

ELECTRONIC INDUSTRIES

1958 DIRECTORY & ALL-REFERENCE ISSUE (16th Edition)

Includes:

- Latest U. S. & Foreign Transistor Specs
- International Specs for Semiconductor Diodes
- Russian Electronic Abstracts 1957-58
- Guided Missile & Military Procurement
- Roster of Electronic Associations
- Electronic Component Color Codes
- New Electronic Standards 1957-58
- Statistics of the Electronic Industries
- New Vacuum Tube Registrations
- Graphical Symbols for Circuiting
- Coming Events 1958-59

and the complete

**1958-59 ELECTRONIC INDUSTRIES' PRODUCT
AND MANUFACTURERS DIRECTORY**

Complete Contents Pages 1, 2 and 3

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June 1958

A Chilton Publication



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ELECTRONIC INDUSTRIES

Vol. 17, No. 6

June, 1958

WELCOME!

Welcome to the new Electronic Industries Directory and All Reference issue! This is our sixteenth directory edition!

Through the years of publishing we have noted that all directories in the electronic field seemed to be lacking in editorial material that would be of year-round value to the reader. EI editors this year decided to produce a directory and reference issue that would encompass this missing element. Thus many of you will recognize several features in this issue that previously were a part of other issues. The data has of course been brought up to date but the important factor is that all this material is now under one cover for year-round reference.

Particular emphasis in this issue has been placed on semiconductor data. Two separate sections, one on transistors and the other on diodes, have been included. Military and Guided Missile Procurement data, Battery characteristics, Graphical Symbols, Abstracts of Russian technical articles published over the past year, Color Code Charts, are among the many other reference sections that have been included. Complete contents for this issue are listed on the next two pages. Take a peek!

The product directory itself has also been in for extensive processing changes. The data presented in this issue is from the product information data contained in our IBM file on all electronic manufacturers in the U. S. We are still in the process of adding statistical information about each company into this file. We expect the second phase of "automated directory" program to be completed soon and with its completion we believe that we will be in a position to provide our readers with more comprehensive electronic product and marketing information than any other source.

Please examine this issue carefully and send us your reactions. We will greatly appreciate your cooperation. We want suggestions for improvement, subject additions, and even subject omissions. The preparation of reference editorial involves a great deal of time and effort. For this reason we are starting work on the 1959 edition now. Nevertheless we'd like you to tell us what you think of this new concept and how well or poorly we fared in its presentation. **HOLD THIS ISSUE UNTIL JUNE '59.**

Electronic Industries' 1958

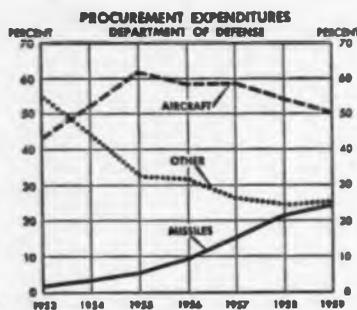
GUIDED MISSILES

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STATISTICS

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DIRECTORY OF THE ELECTRONIC INDUSTRIES—PAGE 211

"BRAND & TRADE NAME INDEX"—More than 5,500 brand and trade names are identified with the firms using them on electronic equipment.

"CONSULTING ENGINEERS"—A listing of individual consulting engineers and consulting firms active in the electronic industry.

"ELECTRONIC MANUFACTURERS"—An alphabetical listing of all electronic equipment and component manufacturers and suppliers to the electronic industries. Includes street addresses and phone numbers.

"ELECTRONIC REPRESENTATIVES"—State-by-state groupings of manufacturers' representatives active in

the electronic industry, and reportedly handling two or more lines.

PRODUCT FINDING INDEX—Quick, easy referencing guide to find the manufacturers of approximately 4,000 electronic products.

"PRODUCT LISTINGS"—Close to 5,000 electronic manufacturers and suppliers to the electronic industry are listed according to the major grouping of their products. From a major breakdown into 101 categories products are further subdivided into 3,800 individual groupings to provide the most accurate differentiation of product lines.

Directory & All-Reference Issue

BUSINESS

1958 Electronic Industries' Statistics—An up-to-date compilation of the significant industry statistics, including:

- Total industry business
- Radio-TV production
- Receiving Tube Production
- Cathode-ray tube production
- Semiconductor market
- Electronic firms by state
- Numbers of firms manufacturing specific products
- Electric power consumption
- Government spending, by category
- Engineering employment
- Engineering education
- Radio-TV service volume

COMING EVENTS

Listing all the major trade and engineering shows planned for the balance of 1958 and during 1959. Information includes dates, sponsoring organizations and location.

COMPONENTS

TRANSISTORS—"1958 Transistor Specification Chart"—The most complete and comprehensive listing of transistors yet made available. Includes all the domestic transistors, with pertinent technical characteristics, case outlines, dimensions and lead arrangements.

DIODES—"1958 Semiconductor diode Specifications"—Over 2,500 semiconductor diodes, all those manufactured in the U.S. plus many foreign makes, are listed in this section, together with their technical specifications, case outlines and dimension.

TUBES—"New Receiving & Special-Purpose Tubes"—During the past 12-month period, from Listing 136 new receiving-type tubes and special-purpose tubes released during the 12-month period, June 1957 to June 1958. Data includes sponsors, types, typical characteristics and intended applications.

EMPLOYMENT

U.S. GOVT. POSITIONS—"Posts, Camps and Stations in the U.S. Requiring E.E.'s"—The U.S. Government has an increasing need for electronic engineers, in a wide variety of positions scattered across the country. Here are a listing of the positions together with starting pay and top salaries to be earned.

GUIDED MISSILES

MISSILE ROUND-UP—Summarizing the experimental and operation missiles in the U.S. arsenal, listed by service and giving pertinent data on the operational characteristics.

MISSILE BUYING—"1958 Guided Missile Directory"—Who is responsible for missile procurement—a listing of the various service's missile procurement offices, with the officers in charge.

MISSILE EMPLOYMENT—"Firms Active on Missile Projects"—For engineers interested in missile work here is a list of the major firms active missile prime-contractors, with the names of the engineering heads and personnel managers.

MISSILE DICTIONARY—"Glossary of Guided Missile Terms"—The missile business has developed a language all its own. Here is a comprehensive list of the terms that missile men are using around the Air Force Missile Test Center, Cape Canaveral.

MATERIALS

SILICON—"Silicon Semiconductor Devices"—Analyzing the process that takes place at the transistor junction, and describing the inherent advantages, and disadvantages, of silicon as a semiconductor material.

MILITARY

MILITARY PROCUREMENT—"1958 Military Procurement Directory"—Listing the major procurement offices of the Army, Navy and Air Force, with the names of the procurement officers, phone numbers, locations and the categories of electronic gear for which they are responsible.

ARMY-NAVY-A.F. NOMENCLATURE—What do the abbreviations mean on military gear? They can be easily determined from this code used by the military. Sample designations are included.

PRODUCTS

PRODUCTS—"Product Highlights of 1957-58"—Significant new products introduced during the past 12 months are listed with their technical specifications, possible applications and a picture of each.

STANDARDS

IRE-EIA-AIEE—"Electronic Industries' Standards"—The three major organizations of the Electronic industry adopted 39 standards during the period Jan. 1957 to June 1958. Descriptions of the standards and their releasing agencies are listed here.

COLOR CODES—The standard IRE-EIA color coding recommended for resistors, capacitors and chassis wiring.

ELECTRONIC SYMBOLS—Summarizing the most significant electronic symbols, grouped by category of application. All are the approved Institute of Radio Engineers standards.

TECHNICAL DATA

COMPANY LITERATURE—"Technical Data for Engineers"—Highlights of the releases of company bulletins, technical data sheets and engineering specifications are summarized here for the past 12 months, with instructions on how to obtain copies.

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MOISTURE PROTECTION

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YOU WANT UNDER THE
TOUGHEST LOAD AND
HUMIDITY CONDITIONS



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SPRAGUE ELECTRIC COMPANY
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TRADEMARK REG.

SPRAGUE COMPONENTS: RESISTORS CAPACITORS MAGNETIC COMPONENTS TRANSISTORS
INTERFERENCE FILTERS PULSE NETWORKS HIGH TEMPERATURE MAGNET WIRE PRINTED CIRCUITS

New Electronic Standards

A listing of the electronic standards issued during the 12-month period, June 1957 to June 1958, by the Electronic Industries Assoc., the Institute of Radio Engineers, and the American Institute of Electrical Engineers.

ELECTRONIC INDUSTRIES ASSOC. (RETMA) STANDARDS

- RS-154-A—Polarized Dry Electrolytic Capacitors for General Use (*Revision of RS-154*), December 1957, \$1.10
- RS-170—Monochrome Television Studio Facilities (*Revision of TR-135*), December 1957, \$1.10
- RS-185—Dimensional and Electrical Characteristics Defining Miniature Receiving Tube Sockets for Printed Circuits, June 1957, \$2.80
- RS-187—Vibrators for Auto Radio (*Revision REC-113-D*), June 1957, \$1.65
- RS-188—Standard Dimensional System for Automation Requirements, June 1957, \$.25
- RS-189—Encoded Color Bar Signals, July 1957, \$.30
- RS-190—Pin Straighteners and Wiring Jigs for Electron Tubes, June 1957, \$.50
- RS-191—Measurement of Direct Interelectrode Capacitance (*Revision ET-109-A*), June 1957, \$1.50
- RS-192—Definition and Dimensional Characteristics of Quartz Crystal Units (*Revision TR-112-A*), July 1957, \$.50
- RS-193—Designation System for Cathode Ray Tubes (*Revision ET-111-A*), July 1957, \$.25
- RS-194—Microwave Relay System Towers, July 1957, \$.40
- RS-195—Mechanical Characteristics for Microwave Relay System Antennas and Passive Reflectors, July 1957, \$.50
- RS-196—Fixed Film Resistors (High Stability), September 1957, \$.60
- RS-197—Power Filter Inductors for Electronic Equipment (*Revision TR-110-B*), September 1957, \$.50
- RS-198—Ceramic Dielectric Capacitors, Classes 1 and 2 (*Revision of REC-107-A*), November 1957, \$.80
- RS-199—Solid Dielectric Transmission Lines (*Revision of TR-143*), December 1957, \$1.20
- RS-200—Circular Waveguides, January 1958, \$.30
- RS-201—Recommended Standard for Export Receivers (*Reaffirmation of REC-112*), November 1957, \$.25
- RS-202—Recommended Practice for Preparation of Outline Drawings of Electron Tubes and Bases (*Revision of ET-102-B*), December 1957, \$1.20
- RS-203—Microwave Transmission Systems, January 1958, \$1.30
- RS-204—Minimum Standards for Land-Mobile Communications, FM or PM Receivers (*Revision of TR-119-A*), January 1958, \$.90
- RS-205—Electrolytic Capacitors for Use Primarily in Transmitters and Electronic Instruments (*Revision of TR-140*), January 1958, \$.80

- RS-206—Recommended Practice for Preparation of Basing or Terminal Diagrams, February 1958, \$.60
- RS-208—Definition and Register, Printed Wiring, February 1958, \$.25
- RS-209—Outlines, Bases and Gauges for Electron Tubes (*Revision of ET-103-D, ET-105-C, and ET-106*), March 1958, \$3.50

INSTITUTE OF RADIO ENGINEERS (IRE) STANDARDS

- 57 IRE 7 S2—IRE Standards on Electron Tubes: Definitions of Terms, 1957 (July '57 Proc.), \$1.00
- 57 IRE 21 S1—IRE Standards on Letter Symbols and Mathematical Signs, 1948 (Reprinted 1957), (Aug. '57 Proc.), \$.60
- 57 IRE 21 S2—IRE Standard on Reference Designations for Electrical and Electronic Equipment, 1957 (Nov. '57 Proc.), \$.70
- 57 IRE 21 S3—IRE Standards on Graphical Symbols for + Semiconductor Devices, 1957 (Dec. '57 Proc.), \$.60
- 58 IRE 23 S1—IRE Standards on Television: Measurement of Luminance Signal Levels, 1958 (Feb. '58 Proc.), \$.60
- 58 IRE 21 S-1—Index to IRE Standards on Definitions of Terms, 1942-1957 (Feb. '58 Proc.), \$1.00
- 58 IRE 14 S1—IRE Standards on Piezoelectric Crystals. Determination of the Elastic, Piezoelectric and Dielectric Constants—The Electromechanical Coupling Factor, 1958 (Apr. '58 Proc.), \$.75
- 58 IRE 28 S1—IRE Standards on Solid-State Devices: Methods of Testing Point-Contact Transistors for Large-Signal Applications, 1958 (May '58 Proc.), \$.70

AMERICAN INSTITUTE OF ELECTRICAL ENGINEERS (AIEE) STANDARDS

- 25—Fuses above 600 Volts (issued Feb. 1958), \$.40
- 62—Guide for Making Dielectric Measurements in the Field (April 1958), \$.50
- 425—Test Code for Transistors, Semiconductor Definitions and Letter Symbols, \$.60
- C37.2—Automatic Station Control, Supervisory & Associated Telemetering Equipment (Oct. 1, 1956), \$.65
- C42.30—Instruments, Meters and Meter Testing (May 1957), \$.60
- C42.95—Miscellaneous (Nov. 1957), \$.40

Definitions of Relay Terms

A comprehensive run-down on the standard terminology applicable to the relay industry, compiled by the National Assoc. of Relay Manufacturers. Includes terms peculiar to relays and terms that have an unusual interpretation when applied to relays.

Air Gap—Sometimes used for Contact Separation or for Magnetic Air Gap.

Ambient Temperature—Ambient temperature is the temperature of the surrounding medium.

Ampere-Turns—The ampere-turns are the product of the number of turns in a magnetic coil and the r.m.s. current in amperes passing through the coil.

Annunciator Relay—An annunciator relay

is a signaling apparatus operated electromagnetically which indicates whether a current is flowing or has flowed in one or more circuits.

Armature—The armature is the hinged or pivoted moving part of the magnetic circuit of an electromagnetic relay. Sometimes used in a general sense to mean any moving part which actuates contacts in response to a change in coil current.

Armature Contact—Sometimes used for Movable Contact.

Armature Ratio—Armature ratio is the distance through which the spring buffer moves divided by the armature travel.

Armature Relay—An armature relay is a relay operated by an electromagnet which, when energized, causes an armature to be attracted to a fixed pole (or poles).

Armature Travel—Armature travel is the total distance traveled during operation by a point on the armature which is nearest the pole-face center when the relay is operated.

Auxiliary Relay—An auxiliary relay is a relay which operates in response to the opening and closing of its operating circuit to assist another relay or device in the performance of a function.

Back Contact—Sometimes used for the stationary contact of single-pole normally closed contacts. (See Contact Nomenclature.)

Back Contacts—Same as Normally Closed Contacts.

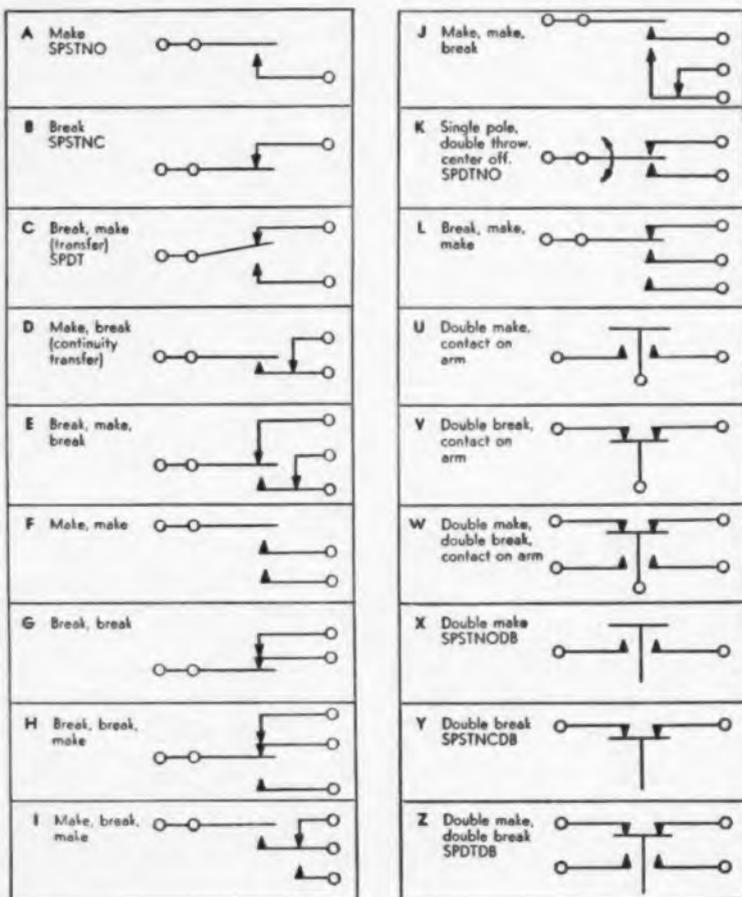
Backstop—The backstop is the part of a relay which limits the movement of the armature away from the pole piece or core.

Bar Relay—A bar relay is a relay so designed that a bar actuates several contacts simultaneously.

Blow-Out Magnet—A blow-out magnet is a permanent magnet or an electromagnet located in such a position as to place a magnetic field in the space where an electric circuit is to be broken. This field causes the arc to be displaced.

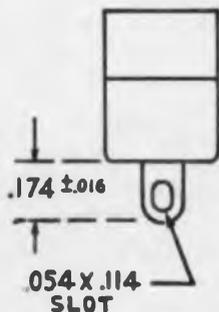
(Continued on page 550)

Fig. 1: Nomenclature of the basic contact forms readily suggests the standard symbols.



CINCH UNIVERSAL EDGE CONNECTORS

...AVAILABLE IN FOUR BASIC
MATERIALS, AND IN ANY
NUMBER OF CONTACTS
FROM 6 THROUGH 25



TYPE 1 CONTACT
SCALE 2 TO 1

24585—15 C-1
G. P. BLACK

After the basic part numbers under the components shown, the number designates the number of contacts. The letters A, B, C, or D, designate melamine, orlon filled diallyl phthalate, General Purpose black or asbestos filled diallyl phthalate respectively. All contacts are phosphor bronze with P-92-3-03 finish (.0003 silver followed by .00003 gold flash).

Type one contact, reproduced here, which takes a standard #20 stranded copper wire for conventional soldering is ready for delivery.

Parts with wire wrap contacts and/or contacts for dip soldering to a printed board will be available for future requirements.

22585—22 B-1
Orlon filled Blue
Diallyl Phthalate
Type M D G

24585—25 A-1
Mineral filled
Melamine 592 or
equivalent
Type M M E

Pre-assembled polarizing key (illustrated) in any connector in any contact position when desired is designated by the last letter of the connector assembly, e.g., 24585-15D-1-T designates a connector

with 15 contact positions with Asbestos filled Diallyl Phthalate insulator body and a polarizing key in contact cavity T, thus there will be only 14 usable contacts.

VOLTAGE BREAKDOWN

Sea level
50,000 Feet

AC-RMS	DC
3000	4500
900	1200

24585—15-D-1-T
(Below Enlarged)
Asbestos filled
Diallyl
Phthalate
Type S D I-5

RECOMMENDED WITHSTANDING VOLTAGE

Sea level
50,000 Feet

2200	3400
700	900

Current Rating

7.5 Amperes

Contact Resistance at Rated Current
Insulation Resistance in Megohms

20 millivolts maximum
Melamine — 10,000
Diallyl — 100,000
G.P. Black — 1,000



Cinch
ELECTRONIC
COMPONENTS

CINCH MANUFACTURING CORPORATION

1026 South Homan Ave., Chicago 24, Illinois

Subsidiary of United-Carr Fastener Corporation, Cambridge, Mass.

Circle 120 on Inquiry Card, page 175

Centrally located plants at Chicago, Illinois; Shelbyville, Indiana; La Puente, California; St. Louis, Missouri.

Amperex® proves
there's room for
extra engineering
even in standard
replacement tubes!

The hard core of the Amperex line has always been a group of electrically unique "proprietary" types, available from no other manufacturer. However, the Amperex name has come to mean concrete engineering benefits even in standard communications and industrial tubes, above and beyond plug-in interchangeability. Thanks to a manufacturing philosophy of untiring perfectionism — combined with the most recent techniques of production, quality control and applications research — the Amperex replacement tubes shown here offer tighter tolerances, greater uniformity, extra ruggedness in critical applications, plus remarkable freedom from common defects and failures: in short, an extra dimension of quality.



for example
here's what happens
when Amperex combines
ultramodern production
techniques
with uncompromising
manufacturing integrity
to make
a standard replacement
tube better...

Amperex
C3J/5632 THYRATRON

with these **Amperex** extras!

- 1 hard glass envelope
- 2 rigid anode connection
- 3 rugged grid cylinder
- 4 anti grid-emission slot
- 5 heat shield prevents excessive grid temperatures
- 6 reinforced cathode with special emitting material
- 7 ceramic insulators
- 8 heavy leads allow high peak-currents
- 9 highly effective getter
- 10 rugged powder-glass base
- 11 8 supports give mechanical strength

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ponents, 11-19 Brentcliffe Road, Leaside,
Toronto 17.

other **Amperex**
replacement tubes with
extra engineering:



ask your distributor about
Amperex replacement
tubes with extra engineering
for industrial and communications applications



Amperex 6146

DIODE RECTIFIER
500V 1000mA



Amperex 4X500A

50 THYRATRON



Amperex C3JA/9864

THYRATRON

(same as C3J/5632 above,
but with increased inverse
peak voltage rating)

Printed Circuit Glossary

Base. The base is the insulating support for the printed pattern.

Base plate. See "Base."

Bond strength. Bond strength is a measure of the force required to separate a layer of material from an adjoining surface.

Chemically deposited printed circuit. A chemically deposited printed circuit is a printed circuit formed on a base by the reaction of chemicals in the absence of an applied electrical field.

Chemically reduced printed circuit. A chemically reduced printed circuit is a printed circuit formed by the chemical reduction of a metallic compound.

Conductive pattern. A conductive pattern is a design formed of any conductive material.

Conductor pattern. A conductor pattern is a conductive pattern having low electrical resistance.

Current-carrying capacity. Current-carrying capacity is the maximum current which can be continuously carried without causing degradation of electrical or mechanical properties of the printed-circuit board, or attached temperature-sensitive component parts.

Definition. Definition is the fidelity of reproduction in the conductor relative to the original master drawing.

Dip soldering. A dip soldering is a technique whereby printed-circuit boards are immersed in, or floated on the surface of, molten solder for the purpose of simultaneously soldering component parts to printed wiring.

Embossed-foil printed circuit. An embossed-foil printed circuit is a printed circuit formed by embossing.

Embossing. Embossing is a process consisting of indenting a metal foil into an insulating base, and mechanically removing the unwanted raised portions.

Etchant. The etchant is the solvent used to dissolve the unwanted portion of a layer of material bonded to a base.

Etched printed circuit. An etched printed circuit is a printed circuit formed by etching.

Etching. Etching is a process consisting of chemical, or chemical and electrolytic, removal of the unwanted portion of a layer of material bonded to a base.

Flush printed circuit. A flush printed circuit is a printed circuit in which the outer surface of the reproduced conductive pattern is in the same plane as the outer surface of the insulating base.

Indexing holes. Indexing holes are holes placed in a printed-circuit base to enable the base to be positioned accurately.

Indexing notch. An indexing notch is a notch placed in the edge of a printed-circuit base to enable the base to be positioned accurately.

Interface connection. An interface connection is a conductor which connects conductive patterns on opposite sides of a printed-circuit base.

Jumper. A jumper is a point-to-point electrical connection made by hookup wire where the connection cannot be made in the printed circuit.

Master drawing. A master drawing is a drawing showing the dimensional limits applicable to any or all parts of a printed circuit, including the base. It is reproduced as necessary for use in preparing the master pattern.

Master pattern. A master pattern is an accurately constructed scaled pattern which is reproduced as necessary for use in producing the printed circuit within the accuracy specified in the master drawing.

Metal-clad base material. Metal-clad base material is a laminate which consists of metallic material bonded to one or both surfaces of an insulating base.

Nonconductive pattern. A nonconductive pattern is a design formed by holes and nonconductive material such as capacitor dielectric.

Painted printed circuit. A painted printed circuit is a printed circuit formed by application of a material in the form of a liquid or particles suspended in a liquid vehicle.

Pinholes. Pinholes are small holes occurring as imperfections in the conductive pattern.

Plated printed circuit. A plated printed circuit is a printed circuit formed by plating.

Plated-through interface connection. A plated-through interface connection is an interface connection formed by the electrodeposition of metal on the sides of a hole in the base.

Plating. Plating is a process consisting of electrodeposition of a pattern on a base.

Prefabricated circuit. See "Printed circuit."

Pressed-powder printed circuit. A pressed-powder printed circuit is a printed circuit formed from particles by application of pressure, or heat and pressure.

Printed circuit. A printed circuit is a pattern comprising component parts, wiring, or a combination thereof, all formed in predetermined design in, or attached to the surface or surfaces of, a common base.

Printed-circuit assembly. A printed-circuit assembly is a printed-circuit board on which separable component parts have been added.

Printed-circuit board. A printed-circuit board is an individual separate, printed circuit on a base, completely processed as far as the printed portion is concerned.

Printed-component assembly. A printed-component assembly is a printed circuit in which the printed portion consists primarily of printed component parts.

Printed component part. A printed component part is a printed circuit, or a portion, thereof, intended primarily to provide an electrical or magnetic function, or both, other than point-to-point connections or shielding, e.g. printed inductor, printed resistor, printed capacitor, printed transmission line, etc.

Printed contact. A printed contact is that portion of a printed circuit used to connect the circuit to a plug-in receptacle and perform the function of a pin in a male plug.

Printed wiring. Printed wiring is a printed circuit, or a portion thereof, intended primarily to provide point-to-point electrical connections or shielding.

Printed-wiring assembly. A printed-wiring assembly is a printed circuit in which the printed portion consists primarily of printed wiring.

Printing. Printing is the reproduction of a pattern on a surface by any process.

Processed circuit. See "Printed circuit."

Reconstituted conductive material. Reconstituted conductive material is conductive material formed from finely divided particles.

Register. Register is the relative position of one or more printed-circuit patterns, or portions thereof, with respect to their desired locations on a printed-circuit base or to another pattern on the opposite side of the base.

Resist. Resist is a material (ink, paint, metallic plating etc.) used to protect the desired portions of the printed circuit from the action of the etchant.

Separable component part. A separable component part is a replaceable component part, the body of which is not chemically bonded to the printed-circuit board, excluding the effects of protective coatings, solder, and potting materials.

Solderability. Solderability is the capability of a printed conductive pattern to be wet by solder.

Sprayed printed circuit. A sprayed printed circuit is a printed circuit formed by spraying.

Spraying. Spraying is a process consisting of spraying particles in molten or in gaseous form onto an insulating base.

Stamped printed circuit. A stamped printed circuit is a printed circuit formed by die stamping.

Stamping. Stamping is a process consisting of die stamping and cutting of foil or film.

Tab. See "Printed contact."

Terminal area. A terminal area is a portion of a printed circuit used for making electrical connections to the conductive pattern, such as the enlarged portion of conductor material surrounding a component-mounting hole.

Transferred printed circuit. A transferred printed circuit is a printed circuit in which the pattern is formed on a temporary base and transferred to a permanent base.

Undercut. Undercut is the reduction of the cross section of a metal-foil conductor caused by the etchant removing metal from under the edge of the resist.

Vapor-deposited printed circuit. A vapor-deposited printed circuit is a printed circuit formed by vapor depositing.

Vapor depositing. Vapor depositing is a process consisting of condensation of a material from its gaseous state onto an insulating base.

Wiring pattern. See "Conductor pattern."

This "Printed Circuit Glossary" was taken from Standard MIL-STD-429

**Thunder
of a
1,500 mile
thrust...**

THOR



Preserver of Peace ...

Official U.S. Air Force Photo

The very heavens shake with the thunder of some 135,000 horses as Thor streaks across the sky at 10 times the speed of sound. Designed by Douglas Aircraft to deliver total destruction to targets as far away as 1,500 miles, Thor represents the Air Force's

striking arm where ground objectives are concerned. For this surface-to-surface intermediate range ballistic missile, with its inertial guidance system, RCA has developed and is supplying electronic units to help Thor declare its mission: the prevention of war.



TM&©

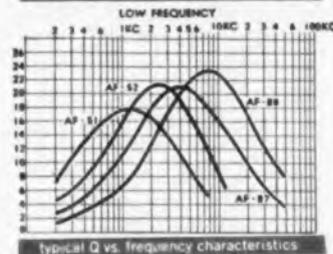
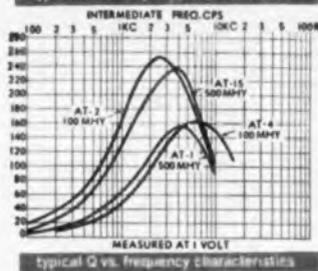
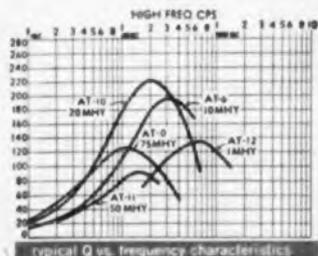
RADIO CORPORATION of AMERICA

DEFENSE ELECTRONIC PRODUCTS

CAMDEN, NEW JERSEY

**AND NOW
FULLY
ENCAPSULATED!**

**NEW
SUBMINIATURE
BURNELL
ADJUSTOROID^{*}
HANDLE BIG JOBS**



*PAT. 2,782,000

The new subminiature Burnell Adjustoroids utilizing an ingenious patented method of magnetic biasing cover a wide range of frequencies, occupy less space and are available at low cost.

New Burnell Adjustoroids possess all the outstanding characteristics of non-adjustable toroids including:

Precise continuous adjustment of inductance over a 10% range. No need for external control current.

Hermetic sealing to meet Government MIL E # 15305-A specifications.

If your Adjustoroid needs can't be met from our stock catalogue, we'll be glad to manufacture to your specifications.

	Length/ Dia.	Width	Hgt.	Wt.	Useful Freq. Range	Max Q	Max L in hys
AT-0	1 1/8"		1"	2 oz	1 kc to 20 kc	10 kc	3 hys
AT-1	1 3/8"	1 3/4"	1 1/4"	7.25 oz	2 kc to 10 kc	4 kc	15 hys
AT-2	2 3/8"	2 3/4"	2 1/4"	24 oz	Below 2.5 kc	2.5 kc	125 hys
AT-4	1 1/8"		1 1/4"	4 oz	1 kc to 16 kc	6 kc	15 hys
AT-6	1 1/8"		1"	2 oz	10 kc to 100 kc	30 kc	.75 hys
AT-10	1 1/8"		1 1/4"	4 oz	3 kc to 50 kc	20 kc	.75 hys
AT-11	4/8"	4/8"	3/4"	.83 oz	2 kc to 25 kc	15 kc	.5 hys
AT-12	4/8"	4/8"	3/4"	.83 oz	15 kc to 150 kc	60 kc	.5 hys
AT-15	1 1/8"		1 1/2"	14 oz	Below 5 kc	4 kc	125 hys
AF-51	1 1/8"		2"	5 oz	30 cps to 500 cps	120 cps	1000 hys
AF-52	1 1/8"		2"	5 oz	50 cps to 1 kc	250 cps	1000 hys
AF-87	4/8"	4/8"	1 1/4"	1.7 oz	90 cps to 2 kc	400 cps	80 hys
AF-88	4/8"	4/8"	1 1/4"	1.7 oz	16 kc to 4 kc	800 cps	42 hys

Burnell & Co., Inc.

PIONEERS IN TOROIDS, FILTERS AND RELATED NETWORKS

EASTERN DIVISION
10 PELHAM PARKWAY
PELHAM, N. Y.
PELHAM 8-5000
TELETYPE: PELHAM 3633



PACIFIC DIVISION
720 MISSION STREET
SOUTH PASADENA, CALIFORNIA
RYAN 1-2841
TELETYPE: PASACAL 7578

Dept. 1-6

NEW G-E MILITARY



SHOWN ACTUAL SIZE. The 7077 is so small (only .44" long and .48" wide) that the tube can be used in compact circuitry or miniaturized equipment.

Advanced UHF systems had critical need for this tube in radar, communications, navigation, General Electric designed and built it.



CERAMIC TUBES MEAN GENERAL ELECTRIC! A G-E technician is weighing the ceramic spacers of the 7077 triode before firing, to check their density—one of a whole series of special methods developed by General Electric to make practical the use...in tubes...of tough, heat-resistant ceramics.



CATHODE ASSEMBLY BY MICROSCOPE! The G-E production worker above is welding the nickel cap on a tantalum cathode sleeve only 1/10 inch in diameter. Note the white Dacron lint-free dress and rubber finger cots! These help protect 7077's from dust and lint—the most common causes of short-circuits.



ONLY ITS COUNTERPARTS CAN NOISE-TEST A 7077! Evidence of Type 7077's low-noise, high-gain performance, is the use of five more of these General Electric triodes in a specially-developed multi-stage test amplifier that provides 90 db total gain. *Every 7077 built* receives this noise test!

7077 TRIODE TOPS ALL TUBES IN UHF-AMPLIFIER ADVANTAGES!

- High gain: 14.5 db
- Low noise: 5.5 db
- Low capacitance
- Low inductance
- Low power input
- Light weight
- Small size
- Ceramic ruggedness

This low-price tube is in regular production now. Compare the 7077 with other tubes A and B, which you can obtain for efficient high-gain, low-noise amplifier service at 450 megacycles! (See chart at right)

	7077	Tube "A"	Tube "B"
PRICE	\$\$	\$\$\$\$\$	\$\$\$\$\$\$
RELATIVE SIZE			
WEIGHT	16 grams	45 grams	23 grams
POWER INPUT	2.5 watts	4.2 watts	13.4 watts

No tube like this existed. The industry asked for a UHF amplifier tube for new and critical military applications in radar, communication, and navigation systems. General Electric creative design took it from there. Working with a list of "musts"—such as small size, light weight, top performance, and initial and operating economy—General Electric tube engineers developed new materials and processes that made possible new design approaches.

Now the 7077 is ready—electrically, mechanically and life-tested—coming from a factory in volume production. It meets full design specifications for performance. The 7077 is built for rugged operation up to 100,000 feet altitude, and up to 300 C envelope temperature. No forced-air cooling is required.

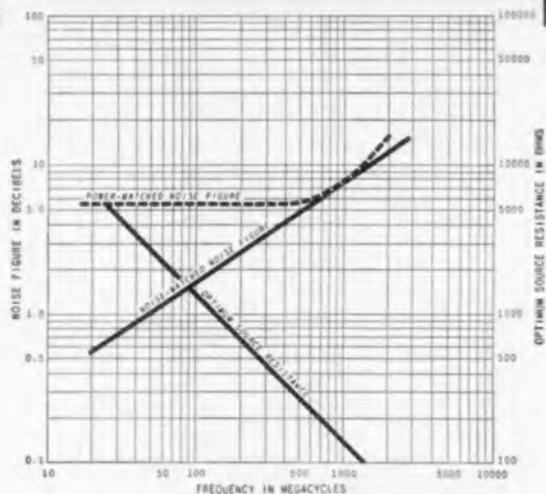
Phone your nearest General Electric Receiving Tube Department office listed below for further information about this newest, smallest, best-performing UHF triode... including the low price.

EASTERN REGION 200 Main Ave., Clifton, N.J. Phones: (Clifton) GRegory 3-6387 (N.Y.C.) WI. 7-4065, 6, 7, 8	CENTRAL REGION 3800 N. Milwaukee Ave. Chicago 41, Illinois Phone: SPring 7-1600	WESTERN REGION 11840 W. Olympic Blvd. Los Angeles 64, Cal. Phones: GRanite 9-7765 BRadshaw 2-8566
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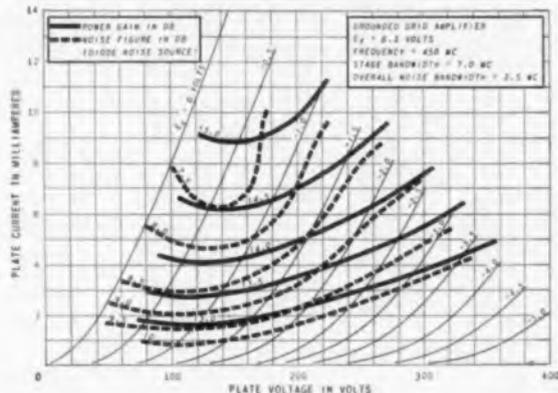
Progress Is Our Most Important Product

GENERAL ELECTRIC

12-11-203



Wide range of 7077 performance, 30 to 1,000 mc, is shown by the noise figures above, under power-matched and noise-matched conditions, using an argon noise source. Noise contours are similar to those below with a diode noise source. Contours below plot noise figure and gain for 450 megacycles at various tube operating points.



1957-1958 Statistics of the

1958 ELECTRONIC MARKETS

Consumer Goods	\$ 4,500,000,000
Military & Government	4,500,000,000
Industrial	1,300,000,000
Commercial Communications	150,000,000
	<hr/>
	\$10,450,000,000

ANNUAL BILL OF U. S. FOR RADIO-TV 1957

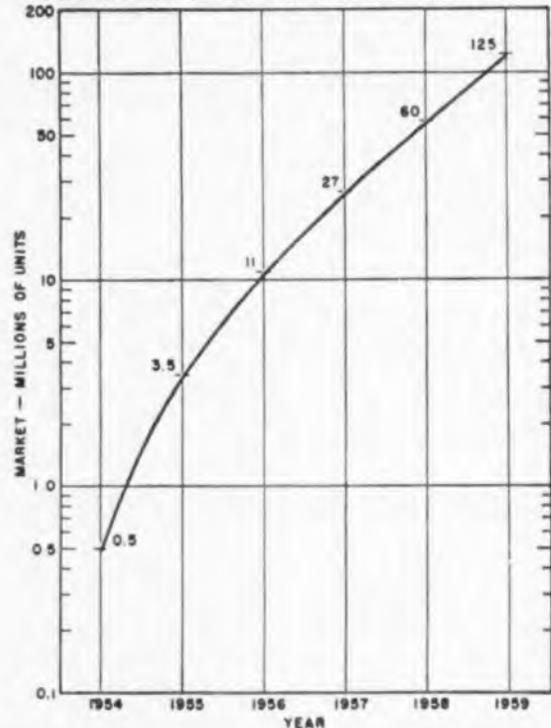
Sale of Time by Broadcasters	\$1,925,000,000
Electricity, Batteries, etc., to operate 193,400,000 Radio & TV Receivers	804,000,000
15,500,000 Radio Sets, at Retail Value	603,000,000
6,500,000 Television Sets, at Retail Value	1,270,000,000
Hi-Fidelity Audio	190,000,000
Phono Records, 300,000,000 at Retail Value	380,000,000
Radio-TV Servicing and Installation (Retail Value): 182 Million Replacement Receiving Tubes	310,000,000
6.3 Million Replacement TV Picture Tubes	230,000,000
Radio-TV Component Parts, Antennas, Accessories	760,000,000
Labor	1,100,000,000
	<hr/>
TOTAL	\$17,572,000,000

SERVICE

During 1957 the annual retail bill for servicing of home electronic appliances is summarized:

102,000,000 replacement receiving tubes	\$ 310,000,000
6,300,000 replacement picture tubes (includes Rebuilds)	230,000,000
Antennas, components, parts, instruments	760,000,000
Labor	1,100,000,000
	<hr/>
Total servicing bill	\$2,400,000,000

PROJECTED TOTAL TRANSISTOR MARKET



"The Transistor Market in the United States" prepared for Philco Corp., Lansdale Tube Co., Div., by Stanford Research Inst.

U. S. PRODUCTION OF RADIO SETS—1922 TO 1957

Year	Total Radio Sets Manufactured		Total Receiving Tubes* Manufactured		Automobile Sets Manufactured		Auto Sets In Use	Homes with Radio Sets	Total Radio Sets In Use in U. S.
	Number	Retail Value \$	Number	Retail Value \$	Number	Retail Value \$	Number	Number	Number
1922	100,000	\$ 1,000,000	1,000,000	\$ 6,000,000				200,000	400,000
1923	850,000	20,000,000	4,800,000	12,000,000				1,000,000	1,100,000
1924	1,500,000	100,000,000	12,000,000	30,000,000				2,500,000	3,000,000
1925	2,000,000	180,000,000	20,000,000	40,000,000				3,500,000	4,000,000
1926	1,750,000	200,000,000	30,000,000	60,000,000				8,000,000	8,700,000
1927	1,350,000	150,000,000	41,200,000	67,300,000				6,900,000	7,100,000
1928	3,281,000	400,000,000	59,200,000	110,250,000				7,900,000	8,500,000
1929	4,428,000	600,000,000	89,000,000	172,500,000				9,000,000	10,000,000
1930	3,827,000	300,000,000	82,000,000	110,000,000				12,000,000	13,000,000
1931	3,420,000	220,000,000	83,000,000	69,550,000				14,000,000	16,000,000
1932	3,000,000	180,000,000	44,300,000	48,730,000	34,000	\$ 3,000,000	100,000	18,000,542	18,000,000
1933	3,000,000	180,000,000	50,000,000	48,000,000	100,000	8,940,000	250,000	20,402,300	22,000,000
1934	4,084,000	214,000,000	58,000,000	36,000,000	700,000	29,000,000	1,200,000	21,486,000	26,000,000
1935	8,028,000	330,182,480	71,000,000	60,000,000	1,120,000	84,982,500	2,000,000	22,880,000	30,500,000
1936	9,248,000	450,000,000	89,000,000	80,000,000	1,412,000	89,188,000	3,800,000	24,000,000	33,500,000
1937	8,084,700	480,000,000	91,000,000	80,000,000	1,790,000	87,500,000	5,000,000	28,000,000	37,000,000
1938	6,000,000	210,000,000	75,000,000	93,000,000		32,000,000	6,000,000	28,000,000	40,000,000
1939	10,800,000	354,000,000	91,000,000	114,000,000	1,200,000	48,000,000	6,500,000	28,700,000	48,000,000
1940	11,800,000	450,000,000	118,000,000	118,000,000	1,700,000	60,000,000	7,500,000	29,200,000	51,000,000
1941	13,000,000	480,000,000	130,000,000	143,000,000	2,000,000	70,000,000	8,750,000	29,700,000	56,000,000
1942	4,400,000	154,000,000	87,700,000	94,000,000	350,000	12,250,000	9,000,000	30,000,000	80,340,000
1943			17,000,000	18,000,000			8,000,000	32,000,000	90,000,000
1944			22,000,000	25,000,000			7,000,000	33,000,000	97,000,000
1945	500,000	20,000,000	30,000,000	38,000,000			8,000,000	34,000,000	98,000,000
1946	14,000,000	700,000,000	190,000,000	200,000,000	1,200,000	72,000,000	7,000,000	35,000,000	100,000,000
1947	17,000,000	800,000,000	220,000,000	260,000,000	3,200,000	194,000,000	9,000,000	37,000,000	100,000,000
1948	14,000,000	600,000,000	200,000,000	230,000,000	4,100,000	293,000,000	11,000,000	40,000,000	100,000,000
1949	10,000,000	500,000,000	180,000,000	350,000,000	3,500,000	240,000,000	14,000,000	42,000,000	100,000,000
1950	14,800,000	721,000,000	383,000,000	844,000,000	4,700,000	248,000,000	17,000,000	45,000,000	100,000,000
1951	13,000,000	600,000,000	430,000,000	840,000,000	4,800,000	258,000,000	20,000,000	46,000,000	100,000,000
1952	10,000,000	500,000,000	330,000,000	740,000,000	2,700,000	148,000,000	28,000,000	46,000,000	100,000,000
1953	13,400,000	638,000,000	410,000,000	820,000,000	4,800,000	250,000,000	29,000,000	48,000,000	120,000,000
1954	10,000,000	400,000,000	400,000,000	680,000,000	4,300,000	220,000,000	32,000,000	50,000,000	127,000,000
1955	14,400,000	568,000,000	481,000,000	882,000,000	6,900,000	346,000,000	33,700,000	52,000,000	138,700,000
1956	14,980,000	551,000,000	465,000,000	908,000,000	8,000,000	288,000,000	37,500,000	53,200,000	143,000,000
1957	15,900,000	603,000,000	450,000,000	882,000,000	8,800,000	302,000,000	39,800,000	53,400,000	148,400,000
*1958	6,400,000	248,000,000	170,000,000	332,000,000	1,700,000	93,900,000	40,900,000	53,600,000	150,900,000

* Estimated for first six months

Radio-TV-Electronic Industries

VITAL TELEVISION STATISTICS 1946-57

Year	Total TV Sets Manufactured		Receiving Tubes Used in New TV Sets and for Replacements		Total TV Picture Tubes Manufactured		Total AM-FM-TV Receiving Sets Manufactured	TV Stations on the Air	Total TV Sets in Use in U. S.	At Close of Year
	Number	Retail Value	Number	Retail Value	Number	Retail Value				
1946	10,000	\$ 5,000,000	250,000	\$ 568,000	20,000	\$ 1,000,000	14,010,000	8	8,000	1946
1947	250,000	100,000,000	8,500,000	18,900,000	340,000	15,000,000	17,250,000	20	230,000	1947
1948	1,000,000	350,000,000	32,200,000	53,000,000	1,500,000	75,000,000	17,000,000	44	1,000,000	1948
1949	3,000,000	850,000,000	87,000,000	146,000,000	3,500,000	216,000,000	13,000,000	100	3,800,000	1949
1950	7,500,000	2,700,000,000	225,000,000	378,000,000	8,000,000	400,000,000	22,100,000	107	10,500,000	1950
1951	5,800,000	2,100,000,000	161,000,000	270,000,000	6,000,000	300,000,000	18,100,000	106	18,750,000	1951
1952	6,300,000	2,300,000,000	180,000,000	300,000,000	6,500,000	280,000,000	18,300,000	123	21,800,000	1952
1953	7,300,000	1,675,000,000	210,000,000	400,000,000	8,000,000	360,000,000	20,700,000	350	28,000,000	1953
1954	7,300,000	1,278,000,000	215,200,000	409,000,000	10,300,000	450,000,000	17,700,000	415	33,000,000	1954
1955	7,000,000	1,253,600,000	220,000,000	407,000,000	10,800,000	371,000,000	20,000,000	457	30,400,000	1955
1956	7,500,000	1,237,500,000	200,000,000	400,000,000	11,000,000	318,000,000	21,900,000	481	42,300,000	1956
1957	6,500,000	1,270,000,000	175,000,000	371,000,000	10,000,000	340,000,000	22,000,000	519	45,500,000	1957
*1958	2,672,000	458,000,000	64,000,000	135,000,000	3,620,000	123,000,000	10,072,000	543	47,000,000	1958

* Estimated for first six months.

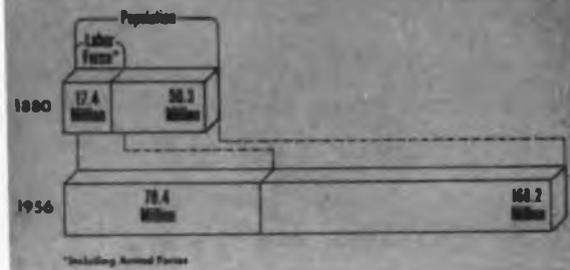
FACTORY SALES 1950-1957

(odd 000,000 dollars)

Year	Consumer Products	Replacement Parts, Tubes, Semiconductors	Industrial Products	Military Products	Total
1950	1,500	250	350	500	2,600
1951	1,400	350	450	1,300	3,500
1952	1,300	400	500	2,200	4,400
1953	1,400	500	600	2,500	5,000
1954	1,400	650	650	2,400	5,100
1955	1,500	750	750	2,500	5,500
1956	1,400	850	950	2,700	5,900
1957	1,500	900	1,300	3,900	7,600

—Electronic Industries Association

GROWTH IN POPULATION AND LABOR FORCE



ELECTRONIC MANUFACTURERS—BY PRODUCT CATEGORY

The 1958 Electronic Industries Directory lists some 4,805 manufacturers. The directory reflects the many products of the electronic industries in 101 major categories. Here broken down are the number of manufacturers reporting products in each.

Amplifiers, Audio	408	Magnetics	250	Photoelectric Equipment	135
Amplifiers, RF-IF	176	Measurement & Test Equipment—Bridges	151	Power Supplies & Converters	431
Amplifiers, Special Purpose	581	Measurement & Test Equipment—Counters	229	Printed Circuits	374
Analizers	262	Measurement & Test Equipment—Decade Boxes	61	Production Machinery & Equipment	421
Amplifiers, Television	77	Measurement & Test Equipment—Generators	242	Radar Devices	198
Antennas, Commercial	294	Measurement & Test Equipment—Monitors	86	Receivers, Communication	228
Antennas, Home	134	Measurement & Test Equipment—Oscillators	209	Receivers, Home	129
Antenna Accessories	309	Measurement & Test Equipment—Oscillographs	83	Receivers—Navigation & Special Purpose	113
Aviation Auxiliary Electronic Equipment	620	Measurement & Test Equipment—Standards	103	Recorders, Audio	115
Batteries, Chargers & Accessories	155	Medical Electronic Equipment	195	Recorders, Special Purpose	223
Cabinets, Racks, Panels & Accessories	356	Metals	542	Recording Accessories	133
Capacitors, Fixed	157	Meters, Audio	113	Rectifiers	142
Capacitors, Variable	79	Meters, Electrical Measurement	279	Relays	293
Chassis Accessories	383	Meters—RF	133	Resistors & Volume Controls	280
Chemicals, Coatings & Related Products	339	Meters, Special Purpose	247	Seals	162
Chokes	243	Microphones	82	Semi-Conductors	56
Coils	480	Microphone Accessories	71	Services, Broadcast	87
Communications Systems	341	Microwave Components	299	Services, Industrial	661
Computers	456	Military Equipment	437	Sound Reproducing Equipment, Disc	165
Connectors & Terminals	545	Military Systems Engineering	370	Sound Reproducing Equipment—Magnetic	102
Control Equipment, Communications	170	Missiles	406	Sound Systems, Intercommunicators & Hearing Aids	234
Control Equipment, Industrial	1047	Mobile Communications Equipment	159	Speakers	73
Crystals, Accessories & Cores	215	Mobile Communications Accessories	197	Speaker Accessories	107
Detectors	233	Motion Picture Equipment	68	Studio Equipment	165
Dials & Front Panel Accessories	254	Motion Picture Equipment Accessories	160	Studio Accessories	96
Filters	365	Motion Picture Film	9	Switches	431
Gages	160	Motors & Generators	329	Testers	370
Hardware	615	Navigation Systems	184	Tools, Hand	167
Headphones	40	Nuclear Products	217	Transformers	455
Indicators	415			Transmitters	238
Industrial Electronic Equipment	416			Transmitter Accessories	111
Insulation Materials & Compounds	357			Tubes	166
Insulators	254			Tube Parts	206
Kits	145			Tuners	117
Lighting Equipment & Accessories	185			Ultrasonics	150
				Wire & Cable	438

PRODUCTION OF PRINCIPAL COMPONENTS USED IN RADIO-TV RECEIVERS

Year	Trans- formers (Iron Core)	Coils	Capacitors (Electrolytic)	Capacitors (Mica)	Capacitors (Ceramic)	Capacitors (Paper)	Resistors (Composi- tion)	Resistors (Wire Wound)	Loud- speakers	Year
1946	49	149	22	69	284	155	477	29	14	1946
1947	70	193	27	84	349	196	608	37	17	1947
1948	46	250	28	86	357	212	654	42	17	1948
1949	39	196	25	74	310	218	670	50	13	1949
1950	65	332	44	106	417	351	1090	70	22	1950
1951	47	288	38	90	394	284	862	59	19	1951
1952	56	305	42	100	433	312	948	67	17	1952
1953	63	323	43	103	455	325	900	69	21	1953
1954	54	276	37	88	390	278	770	59	18	1954
1955	50	274	51	86	378	338	852	41	24	1955
1956	43	283	45	88	423	369	963	35	25	1956
1957	39	272	38	74*	463	267*	934	33	24	1957

* Drop in capacitor production reflects the increased use of printed circuits.
Figures are in millions of units.

ELECTRONIC FIRMS —BY STATES

Headquarters offices by number and
state for the 4,365 electronic manufac-
turers

STATE	NO. OF COMPANIES
Alabama	2
Arizona	10
Arkansas	1
California	687
Colorado	16
Connecticut	238
District of Columbia	18
Delaware	12
Florida	31
Georgia	4
Illinois	556
Indiana	79
Iowa	19
Kansas	6
Kentucky	19
Louisiana	4
Maine	3
Maryland	52
Massachusetts	348
Michigan	96
Minnesota	64
Mississippi	1
Missouri	38
Nebraska	10
Nevada	1
New Hampshire	16
New Jersey	543
New Mexico	3
New York	1,065
North Carolina	26
Ohio	276
Oklahoma	13
Oregon	14
Pennsylvania	323
Rhode Island	41
South Carolina	8
South Dakota	2
Tennessee	13
Texas	39
Utah	5
Vermont	12
Virginia	22
Washington	8
West Virginia	8
Wisconsin	112
Wyoming	3

4,805

INDUSTRIAL ELECTRONIC EQUIPMENT

(in millions of dollars)

Type of Equipment	1954	1955	1956	1957
Electronic Computers	47.0	72.0	100.0	130.0
Broadcast Equipment				
Mobile Radio				
Microwave Relay Equipment	220.0	230.0	260.0	300.0
Marine Equipment				
Aviation Equipment				
Closed Circuit TV	1.0	2.1	3.3	5.0
X-ray Equipment	70.0	80.0	85.0	100.0
Hi-Fi Sound Equipment (except phonos.)	19.0	24.6	35.0	45.0
Laboratory and Service Equipment	110.0	123.0	150.7	190.0
Non Hi-Fi Sound Equipment				
Industrial Controls				
Radiation Equipment	183.0	218.3	316.0	530.0
Electronic Heating Equipment				
Miscellaneous				
Total	650.0	750.0	950.0	1,300.0

—Electronic Industries Association

EIA ENGINEERING STATISTICS

The Engineering Department of the Electronic Industries Assn. provides the following interesting data:

Engineering Department Meetings March 1957 - February 1958

N. Y. Area	Chicago	West Coast	Other	Total
341	27	51	92	511
67%	5%	10%	18%	100%
(1) 181	25	44	53	303
(2) 160	2	7	39	208

(1) Engineering Committee Meetings.
(2) JETEC Committee Meetings.

Location of Member Companies

N. Y. C.	Philadelphia	New England	West Coast	Chicago	All Other	Total
121	19	22	46	64	86	358
34%	5%	6%	13%	18%	24%	100%

There are approximately 2000 individuals involved in about 250 committees. Approximately 50% of EIA Engineering Office activity is devoted to Tube and Semiconductors.

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- EVANOHM®
- #30 ALLOY
- #180 ALLOY
- BALCO®
- TOPHET C®
- CROMIN D®
- #60 ALLOY
- BALLAST NICKEL
- CUPRON®
- MANGANIN
- #90 ALLOY

Glass Sealing

Alloys:

- RODAR®
- NIRON 52
- NIRON 46

Filament and

Grid Alloys:

- COBANIC®
- SYLVALDY®
- MAGNOCARB
- MANGRID®
- PERMOCARB
- MODIFIED HILO®
- PERMAGRID
- CUPROCHROME

Vacuum Tube

Materials:

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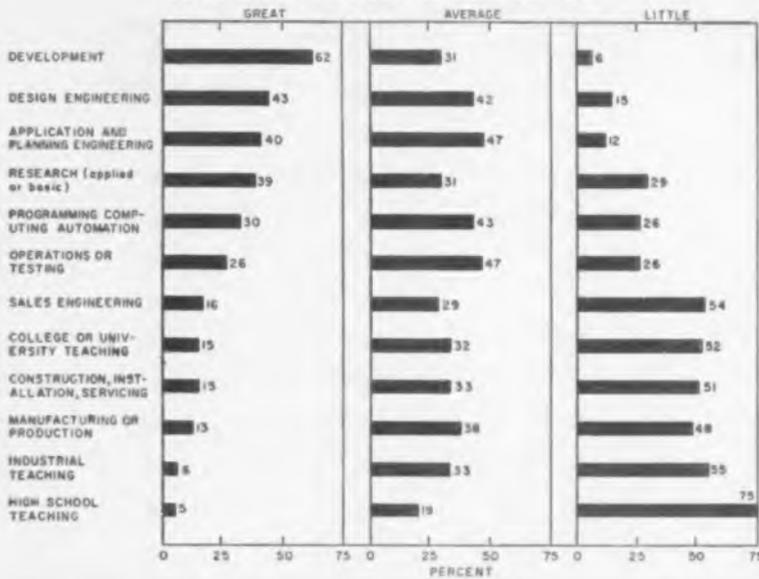
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* Denotes Warehouse

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COLLEGE STUDENTS POSITION PREFERENCE



"Opinions of Electrical Engineering Graduates Regarding Employment Opportunities", Stanford Research Institute. Copyrighted by Eta Kappa Nu Assoc.

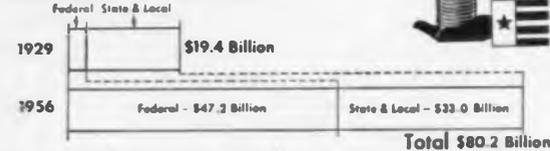
JOBS CREATED

Every 100 Industrial Jobs Create These Additional Jobs.

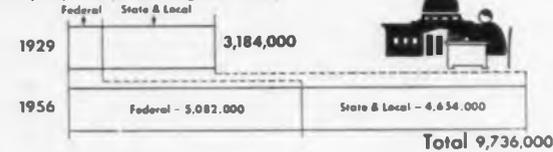
Bus Drivers	0.42
Dressmakers	0.44
Printers	0.22
Architects	0.06
Editors & Reporters	0.25
Technical Engineers	0.14
Dept. Store Clerks	2.5
Bank Clerks	0.66
Beauticians, Barbers	1.0
Electricians	0.22
Florists	0.13
Lawyers & Judges	0.44
Stenographers & Typists	2.2
Policemen	0.57
Miners	2.2
Highway Workers	0.10
Real Estate Agents	0.16
Mechanics, Machinists	2.2
Entertainers	0.13
Plumbers	0.13
Carpenters	2.6
Nurses	1.0
Postmen	0.50
Bakers	0.33
Doctors	0.57
Musicians	0.44
Food Clerks	1.3
Bookkeepers	2.0
Farmers	28.5
Truck Drivers	4.0
Teachers	0.50
Dentists	0.20
Tailors, Furriers	0.40
Firemen	0.30
Gas Station Attendants	0.40
Pharmacists	0.25
Telephone Operators	1.0

GOVERNMENT PURCHASES AND EMPLOYMENT, 1929 and 1956

Purchases (In 1956 Dollars)



Employees (Including Military)

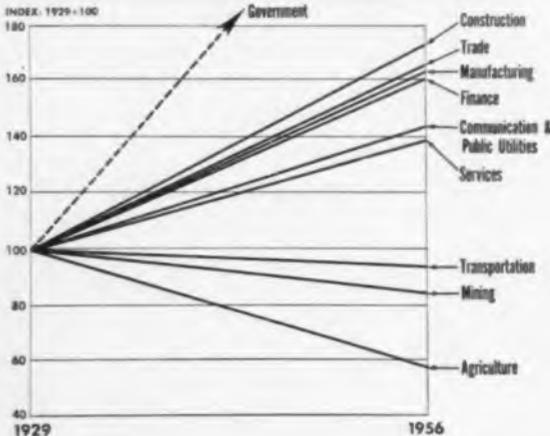


EXPENDITURES ON NEW PLANT & EQUIPMENT—1957

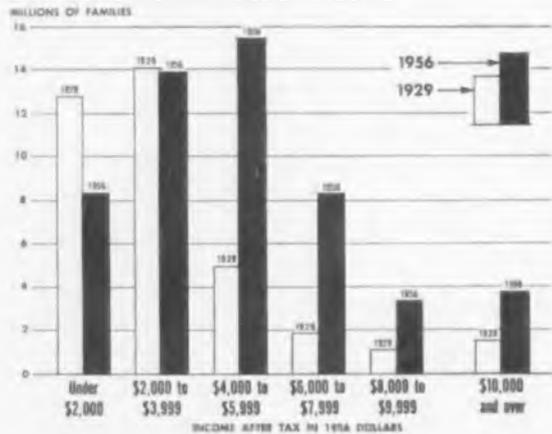
Investor-Owned Electric Companies	\$3,679,000,000
Petroleum and Coal Products	3,453,000,000
Gas Utilities	2,010,000,000
Chemicals and Allied Products	1,724,000,000
Primary Iron and Steel	1,722,000,000
Railroads	1,396,000,000
Food and Beverages	850,000,000
Paper and Allied Products	811,000,000
Stone, Clay and Glass Products	572,000,000
Textile Mill Products	408,000,000
Rubber Products	200,000,000

SOURCES: Survey of Current Business, March, 1958, published by U.S. Department of Commerce. Statistics for investor-owned electric companies from Edison Electric Institute; statistics for gas utilities from American Gas Association.

CHANGES IN EMPLOYMENT BY INDUSTRY GROUPS



DISTRIBUTION OF FAMILIES BY INCOME



GOVERNMENT ELECTRONIC CONTRACT AWARDS

This list classifies and gives the value of electronic equipment selected from contracts awarded by government agencies in April, 1958.

Amplifiers	449,619
Amplifiers, synchro	172,550
Antennas & accessories	215,525
Antenna towers & supports	27,690
Batteries, dry	302,445
Batteries, storage	908,975
Beacon equipment, radar	27,987
Cable assemblies	138,659
Capacitors	25,702
Cavities, tuned	83,300
Circuit breakers	25,120
Coils	26,323
Communication systems	100,000
Computers & accessories	75,184
Computers, airborne	2,608,902
Countermeasures equipment	1,136,234
Dummy loads	48,600
Filters	49,731
Generators, signal	83,750
Gyros	465,434
Handsets	182,671
Headset-microphone	510,844
Indicators	2,463,389
Infrared equipment	61,960
Inverters	626,447
Meters, frequency power	148,416
Meters, volt	26,600
Meters, watt	43,038
Microphones	33,000
Microwave equipment	1,334,993
Monitors	29,850
Multimeters	61,703
Oscillators	31,077
Oscilloscopes	180,483
Potentiometers	52,108
Power supplies	113,561
Power units	35,109
Radar equipment	1,725,442
Radiac equipment	485,749
Radio receivers	30,708
Radio receivers—transmitters	642,566
Radio set controls	38,504
Recorders and accessories	1,119,966
Rectifiers	33,217
Relays	81,386
Resistors	60,691
Semiconductor diodes	29,675
Simulators	99,638
Single sideband equipment	59,430
Sonar equipment	1,213,750
Switches	56,830
Synchros	345,433
Synchro assemblies	52,500
Tape, recording	191,678
Telemetry equipment	266,288
Teletype equipment	44,475
Television equipment	30,214
Test equipment (various)	102,716
Testers	28,063
Test sets	41,393
Tubes, electron	1,149,765
Tuners, r-f	37,171
Voltage regulators	87,025
Wire & cable	1,912,568

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- Barium Nitrate
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- Carbon Tetrachloride
- Ether, Anhydrous
- Hydrogen Peroxide, 3%
- Hydrogen Peroxide, 30%
- Hydrogen Peroxide, 30%
"Stabilized"
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- Strontium Nitrate
- Trichloroethylene



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Government Contract Awards for 1957

The following list classifies and gives the value of electronic equipment selected from contracts awarded by government agencies from January to December 1957. These contract awards appeared in "Synopsis of U. S. Government Proposed Procurement, Sales and Contract Awards," issued daily by the U. S. Department of Commerce. It does not list classified contracts or awards for less than \$25,000.

Air Traffic Control	9,156,158	Indicators	13,409,986	Radomes	2,807,396
Accelerometers	36,863	Indicators, Radar	18,968,304	Receivers—Transmitters & Access.	11,145,653
Amplifiers	9,821,581	Insulators	208,812	Recorders & Accessories	3,079,061
Amplifiers, Audio	1,417,206	Intercom. Equipment	393,078	Recorders—Reproducers	3,457,741
Amplifiers, Servo	350,172	Interference Blanter Group	141,089	Rectifiers	391,042
Amplifier Maintenance Parts	1,198,547	Interference Measuring Sets	128,669	Relay Assemblies	436,560
Analizers	986,341	Inverters	1,157,401	Relay Components	48,857
Analizers, Pulse	1,172,316	Isolators	31,558	Relays	2,118,973
Analizers, Spectrum	484,845	Kits, Computer Mod.	391,510	Relays, Solenoid	85,335
Antennas & Accessories	4,998,835	Kit, Radar Installation	120,999	Reproducers	615,762
Antenna Towers & Supports	2,715,266	Kits, Modification	3,786,146	Resistors	625,336
Attenuators	37,618	Kits, Radar Mod.	4,155,716	Semiconductor Diodes	188,948
Battery Chargers	1,507,916	Loudspeakers	68,196	Servo Positioning Mechanism	104,990
Batteries, Dry	13,264,120	Meters	495,429	Signal Comparators	45,194
Batteries, Storage	7,015,998	Meters, Frequency	3,748,575	Simulators, Beacon	1,056,000
Beacons, Radar	49,934	Meter, Frequency-Power	64,246	Simulators, Target	589,619
Beacon Sets, Radio	5,406,561	Meters, Noise & Field	404,422	Sonar Equipment	7,338,429
Beacons, Sonar	1,087,370	Meters, Ohm	185,663	Spare Parts	464,908
Cable Assemblies	1,961,004	Meters, R-F Watt	600,507	Speakers	601,482
Cable Sets, Interconnecting	796,214	Meters, Volt	271,935	Stroboscopes	39,058
Calibrators	514,119	Meters, Watt	178,483	Switches	1,639,621
Capacitors	1,094,857	Microphones	525,899	Switching Assemblies	408,916
Circuit Breakers	208,744	Microwave Equipment	1,682,186	Synchros	1,430,555
Coder—Decoder	1,180,283	Modulators	2,680,287	Tape, Recording	834,570
Coils	215,380	Monitors	840,615	Telemetry Equipment	448,508
Communications Systems	311,531	Multimeters	1,499,742	Teletype Equipment	14,354,066
Computers & Access.	28,202,919	Multiplexers	69,862	Television Equipment	789,064
Computers, Airborne	7,060,492	Networks	180,412	Test Bridges	369,249
Connectors	950,039	Oscillators	442,293	Test Equipment (Various)	4,723,954
Converters	492,175	Oscillographs	403,416	Testers	3,703,961
Co-ordinate Data Equipment	1,701,955	Oscilloscopes	1,464,864	Testers, Tube	445,249
Countermeasures Equip.	583,831	Potentiometers	118,676	Test Sets	4,379,099
Countermeasure Transmitters & Spares	41,479,703	Power Supplies	5,041,396	Test Sets, Electrical	944,949
Crystal Units	891,997	Power Supply, Dynamotor	809,328	Test Sets, Insulation	214,213
Dummy Loads	275,326	Power Units	1,200,003	Test Sets, Radar	4,471,629
Echo Box	325,924	Radar Components & Spares	554,974	Test Sets, Radio	4,770,001
Facsimile Equipment	660,298	Radar Course Generators	154,031	Transformers	773,735
Filters	25,292	Radar Equipment	36,034,425	Transistors	277,229
Filters, R-F	167,300	Radar Jammers	561,760	Transponder Set	35,599
Fire Control Equip.	22,925,082	Radiac Equipment	1,444,020	Tubes, Electron	31,684,602
Frequency Multipliers	68,418	Radiation Measuring, Solar	37,758	Tuners, R-F	158,938
Frequency Standards	211,844	Radio Direction Finders	2,927,733	Vibrators	59,955
Fuses	36,410	Radio Equipment	245,921	Waveguide & Accessories	196,817
Galvanometers	149,150	Radio Receivers	9,009,571	Wavemeters	27,869
Generators, Signal	6,663,188	Radio Receivers—Transmitters	55,594,450	Wire & Cable	16,934,251
Gyros	141,205	Radio Set Controls	608,717	X-Ray Equipment	277,184
Hand Sets	186,601	Radio Sets	39,130,484		
Headsets	1,221,942	Radio Transceivers	1,380,115		
Handsets—Headset	1,248,692	Radio Transmitters	15,961,958		
Identification Sets	617,396	Radiological Equip.	2,089,792		
		Radiosonde Equip.	1,807,784		

Our regular June Contract Awards will be found on page 19.

Coming Events for 1958 and 1959

A listing of meetings, conferences, shows, etc., occurring during the balance of 1958 and 1959 that are of special interest to electronic engineers.

June 1-4: Convention and Exhibit, Institute of Appliance Manufacturers; at Cincinnati, O.

June 2-4: National Telemetering Conference. IAS, AIEE, ARS; Lord Baltimore Hotel, Baltimore, Md.

June 4-6: Annual Convention and Exhibit, Armed Forces Communications Show & Electronics Ass'n; Sheraton-Park Hotel, Washington, D. C.

June 5-6: 2nd National Symposium on Production Techniques, IRE; Hotel New Yorker, N. Y. C.

June 6-8: High Fidelity Show, SW High Fidelity Distributors Association; Shamrock Hilton Hotel, Houston, Tex.

June 8-12: 50th Anniversary Convention, Nat'l Assoc. of Electrical Distributors; San Francisco, Calif.

June 9-12: Materials Handling Conference, ASME; Public Auditorium, Cleveland, O.

June 9-12: Annual Convention, Edison Electric Institute; Boston, Mass.

June 9-13: 50th Anniversary Conv., National Assn. of Electrical Distributors; Civic Auditorium, San Francisco, Calif.

June 9-13: 4th Int'l Automation Exposition; New York Coliseum, N. Y. C.

June 9-13: 6th Annual Technical Writers Institute, Renselear Polytechnic Institute; Troy, N. Y.

June 10-12: 7th Annual Convention, Nat'l Community TV Ass'n; Mayflower Hotel, Washington, D. C.

June 11-13: 13th Nat'l Meeting, Assoc. for Computing Machinery, Ass'n for Computing Machinery; University of Illinois, Urbana, Ill.

June 11-14: Annual Meeting, Nat'l Society of Professional Engineers; Chase Hotel, St. Louis, Mo.

June 12-14: American Institute of Industrial Engineers 9th Annual Conv.; at Hotel Statler, Los Angeles.

June 15-19: Semi-Annual Meeting, ASME (co-sponsor); Statler Hotel, Detroit, Mich.

June 16-18: 2nd National Convention on Military Electronics, IRE; Sheraton-Park Hotel, Wash., D. C.

June 16-20: Symposium on Molecular Structure & Spectroscopy, Ohio State University; Columbus, O.

June 18-20: Statistical Methods in Radio Wave Propagation, at Univ. of Calif.; Los Angeles, Calif.

June 19-21: 1958 Heat Transfer & Fluid Mechanics Institute, Institute of Aeronautical Sciences; University of Calif., Berkeley, Calif.

June 20-26: Radio Components Exhibition, French EIA, Parc des Expositions; Porte Versailles, Paris, France.

June 22-27: 61st Annual Meeting & Apparatus Exhibit, American Soc. for Testing Materials; Hotel Statler, Boston, Mass.

June 22-27: Summer Meeting, American Institute of Electrical Engrs.; Buffalo, N. Y.

June 22-27: Summer General Meeting, ASME; Statler Hotel, Detroit, Mich.

June 26-27: SPI Midwest Section Conference, French Lick-Sheraton Hotel; French Lick, Ind.

July 16-18: 9th Annual National Conf., Forestry, Conservation Communication Assn.; Parker House, Boston, Mass.

July 21-24: Music Industry Convention & Trade Show, Nat'l Assoc. of Music Merchants; Palmer House Hotel, Chicago, Ill.

July 26-29: National Audio-Visual Convention & Exhibit, Nat'l Audio-Visual Ass'n; Morrison Hotel, Chicago, Ill.

July 29-31: Photographic Instrumentation Engineers Symposium, Statler Hotel, Los Angeles, Calif.

Aug. 6-8: Special Technical Conference on Non-Linear Magnetics & Magnetic Amplifiers, AIEE & IRE; Hotel Statler, Los Angeles, Calif.

Aug. 13-15: Conference on Electronic Standards of Measurements, NBS, IRE & AIEE, NBS Boulder Labs; Boulder, Colo.

Aug. 15-17: National Convention, ARRL; Washington, D. C.

(Continued on page 24)

Events occurring in 1959

Jan 12-14-'59: 5th National Symposium on Reliability & Quality Control, IRE, AIEE, ASQC & EIA; Bellevue-Stratford Hotel, Phila., Pa.

Feb. 2-4: 7th Regional Technical Conference & Trade Show, IRE, Univ. of New Mexico, Albuquerque, N. M.

Feb. 2-5: 14th SPI Reinforced Plastics Division Conference, SPI; Edgewater Beach Hotel, Chicago, Ill.

Feb. 12-13: Transistor & Solid State Circuits Conference, IRE, AIEE & Univ. of Pa.; Univ. of Pa., Philadelphia, Pa.

Mar. 2-6: Western Joint Computer Conf., IRE, AIEE & ACM; at Fairmount Hotel, San Francisco, Calif.

March 23-26: IRE National Convention, IRE; New York City.

Apr. 5-10: 5th Nuclear Congress, IRE & EJC; Cleveland, Ohio.

Apr. 16-18: S. W. IRE Regional Conference & Show; Dallas, Tex.

May 4-6: National Aeronautical Electronics Conference, IRE; Dayton, Ohio.

May 6-8: Electronic Components Conference, IRE, AIEE, EIA; Ben Franklin Hotel, Phila., Pa.

Aug. 18-21: WESCON Meeting & Exhibits, IRE & WCEMA; at San Francisco, Calif.

Oct. 26-28: East Coast Aeronautical & Navigational Conf., IRE; at Baltimore, Md.

Oct. 12-14: National Electronics Conf., IRE, AIEE, EIA & SMPTE; at Hotel Sherman, Chicago, Ill.

Nov. 9-11: Radio Fall Meeting, IRE & EIA; at Syracuse, N. Y.

Nov. 30-Dec. 3: Eastern Joint Computer Conf., IRE, AIEE & ACM; at Hotel Statler, Boston, Mass.

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T-SERIES Germanium Transistor Plug-in Circuits

Low-cost, extremely compact units for -45°C to $+65^{\circ}\text{C}$ environment. A complete family of proven 250-kc circuits, including dc and pulse logic circuits, packaged for high-density mounting (1 square inch or $2\frac{1}{4}$ cubic inches per container). Higher frequency circuits also available. Typical 300-kc RS Flip-Flop, unit price \$26.80 to \$33.15.



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Premium units for -45°C to $+100^{\circ}\text{C}$ environment. Particularly suited for compact, high-temperature-environment military and industrial systems. A complete line of compatible circuits, including dc and pulse logic circuits... the first with hermetically sealed silicon semi-conductors and other components.

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The NEWEST of our NEW products—an indicator incorporating neon or incandescent lamp and transistorized driver circuit, that operates directly from low-level signals, yet occupies no more panel space than a conventional indicator. Input range is controlled by bias voltage. Models available for positive-going or negative-going signals.

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EECO BUILDING BLOCKS

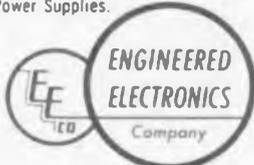
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systems engineering

... Whether you're going the semi-conductor or the vacuum-tube route, EECO has the packaged circuits to make your job an easier and more productive one.

You can concentrate on systems design instead of circuit detail, because every EECO Plug-in Circuit has been tested and proven in advance for you.

While EECO circuits are primarily digital in nature, many types of linear circuits are available. In addition, we stand ready to package your special circuits, both quickly and at low cost.

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Our old warhorse for application in most military and industrial electronic systems is still doing a yeoman job. And a greater variety is available than ever before. More than 325 different types of circuits have been packaged in this container. Our policy of low-cost custom-circuit packaging ensures complete systems compatibility between your special and our standard circuits. Compatible with EECO Systems Development Rack and Single or Dual Power Supplies.

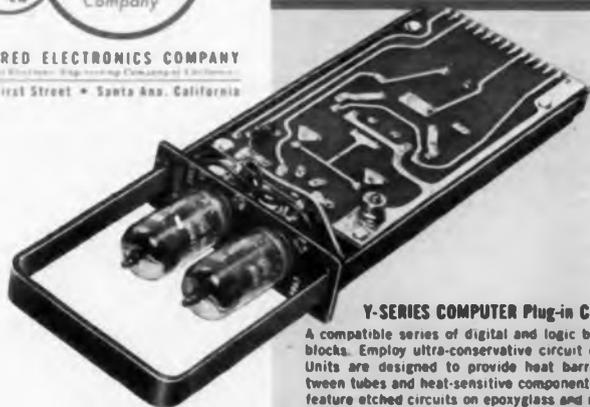
Typical 100-kc T Flip-Flop, unit price \$8.00 to \$11.50



RUGGEDIZED-SERIES Plug-in Circuits

For military and industrial electronic systems where shock, vibration, or temperature are design factors. Pass Mil-E-5272A tests for shock and vibration in -54°C to $+71^{\circ}\text{C}$ environment. Same wide selection of circuits and same packaging service available as in Standard Series. Compatible with EECO Systems Development Rack and Single or Dual Power Supplies.

Typical 1-mc T Flip-Flop, unit price \$14.50 to \$17.75.



Y-SERIES COMPUTER Plug-in Circuits

A compatible series of digital and logic building blocks. Employ ultra-conservative circuit design. Units are designed to provide heat barrier between tubes and heat-sensitive components. They feature etched circuits on epoxyglass and rugged, pin-type connectors. Complete family of proven circuits and diode logic units incorporating "And" and "Or" circuits. Custom diode logic available at no set-up charge.

Typical 4-mc RS Flip-Flop, unit price \$59.95 to \$84.95.

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2- and 4-Gun Tubes**

... exclusive with ETC, give raster areas equal to 7" round tubes.



Plug-in PRE-AMPLIFIERS

Choice of 5 types for each channel. Matches sensitivity and response requirements from 50 mv/cm to 50 μ v/cm, dc to 50 kc to 5 mc. Any combination of pre-amplifiers may be used simultaneously on all channels.



**Plug-in CALI-MARKER®
Calibrator & Time-Mark
Generator**

The first compact, plug-in unit of its kind. Combines a stable, square-wave calibrator and a crystal-controlled time-mark generator. Interchangeable with a second plug-in sweep generator.



Plug-in SWEEP GENERATORS

One or two identical plug-in sweeps may be used on each instrument for common or separate calibrated time bases as needed. Second sweep interchangeable with Cali-Marker.

**Announcing
THE WORLD'S MOST
VERSATILE OSCILLOSCOPES!**

with Plug-ins for All Needed Ranges . . .
All Needed Features . . . No Obsolescence.

**2- and 4-
Channel Types**

Models K-270
and K-470 . . .

Display multiple, high-speed signals without switching. From DC to 5 megacycle bandwidths.

Here is true multi-channel oscillography with features, performance, and prices "tailored" to your exact needs. Versatile plug-in pre-amplifiers, sweeps, and marker-calibrator circuits need be purchased only as you need them . . . when you need them. No worries of having "too much" scope now . . . not enough scope flexibility a few years later.

From simple one-channel monitoring jobs to difficult medical, biophysical and low-level strain gauge recording involving two, three or four channels, you'll find no jobs too small or few too large for these versatile ETC instruments.

Write for detailed specifications and prices.



**electronic tube
CORPORATION**

1200 E. MERMAID LANE • PHILADELPHIA 18, PA.

PIONEERS IN MULTI-GUN C-R TUBES AND MULTI CHANNEL OSCILLOGRAPHY.

(Continued from page 22)

Aug. 19-22: Wescon, IRE & WCEMA, Ambassador Hotel, Pan Pacific Auditorium; Los Angeles, Calif.

Aug. 19-22: Pacific Meeting, American Institute of Electrical Engrs.; Sacramento, Calif.

Aug. 22-24: Annual Convention & Seminar, Nat'l Alliance of TV & Electronics Service Ass'n.; Congress Hotel, Chicago, Ill.

Sept. 2-10: 2nd International Congress on Cybernetics, International Assoc. for Cybernetics; Namur, Belgium.

Sept. 8-10: 1st National Conf. & Exhibit on Application of Electrical Insulation, AIEE, Hotel Pick-Carter, Cleveland, O.

Sept. 8-13: First International Congress, Int'l Congress of the Aeronautical Sciences; Palace Hotel, Madrid, Spain.

Sept. 12-14: 7th Annual Chicago High Fi Show; Palmer House, Chicago, Ill.

Sept. 15-19: 13th Annual Instrument & Automation Conference & Exhibit, Instrument Society of America; Convention Hall, Phila., Pa.

Sept. 16-18: Fall Quarterly Conference, EIA; St. Francis Hotel, San Francisco, Calif.

Sept. 22-24: Symposium & Exhibit on Telemetry & Remote Control, IRE; Americana Hotel, & Patrick AFB, Miami Beach, Fla.

Sept. 24-25: Industrial Electronic Conference, IRE & AIEE; Rackman Memorial Bldg., Detroit, Mich.

Sept. 28-Oct. 2: Fall Meeting, Electrochemical Society; Chateau Laurier, Ottawa, Canada.

Sept. 30-Oct. 4: High Fidelity Show, Institute of High Fidelity Mfrs.; New York, N. Y.

Oct.: Western Regional Conference, Nat'l Community TV Ass'n; Portland, Ore.

Oct. 2: Section Meetings Calendar—Wichita Sect., Institute of Aeronautical Sciences; Innes-Colonial, Room 121 S. Broadway, Wichita, Kans.

Oct. 2: Section Meetings Calendar—Phila. Sect., Institute of Aeronautical Sciences; Penn-Sherwood Hotel, Phila., Pa.

Oct. 8-10: 14th Annual Mtg., Canadian Electrical Manufacturers Assn.; Sheraton Brock Hotel, Niagara Falls, Canada.

Oct. 8-10: Engineering, Writing & Speech Symposium, IRE; New York City.

Oct. 8: Section Meetings Calendar—Los Angeles Sect., Institute of Aeronautical Sciences; IAS Bldg., Los Angeles, Calif.

(Continued on page 28)

BALLANTINE**ELECTRONIC
VOLTMETERS****Famous for
ACCURACY - STABILITY
SENSITIVITY**

Each Ballantine Voltmeter has only one voltage scale, with decade range switching, which provides the same accuracy of reading at all points on the logarithmic voltage scale. A linear decibel scale is also provided for use by acoustical engineers. Each Voltmeter also may be used as a high gain wide band amplifier.

TRUE RMS INDICATION**MODEL 320**

Voltage Range 100 μ v — 320 v
 Frequency Range 5 cps — 500 kc
 Accuracy 3% 15 cps — 150 kc
 5% elsewhere
 Stability of Internal Calibrator 0.5%
 Input Impedance
 10 megs shunted by 18 μ f below 10 mv
 10 megs shunted by 6 μ f above 10 mv

**AUDIO to 250 kc MODEL 300D**

Voltage Range 1 mv — 1000 v
 Frequency Range 10 cps — 250 kc
 Accuracy 2% ENTIRE RANGE
 Input Impedance 2 meg shunted by 15 μ f

DC & AC PRECISION CALIBRATOR MODEL 420

Voltage Range 0-10 v RMS; Pk-to-Pk; or DC
 Frequency (Std. Model) 1 kc
 (other values on special order)
 Accuracy (long term) Better than 0.5% above 1 mv
 Distortion and Hum Less than 0.25%
 Setting Resolution Approaches 0.01% above 10 mv
 Output Impedance (AC) 2-20 ohms depending
 on range setting

**SUB-AUDIO to 150 kc MODEL 302C**

Battery Operated

Voltage Range 100 μ v — 1000 v
 Frequency Range 2 cps — 150 kc
 Accuracy 3% 5 cps — 100 Kc
 5% elsewhere

Input Impedance 2 meg shunted by 10 μ f*

*Shunt capacitance, 25 μ f on two most sensitive ranges**SENSITIVE INVERTER MODEL 700**

For Measuring DC Voltages when combined with any AC Voltmeter

Voltage Range 1 μ v — 100 v DC
 Ratios DC Input to RMS Output 1:100 & 10:1
 Accuracy 1% 100 μ v — 100 v
 Input Resistance >10 meg for 1:100
 50 meg for 10:1

**PEAK-to-PEAK MODEL 305**

Voltage Range 1 mv — 1000 v pk-to-pk
 Frequency Range 10 cps — 100 kc (sine wave)
 Pulse Width 3 μ sec — 250 μ sec
 Min Rep Rate 20 pulses per sec
 Accuracy 5% for pulses
 Input Impedance 2 meg shunted by 8 μ f*

*Shunt capacitance, 15 μ f on two most sensitive ranges**DECADE AMPLIFIER MODEL 220B**

For Increasing the Sensitivity of any AC Voltmeter by 10 or 100 times

Voltage Range 20 μ v — 50 mv
 Frequency Range 10 cps — 150 kc
 Accuracy 2% ENTIRE RANGE
 Input Impedance 5 meg shunted by 15 μ f

**AUDIO to 2 mc MODEL 310A**

Voltage Range 100 μ v — 100 v
 Down to 40 μ v at reduced accuracy
 Frequency Range 10 cps — 2 mc
 As null detector 5 cps — 4 mc
 Accuracy 3% 15 cps — 1 mc
 5% elsewhere

Input Impedance 2 meg shunted by 9 μ f*

*Shunt capacitance, 19 μ f on two most sensitive ranges**DIRECT READING CAPACITANCE METER MODEL 520**

Capacitance Range 0.01 μ f to 12 μ f
 in 9 decade ranges covering over a billion to 1
 Accuracy 2% above 0.1 μ f
 5% below 0.1 μ f
 Capacitor Power Factor 0.15
 Test Frequency 1 kc

**AUDIO to 6 mc MODEL 314**

Voltage Range 1 mv — 1000 v
 (100 μ v — 1 mv without probe)
 Frequency Range 15 cps — 6 mc
 Accuracy 3% 15 cps — 3 mc
 5% elsewhere

Input Impedance 11 meg shunted by 8 μ f
 (1 meg shunted by 25 μ f without probe)



ACCESSORIES are available for all voltmeters to extend voltage measurements down to 20 μ v and up to 10 kv, and to measure currents from 0.1 μ amp to 10 amp, and to provide DC from the Model 300 Voltmeter to drive external recorders or remotely located meters.

INFRASONIC to 30 kc MODEL 316

Voltage Range 20 mv — 200 v pk-to-pk
 Frequency Range 0.05 cps — 30 kc
 (Down to 0.01 cps with correction)
 Accuracy 3% ENTIRE RANGE
 Input Impedance 10 meg shunted by 17 μ f
 or 40 μ f depending on setting



WRITE FOR MORE DETAILED INFORMATION TO—

**BALLANTINE
LABORATORIES, Inc.**

Boonton, New Jersey



FOR BETTER WIRE TERMINATING

AMP TAPER TECHNIQUE



(A) A-MP "53" SERIES TAPER PINS

insulated solid, screw machined or uninsulated formed pins to mate with tapered receptacles. Both types provide noise-free, low resistance electrical characteristics.

(B) A-MP "53" SERIES TAPER BLOCKS

are available in either solid blocks or two piece blocks . . . 10 or 20 cavity series . . . single or dual insert.

(C) A-MP TAPER TAB RECEPTACLES

accommodate flat tabs employing the taper key principle . . . feature standardized tapered section to fit relays, stepping switches, multiple connectors and other electronic components.

(D) A-MP MINIATURE TAPER PIN RECEPTACLES

eliminate tedious and costly operations of soldering leads to miniature connectors . . . use A-MP "37" Series Pins.

Bulletin Number 77

AMP PATCHBOARD TECHNIQUE



A-MP PATCHCORD PROGRAMMING SYSTEMS AND PANELS offer tremendous versatility and flexibility. Exclusive feature of A-MP Systems is wiping action of pins against springs for clean contacts. A-MP Universal Patchcord Programming Systems and Panels are excellent for digital computers, data processing equipment and automatic test equipment. A-MP Shielded Patchcord Programming Systems and Panels are excellent for analog computers, telemetering equipment, test equipment and other low level applications where reliable shielding is required. Patchcords are made in a complete series for all programming requirements.

A-MP "240" SYSTEMS . . . offer complete reprogramming in seconds in airborne applications. The compact "240" System weighs 3¼ pounds and features 240 patchcord receptacles for maximum program combinations. It, too, features the exclusive wiping action to assure optimum electrical contact at all times.

Bulletin Number 58

Information concerning any termination problem will be forwarded on request. For literature on the above products, write, giving bulletin numbers desired, to:

AMP

AMP-Lok MULTIPLE CONNECTORS



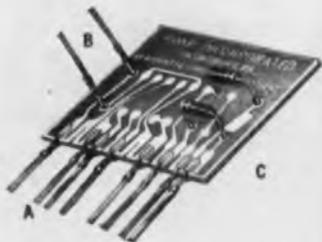
AMP-LOK CONNECTORS . . . are made in 3, 6, 9, or 12 circuit units . . . the most versatile multiple connectors available to the electronics industry. Self anchoring units require no extra mounting parts for through-panel applications. All contacts are identical and self cleaning . . . recessed for safety. Finger grip engagement and disengagement of housing which is polarized to eliminate circuit error. AMP-lok will accommodate a wide range of panel thicknesses . . . may be color coded. AMP-lok may also be used with complete safety as a free hanging multiple connector.

Bulletin Number 45

AMP INCORPORATED
GENERAL OFFICES: HARRISBURG, PENNSYLVANIA

TECHNIQUES . . . SPECIFY **AMP**

PRINTED CIRCUIT TECHNIQUE



(A) AMP-EDGE TERMINALS . . . assure excellent electrical contact with friction grippage and positive wiping action . . . apply easily to any section of the perimeter of the printed circuit board . . . reduce cost of application to wire conductor and to board.

(B) AMPin TERMINALS . . . eliminate loose leads during solder-dip operation . . . promote good capillary action during solder dipping . . . accommodate solid or stranded conductors . . . are self retaining and self-aligning.

(C) AMP COMPONENT TIPS . . . prevent movement of components during solder dipping cycle . . . permit bridging or offsetting of components . . . protect semi-conductor leads from solder dipping heat . . . eliminate need for eyelets and thru-plating on two-sided boards, by excellent solder wicking characteristics and uniform solder deposit.

Bulletin Number 81

SHIELDED WIRE PRODUCTS



(A) TERMASHIELD SHIELDED WIRE FERRULES assure positive grounding of wire shield eliminate solder, danger of burning insulation and uncertain attachment . . . feature one-piece construction . . . accommodate one or more grounding wires

(B) TERMASHIELD SHIELDED WIRE SPLICES join sections of shielded wire so that both the inner conductors and outer shields are firmly spliced with the two effectively insulated. They eliminate multi stage assembly or soldering . . . color coded for matching with application tooling and wire sizes

(C) TERMASHIELD 7MM SHIELDED CABLE FERRULES permanently ground shielded high tension cables . . . prevent wire damage during attachment . . . won't loosen or vibrate to cause poor ground or rf noise . . . remove danger of sparking . . . offer easy four step attachment . . . seat precisely into applicable joints

Bulletin Number 24

TERMINALS AND SPLICES



(A) STRATO-THERM TERMINALS AND SPLICES . . . for high temperature and heat resistant requirements . . . accommodate a wide range of wire sizes either solid or stranded or both . . . with or without fully circumferential wire insulation support as desired.

(B) CERTI-SEAL MOISTURE PROOF WINDOW SPLICES . . . seal out vapors and fluids even at altitude to assure dry splice . . . accommodate over 100 insulation thicknesses . . . resist heavy vibration and shock.

(C) OTHER A-MP TERMINALS AND SPLICES . . . designed for the most diverse circuitry requirements . . . stringently tested for corrosion resistance, vibration resistance, conductivity and long life . . . ideal for all types of electronic equipment.

Bulletin Number 37

A-MP products and engineering assistance are available through wholly-owned subsidiaries in: Canada • England • France • Holland • Japan

Quiggley's

Breakfast

Brainstorm



...or the case of the sub-miniature toroids

Major Quiggley, DC, AC, etc. banged his fist on the table and stared with fascination at the breakfast cereal before him. "Eureka! I've got it!" he bellowed with enthusiasm. "Sub-miniature toroids, just the size of these Cheerios* to solve our limited space problems!"

The major beamed with satisfaction. "Great idea!" he purred. "I'll call B & W and get them to develop it!"

Major Quiggley rushed to the office, put through a call to Barker & Williamson, and rapidly outlined his earth-shaking idea. "It will revolutionize the industry!" he concluded with final triumph.

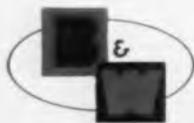
Tactfully, the harassed sales manager explained that B & W had not only been manufacturing toroids the size of Cheerios for many years, but also have available a complete line of sub-miniature as well as larger types. He indicated that many of the toroids were so small that the center hole was only $\frac{1}{16}$ " in diameter! Quiggley sputtered, "You should let a feller know, old chap! Send one of your sales engineers right over!"



Here's What Major Quiggley Learned About Toroids from the B & W Sales Engineer:

- **Sizes**—B & W manufactures a complete range of standard and special toroid coils and related networks.
- **Tolerances**—5% for standard types and as close as 1% for specials.
- **Finishes**—plain—waxed—tape wrapped—encapsulated, or hermetically sealed to MIL-T-27A Specs where required.
- **Delivery**—To meet your requirements in time and quantity.

*Reg. Trademark—General Mills



Barker & Williamson, Inc.

Deaver Dam Rd., Bristol, Pa.

Specialists in Designing and building equipment
To operating specifications

A few other B&W products: I. F. TRANSFORMERS • COMMUNICATIONS EQUIPMENT • AUDIO PHASE SHIFT NETWORKS • TEST EQUIPMENT • and many types of standard and special electronic components and equipment.

(Continued from page 24)

Oct. 8-10: **Canadian IRE Convention Exposition**, IRE; Automotive Bldg., National Exhibition Grounds, Toronto.

Oct. 9: **Section Meetings Calendar—Texas Sect.**, Institute of Aeronautical Sciences; Arlington State College Engineering Auditorium.

Oct. 13-15: **National Electronics Conference**, IRE, AIEE, EIA; Hotel Sherman, Chicago, Ill.

Oct. 14-17: **Midyear Meeting of Recorder-Controller Section**, Scientific Apparatus Makers Ass'n; Seaview Country Club, Absecon, N. J.

Oct. 15: **Section Meeting Calendar—Kansas City Sect.**, Institute of Aeronautical Sciences; American Legion Memorial Bldg., Linwood Blvd. & Paseo, Kansas City.

Oct. 16: **Section Meetings Calendar—Washington, D. C. Sect.**, Institute of Aeronautical Sciences, Davidson Army Air Field, Fort Belvoir, Va.

Oct. 17: **Section Meetings Calendar—Los Angeles Sect.**, Institute of Aeronautical Sciences; IAS Bldg., Los Angeles, Calif.

Oct. 18: **Section Meeting Calendar—New York Sect.**, Institute of Aeronautical Sciences; Sheraton McAlpin Hotel, New York City.

Oct. 19-21: **Midyear Meeting of Laboratory Apparatus & Optical Sections**, Scientific Apparatus Makers Assoc.; Westchester Country Club, Rye, N. Y.

Oct. 19-24: **84th Convention**, Society of Motion Picture & TV Engrs.; Sheraton-Cadillac Hotel, Detroit, Mich.

Oct. 20-22: **4th Annual Symposium Aeronautical Communication**, IRE-Communications Systems; Utica Hotel, Utica, N. Y.

Oct. 27-28: **East Coast Conference on Aeronautical & Navigational Electronics**, IRE-Aeronautical & Navigational Electronics Group; Lord Baltimore Hotel, Baltimore, Md.

Oct. 20-23: **Annual Conference**, Int'l Municipal Signal Ass'n; Sheraton Hotel, Phila., Pa.

Oct. 23-25: **Fall Meeting**, Nat'l Society of Professional Engrs.; San Francisco, Calif.

Oct. 23-25: **Nat'l Simulation Conference**, IRE; Dallas, Texas.

Oct. 26-27: **Fall Meeting**, American Institute of Electrical Engrs.; Pittsburgh, Pa.

Oct. 27-28-29: **Radio Fall Meeting**, EIA; Sheraton Hotel, Rochester, N. Y.

Oct. 27-29: **East Coast Aero & Nav. Electronic Conference**, PGANE; Balt. Sec.; Lord Baltimore Hotel & 7th Reg. Army., Baltimore, Md.

(Continued on page 30)



CLIP...
MAIL...
TODAY...
FOR...



GENERAL CONTROLS
ELECTRONIC CONTROLS DIVISION MM-600

801 ALLEN AVENUE
GLENDALE 1, CALIFORNIA

Please rush my copy of the General Controls Pot Data File

NAME _____

TITLE _____

COMPANY _____

ADDRESS _____

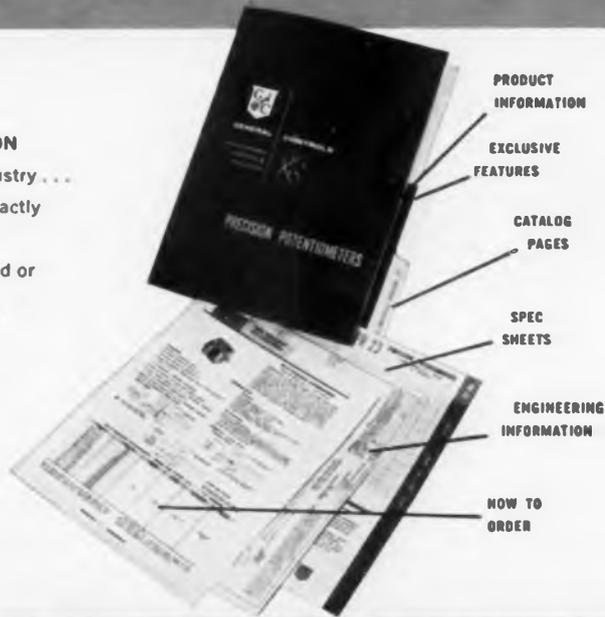
CITY _____ STATE _____

NEW POT DATA FILE

The **MOST COMPLETE** line of **PRECISION POTENTIOMETERS** available to the industry... all from **ONE** source. Shown below is exactly what we mean by a **COMPLETE LINE**. Immediately available... single, ganged or specials as required. Send for data file.



The only pot line that includes Air Tight Seals at no extra cost to keep out dust and moisture.



Now
Even Smaller



New Sub-Miniature Size

FANSTEEL

STA Capacitors
SOLID TANTALUM



Write for M8W Bulletin #113 on
capacitor dimensions and capacitor

CAPACITORS
FANSTEEL
RECTIFIERS

FANSTEEL METALLURGICAL CORPORATION

North Chicago, Illinois, U. S. A.

RELIABLE TANTALUM CAPACITORS SINCE 1930

INDICATORS AND ORDERING REFERENCES

Case Number	Capacity (pF)	Working Voltage (V)	Temp. Coefficient (ppm/°C)
STA-175	5.1	15	15
STA-175	7.5	15	15
STA-175	10	15	15
STA-175	15	15	15
STA-175	22	15	15
STA-175	33	15	15
STA-175	47	15	15
STA-175	68	15	15
STA-175	100	15	15
STA-175	150	15	15
STA-175	220	15	15
STA-175	330	15	15
STA-175	470	15	15
STA-175	680	15	15
STA-175	1000	15	15
STA-175	1500	15	15
STA-175	2200	15	15
STA-175	3300	15	15
STA-175	4700	15	15
STA-175	6800	15	15
STA-175	10000	15	15
STA-175	15000	15	15
STA-175	22000	15	15
STA-175	33000	15	15
STA-175	47000	15	15
STA-175	68000	15	15
STA-175	100000	15	15
STA-175	150000	15	15
STA-175	220000	15	15
STA-175	330000	15	15
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STA-175	6800000000000000000000000000000000</		

AUTOMATION DICTIONARY

ACTION. In the automatic field it refers specifically to control action. It is that which is done to regulate the controlling element in a process or operation. The action ranges from the simple familiar "on" and "off" movements to not so familiar derivative and rate types of action.

ANALOG COMPUTER. An electronic calculating machine which solves problems by translating conditions like flow, temperature, or pressure into electrical quantities.

ATTENUATION. Opposite of "gain" (see "gain").

AUTOMATIC CONTROLLER. A device or instrument which is capable of measuring and regulating anything from color to chemical make-up.

AUTOMATION (auto-MAY-shun). The modern-day engineer's word for the state of being automatic. Once referred to machine tool application, but has come to mean the act or method of making a manufacturing—or processing—system partially or fully automatic.

CAPACITY. No mystery, simply the measure of the maximum amount of a material (or energy) which can be stored.

CLOSED LOOP. A family of automatic control units linked together with a process to form an endless chain. The effects of control action are constantly measured so that if the process goes off the beam, the control units pitch in to bring it back into line.

COMPUTER. A term applied to calculating machines ranging from the Chinese abacus to electronic "brains." In automation, it refers to machines which, once set up, perform a series of individual computations without outside tutoring.

CONTROL AGENT. The middleman, or force, in a control system. Generally means the energy or fuel which is regulated to affect the value of the condition or factor being controlled.

CONTROL MEANS. Part of an automatic control device which makes the corrective action.

CONTROL POINT. The value you actually get as the result of some control action. Oddly enough it may not be just what you were hoping for.

CONTROL SIGNAL. The energy applied to the device which makes corrective changes.

CYBERNETICS (sy-ber-NET-ics) n. A new field of science which attempts to relate the operation of automatic devices to the automatic functioning of the human body's nervous system. Once accomplished, it hopes to evolve a theory blanketing the field of control and communication—both in machines and men.

CYCLING. A rhythmic change of the factor under control at or near the desired value.

DAMPING. A characteristic built into control systems which diminishes the system's natural enthusiasm for making excessive corrections when it detects something gone awry. Not dampening; no water involved.

(Continued on page 32)

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Automation Dictionary

(Continued from page 31)

DATA HANDLING SYSTEM. To the control engineer, automatically-operated equipment engineered to simplify the use and interpretation of the bewildering mass of data gathered by modern instrument installations. Can, for example, automatically handle information fed to it from thousands of widely scattered points in a plant. (Engineers, with their tendency for "two-for-one" terminology, also refer to this as a DATA REDUCTION SYSTEM.)

DEAD BAND. A specific range of values in which the incoming signal can be altered without also changing the outgoing response. Sometimes called "dead zone."

DEAD TIME. Any definite delay between two related actions. It is measured, obviously, in units of time.

DEVIATION. No change from the layman's definition—means the difference between the actual value of a condition and the one at which it is supposed to be controlled.

DIAPHRAGM MOTOR VALVE. A pneumatic-powered valve which regulates fluid flows in response to a pneumatic signal.

DIFFERENTIAL GAP. The difference between two target values, one of which applies to an upswing of conditions, the other to a downswing. In other words suppose the temperature in your office falls and the thermostat is set at 70°F. If the differential gap is 4°, then the temperature will drop to 68°F before the heating system moves into action, raising the temperature to 72°F. Thus, the two degree difference on either side of the 70°F makes up the 4° of differential gap. Clear?

DERIVATIVE ACTION. Control operation in which the speed of a correction is made according to how fast a condition is going off the-beam (same as rate action).

DIGITAL COMPUTER (DID) it all. A calculating machine which counts numbers (digits) rather than quantities as do the analog-style computers. Performs basic arithmetic at speeds in millionths of a second. It can remember the result at one calculation and employ it later to come up with a complete answer.

DISCRETE UNITS. Distinct or individual units. For example, automobile crank shafts or bathtubs would be discrete units as contrasted to petroleum or orange juice, which is produced in one continuous flow.

DYNAMIC BEHAVIOR. Describes how a control system or an individual unit carries on with respect to time.

END-POINT CONTROL. Simply—quality control through continuous, automatic analysis. In highly automatic operations final product is analyzed; if there are any undesirable variations, the controller automatically brings about the necessary changes.

EQUILIBRIUM. For control systems, as for humans, this means balance.

(Continued on page 43)

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TYPES:

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- Transistor • Filter Choke
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ELECTRONIC INDUSTRIES'

1958 Roster of Associations

Serving the Electronic Industries

A listing of the technical, religious and fraternal organizations functioning for the professionally employed in the electronic arts and sciences. Shown are the name of the organization; the number

of members; mailing address; principal officers; date and location of the prime annual meeting; and summary of the aims and objectives of the group.

ACOUSTICAL SOCIETY OF AMERICA—2400 Members—335 E. 45th St., New York, N. Y. MU 5-1940 . . . Richard K. Cook, Pres.; Wallace Waterfall, Sec. . . . Fall Meeting Nov. 20-22 . . . at Chicago, Ill. . . . To disseminate information on the subject of acoustics and to promote practical applications.

AIRCRAFT INDUSTRIES ASSOCIATION OF AMERICA, INC.—145 Members—610 Shoreham Bldg., Washington, D. C. . . . Orvall R. Cook, Pres.; Harrison Brand, Jr., Sec.-Treas. . . . Annual conv. none . . . Concerned with the industry-wide aspects of aeronautical research, development and production.

AMERICAN SOCIETY OF ENGINEERS—8 S. Michigan Ave., Chicago 3, Ill. RA 6-9085 . . . P. J. Lucey, Pres.; M. E. McIver, Nat'l Sec. . . . Annual conv. undetermined . . . To promote the social and economic welfare of the engineering profession and the professional engineer.

AMERICAN ELECTROPLATERS SOCIETY—7,600 Members—445 Broad St., Newark 2, N. J. HU 2-3400 . . . Francis T. Eddy, Pres., John P. Nichols, Exec. Sec.

AMERICAN INSTITUTE OF ELECTRICAL ENGINEERS—51,000 Members—33 W. 39th St., New York, N. Y. PE 6-9220 . . . W. J. Barrett, Pres.; N. S. Hibshman, Sec. . . . Summer General Meeting June 22-27 . . . at Buffalo, N. Y. . . . Advancement of theory and practice of electrical engineering and of allied arts and sciences.

AMERICAN INSTITUTE OF PHYSICS—18,500 Members—335 E. 45th St., New York 17, N. Y. MU 5-1940 . . . Frederick Seitz, Chm.; Wallace Waterfall, Sec. . . . Annual conv. none . . . Advancement and diffusion of knowledge of the sciences of physics and its application to human welfare.

AMERICAN PHYSICAL SOCIETY—14,000 Members—Columbia University, New York 27, N. Y. UN 5-4000-Ext. 416 . . . Dr. Karl K. Darrow, Sec.; Prof. S. L. Quimby, Treas. . . . Annual meeting Jan. 29 thru Feb. 1 . . . Hotel New Yorker, New York City . . . Fosters the science and the profession of physics in America.

AMERICAN RADIO RELAY LEAGUE—75,000 Members—38 LaSalle Rd., W. Hartford, Conn. AD 6-2535 . . . G. L. Dosland, Pres.; P. C. Noble, Sec.-Gen. Mgr. . . . ARRL 10th Nat'l conv. . . . at Washington, D. C., Aug. 15-17 . . . Association of amateur radio operators.

AMERICAN SOCIETY FOR MECHANICAL ENGINEERS—45,900 Members—29 W. 39th St., New York 18, N. Y. PE 6-9220 . . . James N. Landis, Pres.; O. B. Schier, Sec. . . . Annual Meeting Nov. 30 thru Dec. 5 . . . Hotels Statler & Sheraton-McAlpin, New York City . . . Educational, professional body concerned with the mechanical engineering; allied arts.

AMERICAN SOCIETY FOR QUALITY CONTROL—10,500 Members—6197 Plankinton Bldg., Milwaukee 3, Wisc. BR 2-3347 . . . Leon Bass, Pres.; L. S. Eichelberger, Exec. Sec. . . . Advancement and diffusion of knowledge of the science of quality control and its application to industrial processes.

AMERICAN SOCIETY FOR TESTING MATERIALS—9,000 Members—1916 Race St., Phila. 3, Penna. RI 6-5315 . . . Richard T. Kropf, Pres.; R. J. Painter, Exec. Sec. . . . 61st Annual Meeting & 13th ASTM Exhibit June 22-27 . . . Hotel Statler, Boston, Mass. . . . To promote the knowledge of the materials of engineering, and the standardization of specifications and methods of testing.

AMERICAN SOCIETY OF TOOL ENGINEERS—39,000 Members—10700 Puritan Ave., Detroit 38, Mich. UN 4-7300 . . . H. E. Collins, Pres.; David A. Schrom, Sec. . . . Dissemination of knowledge of tool engineering.

AMERICAN STANDARDS ASSOCIATION—2,300 Companies—116 Trade & Technical Societies—70 E. 45th St., New York 17, N. Y. MU 3-3058 . . . H. Thomas Hollowell, Jr., Pres., Geo. F. Hussey, Jr., Vice Admiral, USN (Ret.), Managing Dir. & Sec. . . . 9th Nat'l Conference on American Standards Nov. 18-20 . . . at New York City . . . Provide an orderly set of voluntary coordinated standards and to promote their knowledge and use.

AMERICAN WOMEN IN RADIO & TV—1,550 Members—501 Madison Ave., New York 22, N. Y. EL 5-7281 . . . Margo Anderson, Exec. Sec. . . . An organization for interchange of information and mutual benefit of women in broadcasting.

ARMED FORCES COMMUNICATIONS & ELECTRONICS ASSOCIATION—10,492 Members & Subscribers—1624 Eye St., N. W., Washington, D. C. EX 3-3033 . . . Rear Adm. Frederick R. Furth, USN (Ret.), Pres.; Capt. Willfred B. Coulett, USN (Ret.), Exec. V. P. . . . Annual Conv. & Exhibit June 4-6 . . . Sheraton-Park Hotel, Washington, D. C. . . . A patriotic educational and non-profit communication and electronic society for military, scientific and industrial preparedness.

ASSOCIATED POLICE COMMUNICATIONS OFFICERS, INC.—2,000 Members—51 Government St., Mobile, Ala. . . . Frederic G. Crowder, Pres.; Howard P. Black, Sec.-Treas. . . . Annual Conference August 4-7 . . . Lord Baltimore Hotel, Baltimore, Md. . . . For the purpose of discussing technical, operations and administration of police and public safety communications systems.

ASSOCIATION FOR APPLIED SOLAR ENERGY—900 Members—3424 N. Central Ave., Phoenix, Ariz. CR 7-5401 . . . Jan Oostermeyer, Pres.; John I. Yellott, Exec. Dir. . . . Solar House Symposium . . . Date Undetermined . . . at Phoenix, Ariz. . . . To gather, compile and disseminate information relating to solar energy.

ASSOCIATION FOR COMPUTING MACHINERY—3,000 Members—2 E. 63rd St., New York 21, N. Y. . . . John W. Carr, Pres.; Jack Moshman, Sec. . . . 13th Annual Meeting June 11-13 . . . Univ. of Illinois, Urbana, Ill. . . . Advancement, design and development of modern mathematical machinery for logic, statistics, and kindred fields.

ASSOCIATION OF FEDERAL COMMUNICATIONS CONSULTING ENGINEERS—46 Members—710 14th St., N. W., Washington, D. C.

(Continued on page 39)



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(Continued from page 37)

Associations Roster

HU 3-9000—Robert E. L. Kennedy, Pres.; George P. Adair, Sec. . . . Annual conv. not determined . . . To provide for mutual improvement of consulting engineers before the FCC and to promote the proper applications of the radio communication regulations from the proper Federal authorities

ASSOCIATION OF ELECTRONIC PARTS & EQUIPMENT MANUFACTURERS—132 Members—11 LaSalle St., Chicago 3, Ill. SE 2-4217 . . . A. N. Haas, Pres.; Kenneth C. Prince, Exec. Sec. . . . To treat all problems relating to the sales and distributors of electronic items through distributors

AUDIO ENG'G SOCIETY—2,000 Members—Box 12, Old Chelsea Sta., New York 11, N. Y.—OR 5-7820 . . . Sherman Fairchild, Pres.; C. J. LeBel, Sec. . . . Annual Conv. October . . . at New York City . . . To further the engineering program in audio recording and reproducing equipment

BROADCAST PIONEERS—1,000 Members—589 5th Ave., New York 17, N. Y. PL 9-1500 . . . John F. Patt, Pres.; Raymond F. Guy, Sec. . . . Persons with long years of service in radio

ELECTROCHEMICAL SOCIETY—2,711 Members—1860 Broadway, New York 23, N. Y. CI 5-6282 . . . Norman Hackerman, Pres.; Henry B. Linford, Sec. . . . Annual Fall Meeting Sept 28 thru Oct 2 . . . Chateau Laurier, Ottawa, Can. . . . The advancement of the science and technology of electrochemistry, electronics, electrothermics, electrometallurgy, and allied subjects

ELECTRONIC INDUSTRIES ASSOCIATION—375 Members—1721 DeSales St., N. W., Washington, D. C. NA 8-3902 . . . Dr. W. R. G. Baker, Pres.; James D. Secrest, Exec. V. P. & Sec. . . . A non-profit association of the radio-electronics-TV industry

ELECTRONIC MANUFACTURERS ASSOCIATION, INC.—30 Members—55 W. 42nd St., New York 36, N. Y. PE 6-4864 . . . I. A. Mitchell, Pres.; J. W. Martindale, Exec. Sec. . . . Annual conv. none . . . Assist members in handling of the labor relation problems

ENGINEERS JOINT COUNCIL—17 Societies—29 W. 39th St., New York 18, N. Y. PE 6-9220 . . . E. R. Needles, Pres.; E. Paul Lange, Sec. . . . To provide information and assist in activities on professional engineering matters and to advance the science and profession of engineering

FM DEVELOPMENT ASSOCIATION—15401 W. Ten Mile Rd., Detroit 37, Mich. Harold I. Tanner, Sec. . . . To develop greater markets for FM stations through car radios, etc.

INDUSTRIAL COMMUNICATIONS ASS'N—30 E. 42nd St., New York, N. Y.—MU 7-8000 . . . R. E. Frew, Pres.; W. L. Hendershot, Sec.

INSTITUTE OF AERONAUTICAL SCIENCES—17,000 Members—2 E. 64th St., New York 21, N. Y. TE 8-3800 . . . Edward C. Wells, Pres.; Robert R. Dexter, Sec. . . . Annual Meeting Jan 27-31 . . . Hotel Sheraton-Astoria, New York City . . . To facilitate by all available means, the interchange of technical ideas among aeronautical engineers throughout the world

INSTITUTE OF HIGH FIDELITY MANUFACTURERS—100 Members—125 E. 23rd St., New York 10, N. Y. AL 4-3532 . . . Officers to be elected . . . Annual Meeting Jan. 16

INSTITUTE OF PRINTED CIRCUITS—6 Members—27 E. Monroe St., Chicago 3, Ill.—RA 6-3727—W. J. McGinley, Pres.; A. R. Hughes, V. P.

INSTITUTE OF RADIO ENGINEERS—62,000 Members—1 E. 79th St., New York 21, N. Y. LE 5-5100 . . . Donald G. Fink, Pres. . . . IRE Nat'l Conv. & Radio Engineering Show March 23-26 . . . Waldorf-Astoria Hotel & Coliseum, New York City . . . Advancement of the theory and practice of radio and allied branches of engineering and of the related arts and sciences

INSTRUMENT SOCIETY OF AMERICA—11,000 Members—313 6th Ave., Pittsburgh 22, Penna. AT 1-3171 . . . Dr. R. J. Jeffries, Pres.; H. C. Frost, Pres.-Elect.-Sec. . . . 13th Annual Instrument-Automation Conference & Exhibit Sept 15-19 . . . at Phila. Convention Hall . . . Advance the art & science of instrumentation and automatic control

INTERNATIONAL MUNICIPAL SIGNAL ASSOCIATION—1,700 Members—130 W. 42nd St., New York 36, N. Y. CH 4-4663 . . . Chester B. Kern, Pres.; Irvin Shulsinger, Sec. . . . Annual Conference Oct. 20-23 . . . Sheraton Hotel, Phila., Penna. . . Advancement and improvement of municipal signal and communications systems

JOINT ELECTRON TUBE ENG'G COUNCIL OF EIA & NEMA—14 Committees—11 W. 42nd St., New York 36, N. Y.—LO 5-3450 . . . Dr. W. R. G. Baker, Pres. . . . Deals with standards for receiving/transmitting tubes and semiconductors

JOINT TECHNICAL ADVISORY COMMITTEE—1 E. 79th St., New York 21, N. Y. . . . Wm. H. Radford, Chairman; L. C. Cumming, Sec. . . . Annual Conv. none . . . To assist the Federal Government and Industry on electronic engineering matters on an engineering basis

MAGNETIC RECORDING INDUSTRY ASSOCIATION—37 Members 1551 N. Bronson Ave., Los Angeles 28, Cal. . . . Irving Rossmar, Pres.; Herman Kornbrodt, Sec. . . . Further the uses of magnetic recording and to bring about a better understanding among the dealers, distributors and manufacturers in the industry

METAL POWDER CORE ASSOCIATION—81 Members—130 W. 42nd St., New York 36, N. Y. WI 7-0645 . . . George A. Roberts, Pres.; Kempton H. Roll, Exec. Sec.-Treas. . . . 15th Annual Meeting and 1959 Powder Metallurgy Show April 20-22 . . . Sheraton-Cadillac Hotel, Detroit, Mich. . . . A trade association for the powder metallurgy industry

NATIONAL ALLIANCE OF TV & ELECTRONIC SERVICE ASSOCIATIONS—7,500 Members—5906 S. Troy St., Chicago 29, Ill. CR 6-6363 . . . Russel Harmon, Pres.; Frank J. Moch, Exec. Dir. . . . Annual Convention & Seminar, Aug. 22-24 . . . Congress Hotel, Chicago, Ill. . . . To unite ethical local and regional associations into a national group working cooperatively

NATIONAL APPLIANCE AND RADIO TV DEALERS ASSOCIATION—5,000 Members—1141 Merchandise Mart, Chicago 54, Ill. MI 2-5505 . . . Officers to be elected . . . Annual Conv. Jan 12-14 . . . Conrad Hilton Hotel, Chicago, Ill. . . . Build better dealers by closer relationship, further their knowledge and provide various services

NATIONAL ASSOCIATION OF ELECTRICAL DISTRIBUTORS—1,060 Members—290 Madison Ave., New York 17, N. Y. MU 6-4633 . . . George Albiez, Pres.; Arthur W. Hooper, Exec. Dir. . . . 50th Annual Conv. June 8-12 . . . at San Francisco, Calif. . . . To disseminate information on industry matters and to promote beneficial relationship among distributors

NATIONAL ASSOCIATION OF MUSIC MERCHANTS—1,500 Members—222 W. Adams St., Chicago 6, Ill. AN 3-0679 . . . Paul E. Murphy, Pres.; Willard R. Gard, Exec. Sec. . . . Music Industry & Trade Show July 21-24 . . . Palmer House Hotel, Chicago, Ill. . . . For mutual advancement of individuals and organizations selling at retail

NATIONAL ASSOCIATION OF BROADCASTERS—2,168 Members—1771 N. St., N. W., Washington, D. C. DE 2-9300 . . . Harold E. Fellows, Pres.; Everett E. Revercomb, Sec.-Treas. . . . Advancement of aural and visual broadcasting arts

NATIONAL AUDIO-VISUAL ASSOCIATION—601 Members—Fairfax, Va. CR 3-4467 . . . Wm. W. Birchfield, Pres.; Ray S. Swank, Sec. . . . Nat'l Audio-Visual Conv. & Exhibit July 26-29 . . . Morrison Hotel, Chicago, Ill. . . . Trade association of audio-visual dealers and manufacturers

NATIONAL COMMUNITY TV ASSOCIATION—300 Members—1111 E. St., N. W., Washington, D. C. ME 8-1415 . . . Geo. J. Barco, Pres.; A. J. Malin, Sec. . . . 7th Annual Conv. June 10-12 . . . Mayflower Hotel, Washington, D. C. . . . To promote community television antenna industry

NATIONAL CONFERENCE ON AERONAUTICAL ELECTRONICS—P. O. Box 621, Far Hills Sta., Dayton, Ohio . . . 1958 Nat'l Conference on Aeronautical Electronics May 4-6 . . . Dayton, Ohio . . . To disseminate the latest developments in aeronautical electronics

NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION—570 Members—155 E. 44th St., New York 17, N. Y. MU 2-1500 . . . W. V. O'Brien, Pres.; Joseph F. Miller, Mgr. Dir. . . . Annual Conv. Nov. 10-14 . . . Hotel Traymore, Atlantic City, N. J. . . . To disseminate information and to develop industry standards

NATIONAL ELECTRONICS CONFERENCE—84 E. Randolph Ave., Chicago 1, Ill., FR 2-1211 . . . J. H. Enebach, Pres.; R. E. Bard, Exec. Sec. . . . Nat'l Electronics Conference Oct. 13-15 . . . Sherman Hotel, Chicago, Ill. . . . A national forum on electronic research, development and application

(Continued on page 41)

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 <p>Why is P·S·E never obsolete?</p>	 <p>How can I improve my present system —or add stereo?</p>
<p>A: Every University speaker component has built-in versatility and flexibility, such as dual impedance and adjustable response woofers . . . speakers that may be used for mid-range and/or treble response . . . adjustable networks. Even our enclosures and kits were designed with P·S·E in mind. All these features guard against obsolescence. And when you start or expand your system with University P·S·E, your original speaker(s) will always be an integral part at every stage — never discarded.</p>	<p>A: Very easy with P·S·E. Whatever your present equipment, the variety and flexibility of University's speakers assure compatible integration, while the unique versatility of University crossover networks and filters makes possible almost any number of crossover frequencies and impedances to <i>custom-improve</i> the system you now have. Thus P·S·E is also the smart way to add stereo. If you are starting from scratch, you can budget your stereo speaker system from beginning to end.</p>
 <p>How is P·S·E easy on my budget?</p>	 <p>Why is P·S·E the only <u>genuine</u> plan?</p>
<p>A: With P·S·E you can start as modestly as you like—with one extended range speaker, for example—and save part of your speaker budget until you've had more listening experience in your own home. Then, as your tastes develop and your budget allows, you can build up in successive, relatively inexpensive steps to a great variety of magnificent speaker systems. You are thus able to devote most of your initial budget to the selection of quality amplifying and program source equipment which cannot be economically altered or substituted later on.</p>	<p>A: Because <i>all</i> University speaker components are <i>especially matched</i> and designed with <i>exclusive</i> built-in features that provide the versatility essential to such a plan. Because University makes the <i>world's widest range</i> of quality speaker components—woofers, mid-range, extended range, 2- and 3-way Diffaxials, tweeters, networks—that give you an almost <i>unlimited selection</i> of superb speaker systems to start or develop until you gratify your ultimate aspirations!</p>



Get this P·S·E booklet at your high fidelity dealer. It lists all the more popular systems you can build the P·S·E way, plus complete specifications on all University speakers, networks, enclosures and enclosure kits. Or write Desk 6-4, University Loudspeakers, Inc., 80 South Kenisco Ave., White Plains, N. Y.

HOW P·S·E WORKS... a typical example



STEP 1 Start with the University Diffusicone-8 and realize immediate listening satisfaction.



STEP 2 Improve the high frequency reproduction to beyond audibility by adding the Model HF-206 Hypersonic Tweeter and N-2B L/C crossover network.



STEP 3 Reinforce bass response with the Model C-12W Adjustable Response 12" woofer and N-2A L/C network. The Diffusicone-8 now functions as a mid-range speaker. The result . . . the deluxe multi-speaker system you want tomorrow but started today . . . the P·S·E way!

LISTEN

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(Continued from page 39)

NATIONAL ELECTRONICS DISTRIBUTORS ASSOCIATION—510 Members—343 S. Dearborn St., Chicago 4, Ill. HA 7-5526 . . . Joseph A. DeMambro, Pres.; V. N. Zachariah, Sec. . . . Parts Show May . . . Conrad Hilton Hotel . . . The dissemination of information concerning the electronics industry.

NATIONAL SOCIETY OF PROFESSIONAL ENGINEERS—42,000 Members—2029 K. St. N. W., Washington 6, D. C. FE 7-2211 . . . Garvin H. Dyer, Pres.; Paul H. Robbins, Exec. Dir. . . . Annual Meeting June 11-14 . . . Chase Hotel, St. Louis, Mo. . . . Devoted to social, professional, economic and ethical aspects of engineering.

OPERATIONAL FIXED MICROWAVE COUNCIL—35 Members—No fixed address—Robert W. Olin, Chairman, Wm. E. Elder, Acting Sec. . . . Annual meeting undetermined . . . To foster mutual interest of organizations concerned with operational fixed radio systems.

PHONOGRAPH MANUFACTURERS ASSOCIATION—10 Members—37 W. 53rd St., New York 19, N. Y. CI 6-2940 . . . Joseph Dworkin, Pres.; A. D. Adams, Exec. Sec. . . . Annual Conv. none. . . . A non-profit organization to foster the mutual interest of its members in the electronic industries.

RADIO CLUB OF AMERICA—375 Members—11 W. 42nd St., New York 36, N. Y. LO 5-6622—Walter A. Knoop, Pres.; James Morelock, Cor. Sec. . . . Annual Meeting December . . . Technical Organization of engineers and suppliers to the electronic industry. Established 1907.

RADIO TECHNICAL COMMISSION FOR AERONAUTICS—130 Members—Room 1072, Bldg. T-5, 16th & Constitution Ave. N. W., Washington, D. C. ST 3-8984 . . . J. S. Anderson, Chairman, L. M. Sherer, Sec.-Treas. . . . Fall 1958 RTCA Assembly Meeting—date & location not determined. . . . To advance the art and science of aeronautics through the applications of the telecommunication art.

RADIO-TV EXECUTIVES SOCIETY, INC.—1,200 Members—The Billmore, New York 17, N. Y. MU 9-3480 . . . John C. Daly, Pres.; Claude Barrere, Exec. Dir. . . . Annual Conv. none . . . An organization of persons professionally interested in radio & TV broadcasting and allied fields.

RECORD INDUSTRY ASSOCIATION OF AMERICA—50 Members—1 E. 57th St., New York 22, N. Y. MU 8-3778 . . . Frank B. Walker, Pres.; John W. Griffin, Exec. Sec. . . . To disseminate information to its members, and promote beneficial relations.

REPRESENTATIVES OF ELECTRONIC PRODUCTS MANUFACTURERS—600 Members—600 S. Michigan Ave., Chicago 5, Ill. HA 7-2402 . . . Jules J. Bressler, Pres.; R. Edw. Stemm, Sec. . . . To serve the Electronics Industry, our principals, our customers and our fellow members in a constructive and profitable manner.

SCIENTIFIC APPARATUS MAKERS ASSOCIATION—222 Members—20 N. Wacker Dr., Chicago 6, Ill. ST 2-0277 . . . R. E. Welch, Pres.; T. M. Mints, Treas. . . . To strengthen and back-up the scientific and technological progress of the country.

SOCIETY OF MOTION PICTURE & TV ENGINEERS—6,139 Members—55 E. 42nd St., New York 36, N. Y. LO 5-0172 . . . Barton Kreuzer, Pres.; G. Carleton Hunt, Conv. V. P. . . . 84th Conv. Oct. 19-24 . . . Sheraton-Cadillac Hotel, Detroit, Mich. . . . Advancement of theory and practice of engineering in motion pictures and allied arts and sciences.

SOCIETY OF PLASTIC ENGINEERS—5,900 Members—34 E. Putnam Ave., Greenwich, Conn. TO 9-5617 . . . Officers to be elected . . . 14th Annual Nat'l Technical Conference Jan. 28-31 . . . Sheraton Cadillac Hotel, Detroit, Mich. . . . To promote in all lawful ways, the arts, sciences, standards and engineering practices connected with the use of plastics.

STANDARD ENGINEERS SOCIETY—700 Members—P. O. Box 281, Camden 1, N. J. . . . Herbert G. Arlt, Pres.; Jean A. Caffiaux, Sec. 7th Annual Meeting—date not determined . . . Ben Franklin Hotel, Phila., Penna. . . . To further standardization as a means of enhancing general welfare.

ULTRASONIC MANUFACTURERS ASSOCIATION—21 Members—P. O. Box 555, W. Chester, Penna. . . . J. T. Welch, Pres.; R. M. Moschella, Sec. . . . Nat'l Metal Show—In Nov. . . . at Phila., Penna. . . . To promote dissemination of sound and accurate information about ultrasonic equipment and its applications and to assist the ultrasonic industry in adopting ethical practices in sales, publicity and advertising.

Associations Roster

VETERAN WIRELESS OPERATORS ASSOCIATION—400 Members—c/o Brooklyn Press, 59 Lawrence St., Brooklyn 1, N. Y. . . . Wm. J. McGonigle, Pres.; Wm. C. Simon, Sec. . . . Dinner-Cruise Feb. 27 . . . Hotel Sheraton-Astor, New York City . . . To foster and extend esprit de corps among wireless operators.

WEST COAST ELECTRONIC MANUFACTURERS ASSOCIATION—256 Member Companies—1435 S. LaCienega Blvd., Los Angeles 35, Calif. OL 5-8462 . . . Officers to be elected . . . WESCON Aug. 19-22 . . . Pan-Pacific Auditorium, Los Angeles, Calif. . . . To advance electronic industries in the West.

PROFESSIONAL ENGINEERING GROUPS OF I.R.E.

AERONAUTICAL & NAVIGATIONAL ELECTRONICS—2,950 Members—Joseph General, Chairman, Wm. P. McNally, Sec.-Treas. . . . Conference on Aeronautical Electronics May 4-6 . . . at Dayton, Ohio . . . The application of electronics to the operation and traffic control of airborne aircraft and to the navigation of all craft whether military or civilian.

ANTENNAS AND PROPAGATION—2,700 Members—Dr. John I. Bohnert, Chairman . . . IRE Nat'l conv. March 23-26 . . . New York Coliseum . . . To encourage technical advances in the field of antennas, wave propagation, and radio astronomy and to promote the utilization of techniques and products in these fields.

AUDIO—4,000 Members—Dr. H. F. Olson, Chairman . . . IRE Nat'l conv. March 23-26 . . . New York Coliseum . . . The dissemination of information on technology of communications in the audio frequency field.

AUTOMATIC CONTROL—2,600 Members—E. M. Grabbe, Chairman, John M. Selzer, Sec.-Treas. . . . IRE Nat'l Conv. March 23-26 . . . New York Coliseum . . . Technology of communications at audio frequencies and of the audio portion of radio frequency systems, including acoustic terminations, recording, and reproduction.

BROADCAST & TELEVISION RECEIVERS—1,950 Members—H. A. Bass, Chairman . . . IRE Nat'l Conv. March 23-26 . . . New York Coliseum . . . The design and manufacture of broadcast and television receivers and components; and activities related thereof.

BROADCAST TRANSMISSION SYSTEMS—1,313 Members—Clure H. Owen, Chairman, Geo. E. Hagerty, Sec.-Treas. . . . Broadcast Day, IRE Nat'l Conv. March 24 . . . New York Coliseum . . . To stimulate interest in engineering as applied to broadcasting art.

CIRCUIT THEORY—5,890 Members—Dr. W. H. Huggins, Chairman IRE Nat'l Conv. March 23-26 . . . New York Coliseum . . . Design and theory of operation of circuits for use in electronic equipment.

COMMUNICATION SYSTEMS—2,600 Members—Mr. J. W. Worthington, Jr., Chairman . . . Annual Symposium on Aeronautical Communication Oct. 20-22 . . . Hotel Utica, Utica, N. Y. . . . Radiowire telephone, telegraph and facsimile in marine, aeronautical, radio-relay, coaxial cable and fixed station services.

COMPONENT PARTS—1,500 Members—R. M. Soria, Chairman . . . Electronics Components Conference May 6-8 . . . Ben Franklin Hotel, Phila., Pa. . . . The characteristics, imitations, applications, development performances and reliability of component parts.

EDUCATION—600 Members—Dr. John D. Ryder, Chairman . . . IRE Nat'l Conv. March 24-26 . . . New York Coliseum . . . To further the field of education in electronics.

ELECTRON DEVICES—3,600 Members—T. M. Liimatainen, Chairman . . . 1958 Electron Devices Meeting Oct. 30-31 . . . Shoreham Hotel, Washington, D. C. . . . Electron devices including particularly electron tubes and solid state devices.

ELECTRONIC COMPUTERS—6,900 Members—Dr. Werner Buchholz, Chairman, H. W. Nordyke, Sec.-Treas. . . . IRE Nat'l Conv. March 23-26 . . . New York Coliseum . . . Design and operation of electronic computers.

ENGINEERING MANAGEMENT—4,310 Members—Dr. C. R. Burrows, Chairman, Dr. Henry M. O'Bryan, Sec.-Treas. . . . IRE Nat'l Conv. March 24-26 . . . Waldorf-Astoria Hotel, New York City . . . Engineering management and administration as applies to technical, industrial and educational activities in the field of electronics.

(Continued on page 42)

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Associations Roster

(Continued from page 41)

ENGINEERING WRITING & SPEECH—600 Members—D. J. McNamara, Chairman . . . IRE Nat'l Conv. March 23-26 . . . New York Coliseum . . . The study, development, improvement and promotion of techniques for collecting and disseminating information in the electronic field.

HUMAN FACTORS IN ELECTRONICS—300 Members—H. T. Birmingham, Acting Chairman . . . Establishment and utilization of human engineering techniques for the design of electronics and electromechanical man-machine systems.

INDUSTRIAL ELECTRONICS—1,800 Members—W. R. Thurston, Chairman, C. A. Priest, Sec.-Treas . . . 7th Annual Industrial Electronic Symposium . . . Late Sept. . . . at Detroit, Mich. . . . Electronics pertaining to control, treatment and measurement, specifically in industrial processes

INFORMATION THEORY—2,600 Members—W. B. Davenport, Jr., Chairman, S. Deutsch, Sec.-Treas . . . IRE Nat'l Conv. March 23-26 . . . New York Coliseum . . . Advancement of the theory and practice of the art and science of the generation, transmission, reception, and processing of information.

INSTRUMENTATION—3,500 Members—Frank C. Smith, Jr., Chairman . . . IRE Instrumentation Conference Dec. 7-9 . . . at Atlanta, Ga. . . . Measurement and instrumentation utilizing electronic techniques.

MEDICAL ELECTRONICS—1,700 Members—Dr. Lee B. Lusted, Chairman, Walter E. Tolles, Sec.-Treas . . . IRE Nat'l Conv.-Medical Electronics Session March 23 & 24 . . . Waldorf-Astoria Hotel, New York City . . . The application of electronic engineering to the problems of the medical profession.

MICROWAVE THEORY AND TECHNIQUES—2,000 Members—Dr. W. L. Pritchard, Chairman, P. D. Strum, Sec . . . Microwave theory, circuitry and techniques, measurements and the generation and amplification of microwaves

MILITARY ELECTRONICS—3,262 Members—Adm. W. E. Cleaves, Chairman . . . Nat'l Conv. June 16-18 . . . Sheraton Park Hotel, Washington, D. C. . . . This group is concerned with the electronics, sciences, systems, activities, and services germane to the requirements of the military.

NUCLEAR SCIENCE—1,624 Members—Dr. John N. Grace, Chairman, J. P. Franz, Sec.-Treas . . . 5th Annual Meeting . . . in October . . . Location undetermined . . . To promote interest and advancement of the practice of engineering in the field of nuclear science.

PRODUCTION TECHNIQUES—859 Members—1 E. 79th St., New York 21, N. Y. LE 5-5100 . . . E. R. Gamson, Chairman; R. P. Cerhold, Sec.-Treas . . . Second Annual Symposium on Production Techniques June 4-6 . . . Hotel New Yorker, New York City . . . To promote technical progress in the design and manufacture of electronic equipment by manual or automatic means.

RADIO INTERFERENCE REDUCTION—250 Members—H. R. Schwenk, Chairman . . . IRE Nat'l Conv. March 22-26 . . . New York Coliseum . . . Advance study of origin, effect, control and measurement of radio frequency interference

RELIABILITY AND QUALITY CONTROL—1,372 Members—Dr. Victor W. Wouk, Chairman . . . 5th Nat'l Symposium on Reliability and Quality Control in Electronics Jan. 12-13 . . . Bellevue-Stratford Hotel, Phila., Pa. . . . Techniques of determining and controlling the reliability and quality of electronic parts and equipment manufacture

TELEMETRY AND REMOTE CONTROL—2,400 Members—Charles H. Doersam, Jr., Chairman, J. E. Hinds, Sec.-Treas . . . Symposium & Exhibit Sept. 22-24 . . . American Hotel, Bal Harbor, Miami Beach, Fla. . . . The control of devices and the measurement and recording of data from remote points by radio.

ULTRASONIC ENGINEERING—787 Members—Dr. Cyril M. Harris, Chairman . . . IRE Nat'l Conv. March 23-26 . . . New York Coliseum . . . Ultrasonic measurements and communications, including underwater sound, ultrasonic delay lines, and various chemical and industrial ultrasonic devices

VEHICULAR COMMUNICATIONS—1,149 Members—Mr. Charles M. Heided, Chairman . . . Annual Conv. Dec. 4-5 . . . at Hotel Sherman, Chicago, Ill. . . . To promote close cooperation among those interested in the field of vehicular communications

Automation Dictionary

(Continued from page 32)

ERROR. Not a mistake by an automatic controller but rather the margin by which it missed its target value.

FEEDBACK. Part of a closed loop system which brings back information about the condition under control for comparison to the target value.

FINAL CONTROL ELEMENT. Unit of a control system (such as a valve) which directly changes the amount of energy or fuel to the process.

FREQUENCY RESPONSE ANALYSIS. One of the most frequently misunderstood terms. Simply refers to a method of putting a control system through its paces. Does this by introducing a varying rhythmic change (like alternating current) into a process or control unit to see what effect, if any, these changes will have on the process or control unit. Since the information determines how a system or control unit will react, it is possible to use this method of analysis to predict what the addition of new equipment will mean to an operation.

GAIN. Amount of increase in a signal (or measurement) as it passes through a control system or a specific control element. If a signal gets smaller it is said to be attenuated. To further complicate things, gain can also mean the sensitivity of a device to changes.

GRAPHIC PANEL. A master control panel which pictorially and colorfully, traces the relationship of control equipment and the process operation. Permits an operator, at a glance, to check on the operation of a far-flung control system by noting dials, valves, scales, lights, etc. Widely used in chemical, petroleum, paper, and power plants.

HUNTING. Even control or measuring instruments sometimes have trouble finding the target. When an instrument wanders around the target without success, engineers appropriately claim it is "hunting."

HYSTERESIS (hiss-ter-EE-siss). The difference between the response of a unit or system to an increasing signal and the response to a decreasing signal.

INPUT. A sort of cable-ese meaning incoming signal to a control unit or system.

INSTRUMENT. As used industrially, definitely not a French horn or surgeon's forceps. Used broadly to connote a device incorporating measuring, recording, and/or controlling abilities.

INSTRUMENTATION. Used to describe the application of industrial instruments to a process or manufacturing operation. Also describes the instruments themselves.

INTEGRATOR (IN-tuh-gray-ter). A device which continuously adds up a quantity being measured over a period of time. Similar in use to your electric meter at home.

LAG. Preferred engineering term for delay in response.

LOAD. What the process calls for in fuel or energy input.

LOGGER. Not a woodsman but an instrument which automatically scans conditions (temperature, pressure, humidity)

(Continued on page 45)



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Automation Dictionary

(Continued from page 43)

and records—or logs—findings on a chart. Can come equipped with lights or alarms to signal danger points.

MANIPULATED VARIABLE. A quantity—or a condition—which is altered by the automatic units to set off a change in the value of the chief condition under regulations.

MEASURING MEANS. Whatever is used to measure a condition. A thermometer is a measuring means for room temperatures.

MINIATURIZATION. Method of reducing the size of instruments to minimize the space requirements.

NEUTRAL ZONE. An automatic control engineer's version of No Man's Land—a range of values in which no control action occurs.

NOISE. Similar to radio static. Meaningless stray signals in a control system that do not require correction.

OFFSET. Describes the difference between the value or condition desired and that actually attained.

OPEN LOOP. A control system in which there is no self-correcting action for "misses" of the target value, as there is in a closed loop system. Might be likened to a hunter firing a rifle at a deer; the bullet goes where it's aimed, and if it misses the target, no deer!

OPTIMALIZATION (op-tim-m-al-eye-say-shun). The approach to economically perfect plant operation accomplished, primarily, by analytical rather than hit-or-miss methods.

OSCILLOGRAPH RECORDER. A device capable of charting high speed variations in measured quantities, such as temperature or pressure, as found in aircraft testing, for example.

OUTPUT. Outgoing signal of a control unit or operation.

OVERSHOOT. Occurs when the process exceeds the target value as operating conditions change.

PHASE SHIFT. A time difference between the input and output signal of a control unit or system.

POTENTIOMETER (poh-TEN-she AH-mit-ter). Probably the most versatile of all measuring instruments. It comes in 36 million variations. It can measure anything from bubble gum mix to nuclear energy generation by comparing the difference between known and unknown electrical potentials.

PROGRAM CONTROL. A control system which automatically holds or changes its target value on the basis of time to follow a prescribed "program" for the process. Setting the timer and thermostat in your oven at home to bake a cake is a simple example of this type of control.

PROCESS. Actually, the system under control. It does not include the automatic control equipment.

PROPORTIONAL BAND. The range of values of the condition being regulated which will cause the controller to operate over its full range. Usually expressed by engineers in terms of percentage of instrument full scale range.

(Continued on page 46)



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AMPHENOL

Automation Dictionary

(Continued from page 45)

PROPORTIONAL CONTROL. Control action related to the extent a condition being regulated is off-the-beam.

PYROMETER (py-rah-mitter). Pyro is the Greek word for fire, and meter, a device for measuring. Thus, a pyrometer is an instrument for taking the temperature of a process. Not confined to measuring high temperature.

RATE ACTION. A type of control action in which the rate of correction is made in proportion to how fast the condition has gone awry. Also called derivative action.

RESISTANCE. A characteristic of an industrial process which opposes flow, either fluid or electrical. A partially open faucet resists the full flow of water.

RESET ACTION. A type of control action in which the corrections are made in proportion to the length of time a condition has been off-the-beam and the amount of deviation.

RESET RATE. The number of corrections per minute made by the control system. Usually expressed as X number of repeats per minute.

REPRODUCIBILITY. Nothing at all to do with the spawning of new little robots. In instrument work it means the exactness with which measurement of a given value can be duplicated.

SCANNER. An instrument which automatically checks a number of measuring points and indicates which have wandered too far from their desired values.

SENSITIVITY. The degree of response of an instrument or control unit to a change in the incoming signal.

SERVOMECHANISM (servo-MECH-anism). A type of closed loop control system in which mechanical position is the controlled variable. For example, an anti-aircraft gun positioning system is a servomechanism. This term often used incorrectly with reference to all types of automatic control systems.

SERVO TECHNIQUES. Methods devised by engineers to study performance of servomechanisms or control systems.

SET POINT. The target value which the automatic units strive to reach, or hold.

SIGNAL. Information relayed from one point in the control system to another.

SINUSOIDAL (sign-you-soy-dal). An adjective used to describe a type of signal which varies with time. The electricity in your house is a common example of a sinusoidal variation. In the language of the automatic control engineer, this term is used to describe the type of input signal introduced into a control system to study its control characteristics (see FREQUENCY RESPONSE).

STATIC BEHAVIOR. Describes how a control system, or an individual unit, carries on under fixed conditions (as contrasted to dynamic behavior which refers to behavior under changing conditions).

STRAIN GAGE. A measuring element (transducer) which can be used to convert a force pressure, tension, etc., into

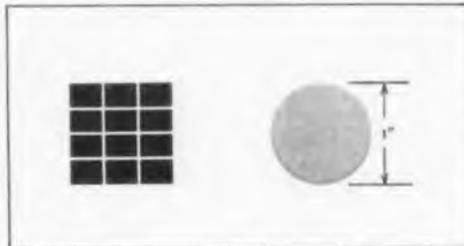
(Continued on page 49)

◀Circle 16 on Inquiry Card, page 175

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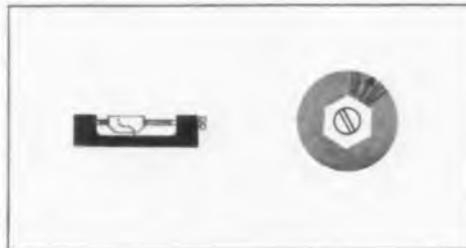
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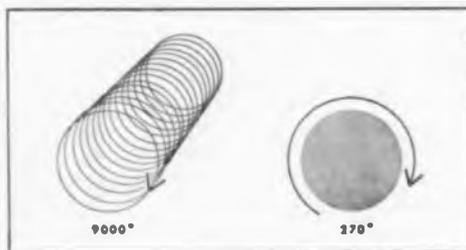
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Dimensions . . . 1/2 x 11/16 x 29/32 . . . Weight .8 oz.



TYPICAL ITEMS

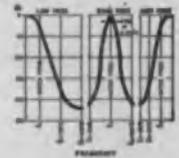
Type No.	Application	MIL Type	Pri. Imp. Ohms	Sec. Imp. Ohms	DC In Pri MA	Response ± 2 db (Cyc.)	Max. level dbm
H-30	Input to grid	TF1A10YY	50*	62,500	0	150-10,000	+13
H-31	Single plate to single grid, 3:1	TF1A15YY	10,000	90,000	0	300-10,000	+13
H-32	Single plate to line	TF1A13YY	10,000*	200	3	300-10,000	+13
H-33	Single plate to low impedance	TF1A13YY	30,000	50	1	300-10,000	+15
H-34	Single plate to low impedance	TF1A13YY	100,000	60	.5	300-10,000	+6
H-35	Reactor	TF1A20YY	100 Henries-0 DC, 50 Henries-1 Ma. DC.				4,400 ohms.
H-36	Transistor interstage	TF1A15YY	25,000	1,000	.5	300-10,000	+10

*Can be used with higher source impedances, with corresponding reduction in frequency range and current

COMPACT HERMETIC AUDIO FILTERS



UTC standardized filters are for low pass, high pass, and band pass application in both inter-stage and line impedance designs. Thirty four stock values, others to order. Case 1-3/16 x 1-11/16 x 1-5/8 - 2-1/2 high . . . Weight 6-9 oz.



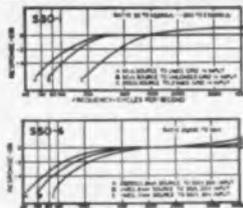
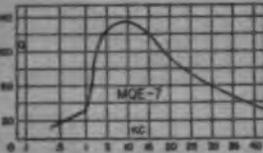
HERMETIC MINIATURE HI-Q TOROIDS

MQE units provide high Q, excellent stability and minimum hum pickup in a case only. 1/2 x 1-1/16 x 17/32 . . . weight 1.5 oz.



TYPICAL ITEMS

Type No.	Inductance	DC Max.
MQE-1	7 mhy.	135
MQE-3	20 mhy.	80
MQE-5	50 mhy.	50
MQE-7	100 mhy.	35
MQE-10	.4 hy.	17
MQE-12	.8 hy.	12
MQE-15	2.5 hy.	7.2



SUB-SUBOUNCER AUDIO UNITS

UTC Subouncer and sub-subouncer units provide exceptional efficiency and frequency range in miniature size. Constructional details assure maximum reliability. SSO units are 7/16 x 3/4 x 43/64 . . . Weight 1/50 lb.



Type	Application	Level	Pri. Imp.	MA D.C. in Pri.	Sec. Imp.	Pri. Res.	Sec. Res.
*SSO-1	Input	+ 4 V.U.	200 50	0	250,000 62,500	13.5	3700
*SSO-2	Interstage /3:1	+ 4 V.U.	10,000	0-25	90,000	750	3250
*SSO-3	Plate to Line	+20 V.U.	10,000 25,000	3 1.5	200 500	2600	35
*SSO-4	Output	+20 V.U.	30,000	1.0	50	2875	4.6
*SSO-5	Reactor 50 HY at 1 mil. D.C.						4400 ohms D.C. Res.
*SSO-6	Output	+20 V.U.	100,000	.5	60	4700	3.3
*SSO-7	Transistor Interstage	+10 V.U.	20,000 30,000	.5 .5	800 1,200	850	125

* Impedance ratio is fixed, 1250:1 for SSO-1, 1:50 for SSO-3. Any impedance between the values shown may be employed.

OUNCER (WIDE RANGE) AUDIO UNITS

Standard for the industry for 15 yrs., these units provide 30-20,000 cycle response in a case 7/8 dia. x 1-3/16 high. Weight 1 oz.



TYPICAL ITEMS

Type No.	Application	Pri. Imp	Sec. Imp
O-1	Mike, pickup or line to 1 grid	50, 200/250, 500/600	50,000
O-4	Single plate to 1 grid	15,000	60,000
O-7	Single plate to 2 grids, D.C. in Pri.	15,000	95,000
O-9	Single plate to line, D.C. in Pri.	15,000	50, 200/250, 500/600
O-10	Push pull plates to line	30,000 ohms plate to plate	50, 200/250, 500/600
O-12	Mixing and matching	50, 200/250	50, 200/250, 500/600
O-13	Reactor, 300 Hys.-no D.C.; 50 Hys.-3 MA. D.C., 6000 ohms		

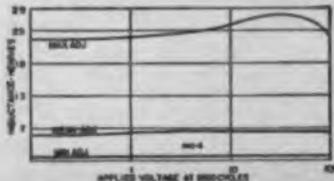
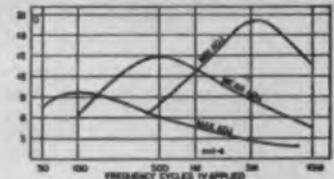
HERMETIC VARIABLE INDUCTORS



These Inductors provide high Q from 50-10,000 cycles with exceptional stability. Wide inductance range (10:1) in an extremely compact case 25/32 x 1-1/8 x 1-3/16 . . . Weight 2 oz.

TYPICAL ITEMS

TYPE No.	Min. Hys.	Mean Hys.	Max. Hys.	DC Ma
NVC-1	.002	.006	.02	100
NVC-3	.011	.040	.11	40
NVC-5	.07	.25	.7	20
NVC-6	.2	.6	2	15
NVC-10	7.0	25	70	3.5
NVC-12	50	150	500	1.5



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CABLES: "ARLAB"

Automation Dictionary

(Continued from page 46)

an electrical signal. The signal is then fed to an instrument for measurement and, if desired, control.

STEP CHANGE. Simply the change from one value to another in a single step.

SUPERVISORY CONTROL. A control system which furnishes intelligence, usually to a centralized location, to be used by an operator to supervise the control of a process or operation.

SYSTEM ENGINEERING. A method of engineering approach which takes into consideration all of the elements in the control system, down to the smallest valve, and the process itself. It is believed to have the most promise as an intelligent approach leading toward fuller industrial automation.

TELEMETERING (tella-MEET-er-ing). Transmission of a measurement over long distances, usually by electrical means. A receiving instrument converts the transmitted electrical signals into units of whatever is being measured.

THERMISTOR (THERM-iss-tor). A special type of temperature sensing element. Its extreme sensitivity permits it to transmit a strong signal from a very tiny temperature change.

THERMOCOUPLE. A temperature sensing element that creates an electrical signal in proportion to the temperature at the element.

TRANSDUCER. An element which converts one form of energy into another. Usually refers to an element creating a signal in relation to a condition being measured, like a thermocouple, or strain gage.

TRANSFER FUNCTION. Simply a mathematical expression of the control engineer which expresses the relationship between the outgoing and incoming signals of a process, or control element. Useful in studies of control problems.

TRANSISTOR. Tiny element in an electronic circuit that does much the same job as a vacuum tube. It is light, practically unbreakable, long-lived, and highly efficient.

TRANSIENT STATE. Generally implies a temporarily abnormal condition of a variable like speed, temperature, or pressure, which is changing erratically. Contrasted to this is "steady-state" which means that the variable is either held at a constant value, or else changes uniformly with time.

ULTRASONICS. A new term to describe a range of vibration frequencies well above that which can be heard by the human ear. No limit has yet been put on the upper limits. Vibrations in this range cause unusual and helpful phenomena. For example, the manner in which ultrasonic vibrations penetrate solids permits a new method of testing for internal flaws (also called "black sound").

VARIABLE. A factor or condition which can be measured, altered or controlled, i.e., temperature, pressure, flows, liquid level, humidity, weight, chemical composition, color, etc.

This "Automation Dictionary" was compiled by the Brown Instruments Div., Minneapolis - Honeywell Regulator Co.

LOOKING
FOR THE

SENSITIVE TYPE?



TRY
THIS
NUMBER **SV-1C/50000**

The Advance type SV Sensitive Relay (shown at right) is 1 1/2" high x 2 1/2" long x 2 1/4" wide. Also available is the type SO Miniature Sensitive Type, 1 1/2" high x 1 1/2" long x 1 1/4" wide.



Advance type SV relays are ultra-sensitive, yet durable—dust-tight, yet fully adjustable. Contacts and all working parts are protected by a transparent molded plastic cover.

SPECIFICATIONS

Coil resistance: From .005 Ohms at .005 volts DC to 40,000 Ohms at 14.0 volts DC.

Nominal power required: Factory adjusted at .005 watts.

Contact rating: 1 amp resistive, .5 amps inductive at 115 volts AC or 28.5 volts DC.

Contact arrangement: SPDT only.

Sensitivity can be adjusted from the 5-milliwatt factory setting by turning the vernier screws. Use the type SV in any DC circuit where power consumption is limited to a few thousandths of a watt.

Available from leading distributors

WRITE FOR COMPLETE DETAILS
Data sheets on the SV Sensitive Relay and the SO Miniature Sensitive Relay will be sent promptly.

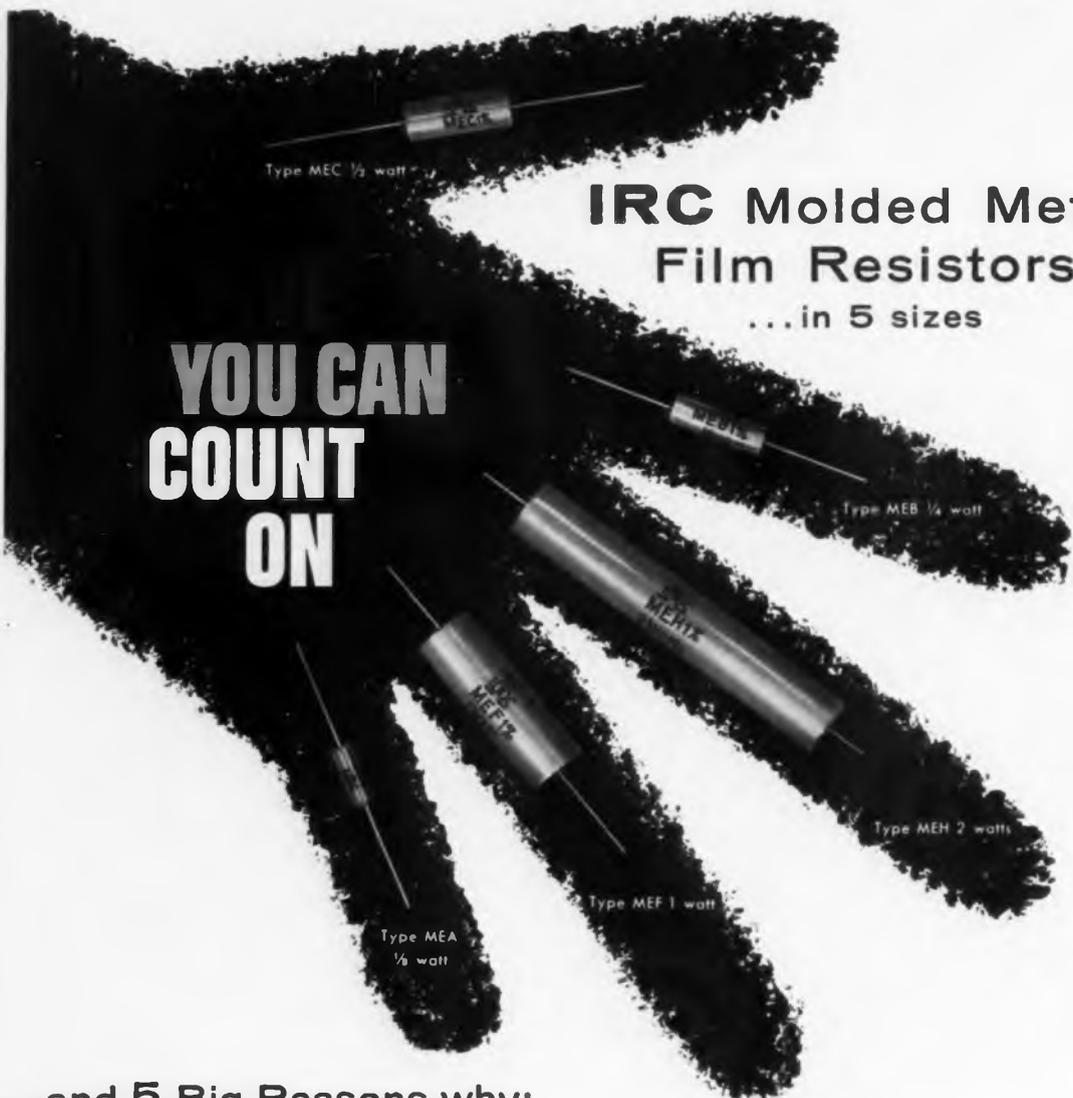


ELGIN

ADVANCE RELAYS

A PRODUCT OF ELECTRONICS DIVISION
ELGIN NATIONAL WATCH COMPANY

Dept. M, 2435 N. Naomi St., Burbank, Calif.



IRC Molded Metal Film Resistors ...in 5 sizes

YOU CAN COUNT ON

—and 5 Big Reasons why:

1) IRC Molded Metal Film Resistors are available in 5 wattage ratings, 2) The metallic resistive films they feature are accurately controlled and applied to special high quality ceramic cores, 3) They surpass characteristics A and B of specification MIL-R-10509B, 4) show a low noise level independent of range, and 5) provide a negligible voltage coefficient.

There are other good reasons, too—IRC Molded Metal Film Resistors set new performance standards—they can take full load at 125° C. ambient with linear derating to zero at 175° C. (except 2 watt size which is rated full load at 100° C. ambient) . . . combine stability on load with a low, controlled temperature coefficient never before obtainable in film resistors . . . provide low conductance and shunt capacity . . . show excellent high frequency characteristics.

Even more: IRC Molded Metal Film Resistors are small in size and weight, can replace precision wire wound resistors in numerous applications . . . available in 3 standard and 2 special temperature coefficient spans for maintaining or controlling resistance over

broad temperature ranges. Feature for feature, IRC Molded Metal Film Resistors are just what you want—and need—for high stability under severe load and humidity conditions.

Here's one more tip: Look into IRC Molded Metal Film Resistors for high frequency applications, too.

Find out the complete details about IRC Molded Metal Film Resistors—write today for Bulletin B-3b.



INTERNATIONAL RESISTANCE CO.

Dept. 372, 401 N. Broad St., Philadelphia 8, Pa.
In Canada: International Resistance Co., Ltd., Toronto, Licensee

Color Coding

Markings on electronic components and wiring, including those hard-to-find obsolete designations, are identified.

Antenna and Ground Leads

When leads for antenna and ground connections are provided on the receiver, it shall be standard to color code the antenna lead blue and the ground lead black. Special antenna connection leads shall be coded with combinations of blue and black.

Chassis Wiring

Where color coding is so used, it shall be standard to employ the following schedule of solid colors for chassis hook-up and component-lead wire insulation:

Seq. No.	Color Name	Circuit Name
0	Black	Grounds, grounded elements, and returns
1	Brown	Heaters or filaments, off ground
2	Red	Power Supply B plus
3	Orange	Screen Grids
4	Yellow	Cathodes
5	Green	Control Grids
6	Blue	Plates
7	Violet	Not Used
8	Gray	A.C. Power Lines
9	White	Above or below ground returns, AVC, etc.

Television Chassis Wiring (Tracer Extension)

Body and Tracer Colors	Circuit Name
Black (solid)	Grounds (grounded elements and grounded returns)
Black-Brown	Identified ground (as grounded heater or fil)
Black-Red	Identified ground (as grounded B minus)
Black-Yellow	Identified ground (as grounded cathode)
Black-Green	Identified ground (as grounded grid)
Brown (solid)	Heaters or filaments (above or below ground)
Brown-Red	Identified Htr or Fil (as rectifier Htr or Fil)
Brown-Yellow	Identified Htr or Fil (any auxiliary Htr or Fil)
Brown-Green	Identified Htr or Fil (any auxiliary Htr or Fil)
Brown-White	Heater or Filament Center tap (not grounded)
Red (solid)	Power Supply B plus (general or main stem)
Red-White	Identified B plus (as unfiltered B from Fil)
Red-Blue	Identified B plus (as above main stem)
Red-Yellow	Identified B plus (as below main stem)
Red-Green	Identified B plus (intermediate voltage)
Red-Black	Identified B plus (intermediate voltage)
Red-Blu-Yel	Identified B plus (intermediate voltage) (see Black-Red and White-Red for B minus)
White (solid)	Bias supply, B or C minus (main stem)
White-Red	B minus below ground (maximum value)
White-Orange	C minus (intermediate fixed value)
White-Yellow	C minus (intermediate fixed value)
White-Green	C minus (preferred for AVC bias)
White-Brown	C minus (intermediate AVC bias)
White-Black	Alternative ground or off-ground connection
White-Blue	Internal antenna or to antenna coil
Whit-Red-Blu	Universal substitute wire
Green (solid)	Control grids and diode plates (General)
Green-White	Diode plate (if identified from control grid)
Green-Red	Identified grid (as thyratron control grid)
Green-Yellow	Identified grid (as oscillator control grid)
Blue (solid)	Plates, except diode plates (General)
Blue-Red	Identified plate (as rectifier plate & HV AC)
Blue-Yellow	Identified plate (as Osc. plate or "anode grid")
Yellow (solid)	Cathodes (above or below ground)
Yellow-Red	Identified cathode (as pwr. amp. cathode)
Yellow-Green	Identified cathode (as picture tube cathode)

(Continued on page 53)

NEW TERMINALS NEW HARDWARE NEW CATALOG



Just off the press!
24 pages of new molded and Snap-Lock terminals, handles, electronic hardware, plus the biggest selection of standard and insulated terminals available anywhere. Specify Lerco and get all three—service, quality, competitive prices!

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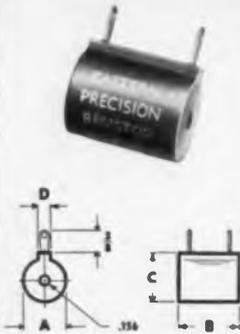
EASTERN PRECISION RESISTOR CORP.

EASTERN PRECISION RESISTOR CORP.
675 BARBEY STREET
BROOKLYN, N. Y.



"N-CAP" Series

ENCAPSULATED LUG TYPE



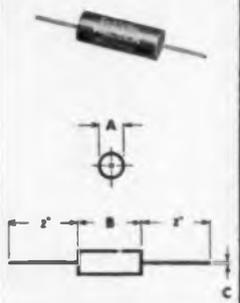
EPR Style	MIL-R-93 Characteristic "A"	MIL Wattage	COMM Wattage	MAX MIL Resistance	MAX COMM Resistance	A	B	C	D
*N-109	RB-09	.125	.25	130K	2.7 meg	9/16"	1/2"	11/16"	3/16"
N-110E	RB-15	.25	.50	135K	3.0 meg	5/8"	1/2"	21/32"	5/16"
N-111	RB-16	.33	.75	335K	7.0 meg	3/4"	11/16"	7/8"	3/16"
N-112E	RB-17	.50	1.0	465K	9.6 meg	5/8"	1"	21/32"	5/16"
N-113E	RB-18	.50	1.0	1.2 meg	10.0 meg	11/16"	1-1/4"	23/32"	5/16"
N-114E	RB-19	1.0	2.0	2.5 meg	10.0 meg	13/16"	2-1/8"	27/32"	5/16"

"N-CAPS" are manufactured to surpass the requirements of MIL-R-93 characteristic "A". Wound on plastic bobbins and totally encapsulated in the same material these resistors represent the optimum in precision wire wound resistors.

* Clearance for a #2 screw

"NS" Series

ENCAPSULATED AXIAL LEAD TYPE

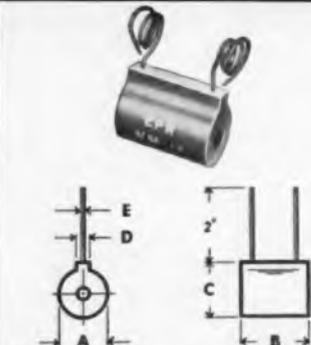


EPR Style	MIL-R-93 Characteristic "A"	MIL Wattage	COMM Wattage	MAX MIL Resistance	MAX COMM Resistance	A	B	C (AWG)
NS-6AV	—	—	.10	—	125 K	.150	3/8"	#24
NS-6AWE	—	—	.10	—	250 K	1/4"	5/16"	#22
NS-6AWM	—	—	.15	—	380 K	1/4"	1/2"	#22
NS-6AWG	—	—	.15	—	600 K	1/4"	5/8"	#22
NS-6AW	RB-52	.20	.40	27.5 K	675 K	1/4"	3/4"	#22
NS-6AH	—	—	.20	—	1.4 meg	7/16"	1/2"	#22
NS-6A	RB-52	.25	.50	80 K	2.5 meg	3/8"	1"	#20
NS-6B	RB-52	.25	.50	235 K	4.78 meg	1/2"	1"	#20
NS-6C	—	—	1.50	—	10.0 meg	1/2"	1-3/4"	#20
NS-6D	—	—	2.0	—	10.0 meg	1/2"	2"	#20

Wound on plastic bobbins and encapsulated to meet the requirements of characteristic "A" of MIL-R-93 specification. Suitable where point to point wiring is indicated "NS" series resistors are adaptable to automation assembly.

"NM" Series

ENCAPSULATED RADIAL LEAD TYPE



EPR Style	Maximum Resistance	Wattage	A	B	C	D	E (AWG)
NM-2	130 K	.125	1/4"	1/4"	11/32"	3/32"	#24
NM-3	360 K	.17	1/4"	7/16"	5/16"	3/32"	#22
NM-4	1 meg	.25	1/4"	3/4"	5/16"	3/32"	#22
NM-5	1.5 meg	.33	1/4"	1"	5/16"	3/32"	#22
NM-6	720 K	.25	5/16"	7/16"	3/8"	1/8"	#22
NM-7	1.8 meg	.33	5/16"	3/4"	3/8"	1/8"	#22
NM-10	480 K	.25	3/8"	5/16"	15/32"	5/32"	#22
NM-12	1.9 meg	.5	3/8"	5/8"	1/2"	1/8"	#22

"NM" series resistors are encapsulated to the requirements of MIL-R-93 characteristic "A". Sub-miniature in size these resistors are designed to meet the specifications of critical applications wherein space and stability is a prime factor.

Color Coding

(Continued from page 51)

INSULATED UNINSULATED	FIRST RING BODY COLOR	SECOND RING END COLOR	THIRD RING DOT COLOR
COLOR	1st FIGURE	2nd FIGURE	MULTIPLIER
BLACK	0	0	NONE
BROWN	1	1	.0
RED	2	2	.00
ORANGE	3	3	.000
YELLOW	4	4	.0000
GREEN	5	5	.00,000
BLUE	6	6	.000,000
VIOLET	7	7	.0,000,000
GRAY	8	8	.00,000,000
WHITE	9	9	.000,000,000
GOLD			.01
SILVER			.001

TOLERANCE: GOLD 5%, SILVER 10%, NONE 20%

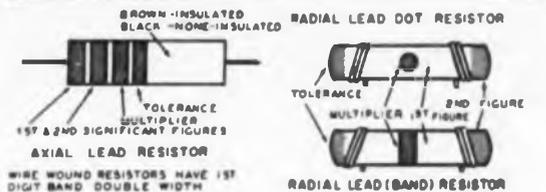


Fig. 1 (above): The code for resistors and the methods of marking.

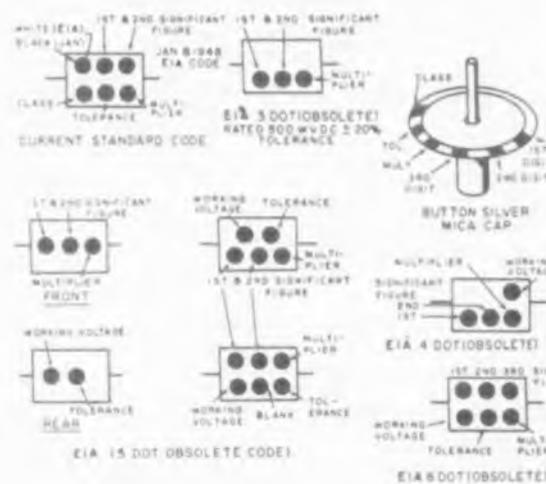


Fig. 2 (above): Methods of marking various molded mica capacitors.
Fig. 3 (below): Coding for molded mica and molded paper capacitors.

COLOR	SIGNIFICANT FIGURE, OR NO OF ZEROS, OR DECIMAL MULTIPLIER	VDCV	TOLERANCE
BLACK	0	—	—
BROWN	1	100	1%
RED	2	200	2%
ORANGE	3	300	3%
YELLOW	4	400	4%
GREEN	5	500	5%
BLUE	6	600	—
VIOLET	7	700	—
GRAY	8	800	—
WHITE	9	900	—
GOLD	—	1000	—
SILVER	—	2000	—
NONE	—	500	—

(Continued on page 54)

MAMMOTH narda SONBLASTER

America's first mass-produced industrial-size ultrasonic cleaner!

SAVE 7 ways over costly solvent, alkaline or vapor degreasing:

- Clean faster, speed production!
- Cut rejects, eliminate bottlenecks!
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**MAMMOTH
5-GALLON
TANK
\$695**

G-1501 generator, NT-1505 tank. 2-year guarantee on all units. Other models from \$175.

SPECIFICATIONS
Interior Tank size (in.), 10W x 14L x 9½H. Tank Capacity, 5 gallons.

Submersible Transducers
Model NT-604 — Hermetically sealed heli-arc welded stainless steel case. Radiating face: 27 sq. in. Effective plane of radiation: 40 to 50 sq. in. (approx. 10" x 5"). Effective cavitation of volumes: up to 1200 cu. in. at 24" tank height (5 gal.) and 2400 cu. in. at 48" tank height (10 gal.). Swagelok tube fitting on side or end for internal tank wiring.
Model NT-605 — Same as NT-604 except for bulkhead fitting on back for external wiring. Eliminates electrical conduits in solutions.

Now you can say goodbye to expensive chemicals, solvents, and degreasing equipment... reclaim valuable floor space... eliminate high installation costs... just by installing a Narda Series 1500 SonBlaster. At the same time, you'll get better, faster cleaning, and you'll need fewer people to do the job!

Get the tremendous activity of the new 200-watt Narda SonBlaster, with the largest transducerized tank ever made, at the lowest price in the industry! Choose from transducerized tanks or submersible transducers for use in any arrangement in any shape tank you desire. Up to 4 submersible transducers can be easily operated from the same generator at one time; load selector switch provided — an exclusive Narda feature.

Simply plug the SonBlaster into any 110-115 V AC line, and flip the switch. In seconds, you'll clean most any mechanical, optical, electrical, medical or horological part or assembly you can think of. Perfect, too, for brightening, polishing, radioactive decontaminating, pickling, quenching and plating; emulsifying, mixing, sterilizing, impregnating, degassing, and other chemical process applications.

Mail the coupon for free help in determining the model that's best for you.

The SonBlaster catalog line of ultrasonic cleaning equipment ranges from 35 watts to 2.5 KW, and includes transducerized tanks as well as immersible transducers. If ultrasonics can be applied to help improve your process, Narda will recommend the finest, most dependable equipment available — and at the lowest price in the industry!

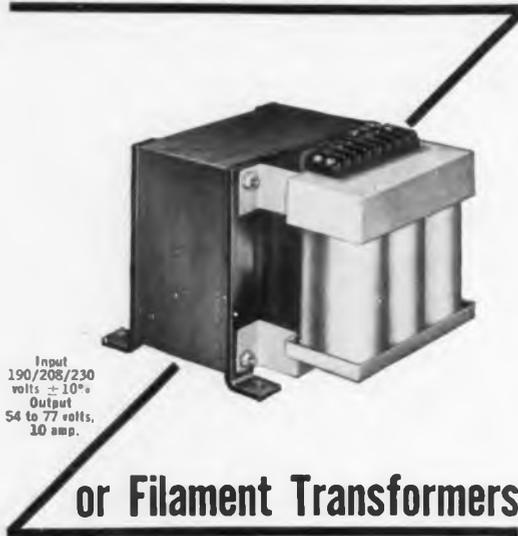
The Narda Ultrasonics Corporation
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Gentlemen:
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 The complete Narda line

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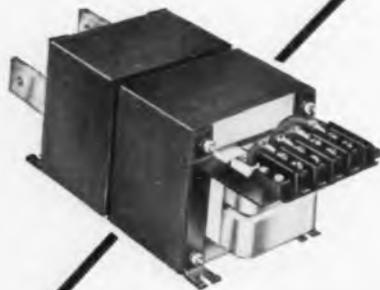


Voltage Stabilizers



Input
190/208/230
volts $\pm 10\%$
Output
54 to 77 volts,
10 amp.

or Filament Transformers



Input 200/220/240
volts; Output 6.3
volts, 600 amp.

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Acme Electric
TRANSFORMERS

Color Coding

(Continued from page 53)

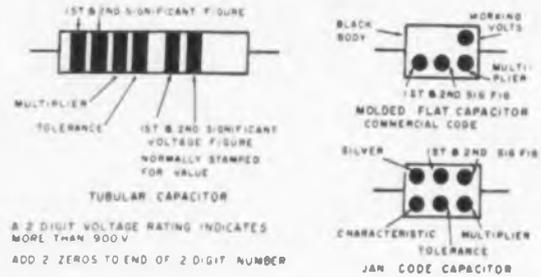


Fig. 4 (above): The marking methods for molded paper capacitors.

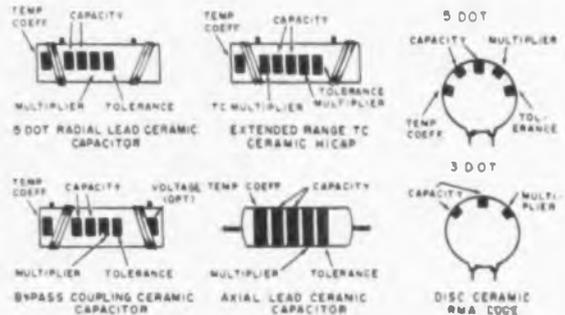


Fig. 5 (above): Ceramic capacitors have many methods of marking.

Fig. 6 (below): Ceramic capacitors have their own color code table.

COLOR	SIGNIFICANT FIGURE	DECIMAL MULTIPLIER	CAPACITOR TOLERANCE	TEMP COEFF PPM/°C
BLACK	0	1	$\pm 20\%$	0
BROWN	1	10	21%	-30
RED	2	100	$\pm 2\%$	-80
ORANGE	3	1000		-180
YELLOW	4			-220
GREEN	5		$\pm 5\%$	-330
BLUE	6			-470
VIOLET	7			-780
GRAY	8	0.01		30
WHITE	9	0.1		800

I F Transformers

- Blue—plate lead.
- Red—"B" + lead.
- Green—grid (or diode) lead.
- Black—grid (or diode) return.

NOTE: If the secondary of the I-F transformer is center-tapped, the second diode plate lead is green-and-black striped, and black is used for the center-tap lead.

A F Transformers

- Blue—plate (finish) lead of primary.
- Red—"B" + lead (this applies whether the primary is plain or center-tapped).
- Brown—plate (start) lead on center-tapped primaries. (Blue may be used for this lead if polarity is not important).
- Green—grid (finish) lead to secondary.
- Black—grid return (this applies whether the secondary is plain or center-tapped).
- Yellow—grid (start) lead on center-tapped.

NOTE: These markings apply also to line-to-grid and tube-to-line transformers.

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Hermetically Sealed Mylar** Metallized **TYPE RQL**
Metallized Mylar** **TYPE RLR**



MYLAR** FILM DIELECTRIC

Flat and Round Miniature Mylar** **TYPES XPF & XPR**



SAFETY MARGIN* ELECTROLYTICS

Moisture Sealed Sub-Miniaturized **TYPES EM & EK** . . . Miniature Metal-Cased Tubulars **TYPE MM** . . . Subminiature Electrolytics **TYPE ET** . . . Cardboard-Cased Electrolytics **TYPE ES** . . . Twist-Prong Electrolytics **TYPE EY** . . . Bathtub Case Capacitors **TYPE ED** . . . Metal Screw-Base Electrolytic **TYPE E** . . . Electrolytics for Transistorized Printed Circuit Applications **TYPES EX & EZ**.



PAPER DIELECTRIC

Molded Paper Tubular **TYPE AM** . . . Bathtub Paper Capacitor **TYPE ADM** . . . Meteor* Bathtub Capacitor **TYPE ADZ** . . . Meteor* Metal-Cased Polyester Plastic Capacitors **TYPE XQF** . . . Ceramic Cased Paper Tubular **TYPE AP** . . . Oil-Filled Metal Tubulars **TYPE ARMF** . . . Molded Plastic Tubular — Blue Point® **TYPE BP** . . . Meteor* Subminiature Glass-to-Metal Sealed Tubulars **TYPE AQF & TQF**.



METALLIZED PAPER

Metalite® Bathtub Capacitors **TYPE MD** . . . Metalite® Glass-to-Metal Hermetically Sealed Tubulars **TYPE MQC** . . . Metalite® Hy-Met* Cardboard Tubulars **TYPE MLL** . . . Metalite® Hy-Met* Terneplate "Squeeze Seam" Case **TYPE MXLJ** . . . Metalite® Hy-Met* Seamless Case Capacitor **TYPE MEL** . . . Metalite® Cardboard Tubulars **TYPE ML** . . . Metalite® Metal-Cased Tubulars **TYPE MRF** . . . Metalite® Terneplate "Squeeze Seam" Cases **TYPE MXJ** . . . Metalite® Hy-Met* Bathtub Capacitors **TYPE MDL** . . . Metalite® Hy-Met* Subminiature Bathtub **TYPE MTL** . . . Metalite® Hy-Met* Glass-to-Metal Sealed Tubulars **TYPE MQL** . . .



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Tung-Sol makes a wide range of tube types... tailors selenium rectifiers for diversified application throughout industrial and military electronic equipment.



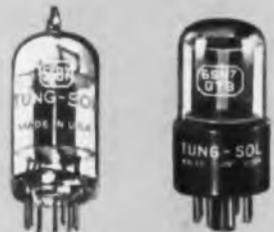
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Tung-Sol's hydrogen thyatrons and power supplies meet the aircraft industry's exacting demand for precision performance both in airborne and ground control.



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You can fill virtually every entertainment socket with Tung-Sol Blue Chip Quality tubes—cathode ray, aerial string, hybrid auto radio, TV, hi-fi and radio.



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For reliability, long life of electronic equipment and manufacturing economies, specify Tung-Sol translators in the JETEC 30 (TO-6 OUTLINE) package.





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Neon glow and miniature incandescent lamps are two areas of Tung-Sol lamp leadership that dates from 1907 and development of the first successful electric automotive headlight.



RECEIVING TUBES AND GENERAL PURPOSE TUBES

Tube	Sponsor	Type	Construction	Application	G _p	Grid 2	Grid 1	I _p	TYPICAL CHARACTERISTICS				Amp. Factor	Remarks	
									I _m	heater	R _p	G _m			
3D21A	CBS	Pentode	ST-14	Pulse Mod.	3500V	800V	150V			6.3V @ 1.7 A				To 20 KW	
3D21B	CBS	Pent.	T-12	Pulse Mod.	3500V	800V	150V			6.3V @ 1.7 A				To 20 KW	
4B28	GE	Pentode	7 Pin Min.	TV I-F Amp.	125	125	-19V	14 MA		4.2V @ 48 DMA	0.28 Meg	8000			
4C36	Sylvania	Heptode	9 Pin Min.	Synchro/Clipper						(Same as 6C36 except heater ratings 4.2V/450 MA)					
4DE6	Sylvania	Pentode	7 Pin Min.	TV I-F NAP						(Same as 6DE6 except heater ratings 4.2/450 MA)					
8CL5A	GE	Triode-Tetrode	9 Pin Min.	TV OSC-Mixer	125	125	-1 0	12	15	4.0	4.7V/600 MA	100,000	6400		
126												8000	40	Tetrode	
6CQ8	RCA	Triode Hetrode	9 Pin Min.	TV OSC-Mixer	125	125	-1	15 MA	18 MA	4.2 MA	4.7V/600 MA	6000	8000	40	Triode
6CR8	Sylvania	Triode-Pentode	9 Pin Min.	TV OSC-Mixer	125	125	-1 0	12 MA	18 MA	4.0 MA	4.7V/600 MA	6000	8000	40	Tetrode
6EA8	GE	Triode-Pentode	9 Pin Min.	TV OSC-Mixer	125	125	-1 0	12 MA	18 MA	4.0 MA	4.7V/600 MA	6000	8000	40	Triode
6EM8/6EM8	Sylvania	Triode-Pentode	9 Pin Min.	VHF OSC-Mixer	125	125	-1	18.5 MA	12 MA	4 MA	600 MA/450 MA	17 Mg	6000	40	Triode
6BL7GTA	GE	Duo-Triode	T-9	Vert. Def. Amp-OSC	250		-9	40 MA		6.3V @ 1.5 A		7000	15	Pentode	
6BR8A	Sylvania	Triode-Pentode	9 Pin Min.	TV Vert. Def.	250		-9	40 MA		(Same as 6BR8 except heater ratings 6.3V/450 MA)		6600	6.7		
6CK4	Sylvania	Triode	T-9	TV Vert. Def.	250		-9	40 MA		(Same as 5CL8A except heater ratings 0.3V/450 MA)		6600	6.7		
6CL5A	GE	Triode	T-9	TV Vert. Def.	250		-9	40 MA		(Same as 5CL8A except heater ratings 0.3V/450 MA)		6600	6.7		
6DG7	CIE DeL. Lampes	Pentode	9 Pin Min.	RF - IF Amp.	100	100	-20	10.8 MA	44 MA	30 OMA		250 K	4300		
6DN7	GE	Duo-Triode	T-9	TV Vert. OCS-Amp.	250		-8 0	66 MA		900 MA		2500	22.5	OSC	
8D01	RCA	Beam Power Amp.	T-12	Hor. Def.	173	125	-2.5	110 MA	8 MA	2.5 Amp		6500	10,500		
6DT8/12DT8	Westinghouse	Beam Pentode	9 Pin Min.	Vert. Def.	250	250	-16.5	38 MA	2 0 MA	1.2 A/600 MA		6200			
6DT8/12DT8	RCA	Twin Triode	9 Pin Min.	FM OSE-Mixer	250			10 MA		300 MA/150 MA		5500	60		
6DV6	Sylvania	Beam Pentode	9 Pin Min.	Vert. Def.	200	150	-22.5	15 MA		6.3V @ 1.2 Amp	15,000 Ohm	5500			
6EAB										(Same as 6EAB except heater ratings 6.3V/450 MA)					
6EB8	Sylvania	Triode-Pentode	9 Pin Min.	Voltage & Video Amp.	300		-2	3		6.3V/750 MA		2700	100	Triode-Pentode	
6GF8/9EF8/12EF8	Raytheon	Beam-Pentode	T-9	Vert. Def.	200	125	25	7			75,000	12,500			
6FM8	Sylvania	Beam-Pentode	T-12	TV Horiz. Def.	250	200	-18	50 MA	2 MA	900/600/450		5000			
7EY8	GE	Beam-Pentode	T-9	TV Vert. Def.	250	150	-22.5	75 MA	1 7 MA	6.3V/1.2 A	12,000	6000			
6SUA	GE	Triode-Pentode	9 Pin Min.	General Purpose TV	230	250	-17.5	44 MA	3 MA		60,000	4400			
6SQ5	Amperex	Pentode	9 Pin Min.	Audio Amp.						(Same as 6AUA except heater ratings -8.0V/450 MA)					
6EB8	Sylvania	Triode-Pentode	9 Pin Min.	Sync. Sep./Video Amp.						(Identical to 6BQ5 except for 8.0V/450 MA heater)					
11CY7	GE	Luotriode	9 Pin Min.	TV Vert. Def. Amp & OSC						(Identical to 6EB8 except heater rating of 8.0V/600 MA)					
12AX7A	Radio Valve Co.									(Same as 6CY7 except heater rating of 11V @ 450 MA)					
12DE8	Tung-Sol	Diode-Pentode	9 Pin Min.	IF, RF, Amp.	12.6	12.6	-0.60	0.0013 MA	0.0005 MA	300 MA	300,000	1500			
12DK7	Raytheon	Duo-Diode-Tetrode	9 Pin Min.	Auto Radios	12.6	12.6		6 0 MA	1 0 MA	600 MA	4000	5000			
12DL8	Tung-Sol	Twin-Diode/Tetrode	9 Pin Min.	12V Det.-Amp.	12.6	-0.5V	12.6V	90 MA		12.6V @ 550 MA	450	15,000			
12DV8	GE	Duo-Diode/Tetrode	9 Pin Min.	AVC Rect. Driver	12.6V	12.6V		9 MA		12.6V @ 375 MA	900 Ohm	8500			
12DY8	Sylvania	Triode/Tetrode	9 Pin Min.	12V Battery SVC	10V			3 MA				2000	20	Tetrode	
12DZ8	GE	Pentode	7 Pin Min.	RF & IFM Amp.	12.6	12.6	0	1.2 MA				6000			
12DW5	Sylvania	Beam-Pentode	9 Pin Min.	RF & IFM Amp.	12.6	12.6	0	5.3 MA	2.6 MA	12.6V @ 175 MA	30,000	3400			
12EA8	GE	Pentode	7 Pin Min.	RF, IF Amp.	200	150	-22.5	35 MA		12.6V @ 600 MA	15,000	5500			
12EC8	Sylvania	Triode-Pentode	9 Pin Min.	VHF OSC-Mix.	12.6	12.6	0	3 MA		12.6V @ 175 MA	31,000	3900			
12ED5	Sylvania	Pentode	7 Pin Min.	Audio Output	12.6	12.6	0	0.66	0.28	12.6V/225 MA	75,000	2000			
12EG6	Tung-Sol	Heptode	7 Pin Min.	12V-RF Amp.	12.6	12.6	-0.8	400 MA	2400 MA	12.6 @ 150 MA	0.15 Meg	800			
12EK6	Sylvania	Pentode	7 Pin Min.	VHF Amp.	12.6	12.6		4.4	2.0		60,000	4200			
12EM8	Raytheon	Diode-Tetrode	9 Pin Min.	Auto Radio	12.6	12.6		60 MA	1 0 MA	500	4000	5000			
12EM8	Westinghouse	Beam Pentode	T-9	Hor. Def.	12.6	110		30 MA	2 2 MA	600 MA	28,000	8000			
3D5	Marconi	Beam Pentode	9 Pin Min.	Audio Output	170	170	-9.5	52 MA	2 3 MA	35V/180 MA	20,000	9300			
5884	Italiana	Duo-Tetrode	Sub. Min.	Low Current Meas.	10 0	-5 0		100 MA/plate		1.25V @ 10 MA		23 ra. unit	1.05 cm. unit		
5988	Raytheon	Duo-Triode	Sub. Min.	VHF Push-Pull Mixer	45	0	0	0 7 MA		1.25 @ 120 MA		1300	30		
5989	Raytheon	Duo-Tetrode	Sub. Min.	P-P RF Amp.	135	45	-3 0	0 0 MA	0 6 MA	1.25 @ 200 MA		1700			
5970	Raytheon	Duo-Pentode	Sub. Min.	RF Amp.	45	45	0	6 0 MA	0 9 MA	1.25V @ 100 MA	0 17 M	1850			
5972	Raytheon	Pentode	Sub. Min.	Amp. to 100 MC	45	45	0	1 5 MA	0 4 MA	1.25V/60 MA	0 8 Mex	1100			
6097	Raytheon	Duo-Diode	7 Pin Min.	Airline & Mobile	127					6.3 @ 300 MA					
6147	Raytheon	Pentode	Sub. Min.	IDC Amp., Freq. Doubler	125	125	-7.5	5.5 MA	0 9 MA	1.25 @ 125 MA	0.175 M	1600		(Amp.)	
6335A	Chatham	Twin Power Triode	ST-16 Nonex Bulb	Reg. Power Supply	400			400 MA		6.3 B @ 5 A				(Freq. Doubler)	
6394A	Chatham	Twin Triode	T-16	Passing Tube	190			165 MA		28.5V 1.3 A		11,000		Per Plate - 30W	
6418	Raytheon	Pentode	Sub. Min.	Amp. in Portable	15	15	-0.5	100 MA	25 MA	1.25V @ 10 AM	0.72 M	190	2		
6419	Raytheon	Pentode	Sub. Min.	Amp. in Portable	15	15	-0.625	55 MA	2 0 MA	0.625V @ 10 MA	2 Meg.	100			

Tube	Sponsor	Type	Construction	Application	E ₀	Grid 2	Grid 1	I _b	I _c	Heater	R _h	G _m	Amp. Factor	Remarks
8528	Chatham	Twin Triode	8T-16	Passing Tube	100		-42	230 MA	2.3 MA	0.3V @ 5 Amps.		45,000	11	
6943	Sylvania	Pentode	T-3	Guided Missile	100	100		8 MA	2.1 MA	175 MA	300	3600		
6944	Sylvania	Pentode	T-3	Guided Missile	100	100		7 MA	2.1 MA	175	260	3200		
6945	Sylvania	Submini Pentode	T-3	Guided Missile	100	100		25 MA	1.8 MA	350	20K	3500		
6946	Sylvania	Pentode	T-3	Guided Missile	100	100		9 MA	1.8 MA	175 MA		3900	16.5	
6947	Sylvania	Duo-Triode	T-3	Guided Missile	150			6.5 MA	1.8 MA	350		4000	25	
6948	Sylvania	Duo-Triode	T-3	Guided Missile	100			0.8 MA	0.8 MA	350		1650	70	
6949	RCA	Beam-Pentode	Water Cooled	Transmitting	250	250	-15V	46 MA		0.3V @ 400 MA		4500		Plate Input 1000 KW
7028	RCA	Twin-Triode	9 Pin-Min.	Audio Amp.	450	Identical to 12AX7	except equiv. noise and hum voltage=1.8kV RMS (average); 7kV RMS (max)	95 MA	3.4 MA	0.3V/10 a				Values for 2 tubes
7027	RCA	Beam-Pentode	T-12	Push-Pull Hi-Fi	450	300	-30			0.0V/2.6 a				Max. plv. dis. = 250 w
7034	RCA	Beam Power	Coaxial	A. F. Power Amp.						26.2V/2.6 a				
7035	RCA	Beam Power	Coaxial	A. F. Power Amp.						12.6V @ 4.50 MA				
7036	RCA	Heptode	7 Pin-Min.	Computer	120		-2V	36 MA		Same as 6415A, except dimensions		10,000	19	
7044	Sylvania	Duo-Triode	9 Pin-Min.	Computer	120									
7084	RCA	Beam Power		B. F. Power Amp.-Osc.	250		0	135				5500	40	(To 500 MC)
7105	Chatham	Twin-Triode	T-12	Reg. Power Supplies	150			13.5 DC		6.3V/225 MA				
7137	Sylvania	Triode	7 Pin-Min.	Gr. Grid Amps.	125									
7150	A. B. Sylvania Electroner	Tetrode	T-9	Broad Band Amp.	125	115		26 MA	10 MA	6.3V/400 MA	40,000	34,000		AF2 300 MC

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—introduced during
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MAGNETRONS

Tube	Type	Sponsor	Oper. Band	Power Out. (min.)	Peak Anode Volts	Remarks
6917	Voltage-tunable	GE	2-4 kmc	—1 w	—	—
6972	—	Rogers-Maj.	9345-9405 mc	65 kw	—	—
7006	Tunable	RCA	8500-9600 mc	—	—	—
7026	—	Mullard	9345-9475 mc	3 w	—	Oscillator
7090	—	Rogers-Maj.	2425-2475 mc	200 w	—	For cw oper.
7091	—	Rogers-Maj.	2425-2475	2000 w	—	For cw oper.
7093	—	Rogers-Maj.	34,512-35,208 mc	25 kw	—	Fixed pulse oper.
7138 thru 7143	—	Canadian Marconi	—	18 kw	7.4 kv	—

(Covering range, 8050 to 9550 mc in 100 mc steps.)

NOISE TUBES

Tube	Sponsor	Type	Application
6881	Bendix	Argon-filled	UHF noise source
7101	Bendix	—	1.12-1.70 kmc
7154	Roger White	—	2700-2900 mc

PLANAR TRIODES

Tube	Sponsor	Application	E ₀	I _p	Plate Power
6885	Cie. Francaise	Osc.-Amp. to 3 kmc	1200	250 ma	250 w
6888	Cie. Francaise	Osc.-Amp. to 3 kmc	6000	9 a	250 w
7077	G.E.	RF-Amp. 30-1200 m	250	5.4 a	—

IGNITRONS

Tube	Sponsor	Type	PIV	Application	Remarks
7179-7180	GE	single-grid	—	Industrial Rect.	5 tubes supply 1000 kw @ 250 vdc
6958	GE	—	4000	Rect. or Inverter	—
7042	GE	double-grid	4000	—	Identical to 6958, but includes thermostatic control.
7151	GE	—	—	—	—

PHOTO TUBES

Tube	Sponsor	Construction	Application	Remarks
6810-A	RCA	14-stage, head-on	Scintillation Counters	Spectral response—3000-6500 Å., maximum at 4400 Å.
7029	RCA	—	—	For low-contrast applications.
7043	RCA	T-9	Sound Rec.	S-4 response, blue sensitive, non-directional.
7046	RCA	—	Scintillation Counters	Spectral response—2600 to 6500 Å., maximum at 4200 Å.
7064	Du Mont	14-pin	10-stage multiplier	S-11 response; sensitivity 80 μ a/lumen.
7065	Du Mont	12-pin	10-stage multiplier	S-11 response; sensitivity 80 μ a/lumen.
7102	RCA	—	Det. low-level red	—
7117	RCA	—	Headlight control	S-stage multiplier; S-4 response.

RECTIFIERS

Tube	Sponsor	Type	Construction	Application	DC Output Current	PIV	Heater Volts	Heater Current	Anode Starting Volts	AC Short Circuit Current
IK3	GE	—	—	TV HV Rectifier	.5 ma	22,000	1.25	—	—	—
6A54A	RCA	—	T-12	HV	—	(Same as 6A54, except dimensions)	—	—	—	—
6SN3	Rogers-Maj.	—	9-pin, min.	—	180 ma	700	55	100 ma	—	1.1 a.
5883	Amperex	Mercury	—	—	3 a.	15,000	—	—	—	120 a.
7014/7016	Nat. Electronics	Mercury	—	Industrial	2.5 a.	900	2.5	11.5 a.	10	180 a.
7016/7017	Nat. Electronics	Mercury	—	Industrial	6.4 a.	900	2.5	17.0 a.	10	380 a.
7018	Nat. Electronics	Mercury	—	Industrial	2.5 a.	2000	2.5	7.0 a.	13	250 a.
7019/7020	Nat. Electronics	Mercury	—	Industrial	6.4 a.	1000	2.5	16.0 a.	20	770 a.

THYRATRONS

Tube	Sponsor	Type	DC Output Current (a.)	PIV	Filament Voltage (v.)	Filament Current (a.)	Ionization Time (μ sec)	Deionization Time (μ sec)	AC Short Circuit Current (a.)
5878	Westinghouse	—	—	—	—	—	16	—	—
6786	Amperex	—	15.	15,000	—	—	—	—	—
7021	Nat. Electronics	Argon and mercury	1.0	1250	2.5	5	10	1000	50
7022	Nat. Electronics	Argon and mercury	4.0	1500	2.5	16	10	1000	100
7023	Nat. Electronics	Argon and mercury	6.4	1500	2.5	21	10	1000	170
7088	RCA	—	16.0	—	—	—	—	—	—

TRAVELING WAVE TUBES

Tube	Sponsor	Type	Anode Volts (v)	Shell Current (ma)	Collector Voltage (v)	Collector Current (ma)	Control Voltage (v)	Power Output (w)	Gain (db)	Application
6996	F T & R	—	3200	1	3300	50	-15	10	30	Amp.
6997	F T & R	—	2100	—	2100	200	—	30	30	Amp.

TR TUBES

Tube	Sponsor	Type	Op. Band (mc)	Ignitor Ignition Time (sec)	Ignitor Voltage Drop (v)	Spike Leakage Power (erg)	Flat Leakage Power (mw)	Peak Power (kw)	Average Power (w)	Ignition Current (μ a)
6940	Bornac	Broad band	6400-6900	5	200-400	0.1	10	700	700	200
6942	Bornac	Broad band	6490-6578	5	200-375	0.1	20	250	250	200
6946	Bornac	Broad band	6490-6578	5	200-375	0.1	20	100	100	200
6948	Bornac	Broad band	6490-6578	5	200-375	0.3	40	200	200	200
6955	Bornac	Broad band	33,600-36,250	5	350-475	0.1	20	20	10	200
6945	Bornac	Broad band w/Thermostat	6490-6578	5	200-375	0.2	60	100	—	200
6947	Bornac	Broad band w/Thermostat	6490-6578	5	200-375	0.1	20	100	—	200
6950	Bornac	Narrow band Tunable	23,630-24,650	5	300-425	—	—	24	14	200
6906	Bornac	Broad band	6295-6906	5	200-400	0.4	65	5	5	200
6949	Bornac	Broad band	16,000-17,000	—	—	—	—	100	67	200



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7500 G's

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Silicon Semiconductor Devices

THE methods of changing alternating current into direct current have improved over the years along with the other phases of electronic development. These improvements have always been toward more efficient, smaller, longer-lived and cheaper rectifiers. The latest, and most promising of these rectifiers, is the silicon semiconductor diode. Low current, low voltage silicon diodes have been used for years, but recent technological advancements have made possible the production of silicon rectifiers to replace the receiving-type vacuum tube rectifiers and on up through the range to mercury-arc rectifiers.

In comparing silicon to selenium rectifiers the following relationships stand out:

Efficiency—Due to the extremely high forward-to-back current ratio, silicon rectifiers achieve rectification efficiencies up to 99% at power frequencies. This high efficiency is characterized by forward conduction voltage drops of approximately one volt, hence higher output voltages, and reverse currents of the order of microamperes at rated peak inverse voltage.

Size—A silicon rectifier of like characteristics will weigh approximately one-sixteenth the weight of a comparable selenium rectifier.

Life—Selenium rectifiers experience a lowering of operating characteristics after a period of operation—a year, more or less. This change can be accelerated by environmental conditions of moisture and temperature (rated 85°C.). Silicon rectifiers, however, have shown no lessening of

operating characteristics due to age, moisture (100%), or temperature (rated junction temperature, 190°C.).

While semiconductors are generally thought to be neither good insulators nor conductors, special characteristics can be induced, such as a rectifying action where current flows easily in one direction but scarcely at all in the other direction. The fact that this is possible is readily understood with a little review of physical chemistry. An intrinsic (pure) crystal of certain elements, the diamonds for instance, is an excellent insulator.

outer ring of eight electrons is fairly stable and will not easily combine with anything. Helium, neon, and argon, being completely inert, are the most notable examples.

Intrinsic Silicon

The intrinsic silicon atom with its four valence electrons shares them with four other silicon atoms. This sharing occurs as electron pairs and is called a covalent bond. The covalent bond in the diamond is extremely hard to break by the application of some outside force such as a high potential electric field. However, germanium and silicon covalent bonds can be broken by light energy (photons) and heat energy (phonons), with recombination taking place almost immediately. The breaking of a covalent bond forms an electron-hole pair—if an electron is released from its covalent bond, it leaves a vacancy or "hole" with a positive charge.

With an externally applied voltage, an extremely small amount of current flow, intrinsic conduction, does take place due to this temporary freeing of electrons. The total amount of intrinsic conduction is effected by impurities, atoms of other elements, lattice imperfections, and lattice discontinuities.

What happens here is that the
(Continued on page 68)

GROUP	III	IV	V
OUTER RING ELECTRONS			
	B BORON	C CARBON	N NITROGEN
	Al ALUMINUM	Si SILICON	P PHOSPHORUS
	Ga GALLIUM	Ge GERMANIUM	As ARSENIC

Fig. 1: Position on Periodic Chart.

The diamond is, of course, a crystalline form of carbon which is a group IV element in the periodic table. Group IV elements have four electrons in their outer orbits. Germanium and silicon are also elements in this group and exhibit essentially the same properties.

These monocrystals are formed by atomic lattices, which is nothing more than an arrangement of the atoms in which the outer orbiting electrons, called valence electrons, are shared in such a way as to complete the outer ring of each atom. An atom with a completed

Further material on the theory, manufacture, and application of semiconductor devices can be found in semiconductor engineering handbooks available from Audio Devices, 620 East Dyer Road, Santa Ana, California; General Electric Co., Semiconductor Products, Electronics Park, Syracuse 1, N. Y.; Sarkes Tarzian, Inc., Rectifier Div., 415 N. College Ave., Bloomington, Ind.; and Sylvania Electric Products Inc., 1740 Broadway, New York 19, N. Y.



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straight line drawn be-
tween end points.

Silicon Semiconductor Devices



Fig. 2: Silicon atom sharing valance electrons with four other atoms in lattice.

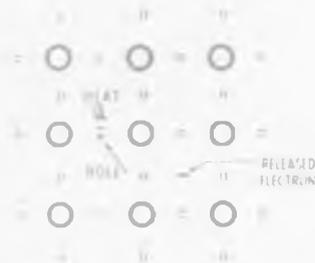


Fig. 3: Electron-hole formation.



Fig. 4: P-type semiconductor crystal.

Fig. 5: N-type semiconductor crystal.



(Continued from page 62)

number of electrons present for completion of the outer rings is either more or less than needed, and the free electron, or the absence of an electron (hole), both can combine with the thermally generated holes and electrons respectively, thus removing them from conduction. Now, the net conduction noted above obviously is not unidirectional nor great enough to be the forward current of a diode rectifier. It is, though, essentially the reverse current and as expected, varies with the temperature.

Silicon from group IV has four electrons in its valance ring. Group III atoms have only three electrons in their outer ring. If a group III element such as aluminum is added in small amounts to the intrinsic silicon, it diffuses throughout the crystal and becomes part of the lattice structure. It is apparent then, that some of the silicon atoms will be short an electron in the supposedly completed outer ring. This is the so-called hole (the covalent bond minus one negatively charged electron), with a positive charge and an affinity for an electron.

When an electron, temporarily set free from a neighboring covalent bond, fills this hole it leaves a hole from whence it came. A general movement of holes in this manner can be directed toward a negative potential and constitutes a current flow. An intrinsic material "doped" by the addition of a group III impurity is called a "p-type" semiconductor.

Acceptors

The impurity atoms in the crystal are called "acceptors" because they accept an electron from somewhere else in the crystal to complete its covalent bond. The holes are termed the majority carriers because the valance electrons (the minority carriers) can still be temporarily freed from their covalent bonds and act as free electrons.

A group V element, such as phosphorus, has five electrons in its outer ring. When this type of

impurity atom is diffused through the intrinsic material, there is one electron in excess of the number needed to complete the covalent bonds.

The electron, therefore, is free to act as a current carrier. An intrinsic monocrystal, doped by a group V element, is called an "n-type" semiconductor. The impurity atoms in the crystal are called "donors" because they donate excess electrons to the crystal. The electrons, in this case, are the majority carriers. Holes, from the breaking of covalent bonds, are the minority carriers. A flow of majority carriers in either case is called extrinsic conduction.

Junction

The silicon semiconductor rectifier needs a device to achieve unidirectional current. This device is in the form of a junction of n- and p-type silicon. Consider for a moment a block of semiconductor material, n-type on the left and p-type on the right with a fused area (the junction) between. At first, the holes in the p-type would move in the direction of the n-type and the free electrons in the n-type to the p-type. Recombination of the two then occurs, and the junction area soon becomes depleted of its majority current carriers.

Further recombination of the more remote majority carriers on each side of the junction is prohibited by the relatively few impurity donor and acceptor atoms at the junction. (Remember, the donor atom in the n-type material gave up its fifth electron as it formed covalent bonds with the surrounding silicon atoms and thus carries a net positive charge.

Also, the acceptor atom in the p-type material received an extra electron as it formed covalent bonds and thus carries a net negative charge.) The junction area with its charged impurity atoms, positive in the n-type material repelling the holes in the p-type material, and negative in the p-type

(Continued on page 68)

THE DECADE OF THE TRANSISTOR

IRE commemorates the tenth anniversary of a major breakthrough in solid state electronics by devoting the entire June issue of PROCEEDINGS OF THE IRE to an up-to-date summary of progress and advances in transistors. So small that many can be held in the palm of one hand, these tiny components have ended our 50 year dependence on vacuum tubes. Without transistors, our intricate guidance and communication systems for missiles would be incredibly big and heavy. With them, whole new technologies are being developed, not only for defense but for industry and commerce as well.



June Issue of Proceedings of the IRE is the New Standard Reference Work on Transistors

Only once before has PROCEEDINGS devoted an entire issue to transistors. That was in November, 1952. Despite a substantial overprinting, every copy was sold within 3 months. This classic issue, coming at a time when there were no books and few papers on the subject, is still considered one of the basic references on the subject...a suitable companion to the definitive Solid-State Electronic issue of December, 1955 and the Ferrites issue of October, 1956.

Now, to mark the tenth anniversary of the transistor, PROCEEDINGS presents the latest advances in theory and application in the June, 1958 issue. Here you will find introductory articles by its inventors—Shockley, Bardeen and Brattain—specially invited papers reviewing progress in all facets of the subject, contributed papers reporting the latest and more important advances in the field. Be sure to order your copy, today!

Partial Contents:

- "The Technological Impact of Transistors," by J. A. Morton & W. J. Pietenpol, Bell Labs.
- "The Status of Transistor Research in Compound Semiconductors," by D. A. Jenny, RCA
- "Survey of Other Semiconductor Devices," by S. J. Angello, Westinghouse.
- "Electrons, Holes and Traps," by W. Shockley, Shockley Semiconductor Lab.
- "Recombination in Semiconductors," by G. Bemski, Bell Labs.
- "Noise in Junction Transistors," by A. van der Ziel, University of Minnesota.
- "Formation of Junction Structures by Solid State Diffusion," by F. M. Smits, Bell Labs.
- "Germanium and Silicon Rectifiers," by H. Henkels, Westinghouse.
- "The Potential of Semiconductor Diodes in High-Frequency Communications," by A. Uhlir, Bell Labs.
- "Advances in the Understandings of the P-N Junction Triode," by R. L. Pritchard, Texas Instruments.
- "Power Transistors," by M. A. Clark, Pacific Semiconductors.
- "Application of Transistors in Computers," by R. A. Henle & J. L. Walsh, IBM.
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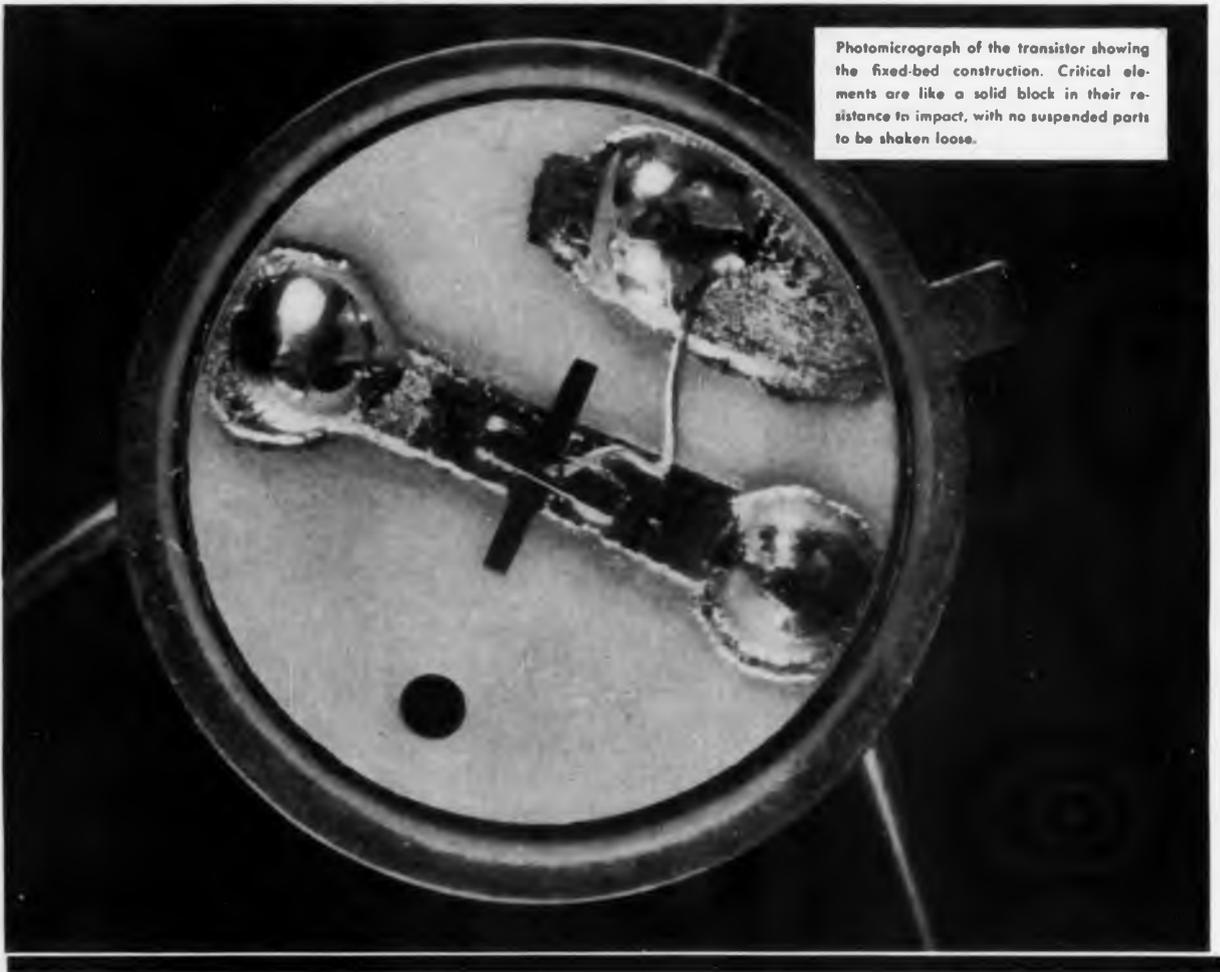
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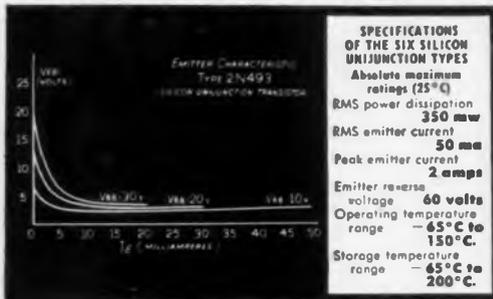


New fixed-bed mounting withstands



Photomicrograph of the transistor showing the fixed-bed construction. Critical elements are like a solid block in their resistance to impact, with no suspended parts to be shaken loose.

New data on the silicon Unijunction transistor



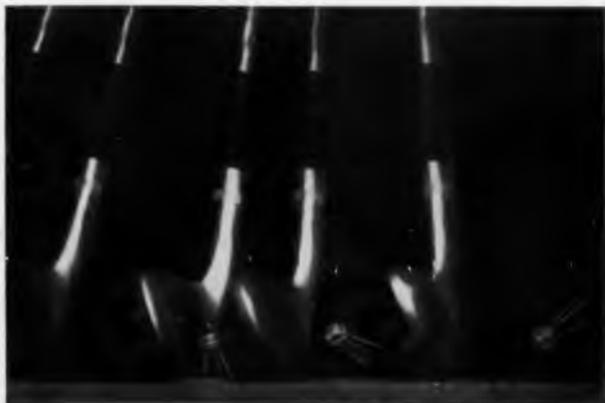
The unijunction features open-circuit-stable negative resistance characteristics. In switching and oscillator applications, one unijunction not only does the work of two transistors with less circuitry, but the circuit is also more stable over a wide temperature range.

To help you in your use of the unijunction, a new series of curves has been developed as shown. It points up emitter characteristics at different base-to-base voltages. The unijunction is also the first G-E transistor to be converted to the new impact-resistant Fixed-Bed Mounting process as described above.

Please send for complete data on the six unijunction types — sample circuits, theory and specifications.

YOUR G-E SEMICONDUCTOR SALES REPRESENTATIVE will be glad to give you further information and specifications on General Electric transistors and rectifiers. Spec sheets, bulletins, and other data can also be obtained by writing Section S2468, Semiconductor Products Dept., General Electric Company, Electronics Park, Syracuse, N. Y.

tremendous impact and vibration



"GOLF CLUB TEST" General Electric transistors with Fixed-Bed Mounting have been struck full force with a No. 2 Iron. After traveling forty yards, tests showed they still worked perfectly.



"JACKHAMMER TEST" Another G-E transistor with Fixed-Bed Mounting was taped to a pneumatic drill, which was then operated for ten minutes. When the transistor was removed, tests showed it still worked perfectly.

Ceramic disk guards against major causes of transistor failure

In General Electric's new Fixed-Bed Mounting, critical elements of the transistor are welded flat on a disk of ceramic. Thus any impact must be great enough to damage the disk itself before transistor failure can occur. In conventional methods of manufacture, impact need only penetrate the transistor's metal case in order to damage the standard upright header.

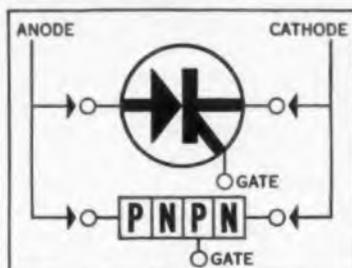
Because of their many suspended parts, standard upright headers are also subject to inertial stress at a number of points. General Electric's Fixed-Bed Mounting eliminated *all but one* of those parts—the suspended aluminum emitter lead. And this is provided with enough slack to absorb inertial stress, with connection points so securely welded that the unit withstands far more than the military centrifuge test of 20,000 G's.

To eliminate thermal stress, the coefficient of expansion of G.E.'s ceramic disk has been made equal to that of the semiconductor metal. Previously, enough "play" had to be allowed to absorb alternate expansions and contractions, thereby reducing the strength and stability of the unit.

The Fixed-Bed Mounting's electrical elements lie flat, in close contact to the transistor case, providing greater heat conduction out through the case. Therefore, the fixed-bed construction cuts down junction temperature, making it possible to double the power dissipation of the same transistor made with upright-header construction.

Fixed-Bed Mounted units have exceeded all standard shock, centrifuge and temperature-cycling tests. General Electric's unijunction transistor (see below) now has this feature.

New G-E Controlled Rectifier rectifies and controls current up to 5 amperes at 300 v.



The controlled rectifier is a four-layer silicon device with a "gate" to which a signal can be applied to control forward current. It can handle more than one kw of power.

NEED A FEW SEMICONDUCTORS IN A HURRY? Check your local G-E distributor first. You'll find his delivery, service facilities and prices are hard to beat.

General Electric's new silicon controlled rectifier acts like a thyatron. In the reverse direction, it's a standard rectifier. But it will also block forward current until either a critical breakover voltage is exceeded or a signal is applied to the third lead. Then it switches to a conducting state and acts as a forward-biased silicon rectifier.

The controlled rectifier can be actuated by a little as 15 mw. Breakdown occurs at speeds approaching a microsecond, after which voltage across the device is so low that current is determined by the load. This enables the user to control a large anode-to-cathode current with an extremely small amount of power, or to switch power from high impedance to low impedance in microseconds.

Applications include replacement of relays, thyratrons, magnetic amplifiers, power transistors and conventional rectifiers. Sample quantities of the controlled rectifier are now available. Prices will be sent on request.

GENERAL  ELECTRIC

Silicon Semiconductor Devices

(Continued from page 64)

material repelling the electrons in the n-type material, thus forms a potential barrier.

If an external battery were now connected to the n-p junction rectifier with the positive terminal to the n-type side and the negative terminal to the p-type side, the electron current carriers and the hole current carriers, respectively, are attracted toward the battery terminals. This action further depletes the junction area of majority current carriers and increases the magnitude of the potential barrier. This, then, is the polarity of reverse voltage for the silicon rectifier; and the reverse current is due to the directed drifting of the minority carriers released by the breaking of covalent bonds and the junction surface leakage.

An increase in reverse voltage beyond a few volts does not cause

the opposite polarity: Negative terminal to the n-type side and positive terminal to the p-type side. The majority carriers, in this case, will be repelled toward the junction where they overshadow the charges of the donor and acceptor atoms and consequently almost neutralize the potential barrier.

A number of the majority carriers, therefore, are attracted to the other side of the junction where, on a probability basis, they either recombine with their opposite majority carrier or arrive at the voltage source. In the alloyed rectifier junction the percentage of doping is much greater in one half than in the other, consequently, the forward current is almost wholly the predominant carrier. The very large magnitude of forward current in such rectifiers is achieved by the predominant majority carrier acquiring sufficient

Quartz crucibles are used and the entire process is conducted in an inert atmosphere to reduce contamination. Temperature is also very important and plus or minus 0.5° C at approximately 1430° C must be maintained.

When it is determined that the crystal has resulted in the desired type (either "P" or "N") and that the resistivity is within the range that will produce suitable voltage ratings, the crystal is cut into thin slices, and finally into small wafers or dice of desired size and thickness.

After etching and grading to separate wafers that do not conform to established thickness specifications, the dice are alloyed by a special process. Alloying is conducted at high temperatures and provides not only a "P"-N junction on one side of the wafer but a low resistance contact on the base. Low resistance is important, since once the internal space charge is overcome the resistance of the

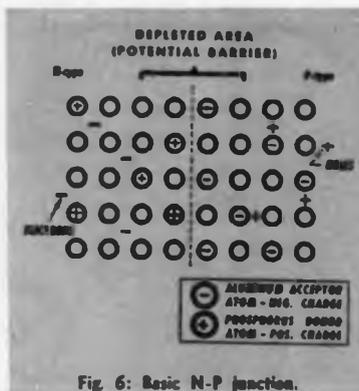


Fig. 6: Basic N-P junction.

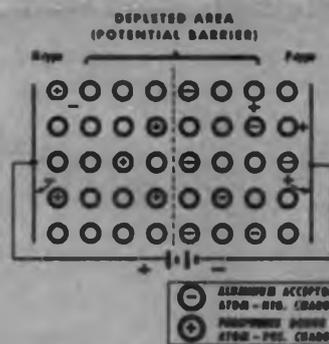


Fig. 7: Reverse biased junction.

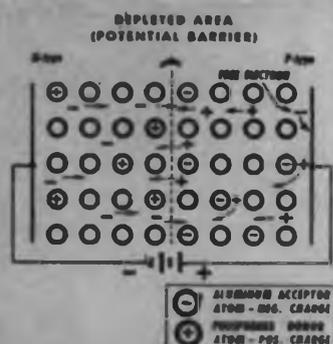


Fig. 8: Forward bias effects.

an appreciable increase in the reverse current because the number of electron-hole pairs generated is limited, being dependent mainly upon the temperature. The level of "saturation current" thus remains essentially the same with an increasing reverse voltage until a point, the "avalanche" breakdown voltage, is reached where a sudden flow of electrons occurs. This avalanche current is somewhat similar to the Townsend discharge in a gas. The breakdown voltage, therefore, establishes the peak inverse voltage (PIV) rating of the rectifier.

Forward conduction can take place by connecting the battery in

energy (velocity) to cross completely through the n- or p-type material in a manner analogous to vacuum tube conduction.

Manufacture

Silicon does not lend itself to zone refining, therefore, the most popular method to produce single crystals of pure silicon is crystal "pulling" where a seed of pure single crystal silicon is dipped into molten silicon, rotated slowly and withdrawn at a predetermined rate. A major problem in crystal "pulling" is to keep the resultant crystal free of contaminants, since molten silicon is very active and attacks the materials used in containers and holders.

junction decreases exponentially and lead resistance limits current flow.

Alloyed dice are brazed to a base and then sealed after a contact is provided to the alloyed side. Extreme care must be taken during the mounting and assembly operation to keep the surface free from contamination of any type since contaminants will ionize and shunt the junction.

Final electrical and mechanical tests are performed before and after successive heat cycles to make certain that the rectifier is stable under all conditions of temperature, humidity, altitude and shock.

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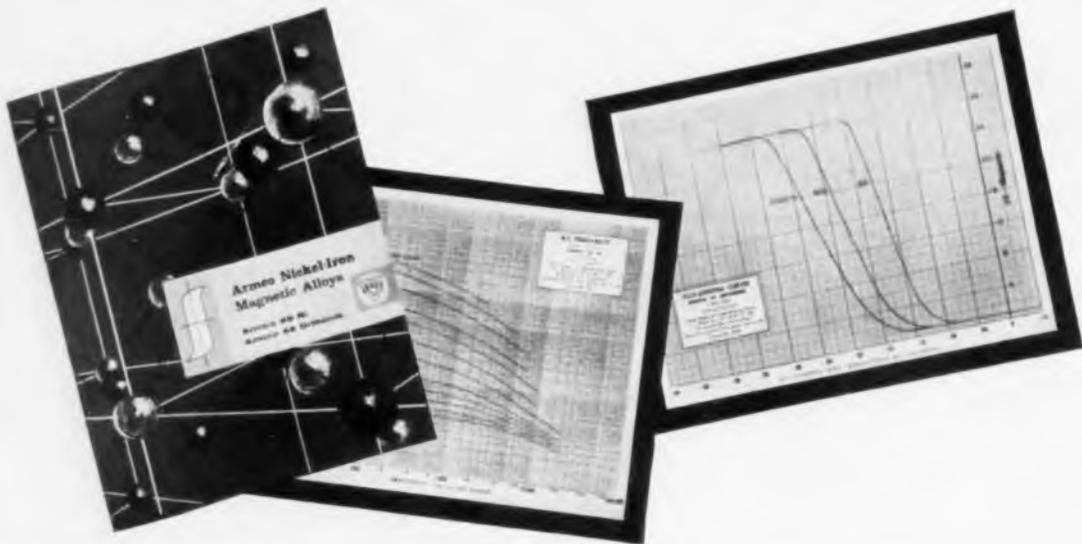
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SEMI-CONDUCTOR **DIODE** SPECIFICATIONS



1958-59
International Listings
for
2,500 Germanium and Silicon Types
from
39 Manufacturers

*Listings include diode type number, manu-
facturer, forward and inverse currents and
voltages, operating temperature*

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and All Reference Issue

Your Design is better Your Product performs better

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DEPENDABLE DIODES
RELIABLE RECTIFIERS

Germanium GLASS DIODES

TYPE	Working Voltage (max.)	Forward Current at +1 volt	Reverse Current	Type	Working Voltage (max.)	Forward Current at +1 volt	Reverse Current
	v	mA	μ A at v		v	mA	μ A at v
1N55B	150	5	500 at -150	1N128	40	3	10 at -10
1N66A	60	5	50 at -10	1N191	90	5	25 at -10
1N67A	80	4	50 at -50	1N198	80	5†	75† at -10
1N68A	100	3	625 at -100	1N294A	60	5	10 at -10
1N95	60	10	800 at -50	1N297A	80	3.5	100 at -50
1N126	60	5	50 at -10	1N298A	70	30*	250 at -40
1N127	100	3	25 at -10				

*at +2 v †at 75°C

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		25°C mA	150°C mA	Volts	25°C	100°C
1N645	225	400	150	225	0.2	15
1N646	300	400	150	300	0.2	15
1N647	400	400	150	400	0.2	20
1N648	500	400	150	500	0.2	20

Silicon DIFFUSED JUNCTION RECTIFIERS

WIRE IN TYPES

STUD TYPES

TYPE	Peak Operating Voltage -65°C to +165°C Volts	Ave. Rectified Current 25°C 150°C		Reverse Current (Max.) at Specified PIV, 150°C mA	TYPE	Peak Operating Voltage -65°C to +165°C Volts	Ave. Rectified Current 25°C 150°C		Reverse Current (Max.) at Specified PIV, 25°C μ A
		mA	mA				Amps	Amps	
1N536	50	750	250	0.40	1N253	95*	3.0	1.0*	10
1N537	100	750	250	0.40	1N254	190*	1.5	0.4*	10
1N538	200	750	250	0.30	1N255	380*	1.5	0.4*	10
1N539	300	750	250	0.30	1N256	570*	0.95	0.2*	20
1N540	400	750	250	0.30	CK846	100	3.5	1.0	2
1N1095	500	750	250	0.30	CK847	200	3.5	1.0	2
1N547†	600	750	250	0.35	CK848	300	3.5	1.0	2
					CK849	400	3.5	1.0	2
					CK850	500	3.5	1.0	2
					CK851	600	3.5	1.0	2

† Same as 1N1096 *to +135°C

Ratings at 25°C unless otherwise indicated. All illustrations actual size.



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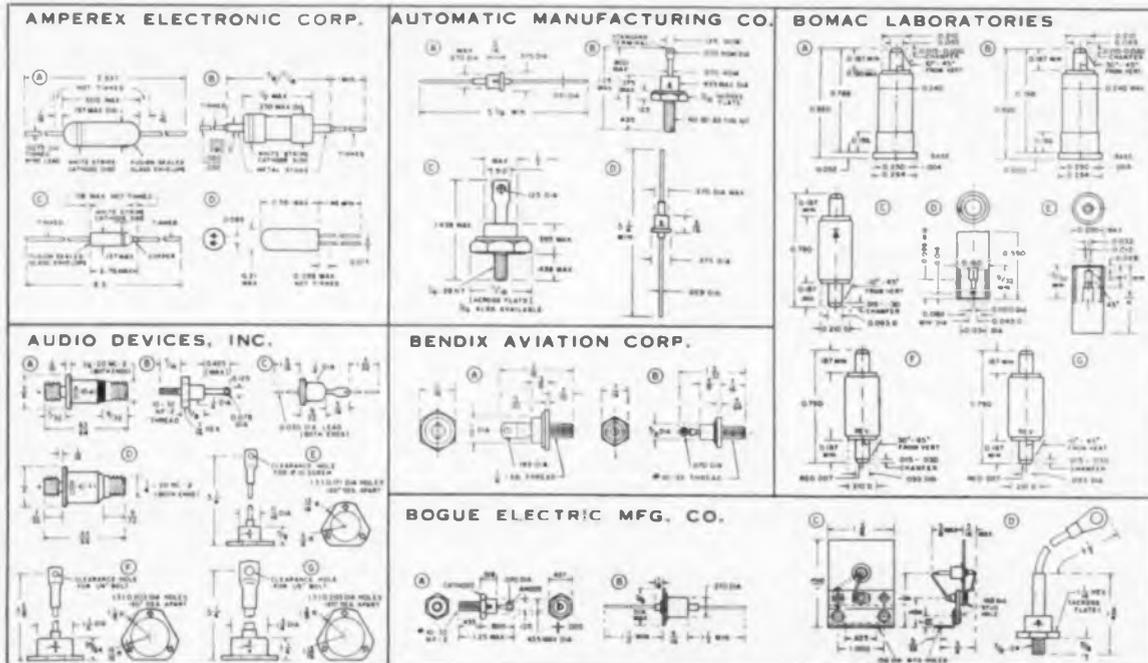
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Los Angeles: 5236 Santa Monica Blvd., NOrmandy 5-4221

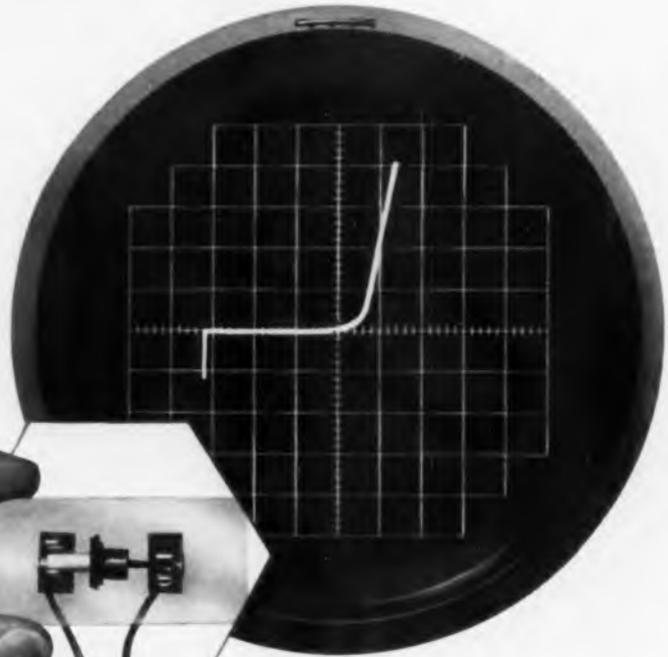
DIODE TYPE	CASE	MAT.	INVERSE			FORWARD		TEMP.	
			E_{PEAK} V	I_{PEAK} mA @ V	E_{COVT} V	I_{SURGE} mA	I_{RMS} mA @ 0.1s	OPER °C	MAX °C
AMPEREX ELECTRONIC CORPORATION, 230 Duffy Ave.,									
Michaelville, L. I., N. Y.									
1N14	A	G	75	10010	60	500	5	25	75
1N14A	B	G	75	10010	60	500	5	25	90
1N18	A	G	120	603	100	4	25	90	
1N18A	R	G	120	603	100	500	4	25	75
1N14	A	G	75	9010	50	500	5	25	75
1N14A	B	G	75	7010	50	500	4	25	75
1N58	A	G	120	6000100	100	500	5	25	75
1N58A	P	G	120	6000100	100	500	5	25	75
1N60	A	G	30	67010	25	500	3	25	75
1N63	A	G	125	5000050	100	400	4	25	75
1N67A	C	G	100	505	80	500	4	25	75
1N68A	C	G	110	6250100	100	500	3	25	75
1N87	A	G	30	2501	5	400	10.25	25	
1N87A	A	G	30	2501.5	5	400	2.5	25	
1N88	A	G	110	1000050	85	400	2.5	25	
1N89	C	G	100	805	80	400	3.5	25	
1N90	C	G	75	8000050	60	500	5	25	90
1N95	C	G	75	5000050	60	250	10	90	
1N98	C	G	100	50	80	100	10	90	
1N116	C	G	75	1000050	60	250	5	80	
1N117	C	G	75	1000050	40	250	10	90	
1N119	R	G	75	25010	60	500	5	75	
1N120	R	G	75	50010	60	500	5	75	
1N126	C	G	75	50010	60	350	3	25	75
1N128	C	G	50	10010	40	300	3	25	75
1N198	C	G	100	10010	80	100	4	75	90
1N476	A	G	115	2750100	90	500	3	25	
1N477	A	G	115	2750100	90	100	3	25	
1N478	A	G	115	150010	90	500	3	25	
1N479	R	G	115	150030	90	500	5	25	
1N480	A	G	90	60	500	5	25		
1N490	A	G	90	60	500	5	25		
1N541	A	G	45	150030	30	300	1.5		
1N542	A	G	45	Matched Pair of 1N541					
1N616	A	G	80	150030	30	300	0		
1N617	C	G	115	2750100	90	500	3		
1N618	C	G	115	2750100	90	500	3		
C60	R	G	30	25010	25	500	5	25	75
C67	R	G	100	50050	80	250	4	25	75
C10	R	G	130	6250100	100	350	3	25	75
C19	R	G	100	100050	80	250	3	25	75
C95	R	G	75	5000050	60	300	10	25	75
C99	R	G	100	500050	80	100	10	25	75
C116	R	G	75	1000050	60	100	5	25	75
C117	R	G	75	1000050	60	100	10	25	75
C48	A	G	100	50010	80	400	4	25	75
C63	A	G	125	50050	100	400	4	25	75
C67	A	G	100	500050	80	250	4	25	75
C68	A	G	130	6250100	100	350	3	25	75
C85	A	G	100	100050	80	250	3	25	75
C95	D	G	100	110100	100	500	200	25	75

DIODE TYPE	CASE	MAT.	INVERSE			FORWARD		TEMP.	
			E_{PEAK} V	I_{PEAK} mA @ V	E_{COVT} V	I_{SURGE} mA	I_{RMS} mA @ 0.1s	OPER °C	MAX °C
4N100 DEVICES									
4N1464	F	Si	300	50000300					100
4N1465	F	Si	400	50000400					100
4N1466	F	Si	100	50000100					100
4N1467	F	Si	300	50000200					100
4N1468	F	Si	300	50000300					100
4N1469	F	Si	400	50000400					100
4N1470	G	Si	100	100000100					100
4N1471	G	Si	200	10000200					100
4N1472	G	Si	300	10000300					100
4N1473	G	Si	400	10000400					100
4N1474	G	Si	100	10000100					100
4N1475	G	Si	200	10000200					100
4N1476	G	Si	300	10000300					100
4N1477	G	Si	400	10000400					100
4N1478	G	Si	100	10000100					100
4N1479	G	Si	200	10000200					100
4N1480	G	Si	300	10000300					100
4N1481	G	Si	400	10000400					100
4N1551	R	Si	100	10000100					100
4N1552	R	Si	200	10000200					100
4N1553	R	Si	300	10000300					100
4N1554	R	Si	400	10000400					100
4N1555	R	Si	500	10000500					100
4N1556	C	Si	100	10000100					100
4N1557	C	Si	200	10000200					100
4N1558	C	Si	300	10000300					100
4N1559	C	Si	400	10000400					100
4N1560	C	Si	500	10000500					100
AUTOMATIC MANUFACTURING DIV., General Instrument Corp., 65 Governor St.,									
Newark, N. J.									
1N248	C	Si	50	5000050					150
1N248A	C	Si	50	5000050					150
1N249	C	Si	100	5000100					150
1N249A	C	Si	100	5000100					150
1N250	C	Si	200	5000200					150
1N250A	C	Si	200	5000200					150
1N253	R	Si	100	10000100					135
1N254	R	Si	200	10000200					135
1N255	R	Si	400	10000400					135
1N256	R	Si	600	20000600					135
1N332	R	Si	400	20000400					150
1N333	R	Si	400	20000400					150
1N334	R	Si	300	20000300					150
1N335	R	Si	100	20000100					150
1N336	R	Si	200	10000200					150
1N337	R	Si	200	10000200					150
1N338	R	Si	100	20000100					150
1N339	R	Si	100	10000100					150
1N340	R	Si	100	10000100					150
1N341	R	Si	400	50000400					150
1N342	R	Si	400	50000400					150
1N343	R	Si	300	50000300					150
1N344	R	Si	300	50000300					150
1N345	R	Si	200	50000200					150
1N346	R	Si	200	50000200					150
1N347	R	Si	100	50000100					150
1N348	R	Si	100	50000100					150
1N349	R	Si	100	50000100					150
1N440	A	Si	100	30100					25
1N440P	A	Si	100	30100					55
1N441	A	Si	200	750200					25
1N441R	A	Si	200	750200					25
1N442	A	Si	300	10300					25
1N442B	A	Si	300	10300					25
1N443	A	Si	400	150400					55
1N443P	A	Si	400	150400					25
1N444	A	Si	500	1750500					55
1N444R	A	Si	500	1750500					55
1N445	A	Si	600	20600					25
1N445P	A	Si	600	20600					25
1N530	A	Si	100	30100					25

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NEW T/I diffused junction 3 AMP 600 VOLT silicon rectifiers



(ACTUAL SIZE)

TI diffused junction silicon rectifiers give you full 3-ampere output at 50°C with PIV ratings to 600 volts.

The TI diffusion process assures you of complete uniformity of characteristics and provides either anode-to-stud or cathode-to-stud polarity. Quick easy wiring into production assemblies is additionally facilitated by the eyelet on the top lead. All welded, rugged construction with glass-to-metal seal provides high resistance to shock and vibration.

Check the characteristics below and specify economically priced TI rectifiers for all your medium power applications.

Anode-to-stud units denoted by "R" suffix to type number.

maximum ratings

Peak Inverse Voltage at -65°C to $+150^{\circ}\text{C}$
 *Average Rectified Forward Current at $+50^{\circ}\text{C}$
 *Average Rectified Forward Current at $+150^{\circ}\text{C}$
 *Recurrent Peak Forward Current at $+50^{\circ}\text{C}$
 Surge Current, 1 Cycle at 60 Cycles at $+50^{\circ}\text{C}$
 Operating Temperature, Ambient

1N1124	1N1125	1N1126	1N1127	1N1128	unit
200	300	400	500	600	V
3	3	3	3	3	Amp
1	1	1	1	1	Amp
10	10	10	10	10	Amp
25	25	25	25	25	Amp
-65 to +150					$^{\circ}\text{C}$

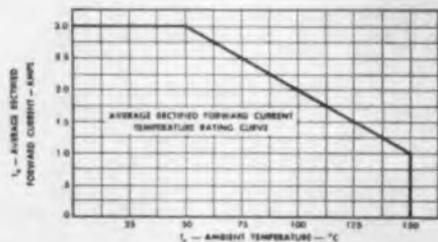
specifications

Max. Full Cycle Avg. Reverse Current at $+150^{\circ}\text{C}$
 Max. Reverse Current at PIV at $+25^{\circ}\text{C}$
 Max. Forward Voltage Drop at
 $I_b = 1$ Amp at $+25^{\circ}\text{C}$ +

0.3	0.3	0.3	0.3	0.3	mA
10	10	10	10	10	μA
1.1	1.1	1.1	1.1	1.1	V

* Rectifier mounted on 2" x 2" Heat Sink, 1/16" aluminum.

available now with either anode or cathode to stud



also immediately available in production quantities

TI 1500 VOLT RECTIFIERS

Single junction reliability assures the high reliability your circuits require.

	Peak Inv Voltage V	Avg Rect Fwd Current mA	Recurrent Peak Current
1N1130*	1500	300	1A
1N1131†	1500	300	1A
1N588	1500	25	150 mA
1N589	1500	50	250 mA

* cathode-to-stud

† anode-to-stud

TEXAS INSTRUMENTS
 INCORPORATED
 SEMICONDUCTOR - COMPONENTS DIVISION
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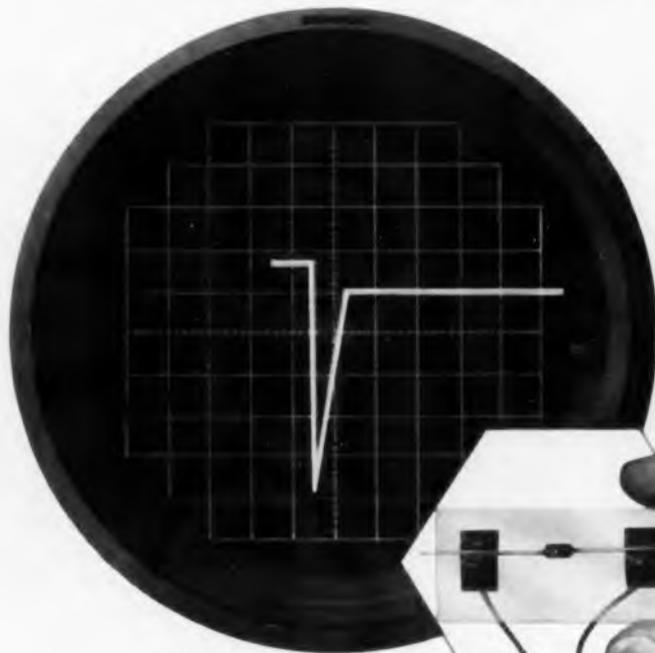


Contact your nearest TI sales office or distributor for detailed silicon diode and rectifier data sheets

T/I diffused silicon

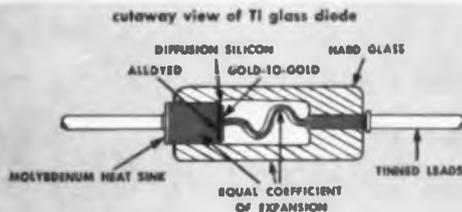
0.3 μ sec recovery time to 400 k

200 VOLT computer diodes



Recovery time to 400 K when
switched from 30 mA forward current to
-35 V measured in JAN 256 circuit.

(ACTUAL SIZE)



TI diffused silicon computer diodes give you
0.3 μ sec maximum recovery time at 400 K with
PIV ratings to 200 volts.

For your computer applications, TI hard glass diodes
provide 100 mA average rectified forward current at 25°C.
All units are rated to meet military requirements, and
provide fast recovery, higher conductance ratings, and
shock-proof reliability.

Check the characteristics below and specify TI diodes for
all your computer applications.

Also in this same glass package, TI general purpose diodes

max ratings	1N645	1N646	1N647	1N648	1N649	
PIV	225	300	400	500	600	V
I_O	400	400	400	400	400	mA
I_{O1}	150	150	150	150	150	mA
I_{O2}	1.25	1.25	1.25	1.25	1.25	amp
P	600	600	600	600	600	mW
I_{DC}	3	3	3	3	3	Amp
T_A	-65 to +150					°C
specifications						
V_Z	275	360	480	600	720	V
I_{Lb}	0.2	0.2	0.2	0.2	0.2	μ A
I_{Lb}	15	15	20	20	25	μ A
E_b	1.0	1.0	1.0	1.0	1.0	V
C	9	9	9	9	9	μ fd

maximum ratings

	1N659	1N660	1N661	
Peak Inverse Voltage at -65 to +150°C	50	100	200	V
Average Rectified Forward Current at +25°C	100	100	100	mA
Average Rectified Forward Current at +150°C	30	30	30	mA
Recurrent Peak Forward Current at +25°C	320	320	320	mA
Operating Temperature, Ambient	-65 to +150			°C
Altitude	100,000			ft

specifications

	1N659	1N660	1N661	
Minimum Breakdown Voltage at +100°C	60	120	240	V
Maximum Reverse Current at PIV at +25°C	5	5	10	μ A
Maximum Reverse Current at PIV at +100°C	25	50	100	μ A
Maximum Voltage Drop at $I_O = 6$ mA at 25°C	1	1	1	V
Maximum Reverse Recovery Time*	0.3	0.3	0.3	μ sec
Typical Capacitance at -10V at 1 mc	2.7	2.7	2.7	μ fd

Recovery time to 400K when switched from 30 mA forward current to -35V. Measurement made with a
Hauman ND-1 standard pulse recovery test set approved by JETEC-14 and described in JAN-256.

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CAMDEN • DAYTON • DENVER
DETROIT • OTTAWA • SYRACUSE • SAN DIEGO
WALTHAM • WASHINGTON D. C.



TEXAS INSTRUMENTS INCORPORATED

SEMICONDUCTOR - COMPONENTS DIVISION
POST OFFICE BOX 312 • DALLAS, TEXAS

DIODE TYPE	CASE	MAT.	INVERSE			FORWARD			TEMP.	
			E_{PEAK} v	I_{PEAK} mA @ 0 v	E_{CONT} v	I_{SURGE} mA	I_{HWR} mA @ 0.1v	OPER °C	MAX °C	

BRADLEY LABORATORIES, INC.

IN25FR	A	Si	10,000mc.	reversible polarity type							
IN25FP	C	Si	10,000mc.	max. conv. loss = 8db, max. noise ratio = 1.4							
IN25	D	Si	34,000mc.	max. conv. loss = 7.5db, max. noise ratio = 2.5							
IN70	F	Si	16,000mc.	max. conv. loss = 7.5db, max. noise ratio = 2.5							
IN149	F	Si	10,000mc.	max. conv. loss = 7.5db, max. noise ratio = 1.5							
IN415H	F	Si	10,000mc.	reversible polarity version of IN23P							
IN415C	F	Si	10,000mc.	reversible polarity version of IN23C							
IN415(I)	F	Si	10,000mc.	reversible polarity version of IN21D							
IN415E	F	Si	10,000mc.	reversible polarity version of IN23E							
IN416P	F	Si	3000mc.	reversible polarity version of IN21R							
IN416M	G	Si	3000mc.	matched pair							
IN416C	G	Si	3000mc.	reversible polarity version of IN21C							
IN416M	G	Si	3000mc.	matched pair							
IN416D	G	Si	30,000mc.	reversible polarity version of IN21D							
IN416M	G	Si	30,000mc.	matched pair							
IN416E	G	Si	3000mc.	reversible polarity version of IN21E							
IN416M	G	Si	3000mc.	matched pair							

BRADLEY LABORATORIES, INC., 100 Columbia Ave., New Haven 11, Connecticut

IN536	A	Si	50	5	15A	500	150	200			
IN537	A	Si	100	5	70	15A	500	150	200		
IN538	A	Si	200	5	140	15A	500	150	200		
IN539	A	Si	300	5	210	15A	500	150	200		
IN540	A	Si	400	5	280	15A	500	150	200		
IN607	R	Si	50	5	35	15A	500	150	200		
IN608	R	Si	100	5	70	15A	500	150	200		
IN609	R	Si	150	5	105	15A	500	150	200		
IN610	R	Si	200	5	140	15A	500	150	200		
IN611	R	Si	300	5	210	15A	500	150	200		
IN612	R	Si	400	5	280	15A	500	150	200		
IN613	R	Si	500	5	350	15A	500	150	200		
IN614	R	Si	600	5	420	15A	500	150	200		
IN615	R	Si	500	5	350	15A	500	150	200		
IN616	R	Si	600	5	420	15A	500	150	200		
IN617	R	Si	500	5	350	15A	500	150	200		
IN618	R	Si	600	5	420	15A	500	150	200		

CBS-HYTRON, Division of CBS Inc., Semiconductor Operations, Lowell, Mass.

IN34A	A	G	75	30010	60	500	5	25	75		
IN35	A	G	75	10010	50	500	5	25	75		
IN36	A	G	225	20010	90	200	5	25	75		
IN40	A	G	75	35010	25		12.7501.5	25	75		
IN42	A	G	120	80010	100	400	4	25	75		
IN48	A	G	85	833050	70	400	4	25	75		
IN51	A	G	50	1660050	100	100	2.5	25	75		
IN52	A	G	85	150050	70	400	4	25	75		
IN54A	A	G	75	7010	50	500	5	25	75		
IN54A	A	G	170	10010	150	500	4	25	75		
IN55A	A	G	190	50010	150	500	5	25	75		
IN56A	A	G	50	30030	40	1A	15	25	75		
IN58A	A	G	120	60010	100	500	5	25	75		
IN60	A	G	75	67010	25	500	3	25	75		
IN63	A	G	125	500050	100	400	4	25	75		
IN64	A	G	20	20010	15	400	4	25	75		
IN65	A	G	85	200050	70	400	2.5	25	75		
IN67A	A	G	100	505	80	500	4	25	75		
IN69A	A	G	75	30010	60	400	5.25	25	75		
IN70A	A	G	125	25010	100	350	3	25	75		
IN71	A	G	50	10030	40	1A	15	25	75		
IN73	A	G	75	50010	75	100	15	70	100		
IN74	A	G	75	50010	75	100	15	70	100		
IN75	A	G	125	500050	100	400	2.5	25	75		
IN81A	A	G	50	10010	40	350	3	25	75		
IN82A	A	G	5								
IN90	A	G	75	800050	60	500	5	25	75		
IN116	A	G	75	100050	60	250	5	25	90		
IN126A	A	G	75	50010	60	350	5	25	90		
IN127A	A	G	125	25010	100	300	3	25	90		
IN128	A	G	50	10010	40	300	3	25	75		
IN191	A	G	90	25010	40	400	5	25	90		
IN198	A	G	100	10010	80	300	4	25	90		
IN497	A	G	25	20020	20	100	25	75			
IN498	A	G	50	25040	40	100	25	75			
IN499	A	G	65	30050	50	100	25	75			
IN500	A	G	75	40000	60	100	25	75			
IN501	A	G	100	40080	80	100	25	75			
IN502	A	G	125	400100	100	100	25	75			
IN636	A	G	60	10010	40	400	2.5	25	75		
IN637	A	G	30	15030	30	100	14.35	25	75		
IN644	A	G	90	80080	80	300	4	25	75		
DT46	A	G	15	3001.5	15		14.12	25	75		
DT51	A	G	90		60		50	25	75		
DT31	A	G		20020			50.60	70	75		
LD38	A	G		150025			100	25	75		
LD105	A	G	105		80		100	25	75		
LD106	A	G	53		35		1000.7	25	75		
LD107	A	G	65		50		100	25	75		

CLEVITE TRANSISTOR PRODUCTS, 241-257 Crescent St., Waltham 54, Mass.

IN34A	A	G	75	500050	60	500	5	25	90		
IN38	A	G	125	6250100	100	500	3	25	90		
IN38A	A	G	125	5000100	100	500	5	25	90		
IN52	A	G	85	150050	70	400	5	25	90		

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DIODE TYPE	CASE	MAT.	INVERSE			FORWARD			TEMP.	
			E_{PEAK} v	I_{PEAK} mA @ 0 v	E_{CONT} v	I_{SURGE} mA	I_{HWR} mA @ 0.1v	OPER °C	MAX °C	

CLEVITE TRANSISTOR PRODUCTS

IN54	A	G	75	10010	35	500	5	25	90		
IN54A	A	G	75	100050	50	500	5	25	90		
IN55	A	G	170	8000150	150	500	5	25	90		
IN55A	A	G	170	5000150	150	500	5	25	90		
IN55R	A	G	190	5000150	150	500	5	25	90		
IN56	A	G	40	100030	70	400	15	75	90		
IN56A	A	G	50	300030	40	500	15	75	90		
IN58A	A	G	125	6000100	100	500	5	25	90		
IN63	A	G	125	50050	100	400	5	25	90		
IN65	A	G	85	200050	70	400	5	25	90		
IN66	A	G	70	800050	60	500	5	25	90		
IN67A	A	G	100	50050	80	300	5	25	90		
IN68A	A	G	130	6250100	100	300	5	25	90		
IN75	A	G	125	50050	100	400	5	25	90		
IN89	A	G	100	100080	80	300	5	25	90		
IN90	A	G	75	500050	60	300	5	25	90		
IN95	A	G	75	500050	60	300	10	75	90		
IN96	A	G	75	500050	60	250	20	75	90		
IN96A	A	G	75	500050	60	400	40	40	75		
IN97	A	G	100	100050	80	300	10	75	90		
IN98	A	G	100	100050	80	250	20	75	90		
IN98A	A	G	100	100050	80	400	40	40	75		
IN99	A	G	100	100050	80	300	20	75	90		
IN100	A	G	100	100050	80	300	20	75	90		
IN100A	A	G	100	50050	80	400	40	40	75		
IN107	A	G	15	200010	10	400	150	75	90		
IN108	A	G	65	200010	50	500	50	75	90		
IN111	A	G	75	125050	60	500	5	25	90		
IN112	A	G	75	250050	60	50					

DIODE TYPE	CASE	MAT.	INVERSE			FORWARD		TEMP.	
			V _{PEAK} v	I _{PEAK} ma d v	I _{CONT} v	I _{SURGE} ma	I _{MIN} ma 0 +1v	OPEN °C	MAX °C

CLAYTE TRANSISTOR PRODUCTS

1N501	A	G	100	2000	80	500	1000.8	75	90
1N502	A	G	120	200100	100	500	1000.8	75	90
1N503	B	S	200	100175	175	250	401.5	150	200
1N504	A	G	115	151010	100	500	1000.8	75	90
1N505	A	G	165	1750150	150	200	50	75	90
1N506	A	G	75	25050	50	400	40	75	90
1N507	A	G	60	100020	50	500	200	75	90
1N508	A	G	50	20030	40	500	300	75	90
1N509	A	G	40	20015	30	500	300	75	90
1N510	A	G	25	2000	20	500	300	75	90
1N511	A	G	130	80000	100	500	4	75	90
1N512	A	G	125	300100	100	450	100	75	90
1N513	A	G	75	100050	50	400	200	75	90
1N514	A	G	75	20050	60	450	100	75	90
1N515	A	G	125	180090	90	450	150	75	90
1N516	A	G	100	50050	80	300	5	75	90
1N517	A	G	75	120060	60	100	7.5	75	90
1N518	A	S-G	100	75050	80	400	100.5	75	90
1N519	A	S-G	25	10010	15	200	40	75	90
1N520	A	S-G	60	25050	50	350	100.5	75	90
1N521	A	S-G	20	10010	15	400	100	75	90
1N522	A	G	55	5010	45	450	150	75	90
1N523	A	G	60	150050	50	450	50	75	90
1N524	A	G	60	10010	50	450	40	75	90
1N525	A	G	50	200020	40	450	100	75	90
1N526	A	G	10	403	6	400	1.403	75	90
1N527	A	G	10	403	6	400	1.403	75	90
1N528	B	S	150	200100	100	500	2001.5	150	200
1N529	B	S	60	20050	50	1.5A	75	150	200
1N530	B	S	150	200125	125	300	501.5	150	200
1N531	B	S	40	20030	30	300	501.5	150	200
1N532	B	S	200	500175	175	300	501.5	150	200

PANFON METALLURGICAL CORP., Rectifier-Capacitor Div., North Chicago, Ill.

1A11	A	Si	50	3050	50	100	300	150	175
1A12	A	Si	100	30100	100	100	300	150	175
1A13	A	Si	150	30150	150	100	300	150	175
1A14	A	Si	200	30200	200	100	300	150	175
1A15	A	Si	250	30250	250	100	300	150	175
1A16	A	Si	300	30300	300	100	300	150	175
1A17	A	Si	350	30350	350	100	300	150	175
1A18	A	Si	400	30400	400	100	300	150	175
2A11	B	Si	50	3050	50	6A	300	150	175
2A12	B	Si	100	30100	100	6A	300	150	175
2A13	B	Si	150	30150	150	6A	300	150	175
2A14	B	Si	200	30200	200	6A	300	150	175
2A15	B	Si	250	30250	250	6A	300	150	175
2A16	B	Si	300	30300	300	6A	300	150	175
2A17	B	Si	350	30350	350	6A	300	150	175
2A18	B	Si	400	30400	400	6A	300	150	175

FERRANTI LTD., Hollinwood, Lancashire, England

ZR10	B	Si	50	50050	50	1.5A	130		
ZR11	B	Si	100	500100	100	1.5A	130		
ZR12	B	Si	200	500200	200	1.5A	130		
ZR20	C	Si	50	50050	50	5A01.2	130		
ZR21	C	Si	100	500100	100	5A01.2	130		
ZR22	C	Si	200	500200	200	5A01.2	130		
ZS10A	D	Si	60	50060	60	1000L	150	150	
ZS10B	D	Si	60	50060	60	1000L	150	150	
ZS20A	D	Si	120	500120	120	1000L	150	150	
ZS20B	D	Si	120	500120	120	1000L	150	150	
ZS21	A	Si	200	500200	200	1000L	150	150	
ZS22	A	Si	300	500300	300	1000L	150	150	
ZW2	A	Si	10	50010	10	1000L.3	125	150	

BABAGAN, INC., Waterman Ave., Esmond 17, Rhode Island

1N34	A	G	60	850-50	60	500	5	25	70
1N34A	A	G	60	5000-50	60	500	0.5	25	70
1N35	A	G	60	Matched 1N34	60	500	8.5	25	70
1N38	A	G	120	6250-100	100	500	5	25	70
1N38A	A	G	120	5000-100	100	500	5	25	70
1N39	A	G	425	2500-100	200	500	3	25	70
1N39A	A	G	225	1000-100	200	500	3	25	55
1N40	A	G	80	8000-50	70	400	5	25	70
1N51	A	G	60	13000-50	50	300	2.5	25	70
1N52	A	G	85	15000-50	70	400	5	25	70
1N54	A	G	45	100-10	35	500	5	25	70
1N54A	A	G	70	1000-50	50	500	5	25	70
1N55	A	G	175	8000-150	150	500	4	25	55
1N55A	A	G	175	5000-150	150	500	4	25	55
1N55B	A	G	175	3000-150	150	500	5	25	55
1N56A	A	G	50	3000-30	40	600	15	25	70
1N58	A	G	120	8000-100	100	500	5	25	70
1N58A	A	G	120	6000-100	100	500	5	25	70
1N59	A	G	275	8000-200	200	500	3	25	55
1N61	A	G	150	3000-100	130	500	5	25	55
1N63	A	G	125	500-50	100	400	5	25	70
1N67	A	G	100	500-50	80	500	4	25	70
1N67A	A	G	100	500-50	80	500	5	25	70
1N68A	A	G	125	6250-100	100	500	5	25	70
1N69	A	G	80	500-10	60	500	5	25	70
1N72	A	G		UMF Mixer Diode		Equivalent to 1N62 and 1N62A			
1N80	A	G	100	1000-50	85	500	5	25	70
1N89	A	G	100	1000-50	80	500	5	25	70
1N95	A	G	75	8000-50	60	500	10	25	70
1N96	A	G	75	5000-50	60	500	20	25	70
1N97	A	G	100	1000-50	80	500	10	25	70
1N98	A	G	100	1000-50	80	500	20	25	70
1N99	A	G	100	500-50	80	500	10	25	70
1N100	A	G	100	500-50	80	500	20	25	70
1N117	A	G	65	1000-50	60	500	10	25	70
1N118	A	G	75	1000-50	60	500	20	25	70
1N126	A	G	75	8500-50	60	500	5	25	70
1N127	A	G	120	3000-50	100	500	5	25	70
1N128	A	G	55	100-10	40	400	3	25	70
1N140	A	G	90	3000-50	70	500	40	25	70
1N141	A	G	90	500-50	70	500	20	25	70
1N142	A	G	120	1000-100	100	400	5	25	70
1N143	A	G	120	1000-100	100	500	40	25	70
1N148	A	G	65	2500-50	50	400	5	25	70
1N270	A	G	65	1000-50	50	500	200	25	70
1N271	A	G	45	200-20	30	500	100	25	70
1N272	A	G	125	5000-100	100	400	5	25	70
1N278	A	G	65	1250-50	70	500	20	75	85
1N279	A	G	45	2000-20	30	500	100	25	70
1N295	A	G	50	2000-10	40	300	3	25	70
1N298	A	G	90	2500-40	70	400	3002	25	70
1N447	A	G	45	600-30	50	500	25	25	70
1N448	A	G	120	1000-100	100	500	25	25	70
1N449	A	G	45	300-30	30	500	50	25	70
1N460	A	G	125	1000-100	100	500	50	25	70
1N451	A	G	175	1500-150	150	500	50	25	55
1N452	A	G	45	300-30	30	500	100	25	70

DIODE TYPE	CASE	MAT.	INVERSE			FORWARD		TEMP.	
			V _{PEAK} v	I _{PEAK} ma d v	I _{CONT} v	I _{SURGE} ma	I _{MIN} ma 0 +1v	OPEN °C	MAX °C

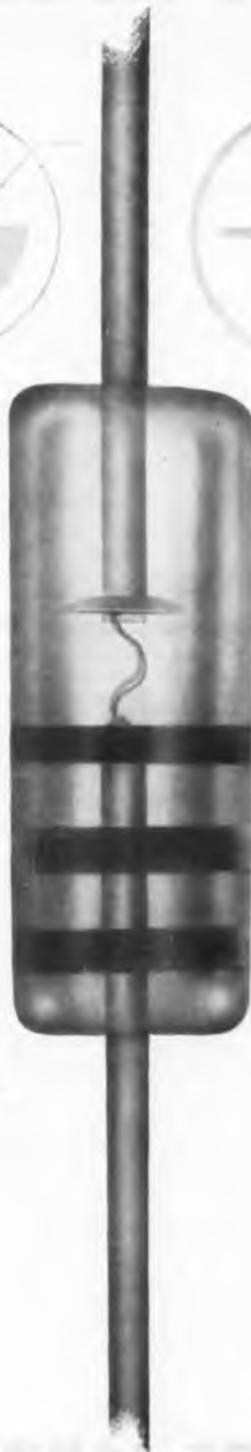
BABAGAN, INC.

1N453	A	G	120	1000-100	100	500	100	25	70
1N454	A	G	70	500-50	50	500	200	25	70
1N455	A	G	45	300-30	30	500	300	25	70
1N456	A	G	10	2500	10	500	300	5	70
1N457	A	G	60	200020	30	500	15	50	70
1N458	A	G	50	200	30	500	10	55	70
1N459	A	G	60	20032	35	500	10	25	70
1N460	A	G	60	5000100	50	500	100	25	55
1N461	A	G	200	6000200	200	500	100	25	55

GENERAL ELECTRIC CO., Semiconductor Dept., Syracuse, N.Y.

1N91	B	G	100	2.7ma(55°C)	30	25A		95	105
1N92	B	G	200	1.9ma(55°C)	65	25A		95	105
1N93	B	G	300	1.2ma(55°C)	100	25A		95	105
1N94	E	G	100	2.4ma(55°C)	30	25A		95	105
1N95	E	G	200	1.9ma(55°C)	65	25A		95	105
1N96	E	G	300	1.2ma(55°C)	100	25A		95	105
1N97	F	G	300	0.8ma(55°C)	185	25A		95	105
1N253	A	Si	95	10ma(135°C)	95	15A		150	150
1N254	A	Si	190	15ma(135°C)	190	15A		150	150
1N255	A	Si	380	15ma(135°C)	380	15A		150	150
1N256	A	Si	570	25ma(135°C)	570	15A		150	150
1N315	A	Si	100	30ma(55°C)	150	5A		85	95
1N316	B	Si	200	30ma(55°C)	150	10A		130	140
1N440	B	Si	100	30ma(25°C)	100	15A		150	

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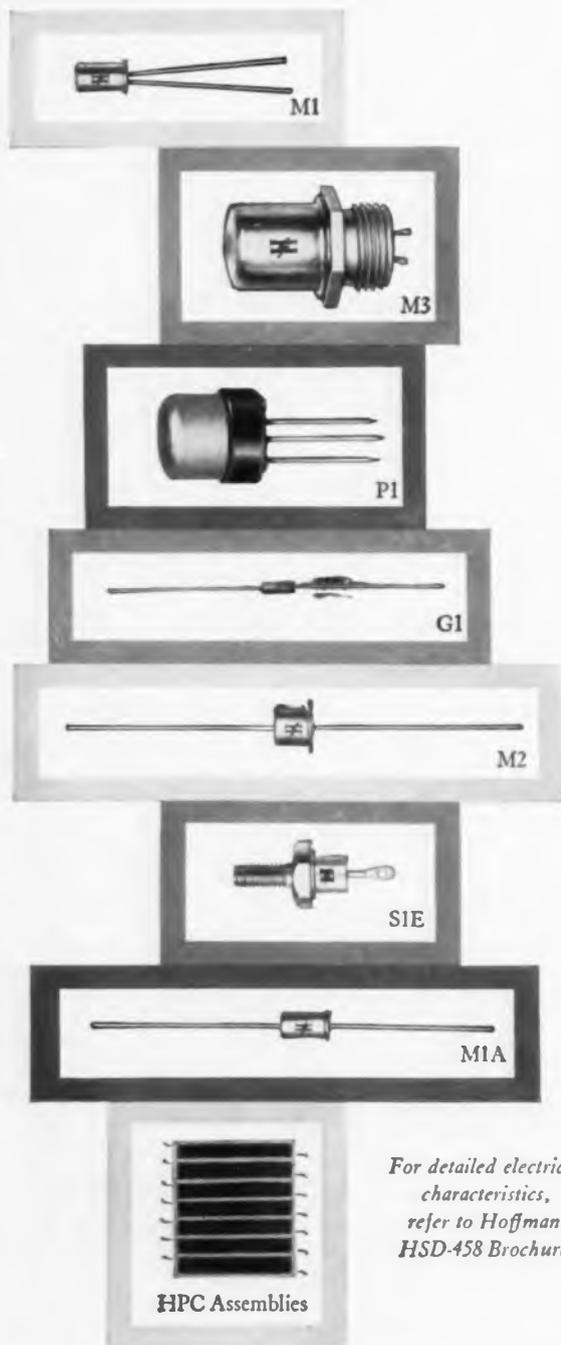
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Available in Case Types



For detailed electrical characteristics, refer to Hoffman HSD-458 Brochure

HPC Assemblies

General Purpose Silicon Junction Diodes

26 types — PIV Range — 6.8V thru 470V

Double Anode Silicon Junction Diodes

14 types — Zener Voltage Range: 3.0V thru 45V

Zener Reference Devices

OPERATING ZENER VOLTAGE

1N429 — 6.2V $\pm 5\%$

1N430, 1N430.A, 1N430B, 1N1530,

1N1530.A — 8.4V $\pm 5\%$

Silicon Junction "Glass" Diodes

General Purpose — 8 types

PIV Range — 25V thru 175V

Fast Recovery — 5 types

Zener Voltage Range: 30V thru 200V

Zener — 6 types

Zener Voltage Range: 2.0V thru 8.0V

Medium Power "Top Hat" Rectifiers

Axial Types — 6 types

PIV Range — 50V thru 500V

Stud Mounted Types — 8 types

PIV Range — 95V thru 570V

Medium Power Diffused Junction Rectifiers

12 types — PIV Range — 50V thru 1000V

Zener Diodes

21 types — Zener Voltage Range:

2.0V thru 145V

Silicon Junction Zener Power Regulators

44 types — Zener Voltage Range:

3.0V thru 200V

HB Silicon Junction Diodes

6 types — PIV Range — 6.8V thru 270V

Silicon Solar Cell Assemblies

Ranging in size and power from 0.1 square centimeter (1mW) to square yards (K watts)

M1

M1

M1

M3

P1

G1

G1

G1

M2

S1E

M1A

M1

S1E

M1

Hoffman Electronics

CORPORATION

SEMICONDUCTOR DIVISION

930 Pitner Avenue • Evanston, Ill. • UNiversity 9-9850



DIODE TYPE	CASE	MAT.	INVERSE			FORWARD		TEMP.	
			E_{PEAK} V	I_{PEAK} mA @ 0.1 s	E_{CONT} V	I_{SURGE} mA	$I_{M/N}$ mA @ 0.1 s	OPER °C	MAX °C

HOFFMAN SEMICONDUCTOR DIV.

IN217	A	Si	200	50180	180	6.504V	150	200
IN218	A	Si	250	50220	220	6.04	150	200
IN219	A	Si	300	50270	270	3.04	150	200
IN220	A	Si	370	50310	330	2.204	150	200
IN221	A	Si	430	50360	390	2.04	130	200
IN222	A	Si	520	50470	470	1.504	150	200
IN225	A	Si	7.5	506.8	Tw. An	7.5 to 10V@ 2ma	150	200
IN226	A	Si	9	508.2	Tw. An	9 to 12V@ 2ma	150	200
IN227	A	Si	11	501.0	Tw. An	11 to 14.5V@ 2ma	150	200
IN228	A	Si	11.5	501.2	Tw. An	13.5 to 18V@ 2ma	150	200
IN229	A	Si	17	501.5	Tw. An	17 to 21V@ 2ma	150	200
IN230	A	Si	20	101.8	Tw. An	20 to 27V@ 2ma	150	200
IN231	A	Si	25	102.2	Tw. An	25 to 32V@ 2ma	150	200
IN232	A	Si	30	102.7	Tw. An	30 to 36V@ 2ma	150	200
IN233	A	Si	37	103.3	Tw. An	37 to 45V@ 2ma	150	200
IN233	D	Si	100	1007.5	75	4000	1A01.5	135 150
IN254	D	Si	200	1001.50	150	1500	50001.5	135 150
IN255	D	Si	400	1003.50	350	400	50001.5	135 150
IN256	D	Si	600	2005.00	500	1002	50002.0	200 200
IN429	A	Si	Zener reference 1.9-6.5V@ 5ma				200 200	
IN430	G	Si	Zener reference 0.0-8.4V@ 10ma				150 200	
IN431	A	Si	75	101.5	68	200	0.50 501	150 200
IN436	F	Si	30	025025	25	700	40	200 200
IN457	F	Si	70	025060	60	600	20	200 200
IN458	F	Si	150	0250125	125	500	7	200 200
IN459	F	Si	200	0250175	175	400	3	200 200
IN461	F	Si	30	1025	25	900	15	200 200
IN462	F	Si	70	5000	60	800	5	200 200

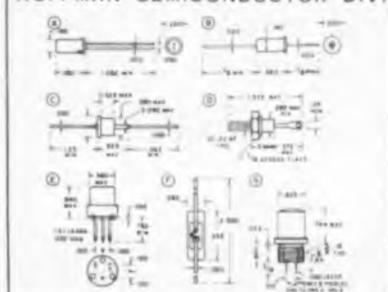
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DIODE TYPE	CASE	MAT.	INVERSE			FORWARD		TEMP.	
			E_{PEAK} V	I_{PEAK} mA @ 0.1 s	E_{CONT} V	I_{SURGE} mA	$I_{M/N}$ mA @ 0.1 s	OPER °C	MAX °C

HOFFMAN SEMICONDUCTOR DIV.

IN463	F	Si	100	50175	175	700	1	200 200
IN464	F	Si	150	50125	125	700	3	200 200
IN465	A	Si	Zener	750	2.0-3.2V@ 5ma		500.9	150 200
IN466	A	Si	Zener	500	3.0-3.9V@ 5ma		500.9	150 200
IN467	A	Si	Zener	50	3.7-4.5V@ 5ma		350.9	150 200
IN468	A	Si	Zener	501.5	4.3-5.4V@ 5ma		350.9	150 200
IN469	A	Si	Zener	501.5	5.2-6.4V@ 5ma		55	150 200
IN470	A	Si	Zener	503.5	6.2-8.0V@ 5ma		55	150 200
IN471	A	Si	Tw. an. Zener	500	3.0-3.9V@ 5ma			150 200
IN472	A	Si	Tw. an. Zener	501	3.7-4.5V@ 5ma			150 200
IN473	A	Si	Tw. an. Zener	501.5	4.3-5.4V@ 5ma			150 200
IN474	A	Si	Tw. an. Zener	501.5	5.2-6.4V@ 5ma			150 200
IN475	A	Si	Tw. an. Zener	503.5	6.2-8.0V@ 5ma			150 200
IN536	C	Si	Tw. an. Zener	100			15A	165 175
IN537	C	Si	Tw. an. Zener	200			15A	165 175
IN538	C	Si	Tw. an. Zener	300			15A	165 175
IN539	C	Si	Tw. an. Zener	400			15A	165 175
IN540	C	Si	Tw. an. Zener	400			15A	165 175
IN625	F	Si	30	1010	25			401.5 135 150
IN626	F	Si	50	20035	35			401.5 135 150
IN627	F	Si	100	20075	75			401.5 135 150
IN628	F	Si	150	200125	125			401.5 135 150
IN629	F	Si	200	200175	175			401.5 135 150
IN1095	C	Si		30175	500	15A		150 175
IN1115	D	Si	100	4000100	100	15A		150 150
IN1116	D	Si	200	4000100	200	15A		150 150
IN1117	D	Si	300	4000200	300	15A		150 150
IN1118	D	Si	400	6000400	400	15A		150 150
IN1251	B	Si	70	500	50	5A		175 175

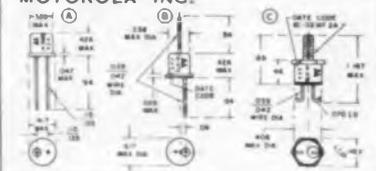
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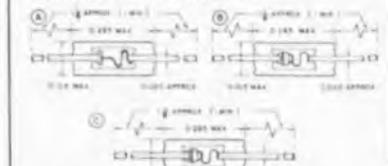
INTERNATIONAL RESISTANCE CO.



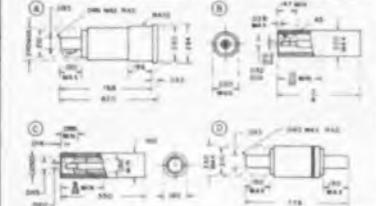
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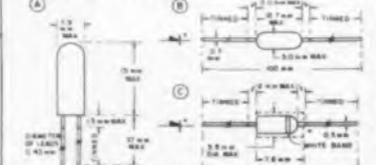
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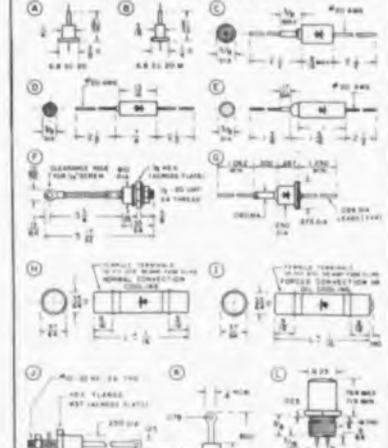
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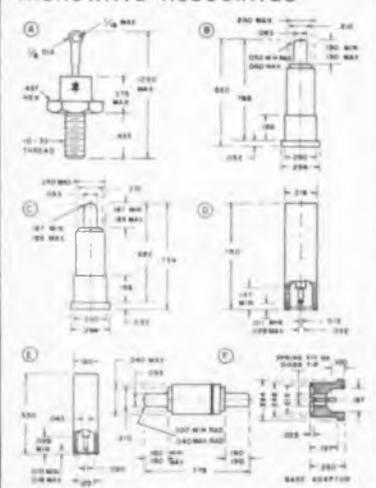
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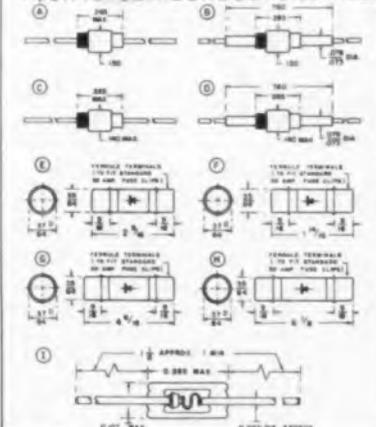
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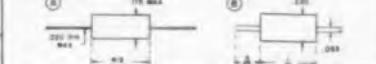
MICROWAVE ASSOCIATES



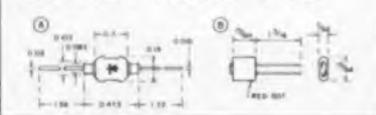
PACIFIC SEMICONDUCTORS INC.



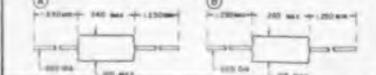
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RADIO RECEPTOR CO.



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(MIL-E-1/1084A)

JAN
1N540
(MIL-E-1/1085A)

JAN
1N547
(MIL-E-1/1083A)

now from

AUTOMATIC

Maximum Values for AUTOMATIC Military Type Silicon Rectifiers
designed to meet the new JAN MIL-E-1 Specification

Type No.	Peak Reverse Voltage (VDC)	DC Output Current @ 25° C. Ambient (MA)	DC Output Current @ 150° C. Ambient (MA)	Maximum Reverse Current* (MA)	Mounting	MIL-E-1 Technical Spec. Sheet No.
JAN 1N538	200	750	250	0.350	Axial lead	1084A
JAN 1N540	400	750	250	0.350	Axial lead	1085A
JAN 1N547	600	750	250	0.350	Axial lead	1083A

*Averaged over 1 cycle for inductive or resistive load with
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DIODE TYPE	CASE	MAT.	INVERSE			FORWARD		TEMP.	
			I_{PEAK} v	I_{PEAK} ma @ v	E_{CMT} v	I_{SURGE} ma	I_{MTR} ma @ +1v	OPER °C	MAX °C

ROFFMAN ELECTRONIC DIV.									
IN232	B	Si	125	500	100	SA	175	175	
IN233	B	Si	250	500	200	SA	175	175	
IN234	B	Si	500	500	400	SA	175	175	
IN235	B	Si	500	500	400	SA	175	175	
IN235A	B	Si	500	500	400	SA	175	175	
IN236	B	Si	625	400	500		150	175	
IN237	B	Si	750	300	600		150	175	
IN238	B	Si	850	200	700		150	175	
IN239	B	Si	950	100	800		150	175	
IN240	B	Si	1050	100	900		150	175	
IN241	B	Si	1150	100	1000		150	175	
IN242	A	Si	Zener	500	0.2mm		7.5-10	150	200
IN243	A	Si	Zener	500	0.2mm		9-12	150	200
IN244	A	Si	Zener	5010	0.2mm		11-14.5	150	200
IN245	A	Si	Zener	5012	0.2mm		13.5-18	150	200
IN246	A	Si	Zener	5015	0.2mm		17-21	150	200
IN247	A	Si	Zener	1018	0.2mm		20-27	150	200
IN248	A	Si	Zener	1022	0.2mm		25-32	150	200
IN249	A	Si	Zener	1027	0.2mm		30-39	150	200
IN250	A	Si	Zener	1033	0.2mm		37-45	150	200
IN251	A	Si	Zener	1039	0.2mm		43-54	150	200
IN252	A	Si	Zener	1047	0.2mm		52-64	150	200
IN253	A	Si	Zener	1056	0.2mm		62-80	150	200
IN254	A	Si	Zener	1068	0.2mm		75-100	150	200
IN255	A	Si	Zener	1082	0.2mm		90-120	150	200
IN256	A	Si	Zener	10100	0.2mm		110-145	150	200
IN257	D	Si	Zener regulator	10v	10ma	500ma		155	155
IN258	D	Si	Zener regulator	10v	10ma	500ma		155	155
IN259	D	Si	Zener regulator	11v	10ma	500ma		155	155
IN260	D	Si	Zener regulator	12v	10ma	500ma		155	155
IN261	D	Si	Zener regulator	13v	10ma	500ma		155	155
IN262	D	Si	Zener regulator	15v	10ma	500ma		155	155
IN263	D	Si	Zener regulator	15v	10ma	500ma		155	155
IN264	D	Si	Zener regulator	15v	10ma	500ma		155	155
IN265	D	Si	Zener regulator	16v	10ma	500ma		155	155
IN266	D	Si	Zener regulator	18v	10ma	500ma		155	155
IN267	D	Si	Zener regulator	18v	10ma	500ma		155	155
IN268	D	Si	Zener regulator	20v	10ma	500ma		155	155
IN269	D	Si	Zener regulator	22v	10ma	500ma		155	155
IN270	D	Si	Zener regulator	22v	10ma	500ma		155	155
IN271	D	Si	Zener regulator	24v	10ma	500ma		155	155
IN272	D	Si	Zener regulator	24v	10ma	500ma		155	155
IN273	D	Si	Zener regulator	27v	10ma	500ma		155	155
IN274	D	Si	Zener regulator	27v	10ma	500ma		155	155
IN275	D	Si	Zener regulator	30v	10ma	500ma		155	155
IN276	D	Si	Zener regulator	30v	10ma	500ma		155	155
IN277	D	Si	Zener regulator	33v	10ma	500ma		155	155
IN278	D	Si	Zener regulator	33v	10ma	500ma		155	155
IN279	D	Si	Zener regulator	36v	10ma	500ma		155	155
IN280	D	Si	Zener regulator	36v	10ma	500ma		155	155
IN281	D	Si	Zener regulator	39v	10ma	500ma		155	155
IN282	D	Si	Zener regulator	39v	10ma	500ma		155	155
IN283	D	Si	Zener regulator	43v	10ma	500ma		155	155
IN284	D	Si	Zener regulator	43v	10ma	500ma		155	155
IN285	D	Si	Zener regulator	47v	10ma	500ma		155	155
IN286	D	Si	Zener regulator	51v	10ma	500ma		155	155
IN287	D	Si	Zener regulator	51v	10ma	500ma		155	155
IN288	D	Si	Zener regulator	51v	10ma	500ma		155	155
IN289	D	Si	Zener regulator	56v	10ma	500ma		155	155
IN290	D	Si	Zener regulator	62v	10ma	500ma		155	155
IN291	D	Si	Zener regulator	68v	10ma	500ma		155	155
IN292	D	Si	Zener regulator	75v	10ma	500ma		155	155
IN293	D	Si	Zener regulator	82v	10ma	500ma		155	155
IN294	D	Si	Zener regulator	91v	10ma	500ma		155	155
IN295	D	Si	Zener regulator	100v	10ma	500ma		155	155
IN296	E	Si	8.4-volt Zener reference	80	10ma	100ma		20	90
IN297	E	Si	4-volt Zener reference	40	10ma	100ma		25	100
IN298	F	Si	Zener voltage 2.0-3.285ma					200	200
IN299	F	Si	Zener voltage 1.0-3.945ma					200	200
IN300	F	Si	Zener voltage 3.7-4.545ma					200	200
IN301	F	Si	Zener voltage 4.4-4.85ma					200	200
IN302	F	Si	Zener voltage 5.2-4.445ma					200	200
IN303	F	Si	Zener voltage 6.2-4.045ma					200	200
IN304	A	Si	6.8	0.05ma	0.3	6.8	170	100	150
IN305	A	Si	10	0.05ma	0.3	10	5	100	150
IN306	A	Si	30	0.10ma	0.20	30	2.7	100	150
IN307	A	Si	68	0.20ma	0.34	68	0.9	100	150
IN308	A	Si	150	0.40ma	0.62	150	3.0	100	150
IN309	A	Si	270	0.75ma	0.91	270	1.5	100	150

ROFFMAN AIRCRAFT CO., Semiconductor Division, Los Angeles 45, California									
DIODE TYPE	CASE	MAT.	I_{PEAK} v	I_{PEAK} ma @ v	E_{CMT} v	I_{SURGE} ma	I_{MTR} ma @ +1v	OPER °C	MAX °C
IN67A	A	G	100	500S0	80	300	4	90	
IN68A	A	G	130	625S100	100	350	5	90	
IN69	A	G	100	100S10	80	250	3.5	90	
IN70	A	G	75	500S050	60	250	5	90	
IN71	A	G	75	500S050	60	250	10	90	
IN72	A	G	75	500S050	60	250	10	90	
IN73	A	G	75	500S050	60	250	10	90	
IN74	A	G	100	100S050	80	250	10	90	
IN75	A	G	100	100S050	80	250	10	90	
IN76	A	G	75	500S050	60	250	5	90	
IN77	A	G	75	500S050	60	250	5	90	
IN78	A	G	75	500S050	60	250	5	90	
IN79	A	G	75	500S050	60	250	5	90	
IN80	A	G	75	500S050	60	250	5	90	
IN81	A	G	75	500S050	60	250	5	90	
IN82	A	G	75	500S050	60	250	5	90	
IN83	A	G	75	500S050	60	250	5	90	
IN84	A	G	75	500S050	60	250	5	90	
IN85	A	G	75	500S050	60	250	5	90	
IN86	A	G	75	500S050	60	250	5	90	
IN87	A	G	75	500S050	60	250	5	90	
IN88	A	G	75	500S050	60	250	5	90	
IN89	A	G	75	500S050	60	250	5	90	
IN90	A	G	75	500S050	60	250	5	90	
IN91	A	G	75	500S050	60	250	5	90	
IN92	A	G	75	500S050	60	250	5	90	
IN93	A	G	75	500S050	60	250	5	90	
IN94	A	G	75	500S050	60	250	5	90	
IN95	A	G	75	500S050	60	250	5	90	
IN96	A	G	75	500S050	60	250	5	90	
IN97	A	G	75	500S050	60	250	5	90	
IN98	A	G	75	500S050	60	250	5	90	
IN99	A	G	75	500S050	60	250	5	90	
IN100	A	G	75	500S050	60	250	5	90	
IN101	A	G	75	500S050	60	250	5	90	
IN102	A	G	75	500S050	60	250	5	90	
IN103	A	G	75	500S050	60	250	5	90	
IN104	A	G	75	500S050	60	250	5	90	
IN105	A	G	75	500S050	60	250	5	90	
IN106	A	G	75	500S050	60	250	5	90	
IN107	A	G	75	500S050	60	250	5	90	
IN108	A	G	75	500S050	60	250	5	90	
IN109	A	G	75	500S050	60	250	5	90	
IN110	A	G	75	500S050	60	250	5	90	
IN111	A	G	75	500S050	60	250	5	90	
IN112	A	G	75	500S050	60	250	5	90	
IN113	A	G	75	500S050	60	250	5	90	
IN114	A	G	75	500S050	60	250	5	90	
IN115	A	G	75	500S050	60	250	5	90	
IN116	A	G	75	500S050	60	250	5	90	
IN117	A	G	75	500S050	60	250	5	90	
IN118	A	G	75	500S050	60	250	5	90	
IN119	A	G	75	500S050	60	250	5	90	
IN120	A	G	75	500S050	60	250	5	90	
IN121	A	G	75	500S050	60	250	5	90	
IN122	A	G	75	500S050	60	250	5	90	
IN123	A	G	75	500S050	60	250	5	90	
IN124	A	G	75	500S050	60	250	5	90	
IN125	A	G	75	500S050	60	250	5	90	
IN126	A	G	75	500S050	60	250	5	90	
IN127	A	G	75	500S050	60	250	5	90	
IN128	A	G	75	500S050	60	250	5	90	
IN129	A	G	75	500S050	60	250	5	90	
IN130	A	G	75	500S050	60	250	5	90	
IN131	A	G	75	500S050	60	250	5	90	
IN132	A	G	75	500S050	60	250	5	90	
IN133	A	G	75	500S050	60	250	5	90	
IN134	A	G	75	500S050	60	250	5	90	
IN135	A	G	75	500S050	60	250	5	90	
IN136	A	G	75	500S050	60	250	5	90	
IN137	A	G	75	500S050	60	250	5	90	
IN138	A	G	75	500S050	60	250	5	90	
IN139	A	G	75	500S050	60	250	5	90	
IN140	A	G	75	500S050	60	250	5	90	
IN141	A	G	75	500S050	60	250	5	90	
IN142	A	G	75	500S050	60	250	5	90	
IN143	A	G	75	500S050	60	250</			

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PSI also offers a broad line of Silicon and Germanium Diodes, Very High Voltage Silicon Cartridge Rectifiers, Varicaps (voltage-variable capacitors) and Diode Test Equipment.

DIODE TYPE	CASE	MAT.	INVERSE		FORWARD		TEMP.	
			$I_{P\text{EAR}}$ mA	$I_{P\text{EAR}}$ mA	$I_{F\text{ORW}}$ mA	$I_{M\text{IN}}$ mA	OPER °C	MAX °C

INTERNATIONAL RECTIFIERS CORP.								
1N1145	H	Si	7200	2507200	60*	75	170	
1N1146	H	Si	8000	2508000	45*	75	170	
1N1147	H	Si	12000	25012000	45*	75	170	
1N1148	H	Si	14000	25014000	50*	75	170	
1N1149	H	Si	16000	25016000	45*	75	170	
1N1406	D	Si	600	10A	100*	75	150	
1N1407	D	Si	800	10B00	10A	100*	75	150
1N1408	D	Si	1200	10C00	10A	100*	75	150
1N1409	D	Si	1500	10D00	10A	100*	75	150
1N1410	F	Si	1800	10E00	10A	100*	75	150
1N1411	F	Si	1800	10F00	10A	100*	75	150
1N1412	F	Si	2000	10G00	10A	100*	75	150
1N1413	F	Si	2400	10H00	10A	100*	75	150
CF1R10M	I	Si	1500	2501500	300*	75	170	
CF1R12M	I	Si	1800	2501800	360*	75	170	
CF1R16M	I	Si	2400	2502400	370*	75	170	
CF1R18M	I	Si	3600	2503600	330*	75	170	
CF1R24M	I	Si	4800	2504800	330*	75	170	
CF1R30M	I	Si	6000	2506000	290*	75	170	
CF1R36M	I	Si	7200	2507200	290*	75	170	
CF1R40M	I	Si	8000	2508000	250*	75	170	
FF1A5M	I	Si	1500	2501500	440*	75	170	
FF1A6M	I	Si	1800	2501800	420*	75	170	
FF1A8M	I	Si	2400	2502400	380*	75	170	
FF1R12M	I	Si	3600	2503600	360*	75	170	
FF1R16M	I	Si	4800	2504800	320*	75	170	
FF1C20M	I	Si	6000	2506000	360*	75	170	
FF1C24M	I	Si	7200	2507200	330*	75	170	
FF1D30M	I	Si	12000	25012000	270*	75	170	
FF1D35M	I	Si	14000	25014000	300*	75	170	
FF1D40M	I	Si	16000	25016000	250*	75	170	
200S5	I	Si	50	H.V. rectifier	200*	150		
200T7	I	Si	75	H.V. rectifier	200*	150		
200C15	I	Si	100	H.V. rectifier	200*	150		
200C20	I	Si	150	H.V. rectifier	200*	150		
200C30	I	Si	200	H.V. rectifier	200*	150		
200C40	I	Si	300	H.V. rectifier	200*	150		
200C50	I	Si	400	H.V. rectifier	200*	150		
200C70	I	Si	500	H.V. rectifier	200*	150		
200C80	I	Si	600	H.V. rectifier	200*	150		
25H5	I	Si	50	Power rectifier	45*	200		
2M10	I	Si	100	Power rectifier	45*	200		
25H15	I	Si	150	Power rectifier	45*	200		
25H20	I	Si	200	Power rectifier	45*	200		
25H25	I	Si	250	Power rectifier	45*	200		
25H30	I	Si	300	Power rectifier	45*	200		
25H35	I	Si	350	Power rectifier	45*	200		
25H40	I	Si	400	Power rectifier	45*	200		
25H50	I	Si	500	Power rectifier	45*	200		
2K1	G	Si	100	1000100	10A	300*	100	150
2K1A	G	Si	100	8000100	15A	500*	100	150
2K2	G	Si	200	1000200	10A	300*	100	150
2K2A	G	Si	200	8000200	15A	500*	100	150
2K3	G	Si	300	1000300	10A	300*	100	150
2K3A	G	Si	300	8000300	15A	500*	100	150
2K4	G	Si	400	1000400	10A	300*	100	150
2K4A	G	Si	400	8000400	15A	500*	100	150
2K5	G	Si	500	1000500	10A	300*	100	150
2K5A	G	Si	500	8000500	15A	500*	100	150
45L5	F	Si	50	Power rectifier	150*	200		
45L10	F	Si	100	Power rectifier	150*	200		
45L15	F	Si	150	Power rectifier	150*	200		
45L20	F	Si	200	Power rectifier	150*	200		
45L25	F	Si	250	Power rectifier	150*	200		
45L30	F	Si	300	Power rectifier	150*	200		
45L35	F	Si	350	Power rectifier	150*	200		
45L40	F	Si	400	Power rectifier	150*	200		
45L45	F	Si	450	Power rectifier	150*	200		
45L50	F	Si	500	Power rectifier	150*	200		
45L60	F	Si	600	Power rectifier	150*	200		
45L70	F	Si	700	Power rectifier	150*	200		
45L80	F	Si	800	Power rectifier	150*	200		
3Z1	Si		3.5 watt Zener diode	3.6-4.3v	850ma max.			
3Z4	Si		3.5 watt Zener diode	4.3-5.1v	700ma max.			
3Z5	Si		3.5 watt Zener diode	5.1-6.2v	625ma max.			
3Z6	Si		3.5 watt Zener diode	6.2-7.5v	525ma max.			
3Z8	Si		3.5 watt Zener diode	7.5-9.1v	425ma max.			
3Z10	Si		3.5 watt Zener diode	4.1-11.3v	350ma max.			
3Z12	Si		3.5 watt Zener diode	11-13.3v	275ma max.			
3Z15	Si		3.5 watt Zener diode	13-16v	225ma max.			
3Z18	Si		3.5 watt Zener diode	16-20v	200ma max.			
3Z22	Si		3.5 watt Zener diode	20-24v	160ma max.			
3Z27	Si		3.5 watt Zener diode	24-30v	125ma max.			
10Z1	Si		10 watt Zener diode	3.6-4.3v	2500ma max.			
10Z4	Si		10 watt Zener diode	4.3-5.1v	2000ma max.			
10Z5	Si		10 watt Zener diode	5.1-6.2v	1750ma max.			
10Z6	Si		10 watt Zener diode	6.2-7.5v	1500ma max.			
10Z8	Si		10 watt Zener diode	7.5-9.1v	1200ma max.			
10Z10	Si		10 watt Zener diode	9.1-11.3v	1000ma max.			
10Z12	Si		10 watt Zener diode	11-13.3v	850ma max.			
10Z15	Si		10 watt Zener diode	13-16v	650ma max.			
10Z18	Si		10 watt Zener diode	16-20v	550ma max.			
10Z22	Si		10 watt Zener diode	20-24v	450ma max.			
10Z27	Si		10 watt Zener diode	24-30v	350ma max.			
2Z1	Si		0.6 watt double anode	3.6-4.3v	100ma max.			
2Z2	Si		0.6 watt double anode	4.3-5.1v	150ma max.			
2Z5	Si		0.6 watt double anode	5.1-6.2v	120ma max.			
2Z6	Si		0.6 watt double anode	6.2-7.5v	100ma max.			
2Z7	Si		0.6 watt double anode	7.5-9.1v	85ma max.			
2Z10	Si		0.6 watt double anode	9.1-11.3v	65ma max.			
2Z12	Si		0.6 watt double anode	11-13.3v	50ma max.			
2Z15	Si		0.6 watt double anode	13-16v	40ma max.			
2Z18	Si		0.6 watt double anode	16-20v	30ma max.			
2Z22	Si		0.6 watt double anode	20-24v	25ma max.			
2Z27	Si		0.6 watt double anode	24-30v	20ma max.			
H2Z1	Si		5 watt mult. junc. Zener diode	24-30	2000ma max.			
H2Z3	Si		5 watt mult. junc. Zener diode	30-36	1500ma max.			
H2Z4	Si		5 watt mult. junc. Zener diode	43-51	1100ma max.			
H2Z6	Si		5 watt mult. junc. Zener diode	62-75	750ma max.			
H2Z10	Si		5 watt mult. junc. Zener diode	91-110	500ma max.			
H2Z15	Si		5 watt mult. junc. Zener diode	130-160	350ma max.			
6.8K20M	A		Variable capacitor	"Semarap" 6.8uF/10-10v dc.				
6.8K20M	B		Miniature variable capacitor	6.8uF/10-10v dc.				
1S1	Si		60	150-26	26	5	85	100
1S1	Si		120	150-52	52	5	85	100
1S1	Si		60	150-26	26	10	85	100
1T1	Si		120	150-52	52	10	85	100
1U1	Si		60	270-26	26	60	85	100
2U1	Si		120	270-52	52	80	85	100
3U1	Si		180	270-78	78	80	85	100
4U1	Si		240	270-104	104	80	85	100
5U1	Si		300	270-130	130	80	85	100
6U1	Si		360	270-156	156	80	85	100
7U1	Si		420	270-182	182	80	85	100
8U1	Si		480	270-208	208	80	85	100

DIODE TYPE	CASE	MAT.	INVERSE		FORWARD		TEMP.	
			$I_{P\text{EAR}}$ mA	$I_{P\text{EAR}}$ mA	$I_{F\text{ORW}}$ mA	$I_{M\text{IN}}$ mA	OPER °C	MAX °C

INTERNATIONAL RECTIFIERS CORP.									
1V1	Si		45	1000-26	26	250		85	100
2V1	Si		120	1000-52	52	250		85	100
3V1	Si		180	1000-78	78	250		85	100
4V1	Si		240	1000-104	104	250		85	100
5V1	Si		300	1000-130	130	250		85	100
1V1	Si		45	2400-26	26	550		85	100
2V1	Si		120	2400-52	52	550		85	100
T1HP	Si		48		33	10		35	100
T10HP	Si		4800		3300	10		35	100
L1HP	Si		48	1000-26	33	80	1.2	35	100
L10HP	Si		4800	1000-2600	3300	80	1.20100	35	100
V1HP	Si		48	2000-26	33	250	5	35	100
V15HP	Si		8400	2000-4550	5775	250	50175	35	100
V18HP	Si		48	15000-26	33	60		35	100
V100MS	Si		14400	15000-7800	9900	400	300	35	100
V1MS	Si		48	10000-26	33	32		35	100
V100MS	Si		14400	10000-7800	9900	400	320	35	100
V15HP	Si		48	5000-26	33	550	11	35	100
V175HP	Si		8400	5000-4550	5775	550	110175	35	100
Z1HP	Si		48	7000-26	33	20		35	100
Z10HP	Si		9600	7000-5200	6600	200	200	35	100

I_P - Peak current, I_M - Maximum case temperature.

INTERNATIONAL RESISTANCE CO., 401 N. Broad St., Philadelphia 9, Pa.									
9EA1	A	Si	65	10820	27	3	162	35	90
9EA125	B	Si	5750	1082500	2750	3	18250	35	90
19PA1	C	Si	46	7520	22	20	1082	35	90
19PA125	D	Si	5750	752500	2750	20	108250	35	90
25PA1	E	Si	46	17520	22	40	2082	35	90
25PA200	F	Si	9200	1754000	4400	40	208400	35	90
28PA1	G	Si	46	22520	22	60	3082	35	90
28PA200	H	Si	9200	2254000	4400	60	308400	35	90
44PA1	I	Si	46	55020	22	80	6082	35	90
44PA200	J	Si	9200	5504000	4400	80	608400	35	90

RAYTRON ELECTRONIC PRODUCTS, INC., 14 Prince Place, Newburyport, Mass.								
1N21	Si		1000ma	Max. Conv. Loss = 8.5db, Max. Noise Ratio = 4				
1N21A	Si		1000ma	Max. Conv. Loss = 7.5db, Max. Noise Ratio = 3				
1N21B	Si		1000ma	Max. Conv. Loss = 6.5db, Max. Noise Ratio = 2				</

**A PARTIAL LISTING OF INTERNATIONAL
...THE MOST EXTENSIVE**

ELECTRONIC TYPES FOR INDUSTRIAL AND MILITARY APPLICATIONS

**SILICON AND SELENIUM
LOW CURRENT TYPES
TO 1 AMP.**

***SPECIAL MILITARY TYPES**
Special configurations and high reliability rectifiers for military applications may be obtained under our "Prescribed Reliability" Program. Address your inquiry to: Military Products Dept.



MINIATURE SILICON POWER DIODES

Ratings: 100 to 600 PIV, up to 500 ma.
Specifically designed for missile and airborne equipment applications where miniaturization and reliability are prime factors. Hermetically sealed, all-welded, pigtail lead construction. Manufactured to meet the most rigid military requirements. Request Bulletin 58-203



PIGTAIL TYPE SILICON POWER DIODES

Ratings: 50 to 600 volts PIV • 250 to 700 ma.
An extensive line of silicon power diodes for military and industrial applications featuring all-welded, hermetically sealed construction. All designed and manufactured to meet the most rigid military requirements. For information on types for your application Contact Factory



STUD MOUNTED SILICON POWER DIODES

Ratings: 50 to 600 volts PIV • 400 ma. to 1 amp.
Industrial and military types including the 1N253, 1N254 and 1N255. Stud mounted, hermetically sealed, all-welded construction. Operating temperature range -55°C to +150°C. Designed and manufactured to meet most rigid military specifications. Bulletin 58-133C



SUB-MINIATURE SELENIUM DIODES

Ratings: 25 to 160 volts • 100µa to 11 ma.
Ideal components for bias supplies, sensitive relays, computers etc. High resistance, (10 megohms and higher at -10 volts). Excellent linear forward characteristics. Extremely small, low in cost. Encapsulated to resist adverse environmental conditions. Specify Bulletin 58-118



SELENIUM RECTIFIER STACKS

Ratings: From 100 ma. to 50 Amps.
Low forward voltage drop and low leakage characteristics make this series ideal for a wide variety of power applications. For details request Bulletin C-429, (25 volt cells); Bulletin 58-160, (45 to 52 volts per cell); and Bulletin 58-152, on high current density cells.



SELENIUM TV AND RADIO RECTIFIERS

Ratings: 25 to 150 volts AC, 50 to 1,200 ma. DC
The widest range in the industry! Designed for Radio, Television, TV booster, UHF receiver and experimental applications. Input ratings from 25 to 150 volts AC and up to 120 output current. Write for application information. Bulletin 58-170-A



SILICON TV RECTIFIERS

Ratings: 400 PIV, up to 750 ma.
SD-500. A hermetically sealed, all-welded silicon junction rectifier offering maximum reliability in the high temperature encountered in TV applications. Pigtail leads eliminate the need for brackets, blocks, etc., simplify installation. For complete data: Contact Factory.



HIGH VOLTAGE VARIABLE CAPACITOR

Ratings: 0 to 1000, 200 PIV DC
Semtrap's small size, light weight, high reliability and low power requirements make it ideal in automatic frequency control, frequency modulation oscillators and filter networks. All-welded hermetically sealed, shock-proof housing. Request Bulletin 58-205.

**SILICON AND SELENIUM
HIGH VOLTAGE TYPES**



HIGH VOLTAGE SILICON POWER DIODES

Ratings: 600 to 2400 volts PIV • 100 to 125 ma.
Three types available. Hermetically sealed, pigtail construction. Style J rated at 800 to 1000 volts PIV at 125 ma. Bulletin 58-138E. Styles K and L with PIV ratings from 600 to 2400 volts at 100 ma. dc output current are described in technical detail—Bulletin 58-157.



HIGH VOLTAGE SILICON CARTRIDGE RECTIFIERS

Ratings: 1500 to 16,000 volts PIV @ 45 to 440 ma.
Especially suited for miniaturized military equipment where optimum reliability is a prime factor. Standard types for normal convection cooling and high current types for forced air or oil cooling. Hermetically sealed, stainless steel housing. Request Bulletin 58-223



SELENIUM HIGH VOLTAGE CARTRIDGE RECTIFIERS

Ratings: 25 to 20,000 volts • 0.2 to 100 ma.
Designed for long life and reliability in half-wave, voltage doubler, bridge, center-tap circuits, and 3-phase circuit types. Phenolic cartridges and hermetically sealed types available. Operating temperature range -55°C to +100°C. For details specify Bulletin H-2.



SPECIAL HIGH VOLTAGE TYPES

Ratings: 12,500 volts PIV at 5 Amps.
Illustrated above is a typical rectifier of advanced design produced by International Rectifier Corporation for military application. Data on ruggedized silicon substitutes for many standard vacuum tubes may be obtained from our Military Products Department.

International

EXECUTIVE OFFICES: EL SEGUNDO, CALIF.

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RECTIFIERS FOR ALL DC REQUIREMENTS...FROM MICROWATTS TO MEGAWATTS!

RECTIFIER CORPORATION PRODUCTS

LINE OF QUALITY RECTIFIERS ON EARTH!

All designed and manufactured to meet the most rigid military requirements!

POWER TYPES FOR INDUSTRIAL AND MILITARY APPLICATIONS

<p>SILICON AND SELENIUM</p> <p>MEDIUM CURRENT TYPES</p> <p>TO 150 AMPS.</p>	 <p>SILICON RECTIFIER STACKS</p> <p>Utilizing junctions rated to 1.25 amps DC output. Typing starts removal of hermetically sealed junction diodes mounted on copper cooling fins, stacked to include the interconnections required for specific circuits. Junction ratings: 1.25 amps IJC output, 70 to 350 AC input volts rms. Request Bulletin SR-137A.</p>	 <p>12 AMP SILICON POWER DIODES</p> <p>Conservatively rated to provide a substantial safety factor in industrial applications. Hermetically sealed, all-welded case construction provides reliability over a long life. Types available in a wide voltage range. For details Contact Factory.</p>	 <p>25 AMP SILICON POWER DIODES</p> <p>Rating: 50 to 500 volts PIV • 25 to 45 Amps. Advanced ceramic technique assuring excellent thermal characteristics and mechanical stability are used in the production of these highly reliable, hermetically sealed rectifiers for military or industrial applications. For complete technical data, request Bulletin SR-300.</p>	 <p>150 AMP SILICON POWER DIODES</p> <p>Rating: 50 to 800 volts PIV • 45 to 150 Amps. An extensive series of standard and reverse polarity types. Optional mounting bases including machine thread and pipe thread types. Machine thread base types: Bulletin SR-300. Pipe thread base types: Bulletin SR-301. Complete stack assemblies: Bulletin SR-302.</p>	
	 <p>SILICON RECTIFIER STACKS</p> <p>Rating: 45 to 100 Amperes per Junction. Consisting of hermetically sealed junction diodes mounted on aluminum or copper cooling fins, stacked to include the interconnections required for specific circuits. Junction ratings: 45 to 150 amps average DC. Write for application data.</p>	 <p>250 AMP SILICON POWER DIODES</p> <p>Rating: 50 to 500 volts PIV • 75 to 250 Amps. Standard and reverse polarity types offered in a series of machine thread and pipe thread mounting styles. Complete assemblies in all circuit configurations also available. Rugged construction and hermetic sealing assure long life and reliability. Ask for Bulletin SR-300.</p>	 <p>SELENIUM HEAVY POWER RECTIFIERS</p> <p>Rating: 5 to 30,000 volts • 50 to 2,300 Amps. Specifically designed for industrial DC power needs. Patented construction insures assured long life. Descriptive bulletins available are: Bulletin C-349, (50 volt cells); Bulletin SR-140, (45 to 50 volts per cell) and Bulletin SR-151, on high current density cells.</p>	 <p>GERMANIUM POWER RECTIFIER JUNCTIONS</p> <p>Rating: 500 amperes • 20 to 60 volts rms. High capacity junctions especially designed for high current, low-voltage electrochemical installations. Air cooled, glass hermetically sealed junctions provide efficiency to 98.5%. Cast aluminum airflow housing offers maximum heat transfer. For details Contact Factory.</p>	
	<p>SILICON, SELENIUM AND GERMANIUM</p> <p>HIGH CURRENT TYPES</p> <p>TO 670 AMPS. PER JUNCTION</p>	 <p>SELENIUM CONTACT RECTIFIERS</p> <p>Complete series of AC and DC types. Designed to eliminate arcing and erosion across the contacts of relays, switches, etc. A complete series in each of three basic types: diode type, cartridge type and hermetically sealed type for industrial applications. For complete data: Bulletin SR-150-A.</p>	 <p>SILICON VOLTAGE REGULATION ZENER DIODES</p> <p>Rating: From 600 milliwatts to 10 watts. A complete series in 6 types. Miniature single junction types, multiple junction types and double anode wire, 750 milliwatt and 1 watt types. Bulletin SR-251, 3.5 and 10 watt types. Bulletin SR-252, Multiple junction 5 watt types. SR-253, Double anode types. SR-254.</p>	 <p>SILICON ZENER VOLTAGE REFERENCE ELEMENTS</p> <p>Temperature compensated for stability to $\pm 0.01\%^\circ\text{C}$. Extremely precise units for power supplies and voltage meters. Temperature compensated for constant stability over a temperature range of from -55°C to $+150^\circ\text{C}$. Manufactured to meet the most rigid military requirements. Types: 1N430, 1N430A, 1N430B. Bulletin SR-255.</p>	 <p>PHOTOELECTRIC CELLS AND SUN BATTERIES</p> <p>(Wide range of silicon and selenium types.) Self-generating cells available in standard and custom sizes, mounted or unmounted. For details on wide selection of minimum types, request Bulletin PC-649. Silicon solar cells in mounted and unmounted types are described in technical detail—specify Bulletin SR-156.</p>
		<p>SPECIAL SEMI-CONDUCTOR DEVICES</p>			

Rectifier Corp.

• OREGON 8-6281 • CABLE ADDRESS: RECTUSA

NEW YORK AREA OFFICE: 132 E. 70th St., TRafalgar 9-3330
 CHICAGO AREA OFFICE: 205 W. Wacker Dr., FRanklin 2-3888
 NEW ENGLAND AREA OFFICE: 17 Dunster St., Cambridge, Mass., UNiversity 4-6520
 PENNSYLVANIA AREA OFFICE: Suburban Square Building, Ardmore, Penn., Midway 9-1428



REPRESENTATIVES THROUGHOUT THE WORLD

Circle 112 on Inquiry Card, page 175

DIODE TYPE	CASE	MAT.	INVERSE			FORWARD		TEMP.	
			$E_{P\text{EAR}}$ V	$I_{P\text{EAR}}$ mA @ 0.5 V	E_{CONT} V	I_{SURGE} mA	I_{MFR} mA @ 0.1 V	OPER °C	MAX °C

MICROELECTRONIC PRODUCTS, INC.

IN79	B	Si	0 - 10,000mc	instrument rectifier					
IN81	B	Si	10010	40	150	3.5	25	75	
IN82	B	Si	5 N.F. < 10db						
IN82A	B	Si	5 N.F. < 15.5db						
IN149	A	Si	10,000mc	Max. Conv. Loss = 5.5db, Max. Noise Ratio = 1.5					
IN149M	A	Si	10,000mc	Matched Pair					
IN149R	A	Si	10,000mc	Matched Forward and Reverse Polarity					
IN149R	A	Si	10,000mc	Reverse Polarity Type					
IN150	A	Si	6750mc	Max. Conv. Loss = 6db, Max. Noise Ratio = 2					
IN150M	A	Si	6750mc	Matched Pair					
IN150MR	A	Si	6750mc	Matched Forward and Reverse Polarity					
IN150R	A	Si	6750mc	Reverse Polarity Type					
IN268	B	Si	40	850030	10	300	2.5	85	
IN294	B	Si	70	800850	60	500	3	100	
IN295	B	Si	50	700810	40	300		100	
IN435	B	Si	50	300830	40	1A	12, 58, 15	25, 75	

MICROELECTRONIC ASSOCIATES, INC., Burlington, Massachusetts

IN21R	B	Si	3000mc	mm. conv. loss = 6.5db, max. noise ratio = 2				
IN21RM	B	Si	3000mc	matched pair				
IN21RM	B	Si	3000mc	matched forward and reverse polarity				
IN21RM	B	Si	3000mc	reverse polarity type				
IN21C	B	Si	3000mc	mm. conv. loss = 5.5db, max. noise ratio = 1.5				
IN21CM	B	Si	3000mc	matched pair				
IN21CMR	B	Si	3000mc	matched forward and reverse polarity				
IN21CR	B	Si	3000mc	reverse polarity type				
IN21D	B	Si	30,000mc	mm. conv. loss = 5db, max. noise ratio = 1.3				
IN21DM	B	Si	30,000mc	matched pair				
IN21DMR	B	Si	30,000mc	matched forward and reverse polarity				
IN21DR	B	Si	30,000mc	reverse polarity type				
IN21E	B	Si	3000mc	mm. noise ratio = 5				
IN21EM	B	Si	3000mc	matched pair				
IN21EMR	B	Si	3000mc	matched forward and reverse polarity				
IN21ER	B	Si	3000mc	reverse polarity type				
IN21RE	B	Si	3000mc	Military version of IN41E				
IN23R	B	Si	10,000mc	mm. conv. loss = 6.5db, max. noise ratio = 2.7				
IN23RM	B	Si	10,000mc	matched pair				
IN23RM	B	Si	10,000mc	matched forward and reverse polarity				
IN23RM	B	Si	10,000mc	reverse polarity type				
IN23C	B	Si	10,000mc	mm. conv. loss = 5db, max. noise ratio = 1.7				
IN23CM	B	Si	10,000mc	matched pair				
IN23CMR	B	Si	10,000mc	matched forward and reverse polarity				
IN23CR	B	Si	10,000mc	reverse polarity type				
IN23D	B	Si	10,000mc	mm. conv. loss = 5db, max. noise ratio = 1.7				
IN23DM	B	Si	10,000mc	matched pair				
IN23DMR	B	Si	10,000mc	matched forward and reverse polarity				
IN23DR	B	Si	10,000mc	reverse polarity type				
IN23E	B	Si	10,000mc	calculated overall receiver noise fig. = 7.5				
IN23EM	B	Si	10,000mc	matched pair				
IN23EMR	B	Si	10,000mc	matched forward and reverse polarity				
IN23ER	B	Si	10,000mc	reverse polarity type				
IN23RE	B	Si	10,000mc	Military version of IN41E				
IN24	D	Si	25,000mc	mm. conv. loss = 8.5db, max. noise ratio = 2.5				
IN24M	D	Si	25,000mc	matched pair				
IN24MR	D	Si	25,000mc	matched forward and reverse polarity				
IN24R	D	Si	25,000mc	reverse polarity type				
IN32	B	Si	3000mc	radio detector, max. figure of merit = 100				
IN32R	B	Si	3000mc	reverse polarity type				
IN53	E	Si	34,000mc	mm. conv. loss = 8.5db, max. noise ratio = 2.5				
IN53A	E	Si	34,000mc	mm. conv. loss = 6.5db, max. noise ratio = 2.5				
IN53AM	E	Si	34,000mc	matched pair				
IN53M	E	Si	34,000mc	matched pair				
IN53MR	E	Si	34,000mc	matched forward and reverse polarity				
IN53R	E	Si	34,000mc	reverse polarity type				
IN78	D	Si	16,000mc	mm. conv. loss = 7.5db, max. noise ratio = 2.5				
IN78A	D	Si	16,000mc	matched pair				
IN78AM	D	Si	16,000mc	matched forward and reverse polarity				
IN78MR	D	Si	16,000mc	reverse polarity type				
IN78R	D	Si	16,000mc	matched pair				
IN78R	D	Si	16,000mc	matched forward and reverse polarity				
IN78R	D	Si	16,000mc	reverse polarity type				
IN149	B	Si	10,000mc	mm. conv. loss = 5.5db, max. noise ratio = 1.5				
IN149M	B	Si	10,000mc	matched pair				
IN149MR	B	Si	10,000mc	matched forward and reverse polarity				
IN149R	B	Si	10,000mc	reverse polarity type				
IN150	B	Si	6750mc	mm. conv. loss = 6db, max. noise ratio = 2				
IN150M	B	Si	6750mc	matched pair				
IN150MR	B	Si	6750mc	matched forward and reverse polarity				
IN150R	B	Si	6750mc	reverse polarity type				
IN160	B	Si	6750mc	mm. conv. loss = 6.5, max. noise ratio = 2.7				
IN160M	B	Si	6750mc	matched pair				
IN160MR	B	Si	6750mc	matched forward and reverse polarity				
IN160R	B	Si	6750mc	reverse polarity type				
IN253	A	Si	100	100095	100	4A	1A01.5	135 150
IN254	A	Si	200	1000190	200	1 SA	50081.5	135 150
IN255	A	Si	400	1500180	400	1 SA	50081.5	135 150
IN256	A	Si	600	2500570	600	1A	50082	135 150
IN332	A	Si	400	2000280	280	10A		150 175
IN333	A	Si	400	2000280	280	5A		130 175
IN334	A	Si	300	2000210	210	10A		150 175
IN335	A	Si	300	2000210	210	5A		150 175
IN236	A	Si	200	1000140	140	10A		150 175

DIODE TYPE	CASE	MAT.	INVERSE			FORWARD		TEMP.	
			$E_{P\text{EAR}}$ V	$I_{P\text{EAR}}$ mA @ 0.5 V	E_{CONT} V	I_{SURGE} mA	I_{MFR} mA @ 0.1 V	OPER °C	MAX °C

MICROELECTRONIC ASSOCIATES, INC.

IN337	A	Si	200	1000140	140	5A		150 175
IN338	A	Si	100	200070	70	6A		150 175
IN339	A	Si	100	100070	70	10A		150 175
IN340	A	Si	100	100070	70	5A		150 175
IN341	A	Si	400	5000260	260	10A		150 175
IN342	A	Si	400	5000280	280	5A		150 175
IN343	A	Si	300	5000210	210	10A		150 175
IN344	A	Si	300	5000210	210	5A		150 175
IN345	A	Si	200	5000140	140	10A		150 175
IN346	A	Si	200	5000140	140	5A		150 175
IN347	A	Si	100	500070	70	6A		150 175
IN348	A	Si	100	500070	70	10A		150 175
IN349	A	Si	100	500070	70	5A		150 175
IN41R	B	Si	10,000mc	reversible polarity version of IN23R				
IN41C	B	Si	10,000mc	reversible polarity version of IN23C				
IN41D	B	Si	10,000mc	reversible polarity version of IN23D				
IN41E	B	Si	10,000mc	reversible polarity version of IN23E				
IN41F	B	Si	1000mc	reversible polarity version of IN21F				
IN41G	B	Si	3000mc	reversible polarity version of IN21G				
IN41H	B	Si	3000mc	reversible polarity version of IN21H				
IN41I	B	Si	3000mc	reversible polarity version of IN21I				
IN41J	B	Si	3000mc	reversible polarity version of IN21J				
IN41K	B	Si	3000mc	reversible polarity version of IN21K				
IN41L	B	Si	3000mc	reversible polarity version of IN21L				
IN41M	B	Si	3000mc	reversible polarity version of IN21M				
IN41N	B	Si	3000mc	reversible polarity version of IN21N				
IN41O	B	Si	3000mc	reversible polarity version of IN21O				
IN41P	B	Si	3000mc	reversible polarity version of IN21P				
IN41Q	B	Si	3000mc	reversible polarity version of IN21Q				
IN41R	B	Si	3000mc	reversible polarity version of IN21R				
IN41S	B	Si	3000mc	reversible polarity version of IN21S				
IN41T	B	Si	3000mc	reversible polarity version of IN21T				
IN41U	B	Si	3000mc	reversible polarity version of IN21U				
IN41V	B	Si	3000mc	reversible polarity version of IN21V				
IN41W	B	Si	3000mc	reversible polarity version of IN21W				
IN41X	B	Si	3000mc	reversible polarity version of IN21X				
IN41Y	B	Si	3000mc	reversible polarity version of IN21Y				
IN41Z	B	Si	3000mc	reversible polarity version of IN21Z				
MA40	C	Si	Classified mixer crystal for use in RC-9B/U waveguide					
MA407	C	Si	10,000mc	reversible polarity, max. conv. loss = 6.5db				
MA408	B	Si	9000mc	video detector, figure of merit = 130				
MA409	B	Si	9000mc	video detector, figure of merit = 160				
MA409R	B	Si	9000mc	video detector, rev. polarity, fig. of merit = 220				
MA409M	B	Si	9000mc	video detector, rev. polarity, fig. of merit = 160				
MA409R	B	Si	9000mc	video detector, rev. polarity, fig. of merit = 220				
MA409M	B	Si	9000mc	video detector, rev. polarity, fig. of merit = 160				
MA409R	B	Si	1000mc	max. conv. loss = 5.5db, max. noise ratio = 1.3				
MA409M	B	Si	1000mc	matched pair				
MA409MR	B	Si	1000mc	matched forward and reverse polarity				
MA409R	B	Si	1000mc	reverse polarity type				
MA410	B	Si	26.5-75Kc	RC-9B/U waveguide mounted for mixer of video				
MA411	B	Si	10,000mc	reversible polarity version of IN419				
MA412	B	Si	3295mc	reversible polarity version of IN32				
MA413	B	Si	9000mc	reversible polarity version of MA408				
MA414	B	Si	9000mc	reversible polarity version of MA409				
MA415	B	Si	9000mc	reversible polarity version of MA408A				
MA416	B	Si	9000mc	reversible polarity version of MA409A				
MA417	B	Si	9000mc	reversible polarity version of IN150				
MA418	B	Si	1000mc	mixer, max. receiver noise figure = 6.5db				
MA419	B	Si	1000mc	matched pair				
MA420	B	Si	1000mc	matched forward and reverse polarity				
MA421	B	Si	1000mc	reverse polarity type				
MA421A	B	Si	1000mc	matched pair				
MA421AM	B	Si	1000mc	matched forward and reverse polarity				
MA421AR	B	Si	1000mc	reverse polarity type				
MA421R	B	Si	1000mc	mixer, max. receiver noise figure = 6db				
MA421M	B	Si	3060mc	matched pair				
MA421MR	B	Si	3060mc	matched forward and reverse polarity				
MA421R	B	Si	3060mc	reverse polarity type				
MA423A	B	Si	9375mc	mixer, max. receiver noise figure = 7db				
MA423AM	B	Si	9375mc					

DIODE TYPE	CASE	MAT.	INVERSE			FORWARD		TEMP.	
			I _{PEAK} mA	I _{PEAK} mA @ V	E _{CONT} V	I _{URGE} mA	I _{MIN} mA @ V	OP _{ER} °C	MAX °C
BOYDOL, INC., Semiconductor Products Division, 5005 E. McDowell Rd., Phoenix, Ariz.									
1N1563	A	Si	100	50100	100	35A	500	75	100
1N1564	A	Si	200	50200	200	35A	500	75	100
1N1565	A	Si	300	50300	300	35A	500	75	100
1N1566	A	Si	400	50400	400	35A	500	75	100
1N1567	A	Si	500	50500	500	35A	500	75	100
1N1568	A	Si	600	50600	600	35A	500	75	100
1N1569	H	Si	100	50100	100	70A	500	100	150
1N1570	H	Si	100	50200	100	70A	500	100	150
1N1571	H	Si	300	50300	300	70A	500	100	150
1N1572	R	Si	100	50400	100	70A	500	100	150
1N1573	C	Si	100	50100	100	70A	1000	125	150
1N1576	C	Si	200	50200	200	70A	1000	125	150
1N1577	C	Si	300	50300	300	70A	1000	125	150
1N1578	C	Si	400	50400	400	70A	1000	125	150

MULLARD OVERSEAS LTD., Electronic Tube Dept., Mullard House, Torrington Place, London W. 1, England									
0A5	A	G	100	110100	100	500	2000	8	75
0A10	A	G	30	10020	30	500	500	7	75
0A70	H	G	22.5	Video diode	15	400			
0A71	R	G	90	25000	60	200		101.05	60
0A73	H	G	10	400020	30	400			75
0A79	H	G	45	90045	30	200	1004		60
0A8A	H	G	90	34000	60	200			60
0A91	C	G	115	750100	90	500	1001.2		75
0A95	C	G	115	35075	90	500	1001.05		75

NELEONIC PRODUCTS CO., INC., Los Angeles 55, California										
1N34	A	G	75	30010	60	500		5	25	
1N34A	A	G	75	30010	60	500		5	25	
1N38	A	G	120	601	100	500		4	25	
1N38A	A	G	120	603	100	500		4	25	
1N39	A	G	220	8000200	200	200		5	25	
1N39A	A	G	225	8500500	200	200		5	25	
1N43	A	G	80	1000500				3	60	
1N44	A	G	115	410050				3	60	
1N45	A	G	75	1500050				3	60	
1N47	A	G	60	5000500				4	60	
1N48	A	G	85	833050	70	400		4	25	
1N51	A	G	50	1660050	40	100	2.5	25	75	
1N52	A	G	85	150050	70	400		4	25	
1N54	A	G	75	7010	50	500		5	25	
1N54A	A	G	75	7010	50	500		5	25	
1N55	A	G	170	5000100	150	500		2.5	90	
1N55A	A	G	170	3000100	150	500		4	25	
1N57	A	G	80	5000100	80	500		4	90	
1N58	A	G	120	6000100	100	500		4	90	
1N58A	A	G	120	6000100	100	500		5	25	
1N59	A	G	275	8000250	250			3	90	
1N60	A	G	75	67010	75	500		3	25	
1N61	A	G	140	3000100	130	500		3	25	
1N63	A	G	125	5000500	100	400		4	25	
1N64	A	G	20	200010	15	400		2.5	25	
1N65	A	G	85	200050	70	400		2.5	25	
1N66	A	G	70	800050	60	500		5	100	
1N67	A	G	100	50050	80	500		4	25	
1N67A	A	G	100	505	80	500		4	25	
1N68	A	G	120	6250100	100	500		3	100	
1N68A	A	G	120	6250100	100	500		3	25	
1N69	A	G	75	30010	60	400		5	25	
1N70	A	G	125	25010	100	350		3	25	
1N75	A	G	125	50050	100	400		2.5	25	
1N81	A	G	50	10010	40	350		3.5	25	
1N8A	A	G	70	50010	40			4	90	
1N88	A	G	110	100050	85	400		2.5	25	
1N89	A	G	100	805	80			3.5	90	
1N90	A	G	75	60010	60	500		5	25	
1N111	A	G	75	60				2.5	90	
1N112	A	G	75	60				2.5	90	
1N113	A	G	75	60				2.5	90	
1N114	A	G	75	60				2.5	90	
1N115	A	G	75	60				2.5	90	
1N116	A	G	75	100050	60	250		5	90	
1N126	A	G	75	50010	60	350		5	25	
1N127	A	G	125	25010	100	300		3	25	
1N128	A	G	50	10010	40	300		3	25	
1N142	A	G	125	1000100	100	400		5	25	
TP50	R	G		Photodiode, dark current 3.5µA						

ORBIT MANUFACTURING CO., 3601 Howard Street, Skokie, Illinois									
1N6111	A	G	100	50050	75	500	200	100	120
1N6118	A	G	100	100050	75	500	200	100	120
1N6213	A	G	100	50050	75	500	100	100	120
1N6218	A	G	100	100050	75	500	100	100	120
1N6451	A	G	100	100050	75	300	40	100	120

PACIFIC SEMICONDUCTORS, INC., 10451 West Jefferson Blvd., Culver City, California									
1N34A	R	G	75	30010	60	500		5	25
1N38A	R	G	120	601	100	500		4	25
1N55R	A	G	190	5000150	150	500		5	75
1N63	R	G	125	500050	100	400		4	25
1N67A	A	G	100	505	80	500		4	25
1N68A	A	G	130	6250100	100	500		3	25
1N69	A	G	100	805	80			3.5	90
1N90	A	G	75	800050	60	500		5	75
1N95	A	G	75	500050	60	250	10	90	90
1N96	A	G	75	500050	60	250	20	90	90
1N97	A	G	100	805	80	250	10	90	90
1N98	A	G	100	505	80	250	20	90	90
1N99	A	G	100	505	80	300	20	90	90
1N100	A	G	100	505	80	300	20	90	90
1N116	A	G	75	100050	60	250	5	90	90
1N117	A	G	75	100050	60	250	10	90	90
1N118	A	G	75	100050	60	250	20	90	90
1N126	A	G	75	50010	60	350	5	25	75
1N127	A	G	125	25010	100	300	3	25	75
1N128	A	G	50	10010	40	300	3	25	75
1N191	A	G	90	25010	40	400	5	25	90
1N192	A	G	70	250050	60	500		4	90
1N198	A	G	100	10010	80	300		4	75
1N456	A	G	30	.025025	25	1.5A	400	200	200
1N456A	C	Si	30	.025025	25	1.5A	100	200	200
1N457	C	Si	70	.025060	60	1.5A	200	200	200
1N457A	C	Si	70	.025060	60	1.5A	100	200	200
1N458	C	Si	150	.0250125	125	1.5A	7	200	200
1N458A	C	Si	150	.0250125	125	1.5A	100	200	200
1N459	C	Si	200	.0250175	175	1.5A	3	200	200
1N459A	C	Si	200	.0250175	175	1.5A	100	200	200
1N461	C	Si	30	.5025	25	1.5A	15	200	200
1N461A	C	Si	30	.5025	25	1.5A	100	200	200
1N462	C	Si	70	.5060	60	1.5A	5	200	200
1N462A	C	Si	70	.5060	60	1.5A	100	200	200

DIODE TYPE	CASE	MAT.	INVERSE			FORWARD		TEMP.	
			I _{PEAK} v	I _{PEAK} mA @ V	E _{CONT} V	I _{URGE} mA	I _{MIN} mA @ V	OP _{ER} °C	MAX °C
PACIFIC SEMICONDUCTORS, INC.									
1N463	C	Si	150	50175	175			1.5A	1
1N463A	C	Si	300	50175	175			1.5A	100
1N464	C	Si	150	50125	125			1.5A	3
1N464A	C	Si	150	50125	125			1.5A	100
1N487	C	Si	40	10030	30			1A	10001.1
1N487B	C	Si	40	15030	30			2A	100
1N487C	C	Si	40	5030	30			2A	100
1N481	C	Si	80	10060	70			1A	10001.1
1N483A	C	Si	80	15060	70			2A	100
1N483B	C	Si	80	5060	70			2A	100
1N483C	C	Si	150	100125	130			1A	10001.1
1N484A	C	Si	150	150125	130			2A	100
1N484B	C	Si	150	50125	130			2A	100
1N485	C	Si	200	300175	180			1A	10001.1
1N485A	C	Si	200	150175	180			2A	100

A Wide Range of Ratings . . . Choice of Mounting
High Efficiency . . . Low Cost . . . Prompt Delivery

Tarzian SILICON RECTIFIERS

Offer These Advantages — and Many More!



**J
SERIES**

SPECIFICATIONS

D. C. Current
Range . . . 1.5A(J-1)—10A(J-2)
Peak Inverse
Voltage Range 100V to 400V
Approx. Rectifier
Voltage Drop 1.25V
Approx. Weight
(Ounces)2 oz.



**LOW CURRENT
SERIES**

SPECIFICATIONS

D. C. Current
Range 1.5A(M)—.2A(K)
Peak Inverse
Voltage Range 360V
Approx. Rectifier
Voltage Drop 1.5V
Approx. Weight
(Ounces)2 oz.



**L SERIES
LF SERIES**

SPECIFICATIONS

D. C. Current
Range 1.5A(L)—5A(LF)
Peak Inverse
Voltage Range 100V to 400V
Approx. Rectifier
Voltage Drop 1.5V
Approx. Weight
(Ounces)35 oz.



**K SERIES
M SERIES**

SPECIFICATIONS

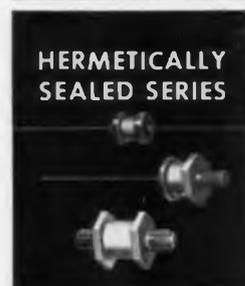
D. C. Current
Range5A(M)—.75A(K)
Peak Inverse
Voltage Range 100V to 600V
Approx. Rectifier
Voltage Drop 1.5V
Approx. Weight
(Ounces)2 oz.



**HIGH CURRENT
SERIES**

SPECIFICATIONS

D. C. Current
Range 20A to 200A
Peak Inverse
Voltage Range 50V to 400V
Approx. Rectifier
Voltage Drop 1.25V
Approx. Weight
(Ounces) . . . 1.3 oz. to 7.0 oz.



**HERMETICALLY
SEALED SERIES**

SPECIFICATIONS

D. C. Current
Range5A to 15A
Peak Inverse
Voltage Range 50V to 600V
Approx. Rectifier
Voltage Drop 1.5V
Approx. Weight
(Ounces) 1.5 oz. to 1.5 oz.



**TUBE
REPLACEMENT
SERIES**

SPECIFICATIONS

D. C. Current
Range25A(HW)—.75A(FW)
Peak Inverse
Voltage Range 1600V to 4500V
Approx. Rectifier
Voltage Drop 8V to 10V
Approx. Weight
(Ounces) 4 oz. to 8 oz.



**SM
SERIES**

SPECIFICATIONS

D. C. Current
Range325A to .45A
Peak Inverse
Voltage Range 800V to 2800V
Approx. Rectifier
Voltage Drop 2V to 15V
Approx. Weight
(Ounces)3 oz. to .9 oz.

Write, wire or phone for complete information

SARKES TARZIAN, INC., RECTIFIER DIV., Dept. EE2, 415 N. College, Bloomington, Ind.
In Canada: 700 Weston Rd., Toronto 9, Tel. Rogers 2-7535 • Export: Ad Autiema, Inc., New York City

DIODE TYPE	CASE	MAY.	INVERSE			FORWARD		TEMP.	
			E _{PEAK} V	I _{PEAK} mA @ 0 V	F _{CONT} V	I _{URGE} mA	I _{MIN} mA @ +1V	OPER °C	MAX °C
PACIFIC SEMICONDUCTORS, INC.									
PS46	C	Si	420	250300	300	1 SA	100	200	
PS67	C	Si	420	18300	180	1 SA	200	200	
PS720	C	Si	30	5820	25	500	3	150	
PS721	C	Si	60	5845	50	500	5	150	
PS722	C	Si	100	5875	85	500	3	150	
PS723	C	Si	150	208175	180	500	3	150	
PS724	C	Si	200	208125	125	500	4	150	
V20	C	Si	Varicap	20pF@4V	series	resistance	10ohm max		
V27	C	Si	Varicap	27pF@4V	series	resistance	10ohm max		
V30	C	Si	Varicap	33pF@4V	series	resistance	12ohm max		
V39	C	Si	Varicap	39pF@4V	series	resistance	7.0ohm max		
V47	C	Si	Varicap	47pF@4V	series	resistance	7.5ohm max		
V56	C	Si	Varicap	56pF@4V	series	resistance	7ohm max		

PRILEX CORPORATION, Lansdale Tube Co. Div., Lansdale, Pa.									
DIODE	CASE	MAY.	E _{PEAK} V	I _{PEAK} mA	F _{CONT} V	I _{URGE} mA	I _{MIN} mA @ +1V	OPER °C	MAX °C
IN247	A	G	2 UHF maax	55*				70	
IN247A	A	G	2 UHF maax	55*				70	
IN273	A	G	2 UHF maax	55*				70	
IN283	B	G	1 X-Band maax	55*				90	

RADIO CORPORATION OF AMERICA, Semiconductor Division, Somerville, N.J.									
DIODE	CASE	MAY.	E _{PEAK} V	I _{PEAK} mA	F _{CONT} V	I _{URGE} mA	I _{MIN} mA @ +1V	OPER °C	MAX °C
IN34A	A	G	60	3010	60	500*	5	25	75
IN36A	R	G	100	583	100	500*	4	25	75
IN38A	A	G	50	7410	50	500*	5	25	75
IN38A	A	G	100	6008100	100	500*	4	25	75

RADIO RECEPTOR CO., INC., 240 Rulife Ave., Brooklyn 11, N.Y.									
DIODE	CASE	MAY.	E _{PEAK} V	I _{PEAK} mA	F _{CONT} V	I _{URGE} mA	I _{MIN} mA @ +1V	OPER °C	MAX °C
IN34	A	G	75	30810	60	500	5	25	75
IN36A	A	G	75	30810	60	500	5	25	75
IN38	A	G	120	683	100	500	4	25	90
IN38A	A	G	120	683	100	500	4	25	75
IN42	A	G	85	833850	70	400	4	25	75
IN51	A	G	50	1660850	40	300	2.5	25	75
IN52	A	G	85	150850	70	400	4	25	75
IN54	A	G	75	7810	50	500	5	25	90
IN54A	A	G	75	7810	50	500	5	25	75
IN55	A	G	170	5008100	150	500	4	25	90
IN55A	A	G	170	3008100	150	500	4	25	90
IN55B	A	G	190	5008150	150	500	5	25	75
IN56	A	G	50	300830	60	15	15	25	90
IN56A	A	G	50	300830	60	1A	15	25	75
IN58	A	G	120	6008100	100	4	4	25	90
IN58A	A	G	120	6008100	100	500	5	25	75
IN63	A	G	125	500850	100	400	4	25	75
IN67A	A	G	100	585	80	500	4	25	75
IN68A	A	G	130	6258100	100	500	3	25	75
IN69	A	G	75	30810	60	400	3	25	75
IN70	A	G	125	25810	100	350	3	25	75
IN81	A	G	50	10810	40	350	3.5	25	75
IN89	A	G	100	885	80	3.5	3.5	25	90
IN95	A	G	75	5008100	60	500	5	25	75
IN95	A	G	75	500850	60	250	10	20	90
IN96	A	G	75	500850	60	250	20	20	90
IN97A	A	G	100	885	80	20	20	25	75
IN98A	A	G	100	885	80	40	40	25	75
IN99A	A	G	100	585	80	20	20	25	75
IN100A	A	G	100	585	80	40	40	25	75
IN116A	A	G	75	100850	60	10	20	25	75
IN117A	A	G	75	100850	60	10	20	25	75
IN118A	A	G	75	100850	60	40	25	25	75
IN126	A	G	75	50810	60	350	5	25	75
IN127	A	G	125	25810	100	300	3	25	75
IN128	A	G	50	10810	40	300	3	25	75
IN141	A	G	90	25810	60	400	8	25	90
IN192	A	G	70	250850	400	5	5	90	
IN198	A	G	100	10810	80	300	4	75	90
IN281	A	G	75	500850	60	400	100	90	
IN456	B	Si	30	025810	25	1 SA	40	200	
IN457	B	Si	70	025860	60	1 SA	70	200	
IN458	B	Si	150	0258125	125	1 SA	7	200	
IN459	B	Si	200	0258175	175	1 SA	3	200	
IN461	B	Si	30	5825	25	1 SA	15	200	
IN462	B	Si	80	5840	40	1 SA	5	200	
IN463	B	Si	200	58175	175	1 SA	1	200	
IN464	B	Si	150	58125	125	1 SA	3	200	
IN482	B	Si	40	30830	36	1A 10001	1	150	200
IN482R	B	Si	40	15830	36	2A	100	150	200
IN483	B	Si	80	5830	36	2A	100	150	200
IN483A	B	Si	80	30860	70	1A 10001	1	150	200
IN483B	B	Si	80	15860	70	2A	100	150	200
IN483C	B	Si	125	15860	70	2A	100	150	200
IN484	B	Si	150	308125	130	1A 10001	1	150	200
IN484A	B	Si	150	158125	130	2A	100	150	200
IN484B	B	Si	150	58125	130	2A	100	150	200
IN485	B	Si	200	308175	180	1A 10001	1	150	200
IN485A	B	Si	200	158175	180	2A	100	150	200
IN485B	B	Si	200	58175	180	2A	100	150	200
IN486	B	Si	250	508225	225	1 SA 10001	1	150	200
IN486A	B	Si	250	258225	225	2A 100	1	150	200
IN625	R	Si	30	1810		401.5		135	
IN626	R	Si	50	20835		401.5		135	
IN627	R	Si	100	20875		401.5		135	
IN629	B	Si	150	208125		401.5		135	
IN629	B	Si	200	208175		401.5		135	
IN658	B	Si	100	05850		401.5		135	
DR301	A	G	125	1008-50	100			400	25
DR302	A	G	100	1008-50	80			400	25
DR303	A	G	75	508-20	60			400	25
DR305	A	G	125	1008-50	100			200	25
DR306	A	G	100	1008-50	80			200	25
DR307	A	G	75	508-20	60			200	25
DR308	A	G	100	508-50	80			200	25
DR309	A	G	100	508-100	100			200	25
DR310	A	G	120	508-100	120			180	25
DR311	A	G	120	1008-100	120			100	25
DR312	A	G	100	208-100	100			100	25
DR313	A	G	125	1008-50	100			200	25
DR314	A	G	80	208-50	80			100	25
DR315	A	G	150	508-100	120			50	25
DR316	A	G	125	1008-100	100			50	25
DR317	A	G	100	508-50	80			50	25
DR318	A	G	75	24-10	60			50	25
DR319	A	G	75	58-10	60			50	25
DR321	A	G	100	1258-50	50			200	25
DR322	A	G	100	2008-50	50			100	25
DR324	A	G	100	5008-50	50			100	25
DR325	A	G	75	2508-50	50			100	25
DR326	A	G	75	2508-50	60			100	25
DR327	A	G	125	1008-50	100			300	25
DR328	A	G	100	1108-50	80			300	25
DR329	A	G	75	508-70	60			300	25

DIODE TYPE	CASE	MAY.	INVERSE			FORWARD		TEMP.	
			E _{PEAK} V	I _{PEAK} mA @ 0 V	F _{CONT} V	I _{URGE} mA	I _{MIN} mA @ +1V	OPER °C	MAX °C
RADIO RECEPTOR CO., INC.									
DR330	A	G	100	508-50	60			300	25
DR401	A	G	40	585	40			200	25
DR402	A	G	40	585	40			200	25
DR403	A	G	60	585	60			200	25
DR404	A	G	60	585	60			200	25
DR408	B	Si	80	025860	70			200	200
DR409	B	Si	150	0258125	130			200	200
DR670	B	Si	200	0258175	180			200	200
DR671	B	Si	250	058225	225			200	200
DR672	B	Si	50	5835	35			100	100
DR673	B	Si	100	5875	75			100	100
DR674	B	Si	150	58125	125			100	100
DR675	B	Si	200</						

MAXIMUM POWER • MINIMUM SIZE



TRUE DIFFUSED JUNCTION SILICON POWER DIODES

Now, you can select from a full series of high power silicon rectifiers having the superior uniformity and reliability of true diffused junction construction. Conservatively rated up to 30 amperes at 50 to 400 p.i.v., these high-performance diodes feature a low forward voltage drop and an ambient temperature range of $-65^{\circ}\text{C}.$ to $+150^{\circ}\text{C}.$

Small, rugged and efficient, Silotron stud-mounted types incorporate a glass-to-metal hermetic seal and a solid copper construction for maximum electrical conductivity and heat dissipation. Lower-priced than many less-advanced types, these rectifiers are economical and reliable long-life components for new or replacement designs. For maximum design flexibility, all Silotron diodes are available with reversed polarity.

TYPE NO.	MAX. AVG. FWD. CURRENT, $40^{\circ}\text{C}.$ * (AMPERES)	PEAK INVERSE VOLTS	RMS VOLTS MAX.	LEAKAGE MA.**
P1005	10	50	35	<5
P1010	10	100	70	<5
P1015	10	150	105	<5
P1020	10	200	141	<5
P1040	10	400	283	<5
P1505	15	50	35	<5
P1510	15	100	70	<5
P1515	15	150	105	<5
P1520	15	200	141	<5
P1540	15	400	283	<5
P2005	20	50	35	<5
P2010	20	100	70	<5
P2015	20	150	105	<5
P2020	20	200	141	<5
P2040	20	400	283	<5
P2505	25	50	35	<5
P2510	25	100	70	<5
P2515	25	150	105	<5
P2520	25	200	141	<5
P2540	25	400	283	<5
P3005	30	50	35	<5
P3010	30	100	70	<5
P3015	30	150	105	<5
P3020	30	200	141	<5
P3040	30	400	283	<5

* $6'' \times 6''$ heat sink
 **at max. rated forward current and PIV

Maximum forward voltage drop:
 $25^{\circ}\text{C}.$ at full rated current, 1.2 volts

Write today for complete details on our full line

THERMOSEN, INC.
 375 FAIRFIELD AVENUE • STAMFORD, CONNECTICUT

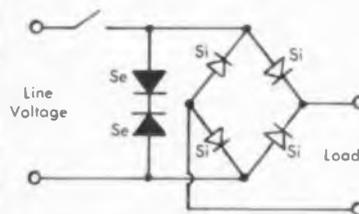
DIODE ENGINEERING NOTES FROM THERMOSEN

TRANSIENT VOLTAGE PROTECTION FOR SILICON POWER RECTIFIERS

When silicon power rectifiers are subjected to voltages in excess of the rated peak inverse voltage (such as transients due to switching), permanent destructive breakdown may occur. Unlike selenium rectifiers, there is no "healing" or recovery in silicon rectifiers, after removal of the excess voltage. Ideally, breakdown can be avoided by selecting silicon rectifiers with PIV ratings in excess of maximum expected transient voltages under all conditions. However, it is often not convenient or economical to evaluate or design for all these transient possibilities.

A practical alternative is to make use of the "healing" properties of selenium rectifiers. Small selenium rectifiers will withstand very large momentary current surges without permanent damage. A 350 ma. rectifier may withstand surges as great as 5 amperes, for example.

Therefore, two relatively inexpensive TV-type selenium rectifiers having breakdown voltages slightly less than the rated peak voltage of a silicon rectifier will provide considerable protection to the latter. Illustrated is a circuit for protecting a full wave silicon rectifier bridge. Similar arrangements can be used to protect single-phase halfwave rectifiers and each leg of center-tap and three-phase bridges.



DIODE RATINGS

In the listings at the left you will note that the leakage current characteristic is specified at maximum rated forward current and peak inverse voltage. In selecting and specifying silicon diodes, this interrelation of characteristics should be remembered at all times. All 100 volt diodes are not the same, for example:

A 100 volt Silotron diode rated at 5 ma. leakage might have been rated a 200 or 300 volt diode with a poorer leakage characteristic. As a matter of fact, higher voltage ratings may be assumed for all diodes listed, if higher leakage currents can be tolerated.

When specifying diodes, be sure to consider complete specifications in order to make the most appropriate and most economical choice for your application. Write today for complete specifications on the Silotron line.

DIODE TYPE	CASE	MAT.	INVERSE			FORWARD		TEMP.		
			E _{PEAK} v	I _{PEAK} ma	E _{CONT} v	I _{SRG} ma	I _{FR} ma	OPR °C	MAX °C	
BABB'S TRANSISTOR										
1N110	R	Si	1600	2.0m1600	1120	30A	5000	5	100	150
1N111	L	Si	2000	2.0m2000	1400	30A	5000	5	100	150
1N112	M	Si	2400	2.0m2400	1600	30A	5000	5	100	150
1N113	N	Si	2800	2.0m2800	1900	30A	5000	5	100	150
1N115	V	Si	1600	2.0m1600	1100	0000A	750	5	100	100
1N117	R	Si	50	25m50	35	200A	20A0	5	100	100
1N118	S	Si	100	25m100	70	200A	20A0	5	100	100
1N119	S	Si	200	25m200	140	200A	20A0	5	100	100
1N116	S	Si	300	25m300	210	200A	20A0	5	100	100
1N117	T	Si	50	40m50	35	350A	35A0	5	100	100
1N118	T	Si	100	40m100	70	350A	35A0	5	100	100
1N113	T	Si	200	40m200	140	350A	35A0	5	100	100
1N114	T	Si	300	40m300	210	350A	35A0	5	100	100
1N115	U	Si	50	100m50	35	1000A	100A0	5	100	100
1N116	U	Si	100	100m100	70	1000A	100A0	5	100	100
1N117	U	Si	200	100m200	140	1000A	100A0	5	100	100
1N118	U	Si	300	100m300	210	1000A	100A0	5	100	100
1N119	U	Si	50	100m50	35	1000A	100A0	5	100	100
1N120	U	Si	100	100m100	70	1000A	100A0	5	100	100
1N121	U	Si	200	100m200	140	1000A	100A0	5	100	100
1N122	U	Si	300	100m300	210	1000A	100A0	5	100	100
1N123	W	Si	1600	2.0m1600	1100	0000A	75A0	5	100	100
1N124	W	Si	1600	2.0m1600	1100	0000A	75A0	5	100	100
1N125	W	Si	2800	2.0m2800	1950	5000A	5A0	5	100	100
1N126	X	Si	50	150m50	35	1500A	150A0	5	100	100
1N126A	U	Si	50	150m50	35	2000A	200A0	5	100	100
1N126B	U	Si	100	150m100	70	1500A	150A0	5	100	100
1N126C	U	Si	200	150m200	140	2000A	200A0	5	100	100
1N126D	U	Si	300	150m300	210	2000A	200A0	5	100	100
1N126E	U	Si	500	150m500	350	1500A	150A0	5	100	100
1N126F	U	Si	1000	150m1000	700	1000A	100A0	5	100	100
1N126G	U	Si	2000	150m2000	1400	2000A	200A0	5	100	100
1N126H	U	Si	3000	150m3000	2100	1500A	150A0	5	100	100
1N126I	U	Si	5000	150m5000	3500	1000A	100A0	5	100	100
1N126J	U	Si	10000	150m10000	7000	500A	50A0	5	100	100
1N126K	U	Si	20000	150m20000	14000	200A	20A0	5	100	100
1N126L	U	Si	30000	150m30000	21000	100A	10A0	5	100	100
1N126M	U	Si	50000	150m50000	35000	50A	5A0	5	100	100
1N126N	U	Si	100000	150m100000	70000	20A	2A0	5	100	100
1N126O	U	Si	200000	150m200000	140000	10A	1A0	5	100	100
1N126P	U	Si	300000	150m300000	210000	5A	5A0	5	100	100
1N126Q	U	Si	500000	150m500000	350000	2A	2A0	5	100	100
1N126R	U	Si	1000000	150m1000000	700000	1A	1A0	5	100	100
1N126S	U	Si	2000000	150m2000000	1400000	0.5A	0.5A0	5	100	100
1N126T	U	Si	3000000	150m3000000	2100000	0.2A	0.2A0	5	100	100
1N126U	U	Si	5000000	150m5000000	3500000	0.1A	0.1A0	5	100	100
1N126V	U	Si	10000000	150m10000000	7000000	0.05A	0.05A0	5	100	100
1N126W	U	Si	20000000	150m20000000	14000000	0.02A	0.02A0	5	100	100
1N126X	U	Si	30000000	150m30000000	21000000	0.01A	0.01A0	5	100	100
1N126Y	U	Si	50000000	150m50000000	35000000	0.005A	0.005A0	5	100	100
1N126Z	U	Si	100000000	150m100000000	70000000	0.002A	0.002A0	5	100	100

1 RMS volts.

SPERRY SEMICONDUCTOR DIVISION, Sperry Rand Corp., Wilson Ave., South Norwalk, Conn.

1N457	A	Si	70	0.25m0.70	6.0	1A	20		200	
1N458	A	Si	150	0.25m1.25	12.5	1A	7		200	
1N459	A	Si	200	0.25m1.75	17.5	1A	7		200	
1N460	A	Si	40	0.25m0.40	3.6	1A	10000.1		200	
1N462A	A	Si	40	0.25m0.40	3.6	2A	100		200	
1N462B	A	Si	40	0.25m0.40	3.6	2A	100		200	
1N463	A	Si	80	0.25m0.80	7.0	1A	10000.1		200	
1N463A	A	Si	80	0.25m0.80	7.0	2A	100		200	
1N463B	A	Si	80	0.25m0.80	7.0	2A	100		200	
1N464	A	Si	150	0.25m1.50	13.0	1A	10000.1		200	
1N464A	A	Si	150	0.25m1.50	13.0	2A	100		200	
1N464B	A	Si	150	0.25m1.50	13.0	2A	100		200	
1N465	A	Si	200	0.25m2.00	18.0	1A	10000.1		200	
1N465A	A	Si	200	0.25m1.75	18.0	2A	100		200	
1N465B	A	Si	200	0.25m1.75	18.0	2A	100		200	
1N466	A	Si	250	0.25m2.50	22.5	1A	10000.1		200	
1N466A	A	Si	250	0.25m2.25	22.5	2A	100		200	
1N467	A	Si	330	0.25m3.30	30.0	1A	10000.1		200	
1N467A	A	Si	330	0.25m3.00	30.0	2A	100		200	
1N467B	A	Si	330	0.25m3.00	30.0	2A	100		200	
1N468	A	Si	35	0.25m0.35	3.5				401.5	150
1N468A	A	Si	50	0.25m0.50	5.0				401.5	150

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DIODE TYPE	CASE	MAT.	INVERSE			FORWARD		TEMP.	
			E _{PEAK} v	I _{PEAK} ma	E _{CONT} v	I _{SRG} ma	I _{FR} ma	OPR °C	MAX °C

SPERRY SEMICONDUCTOR DIV.

1N427	A	Si	100		1075				401.5	150
1N428	A	Si	150		1615				401.5	150
1N429	A	Si	200		1815				401.5	150
S-131	A	Si	60	25030	36				400	150
S-132	A	Si	80	25060	70				400	150
S-133	A	Si	150	250120	130				400	150
S-134	A	Si	200	250160	180				400	150

1. Computer Diodes. 2. Special Computer Diodes.

SYLVANIA ELECTRIC PRODUCTS INC., 100 Sylvan Road, Bowers, Mass.

1N21	G	Si	3000 mc mixer							
1N21A	G	Si	3000 mc mixer							
1N21B	G	Si	3000 mc mixer							
1N21BR	G	Si	Matched pair							
1N21BR	G	Si	Reverse polarity							
1N21C	G	Si	3000 mc mixer							
1N21CM	G	Si	Matched pair							
1N21CMR	G	Si	Reverse polarity							
1N21CR	G	Si	Reverse polarity							
1N21D	G	Si	3000 mc mixer - low noise							
1N21DM	G	Si	Matched pair							
1N21DMR	G	Si	Reverse polarity							
1N21E	G	Si	3000 mc w/burnout							
1N21F	G	Si	Matched pair							
1N21FMR	G	Si	Reverse polarity							
1N21FR	G	Si	Reverse polarity							
1N21FE	G	Si	Double ended							
1N23A	G	Si	10,000 mc mixer							
1N23B	G	Si	10,000 mc mixer							
1N23BR	G	Si	Matched pair							
1N23BR	G	Si	Reverse polarity							
1N23C	G	Si	10,000 mc mixer							
1N23CM	G	Si	Matched pair							
1N23CMR	G	Si	Matched pair							
1N23CR	G	Si	Reverse polarity							
1N23D	G	Si	10,000 mc mixer							
1N23DM	G	Si	Matched pair							
1N23DMR	G	Si	Reverse polarity							
1N23E	G	Si	10,000 mc							
1N23EM	G	Si	Matched pair							
1N23EMR	G	Si	Matched pair							
1N23ER	G	Si	Reverse polarity							
1N23EF	G	Si	Double ended							
1N24	G	Si	10,000 mc mixer							
1N25A	G	Si	10,000 mc mixer							
1N25B	G	Si	Reverse polarity							
1N26	G	Si	24-40 mc mixer							
1N26A	G	Si	24-40 mc mixer							
1N26B	G	Si	Matched pair							

DIODE TYPE	CASE	BAT.	INVERSE			FORWARD			TEMP.	
			E _{PEAK} V	I _{PEAK} mA	E _{COMP} V	I _{SURGE} mA	I _{MIN} mA @ 1V	OPER °C	MAX °C	

PENNSYLVANIA ELECTRIC PRODUCTS, INC.

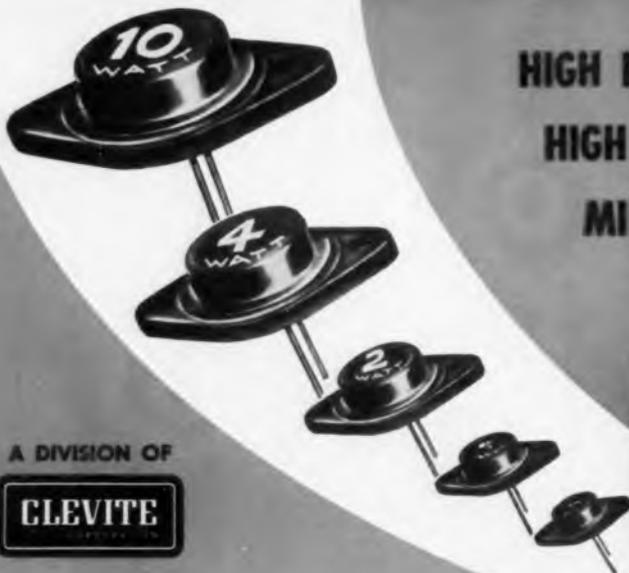
1P70	A	G	125	25010	100	350	3	25	90
1P70A	A	G	125	25010	100	350	3	25	90
1P71	E	G	15	300030	40	1A	15	25	75
1P76	S			Video detector					
1P76A	S			Reverse diode					
1P77A	F			30050	50		10	25	75
1P77B	F			30050	50		10	25	75
1P78	S			16,000 mc mixer					
1P78A	S			16,000 mc mixer					
1P78AB	S			Matched pair					
1P78ABR	S			Matched pair					
1P78AAR	S			Reverse polarity					
1P78AA	S			Matched pair					
1P78AR	S			Matched pair					
1P78BR	S			Matched pair					
1P78B	S			Reverse polarity					
1P79	S			Motor rectifier					
1P81	A	G	50	10010	40	390	3	25	90
1P81A	A	G	50	10010	40	350	3	25	90
1P82	A	S		LMF mixer NF = 16db					
1P82A	A	S		LMF mixer NF = 14db					
1P90	B	G	100	75005	60	300	5	25	90
1P90A	B	G	100	100050	60	300	5	25	90
1P90B	B	G	100	505	80	300	20	25	90
1P91	A	G	75	250050	60	500	5	55	90
1P91A	A	G	75	100050	60	250	5	55	90
1P91B	A	G	75	80050	60	500	5	55	90
1P92	A	G	75	250050	60	500	5	55	90
1P93	B	G	75	50010	60	350	5	25	90
1P93A	B	G	75	50010	60	350	5	25	90
1P93B	B	G	75	50010	60	350	5	25	90
1P94	F	G	125	25010	100	300	3	25	90
1P94A	F	G	125	25010	100	300	3	25	90
1P94B	F	G	125	25010	100	300	3	25	90
1P95	B	G	50	10010	40	300	3	25	90
1P95A	B	G	50	10010	40	300	3	25	90
1P95B	B	G	50	10010	40	300	3	25	90
1P96	A	S		100040	40	100	1.02	100	150
1P96A	A	S		100040	40	100	1.02	100	150
1P96B	A	S		100040	40	100	1.02	100	150
1P97	B	G	100	50050	80	300	4	75	90
1P97A	B	G	100	50050	80	300	4	75	90
1P97B	B	G	100	50050	80	300	4	75	90
1P98	B	G	35	200020	10	450	100	25	90
1P98A	B	G	35	200020	10	450	100	25	90
1P98B	B	G	35	200020	10	450	100	25	90
1P99	R	G	25	80010	20	500	200	25	75
1P99A	R	G	25	80010	20	500	200	25	75
1P99B	R	G	25	80010	20	500	200	25	75
1P99C	R	G	25	80010	20	500	200	25	75
1P99D	R	G	25	80010	20	500	200	25	75
1P99E	R	G	25	80010	20	500	200	25	75
1P99F	R	G	25	80010	20	500	200	25	75
1P99G	R	G	25	80010	20	500	200	25	75
1P99H	R	G	25	80010	20	500	200	25	75
1P99I	R	G	25	80010	20	500	200	25	75
1P99J	R	G	25	80010	20	500	200	25	75
1P99K	R	G	25	80010	20	500	200	25	75
1P99L	R	G	25	80010	20	500	200	25	75
1P99M	R	G	25	80010	20	500	200	25	75
1P99N	R	G	25	80010	20	500	200	25	75
1P99O	R	G	25	80010	20	500	200	25	75
1P99P	R	G	25	80010	20	500	200	25	75
1P99Q	R	G	25	80010	20	500	200	25	75
1P99R	R	G	25	80010	20	500	200	25	75
1P99S	R	G	25	80010	20	500	200	25	75
1P99T	R	G	25	80010	20	500	200	25	75
1P99U	R	G	25	80010	20	500	200	25	75
1P99V	R	G	25	80010	20	500	200	25	75
1P99W	R	G	25	80010	20	500	200	25	75
1P99X	R	G	25	80010	20	500	200	25	75
1P99Y	R	G	25	80010	20	500	200	25	75
1P99Z	R	G	25	80010	20	500	200	25	75
1P99AA	R	G	25	80010	20	500	200	25	75
1P99AB	R	G	25	80010	20	500	200	25	75
1P99AC	R	G	25	80010	20	500	200	25	75
1P99AD	R	G	25	80010	20	500	200	25	75
1P99AE	R	G	25	80010	20	500	200	25	75
1P99AF	R	G	25	80010	20	500	200	25	75
1P99AG	R	G	25	80010	20	500	200	25	75
1P99AH	R	G	25	80010	20	500	200	25	75
1P99AI	R	G	25	80010	20	500	200	25	75
1P99AJ	R	G	25	80010	20	500	200	25	75
1P99AK	R	G	25	80010	20	500	200	25	75
1P99AL	R	G	25	80010	20	500	200	25	75
1P99AM	R	G	25	80010	20	500	200	25	75
1P99AN	R	G	25	80010	20	500	200	25	75
1P99AO	R	G	25	80010	20	500	200	25	75
1P99AP	R	G	25	80010	20	500	200	25	75
1P99AQ	R	G	25	80010	20	500	200	25	75
1P99AR	R	G	25	80010	20	500	200	25	75
1P99AS	R	G	25	80010	20	500	200	25	75
1P99AT	R	G	25	80010	20	500	200	25	75
1P99AU	R	G	25	80010	20	500	200	25	75
1P99AV	R	G	25	80010	20	500	200	25	75
1P99AW	R	G	25	80010	20	500	200	25	75
1P99AX	R	G	25	80010	20	500	200	25	75
1P99AY	R	G	25	80010	20	500	200	25	75
1P99AZ	R	G	25	80010	20	500	200	25	75
1P99BA	R	G	25	80010	20	500	200	25	75
1P99BB	R	G	25	80010	20	500	200	25	75
1P99BC	R	G	25	80010	20	500	200	25	75
1P99BD	R	G	25	80010	20	500	200	25	75
1P99BE	R	G	25	80010	20	500	200	25	75
1P99BF	R	G	25	80010	20	500	200	25	75
1P99BG	R	G	25	80010	20	500	200	25	75
1P99BH	R	G	25	80010	20	500	200	25	75
1P99BI	R	G	25	80010	20	500	200	25	75
1P99BJ	R	G	25	80010	20	500	200	25	75
1P99BK	R	G	25	80010	20	500	200	25	75
1P99BL	R	G	25	80010	20	500	200	25	75
1P99BM	R	G	25	80010	20	500	200	25	75
1P99BN	R	G	25	80010	20	500	200	25	75
1P99BO	R	G	25	80010	20	500	200	25	75
1P99BP	R	G	25	80010	20	500	200	25	75
1P99BQ	R	G	25	80010	20	500	200	25	75
1P99BR	R	G	25	80010	20	500	200	25	75
1P99BS	R	G	25	80010	20	500	200	25	75
1P99BT	R	G	25	80010	20	500	200	25	75
1P99BU	R	G	25	80010	20	500	200	25	75
1P99BV	R	G	25	80010	20	500	200	25	75
1P99BW	R	G	25	80010	20	500	200	25	75
1P99BX	R	G	25	80010	20	500	200	25	75
1P99BY	R	G	25	80010	20	500	200	25	75
1P99BZ	R	G	25	80010	20	500	200	25	75
1P99CA	R	G	25	80010	20	500	200	25	75
1P99CB	R	G	25	80010	20	500	200	25	75
1P99CC	R	G	25	80010	20	500	200	25	75
1P99CD	R	G	25	80010	20	500	200	25	75
1P99CE	R	G	25	80010	20	500	200	25	75
1P99CF	R	G	25	80010	20	500	200	25	75
1P99CG	R	G	25	80010	20	500	200	25	75
1P99CH	R	G	25	80010	20	500	200	25	75
1P99CI	R	G	25	80010	20	500	200	25	75
1P99CJ	R	G	25	80010	20	500	200	25	75
1P99CK	R	G	25	80010	20	500	200	25	75
1P99CL	R	G	25	80010	20	500	200	25	75
1P99CM	R	G	25	80010	20	500	200	25	75
1P99CN	R	G	25	80010	20	500	200	25	75
1P99CO	R	G	25	80010	20	500	200	25	75
1P99CP	R	G	25	80010	20	500	200	25	75
1P99CQ	R	G	25	80010	20	500	200	25	75
1P99CR	R	G	25	80010	20	500	200	25	75
1P99CS	R	G	25	80010	20	500	200	25	75
1P99CT	R	G	25	80010	20	500	200	25	75
1P99CU	R	G	25	80010	20	500	200	25	75
1P99CV	R	G	25	80010	20	500	200	25	75
1P99CW	R	G	25	80010	20	500	200	25	75
1P99CX	R	G	25	80010	20	500	200	25	75
1P99CY	R	G	25	80010	20	500	200	25	75
1P99CZ	R	G	25	80010	20	500	200	25	75
1P99DA	R	G	25	80010	20	500	200	25	75
1P99DB	R	G	25	80010	20	500	200	25	75
1P99DC	R	G	25	80010	20	500	200	25	75
1P99DD	R	G	25	80010	20	500	200	25	75
1P99DE	R	G	25	80010	20	500	200	25	75
1P99DF	R	G	25	80010	20	500	200	25	75
1P99DG	R	G							

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with **PROVEN RELIABILITY**...



SILICON JUNCTION
SILICON-GERMANIUM ALLOY
GOLD BONDED GERMANIUM

GLASS DIODES and **POWER TRANSISTORS**



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HIGH SPEED SWITCHING
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10 WATT & 4 WATT

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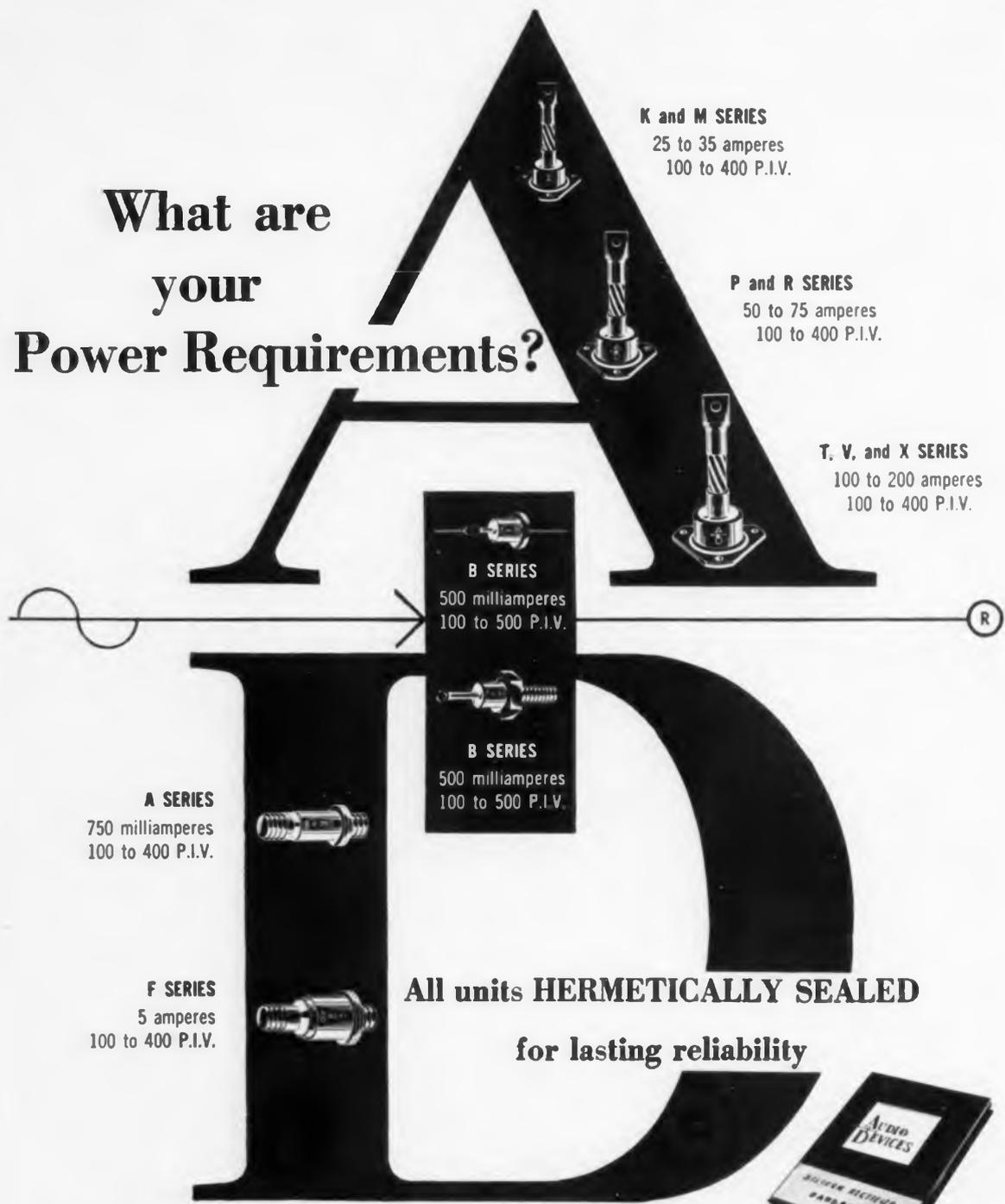
DIODE TYPE	CASE	MAT.	INVERSE			FORWARD			TEMP.	
			E_{PEAK} v	I_{PEAK} ma @ 1 v	E_{CORT} v	I_{SURGE} ma	I_{MIN} ma @ 1 v	OPER °C	MAX °C	

TRANSISTOR ELECTRONIC CORP.										
1N94	A	G	100	50-5	80	300	10		90	
1N100	A	G	100	50-5	80	300	20		90	
1N100A	H	G	100	50-5	80	300	40	25	90	
1N111	H	G	75		60		5		90	
1N112	H	G	75		60		5		90	
1N113	H	G	75		60		2.5		90	
1N114	H	G	75		60		2.5		90	
1N115	H	G	75		60		2.5		90	
1N116	A	G	75	1000-50	60	250	5		90	
1N117	A	G	75	1000-50	60	250	10		90	
1N118	A	G	75	1000-50	60	250	20		90	
1N118A	A	G	75	1000-50	60	250	40	25	90	
1N126	A	G	75	500-10	60	350	5	25	75	
1N126A	A	G	75	500-10	60	350	5	25	90	
1N127	A	G	125	250-10	100	300	3	25	75	
1N127A	A	G	125	250-10	100	300	3	25	90	
1N128	A	G	50	100-10	40	300	3	25	75	
1N137A	I	Si	30	010-20	25	3	125	150		
1N137B	I	Si	30	010-20	25	3	125	150		
1N138A	I	Si	18	010-10	12	5	125	150		
1N138B	I	Si	18	010-10	12	5	125	150		
1N139	I	Si	50	15000-50	40	500	20	125	150	
1N140	H	G	85	1000-50	70	750	40	25	90	
1N141	H	G	85	500-50	70	500	20	25	90	
1N142	H	G	125	1000-100	100	400	5	25	90	
1N143	H	G	200	1000-100	100	750	40	25	90	
1N144	H	G	40	2000-20	30	750	100	25	90	
1N145	H	G	40	1000-10	30	750	40	25	90	
1N191	A	G	75	1000-50	60	300	5	90	100	
1N192	A	G	70	1000-50	60	300	5	90	100	
1N198	A	G	100	100-10	80	300	4	75	75	
1N240A	50	5ma-50	50	100A	25A01	5	150	175		
1N240B	100	5ma-100	100	200A	50A01	5	150	175		
1N249A	100	5ma-100	100	100A	50A01	5	150	175		
1N250A	200	5ma-200	200	100A	25A01	5	150	175		
1N250B	200	5ma-200	200	200A	50A01	5	150	175		
1N251	A	Si	10	0.10-10	20	125	10	125	150	
1N252	A	Si	20	0.10-5	12	150	10	125	150	
1N253	A	Si	100	1000-95	100	4000	10000	1	150	175
1N254	200	1000-190	200	1500	5000	1	150	175		
1N255	400	1500-300	400	1500	5000	1	150	175		
1N256	600	2500-570	600	1000	5000	1	150	175		
1N270	A	G	100	1000-50	80	500	200	75	90	
1N273	A	G	35	200-20	30	450	100	25	90	
1N274	A	G	35	1000-50	60	400	100	90	100	
1N277	A	G	125	2500-50	100	400	100	75	90	
1N278	A	G	35	1250-50	50	400	100	25	90	
1N279	A	G	35	2000-20	30	450	100	25	90	
1N281	A	G	25	5000-50	60	400	100	75	90	
1N283	A	G	25	2000-10	20	500	200	25	90	
1N316	50					20002				
1N317	100					20002				
1N318	200					20002				
1N319	350					20002				
1N320	500					20002				
1N322	400	2000-400	400	10A	80002	150	175			
1N333	400	2000-400	400	10A	40002	150	175			
1N334	300	2000-300	300	10A	40002	150	175			
1N335	300	2000-300	300	10A	80002	150	175			
1N336	200	1000-200	200	10A	40002	150	175			
1N337	200	1000-200	200	10A	80002	150	175			
1N338	100	2000-100	100	20A	20002	150	175			
1N339	100	1000-100	100	10A	40002	150	175			
1N340	100	1000-100	100	10A	80002	150	175			
1N341	400	5000-400	400	10A	80002	150	175			
1N342	400	5000-400	400	10A	40002	150	175			
1N343	100	5000-100	100	10A	80002	150	175			
1N344	100	5000-100	100	10A	40002	150	175			
1N345	200	5000-200	200	10A	80002	150	175			
1N346	200	5000-200	200	10A	40002	150	175			
1N347	100	5000-100	100	20A	20002	150	175			
1N348	100	5000-100	100	10A	80002	150	175			
1N349	100	5000-100	100	10A	40002	150	175			
1N350	70	010-60	70	1	20	125	150			
1N351	120	010-100	120	1	20	125	150			
1N352	170	050-50	170	1	20	125	150			
1N353	225	10-200	225	1	20	125	150			
1N354	325	10-300	325	1	20	125	150			
1N360	100					10002				
1N361	200					10002				
1N362	350					10002				
1N363	500					10002				
1N411A	50	5ma-50	50	50A	100A01	5	150	175		
1N412A	100	5ma-100	100	50A	100A01	5	150	175		
1N413A	200	5ma-200	200	50A	100A01	5	150	175		
1N440R	no	02500-0	no	600	20	150	200			
1N441R	200	100-100	200	15A	150	175				
1N442R	300	100-100	300	15A	150	175				
1N443R	400	100-100	400	15A	150	175				
1N444R	500	100-100	500	15A	150	175				
1N446	30	025025	25	1 SA	40	150	200			
1N457	60	02500-0	no	400	20	150	200			
1N458	125	0250-125	125	500	3	150	200			
1N459	175	0250-175	175	400	3	150	200			
1N461	40	300-30	36	1A	10001	1	150	200		
1N462	no	300-60	70	1A	10001	1	150	200		
1N463	200	300-175	180	1A	10001	1	150	200		
1N464	150	300-125	130	1A	10001	1	150	200		

DIODE TYPE	CASE	MAT.	INVERSE			FORWARD			TEMP.	
			E_{PEAK} v	I_{PEAK} ma @ 1 v	E_{CORT} v	I_{SURGE} ma	I_{MIN} ma @ 1 v	OPER °C	MAX °C	

TRANSISTOR ELECTRONIC CORP.										
1N482	A	Si	40	300-30	36	1A	10001	1	150	200
1N482A	A	Si	40	150-30	36	2A	100	100	150	200
1N482B	A	Si	40	50-30	36	2A	100	100	150	200
1N483	A	Si	80	300-60	70	1A	10001	1	150	200
1N483A	A	Si	80	150-60	70	2A	100	100	150	200
1N483B	A	Si	80	50-60	70	2A	100	100	150	200
1N484	A	Si	150	100-125	130	1A	10001	1	150	200
1N484A	A	Si	150	50-125	130	2A	100	100	150	200
1N484B	A	Si	150	50-125	130	2A	100	100	150	200
1N485	A	Si	200	300-175	180	1A	10001	1	150	200
1N485A	A	Si	200	150-175	180	2A	100	100	150	200
1N485B	A	Si	200	50-175	180	2A	100	100	150	200
1N486	A	Si	250	500-225	225	1A	10001	1	150	200
1N486A	A	Si	250	250-225	225	2A	100	100	150	200
1N487	A	Si	330	500-300	300	1A	10001	1	150	200
1N487A	A	Si	330	250-300	300	2A	100	100	150	200
1N488	A	Si	420	500-380	380	1A	10001	1	150	200
1N488A	A	Si	420	250-380	380	2A	100	100	150	200
1N530	100			30-100	100	3A	250	150	200	
1N531	300			7-50200	200	3A	250	150	200	
1N532	300			1000-100	300	3A	250	150	200	
1N533	400			1500-600	400	3A	250	150	200	
1N534	600			17-50500	500	3A	250	150	200	
1N535	2000-600			2000-600	600	3A	250	150	200	
1N536	50			100-50	50	15A	50001	2	150	175
1N537	100			100-100	100	15A	50001	1	150	175
1N538	200			100-200	200	15A	50001	1	150	175
1N539	300			100-300	300	15A	50001	1	150	175
1N540	400			100-400	400	15A	50001	1	150	175
1N541	600			100-600	600	15A	50001	2	150	175
1N542	100			50-100	100	4A	350	150	200	
1N543	200			100-200	200	4A	350	150	200	
1N544	300			150-300	300	4A	350	150	200	
1N545	400			2-50400	400	4A	350	150	200	
1N546	500			3-50500	500	4A	350	150	200	
1N547	600			5-50600	600	4A	350	150	200	
1N548	800			1500-800	800	2A	200	150	200	
1N549	1000			2001-1000	1000	2A	200	150	200	
1N550	1500			1500-600	600	3A	300	150	200	
1N551	1000			2000-1000	1000	3A				

What are your Power Requirements?



K and M SERIES
25 to 35 amperes
100 to 400 P.I.V.

P and R SERIES
50 to 75 amperes
100 to 400 P.I.V.

T, V, and X SERIES
100 to 200 amperes
100 to 400 P.I.V.

B SERIES
500 milliamperes
100 to 500 P.I.V.

B SERIES
500 milliamperes
100 to 500 P.I.V.

A SERIES
750 milliamperes
100 to 400 P.I.V.

F SERIES
5 amperes
100 to 400 P.I.V.

**All units HERMETICALLY SEALED
for lasting reliability**



WRITE FOR YOUR COPY OF 68 PAGE
SILICON RECTIFIER HANDBOOK

AUDIO DEVICES, INC. Rectifier Division
620 EAST DYER ROAD • SANTA ANA • CALIFORNIA

Canadian Representative/Alox I. Clark, Ltd. • 3745 Bloor St. W., Toronto • International Representative/Rocke International Corp • 13 E. 40th St., N.Y. 16, N.Y.
INQUIRE DEPT. EI-6/58

DIODE TYPE	CASE	MAT.	INVERSE			FORWARD		TEMP.	
			E_{PEAK} V	I_{PEAK} mA @ 0.1V	I_{CONT} mA	I_{SURGE} mA	I_{MIN} mA @ 0.1V	ΔT_{OP} °C	T_{MAX} °C

TRANSISTRON ELECTRONIC CORP.

ZW7A	F		720	10700	720	3A	15004	125	150	
ZW8	F		1000	14900	900	2A	10084	125	150	
ZW9A	F		900	9000	600	3A	15084	125	150	
ZW12	F		1320	101200	1200	2A	10084	125	150	
ZW12A	F		1200	101200	1200	3A	15084	125	150	
ZW15	F		1680	101500	1500	2A	10084	125	150	
ZW15A	F		1500	101500	1500	3A	15084	125	150	
ZW20A	E		2000	142000	2000	3A	15084	125	150	
ZS			100050	50	500	100	100	15	75	
ZS4C	A	SA	20	10010	15	60	1	125	150	
ZS5C	A	SA	30	10010	20	100	7	125	150	
ZS6C	A	SA	15	10085	10	125	1	125	150	
ZS9C	A	SA	40	10020	30	100	2	125	150	
ZS10G	A	SA	15	10085	10	150	10001	7	125	150
ZS10G	H		5	1502	2	500	100	85		
ZS11G	H		5	1482	2	500	100	85		
ZS22	A	SA	80	25060	70	100	501.5	100	150	
ZS211	A	SA	150	250125	130	100	501.5	100	150	
ZS212	A	SA	200	250175	180	100	501.5	100	150	
ZS213	A	SA	40	25030	30	100	501.5	100	150	
ZS216	A	SA	80	25060	70	100	501.5	100	150	
ZS217	A	SA	150	250125	130	100	501.5	100	150	
ZS218	A	SA	200	250175	180	100	501.5	100	150	
ZS221	A	SA	80	25060	70	100	501.5	100	150	
ZS222	A	SA	150	250125	130	100	501.5	100	150	
ZS223	A	SA	200	250175	180	100	501.5	100	150	
ZS225	A	SA	40	25030	30	600	10001.5	100	150	
ZS226	A	SA	80	25060	70	600	10001.5	100	150	
ZS227	A	SA	150	250125	130	600	10001.5	100	150	
ZS228	A	SA	200	250175	180	600	10001.5	100	150	
ZS229	C		5	2502	2	6A	2A02	20	35	100
ZT1G	A	G	75	100040	40	350	20	35	100	
ZT2G	A	G	75	100040	60	400	40	35	100	
ZT3G	A	G	75	100050	60	350	20	25	100	
ZT4G	A	G	125	1000100	100	300	5	25	100	
ZT5G	A	G	125	1000100	100	400	40	25	100	
ZT6G	H	G	75	100040	40	350	20	35	100	
ZT7G	A	G	125	200100	100	450	100	25	100	
ZT8G	H	G	75	20050	60	600	100	25	80	
ZT9G	A	G	75	20050	60	450	100	25	80	
ZT10G	H	G	40	20040	30	750	100	25	100	
ZT11G	H	G	75	500050	60	500	20	25	80	
ZT12G	A	G	75	500050	60	350	20	25	100	
ZT13G	A	G	75	20010	20	750	40	25	80	
ZT14G	H	G	25	20010	20	400	40	25	80	
ZT15G	H	G	25	5010	20	500	40	25	80	
ZT16G	H	G	125	100090	90	750	125	25	80	
ZT17G	H	G	125	100090	90	450	125	25	100	
ZT18G	H	G	75	100040	40	500	40	25	80	
ZT19G	H	G	75	100040	40	300	5	25	80	
ZT20G	H	G	125	125050	50	200	20	75	80	
ZT21G	H	G	125	220040	40	350	200	75	80	
ZT22G	H	G	40	100040	40	300	200	75	80	
ZT23G	A	G	75	100050	50	200	20	75	80	
ZT24G	A	G	75	100050	50	175	20	75	80	
ZT25G	H	G	75	50020	25	200	20	75	80	
ZT26G	H	G	75	50020	25	175	20	75	80	
ZT27G	H	G	75	20010	15	250	40	75	100	
ZT28G	H	G	75	20010	15	200	40	75	100	
ZT29G	H	G	75	20010	15	250	20	60	100	
ZT30G	H	G	75	20010	15	250	20	60	100	
ZT31G	H	G	75	20010	15	250	20	60	100	
ZT32G	H	G	75	20010	15	250	20	60	100	
ZT33G	H	G	75	20010	15	250	20	60	100	
ZT34G	H	G	75	20010	15	250	20	60	100	
ZT35G	H	G	75	20010	15	250	20	60	100	
ZT36G	H	G	75	20010	15	250	20	60	100	
ZT37G	H	G	75	20010	15	250	20	60	100	
ZT38G	H	G	75	20010	15	250	20	60	100	
ZT39G	H	G	75	20010	15	250	20	60	100	
ZT40G	H	G	75	20010	15	250	20	60	100	
ZT41G	H	G	75	20010	15	250	20	60	100	
ZT42G	H	G	75	20010	15	250	20	60	100	
ZT43G	H	G	75	20010	15	250	20	60	100	
ZT44G	H	G	75	20010	15	250	20	60	100	
ZT45G	H	G	75	20010	15	250	20	60	100	
ZT46G	H	G	75	20010	15	250	20	60	100	
ZT47G	H	G	75	20010	15	250	20	60	100	
ZT48G	H	G	75	20010	15	250	20	60	100	
ZT49G	H	G	75	20010	15	250	20	60	100	
ZT50G	H	G	75	20010	15	250	20	60	100	
ZT51G	H	G	75	20010	15	250	20	60	100	
ZT52G	H	G	75	20010	15	250	20	60	100	
ZT53G	H	G	75	20010	15	250	20	60	100	
ZT54G	H	G	75	20010	15	250	20	60	100	
ZT55G	H	G	75	20010	15	250	20	60	100	
ZT56G	H	G	75	20010	15	250	20	60	100	
ZT57G	H	G	75	20010	15	250	20	60	100	
ZT58G	H	G	75	20010	15	250	20	60	100	
ZT59G	H	G	75	20010	15	250	20	60	100	
ZT60G	H	G	75	20010	15	250	20	60	100	
ZT61G	H	G	75	20010	15	250	20	60	100	
ZT62G	H	G	75	20010	15	250	20	60	100	
ZT63G	H	G	75	20010	15	250	20	60	100	
ZT64G	H	G	75	20010	15	250	20	60	100	
ZT65G	H	G	75	20010	15	250	20	60	100	
ZT66G	H	G	75	20010	15	250	20	60	100	
ZT67G	H	G	75	20010	15	250	20	60	100	
ZT68G	H	G	75	20010	15	250	20	60	100	
ZT69G	H	G	75	20010	15	250	20	60	100	
ZT70G	H	G	75	20010	15	250	20	60	100	
ZT71G	H	G	75	20010	15	250	20	60	100	
ZT72G	H	G	75	20010	15	250	20	60	100	
ZT73G	H	G	75	20010	15	250	20	60	100	
ZT74G	H	G	75	20010	15	250	20	60	100	
ZT75G	H	G	75	20010	15	250	20	60	100	
ZT76G	H	G	75	20010	15	250	20	60	100	
ZT77G	H	G	75	20010	15	250	20	60	100	
ZT78G	H	G	75	20010	15	250	20	60	100	
ZT79G	H	G	75	20010	15	250	20	60	100	
ZT80G	H	G	75	20010	15	250	20	60	100	
ZT81G	H	G	75	20010	15	250	20	60	100	
ZT82G	H	G	75	20010	15	250	20	60	100	
ZT83G	H	G	75	20010	15	250	20	60	100	
ZT84G	H	G	75	20010	15	250	20	60	100	
ZT85G	H	G	75	20010	15	250	20	60	100	
ZT86G	H	G	75	20010	15	250	20	60	100	
ZT87G	H	G	75	20010	15	250	20	60	100	
ZT88G	H	G	75	20010	15	250	20	60	100	
ZT89G	H	G	75	20010	15	250	20	60	100	
ZT90G	H	G	75	20010	15	250	20	60	100	
ZT91G	H	G	75	20010	15	250	20	60	100	
ZT92G	H	G	75	20010	15	250	20	60	100	
ZT93G	H	G	75	20010	15	250	20	60	100	
ZT94G	H	G	75	20010	15	250	20	60	100	
ZT95G	H	G	75	20010	15	250	20	60	100	
ZT96G	H	G	75	20010	15	250	20	60	100	
ZT97G	H	G	75	20010	15	250	20	60	100	
ZT98G	H	G	75	20010	15	250	20	60	100	
ZT99G	H	G	75	20010	15	250	20	60	100	
ZT100G	H	G	75	20010	15	250	20	60	100	

DIODE TYPE	CASE	MAT.	INVERSE			FORWARD		TEMP.	
			E_{PEAK} V	I_{PEAK} mA @ 0.1V	I_{CONT} mA	I_{SURGE} mA	I_{MIN} mA @ 0.1V	ΔT_{OP} °C	T_{MAX} °C

TRANSISTRON ELECTRONICS CORP.

TM76	C		700	5000700	700	5A	50002	130	175
TM84	C		800	5000800	800	20A	25A02	125	150
TM85	C		800	5000800	800	10A	00002	125	150
TM86	C		800	5000800	800	5A	40002	125	150
TM104	C		1000	50001000	1000	20A	2A02	125	150
TM105	C		1000	50001000	1000	10A	00002	125	150
TM106	C		1000	50001000	1000	5A	40002	125	150
TM124	C		1200	50001200	1200	6A	2A02	125	150
TM125	C		1200	50001200	1200	2.5A	00002	125	150
TM126	C		1200	50001200	1200	1.5A	40002	125	150
TM130	D		30	10000-30	30	90A	25A02	100	125
TM131	D		30	10000-50	30	90A	25A02	100	125
TM132	D		30	10000-100	30	90A	25A02	100	125
TM150	D		150	10000-150	150	90A	25A02	100	125
TM151	D		150	10000-150	150	100A	25A01	150	175
TM152	D		150	10000-1					

2 NEW INSTRUMENTS by TECHNITROL

THE DYNAMIC DIODE TESTER



An invaluable means for the rapid, accurate checking of semiconductor diodes for irregularities. The dynamic curve, more revealing than static testing, is quickly apparent on the screen, and is readily adapted to volume testing. And the easy portability of this 16-pound instrument makes it ideal for field work as well as for bench or rack installation.

Designed for use with the Cathode Ray Indicator, this moderate-price instrument provides for a variety of back and forward voltages, as well as independently-controlled ranges for back and forward currents.

THE CATHODE RAY INDICATOR



Send for Bulletin 1002

Provides a visual indicating device for the dynamic display of electrical signals and is intended primarily as an output indicating device for such instruments as the Dynamic Diode Tester and transistor curve tracers.

Also makes an ideal display unit for analogue computer and other applications where the repetitive cycle rate of display is consistent with screen persistences of available five-inch cathode ray tubes.

High-quality components assure a stable instrument which provides a very sharp focused beam on the face of the tube.

Designed for standard 19" relay rack mounting or with separate mounting legs at additional cost.

DESIGNED AND
BUILT BY



TECHNITROL
ENGINEERING COMPANY
1952 E. Allegheny Ave., Phila. 34, Pa.

Manufacturers of Pulse Transformers,
Delay Lines and Electronic Test Equipment.

FOR
RAPID,
PRECISE
TESTING
OF MOST
DIODES
★
AT
LOW
COST
AND IN
PRODUCTION
VOLUMES

DIODE TYPE	CASE	MAT.	INVERSE			FORWARD		TEMP.	
			E_{PEAK} V	I_{PEAK} mA @ 0.1 V	E_{CONT} V	I_{SURGE} mA	I_{OPR} mA @ 0.1 V	OPER °C	MAX °C

U. S. SEMICONDUCTOR PRODUCTS, INC.

Z-180	A	Zener voltage = 150 to 200V
Z-220	A	Zener voltage = 200 to 240V
Z-270	A	Zener voltage = 240 to 300V
Z-330	A	Zener voltage = 300 to 360V
Z-390	A	Zener voltage = 360 to 430V
Z-470	A	Zener voltage = 430 to 510V
Z-560	A	Zener voltage = 510 to 620V
ZT-3.9	A	Double anode Zener voltage = 3.6 to 4.3V
ZT-4.7	A	Double anode Zener voltage = 4.3 to 5.1V
ZT-5.6	A	Double anode Zener voltage = 5.1 to 6.2V
ZT-6.8	A	Double anode Zener voltage = 6.2 to 7.5V
ZT-8.2	A	Double anode Zener voltage = 7.5 to 9.1V
ZT-10	A	Double anode Zener voltage = 9.1 to 11V
ZT-12	A	Double anode Zener voltage = 11 to 13V
ZT-15	A	Double anode Zener voltage = 13 to 16V
ZT-18	A	Double anode Zener voltage = 16 to 20V
ZT-22	A	Double anode Zener voltage = 20 to 24V

WESTERN ELECTRIC CO., INC., Radio Division, 120 Broadway, New York, N. Y.
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IN1301	A	Si	32	3x10 ⁸	420	32	150	3	25	100	
IN1301	A	Si	16	10 ⁸	10	16	250	5	25	100	
IN6731	B	Si	350			18300	30A		25	150	
IN674	C	Si	4.12	p	10 ¹⁰	4 watt	3A	250	25	150	
IN674	C	Si	6.22	p	10 ¹⁰	4 watt	3A	250	25	150	
IN664	C	Si	8.22	p	10 ¹⁰	4 watt	3A	250	25	150	
IN665	C	Si	12	p	10 ¹⁰	4 watt	3A	250	25	150	
IN666	C	Si	15	p	10 ¹⁰	4 watt	3A	250	25	150	
IN667	C	Si	18	p	10 ¹⁰	4 watt	3A	250	25	150	
IN668	B	Si	6.22	p	10 ¹⁰	4 watt	3A	250	25	150	
IN669	C	Si	3.22	p	10 ¹⁰	4 watt	3A	250	25	150	
IN670	C	Si	6.22	p	10 ¹⁰	4 watt	3A	250	25	150	
IN671	C	Si	100	p	10 ¹⁰	4 watt	3A	250	25	150	
IN672	C	Si	150	p	10 ¹⁰	4 watt	3A	250	25	150	
IN414	A	Si		D	10000	200		25	150		
IN415	A	Si		D	28200	200	1A		25	150	
IN416	E	Si	8.22	p	10 ¹⁰	10 watt	100A	10A01	25	25	150
IN417	E	Si	15	p	10 ¹⁰	10 watt	100A	10A01	25	25	150
IN418	E	Si	18	p	10 ¹⁰	10 watt	100A	10A01	25	25	150
IN419	E	Si	18	p	10 ¹⁰	10 watt	100A	10A01	25	25	150
IN420	E	Si	22	p	10 ¹⁰	10 watt	100A	10A01	25	25	150
IN421	E	Si	27	p	10 ¹⁰	10 watt	100A	10A01	25	25	150
IN422	E	Si	33	p	10 ¹⁰	10 watt	100A	10A01	25	25	150
IN423	E	Si	40	p	10 ¹⁰	10 watt	100A	10A01	25	25	150
IN424	E	Si	50	p	10 ¹⁰	10 watt	100A	10A01	25	25	150
IN425	D	Si	8.22	p	10 ¹⁰	10 watt	10A	1A01	1	25	150
IN426	D	Si	12	p	10 ¹⁰	10 watt	10A	1A01	1	25	150
IN427	D	Si	15	p	10 ¹⁰	10 watt	10A	1A01	1	25	150
IN428	D	Si	18	p	10 ¹⁰	10 watt	10A	1A01	1	25	150
IN429	D	Si	22	p	10 ¹⁰	10 watt	10A	1A01	1	25	150
IN430	D	Si	27	p	10 ¹⁰	10 watt	10A	1A01	1	25	150
IN431	D	Si	33	p	10 ¹⁰	10 watt	10A	1A01	1	25	150
IN432	D	Si	40	p	10 ¹⁰	10 watt	10A	1A01	1	25	150
IN433	D	Si	50	p	10 ¹⁰	10 watt	10A	1A01	1	25	150

WESTINGHOUSE ELECTRIC CORP., Semiconductor Division, Youngwood, Pa.

IN1217	I	Si	50	1.5m	0400	400	500		100	
IN1217	I	Si	50	1.5m	0500	50	1.6A	500	140	175
IN1217A	I	Si	50	5000	50	1.6A	500	140	175	
IN1218	I	Si	100	1.5m	0100	100	1.6A	500	140	175
IN1218A	I	Si	100	5000	100	1.6A	500	140	175	
IN1219	I	Si	150	1.5m	0150	150	1.6A	500	140	175
IN1219A	I	Si	150	5000	150	1.6A	500	140	175	
IN1220	I	Si	200	1.5m	0200	200	1.6A	500	140	175
IN1220A	I	Si	200	5000	200	1.6A	500	140	175	
IN1221	I	Si	300	1.5m	0300	300	1.6A	500	140	175
IN1221A	I	Si	300	5000	300	1.6A	500	140	175	
IN1222	I	Si	400	1.5m	0400	400	1.6A	500	140	175
IN1222A	I	Si	400	5000	400	1.6A	500	140	175	
IN1223	I	Si	500	1.5m	0500	500	1.6A	500	140	175
IN1223A	I	Si	500	5000	500	1.6A	500	140	175	
IN1224	I	Si	600	1.5m	0600	600	1.6A	500	140	175
IN1224A	I	Si	600	5000	600	1.6A	500	140	175	
IN1225	I	Si	700	1.5m	0700	700	1.6A	500	140	175
IN1225A	I	Si	700	5000	700	1.6A	500	140	175	
IN1226	H	Si	50	1.5m	0500	50	1.6A	500	140	175
IN1227	H	Si	50	5000	50	1.6A	500	140	175	
IN1227A	H	Si	50	5000	50	1.6A	500	140	175	
IN1228	H	Si	100	1.5m	0100	100	1.6A	500	140	175
IN1228A	H	Si	100	5000	100	1.6A	500	140	175	
IN1229	H	Si	150	1.5m	0150	150	1.6A	500	140	175
IN1229A	H	Si	150	5000	150	1.6A	500	140	175	
IN1230	H	Si	200	1.5m	0200	200	1.6A	500	140	175
IN1230A	H	Si	200	5000	200	1.6A	500	140	175	
IN1231	H	Si	300	1.5m	0300	300	1.6A	500	140	175
IN1231A	H	Si	300	5000	300	1.6A	500	140	175	
IN1232	H	Si	400	1.5m	0400	400	1.6A	500	140	175
IN1232A	H	Si	400	5000	400	1.6A	500	140	175	
IN1233	H	Si	500	1.5m	0500	500	1.6A	500	140	175
IN1233A	H	Si	500	5000	500	1.6A	500	140	175	
IN1234	H	Si	600	1.5m	0600	600	1.6A	500	140	175
IN1234A	H	Si	600	5000	600	1.6A	500	140	175	
IN1235	H	Si	700	1.5m	0700	700	1.6A	500	140	175
IN1236	H	Si	800	1.5m	0800	800	1.6A	500	140	175
IN1341	E	Si	50	10m	0500	50	6A ¹	4A	175	190
IN1342	E	Si	100	10m	0100	100	6A ¹	4A	175	190

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DIODE TYPE	CASE	MAT.	INVERSE			FORWARD		TEMP.	
			E_{PEAK} V	I_{PEAK} mA @ 0.1 V	E_{CONT} V	I_{SURGE} mA	I_{OPR} mA @ 0.1 V	OPER °C	MAX °C

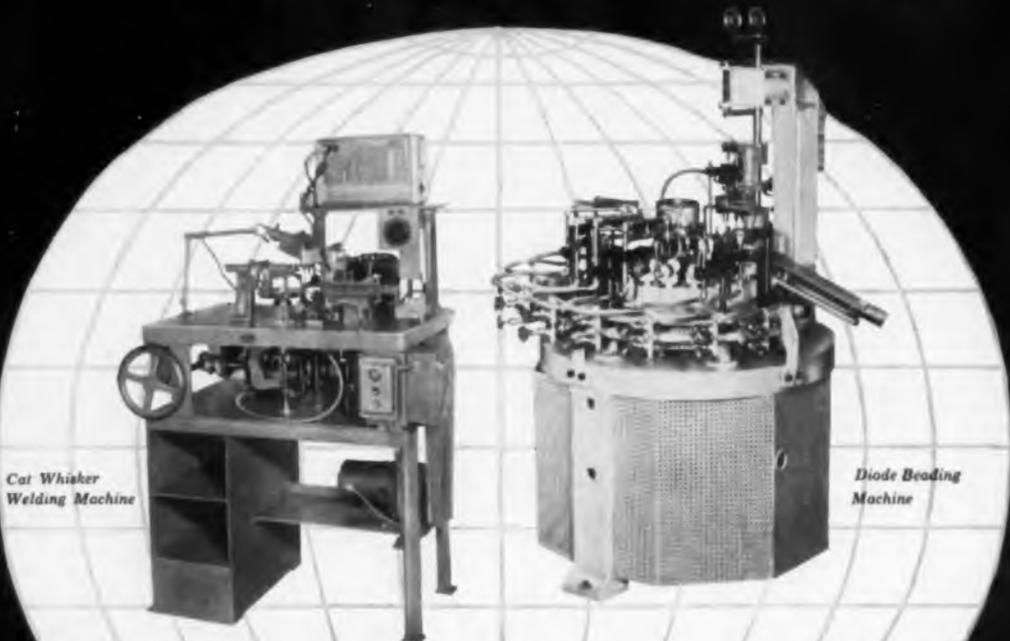
WESTINGHOUSE ELECTRIC CORP.

IN1343	E	Si	150	10m	0150	150	6A ¹	4A	175	190
IN1344	E	Si	200	10m	0200	200	6A ¹	4A	175	190
IN1345	E	Si	300	10m	0300	300	6A ¹	4A	175	190
IN1346	E	Si	400	10m	0400	400	6A ¹	4A	175	190
IN1347	E	Si	500	10m	0500	500	6A ¹	4A	175	190
IN1348	F	Si	600	10m	0600	600	6A ¹	4A	175	190
IN1443	I	Si	1000	1.5m	01000	1000	1.6A		140	175
IN1444	H	Si	1000	1.5m	01000	1000	1.6A		140	175
IN1486	I	Si	500				500		100	
IN1537	D	Si	50	5000	50	1.6A			140	175
IN1538	D	Si	100	5000	100	1.6A			140	175
IN1539	D	Si	150	5000	150	1.6A			140	175
IN1540	D	Si	200	5000	200	1.6A			140	175
IN1541	D	Si	300	5000	300	1.6A			140	175
IN1542	D	Si	400	5000	400	1.6A			140	175
IN1543	D	Si	500	5000	500	1.6A			140	175
IN1544	D	Si	600	5000	600	1.6A			140	175
102A	J	Si	50	20m	050	50	35A ¹	16A	150	190
102H	J	Si	100	20m	0100	100	35A ¹	16A	150	190
102C	J	Si	150	20m	0150	150	35A ¹	16A	150	190
102D	J	Si	200	20m	0200	200	35A ¹	16A	150	190
102E	J	Si	250	20m	0250	250	35A ¹	16A	150	190
102F	J	Si	300	20m	0300	300	35A ¹	16A	150	190
102G	J	Si	350	20m	0350	350	35A ¹	16A	150	190
102H	J	Si	400	20m	0400	400	35A ¹	16A	150	190
102K	J	Si	500	20m	0500	500	35A ¹	16A	150	190
102M	J	Si	600	20m	0600	600	35A ¹	16A	150	190
103A	J	Si	50	10m	050	50	22A ¹	4A	135	190
103B	J	Si	100	10m	0100	100	22A ¹	4A	135	190
103C	J	Si	150	10m	0150	150	22A ¹	4A	135	190
103D	J	Si	200	10m	0200	200	22A ¹	4A	135	190
103E	J	Si	250	10m	0250	250	22A ¹	4A	135	190
103F	J	Si	300	10m	0300	300	22A ¹	4A	135	190
103G	J	Si	350	10m	0350	350	22A ¹	4A	135	190
103H	J	Si	400	10m	0400	400	22A ¹	4A	135	190
103K	J	Si	500	10m	0500	500	22A ¹	4A	135	190
103M	J	Si	600	10m	0600	600	22A ¹	4A	135	190
104A	F	Si	50	10m	050	50	12A ¹	4A	150	190
104B	F	Si	100	10m	0100	100	12A ¹	4A	150	190
104C	F	Si	200	10m	0200	200	12A ¹	4A	150	190
104D	F	Si	300	10m	0300	300	12A ¹	4A	150	190
104E	F	Si	400	10m	0400	400	12A ¹	4A	150	190
104F	F	Si	500	10m	0500	500	12A ¹	4A	150	190
104G	F	Si	600	10m	0600	6				

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HUGHES SEMICONDUCTORS



**A COMPLETE LINE
DIODES • TRANSISTORS
RECTIFIERS • CAPACITORS**

Hughes is an acknowledged leader in the development and manufacture of semiconductor devices. Today the line is extensive, encompassing all major categories plus literally hundreds of individual types.

Significantly the approach is dynamic, the line ever-changing. Each phase of the Hughes program is devoted to vigorous development of new devices and to improvement of those already in existence. New techniques are incorporated; modern equipment is used throughout; and all persons involved are carefully chosen for the highly specialized work they must do. In no other way can Hughes continue to anticipate and meet the increasing requirements of industry.

The types listed on the following three pages are representative only. If your particular requirements demand a type which does not appear, ask for descriptive literature or a call from one of our sales engineers. Please write:

*Hughes Products
Semiconductor Division
International Airport Station
Los Angeles 45, California*

FIRST OF ALL, FOR RELIABILITY

HUGHES DIODES

—111—

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All types are rugged, thermally stable, tiny. They can withstand severe shock and vibration while operating successfully over a wide range of ambient temperatures. And they are packaged in the famous Hughes glass envelope. This envelope of one-piece, fusion-sealed construction was developed at Hughes to provide complete protection from contamination and moisture penetration. Maximum body dimensions: .107" x .265". Leads: .020" x 1", nominal. EIA, JAN, and special types are available to fulfill practically any circuit requirement. Both Germanium point-contact (see below) and Silicon Junction (see right) types available.

STANDARD GERMANIUM

Part No.	Forward Current (\approx 1V (mA min.)	WIV (V max.)	Reverse Current at Specified Test Voltage	
			μ A max.	(Volts)
1N67A	4.0	80	50	50
1N68A	3.0	100	625	100
1N69	3.5	80	100	50
1N90	5.0	60	500	50
1N95	10.0	60	500	50
1N96	20.0	80	500	50
1N97	10.0	80	100	50
1N98	20.0	80	100	50
1N99	10.0	80	50	50
1N100	20.0	80	50	50
1N116	5.0	60	100	50
1N117	10.0	60	100	50
1N118	20.0	60	100	50
1N126A*	5.0	60	50	10
1N127A*	3.0	100	300	50
1N128*	3.0	40	10	10
1N191	5.0		Back resistance between -10 and -50V greater than 811 K ohms @ 55°C	
1N192	5.0		Back resistance between -10 and -50V greater than 200 K ohms @ 55°C	
1N198*	5.0	80	250	50

Storage temperature range -78°C to 150°C
Operating temperature range -78°C to 90°C
* All measurements @ 75°C * JAN diodes

TRANSISTORIZED COMPUTER GERMANIUM

These diodes have been developed specifically for use in transistorized digital computers.

Part No.	Forward Current (\approx 0.5V (mA min.)	Reverse Current at 25°C at Specified Test Voltage (μ A max.)	(Volts)	Reverse Recovery*
HD2102	5	100	3	.25 μ sec From 1mA to -2 Volts
HD2106	1	10	5	
HD2109	3	100	20	.3 μ sec. From 1mA to -1 Volt

* Measured in Bell Telephone Laboratories test circuit

STANDARD SILICON

Part No.	Forward Current (\approx 1V (mA min.)	E_{BV}^{**} (V max.)	Reverse Current at Specified Test Voltage	
			(μ A max.) (\approx 25°C)	(Volts) (\approx 150°C)
1N456	40	30	.025	5
1N456A	100	30	.025	5
1N457*	20	70	.025	5
1N457A	100	70	.025	5
1N458*	7	150	.025	5
1N458A	100	150	.025	5
1N459*	3	200	.025	5
1N459A	100	200	.025	5
1N461	15	30	5	30
1N461A	100	30	5	30
1N462	5	70	5	30
1N462A	100	70	5	30
1N463	1	200	5	30
1N463A	100	200	5	30
1N464	3	150	5	30
1N464A	100	150	5	30

A full forward current range (including higher currents) is available in each voltage class. Storage and operating temperature range -78°C to +200°C

* JAN diodes

** Breakdown voltage at current of 0.100 mA

QUICK RECOVERY SILICON

Part No.	Forward Current (\approx 1.5V (mA min.)	E_{BV}^* (V min.)	Reverse Current at Specified Test Voltage	
			(μ A max.) (\approx 25°C)	(Volts) (\approx 100°C)
1N625	4	30	1.0	30
1N626	4	50	1.0	30
1N627	4	100	1.0	30
1N628	4	150	1.0	30
1N629	4	200	1.0	30
HD6642	6	50	1.0	30
HD6648	6	100	1.0	30
HD6573	6	150	1.0	30
HD6649	6	200	1.0	30
HD6635	15	90	1.0	30
HD6651	15	100	1.0	30
HD6641	15	150	1.0	30
HD6652	15	200	1.0	30

All types recover to 400 K ohms minimum in less than 1 μ sec switching 30 mA forward to -35V reverse in the modified IBM "Y" circuit. Also comparable performance under different switching conditions.

Operating temperature range -78°C to 150°C

Storage temperature range -78°C to 200°C

* Breakdown voltage at current of 0.100 mA

HIGH CONDUCTANCE SILICON

Part No.	Average Forward Current (mA max.) (\approx 25°C)	Maximum Forward Voltage (\approx 100mA) (Volts)	Reverse Current at Specified Test Voltage	
			(μ A Max.) (\approx 25°C)	(Volts) (\approx 150°C)
1N482	100	25	1.1	25
1N482A	200	50	1.0	.025
1N482B	200	50	1.0	.025
1N483	100	25	1.1	25
1N483A	200	50	1.0	.025
1N483B	200	50	1.0	.025
1N484	200	25	1.1	25
1N484A	200	50	1.0	.025
1N484B	200	50	1.0	.025
1N485	100	25	1.1	25
1N485A	200	50	1.0	.025
1N485B	200	50	1.0	.025
1N486	100	25	1.1	25
1N486A	200	50	1.0	.025
1N487	100	25	1.1	25
1N487A	200	50	1.0	.025
1N488	100	25	1.1	25
1N488A	200	50	1.0	.025

Operating temperature range -65°C to 200°C

RECTIFIERS



LOW POWER SILICON SERIES

These are efficient rectifiers with voltage ratings up to 975 volts, a low forward voltage drop, and low back leakage. They are capable of handling power values which are large for their size (.107" x .265" maximum, the famous diode package). Typical application: electronic power supplies where they can replace many vacuum tube rectifiers.

MEDIUM POWER SILICON SERIES

Hughes medium power rectifiers provide *more* power to the load at lower junction temperatures. They also feature a combination of high forward conductance and high breakdown voltage which permits rectifier performance never before achieved in the standard JETEC Group 20 stud mount package (7/16" hex). Lead-mount types are available also.

LOW POWER SILICON RECTIFIERS

	Reverse Working Voltage (VDC max.)	Average Rectified Forward Current (mA max.)
HR10251	175	200
HR10252	225	200
HR10253	275	200
HR10254	325	200
HR10255	375	200

Operating temperature range -78°C to +150°C
Derate average rectified current 1 mA/°C above 25°C

	Reverse Working Voltage (VDC max.)	Average Rectified Forward Current (mA max.)
HR10311	475	200
HR10312	575	200
HR10313	675	200
HR10314	775	200
HR10315	875	200
HR10316	975	200

Operating temperature range
HR10311 and HR10312 -65°C to +150°C
HR10313 thru HR10316 -65°C to +100°C
Derate average rectified current 1.5 mA/°C above 25°C

CAPACITORS



Hughes silicon capacitors are tiny, reliable devices whose capacitance is determined by the applied DC voltage. They are characterized by high Q and a wide capacitance range. Typical applications: remote control tuning, automatic frequency controls, frequency modulators. Once again, Hughes famous glass envelope is utilized.

SILICON CAPACITORS

	Capacity ±20%* (@ -4VDC (μmFD)	Maximum Voltage* (VDC)	Typical Capacity Range 0.1V to Max. Voltage (μmFD)	Typical Q** (@ 5Mc and Max. Voltage)	Typical Q** (@ 50Mc and Max. Voltage)
HC7001	35	130	6 to 88	360	39
HC7002	50	80	12 to 120	330	36
HC7004	70	60	20 to 170	270	30
HC7005	100	25	46 to 240	200	23
HC7006	35	25	14 to 88	175	20
HC7007	50	25	22 to 120	175	20
HC7008	70	25	32 to 170	175	20

Operating Temperature Range: -65°C to +150°C
Maximum Leakage Current
From Bias Voltage Supply: 1.0μA at 25°C, 50μA at 150°C
Capacitance Variation Over Rated
Temperature Range: 200 Parts Per Million/°C Max.

* Measured with Tektronix model 130 L.C. meter
** Measured with Boonton Q meter Model 260A
Maximum safe biasing voltage which may be applied with the correct polarity only.

MEDIUM POWER SILICON SERIES

Stud Mount Types					Lead Mount Types				
Part No.	Peak Inverse Voltage (Volts)	Average Rectified Current @ Specified Case Temperature		Average Inverse Current (mA, max.)*	Part No.	Peak Inverse Voltage (Volts)	Average Rectified Current @ Specified Ambient Temperature		Average Inverse Current (mA, max.)*
		Amps max.	(Degrees C)				(mA max.)	(Degrees C)	
1N253	95	1.0	135	0.1	1N536	50	250	150	0.4
1N254	190	0.4	135	0.15	1N537	100	250	150	0.4
1N255	380	0.4	135	0.15	1N538	200	250	150	0.3
1N256	570	0.2	135	0.25	1N539	300	250	150	0.3
HR10671	100	3.0	150	0.8	1N540	400	250	150	0.3
HR10673	200	3.0	150	0.5	1N547	600	250	150	0.3
HR10675	300	3.0	150	0.5	HR10422	100	350	100	0.1
HR10677	400	3.0	150	0.5	HR10423	200	350	100	0.1
HR10679	500	2.0	135	0.5	HR10424	300	350	100	0.1
HR10681	600	2.0	135	0.5	HR10425	400	350	100	0.1

* Averaged over one cycle at full rated conditions of current, voltage, and temperature with a resistive load.

HUGHES TRANSISTORS



SPECIFY HUGHES

This is a PNP silicon fused-junction series intended for audio applications at medium power levels. All types have another Hughes first, the metal package with coaxial leads particularly suited for automatic assembly. Because of the unique internal construction of this package, heat is dissipated very efficiently, and each unit can withstand severe vibration, centrifuge, and shock tests. Transistors with the TO-5 package are available.

... and know that the devices you receive are manufactured... first of all, for reliability. This means they will stay within published specifications under varied and severe operating conditions—a fact backed up by a phenomenal record of failure-free service in many military and commercial installations.

SILICON TRANSISTORS

	V_{CE0} ($I_C = -100\mu A$) (Volts)	V_{EBO} ($I_E = -100\mu A$) (Volts)	V_{BEBO} ($I_E = -100\mu A$) (Volts)	I_{CBO} ($V_{CB} = -5V$) (μA max.)	I_{EBO} ($V_{EB} = -5V$) (μA max.)	$F = 270\text{cps}$, $V_{CE} = -5V$, $I_E = 1\text{mAdc}$ $-h_{FE}$ (min.)	$f_{\alpha B}$ (mc min.)
HA7501	-50	-60	-60	-0.1	-0.1	800	0.5
HA7502	-50	-60	-60	-0.1	-0.1	930	0.5
HA7503	-110	-110	-20	-0.1	-0.1	930	0.5
HA7505	-20	-20	-20	-0.5	-0.5	800	0.5
HA7506	-35	-35	-35	-0.5	-0.5	910	0.5
HA7507	-20	-20	-20	-0.1	-0.1	900	1.5
HA7508	-50	-60	-20	-0.1	-0.1	930	0.5
HA7510	-35	-35	-35	-0.5	-0.5	950	0.5

Total transistor power dissipation in free air (derate 4mW per °C above 25°C) 500mW
 Total transistor power dissipation with base mounted in a clip attached to an infinite heat sink (derate 16mW per °C above 25°C) 2W
 Junction temperature range -55°C to 150°C
 V_{BE} max. ($I_C = 100\text{mAdc}$, $V_{CE} = -2V$ max.) 3V
 V_{CE} max. sat. ($I_C = -100\text{mAdc}$) 2V
 h_{FE} min. ($F = 270\text{cps}$, $V_{CE} = -5V$, $I_E = 1\text{mAdc}$) 60 ohms
 h_{FE} max. ($F = 270\text{cps}$, $V_{CE} = -5V$, $I_E = 1\text{mAdc}$) 001
 $h_{\alpha B}$ max. ($F = 270\text{cps}$, $V_{CE} = -5V$, $I_E = 1\text{mAdc}$) 2μmhos

Creating a new world with ELECTRONICS

HUGHES PRODUCTS

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HUGHES



SEMICONDUCTORS



DIRECT VIEW

storage tubes

HUGHES PRODUCTS TONOTRON*

Type 7033
Half-tone Storage Tube

Advantages such as controllable long persistence and ability to cover the entire grey spectrum contribute to the versatility of the Hughes TONOTRON direct display storage tube. Because the TONOTRON electron tube has an over-all length of only 11 3/8" ($\pm 3/8$ "*), it can be installed in many existing radar indicator housings in both military and commercial aircraft. Brilliance of 1500 foot-lamberts at 10 kv enables the pilot to view radar presentations in full daylight without using a vision-restricting viewing hood.



TYPOTRON*

Type 6577
Character-Writing Storage Tube ... for Use as a Read-Out Device for Computers

When used in such digital computer applications as programming aids, solution read-out and trouble-shooting, the Hughes TYPOTRON direct display storage tube effectively monitors a problem as it goes through various phases toward a solution. A choice of 63 characters is available for presentation of data in words, numbers or symbols at speeds of at least 25,000 characters per second. Written information remains visible indefinitely without fading or blooming until intentionally erased.



MEMOTRON*

Type 6498
Oscillograph Storage Tube ... for Retaining Displays of Electrical Phenomena

Traces and transients may be visibly retained on the face of the Hughes MEMOTRON direct display storage tube as long as desired — and successive waveforms can be displayed and retained for analysis and comparison without needless photography. When permanent records are required, photographs may be taken with a single camera exposure setting, since all displays occur at the same brightness regardless of differences in writing speeds.



© 1968, Hughes Aircraft Co.

TRAVELING WAVE TUBES

Hughes Products is active in the field of traveling wave tubes. TWT in S, X, and K bands of interest are now being delivered.

For information concerning any of the products described on this page please write:

HUGHES PRODUCTS • ELECTRON TUBE DIVISION
International Airport Station, Los Angeles 45, California

CIRCLE 28 ON INQUIRY CARD



APPLICATIONS:

Trouble shooting data reduction equipment.
Switch and relay study.
Ballistics and explosive research.
Ultrasonic flaw detection.
Physical Testing—shock, stress, strain.

SPECIFICATIONS:

Sweep Speed for Storage:
10 microseconds per division.
Frequency response: DC to 250 KC down 3db.
Sensitivity: 10 millivolts to 50 volts per division or with optional high sensitivity preamplifier 1 millivolt to 50 volts per division.

MEMO-SCOPE. Oscilloscope

a transient recorder with a memory

NEW

THERMAL RELAY *(single action switch)*

A one-time operating (normally open) single-pole thermal relay hermetically sealed. Three steps occur upon triggering an electrical signal:

- 1) Firing signal effects the release of constrained contact.
- 2) Contact closes upon a fixed contact point.
- 3) Switch circuit becomes permanently closed.

Typical Characteristics:

Mechanical: Size—0.252" dia. x 0.860" long envelope.
Weight—less than 0.1 oz.

Electrical: Before firing—insulation resistance is greater than 200 megohms. The minimum voltage breakdown is 600 volts.

NEW

MINIATURE MAGNETIC RELAY

Types HR10 and HR20 are hermetically sealed, highly reliable, and are interchangeable. HR10 features low noise, positive contact; and it is specifically designed for low-level operation.

HR20 features long life for voltages and currents higher than 10 volts.

OPERATING LEVELS:

Type HR10:

0-20 volts

0-10 ma

Min. life 5,000,000 cycles

Type HR20:

10-100 volts

10-30 ma

Min. life 15,000 cycles

NEW

PRECISION CRYSTAL FILTERS

Hughes Products crystal filters can help you solve your filtering problems at center frequencies of 30 kc to 30 mc and with fractional bandwidths of 0.10% to 6%.

ADVANTAGES: High frequency... high selectivity... excellent shock and vibration stability... low passband ripple... low insertion loss... small size and weight... temperature stability.

NEW

NUMERICAL MACHINE TOOL CONTROLS

Hughes Products has developed and is currently producing highly flexible numerical control systems. In its first application the system has successfully automated a complete and integrated line of machine tools. Innumerable other applications are possible.

For information concerning any of the products described on this page please write: HUGHES PRODUCTS, Dept. 91-60, International Airport Station, Los Angeles 45, California.

Creating a new world with ELECTRONICS

HUGHES PRODUCTS

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*
first from PHILCO



Philco Design Increases Power Dissipation As Much As Four Times For New 2N671 Transistor!

- Exclusive Copper-to-Glass Hermetic Sealing
- One Watt Power Dissipation
- New Higher Voltages . . . Higher Currents

Philco is proud to introduce the 2N671, a new power transistor, rated conservatively at one watt maximum dissipation in a studded version of TO-9 (JETEC 30) type package.

With collector and emitter voltage ratings of -40 V dc and a maximum current rating of 2 amps., the 2N671 is especially engineered for high powered relays, relay drivers, drum or tape writers, pulse amplifiers, communications and core switching applications.

For applications with lower power requirements the 2N670 is available, without stud mounting, at dissipations of 300 mw.

New Philco production techniques enable increases in thermal conductivity up to 8 times . . . power ratings as much as 4 times conventional ratings. These performance advantages can be applied to all classes of Philco transistors from audio frequencies through UHF.

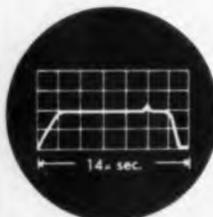
If your application needs an optimum approach to semiconductor performance . . . more power, greater heat dissipation, or increased reliability . . . consult Philco first.

Make Philco your prime source of information for all transistor applications.

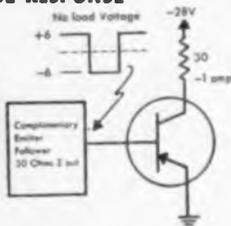
Write to Lansdale Tube Company, Division of Philco Corporation, Lansdale, Pa., Dept. EI 658

*
more
transistor
power in
standard[†]
packages!

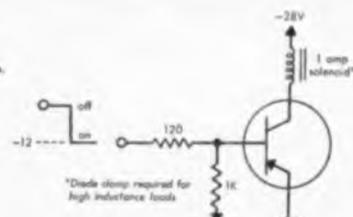
PULSE RESPONSE



[†] 200 mil. pin circle package TO-9-type



HIGH CURRENT SOLENOID DRIVER



*Diode clamp required for high inductance loads

PHILCO CORPORATION
LANSDALE TUBE COMPANY DIVISION
LANSDALE, PENNSYLVANIA

Circle 125 on Inquiry Card, page 175



TYPE	CASE	CLASS	Gr.	SI.	Audio	B-Amp.	Pwr.	i-f-rf	Sw.	Gen.	TYPICAL OPERATION *					MAXIMUM RATINGS							
											V _C	I _{CO}	I _{EO}	PG	α or β	T	f _a	V _{CE}	V _{CB}	I _C	P _C	T _J	K
											v	μ a	μ a	db		°C	mc	v	v	ma	mW	°C	°C/mW

ADVANCED RESEARCH ASSOCIATES, INC., 4130 Howard Ave., Kensington, Md.
2N626 A npn x x x x x 30 <1 25,000 71 .100 30 30 3a 10w 100

AMPEREX ELECTRONIC CORP., 230 Duffy Ave., Hicksville, N.Y.

2N109	A	npn	x	x	x	x	x	x	x	x	5.4	4.5	4.5	32	70	25	.35	32	32	70	125	75	.4
2N115	E	npn	x	x	x	x	x	x	x	x	14	20	50		40	25	.2	32	32	3a	50w	75	1
2N217	A	npn	x	x	x	x	x	x	x	x	5.4	4.5	4.5	32	70	25	.35	32	32	70	125	75	.4
2N279	A	npn	x	x	x	x	x	x	x	x	4.5	5	5		30	25	.3	30	30	50	125	75	.4
2N280	A	npn	x	x	x	x	x	x	x	x	4.5	4.5	5		47	25	.3	30	30	50	125	75	.4
2N281	H	npn	x	x	x	x	x	x	x	x	5.4	4.5	4.5	32	70	25	.35	32	32	125	167	75	.3
2N282 ¹	H	npn	x	x	x	x	x	x	x	x	5.4	4.5	4.5	32	70	25	.35	32	32	125	167	75	.3
2N283	A	npn	x	x	x	x	x	x	x	x	4.5	3.5	3.5		40	25	.5	30	32	10	125	75	.4
2N284	H	npn	x	x	x	x	x	x	x	x	5.4	4.5	4.5		45	25	.35	32	32	250	167	75	.3
2N284A	H	npn	x	x	x	x	x	x	x	x	5.4	4.5	4.5		45	25	.35	60	60	250	167	75	.3
OC30		npn	x	x	x	x	x	x	x	x	7	10	10		36	25	.3	32	32	1.4a	6.6w	75	7.5
OC44	C	pn-p	x	x	x	x	x	x	x	x	6	5	4	28	100	25	15	15	15	10	100	75	.5
OC45	C	npn	x	x	x	x	x	x	x	x	6	5	4	59	40	25	6	15	15	10	100	75	.5
OC65	D	npn	x	x	x	x	x	x	x	x	4.5	5	5		30	25	45	10	10	50	75	.65	
OC66	D	npn	x	x	x	x	x	x	x	x	4.5	5	5		47	25	47	10	10	50	75	.65	

1. Matched pair of 2N281. 2. With appropriate heat sink. 3. 0.25°C.

BENDIX AVIATION CORP., Red Bank Division, 201 Westwood Ave., Long Branch, N.J.

2N399	A	npn	x	x	x	x	x	x	x	x	14	1.5a2,3	281	40	25	.3	30	40	3a	25w	90	2°C/W
2N401	A	npn	x	x	x	x	x	x	x	x	14	1.3a2,3	301	50	25	.3	40	40	3a	20w	90	3.5°C/W
2N637	A	npn	x	x	x	x	x	x	x	x	14			10-600I _C =3Ade	4	40	40	3a	20w	90	2	
2N637A	A	npn	x	x	x	x	x	x	x	x	28			10-600I _C =3Ade	4	70	5Ade	25w	90	2		
2N637B	A	npn	x	x	x	x	x	x	x	x	28			10-600I _C =3Ade	4	80	5Ade	25w	90	2		
2N638	A	npn	x	x	x	x	x	x	x	x	14			20-600I _C =3Ade	4	40	5Ade	25w	90	2		
2N638A	A	npn	x	x	x	x	x	x	x	x	28			20-600I _C =3Ade	4	70	5Ade	25w	90	2		
2N638B	A	npn	x	x	x	x	x	x	x	x	28			20-600I _C =3Ade	4	80	5Ade	25w	90	2		
2N639	A	npn	x	x	x	x	x	x	x	x	14			15-300I _C =3Ade	4	40	5Ade	25w	90	2		
2N639A	A	npn	x	x	x	x	x	x	x	x	28			15-300I _C =3Ade	4	70	5Ade	25w	90	2		
2N639B	A	npn	x	x	x	x	x	x	x	x	28			15-300I _C =3Ade	4	80	5Ade	25w	90	2		
B-134	A	npn	x	x	x	x	x	x	x	x	14			400I _C =10Ade	4	40	15Ade	50w	100	1.5		
B-134A	A	npn	x	x	x	x	x	x	x	x	28			400I _C =10Ade	4	70	15Ade	50w	100	1.5		
B-134B	A	npn	x	x	x	x	x	x	x	x	28			400I _C =10Ade	4	80	15Ade	50w	100	1.5		

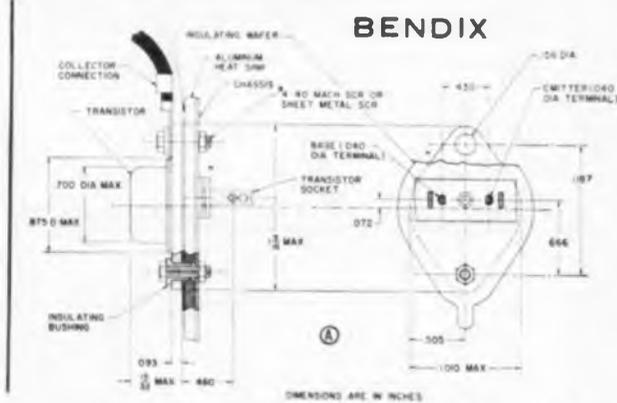
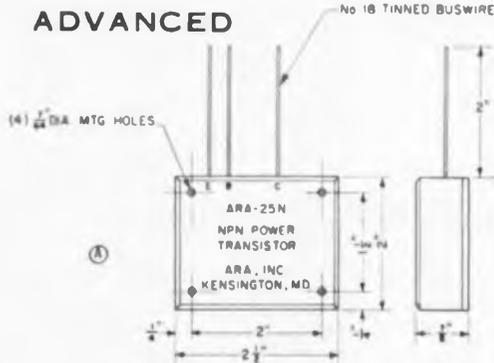
I. Two units in class B push-pull operation. 2. Peak. 3. I_E amperes.

BOGIE ELECTRIC MFG. CO., 100 Pennsylvania Ave., Paterson, N.J.

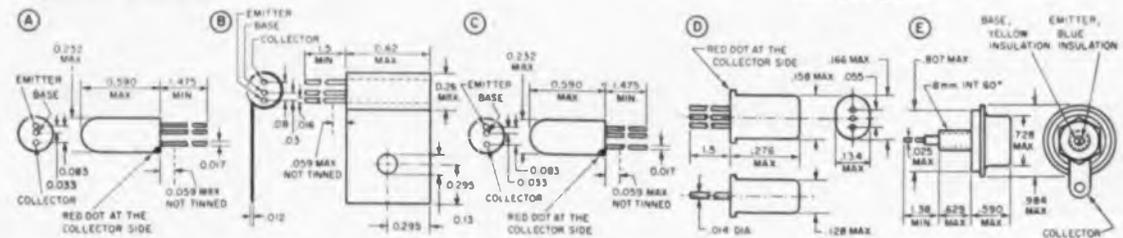
2N97	A	npn	x	x	x	x	x	x	x	x	10		20	15	1		30	30	10	50	75	.5
2N103	A	npn	x	x	x	x	x	x	x	x	10		22	5	.75		35	35	10	50	75	.5
2N160	A	npn	x	x	x	x	x	x	x	x	20		34	15	50	4	40	40	25	150	200	1
2N161	A	npn	x	x	x	x	x	x	x	x	20		37	30	50	5	40	40	25	150	200	1
2N162	A	npn	x	x	x	x	x	x	x	x	20		38	50	50	8	40	40	25	150	200	1
2N163	A	npn	x	x	x	x	x	x	x	x	20		40	50	50	6	40	40	25	150	200	1
2N312	A	npn	x	x	x	x	x	x	x	x	20		35	15	50	4	45	45	25	150	175	1
2N333	A	npn	x	x	x	x	x	x	x	x	20		39	33	50	5	45	45	25	150	175	1
2N334	A	npn	x	x	x	x	x	x	x	x	20		39	40	50	8	45	45	25	150	175	1
2N335	A	npn	x	x	x	x	x	x	x	x	20		42	49	50	6	45	45	25	150	175	1
2N336	A	npn	x	x	x	x	x	x	x	x	20		42.5	100	50	7	45	45	25	150	175	1
2N347	A	npn	x	x	x	x	x	x	x	x	20		35	25	50	5	60	60	60	750	175	.25
2N348	A	npn	x	x	x	x	x	x	x	x	40		35	25	50	5	90	90	50	750	175	.25
2N349	A	npn	x	x	x	x	x	x	x	x	60		35	25	50	5	125	125	40	750	175	.25
Y10A	A	npn	x	x	x	x	x	x	x	x	30		50	15	75	2	60	60	200	10w	175	2°C/W
Y31A	A	npn	x	x	x	x	x	x	x	x	45		40	15	75	2	90	90	160	10w	175	2°C/W
X32A	A	npn	x	x	x	x	x	x	x	x	60		30	15	75	2	125	125	140	10w	175	2°C/W

I_E, milliamperes.

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Raytheon PNP Germanium Fusion-Alloy Computer Transistors are approved for military applications. They provide:

- H_{FE} control at high currents
- High voltage ratings
- Fast switching speed
- Low saturation resistance
- Temperature range -65°C to $+85^{\circ}\text{C}$

ONE AMPERE, HIGH FREQUENCY, HIGH GAIN SWITCH

JEDEC-30 Type	Punch through Voltage min.	f_{ob} ave. Mc	H_{FE1} ave.		H_{FE2} ave.	I_{CO} at -12V $I_C = -1\text{mA}$ $V_{CE} = -0.25\text{V}$ μA	r_b' ohms	C_{ob} $V_{CB} = -6\text{V}$ μmF
			$I_B = 1\text{mA}$ $V_{CE} = -0.25\text{V}$	$I_B = 10\text{mA}$ $V_{CE} = -0.35\text{V}$				
2N658	-24	5	50	40	2.5	60	12	
2N659	-20	10	70	55	2.5	65	12	
2N660	-16	15	90	65	2.5	70	12	
2N661	-12	20	120	75	2.5	75	12	
2N662	-16	8	30 min	50	2.5	65	12	

MEDIUM CURRENT, HIGH FREQUENCY, HIGH GAIN SWITCH

JEDEC-30 Type	V_{CE} max. volts	f_{ob} ave. Mc	H_{FE1} ave.		H_{FE2} ave.	Rise Time* max. μsec
			$I_B = 1\text{ma}$ $V_{CE} = -0.25\text{V}$	$I_B = 10\text{ma}$ $V_{CE} = -0.35\text{V}$		
2N404	-24	12	30 min.	-	-	-
2N425	-20	4	30	18	1.0	1.0
2N426	-18	6	40	24	0.55	0.55
2N427	-15	11	55	30	0.44	0.44
2N428	-12	17	80	40	0.33	0.33

* $I_C = 50\text{ ma}$, $I_B = 5\text{ ma}$, $R_L = 200\ \Omega$; $I_B = 5\text{ ma}$; Grounded Emitter Circuit

SUBMIN Type	V_{CE} max. volts	f_{ob} ave. Mc	H_{FE1} ave.		H_{FE2} ave.	Rise Time* max. μsec
			$I_B = 1\text{ ma}$ $V_{CE} = -0.25\text{V}$	$I_B = 10\text{ ma}$ $V_{CE} = -0.35\text{V}$		
CK25	-20	4	30	18	1.0	1.0
CK26	-18	6	40	24	0.55	0.55
CK27	-15	11	55	30	0.44	0.44
CK28	-12	17	80	40	0.33	0.33

Ratings at 25°C unless otherwise indicated. Illustrations actual size.
 Dissipation Coefficients: For 1 Amp types, in air $0.35^{\circ}\text{C}/\text{mW}$, infinite sink $0.18^{\circ}\text{C}/\text{mW}$
 For med. current types, in air $0.40^{\circ}\text{C}/\text{mW}$, infinite sink $0.18^{\circ}\text{C}/\text{mW}$
 For submin types, in air $0.75^{\circ}\text{C}/\text{mW}$, infinite sink $0.35^{\circ}\text{C}/\text{mW}$

designed for computer service

made for computer service

tested for computer service

proved dependable in computer service

PREFERRED by computer designers



SEMICONDUCTOR DIVISION

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 New York.....589 Fifth Ave., Plaza 9-3900
 Chicago: 9501 Grand Ave., Franklin Park, National 5-6130
 Los Angeles: 5236 Santa Monica Blvd., NOrmandy 5-4221

NPN • PNP • NPN • PNP • NPN • PNP • NPN • PNP

SIX REASONS
WHY YOU SHOULD BUY

RAYTHEON SILICON
TRANSISTORS



1. NPN as well as PNP — *only Raytheon offers both* — with characteristics so similar as to permit use in complementary circuits



2. Higher, more constant beta



3. Lower saturation voltage

Actual Size



4. Characteristics more constant over the entire -65°C to $+160^{\circ}\text{C}$ range



5. Low noise type available in both PNP and NPN



6. Made by the reliable *fusion-alloy* process

PNP SILICON TRANSISTORS Temperature Range -65°C to $+160^{\circ}\text{C}$	JETEC-30 Type	Reverse Current at -20V		V_{CE} Max. Volts	H_{FE} ave. at $I_B = -0.1\text{mA}$ $V_{CE} = -0.5\text{V}$	Base Resistance ohms	Collector Resistance kilohms	Noise Figure db (max.)	Collector Capacity μmf	Alpha Freq. Cutoff KC
		Collector μA	Emitter μA							
	2N327A	0.005	0.005	-40	15	1200	500	30	65	200
	2N328A	0.005	0.005	-30	30	1400	500	30	65	300
	2N329A	0.005	0.005	-20	60	1500	500	30	65	400
	2N330A	0.005	0.005	-20	25	1300	500	15	65	250

NPN SILICON TRANSISTORS Temperature Range -65°C to $+160^{\circ}\text{C}$	JETEC-30 Type	Reverse Current at 20V		V_{CE} Max. Volts	H_{FE} ave. at $I_B = 0.5\text{mA}$ $V_{CE} = 1.5\text{V}$	Base Resistance ohms	Collector Resistance kilohms	Noise Figure db (max.)	Collector Capacity μmf	Alpha Freq. Cutoff KC
		Collector μA	Emitter μA							
	2N619	0.005	0.005	50	15	2000	500	30	35	200
	2N620	0.005	0.005	40	30	2500	500	30	35	350
	2N621	0.005	0.005	30	60	2700	500	30	35	500
	2N622	0.005	0.005	30	25	2400	500	15	35	300

All ratings are for 25°C All types measured at $V_{CE} = 6\text{V}$ and $I_B = 1\text{mA}$ For all types: Dissipation Coefficient in air, $0.4^{\circ}\text{C}/\text{mW}$, infinite sink, $0.25^{\circ}\text{C}/\text{mW}$.



SEMICONDUCTOR DIVISION

Silicon and Germanium Diodes and Transistors • Silicon Rectifiers

Newton, Mass..... 55 Chapel St., Bigelow 4-7500

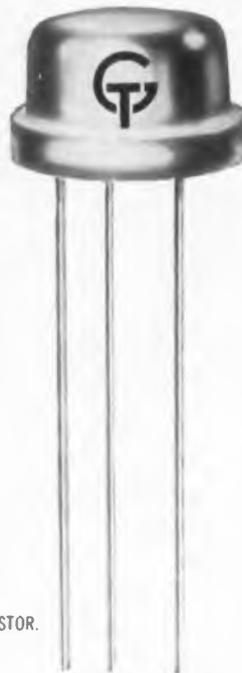
New York..... 589 Fifth Ave., Plaza 9-3900

Chicago: 9501 Grand Ave., Franklin Park, NAional 5-6130

Los Angeles: 5236 Santa Monica Blvd., NOrmandy 5-4221

ready to go in

either direction



another

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General Transistor has developed another new transistor series—the Bilateral PNP 2N592, 2N593 and NPN 2N594, 2N595, 2N596. These germanium alloyed junction transistors have been designed to allow current to flow in either direction—valuable in medium speed switching applications as in computers, communications equipment, multiplexing devices, and for bi-directional switching and phase detection systems.

The characteristics of these transistors are guaranteed in both directions. Their symmetrical design allows extremely low saturation resistances and switching properties. Ordinary uni-directional types lack this advantage. The NPN types have an alpha cutoff frequency range of 1.5 to 10.0 megacycles.

For complete technical specifications write for illustrated brochure G-170.

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Bring transistor circuits to life in a matter of minutes with the Sprague LF-1 Transimulator. This new instrument lets you simulate any amplifier stage, a-c or direct-coupled, short of high power audio output; also multivibrator, switching, phasing, push-pull, Class A and B, and many others using cross-coupled Transimulators . . . whether the circuit is common or grounded emitter, base, or collector . . . whether the transistors are PNP, NPN, or Surface Barrier. You can simulate circuits stage-by-stage for cascade operation . . . or use a separate Transimulator for each stage to get simultaneous multi-stage operation.

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Everything you need for RC amplifier circuits is built right into the LF-1, including coupling capacitors . . . bias and load resistors . . . battery voltage supplies . . . Base Collector—Voltage Divider stabilization circuits . . . 5-way binding posts for transformer coupling and metering.

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An ideal laboratory instrument, Transimulators are inexpensive enough to justify several on every bench. You can even use the LF-1 to test transistors *in the circuit* . . . the only real proof of design parameters. And a complete step-by-step instruction manual makes operation fast, simple, and easy.

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- EMITTER RESISTANCE—Up to 2,500 ohms variable. Series resistor and bypass capacitor can be added.
- BASE COLLECTOR STABILITY—Up to 250,000 ohms variable. Series resistor and bypass capacitor can be added.
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- 5-WAY BINDING POSTS—For meters, transformer coupling, external supply voltage, degeneration, bypass, coupling, signal input and output, almost any connection required.

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ices of our Application Engineering Department on circuitry problems. Write SEMICONDUCTOR PRODUCTS, BENDIX AVIATION CORPORATION, LONG BRANCH, NEW JERSEY.

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New York 17, N. Y. Canadian Distributor: Computing Devices of Canada,
Ltd., P.O. Box 508, Ottawa 4, Ontario

Red Bank Division



TYPE	CASE	CLASS	Ge.	Si.	Audio	B-Amp.	Pwr.	f-f	Sw.	Gen.	TYPICAL OPERATION						MAXIMUM RATINGS					
											V _C v	I _{CO} μA	I _{EO} μA	PG db	α or β	T °C	f _α mc	V _{CE} v	V _{CB} v	I _C ma	P _C mw	T _J °C	K °C/mw

INDUSTRO TRANSISTOR CORP., 35-10 36th Avenue, Long Island City 6, N.Y.

2N315	A	npn	x								.2	1			20	5	15	20		110	85	.4
2N316	A	npn	x								.2	1			30	12	10	20		110	85	.4
2N317	A	npn	x								.2	1			30	20	6	20		110	85	.4
2N359	A	npn	x		x	x					6	6			150	1.2	20	45		150	85	.36
2N360	A	npn	x		x	x					6	6			100	1.0	20	45		150	85	.35
2N361	A	npn	x		x	x					6	6			70	.8	30	45		150	85	.36
2N362	A	npn	x		x	x					6	6			120	1.0	20	45		150	85	.36
2N363	A	npn	x		x	x					6	6			50	.8	40	45		150	85	.36
2N398	A	npn	x		x	x					.35	6			20		105	105		150	85	.36
2N404	A	npn	x								.25	1			30	.4		25		110	85	.4
2N413	A	npn	x								6	6			25	2.5	18			85	.4	
2N414	A	npn	x								6	6			40	7	15	30		110	85	.4
2N416	A	npn	x								6	6			60	10	12	30		110	85	.4
2N417	A	npn	x								6	6			80	20	10	30		110	85	.4
2N422	A	npn	x		x	x					6	6			50	.8	20	35		150	85	.35
2N425	A	npn	x		x	x					.25	1			30	4	20	30		110	85	.4
2N426	A	npn	x								.25	1			40	6	18	30		110	85	.4
2N427	A	npn	x								.25	1			55	11	15	30		110	85	.4
2N428	A	npn	x								.25	1			80	17	12	30		110	85	.4
2N464	A	npn	x		x	x					6	6			26	.7	40	45		150	85	.36
2N465	A	npn	x		x	x					6	6			45	.8	30	45		150	85	.36
2N466	A	npn	x		x	x					6	6			90	1	20	35		150	85	.36
2N467	A	npn	x		x	x					6	6			180	1.2	15	35		150	85	.36
2N481	A	npn	x								6	6			6	4	12	30		110	85	.4
2N482	A	npn	x								6	6			3	3	12	30		110	85	.4
2N483	A	npn	x								6	6			5	5	12	30		110	85	.4
2N485	A	npn	x								6	6			5	5	12	30		110	85	.4
2N486	A	npn	x								6	6			9	9	10	30		110	85	.4
2N519	A	npn	x								4.5	2			25	2	15	15		110	85	.6
2N520	A	npn	x								4.5	2			40	5	12	15		110	85	.6
2N521	A	npn	x								4.5	2			70	10	10	15		110	85	.6
2N522	A	npn	x								4.5	2			120	20	8	15		110	85	.6
2N523	A	npn	x								4.5	2			200	30	6	15		110	85	.6
TR-10	A	npn	x								6	6			25	5	30	50		150	85	.36
TR-19	A	npn	x								6	6			60	1.5	25	45		150	85	.36
TR-01	A	npn	x		x	x					6	6			65	1.0	25	45		150	85	.36
TR-07	A	npn	x								6	6			38	.5	25	45		150	85	.36
TR-08	A	npn	x								6	6			80	1.0	25	45		150	85	.36
TR-269	A	npn	x								.15	1			30	4	15	25		85	.4	
TR-722	A	npn	x		x	x					6	6			22		20	45		150	85	.36
TR-764	A	npn	x								6	1			200	25	10	20		110	85	.4

1. Maximum gain at 1.5MC. 2. Maximum conversion gain @ 1640KC. 3. Maximum gain @ 455KC.

MINNEAPOLIS-HONEYWELL REGULATOR CO., Semiconductor Products, 2753 Fourth Ave., South, Minneapolis 8, Minn.

2N538	A	npn	x		x	x	x				.28	3ma	31	30	80	3a	20w	95	2.2°C/W	
2N538	A	npn	x		x	x	x				.28	3ma	31	30	80	3a	20w	95	2.2°C/W	
2N539	A	npn	x		x	x	x				.28	3ma	34	43	80	3a	20w	95	2.2°C/W	
2N539A	A	npn	x		x	x	x				.28	3ma	34	43	80	3a	20w	95	2.2°C/W	
2N540	A	npn	x		x	x	x				.28	3ma	37	64	80	3a	20w	95	2.2°C/W	
2N540A	A	npn	x		x	x	x				.28	3ma	37	64	80	3a	20w	95	2.2°C/W	
2N574	B	npn	x		x	x	x				1.8ma	24	12	60	65w	95	.7°C/W			
2N574A	B	npn	x		x	x	x				1.8ma	24	12	60	65w	95	.7°C/W			
2N575	B	npn	x		x	x	x				1.8ma	27	10	60	65w	95	.7°C/W			
2N575A	B	npn	x		x	x	x				1.8ma	27	10	60	65w	95	.7°C/W			
H3A	A	npn	x		x	x	x				.28	150	2-2	21	12	-60	-350	3-4	95	14°C/W
H4A	A	npn	x		x	x	x				.28	150	3-2	23	15	-60	-500	3-4	95	14°C/W

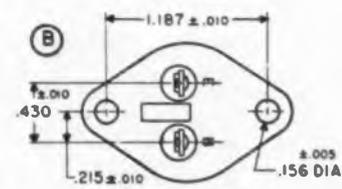
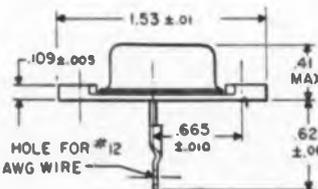
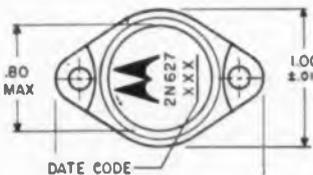
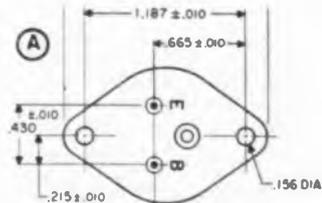
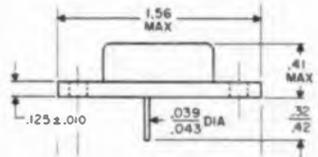
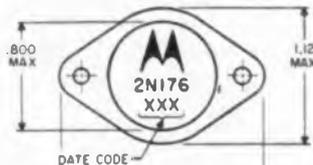
1. 860v. 2. Typical power output, class B push-pull. 3. DC Beta. 4. @ T_J = 50°C.

MOTOROLA INC., Semiconductor Products Div., 5005 East McDowell Rd., Phoenix, Arizona

2N176	A	npn	x		x	x	x				12	3ma	36	45	80	5kc	30	40	3a	10w	90	1°C/W
2N178	A	npn	x		x	x	x				12	3ma	30	30	80	5kc	30	40	3a	10w	90	1°C/W
2N350	A	npn	x		x	x	x				12	3ma	32	40	80	5kc	30	40	3a	10w	90	1°C/W
2N351	A	npn	x		x	x	x				12	3ma	34	60	80	5kc	30	40	3a	10w	90	1°C/W
2N375	A	npn	x		x	x	x				28	3ma	37	55	80	7kc	65	80	5a	10w	90	1°C/W
2N376	A	npn	x		x	x	x				12	3ma	36	80	80	5kc	30	40	3a	10w	90	1°C/W
2N554	npn	x			x	x	x				6	3ma	32	65	80	5kc	30	30	3a	10w	90	1°C/W
2N555	npn	x			x	x	x				12	3ma	35	65	80	5kc	30	40	3a	10w	90	1°C/W
2N618	A	npn	x		x	x	x				28	3ma	39	90	80	5kc	65	80	5a	10w	90	1°C/W
2N627	B	npn	x		x	x	x				28	3ma	60	30	5kc	30	40	10a	50w	90	1.2°C/W	

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MOTOROLA



Now, Tung-Sol offers designers a complete line of high reliability Germanium PNP Transistors!



Tung-Sol types and ratings are listed below with the types they replace. From these, spot your needs! Then, for long-life operation, specify Tung-Sol!

TYPE	APPLICATION	MAXIMUM RATINGS (25° C)					TYPICAL VALUES (25° C)					SIMILAR TYPE REFERENCE
MEDIUM POWER AUDIO TYPES (To-9 Outline)		Pc m=	Vce volts	Vcb volts	Ic ma	Tj °C	MAX μa	Icbo	Hfe	f _β mc	Ge db	
2N381	Output Amplifier	200	25	25	200	85	20	36	1.2	31		2N61, 2N186/A, 2N187/A, 2N266
2N382	Output Amplifier	200	25	25	200	85	20	54	1.5	33		2N60, 2N180, 2N181, 2N185, 2N188/A, 2N226, 2N311, 2N403, 2N408
2N383	Output Amplifier	200	25	25	200	85	20	72	1.8	35		2N59, 2N224, 2N241/A, 2N265, 2N270
2N460	General Purpose Industrial	200	—	45	400	100	15	25	1.5	39		2N44
2N461	General Purpose Industrial	200	—	45	400	100	15	50	1.5	41		2N43
HIGH FREQUENCY TYPES (To-9 Outline)												
2N404	Computer	100	24	30	400	85	5	30	12	—		2N581
2N425	Computer	100	20	30	400	85	5	30	4	—		2N394, 2N578
2N426	Computer	100	18	25	400	85	5	40	6	—		2N269, 2N395, 2N579
2N427	Computer	100	15	20	400	85	5	55	11	—		2N123, 2N315, 2N396, 2N580
2N428	Computer	100	12	15	400	85	5	80	17	—		2N316, 2N397, 2N582
2N413	RF Amplifier	100	15	—	200	85	5	—	3	—		2N111, 2N135, 2N410
2N414	RF Amplifier	100	15	—	200	85	5	—	5	—		2N139, 2N112, 2N136, 2N218, 2N412
2N416	RF Amplifier	100	15	—	200	85	5	—	10	—		2N113
2N417	RF Amplifier	100	15	—	200	85	5	—	20	—		2N114
HIGH POWER TYPES (To-3 Outline)		Pc w	Vce volts	Vcb volts	Ic Amps.	Tj °C	MAX ma	Icbo	Hfe	f _β mc	Ge db	
2N242	Audio Amplifier	15	45	—	2	85	1.0	50	0.4	34		2N155, 2N176, 2N250, 2N257, 2N301/A, 2N350, 2N351, 2N554, 2N555
2N378	Power Switch	15	20	40	3	85	0.5	35	0.3	24		2N255
2N379	Power Switch	15	40	80	3	85	0.5	30	0.3	23		2N158/A, 2N251, 2N296, 2N297
2N380	Power Switch	15	30	60	3	85	0.5	60	0.4	29		2N156, 2N256, 2N387
2N459	Power Switch	15	60	105	3	85	0.5	40	0.3	24		2N375

NOTE: Similar type references are listed at time of printing and should be interpreted as approximate equivalents. This reference does not necessarily imply exact electrical or mechanical interchangeability.

To fill your special transistor requirements or for full facts on any of these standard Tung-Sol types, write or phone: *Semiconductor Division, Tung-Sol Electric Inc., Newark 4, New Jersey. Sales Offices: Atlanta, Ga., Columbus, Ohio, Culver City, Calif., Dallas, Tex., Denver, Colo., Detroit, Mich., Irvington, N. J., Melrose Park, Ill., Newark, N. J., Seattle, Wash. . . . Canada: Toronto, Ont.*

TUNG-SOL

Transitron... leadership

Type	Ratings at 150°C		
	Maximum Average Forward Current (Amps)	Peak Recurrent Inverse Voltage (Volts)	Maximum Inverse Current (ma)
1N684	.15	400	.2
1N689	.15	600	.2
1N683	.075	400	.2
1N687	.075	600	.2
1N538	.25	200	.35
1N540	.25	400	.35
1N547	.25	400	.35
2W151†	.05	1500	.05
1N253*	1.0	95	.1
1N254*	0.4	190	.1
1N255*	0.4	380	.15
1N256*	0.2	570	.25
TM47	3	400	.5
TM67	3	600	.5
TM104†	1	1000	.5
1N250A	20	200	5
TR402	20	400	5
1N412B	50	100	5
1N413B	50	200	5
TH 402B	50	400	5

*JAN types Rated at 135°C Case Temperature
†Rating at 125°C

SILICON RECTIFIERS

- Ratings to 1000 volts
- Operation to 175° C
- High Current Ratings
- Reverse Polarity Types available
- Choose from subminiature, axial lead and stud mounted packages



SEND FOR TE-1351

Many special mountings and packages are available, including stacks, encapsulated and epoxy potted quads and circuits. Your inquiries are invited.

Type	Maximum Inverse Operating Voltage (volts)	Maximum Average Forward Current (ma)	Maximum Inverse Current (µa) @ V
Ratings at 150°C			
1N486A	225	50	25 @ 225
1N488A	380	50	25 @ 380
1N457*	60	25	5 @ 60
1N458*	125	25	5 @ 125
1N459*	175	25	5 @ 175
Ratings at 125°C			
1N251*	30	30	10 @ 10
1N252	20	40	10 @ 5
Recovery time .15 µsec			
Ratings at 100°C			
SG213	200	12	50 @ 175
Recovery time .3 µsec			
SG223	200	25	50 @ 175
Recovery time .5 µsec			

*JAN Types

SILICON DIODES

- Operation to 200° C
- High Forward Conductance
- High Voltage Ratings
- Fast Switching Time
- Low Shunt Capacitance
- Subminiature Size



SEND FOR TE-1350

Type	Forward Current at +1V (ma)	Inverse Current at Specified Voltage (µa @ V)	Maximum Operating Voltage (volts)	Description
1N270	200	100 @ -50	80	
1N277	100	250 @ -50 75 @ -10 @ 75°C	100	
1N276	40	100 @ -50	50	JAN Types
1N281	40	500 @ -50 30 @ -10	60	
1N127A	5	300 @ -50 25 @ -10	100	
1N198	5	250 @ -50 @ 75°C 75 @ -10	50	
1N283	200	20 @ -10	20	Computer Types
1N191	5	125 @ -50 25 @ -10 @ 55°C	60	
1N278	20	125 @ -50 @ 75°C	50	Hi Temperature Types
T22G	40	20 @ -10	15	
T9G	100	20 @ -50 2 @ -10	60	
T13G	40	2 @ -10	20	Hi Resistance Types
1N67A	5	50 @ -50 5 @ -5	80	

GERMANIUM DIODES

- High Forward Conductance
- Fast Switching Time
- Low Inverse Currents
- Excellent Stability
- Small Size



SEND FOR TE-1300 AND TE-1319

CRystal 9-4500

Transitron



SILICON TRANSISTORS

High Power

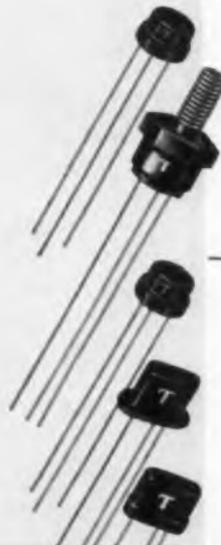
- Ratings to 85 watts
- Operation to 5 amps
- Low R_{CS} , 1.5 ohms typical
- Voltage Ratings to 60V
- High Current Gain
- High Speed Switching



Type	Maximum Power Dissipation at 25°C case (watts)	Minimum D.C. Common Emitter Current Gain	Typical Collector Saturation Resistance (ohms)	Maximum Collector Voltage V _c (volts)
ST400	85	15 @ 2 amps	1.5 @ 2 amps	60
ST401	85	20 @ 2 amps	1.5 @ 2 amps	45
ST402	50	15 @ 2 amps	3.5 @ 2 amps	60
ST403	50	15 @ 2 amps	2.5 @ 2 amps	45

Medium Power

- Operation to 500 ma
- Ratings to 5 watts
- Low R_{CS} , 6 ohms typical
- High Speed Core Driving
- Heat Sink Mountings available



Type	Maximum Power Dissipation at 100°C case (watts)	Maximum Collector Voltage V _c Max (volts)	Minimum D.C. Common Emitter Current Gain	Typical Collector Saturation Voltage (volts)
2N545*	5	60	15 @ 500 ma	3V @ 500 ma
2N547	5	60	20 @ 500 ma	3V @ 500 ma
2N498	2.5	100	12 @ 200 ma	4V @ 200 ma
2N497	2.5	60	12 @ 200 ma	4V @ 200 ma
2N551	3	60	20 @ 30 ma	1V @ 50 ma

*Fast Switching Type

Small Signal

- Operation to 175° C
- Low I_{CO} at Rated V_c max.
- High Current Gain
- 3 Package sizes available

SEND FOR TE-1353

Type	Minimum Common Emitter Current Gain, β	Maximum Collector Voltage V _{cc} Peak (Volts)	Typical Cut-off Frequency (MC)	Maximum Collector Cut-off Current at 25°C V _c Max (μ a)
2N543	80	45	15	.5
2N480	40	45	11	.5
2N475	20	45	10	.5
2N336	78	45	13	50
2N334	18	45	11	50
2N118	18	30	4	10
2N119	36	30	4	10
ST904	18	30	4	10
ST905	36	30	4	10

SILICON VOLTAGE REGULATORS

- Excellent Long-Term Stability
- High Current Handling ability
- Operation to 150° C
- Extended Operating Current Range



Type	Voltage Range (volts)	Maximum Dynamic Resistance (ohms)	Maximum Current @ 25°C (ma)	Maximum Current @ 125°C (ma)
SV-5	4.3-5.4	55	50	10
SV-7	6.2-8	8	30	6
SV-15	13.5-18	120	14	3
SV-804	4.3-5.4	55	150	30
SV-806	6.2-8	8	90	18
SV-815	13.5-18	120	40	-8
			(amps)* (ma)*	
SV-904	4.3-5.4	.5	2.0	500
SV-906	6.2-8	.8	1.2	300
SV-924	70-27	8	.4	100

*Case temperature ratings

SILICON VOLTAGE REFERENCES

- Excellent Long Term Stability
- Controlled Temperature Coefficients
- Wide Temperature Range
- Small Size

SEND FOR TE-1352

Type	Voltage Range (volts)	Temp. Coeff. (%°C)	Dynamic Resistance (ohms)
1N429	5.9-6.5	.01	20
SV3171	6.7-7.4	.01	10
SV3175	8.0-8.8	.002	15
SV3207	16.0-17.6	.001	30

TYPE	CASE	CLASS	Ge.	Si.	Audio	B-Amp.	Pwr.	i-f-f.	Sw.	Gen.	TYPICAL OPERATION						MAXIMUM RATINGS					
											V _c	I _{CO} μa	I _{EO} μa	PG db	α or β	T °C	f _a mc	V _{CE} v	V _{CB} v	I _C ma	P _C mw	T _J °C	K °C/mw

PYE INDUSTRIAL ELECTRONICS LTD., Exning Road, Newmarket, England

V10 15A											4.5	10	5	38	20	.6	6	10	30	100	75	.5
V10 30A											4.5	10	5	38	40	.7	6	10	30	100	75	.5
V10 50D	pn-p	x	x	x							4.5	10	5	38	75	1.2	6	10	30	100	75	.5
V6 R2	pn-p	x									4.5	1	.5	25	25	3	4.5	6	12	25	75	2
V6 R4	pn-p	x									4.5	1	.5	50	50	5.5	4.5	6	12	25	75	2
V6 R8	pn-p	x									4.5	1	.5	80	80	10	4.5	6	12	25	75	2
V15 10P	pn-p	x									6	30	15	37	18	.07	10	15	3a	10w	75	.0028
V15 20P	pn-p	x									6	30	15	37	24	.1	10	15	3a	10w	75	.0028
V15 30P	pn-p	x									6	30	15	37	38	.125	10	15	3a	10w	75	.0028
V30 10P	pn-p	x									12	30	15	37	18	.07	20	30	3a	10w	75	.0028
V30 20P	pn-p	x									12	30	15	37	24	.1	20	30	3a	10w	75	.0028
V30 30P	pn-p	x									12	30	15	37	38	.125	20	30	3a	10w	75	.0028

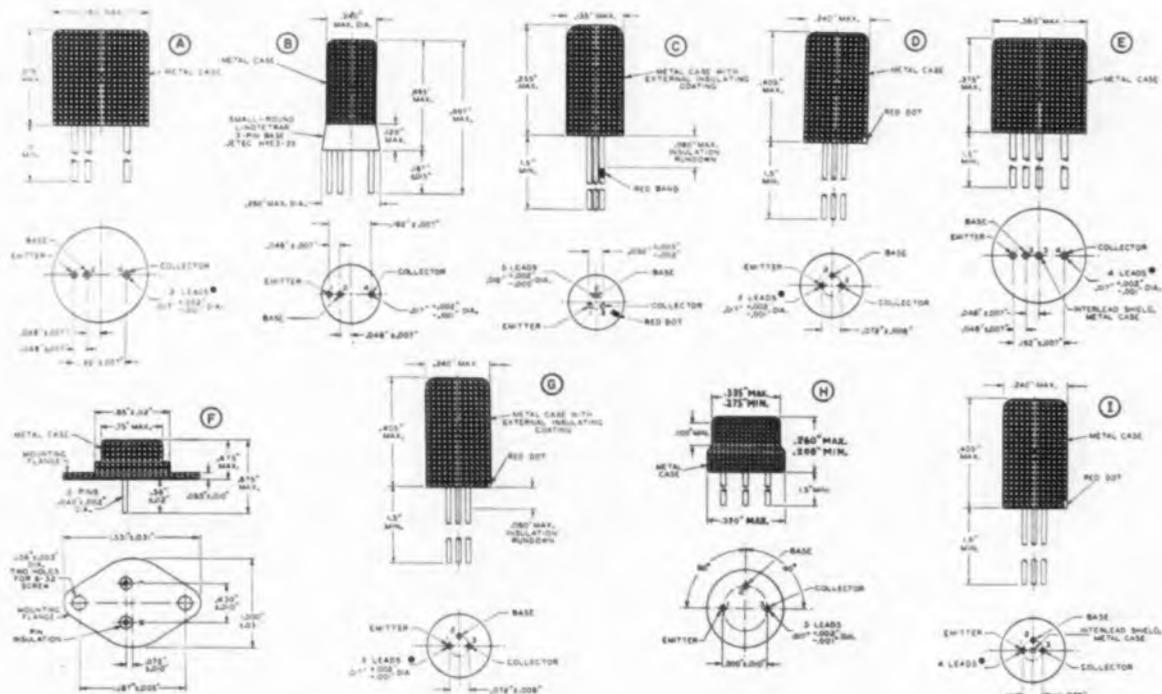
1. At ambient temperature of 25°C mounted on 50 sq. ins. 16SWG aluminum.

RADIO CORPORATION OF AMERICA, Semiconductor Division, Somerville, N.J.

2N109	B	pn-p	x								-6	-10	41	44	25	.7	-30	-50	35	70	.4	
2N105	C	pn-p	x								-4	-5	42	55	25	.75	-25	-15	35	50		
2N109	I	pn-p	x								-9	-10	33	75	25		-25	-70	150	71		
2N139	B	pn-p	x								-9	-6	37.8	48	25	6.7	-16	-15	80	71		
2N140	B	pn-p	x								-9	-6	32	75	25	10	-16	-15	80	71		
2N175	B	pn-p	x								-4	-12	43	65	25	.85	-10	-2	20	50		
2N206	G	pn-p	x								-5	-10	46	47	25	.78	-30	-50	75		.3	
2N215	D	pn-p	x								-6	-10	41	44	25	.7	-30	-50	35	70	.4	
2N217	D	pn-p	x								-6	-10	33	75	25		-25	-70	150	71		
2N218	D	pn-p	x								-9	-6	37.8	48	25	6.7	-16	-15	80	71		
2N219	D	pn-p	x								-9	-6	32	75	25	10	-16	-15	80	71		
2N220	D	pn-p	x								-4	-12	43	65	25	.85	-10	-2	20	50		
2N247	E	pn-p	x								-9	-16	45	60	25	30	-35	-10	35	71		
2N246	D	pn-p	x								-9	-15	-5	40	25	12	-24	-100	120	71		
2N270	A	pn-p	x								-12	-10	39	70	25		-25	-150	250	71		
2N274	I	pn-p	x								-9	-16	45	60	25	30	-35	-10	35	71		
2N301	F	pn-p	x								-14.4	-220	30	70	25	55	-40	-2	12w	85		
2N301A	F	pn-p	x								Like 2N301 but has a peak collector-to-base volt. of -60volts											
2N356	H	pn-p	x								.25	5	5	30	25	3	18	20	500	100	75	.5
2N357	H	pn-p	x								.25	5	5	30	25	6	15	20	500	100	75	.5
2N358	H	pn-p	x								.25	5	5	30	25	9	12	20	500	100	75	.5
2N370	E	pn-p	x								-12	-20	60	25	30		-20	-10	80	71		
2N371	E	pn-p	x								-12	-20	97.5	25	30		-20	-10	80	71		
2N372	E	pn-p	x								-12	-20	60	25	30		-20	-10	80	71		
2N384	I	pn-p	x								-12	-12	30	60	25	100	-30	-10	120	71		
2N398	H	pn-p	x								-0.35	-14	60	25			-105	-105	-100	50	55	
2N404	H	pn-p	x								-0.15	-5	40	25	12		-24	-25	-100	120	71	
2N405	R	pn-p	x								-6	-10	43	35	25		-12	70	150	71		
2N406	D	pn-p	x								-6	-10	43	35	25		-12	70	150	71		
2N407	B	pn-p	x								-9	-10	33	65	25		-20	70	150	71		
2N408	D	pn-p	x								-9	-10	33	65	25		-20	70	150	71		
2N409	D	pn-p	x								-9	-6	37.8	48	25	6.7	-12	-15	80	71		
2N410	D	pn-p	x								-9	-6	37.8	48	25	6.7	-12	-15	80	71		
2N411	R	pn-p	x								-9	-6	32	75	25	10	-12	-15	80	71		

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MOTOROLA TRANSISTORS

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2N669

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2N554 Low cost, dependable general purpose audio transistors for jobbers, amateurs and hobbyists.
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GERMANIUM PNP HIGH-VOLTAGE TRANSISTORS

2N375 80 Volts — 3 Amps. High reliability. For switching, regulation and power supply applications. Tested to rigorous military and industrial specifications.
2N618



GERMANIUM PNP HIGH VOLTAGE—HIGH CURRENT

2N627 40 to 100 Volts — 10 Amps. For switching, regulation and power supply applications. Ringed emitter, solder terminals, welded hermetic seal.
2N628
2N629
2N630

GERMANIUM PNP SWITCHING TRANSISTORS

2N425 TO-9 package. Welded hermetic seal. Most completely specified PNP transistor for industrial and military medium-speed computer and switching applications.
2N426
2N427
2N428

GERMANIUM PNP GENERAL PURPOSE

2N464 Designed for general purpose applications in audio frequency range. TO-9 package. Welded hermetic seal.
2N465
2N466
2N467



MOTOROLA RECTIFIERS

SILICON AXIAL LEAD 1 AMP.

1N1569 Diffused junction. Hermetically sealed. Designed for reliable military and industrial usage. 100 to 400 Volts. 1 amp @ 25°C.
1N1570
1N1571
1N1572



SILICON STUD MOUNTED 3.5 AMP

1N1575 Diffused junction. Hermetically sealed. Peak inverse ratings 100 to 400 Volts. 3.5 amps @ 25°C. Designed for reliable military, industrial applications.
1N1576
1N1577
1N1578



SILICON SINGLE ENDED .5 AMP

1N1563
1N1564
1N1565

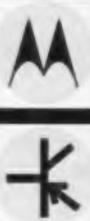
1N1566
1N1567
1N1568

Designed for use in both printed circuit and chassis construction. High reliability. Long life. 100 to 600 Volts. .5 amps @ 75°C. Welded hermetic seal.



EXCITING NEW TYPES TO BE ANNOUNCED SOON
Motorola's development team, which produced the "industry standard" power transistor design, has many exciting new semiconductors ready for release soon.

FOR COMPLETE TECHNICAL INFORMATION
on transistors and rectifiers listed above—write, wire or phone, Motorola, Inc., 5005 East McDowell Road, Phoenix, Arizona. BRidge 5-4411. Teletype PX 80.



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Newark Electric Co.

BOSTON
Cramer Electronics, Inc.

LOS ANGELES
Kierulff Electronics, Inc.

TYPE	CASE	CLASS	Cr.	St.	Audio	B-Amp.	Par.	i-f-rf	St.	Gen.	TYPICAL OPERATION						MAXIMUM RATINGS													
											V _C v	I _{CO} μa	I _{FO} μa	PG db	α or β	T °C	f _a mc	V _{CE} v	V _{CB} v	I _C ma	P _C mw	T _J °C	K °C/mw							
RADIO CORPORATION OF AMERICA																														
2N412	D	ppp	x						x			-9	-6		32	75	25	10		-12	-15		80	71						
2N544	E	ppp	x									-12	-8	-12	47.3	60	25	30		18	-10		80	71						
2N578	H	ppp	x									-0.3	-5	-5		15	25	5		-14	-20	-400	120	71						
2N579	H	ppp	x						x			-0.3	-5	-5		30	25	8		-14	-20	-400	120	71						
2N580	H	ppp	x						x			-0.3	-5	-5		45	25	15		-14	-20	-400	120	71						
2N581	H	ppp	x						x			-0.3	-6	-6		30	25	8		-15	-18	-100	120	71						
2N582	H	ppp	x						x			-0.2	-5	-5		60	25	18		-14	-25	-100	120	71						
2N583	D	ppp	x						x			-0.3	-6	-6		30	25	8		-15	-18	-100	80	71						
2N584	D	ppp	x						x			-0.2	-5	-5		60	25	18		-14	-25	-100	120	71						
2N585	H	ppp	x						x			0.2	6	5		40	25	5		24	25	200	120	71						

1. Supply vol tage. 2. Minimum. 3. Large-signal DC current Transfer Ratio. 4. Two Transistors class B Push-Pull. 5. Common base forward value.

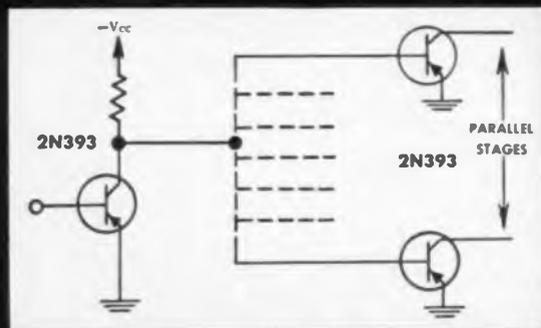
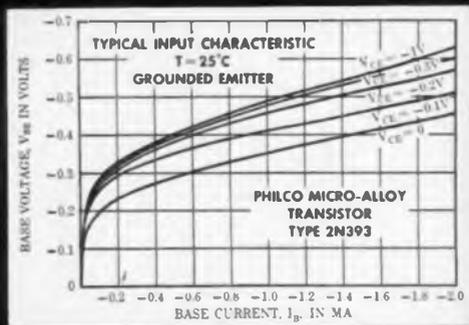
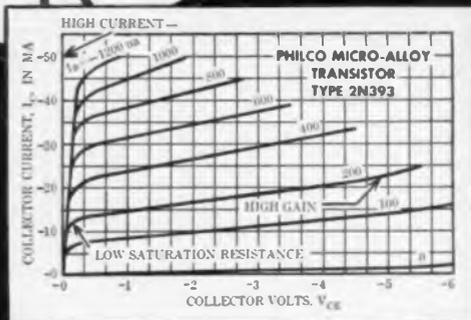
RAYTHEON MANUFACTURING CO., 55 Chapel St., Newton 58, Mass.

2N63	ppp	x	x									6	6		39	22	25	.6	22	10	120	85	.50		
2N64	ppp	x	x									6	6		41	45	25	.8	15	10	120	85	.50		
2N65	ppp	x	x									6	6		42	90	25	1.2	12	10	120	85	.50		
2N106	ppp	x	x									1.5	12		36	25	25	.8	6	10	120	85	.50		
2N130A	D	ppp	x									6	6		40	22	25	.7	40	100	100	85	.59		
2N131A	D	ppp	x									6	6		42	45	25	.8	30	100	100	85	.59		
2N132A	D	ppp	x									6	6		44	90	25	1	20	100	100	85	.59		
2N133A	D	ppp	x									6	6		38	50	25	.800	20	100	100	85	.59		
2N327A	A	ppp	x	x								6	6	.005	32	14	25	.2	40	100	380	160	.35		
2N328A	A	ppp	x	x								6	6	.005	34	24	25	.3	40	100	380	160	.35		
2N329A	A	ppp	x	x								6	6	.005	36	50	25	.4	30	100	380	160	.35		
2N330A	A	ppp	x	x								6	6	.005	34	30	25	.25	30	100	380	160	.35		
2N362	C	ppp	x	x								6	6	10	10	100	25	.25	20	25	10	150	160	.4	
2N363	C	ppp	x	x								6	6	10	10	50	25	.25	20	25	10	150	160	.4	
2N404	C	ppp	x	x								6	6	2	2.0	50	25	.4	25	100	150	85	.40		
2N413	C	ppp	x	x								6	6	2	2.0	25	25	2.5	18	30	200	150	85	.4	
2N414	C	ppp	x	x								6	6	2	2.0	40	25	7	15	30	200	150	85	.4	
2N416	C	ppp	x	x								6	6	2	2.0	60	25	10	12	30	200	150	85	.4	
2N417	C	ppp	x	x								6	6	2	2.0	80	25	20	10	30	200	150	85	.4	
2N422	C	ppp	x	x								6	6	2	2.0	50	25	.8	20	35	100	150	85	.40	
2N425	C	ppp	x	x								6	6	2	1.5	30	25	4	20	30	400	150	85	.4	
2N426	C	ppp	x	x								6	6	2	1.5	40	25	6	18	30	400	150	85	.40	
2N427	C	ppp	x	x								6	6	2	1.5	55	25	11	15	30	400	150	85	.40	
2N428	C	ppp	x	x								6	6	2	1.5	80	25	17	12	30	400	150	85	.40	
2N464	C	ppp	x	x								6	6	6	40	22	25	.7	40	45	100	150	85	.40	
2N465	C	ppp	x	x								6	6	6	42	45	25	.8	30	45	100	150	85	.40	
2N466	C	ppp	x	x								6	6	6	44	90	25	1	20	35	100	150	85	.40	
2N467	C	ppp	x	x								6	6	6	45	180	25	1.2	15	35	100	150	85	.40	
2N481	C	ppp	x	x								6	6	2	5	25	25	4	12	30	200	150	85	.40	
2N482	C	ppp	x	x								6	6	2	5	25	25	3	12	30	200	150	85	.40	
2N483	C	ppp	x	x								6	6	2	5	40	25	5	12	30	200	150	85	.4	
2N484	C	ppp	x	x								6	6	2	5	60	25	2	10	30	200	150	85	.4	
2N485	C	ppp	x	x								6	6	2	5	40	25	5	12	30	200	150	85	.4	
2N486	C	ppp	x	x								6	6	2	5	60	25	9	10	30	200	150	85	.4	
2N619	A	ppp	x	x								6	6	0.005	32	14	25	.2	40	100	380	+160	.35		
2N620	A	ppp	x	x								6	6	0.005	34	24	25	.35	30	100	380	+160	.35		
2N621	A	ppp	x	x								6	6	0.005	36	50	25	.5	20	100	380	+160	.35		
2N622	A	ppp	x	x								6	6	0.005	34	30	25	.5	20	100	380	+160	.35		
2N631	ppp	x	x									6	6	10	33	150	25	.9	9	12	50	150	+160	.4	
2N632	ppp	x	x									6	6	10	30	100	25	.9	12	15	100	150	+160	.4	
2N634	ppp	x	x									6	6	10	27	70	25	.9	22	28	100	150	+160	.4	
CK13	B	ppp	x	x								6	6	2	2	30	25	2.5	18	30	200	80	+160	.75	
CK14	B	ppp	x	x								6	6	2	2	60	25	7	15	30	200	80	+160	.75	
CK16	B	ppp	x	x								6	6	2	2	80	25	10	12	30	200	80	+160	.75	
CK17	B	ppp	x	x								6	6	2	2	140	25	20	10	30	200	80	+160	.75	
CK22	B	ppp	x	x								6	6	2	38	90	25	.8	20	35	100	80	+160	.75	
CK25	B	ppp	x	x								.25	2	1.5	30	30	25	4	20	30	400	80	+160	.75	
CK26	B	ppp	x	x								.25	2	1.5	40	40	25	6	18	30	400	80	+160	.75	
CK27	B	ppp	x	x								.25	2	1.5	55	55	25	11	15	30	400	80	+160	.75	
CK28	B	ppp	x	x								.25	2	1.5	80	80	25	17	12	30	400	80	+160	.75	
CK61	H	ppp	x	x								6	6	6	40	22	25	.7	40	45	100	80	+160	.75	
CK65	H	ppp	x	x								6	6	6	42	45	25	.8	30	45	100	80	+160	.75	
CK66	H	ppp	x	x								6	6	6	44	90	25	1	20	35	100	80	+160	.75	
CK67	H																								

PHILCO

MICRO ALLOY TRANSISTOR 2N393

... Most easily driven, high-speed
switching transistor ...
for modern computer circuitry!



- Exceptionally Good Life Characteristics, Reliability and Stability
- Low Hole Storage
- Low Saturation
- High Beta at High Currents

Philco's new 2N393 transistor is exceptionally well suited to the special branching requirements of high speed computer circuitry. Wherever multiple circuits must be driven from a single unit, the new 2N393 significantly outperforms ordinary driven-stage transistors.

The 2N393 combines high gain with excellent high-frequency response at frequencies up to 50 megacycles. Beta linearity is extremely good at currents as high as 50 milliamperes. The new 2N393 micro alloy transistor provides high frequency switching plus low saturation resistance.

This new transistor design is particularly well adapted to direct-coupled logic circuitry. Polarities of the emitter and collector voltages are similar to PNP junction-type transistors.

Make Philco your prime source for complete transistor application information . . .

The 2N393 is also excellent for use in video amplifiers up to one megacycle. For complete specifications and prices on the 2N393, write Dept. E165B.

PHILCO CORPORATION
LANSDALE TUBE COMPANY DIVISION
LANSDALE, PENNSYLVANIA

Circle 133 on Inquiry Card, page 175



TYPE	CASE	CLADO	Ge.	Si.	Audio	B-Amp.	Par.	i-f-rf	Sw.	Gen.	TYPICAL OPERATION						MAXIMUM RATINGS				
											V _c	I _{CO}	I _{EO}	PG	α or β	T	f _a	V _{CE}	V _{CB}	I _C	P _C	T_{C}	K

SIEMENS EDISON SWAN LIMITED, Cosmos Works, Brimsdown, Enfield, Middlesex, England

XA101	pn-p	x									5	.6	35		18	20	60	55	.5	
XA102	pn-p	x									5	.6	60		8	20	60	55	.5	
XB102	pn-p	x									5	2.5	30		1	16	35	90	55	.33
XB103	pn-p	x									5	2.5	66		1	16	35	90	55	.33
XC101	pn-p	x									6	3	66		.7	16	35	150	70	.3

SPERRY SEMICONDUCTOR DIVISION of Sperry Rand Corp., Great Neck, L.I., N.Y.

S-500	A	pn-p	x	x							6	.001	.001	18	25	15	25	25	50	150	140	.77
S-501	A	pn-p	x	x							6	.001	.001	30	25	18	10	10	50	150	140	.77
S-520	A	pn-p	x	x							6	.001	.001	14	25	5	30	30	100	100	140	.77

SPRAGUE ELECTRIC CO., North Adams, Mass.

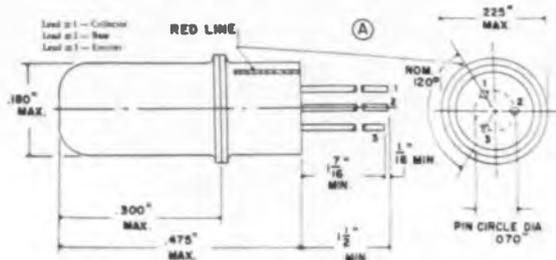
2N240	A	sbt	x								3	.7	.5	<16	30		6	15	30	85	.75	
2N344	A	sbt	x								3	.7	.5	11-33	30-50		5	5	40	55	.75	
2N345	A	sbt	x								3	.8	.6	25-110	30-50		5	5	40	55	.75	
2N346	A	sbt	x								3			14	60-75		5	5	40	55	.75	
2N393	A	mat	x								3	1.5ma	2.5ma	93	60		6	6	50	50	85	.75

STANDARD TELEPHONES AND CABLES LTD., Footscray, Kent, England.

TP1	ptc	x															2	50	30			
TP2	ptc	x															3	50	30			
TJ1	pn-p	x															20			200	60	
TJ2	pn-p	x															40			200	60	
TJ3	pn-p	x															60			200	60	
TS1	pn-p	x															20			25	50	60
TS2	pn-p	x															40			25	50	60
TS3	pn-p	x															60			25	50	60

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SPRAGUE



RUSSIAN DOMESTIC TRANSISTORS

Type	Case	Typical		Parameters										Limits		
		I _e	V _e	R _{i1}	R _{i2}	α_i	$\mu_b \Omega$	$\mu_k \Omega$	K _p	f _{1, min}	C _k	I _k	V _k	P _k		

RUSSIAN domestic transistors, Germanium

P1A	jct	1	10	600	30	0.9	0.93	30	200	300	3000	35	160	30	5	20	0.050
P1B	jct	1	10	600	30	0.93	0.97	100	250	500	1200	37	100	30	5	20	0.050
P1V	jct	1	10	600	30	0.93	0.97	100	250	1200	4500	41	100	30	5	20	0.050
P1G	jct	1	10	600	30	0.96	0.99	100	400	700	4500	40	100	30	5	20	0.050
P1D	jct	1	10	600	30	0.94	0.99	100	350	1200	4500	38	100	30	5	20	0.050
P1E	jct	1	10	600	30	0.94	0.99	150	350	300	4500	40	500	30	5	20	0.050
P1Z	jct	1	10	600	30	0.96	0.99	300	4500	300	4500	40	1000	30	5	20	0.050
P2A	jct	5	50	100	10	0.9	0.95				17	10		10	100	0.25	
P2B	jct	10	25	25	4	0.9	0.95				17	10		15	50	0.25	
P3A	jct	130	25	5	0.2	0.9	0.99				22	10		250	50	3.5	
P3B	jct	130	25	5	0.2	0.9	0.99				22	10		250	50	3.5	
P3V	jct	130	25	5	0.2						27	10		450	50	3.5	

Type	Case	Typical		Parameters with grounded base						Limits			
		I _e	V _e	R _{i1}	R _{i2}	R _{i22}	α_i	*K _p	*K _v	I _e	I _k	V _k	P _k

Notes: * means average values.

In the table: I_e-current-emitter, I_k current collector, V_e-voltage emitter, V_k-voltage collector, R_{i1}-resistance input signal generator, R_{i2}-load resistance, d-coefficient amplification current when base grounded R_k=0, μ_b -resistance base, μ_k -resistance-collector, R_{i1}, R_{i2}, R_{i22} interior parameters of a point transistor, K_p-power amplification, K_v voltage ampl. C_k-collector capacity, P_k power in collector circuit.

surface barrier transistors from SPRAGUE

2N344/SB101
for Medium Gain
Amplifiers

	Min.	Typ.	Max.
h_{fe}	11	23	83
f_{max}	30	45	—



2N345/SB102
for High Gain
Amplifiers

	Min.	Typ.	Max.
h_{fe}	25	40	110
f_{max}	30	45	—



2N346/SB103
for High Frequency
Oscillators

	Min.	Typ.	Max.
h_{fe}	10	—	—
f_{max}	60	90	—



2N240/SB5122
for Computer
Switching

	Min.	Max.
h_{fe}	16	—
f_{max}	30	—
T_s	—	80

IN VOLUME PRODUCTION

Now!

For general high frequency applications, and for high speed computer switching circuits, design around Sprague surface barrier transistors. They are available now in production quantities from a completely new, scrupulously clean plant, built from the ground up especially to make high quality semi-conductor products.

The four transistor types shown are the most popular. Orders for these units are shipped promptly. What's more, surface barrier transistors are reasonably priced. High quality and excellent electrical characteristics make them an economical solution to many difficult circuit requirements.

Sprague surface barrier transistors are fully licensed under Philco patents. All Sprague and Philco transistors having the same type number are manufactured to the same specifications and are fully interchangeable. You have *two* sources of supply when you use surface barrier transistors!



WRITE FOR COMPLETE ENGINEERING DATA SHEETS ON THE TYPES IN WHICH YOU ARE INTERESTED. ADDRESS REQUEST TO THE TECHNICAL LITERATURE SECTION, SPRAGUE ELECTRIC CO., 233 MARSHALL ST., NORTH ADAMS, MASS.

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HIGH TEMPERATURE MAGNET WIRE • PRINTED CIRCUITS



TYPE	CASE	CLASS	Ge.	Si.	Audio	B-Amp.	Pwr.	if-rf	Sw.	Gen.	TYPICAL OPERATION						MAXIMUM RATINGS					
											V _C v	I _{CO} μa	I _{EO} μa	PG db	α or β	T °C	f _α mc	V _{CE} v	V _{CB} v	I _C ma	P _C mw	T _J °C	K °C/W

SYLVANIA ELECTRIC PRODUCTS INC., Semiconductor Division, 100 Sylvan Road, Woburn, Mass.

2N34	A	npn	x							x	-6	5	35	975	25	.12	-25	-40	100	50 ³	75	1
2N35	A	npn	x							x	-6	5	35	975	25	.12	25	40	100	50 ³	75	1
2N68	B	npn	x								-12	100	23	40 ⁴	25	.4	-30	1.5a	2w ³	75	12.5°C/W	
2N94	A	npn	x			x					6	5	25	.97	25	4	20	20	50	50mm ³	75	1
2N94A	A	npn	x			x	x				6	5	25	.98	25	7	20	20	50	50mm ³	75	1
2N95	B	npn	x								12	100	23	40 ⁴	25	.4	30	1.5a	2w ³	75	12.5°C/W	
2N101	A	npn	x								-12	100	23	40 ⁴	25	.4	-30	1.5a	1w ³	75	25°C/W	
2N102	C	npn	x								12	100	23	40 ⁴	25	.4	30	1.5a	1w ³	75	25°C/W	
2N141	B	npn	x								-24	150	26	40 ⁴	25	.4	-30	60	.8a	1.5w ³	75	25°C/W
2N142	B	npn	x								24	150	26	40 ⁴	25	.4	30	60	.8a	1.5w ³	75	25°C/W
2N143	C	npn	x								-24	150	26	40 ⁴	25	.4	-30	60	.8a	1.5w ³	75	25°C/W
2N144	C	npn	x								24	150	26	40 ⁴	25	.4	30	60	.8a	1.5w ³	75	25°C/W
2N155	F	npn	x								-14	200	33	40 ⁴	25	.145	-30	3.0a	1.5w ³	85	7.5°C/W	
2N176	F	npn	x								-12	200	32	60 ⁶	25	.011	-30	3.0a	1.0w ³	90	10°C/W	
2N193	A	npn	x								6	5	7	7.5 ⁹	25	.22	15	50	50 ³	75	1	
2N194	A	npn	x								6	5	8	8 ⁹	25	.22	25	50	50 ³	75	1	
2N211	A	npn	x								6	7	10	10 ⁹	25	.22	10	50	50 ³	75	1	
2N212	A	npn	x								7.5	8	10	10 ⁹	25	.4	10	50	50 ³	75	1	
2N213	A	npn	x								12	10	29	150 ¹⁰	25	.25	100	50 ³	75	1		
2N214	A	npn	x								12	10	29	70 ⁴	25	.6 ²	25	125 ³	75	1		
2N216	A	npn	x								9	10	26	7.5 ⁹	25	.22	15	50 ³	75	1		
2N228	A	npn	x								6	15	26	70	25	.6 ²	25	50 ³	75	1		
2N229	A	npn	x								6	15	26	.96	25	.55 ²	12	10	40	50 ³	75	1
2N233	A	npn	x								6	10	27	4.5 ⁹	25	.7	10	10	50 ³	75	1	
2N233A	A	npn	x								6	10	27	4.5 ⁹	25	.7	10	10	50 ³	75	1	
2N235A	F	npn	x								14	200	35	60 ⁶	25	7kc ⁷	-40	3a	5w ³	90	2°C/W	
2N242	F	npn	x								14	200	35	60 ⁶	25	5kc ⁷	-45	2a	25w ³	100	3°C/W	
2N247	G	npn	x								9	10	27	60 ⁸	25	10 ⁷	-35	10	35 ³	85	1.7	
2N250	F	npn	x								14	200	33	60	25	6kc ⁷	-30	2a	12w ³	80	2.2°C/W	
2N257	F	npn	x								14	200	30	60	25	7kc ⁷	-40	2a	25w ³	85	2.5°C/W	
2N296	F	npn	x								28	150	1	20 ⁸	25	4	60	2a	25w ³	100	3°C/W	
2N301	F	npn	x								14	220	1	35	25	55	40	2a	12w	85	1	
2N301A	F	npn	x								14	220	1	35	25	55	60	2a	12w	85	1	
2N306	A	npn	x								7.5	15	15	204	97	25	15	20	2a	50 ³	75	1
2N307	F	npn	x								14	250	28	40 ⁴	25	.15 ²	35	35	1a	15w ³	75	1
2N325	F	npn	x								12	200	28	40 ⁴	25	.15 ²	35	35	2a	12w ³	85	5.5°C/W
2N326	F	npn	x								12	200	28	40 ⁴	25	.15 ²	35	35	2a	7w ³	85	9°C/W
2N350	F	npn	x								12	300	2	30	40 ⁴	75	5kc	40	3a	10w	90	1
2N351	F	npn	x								12	300	2	32	60 ⁴	75	5kc	40	3a	10w	90	1
2N356	E	npn	x								6	20	20	30	30	3	20	100	100 ²	85	1	
2N357	E	npn	x								6	20	20	30	30	6	20	200	100 ²	85	1	
2N358	E	npn	x								6	20	20	30	30	6	20	300	100 ²	85	1	
2N370	G	npn	x								8	10	100	14 ¹¹	11	100	20	10	80	85	.75	
2N371	G	npn	x								8	10	100	15 ¹¹	11	90	20	10	80	85	.75	
2N372	G	npn	x								8	10	100	14 ¹¹	11	90	20	10	80	85	.75	
2N377	D	npn	x								20	6	15	30 ⁴	25	4 ²	20	25	200	150 ¹	100	.5
2N385	D	npn	x								20	6	15	60 ⁴	25	4 ²	25	25	200	150 ¹	100	.5
2N388	D	npn	x								20	6	15	80 ⁴	25	8 ²	20	25	200	150 ¹	100	.5
2N515	A	npn	x								6	6	25	7.5 ⁹	25	.22	18	10	50	75	1	
2N516	A	npn	x								6	6	27	7.5 ⁹	25	.22	18	10	50	75	1	
2N517	A	npn	x								6	6	29	7.5 ⁹	25	.22	18	10	50	75	1	
2N536	E	npn	x								10	10	10	15 ²	20	200	20	200	100	85	.6	
2N537	E	npn	x								10	10	10	15 ²	20	200	20	200	100	85	.6	
2N538	E	npn	x								10	10	10	20 ²	20	15	20	200	100	85	.6	
2N576	D	npn	x								20	10	5	20 ²	5	20	20	400	200	100	.75	
2N587	D	npn	x								20	25	25	20 ²	5	20	40	200	150	85	.4	

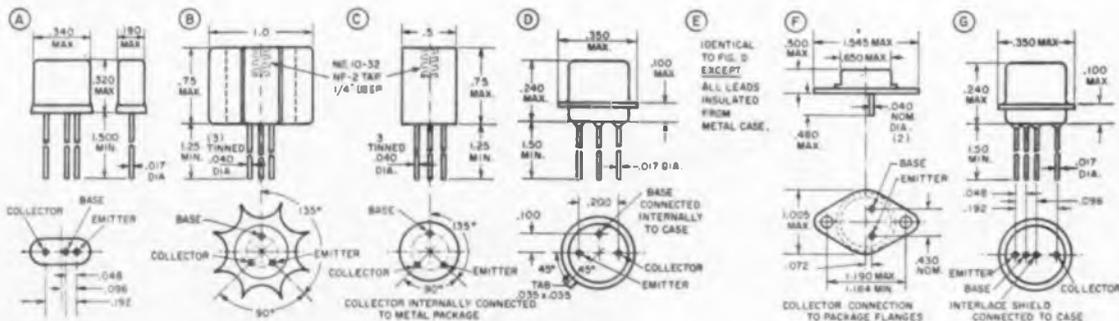
1. At rated V_{CE}. 2. Minimum. 3. In free air at 25°C. 4. DC current gain. 5. With heat sink. 6. Above 80°C. 7. Beta cutoff minimum. 8. Small signal current gain. 9. Beta @ 455kc. 10. Beta at 270cps. 11. At 20kc.

TEXAS INSTRUMENTS INCORPORATED, P.O. Box 312, Dallas, Texas

2N117	G										30			9-20 ³	1 ⁴		25	150 ¹	150	.12mm ² /C		
US2N117	G	npn	x								30						25	150 ¹	150	.12mm ² /C		
2N118	G	npn	x								30			18-40 ³	2 ⁴		25	150 ¹	150	.12mm ² /C		
US2N118	G	npn	x								30		35	18-90 ³	8 ⁶		25	150 ¹	175	.12mm ² /C		
2N119	G	npn	x								30			36-90 ³	2 ⁴		25	150 ¹	150	.12mm ² /C		
US2N119	G	npn	x								30	2	100	42.5	76-333		25	150	150	1.2mm ² /C		
2N120	G	npn	x								9	.2		30-33	10	2.5	20	20	5	65 ¹	75	.7
2N145	A	npn	x								9	.2		33-36	15	3	20	20	5	65 ¹	75	.7
2N146	A	npn	x								9	.2		33-36	15	3	20	20	5	65 ¹	75	.7

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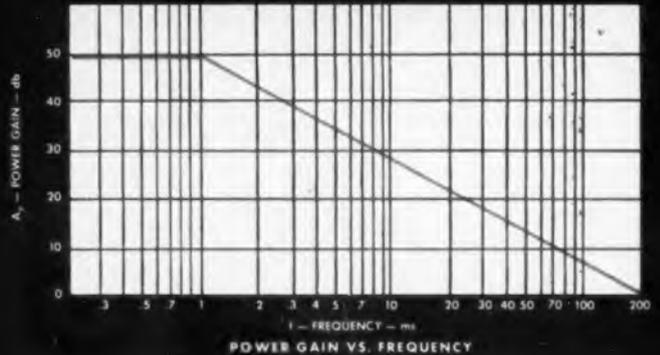
SYLVANIA



NEW P-N-P germanium 90 MC alpha cutoff T/I diffused base transistors



In a JETEC TO-5 Package!



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Check the specifications and application notes below — see how the TI 2N623 can help you with your next high gain/high frequency or ultra high speed switching application.

Write today to your nearest T/I sales office for Bulletin DL-5 904

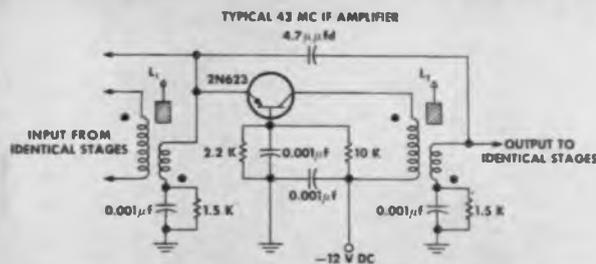
maximum ratings at 25°C

collector to base	-30V
collector to emitter	-15V
emitter to base	-1V
total dissipation	40mW

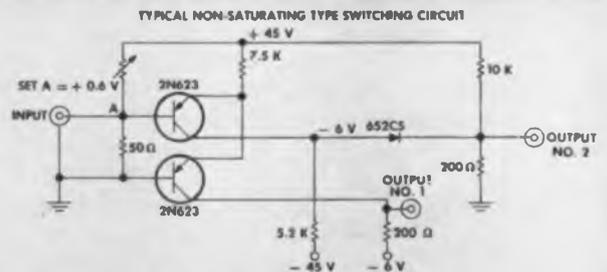
typical design characteristics at 25°C

(conditions)			
collector reverse current	$I_c = 0$	$V_{cb} = -20V$	2 μ A
emitter reverse current	$I_e = 0$	$V_{eb} = -0.5V$	0.5 μ A
forward current transfer ratio	$I_c = -2mA$	$V_{cb} = -6V$	35
current transfer ratio cutoff frequency	$I_c = -2mA$	$V_{cb} = -6V$	90 mc
max. frequency of oscillation	$I_c = -2mA$	$V_{cb} = -6V$	200 mc
frequency where $h_{fe} = 1$	$I_c = -2mA$	$V_{cb} = -6V$	60 mc

APPLICATION NOTES



TYPICAL VALUES — AVAILABLE POWER OUTPUT 30 mW (PEAK)
NOISE FIGURE 6 db • POWER GAIN 15 db • BAND WIDTH, ONE STAGE 11 mc
APPROX. IMPEDANCE LOOKING INTO PRIMARY 56 Ω • LOAD ON SECONDARY 300 Ω



TYPICAL SWITCHING TIMES OBTAINED IN ABOVE CIRCUIT
 $t_{fall} = 14$ nsec $t_{off} = 14$ nsec
(INCLUDES OSCILLOSCOPE RISE TIME)

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TYPE	CASE	CLASS	G.	Si.	Audio	B-Amp.	Pwr.	i-f-rf	S.	Gen.	TYPICAL OPERATION					MAXIMUM RATINGS							
											V _C	I _{CO}	I _{ED}	PG	α or β	T	f ₂	V _{CE}	V _{CB}	I _C	P _C	T _J	K
											v	μ a	μ a	db		°C	mc	v	v	ma	mw	°C	°C/A

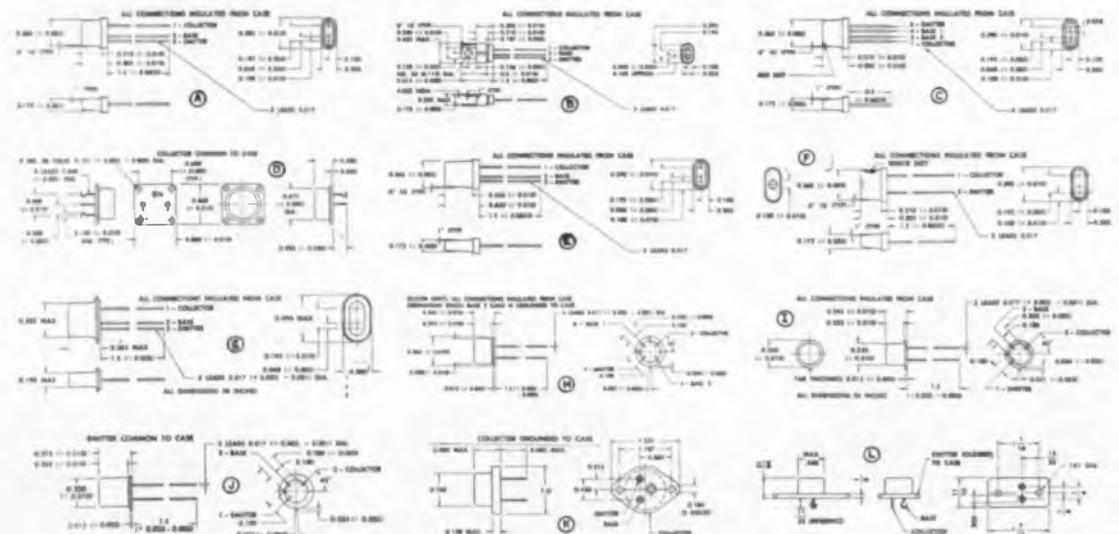
TEXAS INSTRUMENTS INCORPORATED

2N147	A	n-p-a	x					x			9	.2	36-39	15		3.5	20	20	5	65 ¹	75		
2N185	A	n-p-p	x		x	x					-9	-8	40.5	80		.2	20	20	150	150 ¹	50		
2N238	A	n-p-p	x		x						-9	-8	37-42	35		.2	20	20	100	50 ¹	60		
2N243	B	n-p-a						x			60	1							60	750	150		
2N244	A	n-p-a			x						60	10 ²	10-11	28-90 ⁵					60	750	150		.6mw/°C
2N248	A	n-p-p	x					x			12	-10 ²	31-40	20 ⁵		50		25	5	30	85		
2N250	K	n-p-p						x			-12	-3ma	31-40				30	30	3a	25 ¹	85		1.1°C/W
2N251	K	n-p-p						x			-24	-5ma	31-40				16	16	3a	25 ¹	85		1.1°C/W
2N252	A	n-p-p						x			-9	-5	34	30		30	60	60	5	65 ¹	75		
2N253	A	n-p-a						x			9	.2	28-32	10		2.5	12	12	5	65 ¹	75		.7
2N254	A	n-p-a						x			9	.2	32-36	15		3	20	20	5	65 ¹	75		.7
2N291	E	n-p-p			x	x					-12	-10	33	90		.2	25	25	200	300 ¹	50		.125
2N308	A	n-p-p						x			-9	-5	39-42	30		30	20	20	-5	30 ¹	55		
2N309	A	n-p-p						x			-9	-5	41-44	30		30	20	20	-5	30 ¹	55		
2N310	A	n-p-p						x			-9	-5	37	30		30	30	30	-5	30 ¹	55		
2N332	I	n-p-n			x				x		45	2.2	35	9-20 ³		1 ⁴	45	25	150 ¹	175		.12mw/°C	
2N333	I	n-p-n			x				x		45	2.2	39	18-40 ³		2 ⁴	45	25	150 ¹	175		.12mw/°C	
2N334	I	n-p-n			x				x		45	2.2	39	18-90 ³		8 ⁴	45	25	150 ¹	175		.12mw/°C	
2N335	I	n-p-n			x				x		45	2.2	42	36-90 ³		2 ⁴	45	25	150 ¹	175		.12mw/°C	
2N336	I	n-p-n			x				x		45	2.2	42.5	76-333 ³			45	25	150 ¹	175		.12mw/°C	
2N337	I	n-p-n			x				x		40.	1.2				20	40	20	125 ¹	150		.1mw/°C	
2N338	I	n-p-n			x				x		40	1.2				10	40	20	125 ¹	150		.1mw/°C	
2N339	J	n-p-n						x			55	1.2					55	60	1	150		.8mw/°C	
2N340	J	n-p-n						x			85	1.2					85	50	1	150		.8mw/°C	
2N341	J	n-p-n						x			125	1.2					125	40	1	150		.8mw/°C	
2N342	J	n-p-n						x			60	1.2					60	60	1	150		.8mw/°C	
2N343	J	n-p-n						x			60	1.2					60	60	1	150		.8mw/°C	
2N364	A	n-p-a			x				x		30	10 ²	28-90 ³			2.5	30	30	150	85			
2N365	A	n-p-a			x				x		30	10 ²	19-49 ³			3	30	50	150	85			
2N366	A	n-p-a			x				x		30	10 ²	49-142 ³			3.5	30	50	150	85			
2N368	A	n-p-a			x				x		30	20 ²	19-49 ³			1	30	50	100	75			
2N369	A	n-p-a			x				x		30	20	49-142 ³			1.3	30	50	100	75			
2N389	D	n-p-n			x				x		60	10ma	20	6-60		.3	60	2a	85w	200			
2N424	D	n-p-n			x				x		80	10ma	20	6-60		.3	80	2a	85w	200			
2N456	K	n-p-p			x				x		40	-2ma	130 ⁵			8kc	40	40	5a	50w	95		1.1°C/W
2N457	K	n-p-p			x				x		60	-2ma	130 ⁵			8kc	60	60	5a	50w	95		1.1°C/W
2N458	K	n-p-p			x				x		.80	-2ma	130 ⁵			8kc	80	80	5a	50w	95		1.1°C/W
2N497	I	n-p-p			x				x		60	15	100	12-36		.1	60	60	4w	200			
2N498	I	n-p-p			x				x		100	15	100	12-36		.2	100	100	4w	200			
2N623	H	n-p-p			x				x		20	-20 ²	10.4, 12			90	15	30	40	85			
3N25	C	n-p-p						x			12	-20 ²	10.4, 12			200	15	2	25	85			
3N32	H	n-p-n			x						30	2.2	20.4					10	125 ¹	150			.1mw/°C
3N33	H	n-p-n			x						30	2.2	184.0					10	125 ¹	150			.1mw/°C
3N34	H	n-p-n			x						30	2.2	164.0					10	125 ¹	150			.1mw/°C
3N35	H	n-p-n			x						30	2.2	20.9					10	125 ¹	150			.1mw/°C
204A	A	n-p-n			x						10 ²		9-49 ³			2.5	60	50	150	85			
80010	F	n-p-n						x			30	10 ²	Phototransistor				20	5	65	75			
903	A	n-p-n			x						30	101.2	30.5	9-20 ³		1 ⁴	25	150 ¹	175		.12mw/°C		
904	A	n-p-n			x						30	101.2	34	18-40 ³		2	25	150 ¹	175		.12mw/°C		
904A	A	n-p-n			x						30	101.2	35	18-90 ³		8	25	150 ¹	175		.12mw/°C		
905	A	n-p-n			x						30	101.2	36.5	36-90 ³		2	25	150 ¹	175		.12mw/°C		
910	A	n-p-n			x						30	101.2	42.5	76-333 ³			25	150 ¹	175		.12mw/°C		
951	B	n-p-a						x			50	51.2		93.4			60	750	150		.6mw/°C		
952	R	n-p-n			x						80	61.2		93.4			50	750	150		.6mw/°C		
953	L	n-p-n			x						120	81.2		93.4			40	750	150		.6mw/°C		
970	I	n-p-n			x						120	101.2		34.5			120	140	8.75 ¹	150		.70mw/°C	

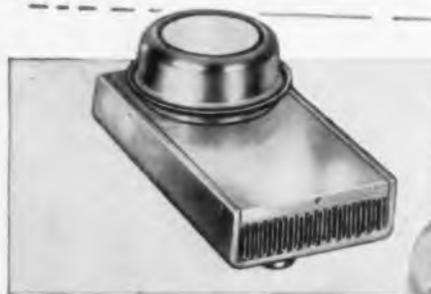
1. 0.25°C. 2. Maximum. 3. h_{FE}. 4. Minimum. 5. h_{FE}. 6. 0.4. 3mc. 7. 0.12. 5mc. 8. 0.30mc. 9. 0.70mc. 10. Phototransistor.

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TEXAS INSTRUMENTS



UAP COLD PLATE controls TRANSISTOR junction temperature!



minimizes transistor derating for thermal conditions . . .

UAP cold plate U-521330, designed for Collins Radio Company, dissipates heat generated by power transistors used in ground and airborne electronic circuits. The heat is transferred across a pressure thermal contact to cooling air. The cold plate controls the transistor junction temperature within operating limits compatible with the installation. Therefore, transistor derating is minimized.

The cooling air, which is forced through the cold plate, can be ducted from an air cycle refrigeration system; a ram air supply; an air manifold within

the electronic compartment or a pressurized equipment package.

The aluminum cold plates are bonded by UAP's dip braze method which produces extremely light-weight assemblies with maximum heat transfer area within the core. Cold plates can be used individually or assembled in manifolded banks.

DESIGN PERFORMANCE CHARACTERISTICS OF U-521330 COLD PLATE

Air flow: 7 lbs. per hr.
Air pressure drop: 0.25" H₂O corrected to .0765 density
Temperature drop in cold plate: 1.5°C per watt dissipated
Weight: Approximately 1 oz.
Performance characteristics can be modified to requirements.

For complete information call the nearest UAP Contractual Engineering Office

CALIFORNIA 1101 Chestnut St., Burbank Calif., VI 9-4236
NEW YORK 50 E. 42nd St., New York 17, N. Y., MU 7-1283
OHIO 1116 Bolander Ave., Dayton, Ohio, BA 4-3841
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TYPE	CASE	CLASS	Ge.	Si.	Audio	B-Amp.	Pwr.	i-f-rf	Sw.	Gen.	TYPICAL OPERATION						MAXIMUM RATINGS							
											V _C	I _{CO}	I _{ZO}	PG	α or β	T _o	f _a	V _{CE}	V _{CB}	I _C	P _C	T _o	K	
											v	μ a	μ a	db		°C	mc	v	v	ma	mW	°C	°C/W	
TRANSITRON ELECTRONIC CORP., 168-182 Albion St., Wakefield, Mass.																								
2N117	A	npn	x	x						x	30	10			9-19	1		30				150	150	
2N118	A	npn	x	x						x	30	10			19-39	2		30				150	150	
2N118A	A	npn	x	x						x	30	10			19-90	8		30				150	150	
2N119	A	npn	x	x						x	30	10			19-90	2		30				150	150	
2N332		npn	x	x						x	30			38min				30				150	175	
2N333		npn	x	x						x	30		36	9-20	100	7	45	45	25	150	175	1		
2N334		npn	x	x						x	30		39	18-41	100	9	45	45	25	150	175	1		
2N335		npn	x	x						x	30		40	18-90	100	11	45	45	25	150	175	1		
2N335		npn	x	x						x	30		40	37-90	100	10	45	45	25	150	175	1		
2N336	B	npn	x	x						x	30	.2	42	78min	100	13	45	45	25	150	175			
2N470	B	npn	x	x						x	6		37	10-25	100	8	15	15		200	175		.75	
2N471	B	npn	x	x						x	20		37	10-25	100	8	30	30		200	175		.75	
2N471A	B	npn	x	x						x	30	.5	.5	10-25		4	30	30		200	175			
2N472	B	npn	x	x						x	30		37	10-25	100	8	45	45		200	175		.75	
2N473	B	npn	x	x						x	6		39	20-50	100	10	15	15		200	175		.75	
2N474	B	npn	x	x						x	20		39	20-50	100	10	30	30		200	175		.75	
2N474A	B	npn	x	x						x	30	.5	.5	20-50		8	30	30		200	175			
2N475	B	npn	x	x						x	30		39	20-50	100	10	45	45		200	175		.75	
2N476	B	npn	x	x						x	6		40	30-60	100	17	15	15		200	175		.75	
2N477	B	npn	x	x						x	20		40	30-60	100	17	30	30		200	175		.75	
2N478	B	npn	x	x						x	6		40	40-100	100	11	15	15		200	175		.75	
2N479	B	npn	x	x						x	20		40	40-100	100	11	30	30		200	175		.75	
2N479A	B	npn	x	x						x	30	.5	.5	40-100		8	30	30		200	175			
2N480	B	npn	x	x						x	30		40	40-100	100	11	45	45		200	175		.75	
2N497	B	npn	x	x						x	30	.2	.1	12-36	100	4	60	60	200	4w	200			
2N541	B	npn	x	x						x	15	.02	.01	41	80-200	100	15	15	15		200	200		
2N542	B	npn	x	x						x	30	.02	.01	41	80-200	15	30	30		200	200			
2N543	B	npn	x	x						x	45	.02	.01	41	80-200	15	45	45		200	200			
2N545	B	npn	x	x						x	60	6	1		25	100	4	60	60	500	5w	200		
2N546	B	npn	x	x						x	30	5	1		25	100	4	30	30	500	5w	200		
2N547	C	npn	x	x						x	60	6	1		20-80	100	4	60	60	500	5w	200		
2N548	C	npn	x	x						x	30	5	1		20-80	100	4	30	30	500	5w	200		
2N549	C	npn	x	x						x	60	1.5	1		20-80	100	4	60	60	200	5w	200		
2N550	C	npn	x	x						x	30	1.5	1		20-80	100	4	30	30	200	5w	200		
2N551	C	npn	x	x						x	60	6	1		20-80	100	3	60	60	50	5w	200		
2N552	C	npn	x	x						x	30	6	1		20-80	100	3	30	30	50	5w	200		
ST903	D	npn	x	x						x	30	.1		30.5	9-20	7	30	30		150	175			
ST904	D	npn	x	x						x	30	.1		34	18-40	9	30	30		150	175			
ST904A	D	npn	x	x						x	30	.1		35	18-90	11	30	30		150	175			
ST905	D	npn	x	x						x	30	.1		36.5	36-90	10	30	30		150	175			
ST910	D	npn	x	x						x	30	.1		42.5	76-333	11	30	30		150	175			

TUNG-SOL ELECTRIC INC., 95 8th Ave., Newark 4, N.J.																								
TYPE	CASE	CLASS	Ge.	Si.	Audio	B-Amp.	Pwr.	i-f-rf	Sw.	Gen.	V _C	I _{CO}	I _{ZO}	PG	α or β	T _o	f _a	V _{CE}	V _{CB}	I _C	P _C	T _o	K	
											v	μ a	μ a	db		°C	mc	v	v	ma	mW	°C	°C/W	
2N242	B	npn	x	x						x	12	150		34	50		8kc	45		2w	12w	85	3°C/W	
2N378	B	npn	x	x						x	14	150		24	35		8kc	40		3w	15w	85	3°C/W	
2N379	B	npn	x	x						x	28	150		23	30		8kc	80		3w	15w	85	3°C/W	
2N380	B	npn	x	x						x	28	150		29	60		8kc	60		3w	15w	85	3°C/W	
2N381	A	npn	x	x						x	12	10	10	31	50		1.2	25	25	200	200	85	.2	
2N382	A	npn	x	x						x	12	10	10	33	75		1.5	25	25	200	200	85	.2	
2N383	A	npn	x	x						x	12	10	10	35	100		1.8	25	25	200	200	85	.2	
2N404	A	npn	x	x						x	12	2	2	2	10	30	12	24	30	100		85	.4	
2N413	A	npn	x	x						x	6	2	2	2	10	30	2.5	18	30	400		85	.4	
2N413A	A	npn	x	x						x	6	2	2	2	16	60	7	15	30	400		85	.4	
2N414	A	npn	x	x						x	6	2	2	2	16	60	7	15	30	400		85	.4	
2N414A	A	npn	x	x						x	6	2	2	2	16	60	7	15	30	400		85	.4	
2N415	A	npn	x	x						x	6	2	2	2	30	80	10	10	30	400		85	.4	
2N415A	A	npn	x	x						x	6	2	2	2	80	80	10	10	30	400		85	.4	
2N416	A	npn	x	x						x	6	2	2	2	20	80	10	12	30	400		85	.4	
2N417	A	npn	x	x						x	6	2	2	2	27	140	20	10	30	400		85	.4	
2N425	A	npn	x	x						x	12	2	2	2	30	30	4	20	30	400		85	.4	
2N426	A	npn	x	x						x	12	2	2	2	40	6	6	18	30	400		85	.4	
2N427	A	npn	x	x						x	12	2	2	2	55	11	15	30	400		85	.4		
2N428	A	npn	x	x						x	12	2	2	2	60	17	12	30	400		85	.4		
2N459	B	npn	x	x						x	28	150		24	40		8kc	105		3w	15w	85	2°C/W	
2N460	A	npn	x	x						x	6	6	6	6	.96		1.2	45	400	200	100		.2	
2N461	A	npn	x	x						x	6	6	6	6	.98		1.2	45	400	200	100		.2	
TS628	A	npn	x	x						x	6	6	6	6	.99		1.2	25	25		150	85		
TS629	A	npn	x	x																				

DELCO'S FAMILY OF HIGH POWER TRANSISTORS



Typical Characteristics at 25°C



	DT100	DT80	2N174A	2N174	2N173	2N443	2N278	2N442	2N277	2N441
Maximum Collector Current	13	13	13	13	13	13	13	13	13	13 amps
Maximum Collector Voltage (Emitter Open)	100	80	80	80	60	60	50	50	40	40 volts
Saturation Resistance (13 amp.)	.02	.02	.02	.02	.02	.02	.02	.02	.02	.02 ohms
Max. Square Wave Power Output at 400 ~ P-P*	400	310	310	310	225	225	180	180	135	135 watts
Max. Sine Wave Power Output at 400 ~ P-P*	180	140	140	140	100	100	80	80	60	60 watts
Power Dissipation (Stud Temperature 25°C)	70	70	70	70	70	55	55	55	55	55 watts
Thermal Gradient from Junction to Mounting Base	1.0°	1.0°	1.0°	1.0°	1.0°	1.2°	1.2°	1.2°	1.2°	1.2° °C/watt
Nominal Base Current I _b (V _{bc} = -2 volts, I _c = -1.2 amp.)	-19	-13	-19	-19	-13	-24	-13	-24	-13	-27 ma

*Adequate Heat Sink

**Designed to meet MIL-T-19500/13 (USAF) 18 JUNE 1957

*Performance characteristics
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These ten Delco Radio alloy junction germanium PNP power transistors are now in volume production. They are characterized by high output power, high gain, and low distortion. And all are normalized to retain superior performance characteristics regardless of age.

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726 Santa Monica Boulevard
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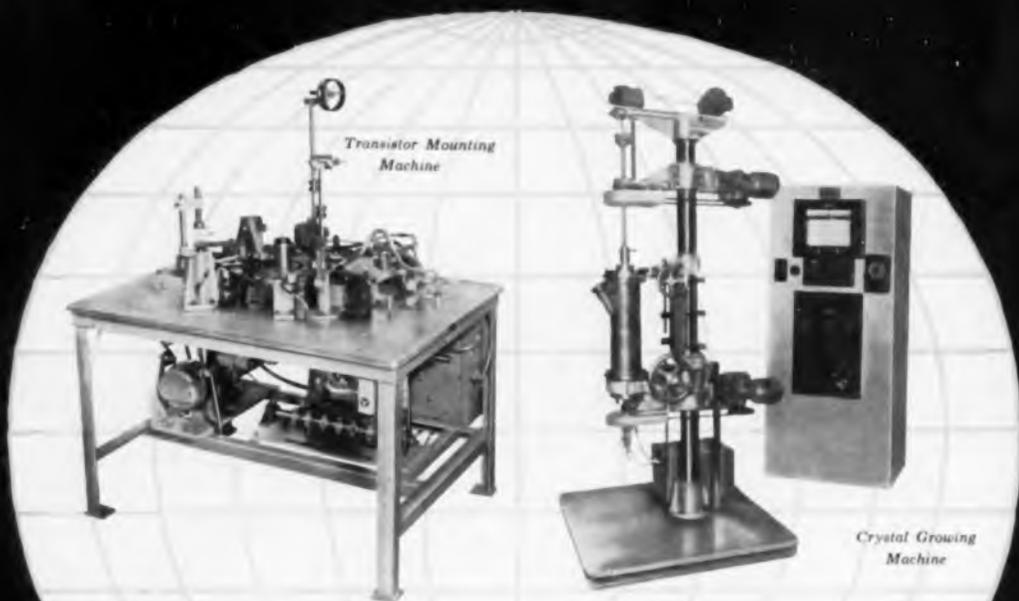
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Seattle: Associated Industries, 1752 Rainier Avenue.

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This miniature acceleration operated switch is designed for missile applications requiring positive switch functions at first motion, during, or after boost. Versatile locking arrangement permits cycling or recycling of switch during various phases of flight (requires 30 watt signal). It is conservatively rated and is designed for expendable one-time use.

The switch may be pre-set to activate at any first-motion level between 5 and 20 G's longitudinal acceleration. Average transverse accelerations can be tolerated during operation. Design permits locking or unlocking at accelerations 10 G's in excess of pre-set level. Switch functions within 50 milliseconds after reaching operational acceleration.

ADVANTAGES:

- Small size, uses standard BuOrd \mp 18 synchro mount.
- Light weight, approximately 12 ounces (depending on model).
- Rugged. Meets military specifications for aircraft and missile use.
- Standard switch arrangements: 3 SPST make, break, or pulse. Custom arrangements available with minimum delay.
- Sealed construction permits use in explosive atmospheres.
- Standard temperature range -65°F to $+250^{\circ}\text{F}$. Extended range to $+500^{\circ}\text{F}$ available with modified ratings.

NEW HIGH-SENSITIVITY S-BAND BEACONS



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- Over-all triggering sensitivity: -65 DBM
- Receiver frequency: 2700-2900 mc
- Receiver frequency stability: ± 2 megacycles per second
- Image rejection: 30 db minimum
- Peak transmitter power output: 100 watts minimum
- Transmitter pulse width: 0.75 microseconds
- Transmitter repetition rate: 200-1,000 pps
- Transmitter stability: ± 2 megacycles per second
- Transmitter frequency range: 2850 to 2950 mc
- Size: 9" x 5 1/4" x 5"
- Weight: 8 lbs.

Power Supply

- Input Voltage: 115 volts at 400 cycles
- Input Power: 80 watts
- Size: 7" x 3" x 4 1/2"
- Weight: 5 1/2 lbs.

A 28 volt DC supply is available on special order.

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Andrews Air Force Base Washington 25 D C
Phone REdwood 5-8900

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Maj Gen J W Sessums 89251

DEPUTY COMM FOR RESOURCES
Maj Gen Don R Ostrander 89212

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Lackland AF Base Texas
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CHIEF Howard Huber

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Wright-Patterson AF Base Dayton Ohio
Phone KEEnore 7111

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VICE COMM Col J H Rotrock 28232

DEPUTY FOR DEV Col H P Huglin 39257

DEPUTY COMM FOR RESOURCES
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CHIEF OF STAFF Col E R Jacoby 20159

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COMMUNICATION & NAV LAB
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WEAPONS GUIDANCE LAB
Col T H Cummins 24218

ELECTRONIC COMPONENT LAB
Lt Col G F Watkins 29111

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Griffiss AF Base Rome N Y
Phone ROME 3200

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DEPUTY Col D B White

DIRECTOR OF PROCUREMENT
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DIRECTORATE OF INTELLIGENCE & ELECTRONIC WARFARE
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Bedford Mass
Phone CRESTVIEW 46100

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DESIGNERS AND MANUFACTURERS OF ELECTRONIC EQUIPMENT

3

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LA-90 10×10^{-9} Frequency Standard . . .

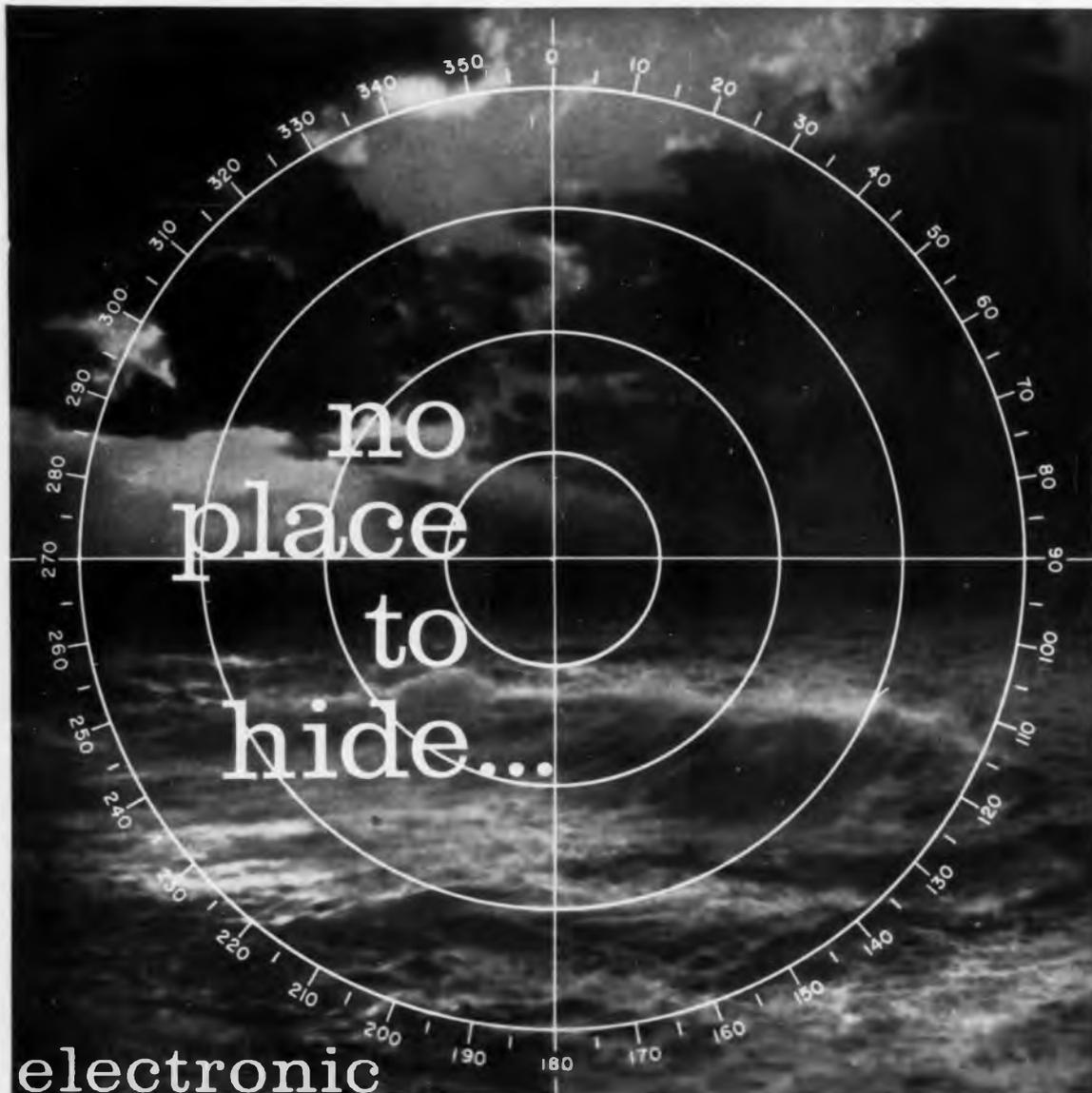
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5839	5839	6X5	TE-2	RECTIFIER, Full-wave
5852	5852	6X5	TE-5	RECTIFIER, Full-wave
5992	5992	6V6	TE-8	AMPLIFIER, Beam power
5993	5993	6X4	TE-10	RECTIFIER
6106	6106	5Y3	TE-22	RECTIFIER
6385		2C51	TE-21	MINIATURE TWIN TRIODE
		5670		
6486		6AS6	TE-11	MINIATURE PENTODE
6582		6AK5	TE-35	MINIATURE PENTODE

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(Reliable, hard glass, ceramic spacers, 300°C Bulb Temperature Rating)

6080WB		6AS7	TE-46	TWIN TRIODE
6082A		6082	TE-55	TWIN TRIODE
6094	6094	6AQ5	TE-18	MINIATURE AMPLIFIER
		6005		
		6095		
6384	6384	6AR6	TE-27	AMPLIFIER Beam power
		6098		
6486A		6AS6	TE-43	MINIATURE RF PENTODE
6582A		6AK5	TE-44	MINIATURE RF PENTODE
6754		412A	TE-36	RECTIFIER, Full-wave
6851		5751	TE-42	MINIATURE TWIN TRIODE
6853		5Y3	TE-45	BANTAM RECTIFIER, Full-wave
6854		2C51	TE-47	MINIATURE TWIN TRIODE
		5670		
6877		½ 6080	TE-48	MINIATURE TRIODE
6899		Top Cap	TE-52	AMPLIFIER, Beam power
		6384		
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COMPUTER TUBES

6888	7AK7	TE-40	GATED PENTODE
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GROUP II—MICROWAVE TUBES

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2K50	2K50	K	TE-4	REFLEX KLYSTRON
6116	6116	X	TE-62	REFLEX KLYSTRON
6541		K	TE-30	REFLEX KLYSTRON
6584		C	TE-38	REFLEX KLYSTRON
		Ka	TE-37	REFLEX KLYSTRON
		Ka	TE-53	REFLEX KLYSTRON
6845	6845 (US Navy)	X	TE-59	REFLEX KLYSTRON
6940		X	TE-58	REFLEX KLYSTRON
		K	TE-60	REFLEX KLYSTRON
		X	TE-61	REFLEX KLYSTRON
		V	TE-67	BACKWARD-WAVE OSCILLATOR
		C	RXB-103401	TRAVELLING-WAVE TUBE AMPLIFIER
		V	TE-66	BACKWARD-WAVE OSCILLATOR

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SPECIAL PURPOSE GAS TUBES

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5643		TD-37	SUBMINIATURE XENON THYRATRON (COMMERCIAL SPEC)
5947		TT-2	TEMPERATURE LIMITED DIODE
5960		TD-1	COLD CATHODE DISCHARGE
		TD-45	COLD CATHODE DISCHARGE
		TD-28	COLD CATHODE TETRODE THYRATRON
6142		TD-9A	GAS DIODE VOLTAGE REGULATOR
		TD-19	GAS DIODE VOLTAGE REGULATOR
6144		TT-1	NOISE DIODE
6352		TT-29	SUBMINIATURE TEMP LIMITED DUAL-DIODE
6361		TT-25	SINGLE CONVECTRON
5845		TT-30	MINIATURE TEMPERATURE-LIMITED DIODE

GROUP IV—GAS NOISE SOURCE TUBES

Frequency Range KMC	Waveguide Band	Bendix Type Number	EIA Type Number	Mount Type	Recommended Mode of Operation	Anode Current MA	Tube Drop Volts	Tube Excess Noise Ratio DB
1.12-1.70	L	RG-69	TD-21	6881	90°H	D.C.	250	65
			TD-29	7101	90°H	A.C. & D.C.	250	130
2.6-3.95	S	RG-48	TD-12	6358	10°E	D.C.	250	80
			TD-22	6782	90°H	A.C. & D.C.	250	45
3.30-4.90	S	WR-229	TD-24	6852	10°E	A.C. & D.C.	250	65
			TD-10	6356	10°E	D.C.	250	70
3.95-5.85	C	RG-49	TD-10	6356	10°E	D.C.	250	70
5.85-8.20	X	RG-50	TD-10	6356	10°E	D.C.	250	70
8.20-12.40	X	RG-52	TD-11	6357	10°E	D.C.	200	75
			TD-23	6882	10°E	D.C.	200	115
12.4-18.00	KU	RG-91	TD-18	6684	10°E	D.C.	200	70
18.0-26.5	K	RG-53	TD-13	6359	10°E	D.C.	200	65

GROUP V—SPARK GAPS

Type No.	DC Break-down KV	Initial Pulse Break-down KV	Repetitive Pulse Break-down KV	Watts Maximum Dissipation	Peak Discharge Watt-Second	Fault Surge Current Amps	Isotope Stabilization	Initial Equipment Usage	Configuration
TG-25	0.400			3	2		Yes	Safety	1
TG-26	0.75			5	2	1000	Yes	Safety	2
TG-27	1.0			5	5	1000	Yes	Safety	2
TG-30	2.0	3.0	2.7	5	14	2000	Yes	Safety	2
TG-34	5.0	8.5	5.5	5	19	3000	Yes	Safety	2
TG-37	10.0	20.0	15.0	5	22	4000	Yes	Safety	2
TG-56	20.0	23.0		7.5	30	5000	Yes	Safety	4
TG-60	50.0			7.5	50	6000	Yes	Safety	4

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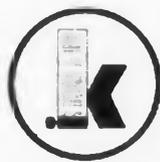
Research and development of equipment for transmitting and receiving printed communications has been a continuing project at Kleinschmidt for almost 60 years. This unparalleled store of experience, now joined with that of Smith-Corona Inc, holds promise of immeasurable new advances in electronic communications.



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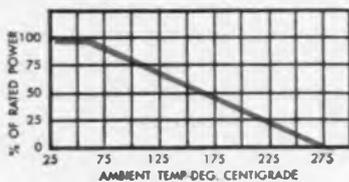


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FIVE WATTAGE RATINGS

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Extreme altitude is only one of many demanding requirements in which DALOHM RSE precision wire wound resistors offer dependable reliability. The precision resistor element is inserted in a special shock absorbent material and completely sealed in a tough metal tube. Its ready to meet demanding conditions of mechanical shock, moisture and humidity, thermal cycling and power loading.

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Write for Bulletin R-25

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ELECTRONIC INDUSTRIES

1958 Guided Missile Directory

Listing the major operational and developmental guided missiles and the electronic firms and military agencies directly responsible for their design, development, testing and production. Includes personnel managers, chief engineers and military personnel in missile procurement.

For convenient reference the following information has been divided into sections: First, a listing of the major operational and developmental missiles. Second, the military agencies responsible for missile procurement, design and testing with the officers having prime responsibility. Third, a summary of the prime electronic contractors, with the names of the chief engineering executive and personnel manager.

U. S. ARMY

NIKE-AJAX is the Army's first supersonic antiaircraft guided missile designed to intercept and destroy the enemy target regardless of evasive action. It is a missile about 30 ft. long and about 1 ft. in dia., with two sets of fins for guidance and steering. It is boosted to supersonic velocity by a solid-propellant booster and maintained by a liquid sustainer motor. The missile and booster weigh more than one ton. Developed and produced by Western Electric Co.

CORPORAL is equipped with either an atomic or conventional type warhead and engages tactical target at ranges over 75 mi. away. It follows a ballistic trajectory during most of its flight. Weather and visibility conditions place no restriction on the use of the weapon. The propulsion system uses a liquid propellant rocket motor. The missile travels through space at several times the speed of sound. Manufactured by Firestone Tire and Rubber Co. and Gilfillan Bros., Inc.

HONEST JOHN is a long-range rocket, capable of carrying both an atomic or a high explosive warhead. Provides close fire support in ground combat operations. **HONEST JOHN** is a free-flight rocket as distinguished from guided missiles. The system consists of a rocket weighing several tons and a highly mobile self-propelled launcher. Developed by Douglas Aircraft Co. and Emerson Electric Co.

LITTLE JOHN, a 12½-in. rocket, about 12 ft. long, possesses simplicity and reliability and utilizes a solid propellant rocket engine. Lightweight launchers and ground equipment are adaptable for an extremely high degree of mobility on the ground and are easily airlifted. It is manufactured by Emerson Electric Co.

SERGEANT, a solid propellant surface-to-surface ballistic guided missile, will eventually succeed the **CORPORAL**. The **SERGEANT** is 30 ft. long. It is invulnerable to any known enemy counter-measures. **SERGEANT** has greater mobility, can be more easily stored, and put into action more quickly than many other weapons systems. It is air transportable. It will be produced by the Sperry Gyroscope Company's Surface Armament Div.

REDSTONE. The largest surface-to-surface ballistic guided missile successfully fired in this country. Named for the place of its development, the Army's Redstone Arsenal at Huntsville, Ala., it is a future operational field missile and at the same time a basic "step" toward the new **JUPITER**. The **REDSTONE** was developed under supervision of Dr. Werner von Braun, developer of the German V-2 rocket, and is being produced by Chrysler Corp.

PERSHING is a solid propellant ballistic missile selected to succeed the **REDSTONE** liquid propellant missile. The new missile will be smaller, lighter, and more mobile than the **REDSTONE** and will provide the Army with a more versatile and flexible weapon with which to discharge its role on the battlefield of the future.

JUPITER. The Army's IRBM, capable of being launched from land, which the Army Ballistic Missile Agency at Huntsville, Ala., was set up to develop under high priority early in 1956. Chrysler Corp. was awarded an engineering and production work contract on this missile. The Air Force announced the activation of the 864th Strategic Missile Squadron on Jan. 15, 1958, utilizing the **JUPITER** (IRBM).

LACROSSE is a highly accurate general support field artillery guided missile for use in close tactical support of ground troops. It will replace and supplement conventional artillery. Its propulsion system uses a solid propellant rocket motor. System includes the missile, a launcher mounted on a standard Army truck, and other ground equipment. It is being produced by Martin Co.

DART is a guided anti-tank missile, solid-propellant rocket propelled. It was designed for an increased effective range, far higher accuracy at this longer range. The **DART** missile, is designed for use by front-line troops. System is being developed by Aerophysics Development Corp.

NIKE-HERCULES becomes operational in four areas in June 1958. The dart-shaped missile alone is 27 ft. long; the booster, 14.5 ft. long. Initial impetus given by a solid propellant booster rocket; accelerated by a solid sustainer motor. Detonation can only occur at altitudes sufficiently high to prevent damage to friendly surrounding terrain. Produced by Western Electric Co.

(Continued on page 154)



REDSTONE

U. S. ARMY



NIKE-HERCULES

U. S. ARMY



NIKE-AJAX

U. S. ARMY

Missile Directory (Continued)



BOMARC

U. S. AIR FORCE



HAWK

U. S. ARMY



REGULUS II

U. S. NAVY



SPARROW III

U. S. NAVY

HAWK is the newest air defense weapon against attackers flying at the lower altitudes. It will complement the NIKE system. The missile uses a solid fuel propellant and is approximately 17 ft. long and 14 in. in dia. Raytheon Mfg. Co. developed and is producing the system.

NIKE-ZEUS is a surface-to-air missile system under development to provide an anti-missile defense against ICBMs equipped with nuclear warheads that could strike the United States. The prime contractor is Western Electric Co.

PROJECT PLATO is a mobile anti-missile guided missile system being developed. It will use the NIKE-ZEUS missile. Work started about 4 years ago. Sylvania Electric Products, Inc., is the prime contractor.

U. S. NAVY

SIDEWINDER is guided by an infra-red or heat seeking device. It is an inexpensive, reliable weapon measuring 9 ft. in length and weighing about 155 lb. It is designed for destroying high-performance enemy fighters and bombers. Production of guidance and control units by Philco Corp. and General Electric's light Military Electronic Equipment Dept.

PETREL is an air-to-surface weapon 24 ft. long, with a wingspan of 13 ft. and weighing 3,800 lb. It is powered by a turbojet engine and uses radar homing for guidance. Although presently operational within the Fleet, it has been phased out of production.

REGULUS I is a surface-to-surface missile resembling a conventional swept-wing jet fighter about 30 ft. long. Capable of carrying a nuclear warhead, it is powered by a turbojet engine. An improved missile known as **MODULUS II** is under development.

TERRIER is an all-weather surface-to-air missile. Designed to intercept enemy aircraft at longer range and higher altitudes than conventional anti-aircraft guns, the 15 ft. weapon weighs about 1.5 tons, has a range of about 10 mi., and utilizes a solid-fuel rocket motor. It is made by Convair.

SPARROW I is 12 ft. long, weighs 300 lb. and has a speed of over 1,500 mph. It is powered by a solid-propellant rocket motor. It has been phased out of production. **SPARROW III**, developed by the Raytheon Mfg. Co., will augment its predecessor in fleet air defense. The new missile attains a speed of over 1,500 mph within seconds after launching.

TALOS is a supersonic surface-to-air missile. It is powered by a ramjet 40,000 hp engine, weighs about 3,000 lb. and is about 20 ft. long and 30 in. in dia. The Bendix Aviation Corp. is prime contractor.

TARTAR, a surface-to-air missile, was designed especially for use aboard destroyers. It is described as a junior version of the **TERRIER** missile, but has about the same range. A solid-propellant rocket is being built by Convair.

POLARIS (IRBM) will be smaller and lighter than other IRBMs. The missile is designed especially for shipboard use and will use a solid-propellant fuel.

BULLPUP is an air-to-surface tactical guided missile designed for use by carrier-based Navy aircraft and shore-based Marine planes. It is 11 ft. long, weighs 540 lb. and is now in production at the Martin Co.

CORVUS is an air-to-surface missile for use in penetrating heavily defended areas, also for use against surface ships. It is designed of a size to permit its use on carrier-based aircraft. The prime contractor for this solid fuel rocket is the Tamco Aircraft Corp.

WEAPON ABLE is a 500 lb., 12.75 in. antisubmarine rocket equipped with a conventional explosive charge. The weapon is fired from a launcher resembling a conventional gun turret. A special fire-control system aims the rocket at the enemy submarine.

ZUNI is a 5.0 in. folding-fin, solid-propellant, all-weather, conventional explosive rocket designed primarily as an air-to-surface weapon. Used by attack-type aircraft, the rocket is highly effective against tanks, pillboxes, gun emplacements, trains, motor convoys, ammunition and fuel dumps, and small ships. **ZUNI** has been approved for operation use in the Fleet.

RAT is a rocket-thrown torpedo weapon system, consisting of a rocket-propelled antisubmarine torpedo, 13½ ft. long, weighing 480 lb. A parachute stabilizes its flight and carries it down to the water. On entering the water, the torpedo releases the parachute, sheds its nose cap, and starts to search for and attack the submarine.

GIMLET is an air launched rocket under research and development. All other information is classified.

U. S. AIR FORCE

MATADOR (TM-61C) is a tactical missile in the subsonic speed range, manufactured by the Martin Co. In March, 1954, it was assigned to operational units. It has a wingspan of 28.7 ft., a length of 39.6 ft. Ground-launched by a rocket booster from roadable launcher. It is powered by an Allison jet engine (J-33-A-37), controllable electronically in flight by ground personnel.

FALCON (GAR-1, radar guidance) (GAR-2, heat-seeking guidance) guided, airborne rockets in the supersonic speed range, manufactured by Hughes Aircraft Co. It became operational in March, 1956. **FALCON** weighs slightly over 100 lb., is approx. 6 ft. long, and is powered by a solid propellant.

(Continued on page 156)

MODEL A-3052-2



This companion unit to the Model 3115 Transmitter is employed to achieve 25 to 100 watts r-f power with as little as 2 watts input. The same rugged design criteria are inherent with this instrument as are designed into the Transmitter. It is also approved for use in several missile system programs.

- Frequency—215-260 mc.
- Temperature— -55°C to $+75^{\circ}\text{C}$
- Shock—100g
- Vibration—20g, 20-2000 cps
- Altitude—0-70,000 ft.

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POWER AMPLIFIER

- 9 Channels
- 55-85 db Interchannel Isolation

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Bulletin RAD B-106



MODEL 4-100

MULTICOUPLER for TELEMETRY RECEIVERS

MODEL 3115



This new improved model, approved for use in several missile systems, is designed for extreme environmental conditions: 100g shock for 6 milliseconds, 20-2000 cps vibration at 10g, -55° to $+75^{\circ}\text{C}$, 70,000 ft. altitude. Subminiaturized and crystal-controlled. Spurious output better than 60 db below carrier in the telemetering band.

- Power output—2 watts nominal
- Frequency—215-260 mc
- Weight—32 ounces
- Sensitivity—1.13 vrms
- Deviation—150 kc with 1% linearity
- Output Impedance—50 ohms nominal
- Stability—0.01%

Bulletin RAD B-102

FM TELEMETERING TRANSMITTER

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MODEL 7-100



This system is capable of accepting as many as four incoming signals from various sources including time and reference, and mixing these signals for recording on a magnetic tape for further processing. Controls provide attenuation and monitoring of individual input signals and the output. Frequency response 300 cps to 100 kc with less than 0.3% harmonic distortion.

Bulletin RAD B-101

MIXER-MONITOR

This demodulator applies the advantages of advanced demodulation techniques currently used in FM/FM telemetry receivers. When used with popular receivers, the receiver improvement threshold is lowered by a minimum of 6 db. In this manner, greater range capability is provided for existing systems with no increase in transmitter power. Installation and operation are simplified to the extreme. No soldering is required for connecting to the receiver.

Bulletin RAD B-110



MODEL 8-100

RECEIVER PHASE-LOCK DEMODULATOR

MODEL 3-100



Utilizing 640 individual styli writing on electrosensitive paper this recorder is unique in its variety of applications. As an on-off recorder-indicator, it monitors as many as 640 individual circuits at one time. As a data recorder, (in the ADAR System) it plots digital data in analog form for immediate analysis. As a high-speed printer, it records digital outputs from electronic computers at the rate of 400 lines per second; each line may contain as many as 102 characters. Features: real-time viewing, 100" per second chart speed, no photographic developing, transient response equal to 50-microsecond squarewave.

Bulletin RAD A-100

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Missile Directory (Continued)

SNARK (SN-62) is a long-range, strategic missile, now in production. It is manufactured by Northrop Aircraft, Inc., and is powered by a Pratt & Whitney J-57 turbojet engine. It is designed to carry a nuclear warhead at high speeds and high altitudes against far distant targets, by means of a self-contained guidance system.

RASCAL (GAM-63) is an air-to-ground guided missile. It is manufactured by the Bell Aircraft Corp., is 32 ft. in length, and 4 ft. in dia.

HOUND DOG (GAM-77), an air-to-surface guided missile now under development by North American Aviation Corp. It will be supersonic and will be capable of carrying a nuclear warhead many hundreds of miles to a target with pin-point accuracy.

BOMARC (IM-99) is a long-range surface-to-air guided missile, now in production, designed for air defense to engage and destroy the enemy far out from his intended target. BOMARC is approx. 47 ft. long with a wingspan of about 18 ft. The missile weighs about 15,000 lb. It is rocket launched from a vertical position and cruises on twin ramjet engines at supersonic speed. Designed and built by the Boeing Airplane Co.

MACE (TM-76A), newest Matador development (formerly the TM-61B0), includes a self-contained navigation system, and is currently undergoing cross-country flight tests in a controlled air corridor from the Air Force Missile Development Center near Alamogordo, New Mexico, to a pre-selected impact area on the Wendover, Utah, Air Force Base target range, approx. 650 mi. away.

GREEN QUAIL (GAM-72), a diversionary air-launched missile under development by the McDonnell Aircraft Co.

BULL GOOSE (SM-73), a ground-launched diversionary missile under development by the Fairchild Engine and Airplane Corp.

THOR (SM-75) (IRBM). Now in production by the Douglas Aircraft Co. Separate contracts were awarded to prime contractors for sub-components such as a guidance system, propulsion and other sub-systems.

ATLAS (SM-65) (ICBM), with a range of 5,500 nautical miles, is being produced by Convair. It is launched by rocket engines developing many tons of thrust and millions of horsepower within seconds, which impart speeds well above 10,000 mph.

TITAN (SM-68) (ICBM) is being developed by Martin Aircraft Co. The TITAN, a two-stage missile, by design is potentially superior to the ATLAS in range and payloads and is proceeding well in its development phase.



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LACROSSE U. S. ARMY



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Circle 41 on Inquiry Card, page 175

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Glossary of Guided Missile Terms



U. S. Army's CORPORA, a surface to surface guided missile, is poised, ready for firing at the White Sands Proving Grounds.

Airfoil—Any aerodynamic surface designed to obtain a reaction from the air through which it moves. An aileron, wing, rudder or similar device is an airfoil.

Apogee—The high point in an orbit. The apogee refers to the maximum distance away from the earth of an orbital vehicle. It is the opposite of perigee, or point of nearest approach.

Askania—A cine-theodolite, which is a high precision optical instrument used in the ballistic instrumentation of guided missile tests. ("Askania" is the name of the German Company which manufactures theodolites.) The cine-theodolite is used in pairs or various combinations to survey the position of a missile in flight. The instrument consists of an accurate transit type surveying device which automatically records the azimuth and elevation angles together with a picture of the direction of pointing; thus, tracking errors can be corrected and a true direction to the target determined.

Attitude—The position of an aircraft as determined by the inclination of its axes to some

frame of reference. If not otherwise specified, this frame of reference is fixed to the earth.

Aerodynamics—That field of dynamics which treats of the motion of bodies relative to the air and the forces that act upon the bodies, especially as they relate to flight through the air.

Aerodynamic Missile—A military weapon requiring the use of aerodynamic forces to maintain its flight path. It is an aircraft type vehicle used for military purposes. It is generally, but not necessarily, guided. The SNARK, BOMARC and MATADOR are aerodynamic missiles.

Ballistic Missile—A type of missile, either guided or unguided, which is powered only for the

(The terms defined here are used by scientists, engineers and technicians working at the Air Force Missile Test Center, Cape Canaveral, Fla. Acknowledgment is rendered Colonel C. E. Ewing, USAF, Director, Range Development, AFMTC, and Captain B. B. Small, U.S. Army, Assistant Project Officer, Army Ballistic Missile Agency, AFMTC for their invaluable assistance and cooperation in compiling this glossary. In addition, ten of the terms (with portions of, or their complete, definitions) were extracted from the U.S. Air Force Dictionary, edited by W. A. Heflin, Air University, Maxwell AFB, Alabama.)

short, early portion of its flight and then travels most of its trajectory in a free-fall ellipse. A thrown rock is a ballistic missile. If guided, a ballistic missile will ordinarily be controlled during the powered phase of flight only. (There is no officially accepted definition for a ballistic missile, but it generally refers to any vehicle whose major portion of flight is in free fall in the manner of a projectile.) The ATLAS, THOR and JUPITER are ballistic missiles.

Blockhouse—A reinforced concrete structure, located near the missile launching pad, which houses special control systems used by operating personnel to effect the remote control launching of a missile.

Burn Out—1. The time at which a jet or rocket engine ceases to burn because of the exhaustion of fuel. The term is distinct from "cutoff," which implies an intentional command cessation of burning. 2. The rupturing of a combustion chamber through excessive heating.

Characteristic Length—In propul-

sion, the ratio of the chamber volume to its nozzle throat area. A measure of the length of travel available for the combustion of the propellants.

Condensation Trail—A visible cloud streak, usually brilliantly white in color which trails behind a missile or vehicle in flight under certain conditions. It is caused by the formation of water droplets or sometimes ice crystals due to the sudden compression, then expansive cooling, of the air through which the vehicle passes. Although spectacular, these trails may interfere with visual tracking of a missile. They are popularly called *contrails* from a contraction of the two words; also, they are sometimes called *vapor trails*.

Data Reduction—The process wherein raw data gathered by various electronic and optical devices on a test missile's flight are fed through automatic reduction machines to provide usable information on the missile's performance. (This information is subsequently compiled in a Flight Test Report for evaluation purposes.)

Development—The application of known scientific facts, techniques, materials, and physical laws to the creation of new or improved material or methods of military use.

Destruct Line—A graphic representation drawn on a geographical map to show the boundary which a missile must not cross during flight. These lines all are superimposed on maps, in pairs, and together define the space corridor in which missiles may fly. A missile which starts beyond the destruct line on either side is immediately destroyed by the Range Safety Officer.

Destructor—An explosive or other device for intentionally destroying a missile or aircraft, or a component thereof.

Digital Computer—A mechanism which performs mathematical operations.

Dovap—An abbreviation for "Doppler Velocity and Position." Dovap is a system consisting of a ground transmitter station and a series of ground receiving stations which operate in conjunction with a transponder (see 83, below) in the missile. Function of the system is

to obtain information on the position and velocity of the missile. The doppler effect principle (above) is employed.

Drone—A remotely controlled aircraft. Drones are employed at AFMTC as aerial targets for interceptor missiles being tested here.

Egads—A locally devised term meaning "Electronic Ground Automatic Destruct Sequencer." This is an electronic timing device which automatically selects and provides control for a number of command destruct (ground) transmitters so that, as the missile progresses in flight, it is under control of the transmitter which can most effectively "illuminate" it. The sequencing is manually set into the device, based upon time computations of missile flight.

First Motion—In guided missile range terminology, the first indication of motion of the missile or test vehicle from its launcher. It is synonymous with "take-off" for aerodynamically supported vehicles or "lift-off" for vertically launched ballistic missiles.

Flac—An abbreviation for FLORIDA AUTOMATIC COMPUTER. It is a digital computer used at AFMTC for data reduction purposes. (The original Florida Automatic Computer was designed and constructed by a civil service worker formerly employed in the data reduction facility at AFMTC.)

Gantry—Name given to the large scaffold-like crane which supports the missile on its launch pad while pre-flight preparations are in progress. Can be positioned directly over the launching site and rolled away just prior to firing.

Guidance—The process of intelligent maneuvering which causes a missile or other vehicle to reach a specified destination. Guidance is accomplished by control in two phases: **attitude control** and **path control**. The general term **guidance** includes the entire scheme, i.e.—sensing devices, computers, and the servo systems necessary to convert the calculated guidance commands into vehicle response. Guidance may be separated into phases of the flight path as: **initial**, **midcourse**, and **terminal**.

Essentially there are eight basic guidance systems: **pre-set**, **terrestrial reference**, **radio navigation**, **automatic celestial navigation**, **inertial**, **command**, **beam rider**, and **homing**.

Guidance, Beam Rider—A scheme of guidance in which the missile follows a radar beam to the target by means of on-missile computers and controls which are sensitive to radar beams.

Guidance, Command—A system of guidance in which the vehicle is directed in its flight path by radio commands from a ground station.

Guidance, Homing—A system wherein a missile steers itself toward a target by means of a self-contained mechanism which is activated by some distinguishing characteristic of the target.

Guidance, Inertial—A system independent of information obtained from outside the missile, the sensitive elements of which system make use of the principle of Newton's second law of motion.



Robot-plane like, the Air Force's SNARK is sub-sonic, with a range of 6,000 miles.

Guidance, Midcourse—The guidance applied to a missile between the termination of the launching phase and the start of the terminal phase of guidance.

Guidance, Pre-Set—A technique of missile control wherein a pre-determined path is set into the control mechanism of the vehicle and cannot be adjusted after launching.

Guidance, Terminal—The guidance applied to a missile between the termination of the midcourse guidance and impact with or detonation near the target.

Guidance, Terrestrial Reference—A technique of missile control
(Continued on page 162)

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(Continued from page 161)

wherein the predetermined path set into the control system of a missile can be followed by a device in the missile which reacts to some property of the earth, such as magnetic or gravitational effects.

Guided Missile—An unmanned vehicle moving about the earth's surface, whose trajectory or flight path is capable of being altered by a mechanism within the vehicle. Following are some types of guided missiles (preceded by their basic designations, in which the first letter designates the origin of the missile and the second letter designates the objective):

AAM—Air-to-Air Missile

ASM—Air-to-Surface Missile

AUM—Air-to-Underwater

Missile

SAM—Surface-to-Air Missile

SSM—Surface-to-Surface

Missile

SUM—Surface-to-Underwater

Missile

UAM—Underwater-to-Air

Missile

USM—Underwater-to-Surface

Missile

Gyroscope—A device consisting of a wheel so mounted that its spinning axis is free to rotate about either of two other axes perpendicular to itself and to each other; also the wheel of this device. (The characteristic of a gyroscope to maintain equilibrium makes it a useful component for many aircraft instruments.)

Igniter—A device used to initiate burning of a fuel mixture of a propellant in a ramjet or rocket combustion chamber.

Ignition—The initiation of combustion of a rocket motor. During the ignition phase, a supporting flame is maintained and a low flow rate of primary propellants is begun. As soon as the propellants are burning properly, either an automatic or manual changeover to maximum performance burning is begun.

Interference—1. In radio communication, the disturbance of reception owing to stray or undesired signals.

2. In radar, confusing signals accidentally produced on the indicator by the effect of either friendly or enemy electrical apparatus or machinery or by atmospheric phenomena.

Interference Control—The moni-

toring of radio frequencies assigned to a missile range for detection of interfering signals that could result in malfunctioning of missile-borne equipment, and the concerted effort to locate and terminate the source of interfering radiations.

Ionosphere—That portion of the earth's atmosphere, beginning about 30 miles above the earth's surface which consists of layers of highly ionized air capable of bending or reflecting certain radio waves back to the earth. (This condition enables the transmission and reception of radio-frequency signals between two distant points.)

Jet—The exhaust stream or rapid flow of fluid from a small opening or nozzle.

Jet Vane—A vane made of some highly heat-resisting material (e.g., graphite) placed in the jet stream for use in guidance of a missile.



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Launcher—A mechanical device, either mobile or stationary, which rigidly "cradles" or supports a missile in its proper launching position until the missile is launched. It directs the missile in the desired direction of flight during initial motion, but does not itself propel the missile.

Launcher, Zero Length—A specially designed launcher, usually slightly longer than the missile it supports, which can be adjusted, both in elevation and angle, so that missile heading can be controlled at take-off. Used primarily for cruise or aerodynamic type missiles, it is ideally suited for tactical launchings on land and also aboard ships.

Launching Complex—A general term intended to include all support facilities within a confined area which are vital to missile pre-flight check-out and launching. The combination of block-

house, launch pad, and nearby supporting facilities are referred to as a "launch complex," since they are all contained within a relatively small area and all support the ultimate launching.

Launching Officer—The official having test control over the launching of a missile or research vehicle.

Main Stage—In the ignition sequence of a liquid propellant rocket, full thrust burning cannot be attempted immediately. In the early rocket motors the ignition began with an electrically ignited squib around which a small amount of propellant was allowed to pass. After ignition of the first propellant, a second step called primary stage burning was entered. In this step both propellants at limited flow rates were ejected into the combustion chamber. When burning appeared normal to a visual observer, a command would be given for full thrust, or so-called main stage burning. This was the full thrust level burning which would result in lift-off of the rocket.

Mellerwagen—A trailer type vehicle used by the Germans in World War II to transport and erect the V-2 rockets. It was equipped with hydraulic apparatus to raise the rocket into a vertical launching position, and it also had platforms for working on and checking out the missile.

Navigation, Celestial—A form of navigation using the stars for reference. (In missile terminology, a system wherein a guided missile, suitably instrumented and containing all necessary guidance equipment, may follow a predetermined course with reference primarily to the relative positions of the missile and certain pre-selected celestial bodies.)

Pad—A permanent or semi-permanent base constructed to support a missile-launching device.

Pad Chief—The individual charged with coordinating overall operations on the pad.

Pad Safety Officer—The individual responsible for maintaining safety practices during the launching operation. This includes such areas as fueling, arming of destruct packages, etc.

(Continued on page 166)

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6	866*	2F4	718		3001		1	VS010	A1				
6		Z4	724	M-2	3002		2	VS068	A2			4919*	
4½	360	F3	736	M-3	3003	P38	3	VS067	A3	688	3B-6135	3816	Z736
1½	462	4F	742	M-4	3004	P94	4	VS004	A4		3B-6110*	4816	Z94
1½	660	6F	743		3005	P96*	5	VS007*	A5		3B-6115*	4814*	Z96
6	646	F4P1	744	M-6	3006	P4F4R	6	VS009	A6	639	3B-6145*	4914	
4½	361	G3	746		3007	P100	7	VS002	A7	683	3B-6135	4918	Z83A
7½		B5	713	M-8	3008		8	VS129	8			5219	
7½	591	C5	717	M-9	3009	P31	9	VS065	9	685	3B-6160	5316	Z750
7½		T5	W360		3010		10		A10				
1½		2F	W353	M-11	3011		11	VS141	11				
1½		4FL			3012		12	VS005	12		3B-6750		
1½	10M	230	A100	M-13R	123	P920	13		2LP	75LP			Z2NL
1½	11M	130	635	M-14R	113	C	14	VS035	1LP	74		1311	Z7
1½	59-1	930	900 or 1013	M-15R or 200*	173	P15	15	VS034	7P or 7LP	908	3B-6710	1711	Z8
6	868	2F4L	747		3016		16	VS011	16			4815	Z698L
1½	860	8F	741		3017		17		17	635		4819	
1½		2D	720	M-18	3018		18	VS069	18			2516	
4½	305	D3	726	M-19	3019		19	VS072	19			4516	Z450
1½	61R	21R	964	M-20	3020	P77	20	VS236	20	684	M-2112* or M-4112*	2416	Z5
1½		8FL*	745		3021		21	VS008*	21	645		4813*	
7½		G5*					22	VS003*	22				
1½		8R	960P	M-23	3023		23	VS070	23				Z1 & Z955
1½	58	7	912	M-24	180	K	24	VS074	400		3B-6705	1911	
6		F4L*					25		25				
7½		D5	707	M-26	3026	P26	26	VS315	26				Z707
6		2F45					27		27				
67½	45N	XX45	467	M-200	4200	P67	200	VS016	200	767	3B-6258	1710	Z67
45		XX30	455	M-201	4201	P105	201	VS055	201	745	3B-6242	6211	Z455
45	30-33	M30	482	M-202	4202	P45	202	VS013	202	640	3B-6241	6210	Z783
67½		K45	457	M-203	4203		203	VS082	203			1712	Z457
90	60N	N60	490	M-204	4204	P132	204	VS090	204	769	3B-6260	1713	Z490
22½, 45	30-59	Z30	738	M-205	4205	P104	205	VS015	205	620		6718*	
45		A30	W359	M-206	4206	P210	206	VS014	206		3B-6228	6118*	Z530
45	30-03	B30	484	M-207	4207	P305	207	VS012	207	624		6218*	
15		U10	411	M-208	4208		208	VS083	208			1914*	Z11
30		U20	413	M-209	4210		210	VS085	A210			1916	Z13
67½		P45M			4311	P175	211M	VS111 or VS114	211M				
67½	675	P45	477	M-211P	4211	P149	211P	VS218	211P	777	3B-6257	1709	Z477
75		XX50	437	M-212	4212	P144	212	VS217	212			1708	Z437
45		U30	415	M-213	4213	P150	213	VS086	213			1909*	Z415
90		P60	479	M-214	4214	P176	214	VS219	214				Z90
22½	12P	U15	412	M-215	4215	P612	215	VS084	215			1915*	
90		N60X	495	M-216	4216	P190	216						Z495
67½		UX45	416	M-217	4217	P217	217		217				
15	15P	Y10	504	M-220	4220		220		220				
22½	22P	Y15	505	M-221	4221		221		221				Z6
30		Y20S	507	M-222	4222		222						
30		Y20	506	M-223	4223		223						
15		K10	417		4224		224						
22½		K15	420		4225		225						
30		K20	430		4226		226						
103½		XX69	W361		4227		227		69N				
9, 90	66-03	G6860	752	M-400	5400	P6086F6	400	VS047	A400				Z985
7½, 9, 90	66-50	F6A60	753	M-401	5401	P841A	401	VS019	401	680	3B-6460	614*	Z979
7½, 9, 90		G6M60	754		5402		402	VS018*	402	1	3B-6470*		
6, 7½, 75	66-52	TSZ50	755	M-403	5403	P350	403	VS050	403		3B-6464	618	
7½, 9, 90	66-53	T6260	756	M-405	5405	P371	405	VS057W	405		3B-6466		
9, 90	66-54	F6A60P	757	M-406	5406		406	VS058	406	681	3B-6462	620*	Z909
1½, 63		4GA42	W366		5407	P41A4FL	407	VS053	407			624*	
7½, 63		G5A42	W367		5408	P87	408	VS038	408	AB676			
1½, 90		5DA60*					409	VS043	409				
1½, 90		6TA60	W369	M-410	5410		410	VS054	410			622	
6, 75		F4A50	W368		5411		411		411				Z6394
1½, 60		2TX40	W370	M-412	5412	P89	412						
1½, 90	61-05	17GD60	759	M-413	5413	P60D11L	413	VS022	413	AB666	3B-6430	518	Z802
1½, 90		4SD60	758		5414	P60B6L*	414	VS021*	414			513*	
7½, 9, 90		S6D60	776		5415	P326	415	VS119	415				Z990
1½, 9, 90		G6860 & BR	752W		5400 or 5023		416		23 or A400				Z985X
1½, 90		6FA60*					417	VS037*	417	AB667		611*	
6, 90		F4B60*					418	VS048*	418				
1½ (67½, 90, 105)							419	VS041*	419				
6, 7½, 67½		F5M45*					420	VS020	420				
6, 90		2F4A60*					421	VS044	421				
6, 75		G4850*			5422		422	VS046	422				Z675
1½, 61½		4GA41*					423	VS052	423				
1½, 90					5424		424	VS099*	424	AB676	3B-6432		

"A" BATTERIES

"B" BATTERIES

"A" and "B" BATTERY PACKS

BATTERIES

The following charts have been compiled by the National Electrical Manufacturers Assoc. On the left are original battery manufacturers; on the right are private brands available.

FIRE- STONE	GAMBLE	GOOD- RICH	MONTG. WARD	BEARN	ARMY	NAVY	NEDA NUMBER	GENERAL DRY	OTHER	MAXIMUM DIMENSIONS IN INCHES			
										Length	Width	Overall Height	
					BA-203/U	19020	1	7°			4	2 1/4	5 1/2
							2	39°			1 3/8	1 3/8	2 3/8
4D86			26	6441			3	38°			4	1 3/8	4 1/8
	17-263		21	6430	BA-65		4	3°	ACCO 7114		2 3/8	2 3/8	4 3/8
				6431°			5	5°			4 3/8	2 3/8	4 1/8
				6451			6	4°			2 1/2	2 1/2	4 1/8
	A17-266			6440	BA-226/U		7	8°	Air-Craft FM1317		4 1/8	1 3/8	4 1/8
							8	226°			4 1/8	1 3/8	3
4D136	A17-275		29	6444			9	31°	Admiral 607	Emery EM717	2 3/8	2	3 1/8
							10		Crosley CR60		2 3/8	2 1/8	4 1/8
							11				2 1/8	1 3/8	4 1/8
							12				3 3/8	1 3/8	5 1/8
				4650	BA-30	C = 19031	13				1 1/2	Diam.	2 1/8
				4659	BA-42		14	905°			1 1/2	Diam.	1 1/2
				4650	BA-58		15	938°	Arpa T15	Advance TAAL	3/8	Diam.	1 3/8
	43-268			6452°			16				3 3/8	1 1/2	10 3/8
			20				17	46°	Arpa T10	Advance T10	3 3/8	2 1/8	5 1/8
							18	225°			2 3/8	1 3/8	3 1/8
							19	90°	Arpa T11	Advance T11	3 1/8	1 3/8	3
4D137 4D138	A17-272	39-520	27	6442			20	77°	Emery EM717	Emery EM717	1 3/8	Diam.	4 1/8
							21				3 3/8	1 3/8	10 3/8
							22				3 3/8	2 1/8	4 3/8
					BA-231/U		23	EF-728°			1 1/2	Diam.	4 1/8
7C50				4656			24	901°	Advance T11		3/8	Diam.	1 3/8
				6450°			25	97°			4	1 3/8	5 1/8
							26				2 1/8	2 1/8	2 3/8
							27				3 3/8	2 1/8	5 1/8
4D84	A17-304	39-522	43	6480	BA-51	19032	200	108°	Emery EM717	Emery EM717	2 1/8	1 3/8	3 1/8
4D132			79		BA-56		201	105°	Emery EM717		2 1/8	1	3 3/8
4D89			42	6461	BA-59	19021	202	109°			3 1/8	1 3/8	5 1/8
							203	172°			2 1/8	1 3/8	2 1/8
4D88			46	6465			204	132°	Emery EM717		3 3/8	1 3/8	3 3/8
					BA-63		205	104°	Arpa T10	Advance T10	3 1/8	2 3/8	4 1/8
	A17-302		41	6460°			206	110°	Arpa T10	Advance T10	3 1/8	2 1/8	4 3/8
4D85			49	6462°	BA-223/U		207	111°	Arpa T10	Advance T10	4 1/8	2 3/8	5 3/8
							208	611°			1 1/2	3/8	1 3/8
							210	613°			1 1/2	3/8	2 3/8
				6482			211M	175°	Emery EM717	Emery EM717	1 1/8	1	5 1/8
4D135	A17-310	39-521	40				211P	149°			1 3/8	1	5 1/8
	A17-311	21-5628	47				212	144°			1 1/8	1 1/8	6 1/8
4D134				6485			213	150°	Emery EM717		1 3/8	3/8	3 3/8
4D139	A17-314		55	6470			214	176°			1 3/8	1 1/2	7 1/8
			86		BA-261/U		215	612°	Emery EM717		1 1/2	3/8	2
							216				1 1/8	1 1/8	7 1/8
							217				1 3/8	1	3 1/8
							220	605°			3/8	1 3/8	1 3/8
							221	606°			3/8	1 3/8	2
							222	610°			3/8	1 3/8	2 3/8
							223				1 3/8	3/8	1 3/8
							224				1 3/8	1 3/8	1 3/8
							225				1 3/8	1 3/8	2 1/8
							226				1 3/8	1 3/8	2 3/8
					BA-38		227				1 3/8	1 3/8	11 3/8
4D130	A17-323	39-524	37	6401			400	343°			14 3/8	2 3/8	4 1/8
			33	6407			401	271°	Arpa T10		9 1/2	2 1/8	4 1/8
			35	6404			402				10 3/8	3 3/8	4 1/8
				6408			403	350°			8 3/8	3 3/8	2 3/8
4D74			82	6409			405	371°			8 1/8	2 3/8	3 3/8
				6410			406	273°			9 1/2	2 3/8	4 3/8
			34				407	258°			9 3/8	2 3/8	4 3/8
			36				408	263°			9 3/8	2 1/8	4 3/8
							409				5 3/8	2 1/8	7 1/8
					BA-48		410	266°			10	2 3/8	4 3/8
							411	265°			9 3/8	2 3/8	3 1/8
							412	254°			7 3/8	2 3/8	1 1/8
4D1			32				413				16	4 3/8	6 1/8
			57	6312			414	299°	Arpa T10		10 3/8	2 3/8	6 1/8
			59	6303°			415	330°			8 3/8	4 1/8	13 3/8
			54				416	390°			14 3/8	2 1/8	4 1/8
	AB667		31				417	279°			12	6 3/8	1 3/8
							418				10 3/8	2 3/8	5
				6400°			419				4 3/8	3 3/8	6 3/8
							420				9 3/8	2 1/8	4 1/8
				6403°			421				12 1/8	2 3/8	4 3/8
							422	348°			12 3/8	2 3/8	4 1/8
							423				9 3/8	2 1/8	3 3/8
			51	6308			424				4 1/8	6 3/8	15 3/8

"A" BATTERIES

"B" BATTERIES

"A" and "B" BATTERY PACKS

Guided Missile Glossary

(Continued from page 163)

Payload—In a guided missile, the warhead, fuse and container. In research and test vehicles, this includes equipment for taking data and transmitting (or otherwise recovering) it.

Perigee—That point in an orbit nearest the earth. It is the opposite of apogee, or point in an orbit farthest from the earth.

Program—In missile guidance, the planned flight events to be followed by the missile. The program includes all steps of the missile's guidance scheme and internal operations necessary to accomplish the desired objective. It is a schedule according to time of significant events planned to occur during the flight.

Propagation—A term in the missile business to describe the manner in which an electromagnetic wave, such as a radar signal, timing signal or ray of light, travels from one point to another.

Propellant—Any energy yielding material used to drive a vehicle. It may be either in liquid or solid form. If liquid, it may consist of one or more materials (although it generally contains two: fuel and the oxidizer).

Pulsejet—A jet-propulsion engine, containing neither compressor nor turbine, which produces thrust intermittently. Equipped with vanes in the front end which open and shut, it takes in air to create power in rapid periodic bursts rather than continuously. (The pulsejet engine takes in air in two ways: by the forward motion of the engine as it moves through the air, and by suction caused by the creation of low pressure in the engine after each explosion.) The German V-1 (Buzz Bomb) motor was of this type.

Radar—An electronic device which transmits bursts of radio energy and receives reflections of that energy from objects. The time consumed in this transmission-reflection cycle is accurately measured and converted to distance (range) from the radar to the objects. The highly directional nature of radar beams enables an accurate determination

of direction to the object from the radar. The distance and direction information is presented on instruments allowing an operator to accurately locate the object in space. The word was derived from a contraction of the phrase, "Radio Direction And Ranging."

Ramjet—A type of jet engine consisting essentially of a tube open at both ends in which fuel is burned continuously to create a jet thrust, and having neither a compressor nor turbine, the air for oxidizing the fuel being rammed into the engine as the engine moves forward.



The ATLAS, long range giant, on its launching pad at Cape Canaveral Fla.

Range Safety Officer—The individual charged with insuring that no missile presents a hazard or violates an unsafe area. Specifically, he must insure that no missile impacts on the mainland of Florida or on inhabited down-range land areas. The Range Safety Officer is always an Air Force officer.

Research—A process of scientific investigation prior to and during development. It has for its aim the discovery of new scientific facts, techniques, and natural laws; an extension of the "state-of-the-art."

Research, Applied—Research aimed at specific application of scientific laws, principles, and phenomena. In contrast to basic research, the prospect of practical application of the results is a primary motive for applied research. Frequently even the

methods to be used are clear before work is begun.

Research, Basic—The theoretical or experimental study directed toward the increase of knowledge. It may result in the discovery of new scientific phenomena, principles, techniques, or significant data which add to the store of scientific knowledge. Immediate practical application is not necessarily a direct objective.

Rocket—A thrust-producing system, or a complete missile, which derives its thrust from ejection of hot gases generated from material carried in the system, not requiring intake of air or water. (Rockets may be either of the liquid or solid propellant types.)

Separation—Regarding multistage missiles, the time or place at which a burnt-out stage is discarded and the remaining missile continues on its way.

Sky Screen—An element of equipment used for the Range Safety Officer. The sky screen (either electronic or optical) provides a positive indication to the Range Safety Officer whenever the missile deviates from its planned trajectory. In operational use, one sky screen is used to monitor flight azimuth, and another is used to monitor vertical programming.

Sonic—Of or pertaining to sound, especially, in aviation contexts, to the speed of sound. (Sound travels at different speeds through different mediums, and it travels at different speeds under different conditions of temperature, etc. In air under standard sea-level conditions, sound travels at approximately 1,100 feet per second, or 750 m.p.h.)

Sound Boom—A loud report generated by a plane flying at sonic speed, and heard especially on the ground. (This phenomenon appears to be caused by the buildup of plane and engine noise as the remote speed of the plane corresponds with that of sound, the sound waves continuously reinforcing one another and creating around the aircraft a pressure field which, when suddenly dissipated, causes an explosive sound. The pilot of the plane does not hear the explosive sound because his speed outruns the speed of the sound.)

(Continued on page 170)

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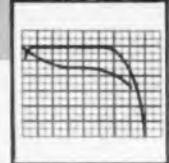
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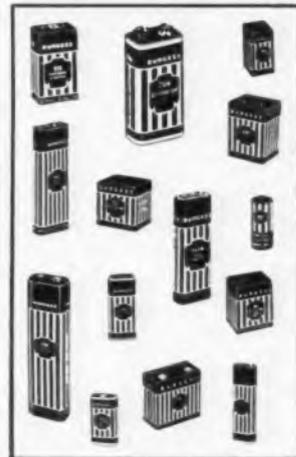
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Send for Engineering Data on Dry Batteries and Free Specifications Check Chart

BURGESS BATTERY COMPANY
 FREEPORT, ILLINOIS



BATTERIES

The following charts have been compiled by the National Electrical Manufacturers Assoc. On the left are original battery manufacturers; on the right are private brands available.

VOLTAGE	BRIGHT STAR	BURGESS	EVER-EADY	MALLORY (General)	MARATHON	PHILCO	NEDA NUMBER	RCA	RAY-O-VAC	USALITE	WESTERN AUTO	WIN-CHESTER	ZENITH	"A" and "B" BATTERY PACKS
1½, 90		4TZ60	729	M-425	5425	P364	425	VS064	425					
1½, 90		18GD60*			5426		426	VS045	426				Z28	
6, 67½							427		AB6145N					
9, 90		T6Z60P	727	M-428	5428		428	VS059	428				Z962	
9, 90		3G6D60*					429	VS051*	429					
7½, 75		TSZ50P	785	M-431	5431		430		AB982				Z775	
1½	262*	2FBP	W354	M-700	6700		700	VS101	700					
3	260	F2BP	W352	M-701	6701		701	VS100	701					
18, 22½		2156			6702		702	VS137*	702					
3		2F2H	W356		6703		703	VS136	703		3B-6705			
3	50-17	422	750	M-704	6704		704	VS134	704	1095				
4½	51-17	432	751	M-705	6705		705	VS142	705	1090				
4½	03-17	532	703	M-706	6706		706	VS133	706	1005				
3 to 22½	15-03	51565C	778	M-708	6708		708	VS131	708	1090		5216-8		
22½, 45		5308	W376	M-709	6709		709	VS112	709					
22½		4156	763	M-710	6710		710	VS102	A710			5115*		
22½, 45		Z30NX	W350	M-711	6711		711	VS114	711					
1½ to 4½		2370ST	761T	M-712	6712		712	VS130	712			3516		
1½ to 7½	51-03	5540	773	M-713	6713		713	VS029	713					
4½	03-17S	5360	781	M-714	6714		714	VS028	714			3217		
22½, 45		21308SC	W364F		6715		715	VS157	715					
22½, 45		10308SC	W363F	M-716	6716		716	VS127	A716					
22½, 45	30-95	2308PI	W365P	M-717	6717	P30D*	717	VS026	717			6518*		
3, 4½	71-17	2370PI	771	M-718	6718		718	VS030	718					
1½	20-60*	20F	740		6719		719	VS024*	719		3B-6122			
3		20F2			6720		720	VS025*	720					
3 to 22½	15-03	5156PI	768		6721		721	VS031	721		3B-6320*	5216		
300		U200	493		6722		722	VS093	722			922		
22½, 45		2308SC	W365F	M-723	6723		723	VS126	723					
22½, 45		10308SC PAR					724	VS127W	724					
6		F4X			6725		725		725		3B-6770			
22½, 45	30-60	10308PI	W363P	M-726	6726	P30F*	726	VS027*	726					
22½, 45		21308PI	W364P		6727	P30FL*	727		727					
1½	10M	2	950	M-118 or M-119	121	P930 or P907	13	VS036	31P or 51P	75LP	3B-6718 or 3B-6719	1550	Z2NL	
1½	11M	1	935	M-148 or M-150	111	C	14	VS035	11P	74	3B-6730	1311	27	
1½	59-1	Z	915	M-15F	170	P15 or P9	15	VS034	7R or 7LP	908	3B-6710	1711	28	
1½	464	4FH	735	M-900	491		900	VS106	900	6345	3B-6770	1605		
3		4F2H	W357	M-901	901		901	VS138	901					
6		4F4H	706	M-902	902		902	VS103	902	616				
7½	155	4F5H	715	M-903	903		903	VS139	903	720		5605		
9		4F6H	716	M-904	904		904	VS140	904					
1½	6 Ign.	6 Ign.	6 Ign.		66	6 Tel.*	905	VS006-S	6 Ign. S	6 Ign. S	3B-6916	6 Ign.		
1½	6 Tel.	6 Tel.	GL6	M-914	6-T	6 Tel.*	906	VS042C*	6 Tel. C	6T		6 Tel.		
6	146	S461	1461	M-907	640	P64	907	VS039	641	641	3B-6928	4615		
6	460	F4H	409	M-908	490R	P4F	908	VS040C	941	934	3B-6761	4812		
9		D6BP					909	VS132	909					
1½		N	W468	M-910F	131		910	VS073	716				N	
1½	6 Ind.	6 Ind.	6RR & Ind.		66R		911		6RR			6RR		
7½	156		1562		651		912					5615		
9	166*		1662		661		913					6615		
1½	6 Ign. C	6 Ign. C	6 Ign. C	M-914	66C		914	VS006C	6 Ign. C					
6	460S	F4BP	510S	M-915	915		915	VS407*	941 Screw	6345	3B-6761	6715S		
6	460	F4H	509	M-916	490RR		916		941RR					
6		F45C	510F		496C		917		941C					
6		TW1	731		M-918	896	918		918		3B-6767			
22½	12P	U15	412	M-211 or M-212	4215	P612	215	VS084	215			1915*		
4½			E233	TR-233R		P696	1300	VS400						
4							1301	VS311	1301					
4							1302	VS308	1302					
4½			2731				1303							
6		4D4	274		1400		1400							
5½							1401	VS310	1401					
5½							1402	VS307	1402					
9		P6M	226	M-1600	1600	P91	1600	VS300	1600*					
9, 6, 3		D6PI	2506	M-1601	1601		1601	VS301	1601					
9		2M6	246	M-1602 or M-1603	1602	P178	1602	VS305	1602		3B-6465			
9		D6	276	M-1603	1603	P88	1603	VS306	1603				Z276	
9		2U6	216	M-1604 or M-1605	1604		1604		1604					
9		M6	266		1605		1605							
9							1606	VS309	1606					
9							1607					6316		
9			2761		1608		1608							
9			2762		1609		1609							
4½				M-1610	1610		1610							
13½, 9		XX9	239	M-1900	1900		1900	VS304	1900					
-12,-21			2314*		2400*		2400							

INDUSTRIAL and SPECIAL PURPOSE

INDUSTRIAL and LANTERN

TRANSISTOR and OTHER

BATTERIES

The following charts have been compiled by the National Electrical Manufacturers Assoc. On the left are original battery manufacturers; on the right are private brands available.

FIRE- STONE	GAMBLE	GOOD- RICH	MONTE- WARD	SEARS	ARMY	NAVY	NEDA NUMBER	GENERAL DRY	OTHER	MAXIMUM DIMENSIONS IN INCHES			
										Length	Width	Overall Height	
							425	364°			3 ³ / ₁₆	2 ¹ / ₁₆	7 ¹ / ₁₆
				6305			426	318°			12 ³ / ₁₆	5 ³ / ₁₆	6 ¹ / ₁₆
				6406			427				7 ³ / ₁₆	1 ³ / ₁₆	2 ³ / ₁₆
							428	366°			9 ³ / ₁₆	2 ³ / ₁₆	3 ³ / ₁₆
							429				4 ¹ / ₁₆	3 ³ / ₁₆	6 ³ / ₁₆
							430				8 ¹ / ₁₆	4 ¹ / ₂	13 ³ / ₁₆
							431				8 ³ / ₁₆	3 ³ / ₁₆	2 ³ / ₁₆
							700	94°			2 ³ / ₁₆	1 ³ / ₁₆	4 ³ / ₁₆
					BA-205		701				2 ³ / ₁₆	1 ³ / ₁₆	4 ³ / ₁₆
							702				6 ³ / ₁₆	4 ¹ / ₁₆	3 ³ / ₁₆
							703				2 ¹ / ₁₆	2 ¹ / ₁₆	4 ¹ / ₁₆
							704				1 ³ / ₁₆	3 ⁴ / ₁₆	2 ³ / ₁₆
							705				2	3 ⁴ / ₁₆	2 ³ / ₁₆
							706				2 ¹ / ₁₆	3 ⁴ / ₁₆	3 ³ / ₁₆
							708	216°			4 ¹ / ₁₆	2 ¹ / ₁₆	3 ³ / ₁₆
					BA-36	19005	709	187°	Army 3309		4 ¹ / ₁₆	2 ³ / ₁₆	5 ³ / ₁₆
					BA-2	19033	710	103°			3 ¹ / ₁₆	2 ¹ / ₁₆	2 ³ / ₁₆
					BA-53		711	122°			3 ¹ / ₁₆	1 ³ / ₁₆	5 ³ / ₁₆
				5005	BA-27	19014	712	214°			4 ¹ / ₁₆	1 ³ / ₁₆	3 ³ / ₂
							713	208°			4 ¹ / ₁₆	3 ⁴ / ₁₆	3 ³ / ₁₆
							714	201°			2 ¹ / ₁₆	3 ⁴ / ₁₆	3 ⁴ / ₁₆
							715				8 ¹ / ₁₆	4 ¹ / ₁₆	7 ² / ₁₆
	17-295						716	181°			8 ¹ / ₁₆	4 ¹ / ₁₆	7 ³ / ₁₆
	17-282		70	6363			717	115°			8 ¹ / ₁₆	3 ³ / ₁₆	7 ³ / ₁₆
	43-305		83	6390			718	215°			4 ¹ / ₁₆	1 ³ / ₁₆	3 ³ / ₁₆
				6330°			719	15°			8 ¹ / ₁₆	3 ³ / ₁₆	7 ³ / ₁₆
				64	6342°		720	21°			11 ¹ / ₁₆	4	6 ³ / ₁₆
				85	6391°	BA-211/U	721	212°			4 ³ / ₁₆	2 ¹ / ₁₆	3
						BA-291	722	609°			2 ¹ / ₁₆	2 ³ / ₁₆	3 ³ / ₁₆
							723				8 ¹ / ₁₆	3 ⁴ / ₁₆	7 ³ / ₁₆
							724				8 ¹ / ₁₆	4 ¹ / ₁₆	7 ³ / ₁₆
							725				5 ³ / ₁₆	1 ³ / ₁₆	4 ³ / ₁₆
	43-295		73	6361			726	119°			8 ¹ / ₁₆	4 ¹ / ₁₆	7 ³ / ₁₆
			77	6360			727	121°			8 ¹ / ₁₆	4 ¹ / ₂	7 ³ / ₁₆
		32-909	23	4650	BA-30	19031	13	920°	Army 117	Advance 301	1 ³ / ₁₆	Diam.	2 ¹ / ₁₆
7C44		39-501	6	4659	BA-42		14	904°	Army 119	Advance 130	1 ¹ / ₁₆	Diam.	2
7C39	17-448		3211 or 1380°	4653	BA-58		15	900°	Army 119	Advance 130	1 ³ / ₁₆	Diam.	1 ³ / ₁₆
					BA-35	19010	900	952°	Army 119	Advance 130	2 ¹ / ₁₆	2 ¹ / ₁₆	4 ³ / ₁₆
					BA-225/U		901	95°			3 ³ / ₁₆	2 ¹ / ₁₆	6 ³ / ₁₆
					BA-222/U	19043	902	991°			8 ³ / ₁₆	2 ¹ / ₁₆	6 ³ / ₁₆
							903	942°			7 ¹ / ₁₆	4 ¹ / ₁₆	6 ³ / ₁₆
					BA-207/U	6F4	904	69°			8 ³ / ₁₆	4 ¹ / ₁₆	6 ¹ / ₁₆
	17-410		3250	4701			905	986°	Crosby 6119		2 ³ / ₁₆	Diam.	6 ³ / ₁₆
							906	978°			2 ³ / ₁₆	Diam.	6 ³ / ₁₆
708-174	17-415	39-514	3255	4700	BA-44 or BA-350°	X413	907	641°	Chickens Fire BA-43		10 ¹ / ₁₆	2 ³ / ₁₆	7 ¹ / ₁₆
7C16	17-440	39-510	3257	4702	BA-200/U		908	916°	Army 6119	Advance 4111	2 ¹ / ₁₆	2 ¹ / ₁₆	4 ³ / ₁₆
							909				4 ³ / ₁₆	2 ³ / ₁₆	3 ³ / ₁₆
							910	671°	Army 119	Advance 130	3 ⁴ / ₁₆	Diam.	1 ³ / ₁₆
					BA-23	A	911	977°			2 ³ / ₁₆	Diam.	6 ³ / ₁₆
							912				8	5 ¹ / ₁₆	7 ³ / ₁₆
					BA-221/U or BA-330°	B-4	913				7 ³ / ₁₆	5 ³ / ₁₆	7 ¹ / ₁₆
	17-410						914	986-C°			2 ³ / ₁₆	Diam.	6 ³ / ₁₆
	38-6761						915				2 ¹ / ₁₆	2 ¹ / ₁₆	4 ¹ / ₁₆
							916	923°			2 ¹ / ₁₆	2 ¹ / ₁₆	4 ³ / ₁₆
							917				2 ¹ / ₁₆	2 ¹ / ₁₆	4 ¹ / ₂
	17-441						918	993°			5 ³ / ₁₆	2 ³ / ₁₆	4 ³ / ₁₆
			86		BA-261/U		215	612°	Rayovac 211		1 ¹ / ₁₆	3 ⁴ / ₁₆	2
							1300	696°	Rayovac 6119		1 ¹ / ₁₆	Diam.	2
							1301				3 ⁴ / ₁₆	Diam.	1 ³ / ₁₆
							1302				3 ¹ / ₁₆	Diam.	1 ³ / ₁₆
							1303				2 ¹ / ₁₆	1 ³ / ₁₆	8 ¹ / ₁₆
							1400				2 ³ / ₁₆	2 ³ / ₁₆	7 ³ / ₁₆
							1401				3 ⁴ / ₁₆	Diam.	1 ³ / ₁₆
							1402				3 ¹ / ₁₆	Diam.	1 ³ / ₁₆
			96	6418			1600	91°			3 ¹ / ₁₆	1 ¹ / ₁₆	1 ³ / ₁₆
				6420			1601	89°			8	2 ³ / ₁₆	1 ³ / ₁₆
			92				1602	178°	Rayovac 215		1 ³ / ₁₆	1 ³ / ₁₆	2 ³ / ₁₆
	38-6465		93	6419			1603	88°	Rayovac 215		2 ³ / ₁₆	2 ³ / ₁₆	3 ³ / ₁₆
							1604	179°	Rayovac 215		1	1 ¹ / ₁₆	1 ³ / ₁₆
							1605				1 ¹ / ₁₆	1 ⁴ / ₁₆	2 ³ / ₁₆
							1606				3 ⁴ / ₁₆	Diam.	1 ³ / ₁₆
							1607				6 ¹ / ₁₆	1 ¹ / ₁₆	2 ³ / ₁₆
							1608				2 ³ / ₁₆	1 ⁴ / ₁₆	7 ³ / ₁₆
							1609				2 ¹ / ₁₆	1 ³ / ₁₆	8 ¹ / ₁₆
							1610		Rayovac 215		1 ³ / ₁₆	1 ³ / ₁₆	2 ³ / ₁₆
	A17-277		95				1900	177°			1 ³ / ₁₆	1 ³ / ₁₆	2 ³ / ₁₆
							2400				1 ³ / ₁₆	1 ³ / ₁₆	2 ³ / ₁₆

"A" and "B" BATTERY PACKS

INDUSTRIAL and SPECIAL PURPOSE

INDUSTRIAL and LANTERN

TRANSISTOR and OTHER

BATTERIES

The following charts have been compiled by the National Electrical Manufacturers Assoc. On the left are original battery manufacturers; on the right are private brands available.

VOLTAGE	BRIGHT STAR	BURGESS	EVER-EADY	MALLORY (General)	MARATHON	PHILCO	NEDA NUMBER	NCA	RAY-O-VAC	USALITE	WESTERN AUTO	WIN-CHESTER	ZENITH	"A" and "B" BATTERY PACKS	INDUSTRIAL and SPECIAL PURPOSE	INDUSTRIAL and LANTERN	TRANSISTOR and OTHER
1½, 90		4TZ60	729	M-425	5425	P364	425	VS064	425								
1½, 90		18GD60*			5426		426	VS045	426				Z28				
6, 67½							427		AB6145N								
9, 90		T6Z60P	727	M-428	5428		428	VS059	428				Z962				
9, 90							429	VS051*	429								
9, 90		3G6D60*					430		AB982								
7½, 75		TSZ50P	785	M-431	5431		431	VS060	431				Z775				
1½	262°	2FBP	W354	M-700	6700		700	VS101	700								
3	260	F28P	W352	M-701	6701		701	VS100	701								
18, 22½		2156			6702		702	VS137*	702								
3		2F2H	W356		6703		703	VS136	703		3B-6705						
3	50-17	422	750	M-704	6704		704	VS134	704	1095							
4½	51-17	432	751	M-705	6705		705	VS142	705	1090							
4½	03-17	532	703	M-706	6706		706	VS133	706	1005							
3 to 22½	15-03	5156SC	778	M-708	6708		708	VS131	708	1090			5216-B				
22½, 45		5308	W376	M-709	6709		709	VS112	709								
22½		4156	763	M-710	6710		710	VS102	A710				5115*				
22½, 45		Z30NX	W350	M-711	6711		711	VS114	711								
1½ to 4½		Z370ST	761T	M-712	6712		712	VS130	712				3516				
1½ to 7½	51-03	5540	773	M-713	6713		713	VS029	713								
4½	03-17S	5360	781	M-714	6714		714	VS028	714				3217				
22½, 45		21308SC	W364F		6715		715	VS157	715								
22½, 45		10308SC	W363F	M-716	6716		716	VS127	A716								
22½, 45	30-95	Z308PI	W365P	M-717	6717	P30D*	717	VS026	717				6518*				
3, 4½	71-17	Z370PI	771	M-718	6718		718	VS030	718								
1½	20-60*	20F	740		6719		719	VS024*	719		3B-6122						
3		20F2			6720		720	VS025*	720								
3 to 22½	15-03	5156PI	768		6721		721	VS031	721		3B-6320*		5216				
300		U200	493		6722		722	VS093	722				922				
22½, 45		Z308SC	W365F	M-723	6723		723	VS126	723								
22½, 45		10308SC PAB					724	VS127W	724								
6		F4X			6725		725		725		3B-6770						
22½, 45	30-60	10308PI	W363P	M-726	6726	P30F*	726	VS027*	726								
22½, 45		21308PI	W364P		6727	P30FL*	727		727								
1½	10M	2	950	M-128 or M-129	121	P920 or P907	13	VS036	3LP or 5LP	75LP	3B-6798 or 72-4752	1550	Z2NL				
1½	11M	1	935	M-148B or G-137	111	C	14	VS035	11P	74	3B-6730	1311	Z7				
1½	59-1	Z	915	M-15F	170	P15 or P9	15	VS034	7R or 7LP	908	3B-6710	1711	Z8				
1½	464	4FH	735	M-900	491		900	VS106	900	6345	3B-6770	1605					
3		4F2H	W357	M-901	901		901	VS138	901								
6		4F4H	706	M-902	902		902	VS103	902	616							
7½	155	4F5H	715	M-903	903		903	VS139	903	720			5605				
9		4F6H	716	M-904	904		904	VS140	904								
1½	6 Ign.	6 Ign.	6 Ign.		66	6	905	VS006-5	6 Ign. 5	6 Ign.	3B-6916	6 Ign.					
1½	6 Tel.	6 Tel.	GL6	M-914	6-T	6 Tel.*	906	VS042C*	6 Tel. C	6T		6 Tel.					
6	146	S461	1461	M-907	640	P64	907	VS039	641	641	3B-6928	4615					
6	460	F4H	409	M-908	490R	P4F	908	VS040C	941	934	3B-6761	4812					
9		D6BP					909	VS132	909								
1½		N	W468	M-910F	131		910	VS073	716								
1½	6 Ind.	6 Ind.	6RR & Ind.		66R		911		6RR				6RR				
7½	156		1562		651		912						5615				
9	166*		1662		661		913						6615				
1½	6 Ign. C	6 Ign. C	6 Ign. C	M-914	66C		914	VS006C	6 Ign. C								
6	460S	F4BP	510S	M-915	915		915	VS407*	941 Screw	6345	3B-6761	6715S					
6	460	F4H	509	M-916	490RR		916		941RR								
6		F4SC	510F		496C		917		941C								
6		TW1	731	M-918	896		918		918		3B-6767						
22½	12P	U15	412	M-213 or TR-233R	4215	P612	215	VS084	215				1915*				
4½		E233				P696	1300	VS400									
4							1301	VS311	1301								
4							1302	VS308	1302								
4½		2731					1303										
6		4D4	274		1400		1400										
5½							1401	VS310	1401								
5½							1402	VS307	1402								
9		P6M	226	M-1600	1600	P91	1600	VS300	1600*								
9, 6, 3		D6PI	2506	M-1601	1601		1601	VS301	1601								
9		2M6	246	M-1602	1602	P178	1602	VS305	1602		3B-6465						
9		D6	276	M-1603	1603	P88	1603	VS306	1603								
9		2U6	216	M-1604 or TR-1608	1604		1604		1604								
9		M6	266		1605		1605										
9							1606	VS309	1606								
9							1607										
9			2761		1608		1608						6316				
9			2762		1609		1609										
4½				M-1610	1610		1610										
13½, 9		XX9	239	M-1900	1900		1900	VS304	1900								
-12,-21			2314*		2400*		2400										

BATTERIES

The following charts have been compiled by the National Electrical Manufacturers Assoc. On the left are original battery manufacturers; on the right are private brands available.

FIRE- STONE	GAMBLE	GOOD- RICH	MORTG. WAND	SEARS	ARMY	NAVY	MEDA NUMBER	GENERAL DRY	OTHER	MAXIMUM DIMENSIONS IN INCHES			
										Length	Width	Overall Height	
							425	364*			3 ⁷ / ₈	2 ⁷ / ₈	7 ¹ / ₈
				6305			426	318*			1 ² / ₈	5 ¹ / ₈	6 ³ / ₈
				6406			427				7 ¹ / ₈	1 ¹ / ₈	2 ³ / ₈
							428	366*			9 ⁷ / ₈	2 ⁵ / ₈	3 ³ / ₈
							429				4 ¹ / ₈	3 ³ / ₈	6 ⁵ / ₈
							430				8 ¹ / ₈	4 ¹ / ₈	13 ¹ / ₈
							431				8 ⁵ / ₈	3 ³ / ₈	2 ⁷ / ₈
							700	94*			2 ⁷ / ₈	1 ³ / ₈	4 ³ / ₈
					BA-205		701				2 ¹ / ₈	1 ³ / ₈	4 ³ / ₈
							702				6 ⁵ / ₈	4 ¹ / ₈	3 ³ / ₈
							703				2 ¹ / ₈	2 ¹ / ₈	4 ³ / ₈
							704				1 ⁷ / ₈	3 ⁶ / ₈	2 ³ / ₈
							705				2	3 ⁶ / ₈	2 ¹ / ₈
							706				2 ¹ / ₈	7 ⁶ / ₈	3 ³ / ₈
							708	216*			4 ¹ / ₈	2 ¹ / ₈	3 ³ / ₈
					BA-36	19005	709	187*			4 ¹ / ₈	2 ⁵ / ₈	5 ⁵ / ₈
					BA-2	19033	710	103*	4102 3102		3 ¹ / ₈	2 ¹ / ₈	2 ⁷ / ₈
					BA-53		711	122*			3 ¹ / ₈	1 ⁷ / ₈	5 ¹ / ₈
					BA-27	19014	712	214*			4 ¹ / ₈	1 ¹ / ₈	3 ¹ / ₈
				5005			713	208*			4 ¹ / ₈	7 ⁶ / ₈	3 ³ / ₈
							714	201*			2 ¹ / ₈	5 ⁶ / ₈	3 ¹ / ₈
							715				8 ¹ / ₈	4 ³ / ₈	7 ⁷ / ₈
17-295							716	181*			8 ¹ / ₈	4 ⁵ / ₈	7 ¹ / ₈
17-282			70	6363			717	115*			8 ¹ / ₈	3 ³ / ₈	7 ⁵ / ₈
43-305			83	6390			718	215*			4 ⁶ / ₈	1 ⁵ / ₈	3 ¹ / ₈
				6330*			719	15*			8 ¹ / ₈	3 ³ / ₈	7 ³ / ₈
			64	6342*			720	21*			11 ¹ / ₈	4	6 ³ / ₈
			85	6391*	BA-211/U		721	212*			4 ³ / ₈	2 ¹ / ₈	3
					BA-291		722	609*			2 ¹ / ₈	2 ⁵ / ₈	3 ⁷ / ₈
							723				8 ¹ / ₈	3 ¹ / ₈	7 ⁵ / ₈
							724				8 ¹ / ₈	4 ¹ / ₈	7 ³ / ₈
							725				5 ⁵ / ₈	1 ¹ / ₈	4 ³ / ₈
43-295			73	6361			726	119*			8 ¹ / ₈	4 ³ / ₈	7 ³ / ₈
			77	6360			727	121*			8 ¹ / ₈	4 ¹ / ₈	7 ⁵ / ₈

"A" and "B" BATTERY PACKS

INDUSTRIAL and SPECIAL PURPOSE

X and C band



RADAR TEST SET

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Sonic, Super (Supersonic) — Faster than sonic speed, or the speed of sound.

Squib — A small pyrotechnic device which may be used to fire the igniter in a rocket or for some similar purpose. Not to be confused with a detonator which explodes.

"S.R.O." — The abbreviation for Supervisor of Range Operations. He is the overall director and coordinator for the Range during a launching operation, and coordinates activity in the Operations Room of Central Control, Cape Canaveral.

Stratosphere — A calm region of the upper atmosphere characterized by little or no temperature change with a change in altitude. The stratosphere is separated from the lower atmosphere, or troposphere, by the tropopause. An important part of the stratosphere is ozone, which plays a vital role in the phenomenon of selective absorption, and seems to have a significant correlation with surface weather conditions. The stratosphere is free from the clouds and convective currents of the troposphere. See TROPOPAUSE and TROPOSPHERE.

Surveillance — The operations of visual and radar searching from aircraft, ground and ship stations to determine that the Range is free of shipping, other aircraft traffic, etc., and that safe conditions exist to permit missile launching. Also, the subsequent act of keeping the missile itself (as well as the Range) under the watchful eye of the Range Safety Officer, through optical or electronic means, to assure that the missile travels its prescribed course or is destroyed.

Telemetry System — A method of taking measured values within the missile and transmitting these values electronically to a ground station. The information received at the ground station can be used to evaluate the internal performance of a missile in flight.

Telemetry — Telemetry is the radio link between a missile and the ground station used to transmit information described (above) under telemetering system.

Test Stand — A stand on which a jet engine, rocket engine, or the

(Continued on page 172)

SMALLER, LIGHTER PAM-FM SYSTEM USES LESS POWER; TRANSMITS BETTER

*A report to Engineers
and Scientists from
Lockheed Missile Systems —
where expanding missile
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promising careers*

Lockheed Missile Systems engineers and scientists have developed a PAM-FM telemetering system that weighs less, is smaller, uses less power, yet operates much more efficiently than conventional systems. The new transistorized time-division multiplex system is being tested for use in monitoring future flights in connection with the Division's major missile system projects.

Lockheed holds two top U.S. defense super-priority programs: The Navy Polaris IRBM, and the Air Force reconnaissance satellite. In addition, the Q-5 target ramjet and X-7 test missile programs have been expanded. Qualified engineers and scientists who join our Division at this stage in its development are thus assured better opportunities to move ahead rapidly.

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Dr. J. W. Muehner, Telecommunications Department Manager, left, discusses expanded packaging of the PAM-FM system with Daniel Hochman, Development Engineer, right.





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(Continued from page 170)

like is mounted for testing and measuring thrust.

Test Vehicle—A rocket or jet powered craft used in testing components of proposed missile systems.

Theodolite—Basically, an accurate surveyor's transit. On the Range a conventional transit or theodolite is ill adapted to recording missile position during flight. Accordingly, the theodolites for range use have evolved into cine-theodolites (see "ASKANIA") and photo-theodolites. The latter differ from cine-theodolites in that the cine camera is replaced by a precision, fixed (glass) plate camera in which a large field is viewed and multiple exposures are made on the arc plate of the missile as it moves through the field of view. Whereas a cine-theodolite is a tracking instrument, the photo-theodolite is locked in position during the photographic recordings.

Throat—In rocket and jet engines, the most constricted section of an exhaust nozzle. At the throat gas flow velocities (for supersonic flow rates) always equal sonic velocity. After the throat, the nozzle expands and flow velocities increase to supersonic values.

Thrust—The driving force exerted on a rocket or guided missile by its jet or rocket engine or engines, or other propulsive device or force.

Thrust Decay—When a rocket motor burns out or is cut off, propulsive thrust does not fall to zero instantaneously, but progressively declines over some fraction of a second. This graduated reduction and loss of thrust is known as "thrust decay."

Transponder—An electronic device that receives a challenging signal and automatically transmits a response. The transponder consists of a receiver, which receives the signal impulses, and a responder (or transmitter) that returns signal impulses to the interrogator-responder (e.g., DOVAP).

Tropopause—The boundary or transition zone between the troposphere and the stratosphere.

Troposphere—The lower layer of the earth's atmosphere, extending from the surface of the

earth to an altitude of 10 miles. Although the composition of the air remains more or less constant, its density decreases rather rapidly with altitude; 75% of the atmosphere's weight is found in the troposphere.

T-Time—The time of lift-off of a missile from its launch pad. Prior to launching, the expected time of first motion is not known and is conventionally termed "X" time, that is, unknown time. Since first motion occurs at a definite time after lift-off, it is designated "T" time or "pulse" time. (However, this convention is not always maintained; "T" and "X" may be used interchangeably.)

Tumbling—An unsatisfactory attitude situation in which the vehicle continues on its flight, but turns end-over-end about its center of gravity with its longitudinal axis remaining in the plane of flight.

Turbojet—A jet motor whose air is supplied by a turbine-driven compressor, the turbine being activated by exhaust gases from the motor.

Umbilical Cord—A cable fitted to the missile with a quick disconnect plug, through which missile equipment is controlled and tested while the vehicle is still attached to launching equipment. The umbilical cord is detached at or just prior to lift-off of the missile.

Venturi Tube—A short tube with varying cross sections and a constricted throat. Flow through the tube causes an increase in flow velocity at the throat which, in turn, results in diminished pressure within the fluid at the throat. The venturi tube is used in measuring airspeed, and advantage has been taken of the diminished pressure at the throat to operate a gyroscope or other device.

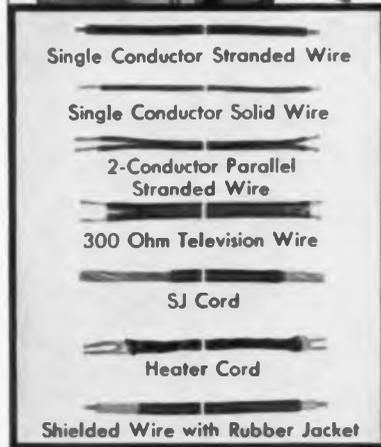
Warhead—Normally, that part of a missile containing an explosive, chemical, or other charge intended to damage the enemy. However, warheads of missiles being tested at AFMTC contain no explosives or other lethal charges. Instead, this section of the vehicle is devoted completely to instrumentation equipment (for recording performance of the missile under test).

(This glossary was assembled by the Information Office, Air Force Missile Test Center, Cape Canaveral, Fla.)

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for finishing wire leads

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A new collecting device is now available for use on the popular Artos CS-6 wire-measuring, cutting and stripping machine. Illustration shows the new collecting trough (AE-478). Upper trough collects wire leads up to 60 inches long, then empties into the lower trough after wire has been cut, thus saving operator time.

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- 225 Air-Marine Motors, Inc.—Motors, blowers and fans
- 70 Alford Manufacturing Co., Inc.—Micro-wave components
- 242 Allen-Bradley Corp.—Hot molded composition potentiometers
- 163 Alpha Wire Corporation—Wire & tubing
- 88 American Lava Corp.—Technical ceramics
- 124 AMP Incorporated—Wire terminating techniques
- 97 Ampere Electronic Corp.—Replacement tubes
- 209 Amperite Co., Inc.—Relays & regulators
- 18 Amphel Electronics Corp.—MS "E" connector
- 100 Andrew Corp.—Antenna systems
- 195 Anton Machine Works—Tube parts
- 152 Arnold Engineering Company—Alnico magnets
- 24 Arcon Steel Corp.—Nickel-iron magnetic alloy hand tools
- 47 Arcon Engineering Co.—Automatic wire machines
- 30 Astron Corp.—Capacitors and RF noise filters
- 93 Audio Devices Inc.—Magnetic tape
- 117 Audio Devices Inc., Rectifier Division—Silicon rectifier
- 110 Automatic Mfg. Div. of General Instrument Corp.—Silicon rectifiers
- 238 Avion Division of ACP Industries—Communication amplifier
- 192 Ballantine Laboratories, Inc.—Electronic voltmeters
- 95 Barker & Williamson, Inc.—Sub-miniature ferrites
- 12 Behlman Engineering Co.—Electronic AC Power Source
- 198 Bell Aircraft Corp.—Engineering personnel
- 146 Bird Electronic Corp.—R. F. absorbers & meters
- 42 Birabach Radio Co., Inc.—TEFLON wire
- 5 Brecher Corp.—Cooling and/or retention devices
- 223 Brlwax Corp.—Painting compounds
- 136 Brlwax-Knox Co.—Microwave towers
- 29 Bomac Laboratories, Inc.—Microwave engineering & developing services
- 40 Bomac Laboratories, Inc.—Microwave tubes
- 185 Borg Equip. Div., George W. Borg Corp.—Electronic components
- 189 Borg Equip. Div., George W. Borg Corp.—Microfilms
- 211 Borg Equip. Div., George W. Borg Corp.—Multi-turn precision potentiometers
- 108 Boston Insulated Wire & Cable Co.—Wire and cable
- 22 Bourns Laboratories, Inc.—Potentiometers
- 222 Bruno-New York Ind. Corp.—"Pig-tailing" machine
- 161 Brush Instruments Div. of Clevite Corp.—Linear recording systems
- 201 Bulova Watch Co., Electronics Div.—Bandpass filter
- 24 Burgess Battery Co.—Dry batteries
- 122 Burnell & Co., Inc.—Adjustable toroids
- 154 Busmann Mfg. Div. McGraw-Edison Co.—Fuses & fuseholders
- 86 Camera Equipment Co., Inc.—Videcon support equipment
- 127 Cannon Electric Co.—Connectors
- 43 CELCO Constantine Engineering Labs. Co.—Yokm
- 203 Chicago Standard Transformer Corp.—Transformers
- 5 Chicago Telephone Supply Corp.—Precision resistors
- 120 Cinch Manufacturing Corp.—Edge connectors
- 14 Cleveland Container Corp.—
- 124 Clevite Elec. Comp. Div. of Clevite Corp.—Magnetic heads
- 110 Clevite Transistor Prods., A Div. of Clevite Corp.—Glass diodes & power transistors
- 143 Clifton Precision Prod. Co., Inc.—Synchro

- 226 Columbian Carbon Co., Mepico Color Unit—Synthetic iron oxides for ferrites
- 62 Communication Accessories Company—Toroidal inductors, filters, transformers, magnetic amplifiers
- 53 Communication Accessories Company—Toroidal inductors, L C filters
- 54 Communication Accessories Company—Magnetic amplifiers
- 85 Communication Accessories Company—Laminated transformers
- 170 Corning Glass Works—Glass resistors
- 41 Curtiss Wright Corp.—Thermal time delay relay

- 196 Cutler-Hammer Inc. Synchronous timers
- 69 Dale Products, Inc.—Miniature power resistors
- 20 Dateyane, A Div. of Berndt-Bach, Inc.—Electronic-optical recording equipment
- 150 DeJur-Amaro Corp.—Single turn precision potentiometers
- 140 Delec Radio Div. GM Corp.—High power transistors
- 503 Department of Economic Development, Augusta, Maine Industrial development

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| 187 | Douglas Microwave Co.—Microwave components | 149 | Fairchild Controls Corp., Components Div.—Gyros & transducers | 139 | General Transistor Corp.—Bilateral transistors |
| 99 | Driver Co., Wilbur B.—Custom alloys | 202 | Ferroscube Corp. of America—Threaded ferrite slugs | 108 | General Transistor Corp.—Bobbinless resistors |
| 36 | DuMont Labs., Allen B.—Instrument Div.—General purpose oscilloscope | 164 | Filtora, Inc.—Sub-miniature relays | 144 | Gertch Products, Inc.—Ratio transformers |
| 5 | Eastern Precision Resistor Corp.—Encapsulated precision resistors | 162 | Filmica Corp., Subsidiary of American Cyanamid—Copper-clad laminates | 239 | Graphic Systems, Inc.—Visual control board |
| 145 | Eisler Engineering Co., Inc.—Vertical spot welder | 153 | F. R. Machine Works, Inc.—Ratometer | 15 | Graybar Electric Co.—Electric equipment |
| 191 | Eitel-McCullough, Inc.—Ceramic tubes | 243 | Freed Transformer Corp.—Transformers | 234 | Hackensack Cable Corp.—Special cables |
| 49 | Electro-Motive Mfg. Co., Inc.—Thermion capacitors | 309 | Fogg, Stewart K.—Engineering personnel consultant | 44 | Hallamere Electronics Co.—"Ruggedized" CCTV camera |
| 193 | Electronic Fabricators, Inc.—Miniature capacitors | 101 | General Chemical Div., Allied Chemical—Electronic grade chemicals | 190 | Health Company—Electronic analog computer kit |
| 94 | Electronic Tube Corp.—Oscilloscopes | 105 | General Controls, Elec. Controls Div.—Pot data file | 214 | Hermetic Seal Corporation—Hermetic seals |
| 46 | Electro-Voice, Inc., EV Instruments Div.—Sound chamber | 98 | General Electric Corp.—Triode UHF amplifier | 109 | Hoffman Electronics Corp., Semiconductor Div.—Diffused junction silicon semiconductors |
| 31 | Elgin National Watch Co., Elec. Div.—Sensitive relays | 34 | General Electric Corp.—Silicon unijunction transistor | 223 | Horlick Co., Inc., William L.—Motor generator |
| 6 | Engelhard Industries, Inc.—Slip rings | 35 | General Electric Corp.—Voltage regulators | 79 | Houston Fearless Corp.—Remote control TV camera heads |
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| 8 | Engelhard Industries, Inc.—Gas purifier | 147 | General Hermetic Sealing Corp.—Hermetic sealing | 27 | Hughes Aircraft Company, Hughes Semiconductors—Diodes, rectifiers, capacitors, transistors |
| 122 | Engineered Electronics Co.—Transistorized circuits | | | 28 | Hughes Products, Electron Tube Division—Storage tubes |

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| 28 | Hughes Products, Electron Tube Division—Storage tubes |
| 29 | Hughes Products—Storage type oscilloscope |
| 235 | Hughey & Phillips, Inc.—Tower lighting control unit |
| 216 | Industrial Test Equipment Co.—Impedance comparators |
| 33 | Institute of Radio Engineers—Standard reference work on transistors |
| 82 | Instruments for Industry, Inc.—Wide band amplifiers |
| 215 | International Electronic Research Corp.—Heat-dissipating tube shields |
| 112 | International Rectifier Corp.—Semiconductor rectifiers |
| 24 | International Reminiscence Co.—Molded metal film resistors |
| 218 | Interelectronics Corp.—Voltage regulated power supply |
| 212 | Jennings Radio Mfg. Corp.—Circuit breaker |
| 200 | Jerrold Electronics Corp.—Precision R-matching equipment |
| 72 | JPD Electronics Corp.—Variable trimmer capacitors |
| 25 | Johnson Co., E. F.—Connectors, sockets, pilot lights and variable capacitors |
| 205 | Jones Div., Howard B., Cinch Mfg. Corp.—Barrier terminal strip |
| 119 | Kable Engineering Co.—Semiconductor production machinery |
| 116 | Kable Engineering Co.—Transistor production machinery |
| 219 | Kay Electric Co.— |
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| 236 | Kenyon Transformer Co., Inc.—Line voltage regulator |
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| 198 | Klein & Sons, Mathias—Pliers |
| 65 | Kleinachmidt Laboratories, Inc.—Paper printers and reprocessor teletypewriters |
| 217 | Kulka Electric Corp.—Terminal blocks |
| 63 | Lavoie Laboratories, Inc.—Electronic counters and frequency meters |
| 66 | Lavoie Laboratories, Inc.—Robotester |
| 213 | Lamtex Industries, Inc.—Fiberglass-epoxy laminated tubing |
| 19 | Larco Electronics, Inc.—Terminals & hardware catalog |
| 207 | Lifschultz Post Freight—Freight forwarding |
| 170 | Ling Electronics, Inc.—Vibration testing systems |
| 502 | Lockheed Missile Systems Div. of Lockheed Aircraft Corp.—Engineering personnel |

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- 151 Magnetic Metals Co. — Magnetic core laminations
- 152 Magnetic Shield Div. Perfection Mica Co. — Magnetic shielding
- 504 Martin Company — Engineering personnel
- 52 Measurements A McGraw-Edison Div. — vacuum tube voltmeter
- 230 Measurements A McGraw-Edison Div. — Pulse generator
- 507 Melpar Incorporated — Engineering personnel

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- 45 Microtran Company, Inc. — Miniature transistor transformers
- 121 Motorola Semiconductors, Motorola, Inc. — Transistors and rectifiers
- 137 Myralox Corporation — High temperature ceramic plastic insulation
- 37 Narda Ultrasonics Corp. The — Industrial-size ultrasonic cleaner
- 190 National Lead Co. — Solder
- 179 National Vulcanized Fibre Co. — Vulcanized fibre and nylon
- 181 Nemo-Clarke Co. — FM/FM and PWM/FM receivers
- 221 New Hermes Engraving Machine Corp. — Engraving machines
- 228 North Hills Electric Co., Inc. — Constant current supply
- 48 Onan & Sons, Inc., D. W. — Emergency power plants
- 145 Oster Manufacturing Co., John — Servo motor tach generators
- 111 Pacific Semiconductors, Inc. — Subminiature silicon rectifiers
- 1 Packard-Bell Corp. — Mission and traffic control package
- 205 Panduit Corp. — Wiring ducts and components
- 204 P.B.R. Manufacturing Co. — Scope dolly
- 53 Pentac Laboratories, Inc. — Medium power beam pentode
- 229 Permag Corp. — Magnets
- 90 Phelps Dodge Copper Products — High frequency cables
- 125 Philco Corp., Lansdale Tube Co. Div. — Microalloy translator
- 132 Philco Corp., Lansdale Tube Co., Inc. — Power translators
- 241 Philrad Electronics Corp. — Microwave test equipment
- 197 Potter Instrument Co., Inc. — Data processing components and systems
- 142 Premier Instrument Corp. — Waveguide components
- 79 Radiation Inc. — Instrumentation systems
- 92 Radio Corporation of America — Transistorized turntable equalizing pre-amplifier
- 216 Radio Corporation of America — Transistors
- 47 Radio Corporation of America — Power tubes
- 71 Radio Corporation of America — Test equipment
- 122 Radio Corporation of America — Defense electronic units
- 104 Radio Materials Company — Ceramic capacitors
- 63 Radio Receptor Co., Subsidiary General Instrument Corp. — Selenium rectifiers
- 115 Radio Receptor Co., Subsidiary General Instrument Corp. — Silicon diodes
- 99 Raytheon Manufacturing Co., Commercial Equip. Div. — Portable and rack-mounted microwave equipment
- 210 Raytheon Manufacturing Co., Microwave & Power Tube Div. — Klystron & magnetron oscillators
- 301 Raytheon Manufacturing Co., Semiconductor Div. — Computer translators
- 127 Raytheon Manufacturing Co., Semiconductor Div. — Silicon transistors
- 105 Raytheon Manufacturing Co., Semiconductor Div. — Diodes and rectifiers
- 73 Red Bank Division, Bendix Aviation Corp. — Electron tubes
- 139 Red Bank Division, Bendix Aviation Corp. — Semiconductors
- 77 Reeves Soundcraft Corp. — Magnetic tape
- 237 Relay Sales, Inc. — Relays

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FIRM

FIRM ADDRESS

CITY OR TOWN ZONE STATE

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PERMIT NO. 36

NEW YORK, N. Y.

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NO POSTAGE STAMP NECESSARY IF MAILED IN UNITED STATES

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P. O. BOX 73, VILLAGE STATION
NEW YORK 14, N. Y.



Please send me further information on the items I have circled below.

JUNE 1958-4

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- 165 Reliance Mfg Co., Inc.—Misc (transistor mounting) washers
- 37 Ribcom Manufacturing Co., Electronics Div.—Transistorized direct-coupled instrumentation d-c amplifier
- 81 Rehn Manufacturing Corp.—Communication towers
- 150 Sangamo Electric Company—High voltage capacitors
- 181 Salon International de la Piece detachee Electronique—International Electronic Components Exhibition
- 113 Sarkes Tarsian Inc., Rectifier Div.—Silicon rectifiers
- 65 Sarkes Tarsian Inc., Broadcast Div.—Video level control unit
- 81 Sanlectro Corp.—Jacks & plugs
- 160 Shielding Inc.—RF shielding enclosure
- 164 Spectral Electronics Corp.—10-turn precision potentiometer
- 128 Sprague Products Co.—Transistor circuit simulator
- 133 Sprague Electric Co.—Surface barrier transistors
- 96 Sprague Electric Co.—Carbon film resistors
- 64 Stackpole Carbon Co.—Low cost switches
- 81 Stainless, Inc.—Towers
- 229 Stewart Co., F. W.—Flexible shafting
- 186 Superior Steatite & Ceramic Corp.—Steatite, ceramic and lava insulators
- 503 Sylvania Electric Corp., Waltham Laboratories—Engineering personnel
- 164 Systronk Instruments, Inc.—Yokes
- 516 System Development Corp.—Engineering personnel
- 13 Tamar Electronics—Transmission line systems
- 118 Technitrol Engineering Company—Test equipment
- 22 Telechrome Mfg. Corp.—Telemetry transmitters
- 240 Telerad Mfg. Corp.—Microwave components, acceleration switch & S-band beacon
- 185 Teletronics Laboratories, Inc.—Transistorized modular frequency meter
- 76 Tele-Vue Towers, Inc.—Communications towers
- 171 Tenselite Insulated Wire Co., Inc.—TEFLON tape
- 124 Texas Instruments Incorporated—Diffused base transistors
- 196 Texas Instruments Incorporated—Computer diodes
- 107 Texas Instruments Incorporated—Diffused junction silicon rectifiers
- 114 Thermoseal, Inc.—Diffused junction silicon power diodes
- 38 Tinnerman Products, Inc.—Speed nuts
- 187 Tower Construction Co.—Microwave system towers
- 134 Transitron Corp.—Transistors
- 180 Trio Laboratories, Inc.—Miniature electronic instruments
- 136 Tung-Sol Electric Co., Inc.—Germanium PNP transistors
- 31 Tung-Sol Electric Co., Inc.—Electron tubes
- 159 UAC Electronics, Universal Transistor Prod. Corp.—Transistorized power supplies
- 135 United Aircraft Products, Inc.—Heat dissipating cold plate
- 199 United States Gasket Plastics Div. of Garlock—TEFLON, KEL-Y
- 4 United Transformer Co.—Miniaturized transformer components
- 21 University Loudspeakers, Inc.—Loudspeakers & speaker systems
- 172 Varo Mfg. Co., Inc.—Precision airborne & ground electronic equipment
- 178 Victoreen Instrument Company—Deposited carbon resistors, voltage regulators
- 174 Ward Leonard Electric Co.—Rheostats & relays
- 231 Washington Aluminum Co.—Antennas and cabinets
- 19 Western Gear Corporation—Miniature motor
- 163 Westinghouse Electric Corp.—Vidicon tube
- 221 Williams & Co., C. K.—Ferric oxides, magnetic iron oxides and powders
- 84 Wind Turbine Co.—Tower engineering bulletin
- 224 X-Acto, Inc., A HandiCraft Tools, Inc. Div.—Surgically sharp knives
- 60 Zippertubing Co.—Plastic tubing

Table of Component Indicators

AB Supports, Antenna	HC Crystal Holder	RL Rowl Assemblies
AM Amplifiers	HD Air Conditioning Apparatus	RP Rope and Twine
AS Antenna Assemblies	ID Indicating Devices	RR Reflectors
AT Antennae	IL Insulators	RT Receiver and Transmitter
BA Battery, primary type	IM Intensity Measuring Devices	S Shelters
BB Battery, secondary type	IP Indicators, Cathode Ray Tube	SA Switching Devices
BZ Signal Devices, Antenna	J Junction Devices	SB Switchboards
C Control Articles	KY Keying Devices	SG Generators, Signal
CA Commutator Assemblies, Sonar	LC Tools, Line Construction	SM Simulators
CB Capacitor Bank	LS Loudspeakers	SN Synchronizers
CG Cables and Transmission Line, R. F.	M Microphones	ST Straps
CK Crystal Kits	MD Modulators	T Transmitters
CM Comparators	ME Meters, Portable	TA Telephone Apparatus
CN Compensators	MK Maintenance Kits or Equipments	TD Timing Devices
CP Computers	ML Meteorological Devices	TF Transformers
CR Crystals	MT Mountings	TG Positioning Devices
CU Coupling Devices	MX Miscellaneous	TH Telegraph Apparatus
CV Converters (electronic)	O Oscillators	TK Tool Kits or Equipment
CW Covers	OA Operating Assemblies	TL Tools
CX Cords	OC Oceanographic Devices	TN Tuning Units
CY Cases	OS Oscilloscope, Test	TS Test Equipment
DA Antenna, Dummy	PD Prime Drivers	TT Teletypewriter and Facsimile Apparatus
DT Detecting Leads	PF Fittings, Pole	TV Tester, Tube
DY Dynamotors	PG Pigeon Articles	U Connectors, Audio and Power
E Hoist Assembly	PH Photographic Articles	UG Connectors, R. F.
F Filters	PP Power Supplies	V Vehicles
FN Furniture	PT Plotting Equipments	VS Signaling Equipment, Visual
FR Frequency Measuring Devices	PU Power Equipments	WD Cables, Two Conductor
G Generators	R Receivers	WF Cables, Four Conductor
GO Goniometers	RD Recorders and Reproducers	WM Cables, Multiple Conductor
GP Ground Rods	RE Relay Assemblies	WS Cables, Single Conductor
H Head, Hand, and Chest Sets	RF Radio Frequency Component	WT Cables, Three Conductor
	RG Cables and Transmission Line, Bulk R. F.	ZM Impedance Measuring Devices

Examples of "An" Type Numbers

TYPE NUMBER INDICATES

AN/SRC-2 ()	General reference set nomenclature for water surface craft radio communication set No. 3.	AN/APQ-13-T1A	Modification training set nomenclature applied against AN/APQ-13-T1.	T-51/ARQ-8	Original procurement component nomenclature applied against T-51 ()/ARQ-8.
AN/SRC-3	Original procurement set nomenclature applied against AN/SRC-3 () .	AN/UPT-T3 ()	General reference training set nomenclature for general utility radar transmitting training set No. 3.	T-51A/ARQ-8	Modification component nomenclature applied against T-51/ARQ-8.
AN/SRC-3A	Modification set nomenclature applied against AN/SRC-3.	AN/UPT-T3	Original procurement training set nomenclature applied against AN/UPT-T3 () .	RD-31 ()/U	General reference component nomenclature for recorder-reproducer No. 31 for general utility use, not part of a specific set.
AN/APQ-13-T1 ()	General reference training set nomenclature for the AN/APQ-13 set.	AN/UPT-T3A	Modification training set nomenclature applied against AN/UPT-T3.	RD-31/U	Original procurement component nomenclature applied against RD-31 ()/U.
AN/APQ-13-T1	Original procurement training set nomenclature applied against AN/APQ-13-T1 () .	T-51 ()/ARQ-8	General reference component nomenclature for transmitter No. 51, part of or used with airborne radio special set No. 8.	RD-31A/U	Modification component nomenclature applied against RD-31/U.

Table of Set or Equipment Indicator Letters

INSTALLATION

- A—Airborne (installed and operated in aircraft)
- B—Underwater mobile submarine
- C—Air transportable activated, do not use
- D—Pilotless carrier
- F—Fixed
- G—Ground, general ground use (includes two or more ground installations)
- K—Amphibious
- M—Ground, mobile (installed as operating unit in a vehicle which has no function other than transporting the equipment)
- P—Pack or portable (animal or man)
- S—Water surface craft
- T—Ground, transportable
- U—General Utility (includes two or more general installation classes, airborne, shipboard and ground)
- V—Ground, vehicular (installed in vehicle

designated for functions other than carrying electronic equipment, etc., such as tanks)

TYPE OF EQUIPMENT

- A—Invisible light, heat radiation
- B—Pigeon
- C—Carrier (wire)
- D—Radic
- F—Photographic
- G—Telegraph or teletype (wire)
- I—Interphone and public address
- K—Telemetering
- L—Countermeasures (inactivated, do not use)
- M—Meteorological
- N—Sound in air
- P—Radar
- Q—Sonar and underwater sound
- R—Radio
- S—Special types, magnetic, etc. or combinations of types
- T—Telephone (wire)
- V—Visual and visible light
- X—Facsimile or television

PURPOSE

- A—Auxiliary assemblies (not complete operating sets)
- B—Bombing
- C—Communications (receiving and transmitting)
- D—Direction finder
- G—Gun or searchlight directing
- H—Recording (photographic, meteorological and sound)
- L—Searchlight control (inactivated, use "G")
- M—Maintenance and test assemblies (including tools)
- N—Navigational aids (including altimeters, beacons, compasses, racons, depth sounding, approach and landing)
- P—Reproducing (photographic and sound)
- Q—Special, or combination of types
- R—Receiving
- S—Detecting and/or range and bearing
- T—Transmitting
- W—Remote control
- X—Identification and recognition

**AVAILABLE
IN JUNE**

401-A



A general-purpose, 5" oscilloscope of superb design and construction, destined to become the new standard of the industry. This Du Mont scope offers a new high degree of reliability and performance, and incorporates the following features . . .

- X-Y plotting with identical, calibrated, high-gain amplifiers.
- Time function plotting on calibrated linear time base.
- Continuous use of X or Y amplifier controls without disturbing calibration. Re-calibration from front panel.
- Diddle-free sync. Automatic or driven sweep selection on front panel.
- **Exclusive:** externally or internally triggered beam brightening during X-Y plots.
- High brightness provides excellent photographic writing rate.
- Sweep speeds available from .25 sec/cm to 5 usec/cm.
- Centimeter calibration.
- Choice of electronic power regulation or Sola voltage-regulating transformer.
- Hand-crafted wiring and high-reliability components for dependability and performance.

What would you expect to pay for this **DUMONT** scope?

Turn Page →



DU MONT[®]



OSCILLOSCOPE

**TYPE 401-A
OR
TYPE 401-AR
(RACK-MOUNTED)**

\$430

(PRICES F.O.B.
CLIFTON, N. J., U.S.A.)

See preceding
page for
features...

SPECIFICATIONS

IDENTICAL X AND Y-AMPLIFIERS: Sensitivity, 10 mv/cm. Sinewave response, extends flat from dc to 3 db down at 100 kc, useful to 500 kc.

SWEEPS: 17 calibrated sweeps available from 250 millisecond/cm to 5 usec/cm. Additional sweep time available, 250 msec/cm for each microfarad of external capacitance. Sweep expansion, up to 30 cm — any 10 cm segment can be positioned on screen.

RELATIVE PHASE SHIFT BETWEEN AMPLIFIERS: With X and Y-controls at maximum, phase shift will not exceed 3° below 100 kc; at discreet higher frequencies, phase difference can be adjusted to less. Will not exceed 1° below 5 kc with any control setting.

SYNCHRONIZATION: Selection of driven or automatic sweep on front panel. Selection of internal, external or line, both positive and negative polarity, on front panel. Beam brightening gate may be triggered by sync signals during X-Y plotting and for controlled photographic exposure.

CATHODE RAY TUBE: 5ADP — operated at 3000 volts.

POWER SUPPLY: Three regulated power supplies available for following sources: 115 V, 60 cps, 110 watts; 115 V or 230 V, 50 cps, 110 watts; 115 V, 50 to 400 cps, 140 watts. Regulated r-f high voltage for CRT.

MECHANICAL: 401-A (Bench model), 15½" x 8¾" x 21". Front or rear tilting foot. 401-AR (Rack mounted), standard 19" rack-mounting, 8¾" high, 18¾" depth behind panel, width behind panel 14¾", maximum protrusion (handles) in front of panel is 1½". Weight of either unit approximately 45 lbs.

for complete details, write...

INSTRUMENT DIVISION, ALLEN B. **DU MONT** LABORATORIES, INC., CLIFTON, N. J., U. S. A.

Technical Data

for Engineers

Cables and Connectors

A 32-page catalog has just been published by Microdot, Inc., 220 Pasadena Ave., S. Pasadena, Calif., describing electrical and physical characteristics of micro-miniature coaxial cables, nomenclature and specification on more than 200 stock plugs, right angle plugs, hermetic seal receptacles, bulkhead jacks, printed circuit receptacles, BNC adapters, module blocks and terminals along with data on several types of special cables and connectors. Information is given in tabular form along with line drawings.

Circle 428 on Inquiry Card

Core Design

A new 24-page booklet entitled "Type 'C' Hipersil Core Design and Application Manual" is available from Westinghouse Electric Corp., Box 2278, Pittsburgh, Pa. This booklet is written for production and design people concerned with the manufacture of transformers and reactors. It is illustrated with photographs, diagrams, and data charts.

Circle 429 on Inquiry Card

Aluminum Soldering

A series of reprints describing fluxless aluminum soldering are available from the Chemalloy Electronics Corp., Gillespie Airport, Santee, Calif. Reprints describe simple means of soldering aluminum without the use of flux and advantages.

Circle 430 on Inquiry Card

Thermistor

A new 10-page bulletin on Glenite thermistors is announced by the Thermistor Div., Gulston Industries, Inc., Metuchen, New Jersey. Listing typical applications in circuitry, the new catalog gives specifications and characteristics of wafer, rod and bead thermistors. Each type is illustrated with diagrams and charts indicating models and the corresponding characteristics and size. Included is a table showing the resistance ratio vs. temperature to compute thermistor resistance at specified temperatures.

Circle 431 on Inquiry Card

Electron Tubes

Eitel-McCullough, Inc., San Bruno, Calif., has just issued a new quick-reference catalogue of their complete line of tubes. The 2-color booklet contains all required information in easy-to-read form.

Circle 432 on Inquiry Card

Speaker Systems

A new, colorful brochure covering University Loudspeakers, Inc., 80 S. Kenilco Ave., White Plains, N. Y., complete line of high fidelity speaker systems and assembled enclosures is now available.

Circle 433 on Inquiry Card

Commercial Glasses

A 16-page bulletin, "Properties of Selected Commercial Glasses" (B-83), has been completely revised and is now available. Several new glasses have been added to the property data chart, including aluminosilicate glass, low loss iron sealing glass, fused silica, and radiotron tube and capacitor glass. Corning Glass Works, Corning, N. Y.

Circle 434 on Inquiry Card

Teflon Wire

A new Mil Spec catalog is available from the Belden Mfg. Co., 4647 W. Van Buren, Chicago, Ill. which describes their complete line of teflon insulated hook up wire. In addition, the catalog lists the Mil Spec of other wires manufactured by this firm.

Circle 435 on Inquiry Card

Ferrites

An 8-page bulletin describes "Ferramics" for general applications up to 200 MC. The booklet is an easy to follow technical description on ferrites. It is complete with graphs, tables and photographs. General Ceramics Corp., Keasbey, N. J.

Circle 436 on Inquiry Card

Waveguide and Connectors

Waveline Inc., Caldwell, N. J., has just issued a plastic wallet-sized card which contains in tabular form on one side the various waveguides and their physical dimensions along with flange connectors and the frequency of operation. The reverse side contains cutoff frequency and attenuation ranges of these waveguides.

Circle 437 on Inquiry Card

Transistor Inverters

A 10-page, 2-color brochure issued by Varo Mfg. Co., Inc., 2201 Walnut St., Garland, Tex. describes their complete line of transistor inverters for conversion of dc to 400 cps ac. Brochure contains photographs, electrical and mechanical specifications, block diagrams, schematics, and tables covering transistor inverters.

Circle 438 on Inquiry Card

Servo Information

"Around the Servo Circuit" is a quarterly issue available to engineers interested in keeping up-to-date on latest developments in the controls field. Free subscriptions are available. Servo Corp. of America, 20-20 Jericho Turnpike, New Hyde Park, N. Y.

Circle 439 on Inquiry Card

Semiconductors

A note book type folder containing complete engineering data on germanium transistors has been issued by Tung-Sol Electric Inc., 95 8th Ave., Newark 4, N. J. The data sheets in this folder contain physical and electrical specifications along with graphs.

Circle 440 on Inquiry Card

Audio Equalizers

"Audio Frequency Equalizers," a 16-page catalog, has just been issued by Cinema Engineering, div. Aerovox Corp., 1100 Chestnut St., Burbank, Calif., with product illustrations and two dozen charts showing response characteristics, dialogue and variable equalizer diagrams. Catalog index is by subject and also by catalog identification. Also contains 8 case studies, problems and solutions from experience in actual usage.

Circle 441 on Inquiry Card

Control Theory

A new bulletin on pneumatic control instruments, featuring more than 10 pages of general automatic control theory has recently been published by The Bristol Co., 20 Waterbury, Conn. The 44-page, 2-color bulletin describes in simplified terms and illustrations the basic concepts of narrow band, proportional, reset, derivative, and reset plus derivative control actions. Also covered are selective, cascade, and ratio controls.

Circle 442 on Inquiry Card

Connectors

A new 32-page 2-color catalog, GB6, contains complete information on battery connectors, power connectors, and heavy duty connectors for industrial and allied applications. Cannon Electric Co., 3208 Humboldt St., Los Angeles 31, Calif.

Circle 443 on Inquiry Card

Rectifiers & Capacitors

The Rectifier-Capacitor Div. of Fansteel Metallurgical Corp., North Chicago, Ill. are giving subscriptions to their bi-monthly technical publication "ReCap" which contains information on rectifiers and capacitors.

Circle 444 on Inquiry Card

**± SIX MICROVOLT INPUT DRIFT
OVER AN EIGHT HOUR PERIOD**



22

The Rheem REL-120 is a completely transistorized direct-coupled instrumentation d-c amplifier. The latest circuit techniques are employed to realize all the advantages of such an amplifier, while maintaining high input impedance and extremely low drift characteristics.

Some of the outstanding features are:

1. Long life due to inert components (transistors and diodes)
2. Low heat generation due to an average required input power of only 10 watts
3. Self-contained power supply — works directly from either 60 or 400 cycles

FOR COMPLETE SPECIFICATIONS AND ENGINEERING DATA ON THE REL-120 d-c AMPLIFIER... CONTACT RHEEM ELECTRONICS DIVISION MARKETING DEPT. DIRECT AT THE ADDRESS SHOWN BELOW



Actual Drift Recording



REL-120 d-c amplifier
physical characteristics:
2-15/16" x 6-15/16" x 10"

RHEEM MANUFACTURING COMPANY / ELECTRONICS DIVISION

Phone number: RAYmond 3-8971...7777 Industry Ave., Rivera, California



Technical Data

for Engineers

Transformers

Bulletin No. 531 describes many types of transformers available from Chicago Standard Transformer Corp., 3501 West Addison St., Chicago 18, Ill. Bulletin is complete with photographs and specifications.

Circle 445 on Inquiry Card

Silicon Rectifiers

A series of 4 bulletins, 2 colors has been issued by Audio Devices, Inc., 620 E. Dyer Rd., Santa Ana, Calif. describing their new line of silicon rectifiers. Complete electrical and mechanical specifications are given along with graphs and drawings.

Circle 446 on Inquiry Card

Power Rectifiers

Sarkes-Tarzian, Inc., 415 N. College Ave., Bloomington, Ind., has issued a series of 3-colored bulletins called "Design Notes" which give complete engineering information on their silicon rectifiers.

Circle 447 on Inquiry Card

Film Catalog

The new booklet titled "Westinghouse Sound Films" is available from Westinghouse Electric Corp., Box 2278, Pittsburgh 30, Pa. The booklet is a catalog of 47 general interest films, product information films, and training films available without charge. The 16mm sound films are for use by professional, civic and business groups.

Circle 448 on Inquiry Card

Capacitor Chart

Erie Resistor Corp. of Erie, Pa. has produced a convenient reference chart giving data on capacitors in quickly available form. The plastic card is 7½ x 4½ in. It shows dielectric qualities and temperature coefficients of Erie tubular and Disc-Ceramics as well as maximum available nominal capacities in mmf.

Circle 449 on Inquiry Card

Read-Record Heads

General Transistor Western Corp., 6110 Venice Blvd., Los Angeles 34, Calif., has issued a bulletin describing their magnetic read-record heads. Two-color brochure contains pictures and a description of the various types of heads available.

Circle 450 on Inquiry Card

Wall Chart

A reference table for Engineers and other executives in wall chart form has been published by Precision Equipment Co., 3716 N. Milwaukee Ave., Chicago 41, Ill. Included are common conversions such as inches to centimeters or watts to H.P. as well as many conversions that are difficult to locate in reference manuals.

Circle 451 on Inquiry Card

Instrumentation Tape

"For Instrumentation Use" is the title of a booklet issued by Minnesota Mining & Mfg. Co., Dept. GO-77, St. Paul 6, Minn. It is a handy reference book for industry and defense that contains technical specifications, information and analysis on tapes.

Circle 452 on Inquiry Card

Wall Chart

This new, large chart, entitled "Electrical Conductor Code Names," lists alphabetically in a general section more than 600 code names and specifies type and size of aluminum electrical conductors. More detailed information is provided in adjacent tables including data on coverings, messengers, sizes, and strandings. British as well as U. S. standard tables are included. Designed as a permanent reference, the green and white chart is printed on a washable, crack-resistant plastic paper. Kaiser Aluminum & Chemical Sales, Inc., 919 N. Michigan Ave., Chicago 11.

Circle 453 on Inquiry Card

Silicon Rectifiers

Two 2-color bulletins describing a line of high current silicon junction rectifiers are available from Semiconductor Products Dept., General Electric Co., Electronics Park, Syracuse 1, N. Y. Brochures contain photographs, drawings, graphs and complete physical and electrical specifications.

Circle 454 on Inquiry Card

Condensed Catalogue

Cinema Engineering, Div. Aerovox Corp., has published a condensed catalogue of its products. In capsule form, illustrated, it describes the major divisions of its manufactured items. This includes audio and laboratory amplifiers, audio attenuators, resistance decade boxes, degaussers, audio equalizers, power supplies, precision wire-sound resistors, instrument switches, and audio accessories. The Catalogue 22-A is available from Cinema Products, 1100 Chestnut St., Burbank, Calif.

Circle 455 on Inquiry Card

Electron Tube Catalog

A new 16-page, 3-color Quick Reference Catalog has been published by Eitel-McCullough, Inc., San Bruno, Calif. Summarized electrical and physical data is given in handy tabulated form for each of the company's line of triodes, tetrodes, pentodes, klystrons, high vacuum and mercury vapor rectifiers, vacuum capacitors, vacuum switches, ionization gauge, contact finger stock, heat dissipating connectors, air system sockets and chimneys.

Circle 456 on Inquiry Card

Printed Circuit Tapes

A brochure issued by Westline Products Div., 600 E. 2nd St., Los Angeles 54, Calif., describes printed circuit layout tapes with self-adhering backing. Tapes come in rolls and in a variety of shapes and sizes pre-cut for instant use. They can be applied to glass, papers, linens, etc. Free samples available.

Circle 457 on Inquiry Card

Engineering Bulletins

"Berkeley Engineering" is available quarterly from the Beckman/Berkeley Corp., 2200 Wright Ave., Richmond 3, Calif. This quarter's issue is an easy-to-follow description of Servo-multiplier Performance. It is complete with multicolored graphs and charts.

Circle 458 on Inquiry Card

Frequency Measurements

Data File 111 describes frequency measurements and how to make them. This 16-page booklet covers such things as measurement of low to UHF frequencies, rotational velocity, flow, pressure, temperature and strain. It also covers telemetry and setting up a secondary standard of frequency. Complete with graphs and charts, this is a definitive discussion of the topic. Dept. 7220, Beckman/Berkeley, 2200 Wright Ave., Richmond 3, Calif.

Circle 459 on Inquiry Card

Microwave Test Equipment

A new 96-page illustrated catalog is available showing a complete line of microwave instruments covering the frequency range 2600 to 90,000 mc. Complete electrical and mechanical data is presented including numerous data, charts, curves and photographs. Waveline Inc., Caldwell, N. J.

Circle 460 on Inquiry Card

Technical Data

for Engineers

Nickel Cadmium Batteries

Gulton Industries, Inc., 212 Durham Ave., Metuchen, N. J. has just issued an 8-page, 2-color illustrated bulletin describing the performance specifications, peak discharge currents and construction characteristics of the new battery line. Bulletin VO-100 is complete with photographs, tables, and graphs.

Circle 461 on Inquiry Card

Parabolic Antennas

A series of eight 2-color bulletins describing parabolic antennas has been issued by Technical Appliance Corp., Sherburne, N. Y. Bulletins are complete with photographs, specifications, graphs, and tables.

Circle 462 on Inquiry Card

Torque vs RPM Chart

John Oster Mfg. Co., Inc., 5333 S. Sepulveda Blvd., Culver City, Calif., has just made available copies of their ounce inch torque versus RPM at stated horsepower chart. Chart is clear and easy to read and the information is presented in a tabular form. Also included on chart are engineering constants.

Circle 463 on Inquiry Card

R.F. Coils and Chokes

The Miller Co. has issued a 36-page catalog on their industrial electronic, radio and television R.F. Coils. Also listed are different types of I.F. cans, tuning capacitors, loop antennas and R.F. filters. Booklet is complete with pictures, specifications and price lists. J. W. Miller Co., 5917 S. Main St., Los Angeles 3, Calif.

Circle 464 on Inquiry Card

Gold-Bonded Diodes

Technical bulletin B-215 issued by the Clevite Transistor Products, 241 Crescent St., Waltham 54, Mass. describes a complete line of subminiature glass diodes incorporating alloys of silicon and germanium. Bulletin contains complete specifications and an easy-to-read table.

Circle 465 on Inquiry Card

Counting Circuits

Catalog No. 11245, 26-page, 2-color booklet, describes plug-in counting circuits manufactured by The Walkirt Co., 145 W. Hazel St., Inglewood, Calif. Booklet contains complete specifications, suggest the circuits to use the equipment in and the circuits of the equipment itself. A description of how the circuits work and the glossary of terms as they apply to counting circuitry are included.

Circle 466 on Inquiry Card

Digital Tape System

A 16-page brochure describes a new magnetic-tape input/output system for digital computers and related equipment. Manner of achieving buffer-storage reduction, fail-free operation and transfer rates up to 90,000 characters per second is explained. Individual items of equipment are completely illustrated and described. Extensive specifications are given and alternative equipment choices are compared in tabular presentation. Ampex Corp., 934 Charter St., Redwood City, Calif.

Circle 467 on Inquiry Card

Precision Resistors

Four-page bulletin contains data on construction, types, winding technique, winding forms, impregnation, terminals and characteristics of precision wire wound resistors. Detailed charts and graphs are included. International Resistance Co., 401 N. Broad St., Philadelphia 8, Pa.

Circle 468 on Inquiry Card

Tape Recording

"An Approach to Quantitative Methods for Evaluation of Magnetic Recording Performance" is a 12-page booklet issued by the Ampex Corp., Redwood City, Calif. Technical booklet on recording is complete with pictures, graphs and other technical data.

Circle 469 on Inquiry Card

Traveling Wave Tubes

Technical bulletin 1 issued by the Sperry Gyroscope Co., Great Neck, N. Y. describes in detail the theory and operation of traveling wave tubes. Included are block diagrams, drawings, cut away views and typical traveling wave tube specifications.

Circle 470 on Inquiry Card

Precision Potentiometers

A 12-page, 2-color booklet has been issued by Beckman/Heliplot Corp., Newport Beach, Calif. Booklet describes their line of Heliplots, turn-counting digital dials, and turn-counting dials. Booklet contains photographs and complete specifications.

Circle 471 on Inquiry Card

Transistor Literature

Bulletin G-120 issued by General Transistor Corp., Jamaica, N. Y., describes their complete line of pnp and npn transistors for radio, rf and if applications. Brochure contains complete information along with circuit diagrams.

Circle 472 on Inquiry Card

Precision Optics

Precision optics produced by Texas Instruments Inc., 6000 Lemmon Ave., E. Dallas 9, Tex. at its Optics Division, including infrared systems components fabricated from TI-grown silicon crystals, are described in two new bulletins now available.

Circle 473 on Inquiry Card

Electronics in General

"The New World of Electronics" has been published by the Amphenol Electronics Corp. of Chicago, 1830 S. 54th Ave., Chicago 50, Ill. Designed to examine the various factors which affect electronic development, the colorful booklet describes the importance of research, engineering, facilities, quality control and reliability in electronic components and in any electronics product. Described as being of interest to everyone associated with the electronics industry.

Circle 474 on Inquiry Card

Fresnel Integrals

A 7-page report entitled "Evaluation of the Fresnel Integrals by the G-15 D Computer with Accessory DA-1" has been published by the Bendix Computer Div., 5630 Arbor Vitae St., Los Angeles 45, Calif. In the field of physical optics, the Fresnel integrals frequently occur. They are ordinarily evaluated by use of infinite series.

Circle 475 on Inquiry Card

Computer Information

Computer Control Co., Inc., 92 Broad St., Wellesley 57, Mass., has issued a series of 3 booklets. The booklets are titled "Symbolic Logic, Binary Calculation, and 3C-PACs," "Logical Design of Digital Computing and Control Circuits with 3C-PACs" and "Transistorized Modules for Digital Systems." Booklets are technical, simplified descriptions of how computers work and have easy-to-read tables and diagrams to make the instructions easier to follow.

Circle 476 on Inquiry Card

Synchros & Resolvers

A new catalog, especially designed to aid in the selection and application of precision synchros, resolvers and rotating components, has been published by Induction Motors of California, 6058 Walker Ave., Maywood, Calif. Of particular interest to the design engineer, the catalog covers synchro sizes and types for a wide range of applications. Dimensional data, materials and electrical data are given on the various types described and illustrated.

Circle 477 on Inquiry Card



Another Tinnerman Original...

Self-retaining "U" and "J" SPEED NUTS® cut assembly costs up to 50% or more!

If you are worried about rising assembly costs, let one-piece "U" and "J" SPEED NUTS keep costs down . . . and improve your product.

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**PERMANENTLY STABLE,
100% TESTED**

Resistors

**PRECISION WIRE
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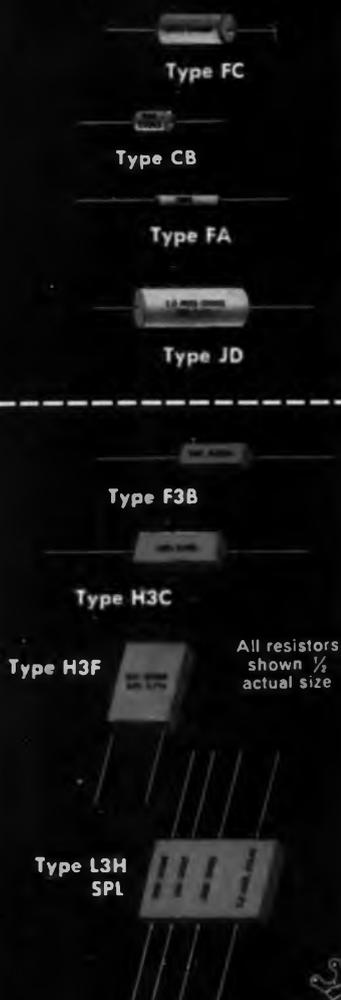
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FAR EXCEED PROPOSED MIL-R-93B*

COMPARATIVE DATA REPORT

Note Exceptional Stability. Note extent that MIL-R-93B is exceeded.

MIL-R-93B (proposed) Tests	MIL Requirement	CTS Maximum	CTS Average
Short Time Overload	0.5%	.05%	.02%
Temperature Cycling	0.2%	.05%	.02%
Moisture Resistance	100 megs	1000 megs (min)	---
Salt Water Immersion Cycling	0.5%	.1%	.05%
Load Life at 125°C or 85°C (500 hours)	0.5%	.15%	.05%
Temperature Coefficient			
Less than 2000 ohms	Up to 75 PPM/°C	30 PPM/°C	---
2000 ohms and over	30 PPM/°C	20 PPM/°C	---
Low Temperature Storage	1.0%	.01%	.005%
Low Temperature Operation	1.0%	.05%	.02%
High Temperature Exposure (145°C)	1.0%	.05%	.02%
Acceleration	0.1%	.02%	.008%
Shock	0.1%	.02%	.008%
Vibration	0.1%	.02%	.008%



All resistors shown 1/2 actual size

- No Wire Strain. Unique CTS "floating element" needs no bobbin or winding form . . . permits resistance elements and contacts to be firmly embedded in epoxy resin . . . forming a monolithic mass with a smaller space factor.
- Permanent Stability—Less than .05% average change under most environmental conditions and shelf life.
- 5PPM/°C Temperature Coefficient available.
- 100% Tested—High temperature exposure and short time overload tests are run on all resistors before shipment.
- Guaranteed Close Tolerance — Resistors guaranteed to be in tolerance under normal conditions of measurement. Tolerances down to $\pm 0.05\%$ available in standard sizes depending upon resistance value. Closer tolerances and/or matched multiples available.
- Low Inductance and Low Capacitance Characteristics with reproducible uniform frequency response.
- Withstands extreme vibration and shock due to unique construction and encapsulation method.
- Modular—Design flexibility permits grouping many resistors in a single unit.

Available in a wide variety of tubular, rectangular or square shapes. Special dimensions, tolerances, wattage ratings, resistances, etc. can be made to your precise requirement. Either axial or radial leads available.

For help in solving your fixed resistor problems, phone or write your nearest CTS office today.

*MIL-R-93B (proposed) soon to be issued, superseding MIL-R-93A.

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Circle 5 on Inquiry Card, page 173

Technical Data

for Engineers

Printed Circuits

Technical Bulletin P-9b entitled "Standard Printed Circuit Tolerances" is available from Photocircuits Corp., Glen Cove, N. Y. Bulletin contains clearly defined guides for design engineers and layout draftsmen in the preparation of original circuit designs. Bulletins are in handy loose-leaf form for ready reference.

Circle 478 on Inquiry Card

Pulse Transformers

A new 12-page, 2-color catalog describing pulse transformers, toroids and filters is now available from Pulse Engineering, 2657 Spring St., Redwood City, Calif. Catalog provides detailed circuit applications and design hints using schematic diagrams to outline typical uses.

Circle 479 on Inquiry Card

Transistor Chart

A new transistor replacement chart issued by Bendix Semiconductor Products, 201 Westwood Ave., Long Branch, N. J., lists the correct Bendix transistor to use to replace weak and burned out transistors with Bendix units.

Circle 480 on Inquiry Card

Electron Tubes

A revised and enlarged catalog provides basic data and ratings on electron tubes. Data on industrial power triodes, high vacuum rectifiers, UHF triodes and hard modulator tubes are included. This 24-page color booklet is issued by Machlett Laboratories, Inc., Springdale, Conn.

Circle 481 on Inquiry Card

Tube Wall Chart

The latest series string reference chart for identifying the numerous 450 ma. and 600 ma. series string tube types, along with their prototypes is available from Sylvania Electric Products, Inc., Emporium, Pa. The 2-color wall chart includes all series string type numbers that have been released through the Electronics Industries Association to date.

Circle 482 on Inquiry Card

High Frequency Transistor

General Transistor Corp., 91-27 138th Place, Jamaica 35, N. Y., has issued a 12-page brochure describing their high frequency transistors. Brochure gives maximum ratings, cut-off and small signal characteristics, and charts showing the common emitter output static characteristics.

Circle 483 on Inquiry Card

Semiconductor Products

A 22-page booklet titled "RCA Transistors and Semiconductor Diodes" contains transistor theory, technical data on their line of transistors and semiconductor diodes, the circuit section illustrating some of the more important applications of these devices, and an interchangeability directory which list more than 500 types produced by 27 manufacturers. RCA, Semiconductor Div., Somerville, N. J.

Circle 484 on Inquiry Card

Thyratrons-Rectifiers

A fully illustrated 12-page catalog on thyratrons and rectifiers tubes has just been published by Continental Electric Co.-Taylor Tubes, Inc., 6 N. Michigan Ave., Chicago 2, Ill. Included are charts, schematics, cross-reference replacement data and descriptive matter on the Cetron-Taylor product line.

Circle 485 on Inquiry Card

Loudspeakers

A 12-page illustrated catalog covers a complete line of loudspeakers and speaker components for high fidelity and commercial-industrial use. Complete information and description is given. University Loudspeakers, Inc., 80 So. Kensico Ave., White Plains, N. Y.

Circle 486 on Inquiry Card

Automation System

Features of the new Univac II Data Automation System are described fully in an attractive, fully illustrated 79-page manual issued by Remington Rand Univac, 315 Fourth Ave., New York 10, N. Y. Bulletin U-23 is a complete guide for Univac II system and is designed for the needs of both the computer specialist and the layman. The manual contains 5 sections.

Circle 487 on Inquiry Card

Technical Bulletin

"Microwave Ferrite Devices" is the title of a technical bulletin issued by the Sperry Gyroscope Co., Great Neck, N. Y. The bulletin covers completely the basic operation of ferrite devices. Complete with graphs, photographs, and drawings.

Circle 488 on Inquiry Card

All-Purpose Computer

A 16-page, 2-color booklet has been issued by the Bendix Computer, Div. of Bendix Aviation Corp., 5630 Arbor Vitae St., Los Angeles 45, Calif., describing in great detail their G-15 all-purpose computer system.

Circle 489 on Inquiry Card

Microwave Components

Sylvania Electric Products Inc., 500 Evelyn Ave., Mountain View, Calif. has just issued an 8-page, 2-color brochure giving technical information on traveling wave tubes, ferrite devices, and klystrons. Brochure is complete with photographs, tables, and outline drawings.

Circle 490 on Inquiry Card

Saturable Reactors

Control, a division of Magnetics, Inc., Box 391, Butler, Pa., has issued a 32-page catalog describing their standard lines of saturable reactors for industrial and other control uses. Catalog R-10 has graphs, photographs and several pages showing typical circuits and formulae.

Circle 491 on Inquiry Card

Selecting Plugs

"How to Select a Cannon Plug" is concisely described in a new 40-page plug guide—an orientation to the 53,000 connectors manufactured by Cannon Electric Co., 3208 Humboldt St., Los Angeles 31, Calif. A check-list for selecting the proper plug includes important consideration such as: size, number and style of contacts, mounting space, coupling methods, insulation and environmental conditions. The plug guide also shows photographs of representative connectors, gives basic information on application, and indicates specific catalogs to order for complete data on each series of connectors.

Circle 492 on Inquiry Card

Replacement Guide

A new crystal diode replacement guide is available from Sylvania Electric Products Inc., 100 Sylvan Rd., Woburn, Mass. The new guide contains special data on Sylvania's miniature diodes plus complete listings for all general purpose diodes in the industry.

Circle 493 on Inquiry Card

Transistorized Amplifier

United Control Corp., 4540 Union Bay Place, Seattle 5, Wash., has issued a bulletin describing their transistorized amplifier module which is designed to withstand temperatures up to 212°F without damage. Amplifiers can be used in any system requiring an on-off control function. Two amplifier modules may be contained in a single package to form a modulating controller which can be used in any servo system where two-direction control is required. Photographs and specifications are included.

Circle 494 on Inquiry Card

Technical Data

for Engineers

Oscilloscopes and Accessories

Tektronix, Inc., P. O. Box 831, Portland 7, Ore., has just issued an 8-page short form catalog on their oscilloscopes and accessories. Brochure is complete with photographs, electrical and mechanical specifications on all types of oscilloscopes, plug-in preamplifiers, and other accessories.

Circle 485 on Inquiry Card

Packaged Circuits

A new 12-page packaged electronic circuit guide containing schematics and specifications on all 96 types of Centralab P.E.C.'s sold through electronic parts distributors is available from Centralab, 900 E. Keefe Ave., Milwaukee 1, Wis. There is also a section containing the proper test procedure for checking all listed packaged circuits.

Circle 496 on Inquiry Card

Aircraft Electronics

The Deutsch Co., 7000 Avalon Blvd., Los Angeles 3, Calif. have issued a reprint entitled "DC-8 Sets New Electronic Style." This 2-color, 8-page booklet describes, in detail, some of the electronic problems encountered in the manufacture of high speed commercial jet airliners and their solutions. Booklet contains information on connectors and antenna design problems. It is complete with photographs and drawings.

Circle 497 on Inquiry Card

Tube Test

"A Positive Grid Voltage-Space Current Division Test for Power Vacuum Tubes" is the name of a 16-page 2-color booklet issued by Eitel-McCullough, Inc., San Bruno, Calif. Complete with photographs, tables, graphs and other data, booklet describes the existing test techniques for power vacuum tubes and the limitations of the positive grid voltage-space current region. Related mechanical tube variations and dynamic circuit effects for one tube type are illustrated.

Circle 498 on Inquiry Card

Gold Plating

An 8-page paper on industrial gold plating is available from Sel-Rex Corp., P. O. Box 187, Nutley 10, N. J. The booklet treats, in detail, such topics as bath composition, equipment and operating conditions, and comparative metallurgical characteristics of 24K gold plate on various base metals. Complete with illustrations, graphs, and tables.

Circle 499 on Inquiry Card

Checkout Equipment

"Rapid Automatic Checkout Equipment for Maintenance of Weapon Systems" is a preprint available from Microwave Electronics Division of Sperry Gyroscope Co., Great Neck, N. Y. General purpose test devices can no longer meet the demands of final checkout at the operational point. The complexity of a system plus the short time available for pre-operational tests have made automatic test equipment necessary. This paper describes a solution to the problem.

Circle 500 on Inquiry Card

Antenna Measurements

The latest issue of "PRD Reports" features an illustrated technical paper titled "Antenna Pattern Instrumentation." This technical paper describes a complete microwave test equipment system for antenna pattern measurements in the frequency band from 1000 MC to 10,500 MC. Polytechnic Research & Development Co., Inc., 202 Tillary St., Brooklyn, 1.

Circle 501 on Inquiry Card

Silicon Rectifiers

Bulletins 20, 21, and 22 describe fully three types of full wave silicon rectifiers manufactured by Sarkes Tarzian, Inc., 415 N. College Ave., Bloomington, Ind. These 3-color bulletins contain photographs, line drawings, complete electrical and mechanical specifications along with graphs.

Circle 502 on Inquiry Card

Transistor Chart

Industro Transistor Corp., 35-10 36th Ave., Long Island City 6, N. Y., has announced the availability of a newly revised transistor specification chart which covers the germanium alloy-junction transistors that the company is now manufacturing. Chart also contains an interchangeability guide covering transistors of all manufacturers for computer, entertainment and industrial applications.

Circle 503 on Inquiry Card

Components

The Cambridge Thermionic Corp., 445 Concord Ave., Cambridge 38, Mass., has just issued a new 75-page catalog. Catalog 600 completely describes CTC's electrical and electronic components with detailed specifications and actual size illustrations. The products include new varieties of solder terminals, terminal boards, hardware, insulated terminals, coil forms, shielded coil forms, coils, and capacitors for design and product application engineers.

Circle 504 on Inquiry Card

Transistor Applications

A 2-color brochure has been issued by Texas Instruments, Incorporated, P. O. Box 312, Dallas, Tex., describing in tabular form the various transistors manufactured by them. Contain photographs, tables and complete electrical and physical specifications.

Circle 505 on Inquiry Card

Vacuum Calculator

A new version of a vacuum calculator is a handy-sized slide-rule for quickly determining the pumping capacity needed to evacuate a given volume to a specified vacuum in a given time, or computing the time required to reach a specific vacuum in a given volume with a pump whose capacity is known. The calculator also contains information on various liquids, their melting and vapor points. F. J. Stokes Corp., 5500 Tabor Rd., Philadelphia 20, Pa.

Circle 506 on Inquiry Card

Ceramic Magnets

The Indiana Steel Products Co., Valparaiso, Ind., has issued a 12-page booklet which describes the application of permanent magnets to motor design and is complete with photographs, tables, charts and graphs.

Circle 507 on Inquiry Card

Manufacturing Transistors

The General Transistor Corp., 91-27 138th Place, Jamaica, 35, N. Y. has just issued an 8-page, 2-color brochure describing, with photographs, step-by-step procedures followed in manufacturing germanium alloyed junction transistor.

Circle 508 on Inquiry Card

Batteries

A series of bulletins incorporated in one folder describe automatically-activated silver-zinc batteries and silver-zinc secondary (storage) batteries. Bulletins contain graphs, photographs, electrical specifications, and other information concerning these batteries. Frank R. Cook Co., 36 S. Santa Fe Drive, Denver 23, Colo.

Circle 509 on Inquiry Card

Silicon Power Transistors

Texas Instruments Incorporated, P. O. Box 312, Dallas, Tex., has just issued two new brochures, describing their type 2N424 n-p-n and type 2N389 n-p-n diffused junction silicon power transistors. Brochures contain photographs, drawings, graphs, and complete electrical specifications.

Circle 510 on Inquiry Card



D. E.
MAKEPEACE
DIVISION

FOR SLIP RING APPLICATIONS

SLIP RINGS . . . Diameter from $\frac{1}{32}$ " to 48" and larger. Rings are plastic molded, electroplated, electroformed or fabricated. Annular or cylindrical rings are formed of both solid and laminated metals. **SLIP RING ASSEMBLIES** . . . All sizes 1 to 400 circuits. Performance closely approaches that of a uniform cable. Crosstalk between circuits similar to shielded cable; impedance match at video frequencies like matched coaxial cable, at radio frequencies sufficiently close for many applications. D. E. Makepeace Division, Attleboro, Mass.

Circle 6 on Inquiry Card, page 175



AMERSIL
QUARTZ
DIVISION

FOR ULTRAVIOLET TRANSMISSION

AMERSIL FUSED QUARTZ . . . Ideal for use in high ultraviolet transmission applications and as laboratory ware, ranging from plain tubing to many intricate fabrications. Ingots and plates available in general commercial quality as well as in three special optical grades: **OPTOSIL**[®], practically bubble-free—very slight granular structure; **HOMOSIL**[®], completely free of bubbles—just the faintest traces of granular structure; and **ULTRASIL**[®], completely homogenized—increased UV transmission.

Amersil Quartz Division, 685 Ramsey Avenue, Hillside, N. J.

Circle 7 on Inquiry Card, page 175



CHEMICAL
DIVISION

FOR PURIFYING AND PURIDRYING

DEOXO[®] **PURIFIER** . . . provides low-cost catalytic purification of hydrogen and other gases to the extent of less than one part oxygen per million. Requires no operating expense, no maintenance, no reactivation, no auxiliary heating, no water cooler. **DEOXO**[®] **DUAL PURIDRYER** . . . combines continuously-operating, dual tower, automatically-run drying unit with the features of Deoxo Purifier—catalytically produces pure, dry hydrogen, so pure it contains less than one part oxygen per million, so dry that it has a dew point of better than -100° F.

Chemical Division, 113 Astor Street, Newark 2, N. J.

Circle 8 on Inquiry Card, page 175



ENGELHARD INDUSTRIES, INC.

113 ASTOR STREET
NEWARK 2, NEW JERSEY

FIRST IN SERVICE



M. & T. C.

ELECTRONICS PACKAGE NOW IN FULL PRODUCTION

A standardized AN/ASQ-17B Mission and Traffic Control package, developed and built by Packard Bell Electronics, marks the first successful integration of communications, navigation and identification in one pressurized, temperature-controlled unit. It has been accepted for service use by the U.S. Navy in the Douglas A4D "Skyhawk" and the Chance-Vought F8U "Crusader." Hundreds are now in operation.

ENGINEERING BEYOND THE EXPECTED

Mutual interference between IFF and UHF is normally inevitable, even when the units are encased separately and spaced several feet apart. In the AN/ASQ-17B these two units are packaged together, a fraction of an inch apart. Yet in official trials mutual interference was not noticeable or measurable. This achievement "beyond the expected" resulted from coordinated efforts of Douglas, Chance-Vought and Packard Bell Electronics engineers.

For your MISSION & TRAFFIC CONTROL or CNI problems consult the demonstrated leader in the field.



**PACKARD BELL ELECTRONICS
TECHNICAL PRODUCTS DIVISION**

12333 W. Olympic Boulevard
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For those who have considered engineering texts of their own, a technical book publisher answers some of the many questions that confront new authors. How much profit is there? How to choose a publisher? How to protect author's rights?

By

CHAS. E. HEINLE,
General Manager,
Chilton Book Div.



"About That Book"

Writing is difficult or easy, depending upon what you choose to make it. Unless you have written very much, the chief hardship is the uncertainty as to what to do. Your mind dashes ahead trying to visualize the completed book, even before the material has been gathered, an outline completed, or perhaps the theme settled in your mind. Such a lack of method would bring despair to even a professional author.

You must recognize that writing is work, and it should be approached in a workmanlike manner. There is no mystery about writing, and, indeed it can become commonplace, if you will always remember that it is a house of blocks, and each block is one of a definite series of steps. When a builder looks at a house he sees each step of construction clearly. An experienced writer sees each step of construction clearly and moves ahead one step at a time.

There are many books available to help you with the small details of writing. Problems of paragraphs, sentences, words, phrases, points of grammar and style—these are only small parts of the overall picture. Since it is not our purpose here to cover the actual writing process, but rather to try to interest those to write who have something important to say, and have never said it, we will recommend an intensive reading of any good book on creative writing, and go on to the reasons why you should write.

Why Everyone Should Write

Writing, if properly approached, is a great aid to clear thinking, sound planning, a consolidation of thought, that can and often will lead to a vast improvement of your conception of any subject. Whether or not you publish, the simple act of *recording* your thinking clears the air like a thunder storm. If you have said what you intended, and upon re-reading cannot improve it, you have at least accomplished what can be the most rewarding activity of men—capturing forever the subtle thoughts of the human brain for other men to use. Writing is to thought what the finishing touches are to our house of blocks—it enables everyone to see the finished product. How well it looks, of course, will depend upon how sound a foundation of research and thinking you put under it. What it will mean to you economically will depend upon the value the market-place fixes on your subject and the way you developed it.

What are Publishers?

Publishers are neither philanthropists or rogues. Nor is it true, as stated in the malignant epigram, that they have a habit of drinking out of authors' skulls. Regard them as ordinary human beings trying to earn their living at an unusually difficult occupation. The source of profit is the difference between what a book costs to manufacture and what booksellers pay the publisher for it, and from this income must be paid the costs of selling, advertising and promotion, overhead, etc. The laws of arithmetic apply to all publishers. So do not expect to make a fortune from your writing, unless the public is willing to pay a fortune to read you. This is especially true in the field of technical books where, with certain exceptions, a limited market awaits your work. There are standard royalty rates that most reputable publishers pay their authors today, and these usually are 10% on the first 2500 copies sold, 12½% on the next 2500 copies sold, and 15% on all sold thereafter. This is computed on the net proceeds of sale. On this basis an average edition of an average technical book might bring the author the sum of \$1,500 in cash and an untold value in prestige—that will pay off in advancement with your firm or school, and another chance to write a book that will enjoy a better sale, perhaps, than your first one.

Securing a Publisher

The problem of securing a publisher can be divided into two parts. What you should look for in a publisher, and what the publisher is looking for in you.

Starting with you at the point of having completed your research, and having a definite theme or subject, it is usually best to prepare a complete outline of your proposed book, and a sample chapter, to give the publisher an idea of the treatment. Send these with a letter covering the essentials of your book, its purpose, the market you have in mind, and if you are familiar with it, the competitive titles in the field—their weaknesses or strong points if applicable.

It is somewhat easier in the technical field to select a publisher that will have some interest in your subject, because it is possible to go through various cata-

(Continued on page 203)

TRAINING A BIRD



TO NEST IN THE SAND

They try to "make life difficult"

The brittle cold of the stratosphere... the heat of air-skin friction... the acceleration and vibration of launch and flight... the unfavorable conditions inherent to storage and handling... all these factors can play havoc with a guided missile.

Hughes Research and Development engineers have designed the Falcon air-to-air guided missile to operate under the most severe conditions. Environmental testing (see Sand & Dust Test at left) subjects missiles to extremes in temperature, shock and other trouble-making conditions.

The Falcon missiles, with either infrared and radar guidance systems, measure only about 6½ inches in diameter. Complex guidance, control and auxiliary systems of each missile are installed in a space no bigger than a stovepipe.

The research and development skill required to successfully engineer the Falcons typifies the challenge present today in other Hughes guided missile assignments of a more

classified nature. A few of the areas being emphasized by the Hughes Research and Development Laboratories include missile launchers and power plants, guidance systems, reliability, product design, microwaves, aerodynamics, field test and telemetering, stress analysis and related areas.

High orders of engineering skill are also manifest in other Hughes activities. The commercial area, Hughes Products, has recently announced the development of a numerical control system which will automate a complete and integrated line of machine tools. The Hughes Ground Systems Division has developed a radar antenna which provides three-dimensional target data from a single antenna, transmitter and receiving channel.

Apart from the diversity of activity and the highly rewarding type of work, prospective employees may have confidence in the fact that Hughes will retain its leadership in the field of advanced electronics.



Collapsing the time between missile development and its effective tactical use is a project assigned to the Hughes Tucson Engineering Laboratories.



So advanced is the test equipment being designed by Hughes engineers in the El Segundo Manufacturing Plant that the test equipment is often as complex as the advanced systems being tested.

An immediate need now exists for engineers in the following areas:

Circuit Design	Computer Engineering
Reliability	Crystal Filters
Communications	Microwaves
Environmental	Field Engineering
Vacuum Tubes	Aerodynamics

Write, briefly outlining your experience, to Mr. Phil N. Scheid, Hughes General Offices, Bldg. 6-F, Culver City, California.

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Creating a new world with ELECTRONICS

HUGHES

HUGHES AIRCRAFT COMPANY
Culver City, El Segundo,
Fullerton and Los Angeles, California
Tucson, Arizona

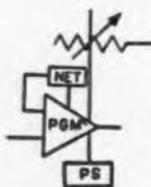
CIRCUIT SYMBOLS

Graphical representation of electronic and related components provides an efficient shortcut in conveying technical information. To establish a universal meaning for each of these symbols, a set of standards have been developed jointly by the Institute of Radio Engineers (I34IRE21S1) and the American Standards Association (Y32.2—1954). Presented here are more than 175 symbols selected from the 67 major categories included in the IRE-ASA standards. These symbols represent those most frequently used in the electronic industries, and may be considered the building blocks of the complete set of standards.

AMPLIFIERS



General:
Triangle points in direction of transmission



Program Amplifier with Associated Variable Attenuator, Feed Back Path, and Power Supply

ANTENNAS

Types or Functions may be indicated by words or abbreviations adjacent to the symbol



General



Dipole



Loop



Counterpoise

ARRESTORS, Gap

For Lightning or Electric Surges



General



Carbon Block



Horn Gap



Protective Gap



Sphere Gap



Multigap

ATTENUATORS



Balanced, General



Unbalanced, General

BATTERIES

Long line always positive; polarity may be indicated in addition



dc source, General



Multicell



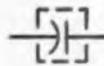
Multicell with 3 taps



Multicell with adjustable tap

CAPACITORS

Curved Electrode represents: Outside Electrode and/or Negative Electrode and/or Moving Element in Variables and/or Low-potential in Feed-thrus



Shielded capacitor



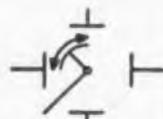
Variable capacitor



Split stator Capacitor
Both parts increase simultaneously



Variable differential capacitor



Phase-shifter capacitor



Feed thru capacitor
(terminals on feed thru element)

CELLS, Photosensitive

λ indicates Element Varies with Light



Asymmetrical Photo Conductive Transducer



Symmetrical Photo Conductive Transducer



Photovoltaic Transducer

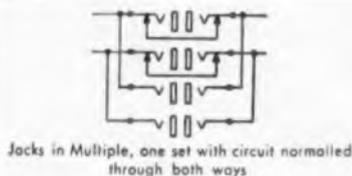
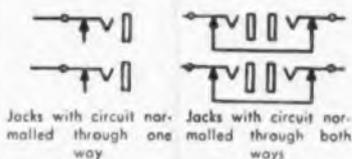
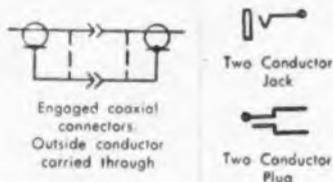
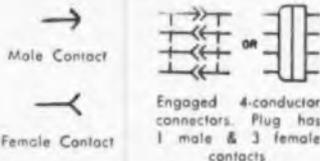
CHASSIS



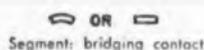
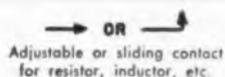
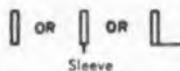
Chassis Frame not necessarily at ground potential

CONNECTORS

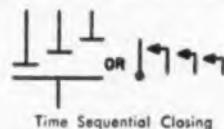
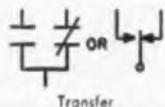
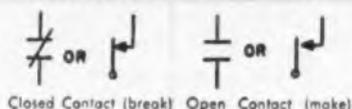
Symbol not an arrow-head, but larger lines at 90°



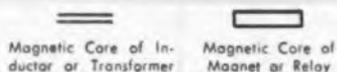
CONTACTS, Electric



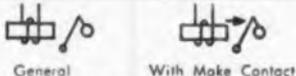
CONTACTS, Electric (Continued)



CORE



COUNTER, Electromagnetic Operated



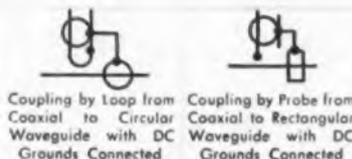
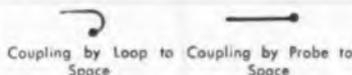
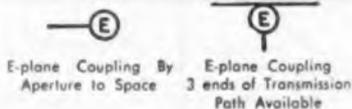
COUPLER, Directional

Arrow Indicates Direction of Power Flow, Number of Coupling Paths, Type of Coupling, and Transmission Loss May Be Indicated

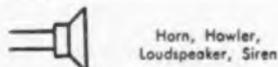


COUPLING

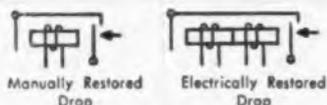
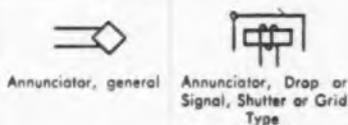
E, H or HE inside circle indicates type of coupling. E indicates plane at aperture is perpendicular to transverse component of major E lines. In H the plane is parallel. HE indicates coupling by all other kinds of apertures. Transmission loss may be indicated.



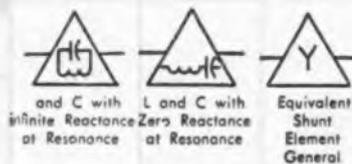
DEVICES, Audible Signal



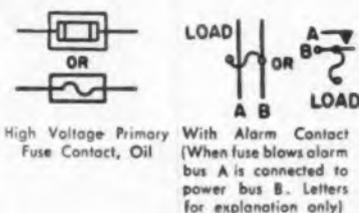
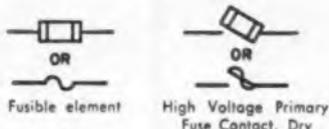
DEVICES, Visual Signal



DISCONTINUITY



FUSES



GROUND



Reliability unmatched... **ALL TUBES**



VIBRATION TEST

SHOCK TEST



TR

ATR

PRC-TR

SHUTTERS

REFERENCE CAVITIES

OVAL TR

PULSED POWER MAGNETRONS

BOMAC *first name*

Reliability... it's the single most important fact about any microwave tube or component. That's why every single Bomac tube and component (*and we make over 750 different types*) is 100% pre-tested for peak performance and uniformity before shipment. Above are a few of the countless ways in which tubes are put through their paces at Bomac.

Bomac stands for reliability you can count on, whatever your needs...



100% PRE-TESTED



HIGH G SHOCK TEST



COLD TEST



MAGNETRON

SILICON DIODES

KLYSTRONS

DUPLEXERS

PRESSURIZING WINDOWS

HIGH FREQUENCY TRIODE OSCILLATOR

SURGE PROTECTORS

in microwave for reliability

Bomac, one of the nation's largest designers and manufacturers of microwave products, offers complete engineering and development services . . . *a complete line of fully tested tubes and components.* For more information, write for Bomac's free, 6-page file-size folder with specifications on more than 700 microwave products.



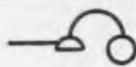
Bomac

LABORATORIES, INC., Salem Road, Beverly, Mass.
Circle 39 on Inquiry Card, page 175

Offices in major cities—Chicago • Kansas City • Los Angeles • Dallas • Dayton • Washington • Seattle • San Francisco • Canada: R-O-R Associates Limited, 1470 Don Mills Road, Don Mills, Ontario • Export: Maurice I. Parisier, 741-745 Washington St., N.Y.C. 14, N.Y.

SEE OUR AD ON INSIDE BACK COVER

HANDSET



General



With push-to-talk switch



3 conductor handset



4 conductor handset with push-to-talk switch

KEY, Telegraph



Simple



Simple with shorting switch



Open circuit or pole changing

LAMP



Ballast Lamp, Tube



4 terminal fluorescent lamp

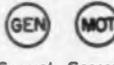


2 terminal fluorescent lamp



Incandescent illuminating lamp

MACHINE, Rotating



General, Generator and Motor



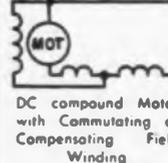
Rotating Armature with Commutator and Brushes



Compensating, or Commutating, Series and Shunt Fields



Generator or Motor dc, Permanent Magnetic Field



DC compound Motor with Commutating or Compensating Field Winding



1 Phase Hysteresis Motor



Reluctance Motor



Synchronous Motor with Neutral brought out

MAGNET, Permanent



METERS



A letter or letter combination from the following list shall be placed within the circle to indicate the function of the meter or instrument unless some other identification is provided in the circle and explained on the diagram.

- A Ammeter
- AH Ampere-hour meter
- CMA Contact-making (or breaking) ammeter
- CMC Contact-making (or breaking) clock
- CMV Contact-making (or breaking) voltmeter
- CRO Oscilloscope or cathode-ray oscillograph
- D Demand meter
- DB DB (decibel) meter
- DBM DBM (decibels referred to 1 milliwatt) meter
- DTR Demand-totalizing relay
- F Frequency meter
- G Galvanometer
- GD Ground detector
- I Indicating
- M Integrating
- μA or UA Microammeter
- MA Milliammeter
- N Noise meter
- OHM Ohmmeter
- OP Oil pressure
- OSCG Oscillograph, string
- PH Phase meter
- PI Position indicator
- PF Power-factor meter
- RD Recording demand meter
- REC Recording
- RF Reactive-factor meter
- S Synchroscope
- TLM Telemeter
- T Temperature meter
- TT Total time
- VH Varhour meter
- V Voltmeter
- VA Volt-ammeter
- VAR Varmeter
- VI Volume indicator
- VU Standard volume indicator
- W Wattmeter
- WH Watthour meter

MICROPHONE



RELAYS



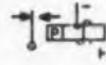
Relay, basic



Relay coil



2-pole, double make



Polarized Relay with Transfer Contact



Relay Protective Function Balance, General

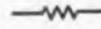


Relay Protective Function under, General

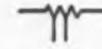


Relay Protective Functional Differential, General

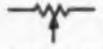
RESISTORS



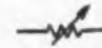
General



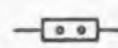
Tapped Resistor



Resistor with Adjustable Control



Adjustable or Continuously Variable Resistor



Instrument or relay shunt

RESONATORS



General: Common for coax and waveguide

SHIELDING

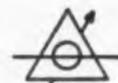


Normally used for electric or magnetic shielding. For other shielding, note should so indicate

SHIFTER, Phase



General



Adjustable

SUPPRESSION, Mode



Commonly Used in Coax and Waveguide

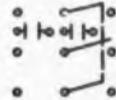
SWITCHES



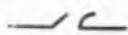
General Single Throw



2-pole double-throw switch showing terminals



3-pole double-throw knife switch with auxiliary contacts and terminals



Switch with horn gap



Pushbutton make switch spring return



Toggle



Key Relay Jack



2 position Key Switch with Locking Transfer and Break Contacts



Wafer, 3 pole, 3 circuit with 2 non-short & 1 shorting moving contacts



10 point selector switch with fixed segments



Safety Interlock Circuit Opening

SYNCHROS



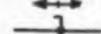
Synchro, general

If identification is required, add abbreviations
 CDX—Control Differential Synchro Transmitter
 CT—Synchro Control Transmitter
 CX—Synchro Control Transmitter
 TDR—Torque Differential Synchro Receiver
 TDX—Torque Differential Synchro Transmitter
 TR—Torque Synchro Receiver
 TX—Torque Synchro Transmitter

TERMINATIONS



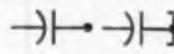
Cable Termination



Short Circuit, Movable Common for Coax and Waveguide



Terminating Resistor Common for Coax and Waveguide



Path Open Path Shorted Common for Coax and Terminating Series Capacitor

THERMISTORS



THERMOCOUPLES



Temperature Measuring Thermocouple

TRANSDUCERS, Mode



General, commonly used in coax and waveguide



Transducer from rectangular to circular waveguide

TRANSFORMERS



General



Shielded Transformer with Magnetic Core



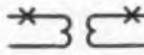
One Winding with Tap, one Winding Adjustable



3-phase Induction Regulator



Current Transformer, Polarity Marked



Potential Transformer Polarity Marked



Delta Transformer Connections 3-phase



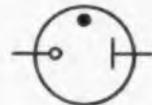
Wye Transformer Connections 3-phase

NOTE: IRE, ASA standards provide two types of symbols, single line and complete. Single line symbols are intended to show essential components and functions in simplified form. Complete diagrams indicate the complete circuit and the devices used therein. In some cases, only a single or complete symbol is available for a particular component. Where a choice of single or complete is available, the complete type is used here, with the exception of amplifiers, adjustable phase shifters, and synchros, where more common usage has dictated the use of single line forms.

TUBES, Electron



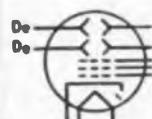
Triode, Indirectly Heated Cathode. Add grids or tetrode, pentode, etc.



Cold Cathode Gas Tube, Rectifier, regulator for dc



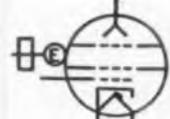
Photomultiplier Tube



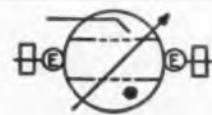
Cathode-ray Tube with Electrostatic Deflection. Remove Dc for Magnetic Deflection



Magnetron Tunable, Loop Coupled



Reflex Klystron Integral Cavity, Aperture Coupled



Transmit Receive (TR) Tube. Gas filled, tunable integral cavity, aperture coupled, with starter



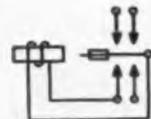
UHF triode (disk-seal type) with internal capacitor. Tube terminals added as shown where desired

CRYSTALS

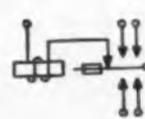


Piezoelectric Crystal

VIBRATORS



Shunt Drive Vibrator



Series Drive Vibrator

1001 USES

for these versatile, low cost switches

HIGHER RATINGS: Over 6 types with 3-amp, 125v ac U.L. ratings for small motors, appliances, etc. 1/2- and 1-amp ratings for others.

1 TO 3 POLES in compact, easily-mounted cases.

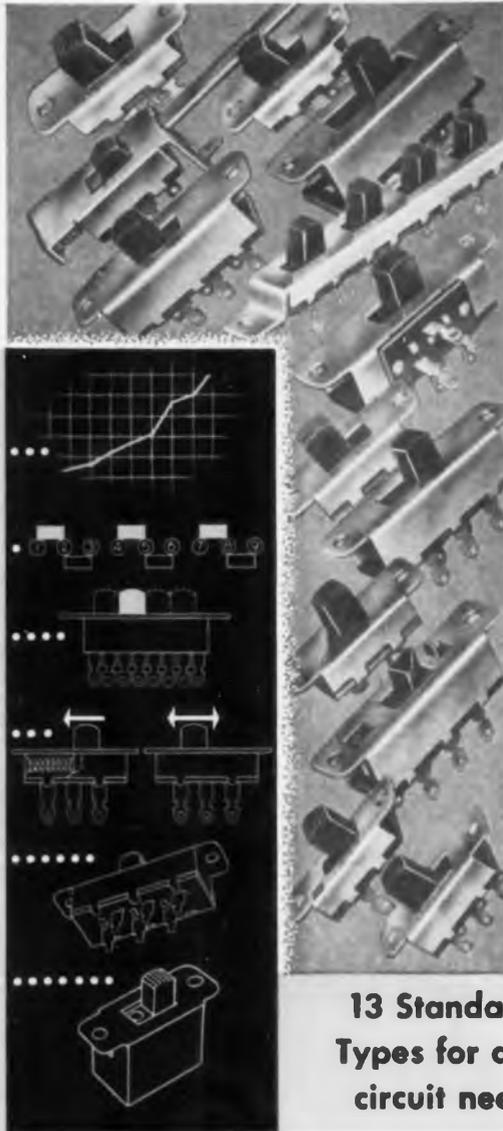
UP TO 4 POSITIONS with positive, sliding action that lends a modern touch to any product.

MOMENTARY OR MAINTAINED CONTACT in slide, pushbutton, or plunger-operated types.

PRINTED CIRCUIT TERMINALS optional on all types.

TERMINAL SHIELDS to meet Underwriters' requirements available for all types.

MANY STANDARD "SPECIALS" stocked for immediate delivery. Typical types include: Type SS-5 with line cord prong guide for use as "battery-line" changeover switch in portable radios. Type SS-19 an SPDT plunger switch with spring return. Type SS-21 four-gang, SPDT on a common base.



**13 Standard
Types for any
circuit need**



STACKPOLE

S-l-i-d-e SWITCHES

Electronic Components Division
STACKPOLE CARBON COMPANY
St. Marys, Pa.

In Canada: Canadian Stackpole, Ltd., 590 Evans Ave., Etobicoke, Toronto 14, Ont.

Fixed and Variable composition resistors • Snap and Slide switches
Ceromag® ferromagnetic cores
Fixed composition capacitors • Iron cores • Ceramagnet® ceramic magnets
Brushes for all rotating electrical equipment
Electrical contacts and hundreds of related carbon, graphite and metal powder products

About that Book

(Continued from page 193)

logs of the several hundred publishers who publish technical books, and learn what fields they seem to be interested in. Pick out the most logical one, and send off your material. You can be sure that he will want to see it, because new books are the life blood of the book publisher. If you get a rejection slip back with the material do not give up the struggle, since there are many reasons why he may not be able to use your book at this time. Choose another, and try again.

What to Look for in a Publisher

To choose the right publisher is of paramount importance, and the following four factors should be weighed:

1. Financial stability. Many authors think about this last, if they think of it at all; but to enter into an agreement with a firm that does not pay its royalties is much worse than useless.

2. The quality of the publisher's list. Most tend to specialize to some extent, and it is nearly always wise to select a firm noted for the kind of book you have in mind.

3. The strength of the publisher's selling organization or channels of distribution. This would often exclude the very small or new firms.

4. The desirability of having a publisher who will take a personal interest in your work. This would sometimes exclude the very largest firms.

The advantages of remaining loyal to one publisher are many; the disadvantages few.

How to Submit Material

All publishers will give you a gold star if you will send in material that is neatly typed on one side of the paper only, with at least 1-inch margins on all four sides, on a fair grade of bond paper, 8½ x 11 in. size; double space your typing. The following check list will help:

1. Send the original, not a carbon, but be sure to retain a carbon copy at home.

2. All text references to tables, footnotes, illustrations, bibliography, chapters etc., should be checked for accuracy.

3. Permissions must be obtained from copyright owner for all borrowed quotations and/or illustrations, and should be forwarded at time manuscript is released.

4. All photographs should be mounted on cardboard and protected by a sheet of paper pasted on the back and folded over the face of the picture.

5. Legends for illustrations should be typed on 8½ x 11 in. paper, one side, double spaced, with a triple space between each entire legend. The legend number and the number on the illustration must correspond.

6. A list of preferred spellings in the field of the text should accompany the manuscript. For example, the American Standards Assoc. has approved styles to follow for Physics, Refrigeration, Gear Engineering, Chemical Engineering, Thermodynamics, Hydraulics, and so on.

Your publisher will supply you with complete information as to his requirements in this regard, and it is often a great time saver to have and follow these details in writing your book. That is why it is important to approach the publisher prior to the actual writing, by sending the outline and a sample chapter upon which an agreement can be drawn up, and then with a contract signed, to go ahead and write your book.

Contract and Copyright Pointers

There are so many misconceptions about contracts and the copyright law that it is not possible to set it completely straight in this space. A complete and mutually satisfactory agreement between the author and the publisher should always be reduced to clear and understandable writing.

Equally important as the contract, which is after all a fairly well settled and routine matter in these days with a recommended or model agreement drawn up by the Author's Guild, is an understanding of the marketing procedure of the publisher and of his conception of the market for your particular book. This is gained only by an exchange of ideas by letter or personal discussion, and is most useful to both parties for the full exploitation of the work.

Other Rewards

In addition to authoring your own book or magazine article, you may find opportunity to review manuscripts for publishers (if you are a recognized authority) and you may also be asked to contribute to books being done by a group of authors, work on a research paper or series, or become an editorial consultant. All these useful activities may be yours if you simply take the time to develop your writing ability, have something to say, and say it clearly. Perhaps the major reward is in your own satisfaction of your contribution to our technical and human progress in a world where books have led to a greater expansion of the human spirit through scientific and technical development. In any event you owe it to yourself to express your experience in black and white.

MEASUREMENTS' New STANDARD PULSE GENERATOR



MODEL 179

The Model 179 is uniquely suited for production and laboratory work where pulses of known repetition rate and width are required. It is extensively used in TV, radar, computer and nuclear fields.

- Wide, calibrated frequency range — 80 cps to 100 Kc
- Continuously variable calibrated pulse width
- Triggers and free-running operation
- High-amplitude positive and negative pulses... +200 v to -150 v



WRITE FOR
BULLETIN

Circle 62 on Inquiry Card, page 175

A Review of

New Electronic Textbooks

A compilation of those textbooks, published in 1957 and 1958, which should be of interest to electronic engineers. For convenience, books are divided into categories of broad interest.

AUDIO

Technical Aspects of Sound, Volume II

Edited by E. G. Richardson. 412 pages, xii pages. Price \$11.75. (DV)

Acoustical Engineering

By Harry F. Olson. 718 pages, xix pages. Price \$13.50. (DV)

The Electrical Production of Music

By Alan W. Douglas. 823 pages. Price \$12.00. (PL)

Stereophonic Sound

By Norman H. Crouhurst. 128 pages. Price \$2.25. (JR)

Elements of Magnetic Tape Recording

By N. M. Haynes. 405 pages. Price \$7.95. (PH)

How to Use a Tape Recorder

By Dick Hodgson and H. Jay Bullen. 216 pages, 24 pages. Price \$4.95. (HH)

Techniques of Magnetic Recording

By Joel Tall. 472 pages. Price \$7.95. (MC)

AUTOMATIC CONTROL

Analytical Design of Linear Feedback Controls

By G. C. Newton, Jr., L. A. Gould, and J. F. Kaiser. 430 pages. Price \$12.00 (JW)

Basic Automatic Control Theory

By Gordon J. Murphy. 557 pages, xi pages. Price \$10.75. (DV)

Automatic Control: Principles & Practice

By Werner G. Holzbock. 282 pages. Price \$7.50. (RP)

The Gyroscope: Theory and Application

By James B. Scarborough. 269 pages. Price \$6.50. (IP)

CIRCUITRY

Feedback Theory and Its Applications

By P. H. Hammond. 348 pages. Price \$7.00. (MC)

Transmission Circuits

By Everard M. Williams and James B. Woodford, Jr. 156 pages, ix pages. Price \$4.25. (MC)

Electrical Engineering Circuits

By Hugh Hildreth Skilling. 724 pages, xi pages. Price \$8.75. (JW)

Transistor Circuit Engineering

Edited by Richard F. Shea. 468 pages, xx pages. Price \$12.00. (JW)

Synthesis of Passive Networks

By Ernest A. Guillemin. 759 pages. Price \$15.00. (JW)

Magnetic-Amplifier Circuits, Basic Principles, Characteristics, and Applications

By William A. Geyger. (MH)

Transistor Circuits and Applications

Edited by John M. Carroll. 294 pages. Price \$7.50. (MH)

Electronic Designers Handbook

By R. W. Landee, D. C. Davis, and A. P. Albrecht. 1200 pages. Price \$16.50. (MH)

Passive Network Synthesis

By James E. Stoyer. 329 pages. Price \$8.50. (MH)

Abbreviations

AP	Academic Press
DV	D. Van Nostrand
GL	Gernsback
HH	Hastings House
IP	Interscience
JR	John F. Rider
JW	John Wiley
MC	Macmillan
MH	McGraw-Hill
PC	Pitman
PH	Prentice-Hall
PL	Philosophical
PP	Pergamon Press
PT	Philips
RC	Rinehart
RP	Reinhold

Addresses of publishers at end of text.

An Introduction to Transistor Circuits

By E. H. Cooke/Yarborough. 166 pages. Price \$2.75. (IP)

L-C Oscillators

By Alexander Schure. 66 pages, vi pages. Price \$1.25. (JR)

Resonant Circuits

By Alexander Schure. 68 pages, vi pages. Price \$1.25. (JR)

Conductance Curve Design Manual

By Keats A. Pullen, Jr. 128 pages. Price \$4.25. (JR)

Impedance Matching

By Alexander Schure. 150 pages. Price \$2.90. (JR)

D-C Circuit Analysis

By Alexander Schure. 80 pages. Price \$1.35. (JR)

Understanding Hi-Fi Circuits

By Norman H. Crouhurst. 224 pages. Price \$2.90. (GL)

Transistor Circuits

By Rufus P. Turner. 160 pages. Price \$2.75. (GL)

Elements of Tape Recorder Circuits

By Herman Burstein and Henry C. Pollak. 224 pages. Price \$2.90. (GL)

Switching Circuits and Logical Design

By Caldwell. 958 pages. Price \$12.50. (JW)

Modern Transistor Circuits

By Carroll. 298 pages. Price \$7.50. (MH)

Electron-Tube Circuits, 2d Ed.

By Seely. 688 pages. Price \$10.50. (MH)

COMPUTERS

Digital Computer Components and Circuits

By R. K. Richards. 523 pages. Price \$10.75. (DV)

Digital Computer Components and Circuits

By R. K. Richards. 518 pages. Price \$10.75. (DV)

(Continued on page 206)



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San Jose, Calif. Peninsula TV & Radio
Utica, N. Y. Valley Electronic

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(Continued from page 205)

Computers, Their Operation and Applications

By Edmund C. Berkeley and Lawrence A. Wainwright. 366 pages. Price \$8.00. (RP)

Computing with Desk Calculators

By Walter W. Varner. 108 pages. viii pages. (RC)

Digital Computer Programming

By D. D. McCracken. 258 pages, vii pages. Price \$7.75. (JW)

Mathematics and Computers

By George R. Stibitz and Jules A. Larribee. (MH)

EDUCATION

Differential Equations, Applied in Science and Engineering

By Harold Wayland. 363 pages, xiii pages. Price \$7.50. (DV)

Introduction to Electrical Applied Physics

By N. F. Astbury. 241 pages, xi pages. Price \$10.00. (PL)

Elements of Pure and Applied Mathematics

By Harry Lass. 491 pages. Price \$7.50. (MH)

Soviet Education for Science and Technology

By Alexander G. Korol. 530 pages. Price \$8.50. (JW)

Physics & Mathematics in Electrical Communication

By James Owen Perrine. 268 pages. Price \$7.50. (JR)

The Fundamentals Constants of Physics

By E. Richard Cohen, Kenneth M. Crowe and Jesse W. M. DuMond. 500 pages. Price \$7.50. (IP)

ELECTRON DEVICES

Electron Tubes and Semiconductors

By Joseph J. De France. 320 pages. Price \$9.00. (PH)

Transistor Physics and Circuits

By Riddle and Ristenblatt. 448 pages. Price \$10.00. (PH)

TV and Radio Tube Troubles

By Sol Heller. 224 pages. Price \$2.90. (GL)

Symposium on the Role of Solid State Phenomena in Electric Circuits, Vol. VII

358 pages. Price \$5.00. (IP)

Transistor Technology

Edited by H. E. Bridgers, J. H. Scaff and J. N. Shive. 650 pages. Price \$17.50. (DV)

Receiving Tube Substitution Guidebook

By H. A. Middleton. 244 pages. Price \$5.00. (JR)

TV Picture Tube-Chassis Guide

72 pages. Price \$1.35. (JR)

Transistor A. F. Amplifiers

By D. D. Jones and R. A. Hilbourne. 160 pages. Price \$6.00. (PL)

Selection and Application of Metallic Rectifiers

By S. P. Jackson. 340 pages. Price \$8.00. (MH)

Transistor Electronics

By David DeWitt and Arthur L. Rosoff. 392 pages. Price \$5.00. (MH)

Industrial Rectifying Tubes

116 pages. Price \$2.15. (PT)

An Introduction to Junction Transistor Theory

By R. D. Middlebrook. 296 pages. xiv pages. Price \$8.50. (JW)

An Introduction to Semiconductors

By W. Crawford Dunlap, Jr. 317 pages. xxi pages. Price \$11.75. (JW)

Equivalent Radio Tubes, 13th Edition

Edited by Dr. J. A. Gijzen. Published by T. H. Brans, Ltd., Antwerp, Belgium. 342 pages.

Progress in Semiconductors, Vol. II

Edited by A. F. Gibson, P. Aigrain, R. E. Burgess. 287 pages. Price \$10.50. (JW)

Fundamentals of Electron Devices

By Spangenberg. 600 pages. Price \$10.00. (MH)

Electronic Components Handbook

By Henney. 224 pages. Price \$9.00. (MH)

Electronic Semiconductors

By Spenke. 394 pages. Price \$11.00. (MH)

GENERAL

Engineering Electronics

By Ryler. 698 pages. Price \$9.50. (MH)

Mechanical Design for Electronics Production

By Carroll. 348 pages. Price \$4.50. (MH)

An Introduction to the Theory of Random Signals and Noise

By Davenport. 393 pages. Price \$10.00. (MH)

Foundations of Information Theory

By Feinstein. Price \$6.50. (MH)

Electrical Discharges in Gases

By F. M. Penning. 83 pages. Price \$3.00. (MC)

Ideas, Inventions, and Patents

By Robert A. Buckles. 285 pages. Price \$5.95. (JW)

Scientific French

By William N. Locke. 112 pages, x pages. Price \$2.25. (JW)

Scientific German

By George E. Comdyannia. 164 pages, x pages. Price \$2.50. (JW)

Engineering Properties and Applications of Plastics

By Gilbert F. Kinney. 285 pages. Price \$6.75. (JW)

On Human Communication

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Edited by W. D. Kingery. 246 pages. Price \$9.50. (JW)

Marine Electrical Practice

By G. O. Watson. 333 pages. Price \$12.00. (PL)

Radio Aids to Air Navigation

By J. H. H. Grover. 138 pages, 2 pages. Price \$6.00. (PL)

System Engineering

By Harry H. Goode and Robert E. Muchol. 551 pages. Price \$10.00. (MH)

INDUSTRIAL ELECTRONICS

Industrial Electronics Circuits

By R. Kretzmann. 198 pages. Price \$10.00. (PL)

Industrial Electronics Handbook

By R. Kretzmann. 302 pages. Price \$12.00. (PL)

Electric Circuits and Machines

By Robertson. 456 pages. Price \$6.75. (DV)

Industrial Control Circuits

By Sidney Platt. 200 pages. Price \$3.90. (JK)

Proceedings of the ELL Symposium in Numerical Control Systems for Machine Tools

111 pages. Price \$5.00. (IP)

INSTRUMENTATION

Principles of Electrical Measurements

By H. Buckingham and H. M. Price. 629 pages. Price \$15.00. (PL)

Installing Electronic Data Processing Systems

By Richard G. Canning. 206 pages. Price \$6.00. (JW)

Electrical Measurements and Their Applications

By Michels. 331 pages. Price \$6.75. (DV)

Microwave Measurements

By Gintzon. 494 pages. Price \$12.00. (MH)

NUCLEAR SCIENCE

Safety Aspects of Nuclear Reactors

By C. Rogers McCullough. 249 pages. Price \$8.50. (DV)

An Introduction to Reactor Physics, Revised 2nd Ed.

By D. A. Littler and J. P. Raffle. 208 pages. Price \$3.50. (PP)

Neutron Cross-Sections

By Donald J. Hughes. 182 pages. Price \$5.00. (PP)

A Glossary of Terms in Nuclear Science and Technology

Published by the American Society of Mechanical Engineers, 29 W. 39th St., New York 18. 188 pages, paper bound. Price \$3.00.

(Continued on page 209)



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(Continued from page 207)

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Television Receiving Equipment

By W. T. Cooking. 454 pages, 42 pages.
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Receiving Aerial Systems

By I. A. Davidson. 152 pages. Price \$4.75
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By D. H. Fisher. 136 pages, 240 pages.
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Foundations of Radio

By M. G. Scroggie. 348 pages. Price
\$10.00. (PL)

Servicing Color TV

By Robert Middleton. 224 pages. Price
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TELEVISION ENGINEERING

Television Engineering, Principles and Practice, Volume 3

By S. W. Amos and D. C. Birkinshaw.
226 pages. Price \$15.00. (PL)

Television Engineering Handbook

Edited by Donald G. Fink. 1496 pages.
Price \$18.00. (MH)

Closed Circuit TV System Planning

By M. A. Meyers and R. D. Chipp. 264
pages. Price 10.00 (JK)

Television in Science and Industry

By V. K. Zworykin, E. G. Ramberg, and
L. E. Flory. 300 pages. Price \$10.00.
(JW)

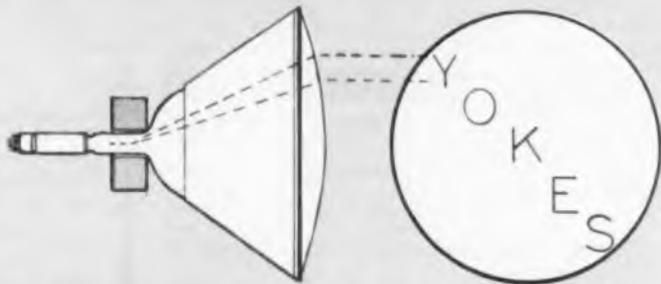
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330 West 42nd St., New York 36, N. Y.
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430 Park Avenue, New York 22, N. Y.
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Type P4-59 4-foot antenna with waveguide horn for 5925-6425 mc.

A wide selection of standard models in a complete range of sizes and frequencies is stocked for immediate delivery. Special antennas are designed and manufactured to meet individual requirements. Here is a representative selection of stock antennas.

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Frequency Range (MC)	ANDREW Type Number			
	4 ft. dia.	6 ft. dia.	8 ft. dia.	10 ft. dia.
890-960	P4-8	P6-8		P10-8
1700-1850	P4-17	P6-17		P10-17
1850-1990	P4-18	P6-18		P10-18
1990-2110	P4-18	P6-18		P10-18
2450-2700	P4-24	P6-24		P10-24
3700-4200			P8-37	
5925-6425	P4-59	P6-59	P8-59	P10-59
6575-7125	P4-65	P6-65	P8-65	P10-65
7125-7425	P4-71	P6-71	P8-71	P10-71

Tower or roof mounts are available for all sizes of ANDREW parabolic antennas. They must be ordered separately. T4 is a tower mount for four or six-foot antennas. For roof mounting, order Type M4. Mounts for eight and ten-foot antennas are designed for either tower or roof mounting. Order Type T8 for either of these antennas. Most standard ANDREW mounts include elevation and azimuth adjustments of at least $\pm 5^\circ$.

Dish and feed heaters are available as standard items and are recommended for antennas above 5000 mc in ice areas.

COMMUNICATIONS ANTENNAS



FOLDED UNIPOLES—(25 mc to 174 mc), omnidirectional. The ideal fixed station transmitting and receiving antenna. Inexpensive, lightweight and easy to install. Some lower frequency models incorporate new design changes which increase wind load ratings and eliminate field cutting of vertical elements to frequency.

HIGH GAIN—for 148-174 mc, 400-470 mc. ANDREW High Gain omnidirectional antennas will increase your coverage and multiply benefits by the number of mobile units in the system. Type numbers, frequency and gain are shown below.

Omnidirectional Pattern		
Type 3000	148-174 mc	6.3 db
Type 3006	148-174 mc	9.0 db
Type 212	450-470 mc	10.0 db
Type 4000	450-470 mc	7.6 db
Type 4002	450-470 mc	5.0 db
Type 4010	400-420 mc	7.5 db

Offset Omnidirectional Pattern		
Type 201	450-470 mc	10.8 db in max. dir.
Type 3004	148-174 mc	8.1 db in max. dir.

CORNER REFLECTORS. Unidirectional antennas for 25-174 mc, 400-470 mc, and 890-960 mc. Preferred for their high gain and stable operation under severe weather conditions. Also may be utilized for low power TV transmitting in directional and omnidirectional arrays.

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Tele-Tech's ELECTRONIC OPERATIONS

The Systems Engineering Section of ELECTRONICS INDUSTRIES • June 1958

Microwave Reflector Gain Chart

THE gain produced by the concentration of microwave radiation into a beam by a reflector with rectangular aperture as compared to omnidirectional transmission is given by:

$$\text{Gain} = 4\pi f(ab/\lambda^2) \quad (1)$$

where a and b are the aperture dimensions, λ is the radiation wavelength and f is a utilization or efficiency factor. For a circular aperture of diameter, d , eq. (1) is modified and becomes:

$$\text{Gain} = (\pi d/\lambda)^2 f \quad (2)$$

The application of these equations is restricted to apertures of dimensions which are large compared to the wavelength and which have constant phase distribution over the area. The calculated gain is applicable to that portion of the feed power which is incident upon the reflector and does not account for spill-over effects. The utilization factor, f , is unity for uniform field distribution over the aperture, but since this type of illumination produces excessive minor lobes for many applications the distribution is generally tapered toward the edges to minimize discontinuity effects. A compromise between minor lobe suppression and maximum gain generally results in values of f between 0.5 and 0.7.

In the design of a microwave reflector it is generally necessary to inspect the relation between aperture area and gain which requires repetitious solutions of eq. (1) or (2). The design chart has been prepared to reduce the labor of examining the variation between gain and dish area for a given wavelength and reflector efficiency. A conversion factor has been applied to permit diameters scaled in feet to be used.

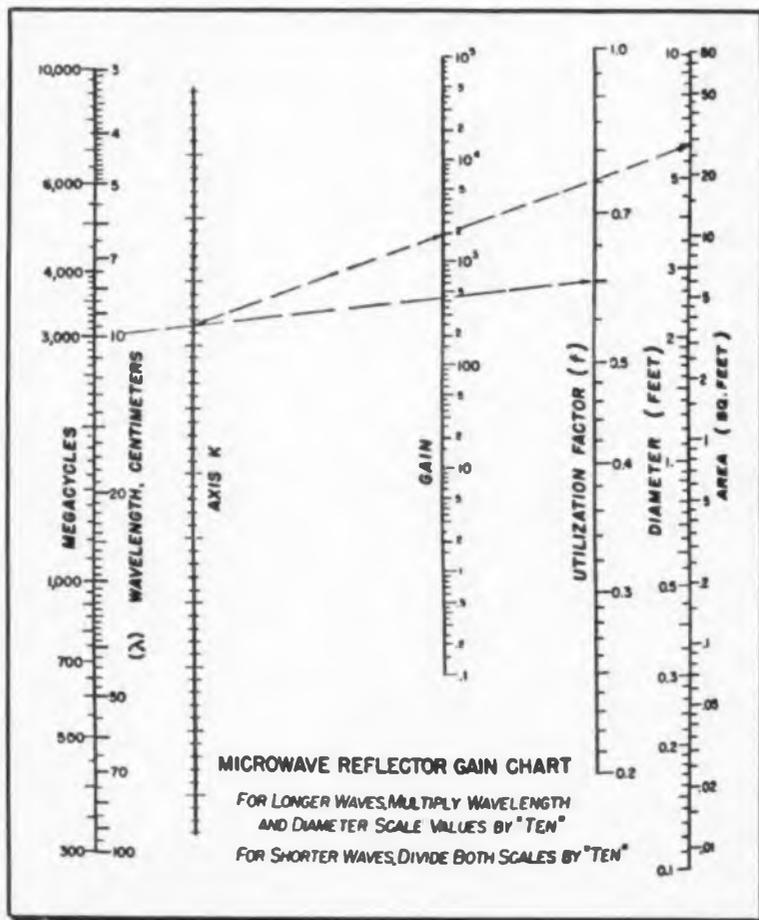
The chart is used by constructing a straight line between the system wavelength (in cms) on the λ scale

and the utilization factor on the f scale. The intersection of this line and the K scale determines a turning point, and a straight line from the turning point to the assumed area, axb , or diameter, d , on the extreme right-hand scale shows the gain at the point of intersection with the gain scale.

Example: Determine the gain of

a paraboloid 6 feet in diameter at 10 centimeters with an illumination efficiency of 0.6.

From 10 on the λ scale draw a straight line to 0.6 on the f scale, and establish a turning point on axis K. From the turning point construct a straight line to 6 on the d scale and find 2000 on the gain scale.



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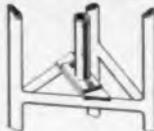
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Determining VHF Line-of-Sight

Simple nomograph eliminates the need for plotting profiles in cases where there are only one or two major obstructions

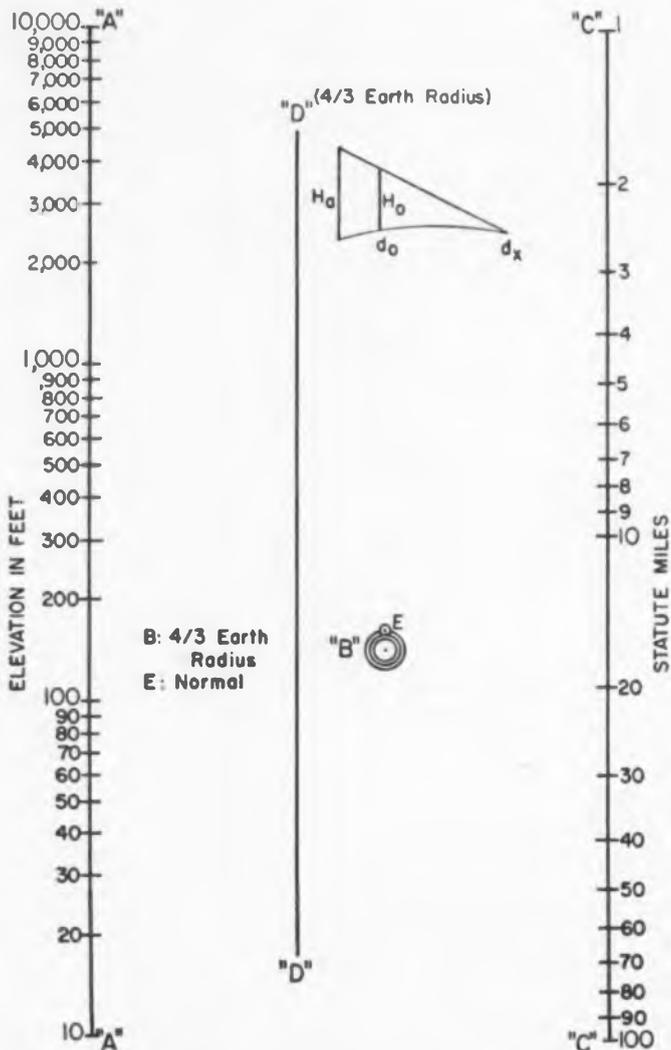
By GEORGE MATHER,

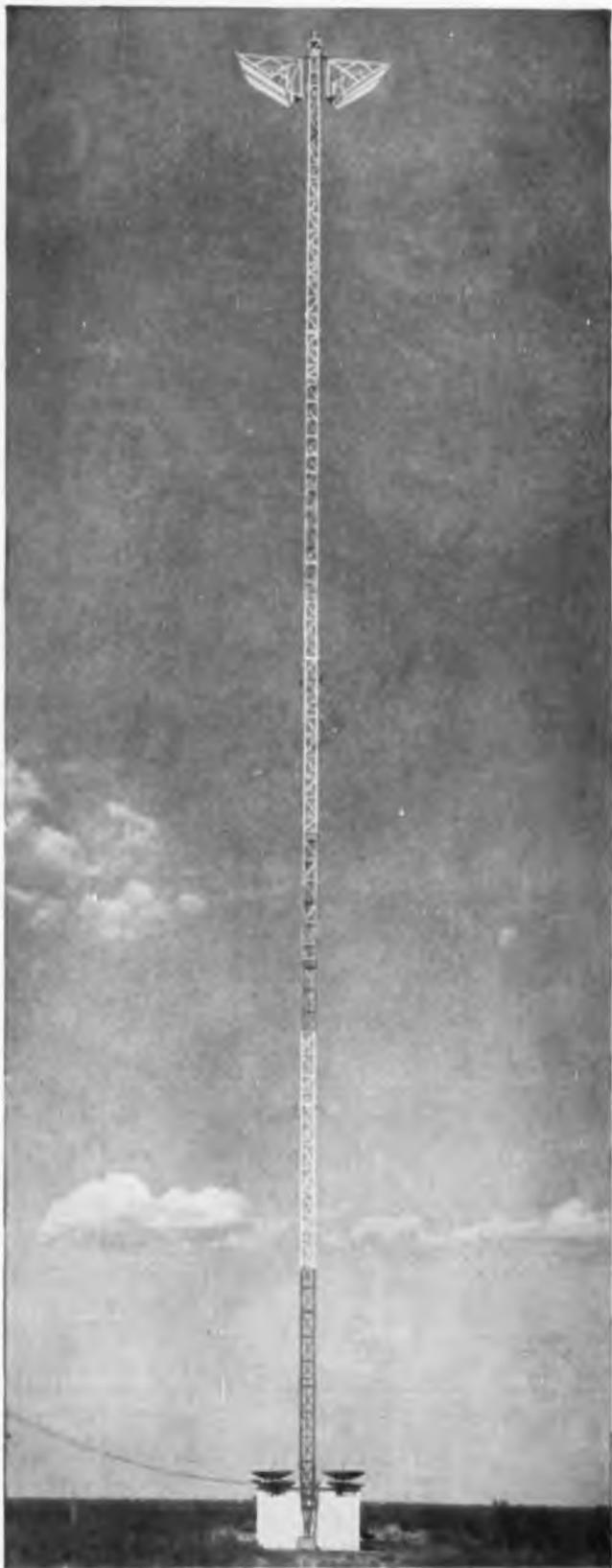
Geo. Mather Assoc.
Port Credit, Ont., Canada

Line of Sight—Plot antenna height (H_a) on Scale A. Join A, B and C.

Shadow Depth—Plot d_o on Scale C and join to (H_a minus H_o) Scale A, mark intersect on Scale D; from H_o on Scale A join through

intersect on Scale D to d_x on Scale C. Shadow depth is (d_x minus d_o). (Note: for improved accuracy H_o will include line of sight elevation equivalent to d_o , i.e. from d_o , Scale C through B to A.)





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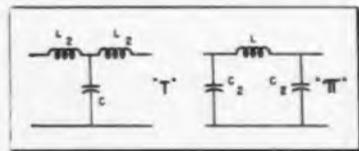
Filter Element Nomographs

By RALPH DAVIDSON

THE following nomographs were developed to provide a fast and accurate method for calculating the reactive elements of a high-pass or low-pass constant "K" type filter. These values can also be used in determining reactive elements for "M" type filters by substituting in the appropriate formulas. The frequency ranges of the nomographs are practical for nearly any constant "K" type filter problem in the audio and radio frequencies.

These nomographs solve the following formulas:

Low-Pass Constant "K" type:

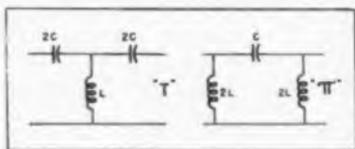


$$C_k = \frac{1}{\pi f_c Z_0} \quad L_k = \frac{Z_0}{\pi f_c}$$

where C_k is the shunt capacitance
 L_k is the series inductance
 f_c is the cut-off frequency

Z_0 is the characteristic impedance

High-Pass Constant "K" type:



$$C_k = \frac{1}{4\pi f_c Z_0} \quad L_k = \frac{Z_0}{4\pi f_c}$$

where C_k is the series capacitance
 L_k is the shunt inductance
 f_c is the cut-off frequency
 Z_0 is the characteristic impedance

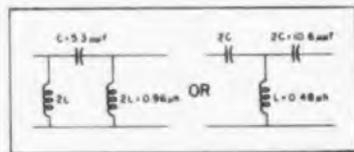
The two nomographs on the next page cover the following frequencies and constant "K" filter types for characteristic impedances of 10 ohms to 100 K:

1. High-pass filter, 1 mc to 10 kmc.
2. Low-pass filter, 1mc to 10 kmc.

It will be demonstrated how these frequency scales may be extended to cover the entire spectrum.

How to Use Nomographs

For example, suppose a high-pass filter is needed to remove all interfering signals below 50 mc from a TV receiver with 300-ohm input impedance. Turning to Nomograph 1, a line is drawn from 50 mc, the "critical freq. for capacity" on the extreme right scale, to 300 ohms on the left "characteristic impedance" scale. The desired capacitance is where this line crosses the "series capacity" scale, in this case 5.3 μ f. Similarly, by drawing a line from 300 ohms to the "critical freq. for inductance" scale at the right, the shunt inductance value of 0.48 μ h is obtained from the left-center scale. Combining these reactive elements in a "pi" or "T" structure results in the following filter:



(Continued on page 07)

TYPE	REQUIRED CHAR.	STRUCTURE		ELEMENT CONSTANTS				CHARACTERISTIC POINTS			
		π	T	C_1	L_1	C_2	L_2	PASSBAND Z_0	f_{∞}	f_c	$\frac{f_{\infty}}{f_c}$
K_1	ATT				$\frac{Z_0}{\pi f_c}$	$\frac{1}{\pi f_c Z_0}$		$\sqrt{\frac{L_1}{C_2}}$	∞	$\frac{1}{\pi \sqrt{L_1 C_2}}$	∞
Σ_1	ATT				mL_k	mC_k	$\frac{1-m^2}{4m} L_k$	$\sqrt{\frac{L_1}{C_2}}$	$\frac{1}{2\pi \sqrt{L_2 C_2}}$	$\frac{1}{\pi \sqrt{C_2(L_1 + 4L_2)}}$	$\sqrt{1 + \frac{L_1}{4L_2}}$
m_2	ATT			$\frac{1-m^2}{4m} C_k$	mL_k	mC_k		$\sqrt{\frac{L_1}{C_2}}$	$\frac{1}{2\pi \sqrt{L_1 C_1}}$	$\frac{1}{\pi \sqrt{L_1(C_2 + 4C_1)}}$	$\sqrt{1 + \frac{C_2}{4C_1}}$
K_2	ATT			$\frac{1}{4\pi f_c Z_0}$			$\frac{Z_0}{4\pi f_c}$	$\sqrt{\frac{L_2}{C_1}}$	0	$\frac{1}{4\pi \sqrt{L_2 C_1}}$	∞
Σ_2	ATT			$\frac{C_k}{m}$		$\frac{4m}{1-m^2} C_k$	$\frac{L_k}{m}$	$\sqrt{\frac{L_2}{C_1}}$	$\frac{1}{2\pi \sqrt{L_2 C_2}}$	$\frac{1}{4\pi \sqrt{L_2 C_1 + \frac{4}{L_2 C_2}}}$	$\sqrt{1 + \frac{C_2}{4C_1}}$
m_2	ATT			$\frac{C_k}{m}$	$\frac{4m}{1-m^2} L_k$		$\frac{L_k}{m}$	$\sqrt{\frac{L_2}{C_1}}$	$\frac{1}{2\pi \sqrt{L_1 C_1}}$	$\frac{1}{4\pi \sqrt{L_2 C_2 + \frac{4}{L_1 C_1}}}$	$\sqrt{1 + \frac{L_1}{4L_2}}$

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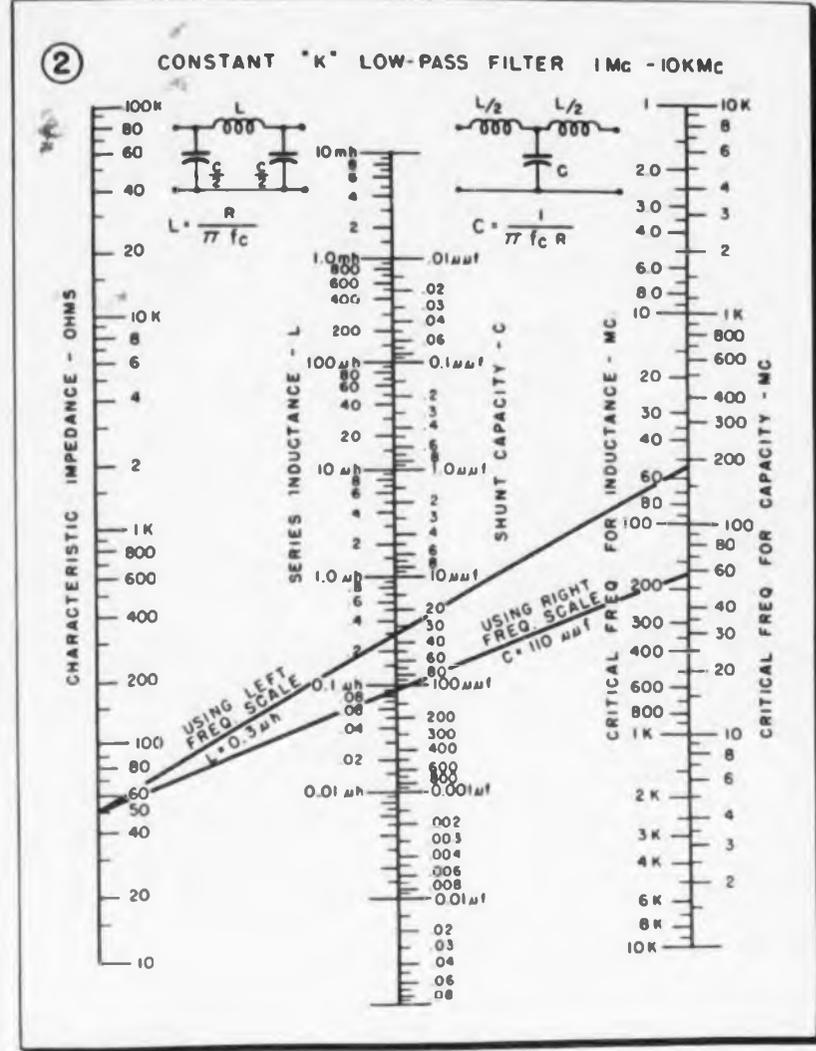
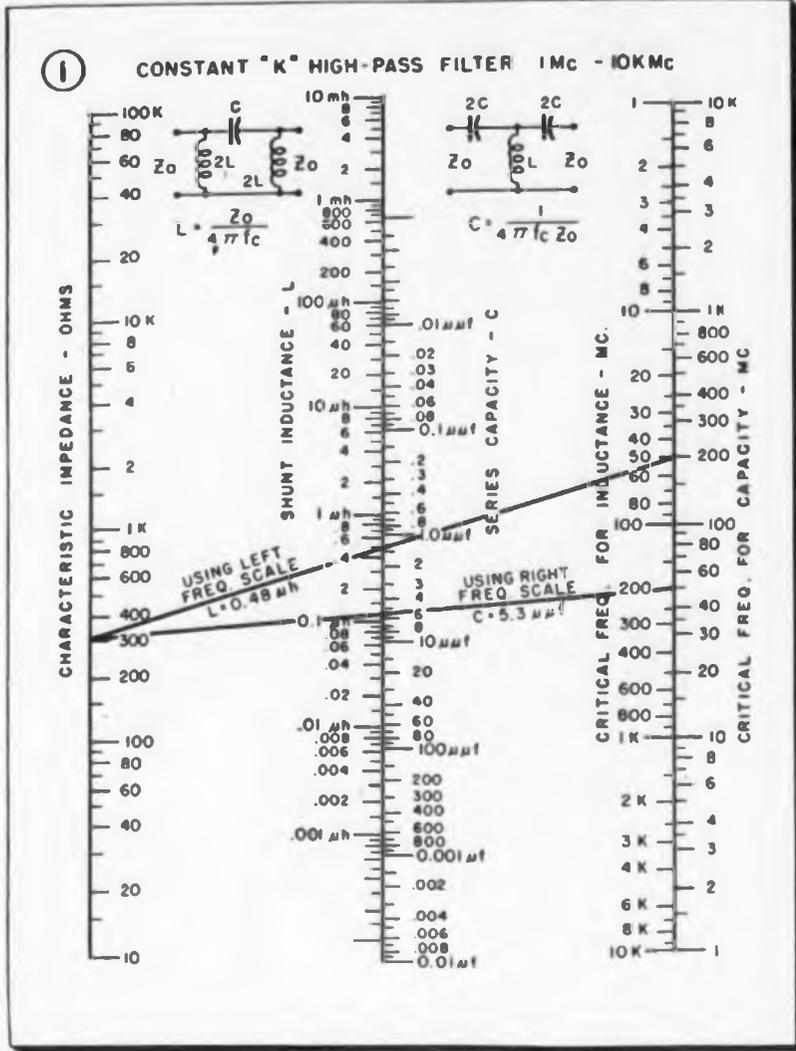
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High-Pass and Low-Pass Constant "K" Filter Nomographs



Nomographs

(Continued from page 05)

Another typical problem is to design a low-pass filter to cut off at 55 mc and match a 50-ohm input line. By employing the technique described above, the values $C = 110 \mu\text{f}$ and $L = 0.3 \mu\text{h}$ are obtained from Nomograph 2.

Extending Frequency Range

Since the reactive values are inversely proportional to the critical frequency, it is a simple matter to extend the frequency range by multiplying or dividing by a proportionality factor. An example of an audio problem will illustrate this. Suppose, in the first problem above, a high-pass filter cutting off below 50 cps (instead of 50 mc) were desired to match 300 ohms. The same lines would be drawn on Nomograph 1, but the capacitive and inductive values would be multiplied by the ratio of the frequencies (50×10^6)/50, or 1 million. Thus, the elements would be $C = 53 \mu\text{f}$, and $L = 0.48 \text{ h}$. The same rule applies to low-pass filters. Stated in other words, the reactive values increase in inverse proportion to the frequency. Conversely, as the frequency goes up in multiples of that shown on the nomographs, the L and C values are made smaller in the same ratio.

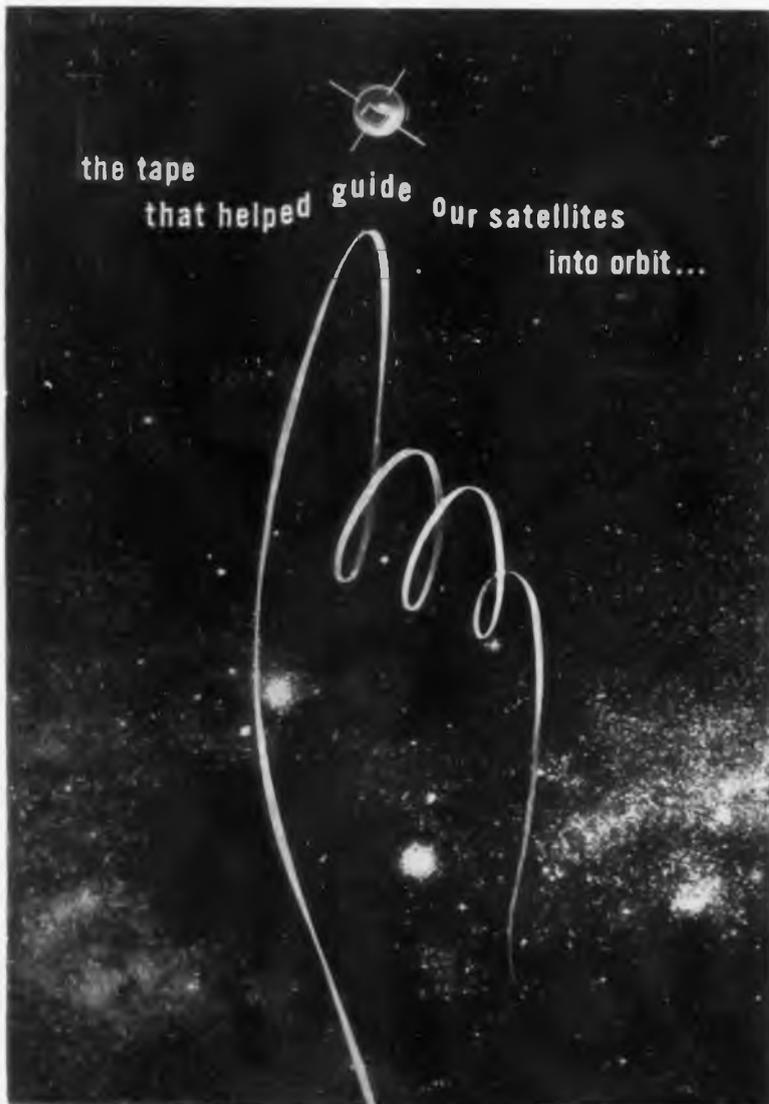
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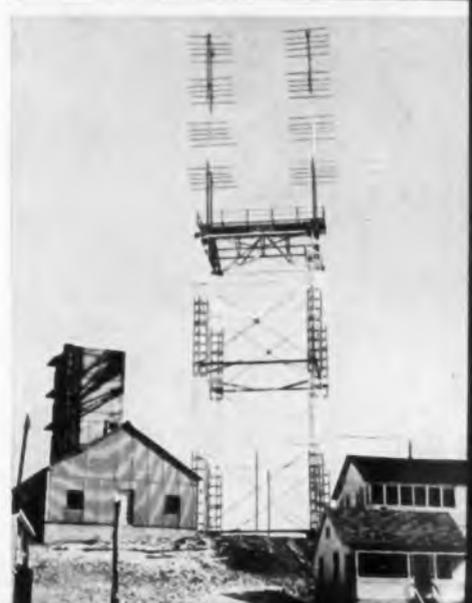
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Console Addition	J. L. Klungie 4/57
Patch Cord Holder	J. C. Andrews 2/57
Power Switching Panel	Elmo Darrah 9/56
Filling Blank Rack Space	J. W. Poole 5/56
Eliminating Dangling AC Cords	T. Kalin 5/56

Rack Light	D. Gorsuch 9/55
Finishing Chassis and Rack Panels	H. C. Lovell 8/57
Rack Set-Up	S. Dudas 8/57
Tape Storage	G. Barnett 5/52
Simple Copy Rack	G. J. Cassens 1/52
Tape Storage	F. A. Jenke 11/51
Emergency Transmitter Console	R. H. Eckels 8/51
A Patchboard Rack	H. G. Eldson, Jr. 2/51
Soundmirror Modifications	G. J. Hoos 11/50
Soundmirror Modifications	C. H. Busch 8/50
Automatic Pickup Switching	F. Whitney 6/55
Turntable Brush for Cleaning Stylus	G. A. Dodge 5/54
Disc Equalizer	V. Yelch 12/53

RECORDING, DISC	
Sapphire Protection	M. Karant 8/53
Two Heads (Pickup) Better Than One	W. M. Green 2/53
Low-Cost Vertical Transcription Head	J. Metzger 2/53
Non-Slip Method for Playing 45 RPM Discs	W. E. Dixon 12/52
Aluminum from Platters	R. E. Baird 12/52
Program Delay System	K. Maxwell 11/52
Rejuvenating Old Discs by Applying Lubricant	H. Brooks 10/52
Cure for Slipping Discs	M. L. Snedeker 7/52
Transcribing Without Spars Turntables	K. J. Dolan 3/52
Emergency Pick-up Head for Broadcast Stations	A. Vaccaro 2/52
Stabilizer for Disc Recording Head	J. M. Tiffany 1/52
Chip Chaser	C. V. Mullen 4/50

RECORDING, TAPE	
Repairing Erase Heads	E. R. Ward 11/54
Tape "Stickage"	T. R. England 11/54
Multiple Tape Recorder Input	D. M. Wheatley 10/54
Tape Recorder Modification	W. E. Bradford 10/54
Tape Mechanism Circuit	D. V. R. Drenner 8/54
Fast Dubbing	R. A. Von Behren 7/54
Plastic Reel Design	R. W. Hoffman 12/53
Simple Tape Recording	R. W. Hoffman 6/54
Improved 2500' Tape Reel	T. A. Hildebrand 6/54
Service Aid for Tape Recorder Take-up Clutch	H. I. Peters 4/54
Program Selection for Tape Recorder	C. P. Clark 2/54
Eliminating Coupling of Erase Heads	J. M. Weldon 2/54
Hulk Eraser	R. J. Harris 1/54
Adding Monitor to Tape Recorder	K. A. Thompson 1/54
Tape Duplicator	J. T. Grace 11/53
Reducing Tape Recorder "Down Time"	D. V. R. Drenner 11/53
Flexible Installation for Tape Recorder	L. L. Prado, Jr. 11/53
Rewind Slippage Cure	H. Schauf 9/53
Economical and Accurate Tape Editing Device	G. Pyle 7/53
Clean Tapes for Recording	C. H. Parish 6/53
Magnecoorder Speed Modification	G. Handlick 5/53
Tape Conversion	T. J. McDermott 4/53
Reel Identification	E. P. Schoeny 3/53
Continuous Tape Recording	J. Toher 1/53
Remotely-Controlled Tape Recorder	E. Boyle 1/53
Long Period Recording	E. S. Clark 12/52
Identifying Reels of Recording Tape	R. M. Harvey 11/52
Improved Response from Paper Tape	L. H. Crumbach 11/52
Cleaning Tape Recorder Mechanism	H. H. Newby 10/52
Recorder Distortion	H. L. Peters 6/52
Tape Identification	W. J. Kiewel 2/52
One Recorder Dubbing	E. Hodges 2/52
Recorder Speed Instability	F. F. Cherry 10/56
Automatic Tape Starter	G. E. Madison 7/56
Converting Tape Machines to Half Track Playback	G. Southworth 6/56
Remotely Controlling the Tape Recorder	E. R. Ward 2/56
Amplex Start Button Replacement	G. G. Williams 1/56
Magnetic Tape Threader	J. F. Lang 8/55
Concertone Recorder Modification	H. Schauf 7/55
Playback System	J. Thornton 8/57
Eliminating Recorder Flutter	E. Howell 11/57
Erase Protection	R. S. Houston 12/57
Checking Tape Speed	H. R. Kaiser 7/52
Tape Recorder Modifications for Editing to Disc	V. Salmon 5/52
Presetting a Tape	K. J. Dolan 4/52
A-B Listening Jack and Switch	D. V. R. Drenner 2/52
Console Stop-Start Control for Tape Recorder	E. Roberts 1/52
Tape Recorder Modification	E. Glycaddis 12/51
"Low-Level Input" for the High Level Input Magnecoorder	F. F. Bodine 11/51
Correcting Erratic Tape Transport	D. V. R. Drenner 10/51
Tension Adjustments on Tape Recorder Clutch	C. Tankersley 10/51
Duplex Operation with Presto Tape Machines	W. H. Meiners 9/51
Sighting Strobe Discs	D. Jordan 8/51
Poolproof Disc Recorder Monitoring	R. S. Houston 8/51
Portable Storage Cabinet for Magnecoorder	K. Winston Bugg 8/51
Automatic Recording Timer	J. G. Muench 7/51
Stylus Static Grounded	H. R. Kaiser 7/51
Continuous Delay with Two Tape Recorders	D. S. Foley 7/51
Tape Recorder Improves Audio on Telephone Interviews	N. Cummings 4/51
Magnecoorder Modifications	E. W. Williams, Jr. 4/51
Speed Check for Tape Recorders	R. K. Cobb 3/51
Remote Start Switch for Brush Recorder	R. R. Hiker 9/50
Low Impedance Input for Brush Recorder	W. F. Askew 5/50

(Continued on page 624)

ASSURING THE MOST FOR YOUR EQUIPMENT DOLLAR



TYPE BA-26A

TRANSISTORIZED

TURNTABLE EQUALIZING PREAMPLIFIER

The BA-26A is designed to mount in same position and space previously occupied by RCA Type MI-11877 passive equalizer.

Designed to provide both amplification and equalization of turntable output!

This compact equipment makes a modern replacement for bulkier combinations of separate amplifier and equalizing filters. Designed to provide both amplification and equalization of output of studio transcription turntables employing either the RCA Type MI-11874-4 or RCA Type MI-11874-5 Pickup Heads. The entire unit is completely self-contained including a-c power supply. Built-in equalization conforms to new industry standards of both NAB

and RIAA. A three position switch compensates for variations in transcriptions and records. Etched wiring circuits provide stable, trouble-free operation. Transistors are employed throughout to assure freedom from microphonics. Absence of inductances make the BA-26A insensitive to stray hum field pickup, greatly simplifying installation. Mounts easily in turntable, provides essentially noise-free operation and long equipment life.

For full particulars about the new BA-26A Transistorized Turntable Equalizing Preamplifier, see your RCA Broadcast Representative. In Canada: RCA Victor Company, Limited, Montreal.



RADIO CORPORATION of AMERICA

BROADCAST AND TELEVISION EQUIPMENT

CAMDEN, N. J.



Pipe line and gas production supervisor uses two-way radio to talk with headquarters.

Mobile Glossary

Adjacent Channel—(Mobile vhf)
The channel immediately above or below the reference channel.

Alternate Channel—(Mobile vhf)
The channel two channels above or below the reference channel.

Ambient—Encompassing on all sides. Commonly used to describe following: Ambient temperature means average or mean surrounding temperature; ambient noise level means average or mean surrounding noise level.

Antenna Array—An arrangement of two or more antennas (or reflectors) coupled together so as to improve transmission or reception.

Antenna (Bi-Directional)—An antenna which radiates most of its power in two directions.

Antenna Gain—The gain of an antenna referred to an isotropic radiator can be measured by measuring the intensity of the radiated field on the principal axis and at a known distance from the antenna. Knowing the power delivered to the antenna, the field intensity that would have existed with an isotropic radiator is easily calculated.

Antenna (isotropic)—An isotropic is one with a spherical symmetric radiation pattern. Although such an antenna cannot be constructed it is a concept of great convenience due to its mathematical simplicity.

Antenna (Uni-Directional)—An antenna which radiates most of its power in one direction.

Antenna (Omni-Directional)—An antenna which radiates equal power in all directions in a horizontal plane.

Atmospherics—Unwanted, extraneous, disturbing currents, induced in wire-line circuits, which result from dust, lightning, and snow storms, are sometimes referred to as atmospherics. The term is, however, more properly used to indicate natural disturbances encountered in radio transmission. (See Static.)

Automatic Frequency Control—(Abbr: afc) A circuit that holds a radio receiver on the frequency of the station to which it is tuned. Also sometimes applied to the circuit which controls a transmitter frequency.

Automatic Gain Control—(Abbr: agc) A self-acting compensating device which maintains the output of a transmission system constant within narrow limits in the face of wide variations in the attenuation of the system.

Azimuth—Direction in the horizontal plane. Normally used in designating direction of a radio beam.

(Continued on page 014)



- Self contained power supply
- Requires only 5 1/2" rack space
- Instantaneous control and constant video output
- Eliminates manual video level adjustment
- Automatically adjusts vidicon tube and video amplifier for optimum performance

- Constant output level with wide range of slide or film densities
- Can be used with any vidicon equipment using remote video gain control
- Eliminates need for special control of slide development.
- Old, new or color film can be used without constant adjustment

Write or call
BROADCAST EQUIPMENT DIVISION

SARKES TARZIAN, INC.
Electronic Products and Services
Bloomington, Indiana

NOW: a SUPER-THIN Audiotape
that's **SUPER-STRONG**



NEW Super-Thin Audiotape on TEMPERED MYLAR* gives you DOUBLE THE RECORDING TIME yet won't stretch or break on any machine!

FROM the laboratories of DuPont has come a great boon to serious tape recordists — Tempered "Mylar"! This improved base material is actually *twice as strong* as ordinary 1/2-mil "Mylar," giving you a double-length tape that can be used on any machine without danger of stretching or breaking under starting, stopping or rewind stresses. "Tempering" does away with the extra-careful handling required by ordinary double-length tapes.

With Super-Thin Audiotape on Tempered "Mylar," you get 2400 feet on a 7-inch reel — a *full hour* of uninterrupted recording time on each track, at 7 1/2" per second, or *two hours* per track at 3 3/4" per second. In effect, it gives professional 10 1/2" reel capacity to any portable or home-type recorder that will take a 7" reel!

The doubled length and strength are achieved with no sacrifice in magnetic characteristics. This tape has the same superior performance and consistent uniform quality that have made Audiotape the first choice of professional recordists the world over. It is available *now* — in the following reel sizes: 5" (1200 ft.), 7" (2400 ft.) and 10 1/2" (4800 ft.). Stock up on this, or any of the other seven types of Audiotape, on the next trip to your Audiotape dealer.

*"Mylar" is a DuPont Trade Mark

audiotape
TRADE MARK
it speaks for itself

AUDIO DEVICES, INC., 444 Madison Ave., N. Y. 22, N. Y.
In Hollywood: 840 N. Fairfax Ave. • In Chicago: 5428 Milwaukee Ave.
Export Dept.: 13 East 40th St., N. Y., 16 • Cables "ARLAB"
Rectifier Division: 620 E. Dyer Rd., Santa Ana, Calif.



INSTRUMENTS FOR INDUSTRY, Inc.

155 GLEN COVE ROAD, MINEOLA, N. Y. • PHONE: PLaneer 2 5300



MODEL 395A

Includes two Mod. 600 and power supply

SPECIFICATIONS FOR MODEL 600, AND FOR EACH AMPLIFIER SECTION OF MODEL 395A

Bandpass 200 cps to 50 mcs
Gain 40 db \pm 1 1/2 db (into matched load)
Input & Output Zo 90 ohms
Pulse Rise Time 10 microsecs
Gain Control Range 20 db

PRICE
395A—\$495; 600—\$225



MODEL 600

WIDE BAND AMPLIFIERS

SPECIFICATIONS



500 SERIES



400 MODEL

	M-500A*	M-510	M-530	M-400
Band Pass	200KC to 220MC	200KC to 220MC	10KC to 300MC	200KC to 300MC
Input Impedance	90 ohms	90 ohms	135 ohms	50 ohms
Output Impedance	185 ohms	185 ohms	150 ohms	90 ohms
Gain	12 DB	16 DB (90 ohm load)	16 DB	10 DB
Rise Time				
Average Power	2.5 mW SPC	2.5 mW SPCS	2 mW SPCS	1.6 mW SPCS
Peak Pulse Power	3 Watts CW 300 Watts (Negative pulse into 185 ohm load)	0.75 W	0.08 W	100 W CW
RMS Voltage out - across rated load impedance	22 Volts	12 volts	3.2 Volts	95 Volts
Peak to Peak Voltage - across rated load impedance	62 Volts	33 volts	7 Volts	270 Volts
Price including Power Supply	\$390	\$325	\$245	\$4900

*All prices F.O.B. Mineola, N.Y. unless otherwise specified. Prices subject to change without notice.

*A modified version of the M-500A which operates only in the linear mode, is the M-500 which is available at a price of \$330. All prices F.O.B., Mineola, New York.

I-F AMPLIFIERS

M-200 SERIES



SPECIFICATIONS OF STANDARD UNITS

	M-260	M-230	M-235
Band center	50 mc	30 mc	30 mc
Band width	10 mc	2 mc	10 mc
Voltage gain	90 db	110 db	90 db
Input V.S.W.R.	50 ohms	50 ohms	50 ohms
less than	1.3:1	1.3:1	1.3:1

Note: M-290 model available with 1.5 db noise figure. The low noise does not maintain the low input V.S.W.R. but is designed for a 50 ohm source. Price \$180 each



PRE-AMPLIFIERS

P-205 SERIES



SPECIFICATIONS P-205, P-205A

Band center	30 mcs
Band width	10 mcs (3 db point)
Gain	20 db minimum
Noise figure	2 db
Input impedance	P-205 . . . 200-300 ohm balanced P-205A . . . 200 ohm unbalanced
Output impedance	50 ohms
Price	\$150 each

REPRESENTATIVES

METRO, N. Y.—Hunter & Salisbury, Inc., Box #403, Hicksville, L.I., N.Y., WElls 8-1080
NORTH NEW YORK & NEW ENGLAND—Richard F. MacDowell Co., 58 Orient Ave., Melrose, Mass., NOrmandy 5-8893
D.C., MD., DEL., VA., N.C., TENN.—T. Taylor, 2100 St. Paul St., Baltimore, Md., BElmont 5-9126
FLORIDA—T. Taylor, 711 Magnolia Ave., Orlando, Fla., CHerry 1-2941
MICHIGAN—Ben Z. Rubin, 16222 Cheyenne Ave., Detroit, Mich., UNiversity 4-4958
OHIO & INDIANA—Jack Carney & Associates, P.O. Box 64, Dayton View Station, Dayton, Ohio, CRestview 5-8142
MIDWEST—Edwin Murty, 3505 Ridgedale Ave., St. Louis, Mo., EVERgreen 5-7728
NORTHWEST—Rush Drake Associates, 1806 Bush Pl., Seattle 44, Wash., EAst 1737
CALIFORNIA, NEVADA, ARIZONA & NEW MEXICO—G. E. Maxon Sales, 7553 Melrose Ave., Los Angeles 46, Calif., WEbster 8-2565; 15 - 41st Ave., San Mateo, Calif., FIREside 5-2866
COLORADO, WYOMING & UTAH—Vines & Co., P.O. Box 1025, Denver 1, Colo., KEystone 4-8067
TEXAS, OKLA., ARK. & LOUISIANA—J. Earl Smith, P.O. Box 35331, Dallas 35, Texas, FL 7-1727
CANADA—Electrodesign, 737 Notre Dame St. W., Montreal, Quebec, UNiversity 6-7367
109 Eglinton Ave. East, Toronto, Ont.
EXPORT—Electronics Manufacturers Export Co., 127 Grace St., Plainview, L.I., N.Y., WElls 1-3701

Mobile Glossary

(Continued from page 012)

Babble—Unwanted disturbing sounds in a carrier or other multiple channel system which result from the aggregate cross-talk or mutual interference from other channels.

Band—Used as applying to a group of radio channels assigned (usually by FCC) to a particular type of radio service. A range of frequencies (per second) within two definite limits. Very low frequency (vlf)

10-30 kilocycles

Low frequency (lf)

30-300 kilocycles

Medium frequency (mf)

300-3,000 kilocycles

High frequency (hf)

3-30 megacycles

Very high frequency (vhf)

30-300 megacycles

Ultra high frequency (uhf)

300-3,000 megacycles

Super high frequency (shf)

3,000-30,000 megacycles

Band Spread—A refinement in the tuning system which makes it possible to separate stations on a crowded portion of the tuning dial. Used mostly in shortwave receivers.

Base Station—The station in a land mobile system which remains in a fixed location and communicates with mobile stations.

Buffer—A circuit or component which isolates one electric circuit from another. Usually refers to electron tube amplifiers used for this purpose.

CCIF—International Telephone Consultative Committee. An international committee covering ordinary telephone, carrier telephone, music transmission, picture transmission, television transmission and multi-channel telegraph transmission over wire lines. This committee has the responsibility of studying technical operating and tariff questions pertaining to the above type of transmission over wire lines and issuing recommendations. Reports to the International Telecommunications Union.

CCIR—International Radio Consultative Committee. This international committee operates in a manner similar to the CCIF

Committee but on subjects pertaining to radio, broadcast, television and multi-channel radio transmission. Reports to the International Tele-communications Union.

CCIT — International Telegraph Consultative Committee. An international committee which operates in the same manner as the CCIF Group but on matters pertaining to telegraph and facsimile. Reports to the International Telecommunications Union.

Channel (RF)—That portion of the frequency spectrum assigned to a transmitter. The frequency assignment is usually designated by the center frequency of the channel. These are usually assigned by the FCC for the various radio services.

Channel, Signaling—A tone channel used for signaling purposes.

Channel, Tone—An intelligence or signaling circuit utilizing a frequency (on-off or frequency shift) as a means of transmission (usually audio frequency).

Compensated Volume Control—A device in a radio receiver that changes the tonal balance of the loudspeaker output for different output levels, to compensate for corresponding variations in the response characteristics of the human ear.

Crosstalk—Undesired power injected into a communication circuit from other communication circuits. May be intelligible or unintelligible.

Dead Spot—A region where signals from a radio transmitter are received poorly or not at all.

Diffraction—The effect produced when waves (light, sound or radio) encounter a barrier and bend around it.

Diplexer—A coupling unit in radio which allows more than one transmitter to operate together on the same antenna. Not to be confused with the duplexer.

Duplexer—A device which permits the use of the same antenna for both transmitting and receiving. Not to be confused with the diplexer.

End Effect—The capacitance effect at the ends of a half-wave antenna. To compensate for this effect, a dipole is cut a few per cent less than the exact length of the half-wave.

(Continued on page 017)



NEW PENTA MEDIUM POWER BEAM PENTODE

—higher output at low plate voltages, improved cooling

New Penta Laboratories brings to the 500- to 1000-watt output range the advantages of the exclusive vane-type suppressor grid introduced in 1956 with the 1000-watt PL-172. This new 400-watt PL-175 provides 25 to 30% higher output in Class AB₁ linear amplifiers than tetrodes with similar ratings — with minimum distortion. A versatile tube, the PL-175 also has outstanding advantages as a Class C r-f power amplifier or high power audio amplifier for modulator service.

RATINGS

Heater voltage .....	.5.0 volts	Plate current, max. ....	.350 ma.
Heater current	14.5 amps	Plate dissipation, max.	400 watts
Plate voltage, max.	4000 volts	Grid-Screen Mu	5

A COMPLETE LINE OF HIGH-EFFICIENCY TUBES—write for technical data on the PL-175 or see your local distributor

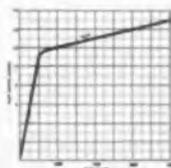


Plate current curve at zero grid voltage shows why the PL-175 gives high power gain and operates efficiently at low plate voltages.

ASK FOR A FREE COPY of "Transmitting Tubes for Linear Amplifier Service." This nine-page bulletin discusses linear amplifier tube requirements in detail. Graphs, characteristic curves, oscillograph linearity patterns and data show why Penta's exclusive beam pentode designs outperform four-element tubes.



PENTA laboratories, inc.

316 N. Nopal St. Santa Barbara, Calif

Equipment for Broadcasters

TOWER LIGHTING

A new line of microwave antenna tower obstruction lighting control and alarm units has been announced. Designed to meet FCC and CAA requirements for unattended radio re-



lay installations, the units also incorporate all control, test and lamp failure alarm features specified by the A T & T Long Line Department. Housed in a single, compact cabinet for indoor mounting the control units are available in several types to accommodate towers requiring one, two or three light levels. Hughey & Phillips, Inc., 3200 No. San Fernando Blvd., Burbank, Calif.

Circle 361 on Inquiry Card

TV CAMERA

The completely self-contained TC-100 TV camera, least expensive of two cameras in a product line of industrial television equipment, requires no external power supply or



control unit. With optional 3 lens turret, the camera produces bright, clear pictures with light levels as low as ten or 15 foot candles, and usable pictures with even less light. The basic camera measures 5 x 7½ x 12 inches and weighs 12 lbs. Complete closed-circuit television systems, incorporating the TC-100, are available. DuMont Laboratories, Inc., 750 Bloomfield Ave., Clifton, N. J.

Circle 363 on Inquiry Card

TONE-ARM

The Studio Dynetic cartridge employs a magnet moving within a stationary coil. Its counter-weighting applies a tracking force of 1 gm. The straight, tapered tone-arm is 15 in.



lg. 11 in. from pivot to stylus. Both horizontal and vertical suspensions have jeweled bearings. Pushing a control button set in the tone-arm, allows the needle to be moved. It may be used with any conventional turntable. Damping is achieved by floating the arm counter-weight on a leaf-spring embedded in a viscous elastomer. Shure Brothers, Inc., 222 Hartrey Ave., Evanston, Ill.

Circle 365 on Inquiry Card

ORTHICON LIFE EXTENDER

The image orthicon life extender will increase life of TV camera image orthicon tubes by preventing burn-in and stickiness of images. It mounts easily on exterior of 7 out of 8 TV cameras. It prevents a burn-in and stickiness by rotating a magnetic field around the I/O tube between photo-cathode and target. Thus, while camera is focused on motionless ob-



jects, the image is fixed on photo-cathode, but is rotating on target. The device rotates the field at optimum speed to counteract burn-in. General Electric Co., Syracuse, N. Y.

Circle 362 on Inquiry Card

MICRO TV RELAY

The new 1 w. system, the KTR-1000G, is offered in both the suitcase-type portable and fixed rack-mounted packages. Typical system electrical performance includes a video frequency response of ± 1 db to 6 MC. and color subcarrier differential phase and gain of .25 db and $\pm .5^\circ$. The 34 MC IF strip is flat to within .2 db. IF strip includes a 75 Ω phase equal-



izer. Portable version is housed in 4 rugged, lightweight cases. Broadband waveguide plumbing allows operation from 5925 to 7425 MC. Raytheon Mfg. Co., Waltham, Mass.

Circle 364 on Inquiry Card

SPECTRUM ANALYZERS

Four advanced engineering features have been added to the Panalyzers, Model SB-8b. It features continuously variable sweepwidth from maximum to 0, continuously variable resolution and scanning rate. It can be used to analyze AM and FM transmitters, spot spurious oscillations and modulation, investigate pulsed RF signals, test industrial RF equipment,



diathermy and electro-surgical instruments, monitor communications bands, as well as other band studies. Panoramic Radio Products, Inc., 10 S. 2nd St., Mount Vernon, N. Y.

Circle 366 on Inquiry Card

Mobile Glossary

(Continued from page 015)

Fading—Variation in the intensity of a received radio signal, usually caused by interference of received waves passing over different transmission paths.

Fading Margin—The number of decibels of attenuation which may be added to a specified Radio frequency propagation path before the signal-to-noise ratio of a specified channel falls below a specified minimum.

FCC—The Federal Communications Commission, created by the Communications Act of 1934, has regulatory responsibility over interstate and foreign communications by means of electrical energy, including radio and wire services. The FCC is administered by seven Commissioners one of whom is appointed Chairman. There are five primary bureaus—Engineering, Law, Accounting, Administration, and Secretary. Its authorization extends over Alaska, Hawaii, Puerto Rico, and other U. S. possessions, but not the Canal Zone.

Flutter—A variation in transmission level, unwanted, resulting from the effect of telegraph or signaling currents in charging the reactance of loading coils or transformers; frequency accompanied also by simultaneous variations in wave-form distortion.

FM-PM—This system is one in which the several frequency modulated subcarriers is used to phase-modulate a second carrier.

Free Space—Usually refers to a condition where the radiation pattern of an antenna is not affected by surrounding objects such as earth, buildings, trees, etc.

Handie-Talkie—A two-way radio communication unit small enough to be carried in the hand.

Heaviside Layer—A layer of highly ionized air in the outer atmosphere which reflects certain high frequency radio waves. It reaches its maximum density about 70 miles above the earth's surface. Named for Sir Oliver Heaviside who predicted its existence. Also called Kennelly-Heaviside layer.

(Continued on page 019)

From the AMCI Catalogues

AUTOMATIC IMPEDANCE PLOTTERS

HYBRIDS

LINE STRETCHERS

RF TRANSFORMERS

HYBRIDGES

SLOTTED LINES

CALIBRATED RF ATTENUATORS

PRECISION TAPERED REDUCERS

COAXIAL SWITCHES

DIPLEXERS

VOR ANTENNAS

ANTENNAS

TV BROADCAST ANTENNAS FOR VHF AND UHF

AMCI ANTENNA SYSTEMS—COMPONENTS—AIR NAVIGATION AIDS—INSTRUMENTS

ALFORD Manufacturing Co., Inc.
299 ATLANTIC AVE. BOSTON, MASS.

Products for Communications

RADIOTELEPHONE

A new portable radiotelephone for geophysical applications has been introduced. The TR-247 may be used on any single frequency between 2,000 and 8,000 kc. Power output of the



transmitter is from 25 to 30 w. The unit may be operated directly from a 6 or 12 v. battery. Current drain is kept low by employing quick heating tubes. The entire unit, including carrying case, weighs 52 lbs. less battery. A stripped chassis is provided on which users may add special equipment for time break circuits. Kaar Engineering Corp., P. O. Box 1320, Palo Alto, Calif.

Circle 343 on Inquiry Card

SELECTIVE CALLING

A unit, smaller than a cigar box, converts any standard two-way radio network to a fully automatic selective calling system. Called Tonicam, the unit eliminates co-channel annoyance



without the necessity of transmitting continuous h-f tones. The base station operator can talk with more than one mobile unit by simply calling the desired units. Those who lift their mikes from the hangup position on the mobile unit are participants in a conference call. Unless mike is picked-up, receiver is dead. A. B. Du Mont Lab., Inc., 750 Bloomfield Ave., Clifton, N. J.

Circle 345 on Inquiry Card

COMMUNICATION ANTENNA

A new yagi type antenna for 450 mc, Model CA-450, has been designed for working in extreme weather conditions. Parasitic elements are 7/16 in. solid aluminum rods and driven



element is made of 3/4-in. tube. All elements are mounted by a heavy aluminum casting. The "T" match on the dipole is fed by a Teflon insulated balun inside the antenna boom. All internal wiring is potted under pressure. Antenna is shipped with N-type connector and 2 U-bolt clamps. Other type clamps and connectors are available. Scala Radio Co., 2814 19th St., San Francisco 10, Calif.

Circle 347 on Inquiry Card

MOBILE RADIO

New 60 or 30 w. transistor-powered mobile radios in low band (25-54 mc), 25 or 50 w. in high band (144-174 mc) and 15 w. in Citizens' Band (450-470 mc) are available. Transistorized power supplies in the new units are associated with both the transmitter and receiver. Mounted externally on the front of the mobile combination is a grille-like "heat sink" for fast heat



dissipation. They may be used with either positive or negative ground 12 vdc systems. General Electric, Communication Products Department, Electronics Park, Syracuse, New York.

Circle 344 on Inquiry Card

MOBILE RADIOS

Called the "T-Power" radiophones, the new two-way radio units incorporate a transistorized switching circuit in the power supply in place of the conventional vibrator. They offer new installation versatility. Rated at 20 and 25 watt output and available for operation in the 25-50 mc and 144-174 mc bands, they operate from 12 volt negative ground sources. Mod-



els can be supplied with either conventional squelch or as "Private-Line" radiophones. Motorola Communications and Electronics, Dept. TIC, 4501 Augusta Blvd., Chicago 51, Ill.

Circle 346 on Inquiry Card

SIDE MOUNT ANTENNA

New 25-50 MC gain antenna for two-way radio communications that is a space saver permits maximum utilization of tower area. The basic unit is a center-fed, half-wave folded dipole. Two of these units, spaced one wavelength apart, comprise the Type 262 antenna. The rigid 3-point mounting arrangement reduces the fluctuation of antenna impedance to a mini-



mum under varying windloadings. It has an average gain of 2.5 db over a dipole, and a coverage pattern that is omnidirectional. Andrew Corp., 363 E. 75th St., Chicago 19, Ill.

Circle 348 on Inquiry Card

Mobile Glossary

(Continued from page 017)

Horizontal Polarization — Radio transmission in which the electrostatic field is in a horizontal plane. Elements of the transmitting and receiving antennas are horizontally placed. See Polarization.

Indirect Wave—A high frequency radio wave reflected from one of the ionosphere layers in the outer atmosphere. Also called the skywave. See Heaviside Layer.

International Radio Consultative Committee (CCIR) — See "CCIR."

International Telegraph Consultative Committee (CCIT) — See "CCIT."

International Telephone Consultative Committee (CCIF) — See "CCIF."

Ionosphere—That portion of the atmosphere lying 25 miles or more above the earth. So called because of the ionized air formed there by action of the sun's rays. These layers are known collectively as the Heaviside Layer. See Heaviside Layer.

IRAC — The Inter-departmental Radio Advisory Committee is composed of representatives of eleven Government agencies: State, FCC, Commerce, Army, Navy, Air Force, Agriculture, Interior, Justice, Maritime Commission, and Treasury. It advises the President on frequency allocations and assignments for U. S. Government radio services.

JTAC—The Joint Technical Advisory Committee is formed jointly by the Radio Manufacturers Association and the Institute of Radio Engineers to obtain and evaluate information of a technical or engineering nature relating to the radio art for the purpose of advising Government and other professional and industrial groups.

Mobile Relay Station—A base station in which the base receiver automatically turns "on" the base station transmitter which retransmits all signals received by the base station receiver. Used to extend the range of mobile units and requires two frequencies for operation.

Mobile Station—A station in a land mobile system which is operated while it is in motion.

(Continued on page 020)

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Mobile Glossary

(Continued from page 019)

Mobile Systems—One Way—A system consisting of a base station and mobile receivers only. Not used much now.

Two Way—A system consisting of a base station transmitter and base receiver with mobile transmitters and receivers. May be operated using one or two frequencies.

Three Way—Same as two way except provisions for mobile to mobile operation. When used on a single frequency a two way system automatically becomes three way; when a two way system is operated on two frequencies an additional frequency must be included in the mobile transmitter to make it three way.

Multipath Effect—The condition which results when radio signals transmitted from one point are received at slightly different phase (or time) because they are traveling over paths of different lengths.

Multiplex—A system or process of simultaneously providing two or more communication circuits on a single channel.

NRCL—The National Radio Engineering Advisory Committee for Public Safety, Land Transportation, and Industrial Land—Mobile Services. The primary objective of the NRCL is the coordination of points of view relating to technical matters toward the end of effective utilization of channels assigned to the land-mobile services as on the part of the public safety services, the land transportation radio service and the industrial radio service.

PAM-FM—This system is one in which several pulse amplitude modulated subcarriers are used to frequency modulate a carrier.

Piezoelectric Effect—That property of certain natural and synthetic crystals by which they are mechanically deformed under the influence of an electric field. Advantage of this effect is taken in the design of high-precision oscillators and in certain high-frequency filters.

Pilotchannel. Pilot Frequency—A pilot channel in a communication system is employed either to operate trouble alarms or

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Close up of a Rohn No. 30

Tower used for radio communications. Note guying arrangement, triangular tower design—natural "ladder" for antenna maintenance. This tower is easily erected—very moderate in cost.

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automatic level regulators, or both. The channel may use a signal frequency or a typical circuit in the system.

Pilot Regulator—A device for maintaining circuit transmission constant under varying attenuation conditions on the transmission media.

PTM-PPM-AM—This system is one in which the several pulse position or pulse time modulated subcarriers are used to amplitude modulate a carrier.

Pulse Amplitude Modulation or PAM—Modulation in which a wave is caused to control the amplitude of a pulse carrier.

Pulse-Time Modulation or PTM—Modulation in which a wave controls the time of occurrence of a pulse carrier.

Pulse Width Modulation or PWM—Modulation in which a wave is used to control the time duration of the individual pulse carriers.

PWM-FM—This system is one in which several pulse width modulated subcarriers are used to frequency modulate a carrier.

Quiet Automatic Volume Control—(Abbr: qave). A circuit in which the automatic volume control does not function until the signal reaches a certain strength. Consequently full amplification is not applied to background noises encountered when tuning between stations.

Radio Frequency—(Abbr: rf) A frequency higher in the spectrum than audible frequencies but lower than light or heat frequencies. See spectrum.

Radio Spectrum—The frequencies which may be used for the transmission and reception of radio energy. See spectrum.

Radio Wave—An electromagnetic wave produced by rapid reversals of current in a conductor. Such a wave travels through space at approximately the speed of light.

Receiver Lockout System—In Mobile Communications an arrangement of control circuits whereby only one receiver can feed the system at one time to avoid distortion.

Ripple—A periodic fluctuation on a d-c voltage which results from incomplete filtering in a power rectifier set, or from the bars of the commutator of a d-c generating machine. The magnitude

(Continued on page 22)

HOUSTON FEARLESS REMOTE CONTROL TV CAMERA HEADS

Houston Fearless Remote Control Heads provide a practical, dependable means for tilting and rotating industrial type TV cameras from a remote location. Both actions can be controlled simultaneously or independently as desired from portable control unit. Heads mount on any standard tripod or other suitable mount.



MODEL RCH-3 (above) Accommodates cameras up to 20 lbs. Tilts 45° up or down at 2° per sec. Rotates 370° at 3½° per second. If desired, can be mounted for vertical operation of cameras up to 12 lbs.



MODEL RTC (left)

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Mobile Glossary

(Continued from page 621)

of ripple is commonly expressed as the ratio of its effective value to the average value to the total d-c voltage in per cent.

RMS Amplitude (Root-Mean-Square)—That amplitude of an a-c wave which may be used for an accurate computation of power in watts. In communications particularly, with complex waves involved, the RMS ampli-

tude of a current is said to be that current which is computed from a measurement of power dissipated in a known resistance as a result of that current. Often called the effective value.

Safety Communications Equipment—Police, fire, and mobile two-way radio.

Scrambled Speech—Speech that has been rendered unintelligible, for secret transmission, usually by inverting the frequencies, thus changing the sound. It is converted back to intelligible speech at the re-

ceiving end. Also called inverted speech.

Semi-Duplex—A method of operation of a communication circuit where one end is duplex and one end simplex operation. Sometimes used in mobile systems with the base station duplex and the mobile station simplex. Requires two frequencies.

Service Band—A band of frequencies allocated by the Federal Communications Commission to a specific class of radio communication service.

Simplex—A method of operation of a communication circuit where each end can only receive or transmit, not both simultaneously. The usual "press to talk" operation. A radio circuit must always be simplex when only a single carrier frequency is used.

Single Sideband Modulation (SS) is modulation resulting from the partial or complete elimination of the carrier and all components of one sideband from an amplitude modulated wave.

Skin Effect—The concentration of current density on the surface of a conductor. It is caused by a counter-electromotive force self-induced by an alternating current passing through the conductor. Increases with frequency.

Skip Distance—The area within the range of a radio transmitting station in which that station's signals are heard poorly or not at all. Affected area determined by operating frequency of station and height of ionized layers in ionosphere. See Heaviside Layer.

Spectrum — (Pl. spectra) The range of electromagnetic radiations, from the longest known radio waves to the shortest known cosmic rays. Light, the visible portion of the spectrum, lies about midway between the two extremes.

Squelch Circuit—A radio circuit which reduces background noise in the absence of signals.

SS-FM—This system of multiplex is one in which the several single sideband subcarriers are used to frequency modulate a second carrier.

SS-PM—This system of multiplex is one in which the several single sideband subcarriers are used to phase modulate a second carrier.

Suppressor—A resistor inserted in

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series with the spark-plug lead or the distributor lead of an automobile engine. It suppresses spark radiations which might otherwise interfere with radio reception in the automobile.

TCC — The Telecommunications Coordinating Committee was informally organized at the instance of the State Department by agreement of the Government agencies concerned, viz., State, Army, Navy, Air Forces, FCC, CAA and others. It makes recommendations on telecommunications matters for action by the respective agencies, coordinates aviation and communications matters, and approves, from a policy standpoint, statements of the United States position for use in international telecommunications conferences.



During line repairs, radio makes it easy for crew to keep contact with power plant.

Transceiver—A radio transmitter and receiver combined in one unit and sometimes contains common components which are switched between the transmitter and receiver. Generally portable or mobile. See Walkie-Talkie.

Vertical Polarization — Radio transmission in which the electrostatic field varies in a vertical plane. Under this system, transmitting and receiving antennas are placed in a vertical plane.

Walkie-Talkie—A radio communication unit which provides two-way service. It can be carried by one person, usually strapped to his back.

From "Microwave and Mobile Communications Terms," a glossary, compiled by RCA.



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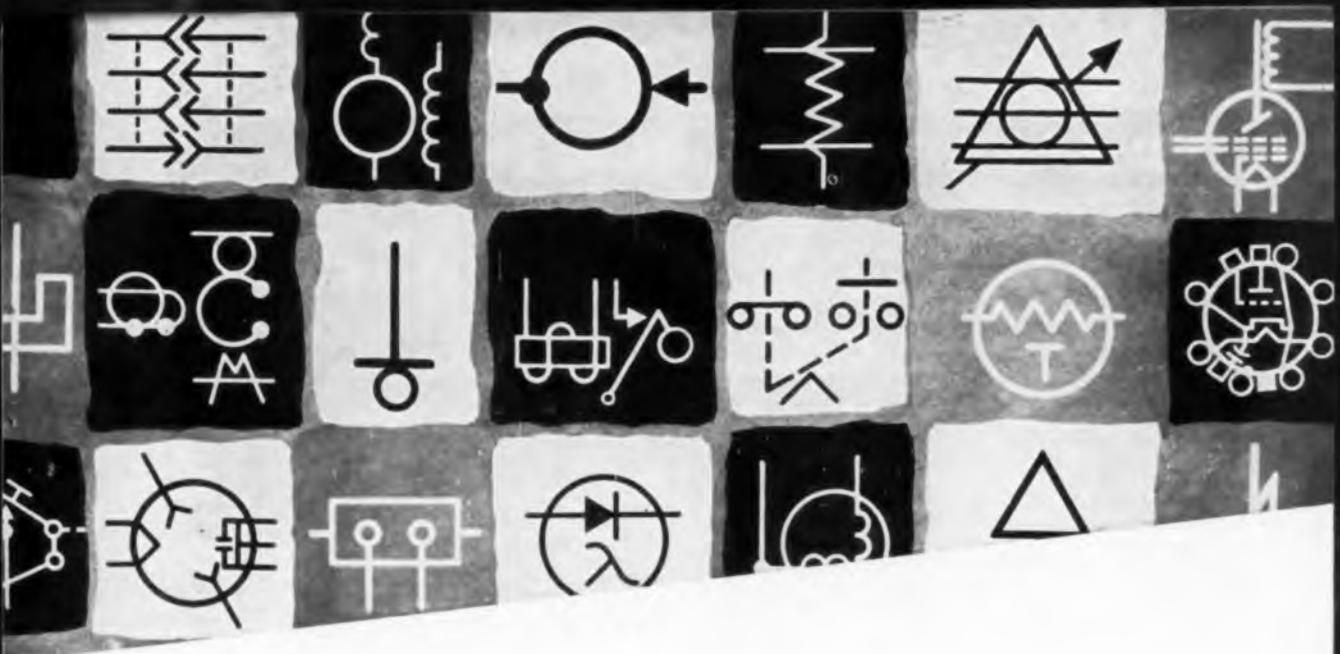
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(Sixteenth Edition)

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Video line
Video off-the-air
Waveform
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Converters, frequency
Lenses

METERS — AUDIO, ELECTRICAL MEASUREMENT, RF SPECIAL PURPOSE

MICROPHONES

Condenser
Crystal

Dynamic
Lapel
Magnetic

MICROPHONE ACCESSORIES

MOTORS AND GENERATORS

POWER SUPPLIES AND CONVERTERS

RECEIVERS, COMMUNICATION

Railroad
Remote Pickup fixed
TV
FM Multiplex

RECEIVERS, HOME

RECORDERS, AUDIO

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Disc
Magnetic tape
Portable
Sound
Studio
Synchronized film-tape
Telephone

RECORDING ACCESSORIES

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Turntables

RECTIFIERS

RELAYS

SEMI-CONDUCTORS — DIODES

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Magnetic tape
Tape, Prerecorded

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Bells & buzzers
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Consoles, studio
Equalizers
Home sound systems
Intercommunicators

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Cranes, Dollies,
Tripods, Mountings

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Image Dissector, ITV
Industrial TV
Orthon, ITV
TV Film
Vidicon, ITV

Distribution Systems:
Apartment and Hotel
Closed Circuit and ITV
Community Antenna

Monitors

Microwave Relay Equipment

Projectors:

TV Film

Receivers:

Studio transmitter links

TESTERS

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TRANSFORMERS

TRANSMITTERS

Broadcast AM
Microwave

TRANSMITTER ACCESSORIES

Control consoles
Diplexers

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TUNERS — AM, FM

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Product Finding Index

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want (under the name you ordinarily use to identify it). (2) Turn to the section number given in the Product Finding Index. (3) From the manufacturers listed in this section, select

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Relays, latching	78-14	Sealers, protective	80-6	Springs, grounding antenna	8-25	Tapes, pressure sensitive	14-23
		Seals, carbon	80-7	Springs, hardware	28-57	Tapes, test	85-10
		Seals, hermetic	80-8	Springs, knob	25-28	Telemetering, guided missiles	9-26
		Seals, insulating	80-9	Springs, microphone	53-5	Telemetering, military equip.	55-12
		Seals, metal to glass	80-10	Stamped parts, tube	98-34	Telemetering, military sys. eq.	56-7
		Seals, missile	57-9	Stampings, hardware	28-58	Telemetering, missiles	57-10
		Seals, oil	80-11	Stampings, metal stock	47-59		
		Seals, shaft	80-12	Stamps, marking	69-53		
		Seals, switch	80-13				

Product	Section & Code No.	Product	Section & Code No.	Product	Section & Code No.	Product	Section & Code No.
Telephones, systems	86 19	Transformers, isolation	94 13	Tubes, rectifying, transmitting	97 27	Wire harnesses	101 37
Telephones, portable field	58 8	Transformers, microphone	53 7	Tubes, scintillation	97 28	Wire, high voltage	101 38
Telephones, sound powered	52 20	Transformers, microwave	94 14	Tubes, scintillation, nuclear	65 30	Wire, hookup	101 39
Telephones, sound powered	86 20	Transformers, modulation	94 15	Tubes, sparkgap	97 29	Wire, litz	101 40
Tellurium	47 47	Transformers, plate	94 16	Tubes, special purpose	97 29	Wire, magnet	101 41
Terminal boards	20 40	Transformers, plug in	94 17	Tubes, subminiature	97 32	Wire, magnetic recording	85 11
Terminal lug swaggers	93 95	Transformers, power receiving	94 18	Tubes, switching	97 33	Wire, magnetic recording	101 42
Terminal strips	20 41	Transformers, power transmit	94 19	Tubes, thyratron	97 34	Wire marking	101 43
Terminals	14 34	Transformers, precision	94 20	Tubes, TV	97 35	Wire mesh	28 69
Terminals, thermally sealed	20 36	Transformers, precision TV	94 21	Tubes, transducer	97 36	Wire, metal plated	101 44
Terminals, safety	14 14	Transformers, deflection	94 22	Tubes, transmitting-receiving	97 37	Wire, metal shielded	101 45
Terminals, snap	20 37	Transformers, deflection, precision TV	94 23	Tubes, transmitting-receiving	97 37	Wire, molybdenum	101 46
Terminals, solderless	20 38	Transformers, voltage divider	94 22	Tubes, transmitting	97 38	Wire, nickel	101 48
Terminals, standoff	20 39	Transformers, pulse	94 23	Tubes, traveling wave	97 39	Wire, nickel-clad copper	98 40
Terminations, microwave	54 34	Transformers, R.F.I.F.	94 24	Tubes, TV camera iconoscopes	97 40	Wire, phosphor bronze	101 49
Test equipment, aviation	9 13	Transformers, toroidal	94 25	Tubes, TV camera image cathicons	97 41	Wire, plastic insulated	101 50
Test equipment, combustion	44 12	Transformers, transistor	94 26	Tubes, TV picture	97 42	Wire, platinum	101 51
Test equipment, microwave	46 26	Transformers, ultrasonic	94 27	Tubes, TV picture, rebuilt	97 43	Wire, reals	101 52
Test equipment, microwave	54 41	Transformer, velocity	94 32	Tubes, ultra-violet	97 44	Wire, resistance	101 53
Test equipment, studio	90 11	Transformer, vibrator	94 33	Tubes, voltage regulators	97 45	Wire, shielded	101 54
Test leads	101 19	Transformers, voltage regulat	94 39	Tubes, x-ray	97 46	Wire, silicon bronze	101 55
Test units, acceleration, military	55 13	Transistor analyzers	8 30	Tubing, aluminum	47 66	Wire, stainless steel	101 57
Test units, vibration military	55 14	Transistors, germanium	81 14	Tubing, asbestos	47 67	Wire, steel	101 58
Testers, battery	10 17	Transistors, junction	81 4	Tubing, brass	47 68	Wire, strippers, mechanical	93 40
Testers, battery	92 1	Transistors, photo	81 5	Tubing, ceramic	47 69	Wire, tantalum	101 59
Testers, cable	92 2	Transistors, point contact	81 6	Tubing, copper	47 70	Wire, teflon insulated	101 60
Testers, capacitor	92 3	Transistors, power	81 7	Tubing, glass fibre insulation	47 71	Wire, thermocouple	101 61
Testers, cathode ray tube	92 4	Transistors, selenium	81 8	Tubing, glass precision	47 72	Wire, titanium	101 62
Testers, circuit	92 5	Transistors, silicon	81 15	Tubing, metal alloy	47 73	Wire, tungsten	101 63
Testers, coil	92 6	Transistors, surface barrier	81 9	Tubing, metal base, flexible	47 74	Wire, zirconium	101 64
Testers, computer	19 9	Transistors, switching	81 10	Tubing, monel	47 75	Wirewound strips	79 48
Testers, computer	92 8	Transistors, tetraode	81 11	Tubing, nickel	47 76	Woolers	87 11
Testers, crystal	92 9	Transmission line, wire & cable	101 20	Tubing, paper	47 77	Wrenches	93 41
Testers, diode	92 10	Transmission lines, microwave	54 35	Tubing, phenolic	47 78	Wrenches, wrenchet	93 21
Testers, distortion	92 11	Transmitters, amateur	95 3	Tubing, plastic	47 79	X-ray cameras, medical	46 24
Testers, guided missile	92 12	Transmitters, aviation	95 4	Tubing, silver	47 80	X-ray equipment, medical	46 25
Testers, insulation	92 13	Transmitters, aviation	95 4	Tubing, steel	47 81	X-ray equipment, photographic	46 26
Testers, microwave	92 14	Transmitters, broadcast AM	95 5	Tubing, steel, stainless	47 82	X-ray inspection machines, industrial	22 77
Testers, motor	92 15	Transmitters, broadcast FM	95 6	Tubing, tungsten	47 83	Zinc	47 53
Testers, multimeter	92 16	Transmitters, broadcast UHF-TV	95 7	Tubing, varnished or lacquered	47 84	Zirconium	47 54
Testers, radar	92 17	Transmitters, broadcast VHF-TV	95 8	Tubing, wire woven or knitted	47 85		
Testers, relay	92 18	Transmitters, citizens radio	95 9	Tuners, AM	99 1		
Testers, synchro error	92 19	Transmitters, code	95 10	Tuners, AM-FM	99 2		
Testers, thickness, ultrasonic	92 20	Transmitters, color TV	95 11	Tuners, automatic	99 3		
Testers, transistor	92 21	Transmitters, color TV	95 11	Tuners, automatic	99 4		
Testers, tube automatic	92 22	Transmitters, cue	89 64	Tuners, klystron	99 5		
Testers, tube socket	92 23	Transmitters, direction finding	89 65	Tuners, microwave	99 6		
Testers, vibration	92 24	Transmitters, facsimile	89 66	Tuners, microwave	99 7		
Thermistors	79 45	Transmitters, fixed frequency	95 14	Tuners, permeability	99 7		
Thermocouples	44 43	Transmitters, fixed station communication	95 15	Tuners, television	99 8		
Thermopiles	44 44	Transmitters, loran	95 16	Tuners, UHF	99 9		
Thickness equip., electronic	31 19	Transmitters, marine	95 17	Tuning forks	47 51		
Thickness equip., ultrasonic	31 20	Transmitters, microwave	95 18	Tuning units, antenna	44 48		
Thorium	47 48	Transmitters, mobile	95 19	Turbine, recording acces	8 28		
Timers, counting	22 70	Transmitters, mobile	95 19	Turbines, sound equip.	84 38		
Timers, cyclic	22 71	Transmitters, pulse time modulation	95 20	Turrets, camera	89 11		
Timers, impulse	22 72	Transmitters, radar	70 14	Tweeters	87 10		
Timers, interval	22 73	Transmitters, radar	70 14	Tweeters	93 38		
Timers, photoelectric	22 74	Transmitters, radar	70 14	Ultrasonic equipment, medical	46 23		
Timers, sequence	22 75	Transmitters, radio range	95 22	Ultraviolet equipment	31 25		
Timers, thermal	22 76	Transmitters, railroad	95 23	Uranium	47 52		
Tin & alloys	47 49	Transmitters, satellite	95 24	Varistors	99 10		
Titanium	47 50	Transmitters, single sideband	95 25	Vacuum tubes	15 41		
TITING equipment	61 24	Transmitters, sonar	95 26	Vibrators	67 25		
Titration apparatus, electron	89 55	Transmitters, tele-metrica	95 26	Vibrators, ultrasonic	31 27		
Tocan	93 18	Transmitters, UHF	95 27	Vibrators, ultrasonic	67 26		
Tools, alignment	93 1	Transmitters, VHF	95 28	Vises	93 39		
Tools, compressed air product	69 9	Transponders, missile	57 11	Voltmeters, digital	49 33		
Tools, rivet	93 22	Transponders, navigation	44 15	Voltmeters, electrostatic	49 34		
Tools, splicing	93 33	Trans, cabinet	11 31	Voltmeters, slideback	49 35		
Towers and supports, commercial	6 25	Triodes	89 65	Walkie-talkies	58 15		
Towers and supports, home	7 13	Tube parts, fused quartz	96 70	Washers, brass	28 60		
Tracers, signal	44 45	Tube pin straighteners	93 36	Washers, ceramic	28 61		
Transceivers, aviation, military	55 15	Tube pullers	93 37	Washers, felt	28 62		
Transceivers, aviation, mobile	58 9	Tube seal leads	98 36	Washers, fibre	28 63		
Transceivers, lifeboat, military	55 16	Tubes, ATC	97 1	Washers, lock	28 64		
Transceivers, lifeboat, mobile	58 10	Tubes, backward wave	97 2	Washers, metal	28 65		
Transceivers, portable, military	55 17	Tubes, ballast	97 3	Washers, mica	28 66		
Transceivers, portable, mobile	58 11	Tubes, battery charger	97 4	Washers, plastic	28 67		
Transceivers, UHF, mobile	58 12	Tubes, cathode-ray	97 5	Washers, rubber	28 68		
Transceivers, VHF, military	55 18	Tubes, ceramic	97 6	Watches, stop	90 12		
Transceivers, VHF, mobile	58 13	Tubes, color	97 7	Watches, strob	54 37		
Transducers	100 1	Tubes, color TV picture	97 7	Waveguides, rigid	54 38		
Transducers, aviation	9 14	Tubes, computer, storage	19 49	Wave traps	72 23		
Transducers, industrial	31 21	Tubes, counting	97 8	Wax	15 42		
Transducers, measurement	44 46	Tubes, electron multiplier	97 9	Wedges, woodlot	63 39		
Transformers, antenna matching	94 1	Tubes, gamma ray	97 10	Welders	69 56		
Transformers, audio, very low frequency	94 2	Tubes, gamma ray, nuclear	97 10	Windings, transformer	94 31		
Transformers, autotransformer	94 3	Tubes, gas	97 11	Windows, glass	25 30		
Transformers, bias	94 5	Tubes, gas, counter	97 12	Windows, metallized	25 31		
Transformers, current	94 6	Tubes, geiger counter	65 29	Windows, waveguide	54 42		
Transformers, filament	94 7	Tubes, glow or discharge	97 13	Wire, aluminum	101 21		
Transformers, flyback	94 8	Tubes, ignition	97 14	Wire, asbestos insulated	101 22		
Transformers, 400 cycle	94 9	Tubes, infra-red	97 15	Wire, beryllium copper	101 23		
Transformers, HV	94 10	Tubes, klystron	97 16	Wire, cat whiskers	101 24		
Transformers, instrument	94 11	Tubes, magnetron	97 17	Wire, ceramic insulated	101 25		
Transformers, insulation	94 12	Tubes, miniature	97 18	Wire, copper, bare	101 27		
		Tubes, noise	97 19	Wire, copper, clad	101 28		
		Tubes, photo	97 20	Wire, copper, insulated	101 29		
		Tubes, pirani	97 21	Wire, cut & stripped	101 30		
		Tubes, power amplifier	97 22	Wire, enameled	101 31		
		Tubes, projection	97 23	Wire, filament	101 32		
		Tubes, receiving	97 24	Wire, forms	101 33		
		Tubes, rectifying, industrial	97 25	Wire, glass insulated	101 34		
		Tubes, rectifying, receiving	97 26	Wire, gold plated	101 35		
				Wire, guy	101 36		

1958 ELECTRONIC INDUSTRIES DIRECTORY

Product Listings

This is a listing of end products, component parts, equipment and instruments in the radio-TV-electronic industries, with the addition this year of such supplementary listings as accessories, cabinets, chemicals, hardware, raw materials and services related to the electronic field. Names and addresses of manufacturers are given for 2,616 product categories which are arranged into 101

major groups. Companies making these products or offering services in the field are arranged alphabetically into 101 major groups. Addresses are given with numbered references to group subdivisions. These numbers are printed to the right of each company to facilitate quick reference in selecting given categories.

I—AMPLIFIERS, AUDIO

Amplifiers, audio	1	American Research & Mfg Corp 920 Halpine Ave Rockville Md	11-22-24	Barwen Richard S 11 Scotland Rd Lexington 3 Mass	1-3-6-16-12-13- 14-15-19-20-21-22
Amplifiers, cuing	2	AMI Inc 1500 Union Ave Grand Rapids 2 Mich	1-3-6-9-19	Bass-Clement-Doughton & Associates 201 B Studio Hill Chester Springs Pa	1-4-5-6-8-9-12-13-15- 16-17-18-19-22-23
Amplifiers, decode	3	Amplifier Corp of America 398 Broadway New York 13 NY	1-8-17-20	B-W Mfgs Inc Phillips Radio Div 721 N Webster St Kokomo Ind	1
Amplifiers, distribution	4	Amplivox Ltd 2 Bentiner St London W 1 England	22	Callnet Electronics Co 4801 Exposition Blvd Los Angeles 16 Calif	1-4
Amplifiers, high-fidelity	5	Anderson Electronic Lab 128 E 1800 S St Bountiful Utah	1-2-5-6-7-9-12-13-17-19-21	Carroll Transcription Service 1120-A Conn Ave N W Washington 6 DC	1-2-4-5-10-12- 13-14-18-21-22
Amplifiers, industrial sound	6	Antennavision Inc 2919 W Osborn Phoenix Ariz	4-10-23-24	Centralab Div Adams-Union Inc 900 E Keefe Ave Milwaukee 1 Wisc	19-22
Amplifiers, isolation	7	Applied Research Inc 76 S Bayles Ave Fort Washington NY	23	Central Electronics Inc 1247 W Belmont Ave Chicago 11 Ill	1-6-22
Amplifiers, limiting	8	Ardente Acoustic Labs Ltd Minerva Rd London N W 10 England	1-11-22	Century Projector Corp 729 7 Ave New York 19 NY	1-5-19
Amplifiers, line	9	Arenberg Ultrasonic Laboratory 94 Green St Jamaica Plain 30 Mass	23	Chesapeake Instrument Corp Shadydale Md	16-22
Amplifiers, microphone	10	A R F Products Inc P O Box 57 Rantion NM	1-4-5-13	Cinema Engrg Div Acovox Corp 1100 Chestnut St Berbank Calif	1-6-8-10-16-17
Amplifiers, miniature plug-in	11	Atlantic Research Corp 901 N Columbus St Alexandria Va	16-23	Clegg Labs Div Clegg Inc Ridgedale Ave Morristown NJ	1
Amplifiers, mixing	12	Audicon Electronics Inc 216 Lyon St Paterson 4 NJ	1-2-3-5-6-8-9-10-12-13-14- 15-16-17-18-19-20-21-22-23-24	Coils Electronics Co 2029 49 N 2nd St Phila 32 Penna	1
Amplifiers, modulator	24	Audio Equipment Co 805 Middle Neck Rd Great Neck NY	1-10	Collins Radio Co 855 35 St N E Cedar Rapids Iowa	1-2-4-7-8-9-10-12- 13-17-18-21
Amplifiers, monitoring	13	Audio Instrument Co 133 W 11th St New York 11 NY	10	Columbia Research Labs MacLade Blvd & Hultins Ln Woodlyn Pa	16-17
Amplifiers, musical instrument	14	Autogeral Electronics Co 5024 Elm St Skokie Ill	1-5-14	Commercial Radio Sound Corp 632 1 Ave New York 16 NY	1-2-4-5-6-9-10-15-21
Amplifiers, noise-suppressing	15	Avino Div ACE Industries Inc 11 Park Pl Paramus NJ	22	Communication Equipment & Engrg Co 5646 W Race Ave Chicago 44 Ill	1-6-8-18
Amplifiers, plug-in	16	Avionics Ltd P O Box 200 Niagara-on-the-Lake Ontario Canada	1-5-10-11-16-22	Communication Measurements Labs 350 Leland Ave Plainfield NJ	1
Amplifiers, recording	17	Axler Associates Inc 102-12 42 Ave New York 68 NY	1-9	Conn Organ Corp 555 E Jackson Blvd Elkhart Ind	11
Amplifiers, remote	18	Ballantine Labs Inc Boonton NJ	3	Conn Telephone & Electric Corp 70 Britannia St Meriden Conn	1-4-7-9-13- 16-22-23
Amplifiers, stereophonic	19	Barber & Howard Co East Ave Westbury RI	1-5-6	Consolidated Avionics Corp 800 Shames Dr Westbury NY	1-3-16-22
Amplifiers, tape playback	20	Barker & Williamson Inc Canal & Beaver Sts Bristol Pa	1-3-22	Consolidated Productions Inc Howard Intl Airport Ft Lauderdale Fla	16-18
Amplifiers, tone-control	21	Barrett Electronics Corp 630 Dundee Rd Northbrook Ill	1-22	Continental Electronics Ltd 302 Oakland St Brooklyn 22 NY	1-12
Amplifiers, transistor	22	Bell Aircraft Corp P O Box 1 Buffalo 5 NY	1	Control Electronics Co Inc 1925 New York Ave Huntington Sta NY	23
Amplifiers, wideband	23	Bellaire Electronics Inc 62 White St Red Bank NJ	1	Cosser Canada Ltd 301 Windsor St Halifax Nova Scotia Canada	6-23
		Bell Sound Systems Inc 555 Marion Rd Columbus 7 Ohio	1-5-6-17-19-20	Couler Electronics 5227 N Kenmore Chicago 40 Ill	3
		Bendix Aviation Corp Bendix Radio Div Baltimore 4 Md	1	Courter Products/Div Model Engrg & Mfg Inc N Lake St Buoye City Mich	1
		Bergen Labs 247 Crooks Ave Clifton NJ	1-11-16-20-22	Creative Electronics Corp 94 Lincoln Ave Stamford Conn	24
		Berkshire Labs 586 Bank Village Greenville NH	11-16-22	Crown Engineering 3821 Commercial N E Albuquerque NM	7-8-9
		Berndt-Bach Inc Auricon Div 6900 Romaine Ave Hollywood 38 Calif	1-10-11-17-20-22-24	Daven Co Route 10 Livingston NJ	1-2-3-4-7-8-9-10- 11-12-13-22-23-24
		B J Electronics Borg-Warner Corp 3300 Newport Ave Santa Ana Calif	22	Daystrom-Weston Industries Div Daystrom Inc 753 Main St Poughkeepsie NY	1-22
		Buzen-Presto Div Sieglar Corp P O Box 500 Paramus NJ	1-5-6-9-10-12-13-14-16-19-20-22	Dayton Aviation Radio & Equipment Corp P O Box 258 Troy Ohio	1-4-5-6-7-11-17-22-24
		Bosch Inc M Ten 80 Wheeler Ave Pleasantville NY	22	De Florez Co 116 E 30 St New York 16 NY	1-11-16-20-22
		Braeh Mfg Corp/Div General Bronze Corp 200 Central Ave Newark 3 NJ	1-4	Deltron Inc 2005 N Leithgow St Philadelphia 33 Pa	1-23
		Browning Labs Inc 750 Main St Winchester Mass	1-5-6-10-19	Denrad Mfg Co 310 W Woodard St Denison Texas	1-5-6-9-10
		Brush Instruments 3405 Perkins Ave Cleveland 14 Ohio	6-10-17	Denson Electronics Corp P O Box 122 Rockville Conn	1
		Bundy Electronics Corp 171 Fabyan Pl Newark 12 NJ	1-6		
		Bunnell & Co J H 81 Prospect St Brooklyn 1 NY	13-24		
		Burr-Brown Research Corp Box 6444 Tucson Ariz	1-3-22		
Aeme Electronix Div Nea Service 1200 W 3 St Cleveland 13 Ohio	1-22				
Acro Products Co 369 Shurs Lane Philadelphia 28 Pa	1				
Admiral Corp 3800 W Cortland St Chicago 47 Ill	1-23				
Advance Industries Inc 640 Memorial Dr Cambridge 39 Mass	5-19-22				
Aeroflex Labs 34-06 Skillman Ave Long Island City 1 NY	22				
Aerona Mfg Corp Middletown Ohio	1-4-11				
Aerovox Corp 740 Belleville Ave New Bedford Mass	1-2-5-11-16-21				
Airborne Accessories Corp 1414 Chestnut Ave Hillside 5 NJ	11-12-16-22				
Aircraft Radio Corp Boonton NJ	1-10				
Airtronix Development Corp 4902 Church Ave Brooklyn 3 NY	1-5-6-10-12-14-19-22				
Alden Electronic & Impulse Recording Equip Co P O Box 125 Westboro Mass	17				
Allied Radio Corp 100 N Western Ave Chicago 80 Ill	1-5-6				
Altec Lansing Corp 1515 S Manchester Ave Anaheim Calif	1-4-5-6-8-9-10-11- 12-13-16-18-19-21				
Alto Scientific Co 855 Commercial St Palo Alto Calif	22				
Ameo 2949 W Osborn Rd Phoenix Ariz	23				
American Communications Corp 280 Broadway New York 17 NY	1-4-5				
American Electronic Laboratories 121 N 7 St Philadelphia 6 Pa	1-22-23				
American Electronics Inc 655 W Washington Blvd Los Angeles 15 Calif	1-5-20				
American Machine & Foundry Co Products Group 1101 N Royal St Alexandria Va	1-6-16				
American Mica Radio Corp 235 Parker Ave Manasquan NJ	1-5				

Inswald Radio Mfg Corp Div United Scientific Labs Inc 36-15 37th Ave Long Island 1 NY	5-14	Frederick Tool & Engrg Corp 414 Pine Ave Frederick Md	11	Krohn-Hite Corp 589 Massachusetts Ave Cambridge 39 Mass	1-23
Ditaphone Corp 429 Lexington Ave New York 17 NY	1-22	Gal-Tronics Corp 507 Washington St Reading Penna	1-6-11-22	Kusa Industries Inc Tacony & Lewis Sts Philadelphia 24 Pa	1
Duty Acoustical Electronic Labs Toboyanna Penna	1-22	Gates Radio Co 128 Hampshire St Quincy Ill	1-2-7-8-9-10-12- 15-16-18-22-24	Labko Scientific Inc 111 W Elm Stillwater Okla	5-11-22
Dukane Corp St Charles Ill	1-6-7-8-9-10-11-12-13-16-18-22-23	General Chemical Div Allied Chemical 40 Hector St New York 6 NY		Lab-Tronics Inc 3658 N Lincoln Ave Chicago 13 Ill	12-22
Dunlap Electronics 764 9 St Des Moines 14 Iowa	1-2-5-6-9-10-11- 12-16-17-18-22	General Controls Co 801 Allen Ave Glendale 1 Calif		Lake Mfg Co 2323 Chestnut St Oakland 7 Calif	1
Dwyer Engrg Co Pine St Ext Nashua NH	1-11-16-22	General Electric Co Computer Dept 1104 N Central Ave Phoenix Ariz	22	Langwin Mfg Corp 47-37 Austell Pl Long Island City 1 NY	1-2-3-4-6-7-9-10-12-13- 16-18-22-23
Dyna Co 617 W 41st St Philadelphia 31 Pa	1-3-6-19	General Electric Co Specialty Electronic Component Dept W Genesee St Auburn NY	5	Leak Div British Industries Corp 20 Shore Rd Port Washington NY	1
Dynalys Development Labs Inc 11941 Wilshire Blvd Los Angeles 25 Calif	1	General Radio Co 275 Massachusetts Ave Cambridge 39 Mass	1-23	LEAR Inc 110 Ionia Ave N W Grand Rapids 2 Mich	15-22
Dynamic Electronics Inc 73-29 Woodhaven Blvd Forest Hills NY	1-3-5-6-14-16- 19-20-21-22-23	Genison Inc 2233 Federal Ave Los Angeles 64 Calif	1-6	Lehigh Valley Electronics Eng'g & Mfg Co 215 S 3 St Allentown Pa	1-6-22
Dynamic Instrument Corp 59 New York Ave Westbury NY	1	G & M Equipment Co 7215 Varna Ave N Hollywood Calif	1-6	Lel Inc 480 Oak St Copiague NY	22
Dynamics Instrumentation Co Div Alberhill Corp 1118 Mission St S Pasadena Calif	16-17-22	Godfrey Mfg Co 1635 N Halsted St Chicago 14 Ill	1	Leonard Electric Products Co 67 34 St Brooklyn 32 NY	1-5
Dynamics Research Associates Div Universal Match Corp P O Box 6841 Ferguson 21 Mo	16	Good Electric Corp Natick Mass	1-16	Ling Electronics Inc 9927 Jefferson Blvd Culver City Calif	1-5
Eberline Instrument Div Reynolds Electrical 805 Early St Santa Fe New Mexico	11-22	Goodyear Aircraft Corp 1210 Massillon Rd Akron 15 Ohio	16-22	Linslar Inc 4101 San Fernando Rd Glendale 4 Calif	1-5-6-10-11-18-19-20-22
Ely Sales Co 190 Lafayette St New York 48 NY	1	Gordon Enterprises 5362 N Cahuenga Blvd N Hollywood Calif	17	Luge Sound Engrs J M 2171 W Washington Blvd Los Angeles 18 Calif	1-6
Edin Co 207 Main St Worcester 8 Mass	15-16-17-22-21	Green Co L Charlton 314 Washington St Newton 24 Mass	1-5-18	Lynmar Engineers Inc 1432 N Carlisle St Philadelphia 21 Pa	1-23
Elec Inc P O Box 354 McLean Va	23	Green Industries Inc Electronic Products Div 9-01 Reading Rd Cincinnati 15 Ohio	1	McGowan Inc Don 3700 W Roosevelt Rd Chicago 24 Ill	1-5
Electrod Products Corp P O Box 119 St Joseph Mich	1-5	Gulton Industries Inc 212 Durham Ave Metuchen NJ	1-3-17-15	Mack Electronics Div Inc 1000 S 2 St Plainfield NJ	5-10-13-22-23-24
Electro Instrument Inc Aero Ct San Diego Calif	16-22-23	Gyro Electronics Co 325 Canal St New York 13 NY	22	Madigan Corp 526 Minnola Ave Corte Place NY	1-4-7-12-13-14-15- 16-21-22-23-24
Electrola Inc 7517 N Clark St Chicago 26 Ill	1	Hallamure Electronics Co 8352 Brookhurst Ave Anaheim Calif	1-4-22	Magnetics Co 231 Hueter Rd Ft Wayne Ind	1-22
Electromation Co 7646 18 St Santa Monica Calif	1-9-10-12-17-18	Haller Raymond & Brown Circleville Rd State College Pa	1-2-3-4-5-6-7-8-9-10-11-12-13- 16-16-17-18-19-20-21-22-23-24	Magnecord Div Midwestern Instruments Inc 1101 S Kellbourn Ave Chicago 24 Ill	1-17-19-20
Electronics Eng'g Co of Calif 1601 E Chestnut St Santa Ana Calif	9-16-20	Hall-Scott Inc 2950 N Ontario St Burbank Calif	1-22	Magnecord Div Midwestern Instruments Inc PO Box 7186 Tulsa Okla	17-20
Electronic Communication Equipment Co 1248 W Loyola Ave Chicago 26 Ill	14-6-8-9-10- 12-13-18	Hamilton Electronics 2726 Pratt Ave Chicago 45 Ill	1-1-5-6-10-12-22	Magnetic Amplifiers Inc 672 Tinton Ave New York 55 NY	1-7-11-22-24
Electronic Instrument Co 81 Withers St Brooklyn 11 NY	1-4-23	Hammerlund Mfg Co 380 W 34 St New York 1 NY	9-13	Magnetic Instrument Co 616 Commerce St Thornwood NY	1-3-8-11-16-17-22-24
Electronic Production & Development 75 Nevada St El Segundo Calif	1	Harman-Kardon Inc 520 Main St Westbury LI NY	1	Majestic Int'l Corp 79 Washington St Brooklyn 1 NY	3
Electronic Research Associates 87 Taylor Pl Cedar Grove NJ	11-22	Hazeltine Electronics Div Hazeltine Corp 59-25 Little Neck Pkwy Little Neck 62 NY	1-7-8-16-24	Majestic Intl Sales Corp 743 N LaSalle Chicago 10 Ill	1-5-16-17-19-21-24
Electronic Systems Engrg Co 993 Cravens Blvd Oklahoma City Okla	1-6-8-9-10-13-15-17-18	Heath Co 305 Territorial Rd Henton Harbor Mich	1-5-19-20	Mandrel Industrial Instruments Div Mandrel Industries Inc 6134 Glenmont Dr Houston Texas	17-22
Electrosolid Corp 7406 Varna Ave N Hollywood Calif	1-7-22	Highland Eng Co 90 Magnolia St Westbury NY	1-5	Marsant Co 25-14 Bdw Long Island City NY	1-5
Electro Sound Corp 115 Hallett St Boston 15 Mass	1-6-20	Hoffman Electronics Corp 3761 S Hill St Los Angeles 7 Calif	15	Marine View Electronics Inc 28 Main St White Plains NY	1
Electro-Voice Inc Cecil & Carroll Sts Buchanan Mich	1-3-5-7-8-22	Holland Electronics 72 E 53 St Brooklyn 1 NY	1-3-4-6-7-8-9-11-12-13- 16-17-18-20-22-23	Maurer Inc J A 35-01 31 St Long Island City 1 NY	1-5-12-13-15-17-20
Elm Labs 10 Washington Ave Brooklyn 11 Madison NY	1	Holt Instrument Labs Div Holt Harkwood Co Inc Oronto Wisc	1-3	Measurement Eng'g Ltd 232 John St Arnprior Ontario Can	1-9
Engineered Electronics Co 506 E 1 St Santa Ana Calif	14-16-22	I D E A Inc 7900 Pendleton Pk Indianapolis 26 Ind	1-5-22	Medcraft Electronic Corp 426 Great East Neck Rd Babylon NY	17-22
Engineered Magnetics Div Gulton Industries Inc 13030 Cerise Ave Hawthorne Calif	22	Indikon Co 75 Coolidge Hill Rd Watertown 72 Mass	7-13-21	Melody Master Mfg Co 2842 N Cicero Ave Chicago 41 Ill	1-5-14
E O Electronics Inc 14 Morris Ave Mountain Lakes NJ	3	Industrial Control Co 405 Albin Ave Lindenhurst LI NY	1-22	M F Electronics Co 122 E 25 St New York 10 NY	1-22
Erona Corp 551 Fifth Ave New York 17 NY	1-5-17-18-19-20	Industrial Electronics Inc 8060 Wheeler St Detroit 10 Mich	2-16	Micriam Electronics Inc 854 N Rockwell St Chicago 22 Ill	1-12-14
Eron Radio Labs Inc 637 Stewart Ave Garden City NY	8-24	Industrial Development Eng'g Assoc 7900 Pendleton Pk Indianapolis Ind	5	Microwave Eng'g Labs Inc 943 Industrial Ave Palo Alto Calif	7-8-15-22-23
Erie Resistor Corp 644 W 12 St Erie 6 Pa	1	Industrial Research Labs Div Aerona Mfg Corp Hilton & Frederick Rds Baltimore Md	1	Millen Mfg Co James 150 Exchange St Malden 48 Mass	24
Erie Resistor of Canada Ltd 7 Fraser Ave Trenton Ont Canada	1	Industrial Test Equip Co 55 E 11th St New York 3 NY	1-3-7-8-23	Minn-Honeywell Regulator Co Davies Labs Div 10721 Hanna St Beltsville Md	17-20
Fairchild Guided Missiles Div Fairchild Engine & Airplane Corp Straight Path Wyandanch LI NY	3	Industrial TV Inc 369 Lexington Ave Clifton NJ	1-22	Missouri Research Labs Inc 2109 Locust St St Louis 3 Mo	17
Fairchild Recording Equipment Co 16-40 45 Ave Long Island City 1 NY	1-5-8-17	Instruments For Industry Inc 150 Glen Cove Rd Mineola NY	23	Model Eng'g & Mfg Inc 50 Frederick St Huntington Ind	1-5-7-12-13-16-23-24
Fanon Electric Co 80 Herriman St Brooklyn 8 NY	1-5-6-7-9-10-11- 13-13-19-21-22	International Research Associates 221 Warwick Ave Santa Monica Calif	1-10-22	Moh-wk Business Machines Corp 944 Halsey St Brooklyn 33 NY	1-17-18-20-22
Ferr-Tone Corp 106 5th Ave New York 11 NY	12-17-19-20	Johnson Co E F 206 2 Ave S W Waseca Minn	1	Motiongraph Inc 4441 W Lake St Chicago 24 Ill	1-5-6-19
Ferrotron Electronics Co 693 Broadway New York 12 NY	1-10-16-22-23	Key Electric Co 14 Maple Ave Pine Brook NJ	16-23	MP Engineering Co Fairfield 3 Conn	1-5-6-21
Fidelity Amplifier Co 1633 N Halsted St Chicago 14 Ill	1-22	Kearfott Co Inc 1878 Main Ave Clifton NJ	22	Multi-Products Co 21470 Coolidge Hwy Oak Park 37 Mich	24
Fisher Berkeley Corp 4224 Holden St Emeryville 9 Calif	1-5-6-18	Kelsey-Hayes Co 3600 Military Ave Detroit 32 Mich	11-22	National Aircraft Corp 3411 Tulare Ave Burbank Calif	1
Fisher Radio Corp 21-21 44 Dr Long Island City 1 NY	1-5-6-10-19- 20-21-22	Kinevox-Hallen Div Electromation Co 1646 18 St Santa Monica Calif	1-2-10-12-17-18-20-22	National Bell Corp 6 Lafayette Ave Brooklyn 17 NY	6-14

Newcomb Audio Products Co
6324 Lexington Ave
Hollywood 32 Calif 1-4-5-6-9-10-12-14-17-18-19

Nichols & Clark Inc
321 Newburyport Turnpike
Danvers Mass 1-22

Northeast Electronics Corp
Airport Rd Concord N H 22

Northern Radio Co
143 W 22 St New York 11 NY 9

Nuclear-Electronics Corp
2632 W Cumberland St
Philadelphia 32 Pa 1-3-22-23

Nuclear Products-Erco
Div ACF Industries Inc
Riverdale Md 11

Oberline Inc
PO Box 921
Beverly Hills Calif 1-2-4-5-6-10-13-16-18-19-22

Omega Instrument Co
103 E Altadena Dr Altadena Calif 23

Owen Labs Inc
55 Beacon Pl Pasadena Calif 1-3-22

Palmer Inc M V
4002 Fruit Valley Rd Vancouver Wash 1-6-8-9

Panatron Developments Div
Delta Broadcasting Sys
941 Shesborne Ave 1-2-4-5-9-10-11-12-13-16-17-18-19-20-21-23
Dayton 8 Ohio

Patterson Moos Div Universal Winding Co
50-28 Van Wyck Expressway
Jamaica 18 NY 22

Pedersen Electronics
3667A Mt Diablo Blvd Lafayette Calif 1-6-6

Peer Inc
1200 Milton St Benton Harbor Mich 1-8

Pentron Corp
777 S Tripp Ave Chicago 24 Ill 1-12-17-19-20

Permoflux Products Co
4101 San Fernando Rd
Glendale 4 Calif 1-5-6-10-11-18-19-20-22

Philamon Labs Inc
90 Hopper St Westbury LI NY 21-22

Philbrick Researches Inc George A
230 Congress St Boston 10 Mass 3-12-16

Philmore Mfg Co
113 University Pl New York 3 NY 5-22

Pilot Radio Corp
37-06 36 St
Long Island City 1 NY 1-5-19-20-21

Polarad Electronics Corp
48-20 34th St Long Island City NY 22-23

Polytronics Inc
7326 Westmore Rd
Rockville Md 1-5-6-7-10-14-17-18-19-20-22

Potter Instrument Co
Sunnyside Blvd Plainview NY 20-22

Precision Electronics Inc
9101 King St
Franklin 3 Ill 1-5-6-10-14-17-20-21

Precision Hearing Aids
5157 W Grand Ave Chicago 39 Ill 1-19

Precision Radiation Instruments Inc
Radio Craftsman Div
4223 W Jefferson Blvd Los Angeles Calif 5

Presa Wireless Labs Inc
26 Prospect Pl W Newton 66 Mass 8-9-17

Presto Recording Corp
Box 500 Paramus NJ 1-8-10-12-13-17-19-20

Pulse Techniques Inc
1411 Palisade Ave W Englewood NJ 1-10

Pye Canada Ltd
82 Northline Rd Toronto 16 Ontario Can 1-5

Pye Telecommunications Ltd
Newmarket Rd
Cambridge England 1-6-10-18-22

Raco Electric Co
1261 Broadway New York 1 NY 22

Radiation Instrument Co
PO Box 733 Silver Spring Md 23

Radio Corp of America
Commercial Electronic Products
Front & Cooper Sts
Camden NJ 1-2-3-4-5-6-9-10-12-13-15-16-18-21-22

Radio Eng'g Co
6 State St New York 4 NY 1-5

Radio Eng'g Labs
29-01 Burden Ave Long Island City 1 NY 23

Radio Eng'g Products Ltd
1080 University St Montreal 3 Que Can 11-16

Radio Kits Inc 120 Cedar St
New York 6 NY 1

Radio Music Corp
84 S Water St Port Chester NY 1-5-6

Radiotics Inc
PO Box 186
Cokeysville Md 1

Ramo-Woolbridge Corp
5730 Arbor Vitae St
Los Angeles 46 Calif 1

Ramo-Woolbridge Corp
Electronic Instrumentation Div
PO Box 8405 Denver 10 Colo 11-22

Rauland-Borz Corp
3535 W Addison St
Chicago 18 Ill 1-5-6-9-10-11-12-13-16-17-18-19-20-21-22-23-24

Reed Co J B
1723 Cloverfield Blvd
Santa Monica Calif 1-11-16-17-24

Reconon Corp
5235 Barnett Ave Long Island City 4 NY 1

Reed & Reese Inc
717 N Lake Ave Pasadena 6 Calif 1-11-16-22

Reflectone Corp
Boston Post Rd Stamford Conn 1

Regency Div Idea Inc
7900 Pendleton Pike
Indianapolis 26 Ind 1-5

Remler Co
2101 Bryant St San Francisco Calif 1-6-10-22

Resdel Eng'g Corp
330 S Fair Oaks Ave Pasadena Calif 23

Rheem Mfg Co Electronics Div
7777 Industry Ave Downey Calif 22

Rhein Sound Systems Inc
133 Hamilton St
New Haven 5 Conn 1-6-8-10-12-13-14-17-18

Risco
265 Minna St San Francisco 3 Calif 15

Rixon Electronics Inc
2414 Reeside Dr Silver Spring Md 1-4-9-22

RME Div Electro Voice Inc
Buchanan Mich 1-5-6

Roberts Mfg Co
426 E Shaffer Cleburne Texas 1-5-6-23

Roffan Co
Topsfield Mass 1-10-22

RS Electronics Corp
PO Box 368 Sta A
Palo Alto Calif 8-11-22-23-24

Rue Products
1628 Venice Blvd Venice Calif 16

Saratoga Industries
Congress & Hallston Aves
Saratoga Springs NY 5-22

Sargent-Raymont Co
4928 E 12 St Oakland 1 Calif 1-5

Schindlers
2429 Beverly Ave Santa Monica Calif 6-22

Scott Inc H H
385 Putnam Ave
Cambridge 39 Mass 1-3-4-5-6-15-20-21

Schulmerich Electronics Inc
Carillon Hill Sellersville Pa 1-14-22

Sherwood Electronic Labs Inc
2822 W Gullom Ave Chicago 18 Ill 5

Simmonds Aerocessaries Inc
Vergennes Vt 22

Simplex Equipment Corp
55 La France Ave Bloomfield NJ 1-18-19

Simpson Mfg Co Mark
32-28 49 St
Long Island City 3 NY 1-5-10-12-14-17

Skiatron Electronics & TV Corp
180 Varick St
New York 14 NY 4-7-8-9-11-13-16-17-21-23

Solartron Electronic Group Ltd
Queens Rd
Thames Ditton Surrey England 1-3-7-22-23

Sonax Inc
78 S State Rd Upper Darby Pa 1-5-6-19-22

Sonotone Corp
PO Box 200 Saw Mill River Rd
Elmsford NY 5

S O S Cinema Supply Corp
602 W 52 St New York 19 NY 1-5-10-17

Southwestern Industrial Electronics Co
2831 Post Oak Rd
Houston 19 Texas 1-6-16-17-20-22-23-24

Stancil-Hoffman Corp
921 N Highland Ave
Hollywood 38 Calif 8-10-11-17-19-20-22

Standard Electromagnetics Inc
43-45 Carroll St Frederick Md 1

Standard Electronics Div Radio Energ Labs
30 & Borden Sts
Long Island City NY 1-8-23

Standard Instruments
PO Box 11556
Dallas 18 Texas 1-5-6-9-10-13-14-17-18-19-20-21-22-23

Statistical Instr Co
330 Haven Ave New York 33 NY 15

Sielma Inc
190 Henry St Stamford Conn 1-22

Stratford Corp
44 W 22 St New York 1 NY 1-22

Stromberg-Carlson Div General Dynamics Corp
100 Carlson Rd
Rochester 3 NY 1-2-4-6-9-13-18

Taber Instrument Corp
111 Goudry St
N Tonawanda NY 1-3-7-9-11-15-18-22-23-24

Tabet Mfg Co
1336 Ballentine Blvd Norfolk 12 Va 1

Taffet Radio & TV Co
27-05 Brooklyn-Queens Expressway
W Woodside 77 NY 1-3-6-24

Tarzian Inc Sarkes
415 N College Ave Bloomington Ind 1-8-13

Tech-Master Corp
75 Front St Brooklyn 1 NY 1-5-22

Technical Material Corp
700 Fenimore Rd
Mamaroneck NY 1-4-8-15-23-24

Techtron Electronics Ltd
129 Park Ave
Park Crest Nj 1-5-6-11-15-19-20

Telechrome Mfg Corp
28 Ranick Dr Amityville LI NY 1-4-22-23

Telectro Industries Corp
55-18 37 St
Long Island City 1 NY 1-4-5-10-12-17-19-20-22-23-24

Telemarine Communications Co
140 W Broadway New York 13 NY 1-6-24

Telematic Industries Inc
16 Howard Ave Brooklyn 7 NY 1-5-22

Telephonics Corp
Park Ave Huntington LI NY 1-10

Teletone Co of America
1668 Webster Ave New York 57 NY 14

Teletronic Labs Inc
1835 W Rosserana Ave Gardena Calif 1

Texas Instruments Inc
6000 Lemmon Ave Dallas 9 Texas 22

Thompson Products Inc Electronics Div
2196 Clarkwood Rd Cleveland 3 Ohio 22

Topper Mfg Co Inc
147-12 Liberty Ave Jamaica 35 NY 11-16-22

Transcoil Corp Worcester Pa 22

Transistor Components Co
301 Oakwood Ave E Aurora NY 1-11-22

Transistor Devices Inc
730 Blvd Kenilworth NJ 22

Transistor Electronics Co
3357 Republic Ave
Minneapolis 26 Minn 1-11-20-22

Trans-Tel Corp
910 N Orange Dr Los Angeles 38 Calif 1-4-6

Transval Eng'g Co
10401 W Jefferson Blvd
Culver City Calif 7-11-16-20-22

Trott Electronics Inc
412 Smith St Rochester 6 NY 1-16

Trutone Electronics Inc
6912 Santa Monica Blvd
Los Angeles 38 Calif 1-5-6-10-19

TV Utilities Corp
112-33 Colonial Ave Corona 68 NY 1-4-9-13

UAC Electronics Div Universal Transistor Prods
60 Bond St Westbury LI NY 1-22

United Control Corp
4540 Union Bay Pl Seattle 5 Wash 11-16-22

United Research Lab
681 Fifth Ave New York 22 NY 1-2-6-18-17

Universal Transistor Products Corp
Sylvester St
Westbury LI NY 1-5-6-16-18-22

Univox Corp
192 Warren St New York 7 NY 1

U S Recording Co
1847 S Capitol St
Washington 5 DC 1-2-5-9-10-12-13-17-18-20-21-22-23

Valandy Electronics Corp
61-35 166 St
Flushing 68 NY 1-5-6-10-14-20-22

Valco Mfg Co
4700 W Walton St Chicago 51 Ill 14

Vanity Fair Electronics
50 S 4 St Brooklyn 11 NY 1

Varo Mfg Co
2201 Walnut St Garland Texas 1

Venner Electronics Ltd
Kington By-Road
New Malden Surrey England 1-10-16-22

Vicon Inc
1553 Mesita Rd Colorado Springs Colo 1-5-22

Vidaire Electronics Mfg Corp
44 Church St Baldwin NJ 1

Virginia Electronics Co
River Rd & B & O RR
Washington 16 DC 1-4-7-8-9-10-11-12-13-16-17-18-22-28-34

Vis-U-All Products Co
303 Fuller Ave
N E Grand Rapids 3 Mich 5-17-20

Volkers & Schaffer Mfg Corp
2315 2 Ave Carman Schenectady NY 1-22-28

Voron & Co George
835 N 19 St
Philadelphia 30 Pa 1-4-5-6-8-9-10-12-13

Walkirt Co
11 W Hazel St Inglewood 8 Calif 1-11-16-22

Wallon Associates Ltd
963 Frelinghuysen Ave Newark 12 NJ 1

Warwick Mfg Corp
7300 N Lehigh Ave
Chicago 31 Ill 1-5-17-19-22

Webster Electric Co
1900 Clark St Racine Wis 1-5-6-14-19-20

Wells-Gardner & Co
2701 N Kildare Ave
Chicago 39 Ill 1-5-19-20-21

Westbury Electronics Inc
800 Shames Dr Westbury NY 3-4-7-9-23-24

West Coast Research Corp
2871 1/2 Westwood Blvd
Los Angeles 64 Calif 17

Western Electro Acoustic Lab Inc
11799 San Vicente Blvd
Los Angeles 49 Calif 1-3-5-9-10

Westinghouse Electric Corp
Industrial Electronic Dept
2519 Wilkens Ave Baltimore Md 1

Westinghouse Electric Corp
PO Box 868 Pittsburgh 30 Pa 1-7-9-21-23

Westlab Electronics Inc
590 Tuckahoe Rd Yonkers NY 1

Westrex Corp
111 8 Ave New York 11 NY 17

Wheeler Insulated Wire Co
150 E Aurora St
Waterbury 20 Conn 1-3-9-10-11-16-22-24

White Instrument Labs
Box 9006 Austin 17 Texas 16

Whitley Electronics Inc
411 S Chauncey St Columbia City Ind 5-19-20

Wide Range Recording Corp
527 N Grand Blvd
St Louis 13 Mo 11-12-13-15-16-17-19-22

Wilmar Mfg Co
1110 Truman Rd Kansas City Mo 1

Zena Engng Co
6355 Kenmore Ave Los Angeles 8 Calif 22

2—AMPLIFIERS, RF-IF

Amplifiers, antenna	1
Amplifiers, distribution	2
Amplifiers, IF	3
Amplifiers, isolation	4
Amplifiers, keying	5
Amplifiers, limiting	7
Amplifiers, line	8
Amplifiers, microwave	9
Amplifiers, mixing	10
Amplifiers, monitoring	11
Amplifiers, noise-suppressing	12
Amplifiers, radar	13
Amplifiers, R-F	14
Amplifiers, single-sideband	15
Adler Electronics Inc 1 Lefevre Lane New Rochelle NY	3-10-14
Admiral Corp 3800 W Cortland St Chicago 47 Ill	2-3-9-15-14
Aerona Mfg Corp Middletown Ohio	1-2-3-4-5-7-8-9
Aircron Inc 384 Main St Winthrop Mass	9
Airtron Inc 1108 W Elizabeth Ave Linden NJ	3-9-13-14-15
Alfred Electronics 897 Commercial St Palo Alto Calif	4-9
Ameco 2949 W Osborn Rd Phoenix Ariz	1-16
Amerac Inc 116 Topsfield Rd Wenham Mass	9
Amerac Inc Dunham Rd Beverly Mass	9-11-13
American Communications Corp 250 Broadway New York 17 NY	1-2
American Electronic Laboratories 131 N 7 St Philadelphia 6 Pa	1-9-13-14
American Machine & Foundry Co Gen Eng Labs 11 Bruce Pl Greenwich Conn	9-14
American Machine & Foundry Co Defense Products Group 1101 N Royal St Alexandria Va	1-13-10
American Mica Insulation Co 335 Parker Ave Manassas NJ	1
American Microwave Corp 11754 Vose St N Hollywood Calif	3-9-14
Amtron Corp 17 Felton St Waltham 51 Mass	14-15
Antennavision Inc 2949 W Osborn Phoenix Ariz	2-4-9-14
Applied Research Inc 75 S Bayles Ave Port Washington NY	3-13-14
Arenberg Ultrasonic Laboratory 94 Green St Jamaica Plain 30 Mass	3
A R F Products Inc P O Box 57 Ranton NM	2-9-13
A R & T Electronics Inc 1501 E 6th St N Little Rock Ark	1-2
Audion Electronics Inc 215 Lyon St Paterson NJ	3-5-7-8-9-10-11-12-13-14
Avion Div ACF Industries Inc 11 Park Pl Paramus NJ	9
Babeock Radio Eng's Inc 7942 Woodley Ave Van Nuys Calif	3
Barker & Williamson Inc Canal & Beaver Sts Bristol Pa	3-14-15-16
Bell Aircraft Corp P O Box 1 Buffalo 5 NY	14
Belock Instrument Corp 111-01 14 Ave College Point 56 NY	4
Bendix Aviation Corp Bendix Radio Div Baltimore 4 Md	4
Bergen Labs 247 Crooks Ave Clifton NJ	14
Boehme Inc H O 815 Broadway New York 10 NY	5
Bolton Labs Inc W Main St Bolton Mass	9
Bunnell & Co J H 81 Prospect St Brooklyn 1 NY	14
Calbest Electronics Co 4801 Exposition Blvd Los Angeles 16 Calif	2-4-14
Canoga Corp 5965 Sepulveda Blvd Van Nuys Calif	3-9-13
Central Electronics Inc 1247 W Belmont Ave Chicago 13 Ill	14-15
Clegg Labs Div Clegg Inc Ridgedale Ave Morristown NJ	9-15
Coils Electronics Co 2939 49 N 2nd St Phila 33 Penna	1-2-3-14
Collins Radio Co 855 35 St N E Cedar Rapids Iowa	3-9-14-15
Commercial Radio Sound Corp 652 1 Ave New York 16 NY	1
Community Eng'g Corp Box 824 State College Pa	1-14
Continental Electronics Ltd 302 Oakland St Brooklyn 22 NY	3-14
Continental Electronics Mfg Co 4212 S Buckner Blvd Dallas 27 Texas	9-13-14-15
Control Electronics Co Inc 1925 New York Ave Huntington Sta NY	3-9-13-14
Cook Co Frank R 36 S Santa Fe Dr Denver 23 Colo	14
Cosser Canada Ltd 301 Windsor St Halifax Nova Scotia Canada	3-13-14
Creative Electronics Corp 94 Lincoln Ave Stamford Conn	3-12-14-15
Crosby Labs Inc Box 233 Robbins Lane Hicksville NY	15
Daven Co Route 10 Livingston NJ	2-3-4-8-10-11-12-14-15
Dayton Aviation Radio & Equipment Corp P O Box 258 Troy Ohio	1-2-3-4-13-13
Debaon Electronics Corp P O Box 122 Rockville Conn	3-14
Dwyer Eng'g Co Pine St Ext Nashua NH	3-7
Dynamic Electronics Inc 73-29 Woodhaven Blvd Forest Hills NY	1-2-7-9-10-12-13-14-15
Dynatron Inc 717 W Amelia Ave Orlando Fla	2-5
Eidico Electronics 29-01 Barden Ave Long Island City 1 NY	5-14-15
Electronic Communications Inc 1501 72 St St Petersburg Fla	3-10-13-14-15
Electronics Inc 39 York Rd Willow Grove Pa	3
Electronics Intl Co Inc 20 N Lee St Oklahoma City 2 Okla	14
Electronic Specialty Co 5121 San Fernando Rd Los Angeles 39 Calif	1-4-9-13-14
Elk Electronics Labs Inc 333 W 22 St New York 19 NY	3-13-14
Emerson Electronic Mfg Co 8100 Florissant Ave St Louis 21 Mo	13
Entron Inc 4902 Lawrence St Bladensburg Md	1-2-10-14-15
Ereo Radio Labs Inc 637 Stewart Ave Garden City NY	1-5-15
Farnsworth Electronics Co Div I T & T 3702 E Postwie St Ft Wayne Ind	9-13
Federal Mfg & Eng's Corp 1055 Stewart Ave Garden City NY	13
Ferrotron Electronics Co 693 Broadway New York 12 NY	3-14
F R Machine Works Inc Electronic & X-Ray Div 26-12 Borough Pl Woodside 77 NY	9
Gates Radio Co 123 Hampshire St Quincy Ill	5-7-8-11-12-14
General Devices Inc P O Box 253 Princeton NJ	14
General Radio Co 275 Massachusetts Ave Cambridge 39 Mass	3
G & M Equipment Co 7315 Varma Ave N Hollywood Calif	3
Goodyear Aircraft Corp 1210 Massillon Rd Akron 15 Ohio	7-13-14-16
Granger Associates 966 Commercial St Palo Alto Calif	1-9-13-14
Grem Eng'g Co 923 Longview Rd King of Prussia Pa	9
Gruen Industries Inc/Electronic Products Div 9701 Reading Rd Cincinnati 15 Ohio	13
Gulton Industries Inc 212 Durham Ave Metuchen NJ	9
Hallamore Electronics Co 8352 Brookhurst Ave Anaheim Calif	3
Haller Raymond & Brown Circleville Rd State College Pa	2-3-4-7-8-9-10-11-12-13-14-15
Hazeltine Electronics Div/Hazeltine Corp 58-25 Little Neck Pkwy Little Neck 62 NY	1-3-4-7-9-13-14
Hewlett-Packard Co 275 Page Mill Rd Palo Alto Calif	9-14
Hoffman Electronics Corp 3761 S Hill St Los Angeles 7 Calif	3-12-14-15
I D E A Inc 7990 Pendleton Pk Indianapolis 26 Ind	14
Industrial Research Labs Div Aeronca Mfg Corp Hilton & Frederick Rds Baltimore Md	3
Instrument Corp of Fla P O Box 1226 Bldg 14 Melbourne Fla	2-14-15
Instruments For Industry Inc 150 Glen Cove Rd Mineola NY	2-3-14
International Research Associates 2221 Warwick Ave Santa Monica Calif	3
International Telemeter Corp 2000 Stoner Ave Los Angeles 25 Calif	1-2-8-16
Interstate Electronics Corp 707 E Vermont Ave Anaheim Calif	3-14
Johnson Co E F 206 2 Ave S W Waseca Minn	14-15
J-V-M Eng'g Co 4633 S Lawndale Ave Lyons Ill	9-13-14
Kay Electric Co 14 Maple Ave Pine Brook NJ	3
Kuss Industries Inc Tacony & Lewis Sts Philadelphia 24 Pa	13-14
Laboratory For Electronics Inc 75 Pitta St Boston 14 Mass	3-7-10-13-14
Lambda-Pacific Eng'g Inc 14725 Arminta St Van Nuys Calif	9
Land-Air Inc Instrument & Electronic Div 2133 Adams Ave San Leandro Calif	3-14
Land-Air Inc 7444 W Wilson Ave Chicago 31 Ill	3-14
Langevin Mfg Corp 47-37 Auatell Pl Long Island City 1 NY	3-16
Lear Inc 3171 S Bundy Dr Santa Monica Calif	1
Lear Inc 110 Ionia Ave N W Grand Rapids 2 Mich	3
Let Inc 380 Oak St Copiague NY	1-3-8-13-14
Leonard Electric Products Co 57 34 St Brooklyn 32 NY	3
Levinthal Electronic Products Inc 3180 Hanover St Palo Alto Calif	9-12-14-15
Lynnmar Engineers Inc 1432 N Carlisle St Philadelphia 21 Pa	2-14-15
Mark Electronics Div Inc 1090 S 2 St Plainfield NJ	3-14-15
Madigan Corp 526 Mineola Ave Carle Place NY	2-3-4-5-7-11-12-13-14-15
Madison-Fielding Corp 863 Madison St Brooklyn 21 NY	3
Magnasyn Mfg Co 5546 Satsuma Ave N Hollywood Calif	8
Magnavox Co 2131 Buester Rd Ft Wayne Ind	3-14
Majestic Intl Sales Corp 745 N La Salle Chicago 10 Ill	3-11
Mallory & Co Inc P R 42 S Gray St Indianapolis 6 Ind	3-8-10-14-15
Maxxon Corp W L 475 10 Ave New York 18 NY	3-9-13-14
Menlo Park Engrg 721 Hamilton Ave Menlo Park Calif	9
Microwave Eng'g Labs Inc 948 Industrial Ave Palo Alto Calif	1-2-4-7-8-9-10-13-14
Millen Mfg Co James 150 Exchange St Malden 48 Mass	3-14
Model Eng'g & Mfg Inc 30 Frederick St Huntington Ind	8-11-14-15
Mohawk Business Machines Corp 944 Halsey St Brooklyn 33 NY	14
Morrow Radio Mfg Co 2794 Market St Salem Oregon	15
Multi-Products Co 21470 Coolidge Hwy Oak Park 37 Mich	14-15
Nevada Air Products Co P O Box 2472 Reno Nev	13
Norden-Ketay Corp Commerce Rd Stamford Conn	3-13
Otis Elevator Co Electronic Div 35 Ryerson St Brooklyn 6 NY	9-13-14-15
Palmer Inc M V 4002 Fruit Valley Rd Vancouver Wash	15
Panoramic Radio Products Inc 526 Fulton Ave Mt Vernon NY	14
Polarad Electronics Corp 43-20 34 St Long Island City 1 NY	3-9-10-13-14
Polytronic Research Inc 7650 Woodbury Dr Silver Spring Md	9
Polytronics Inc 7326 Westmore Rd Rockville Md	1
Press Wireless Labs Inc 25 Prospect Pl W Newton 65 Mass	5-14
Pye Telecommunications Ltd Newmarket Rd Cambridge England	3
Radiation Inc P O Box 37 Melbourne Fla	10-11-14
Radio Corp of America Commercial Electronic Products Front & Cooper Sts Camden NJ	1-2-4-7-8-9-10-11-12-14-15
Radio Eng'g Co 8 State St New York 4 NY	3-4-11-14
Radio Eng'g Labs Inc 29-01 Borden Ave Long Island City 1 NY	14
Ramo-Woodbridge Corp 5730 Arbor Vitae St Los Angeles 45 Calif	3-14
Rauland-Borg Corp 3535 W Addison St Chicago 18 Ill	8-9-10-11-13-14-15
Reed & Reese Inc 717 N Lake Ave Pasadena 6 Calif	3-13-14
Reflectone Corp Boston Post Rd Stamford Conn	5
Reddel Eng'g Corp 330 S Fair Oaks Ave Pasadena Calif	1-2-3-4-9-13-14
Rheem Mfg Co Electronics Div 7777 Industry Ave Downey Calif	14
Rich Electronics Inc 212 NW 8 Ave Miami 36 Fla	14
Rixon Electronics Inc 2414 Reddie Dr Silver Spring Md	2
RS Electronics Corp P O Box 368 Sta A Palo Alto Calif	1-2-3-4-7-9-10-13-14
Rue Products 1628 Venice Blvd Venice Calif	14
Seg Electronics Co Inc 1778 Flatbush Ave Brooklyn 10 NY	14
Sierra Electronic Corp 3885 Bohannon Dr Menlo Park Calif	9
Spectralab Instruments 484 N Halstead Ave Pasadena Calif	9-14
Spencer-Kennedy Labs Inc 1820 Soldiers Field Rd Boston 35 Mass	1-2-8-14
Sperry Gyroscope Co Electronic Tube Div Great Neck NY	2

Sperry Gyroscope Co
Microwave Electronics Div
Great Neck NY 9

Standard Electronics Div Radio Engrg Labs
30 & Borden Sts
Long Island City NY 9-14-15

Statistical Instr Co
380 Haven Ave New York 33 NY 3-12

Stavid Eng'g Inc
U S Route 22 Plainfield NJ 9-11

Stelma Inc
190 Henry St Stamford Conn 5

Stromberg-Carlson Div General Dynamics Corp
100 Carlson Rd Rochester 3 NY 2

Taffet Radio & TV Co
27-05 Brooklyn-Queens Expressway W
Woodside 77 NY 3

Technical Material Corp
700 Fenimore Rd
Mamaroneck NY 1-2-4-5-7-8-14-15

Technical Oil Tool Corp
1067 N La Brea Los Angeles 38 Calif 9-13

Telechrome Mfg Corp
28 Ranick Dr
Amityville LI NY 2-3-4-5-7-8-9-10-11-14-15

Telectro Industries Corp
35-18 87 St
Long Island City 1 NY 2-5-7-13-14-15

Telerad Mfg Corp
Route 69 Flemington NJ 9-13

Telerad Mfg Corp
1440 Broadway New York 18 NY 3-9-13-14

Tel-Instrument Electronics Corp
728 Garden St Carlstadt NJ 2-3

Terraco Aircraft Corp
P O Box 6191 Dallas 2 Texas 1-2-4-13-14

United Electrodynamics
1200 S Marengo Ave Pasadena Calif 8

Uniwave Inc
109 Marine St Farmingdale NY 2-3-9-11

varian Associates
611 Hansen Way Palo Alto Calif 9

Virginia Electronics Co
River Rd & B & O R R
Washington 16 DC 2-3-4-5-7-8-10-11-14

Voron & Co George
835 N 19 St Philadelphia 30 Pa 5

Waldorf Instrument Co Div F C Huyck & Sons
Park Ave Huntington Station NY 1-2-3-13

Warwick Mfg Corp
7300 N Lehigh Ave Chicago 31 Ill 3

Wave Particle Corp
P O Box 252 Menlo Park Calif 9

Westbury Electronics Inc
300 Shames Dr Westbury NY 1-2-3-4-8-14

Westinghouse Electric Co Div Air Arm Div
P O Box 746 Friendship Intl A P
Baltimore Md 13

Westinghouse Electric Corp
P O Box 468 Pittsburgh 30 Pa 4-8

Westronics Inc
3605 McCart Ft Worth Texas

White Electron Devices Inc Roger
92 4 Ave Haskell NY 9-16

Young Spring & Wire Co Gannet Div
801 S Main St Burbank Calif 14

3—AMPLIFIERS, SPECIAL PURPOSE

Amplifiers, bolometer 1

Amplifiers, cathode followers 2

Amplifiers, compressor 3

Amplifiers, computer 4

Amplifiers, control 5

Amplifiers, data recording 6

Amplifiers, DC 7

Amplifiers, decade 8

Amplifiers, differential 10

Amplifiers, encapsulated 11

Amplifiers, facsimile 12

Amplifiers, integrating 13

Amplifiers, logarithmic 14

Amplifiers, magnetic 15

Amplifiers, null 17

Amplifiers, oscilloscope 18

Amplifiers, photocoil 19

Amplifiers, power 20

Amplifiers, printed circuit 21

Amplifiers, pulse 22

Amplifiers, seismograph 23

Amplifiers, servo 24

Amplifiers, strain gage 25

Amplifiers, sweep 26

Amplifiers, synchro 27

Amplifiers, transistor 28

Amplifiers, ultrasonic 29

Amplifiers, vibration pick-up 30

Acme Teletronix Div NEA Service
1200 W 11 St Cleveland 13 Ohio 12

Acoustica Associates
26 Windsor Ave Mineola NY 29

Acromag Inc
22519 Telegraph Rd Detroit 41 Mich 15-24

Acton Laboratories
533 Main St Acton Mass 10

Adler Electronics Inc
1 Lefevre Lane
New Rochelle NY 2-7-15-20-28

Admiral Corp
3800 W Cortland St
Chicago 47 Ill 18-21-24-28

Advanced Electronics Inc
94 Silas Deane Hwy Rocky Hill 9 Conn 30

Advance Industries Inc
640 Memorial Dr Cambridge 39 Mass 4-6-11

Aero Electronics Co
1512 N Wells St Chicago 10 Ill 4-24-27-28-30

Aerona Mfg Corp
Middletown Ohio 4-6-7-24

Airborne Accessories Corp
1414 Chestnut Ave
Hillside 5 NJ 2-4-5-7-10-11-13-15-20-21-24-28

Airborne Instruments Lab Inc
160 Old Country Rd Mineola NY 13-28

Airmec Ltd
High Wycombe Buckinghamshire England 4-7

Airpax Products Co, Seminole Div
City of Plantation Ft Lauderdale Fla 7-15-24

Airtronics Inc
5522 Darsey Lane Bethesda Md 4-6-11-15

Airtron Inc
1108 W Elizabeth Ave Linden NJ 15-24

Airtronix Development Corp
4902 Church Ave Brooklyn 3 NY 20

Alear Instruments Inc
17 Industrial Ave Little Ferry NJ 29

Alden Electronic & Impulse
Recording Equip Co
P O Box 125 Westboro Mass 6-12-19

Allegany Instrument Co
1091 Wills Mountain
Cumberland Md 2-5-7-10-18-19-25-30

Alto Scientific Co
855 Commercial St Palo Alto Calif 28

American Communications Corp
280 Broadway New York 17 NY 20

American Electronics Inc Instrument Div
9543 W Jefferson Blvd
Culver City Calif 24-27

American Electronic Laboratories
121 N 7 St Philadelphia 6 Pa 1-7-18

American Gyro Corp
3030 Nebraska Ave Santa Monica Calif 15

American Machine & Foundry Co
Electronics Div
1085 Commonwealth Ave
Boston 15 Mass 7-9-21

American Machine & Foundry Co
Defense Products Group
1101 N Royal St Alexandria Va 2-5-9-20-21-28

American Measurement & Control Inc
240 Calvert St Waltham 54 Mass 24

American Rectifier Corp
95 Lafayette St
New York 13 NY 6-7-11-15-20-28

American Research & Mfg Corp
920 Halpine Ave
Rockville Md 7-10-11-15-19-20-24-25-28-30

American Searchlight Corp
38 W 53 St New York NY 9 5

Amplifier Corp of America
398 Broadway New York 13 NY 3-20

Amphivox Ltd
2 Bentinck St London W 1 England 28

Amtron Corp
17 Felton St Waltham 54 Mass 20

Analogue Controls Inc
39 Roselle St Mineola NY 4-5-7-10-13-21-27

Anderson Electronic Lab
129 E 1900 S St Bountiful Utah 3-18-10

Andromeda Inc
3742 Howard Ave Kensington Md 7

Antlab Inc
6330 Proprietors Rd Worthington Ohio 1

Applied Research Inc
76 S Bayles Ave Port Washington NY 2

Applied Research Labs
3717 Park Pl Glendale 8 Calif 19

Arenberg Ultrasonic Laboratory
94 Green St Jamaica Plain 30 Mass 20

A R F Products Inc
P O Box 57 Rantion NM 21-22-28

Arnoux Corp
11824 W Washington Blvd
Los Angeles 66 Calif 6-7

A R & T Electronics Inc
1501 E 6th St N Little Rock Ark 28

Askania Regulator Co
240 E Ontario St Chicago 11 Ill 17-24

Atchley Inc Raymond
2340 Sawtelle Blvd Los Angeles 64 Calif 24

Atlantic Research Corp
901 N Columbus St Alexandria Va 2-30

Audicon Electronics Inc
216 Lyon St
Paterson 4 NJ 11-18-20-21-24-28-29-30

Audio Instrument Co
133 W 14 St New York 11 NY 2-14

Automatic Timing & Controls Inc
King of Prussia Pa 24

Auto Test Inc
600 S Michikan Ave Chicago 5 Ill 20

Autotron Inc
3629 N Vermilion St Danville Ill 10

Avion Div AGF Industries Inc
11 Park Pl Paramus NJ 4-10-11-15-24-28

Avionics Ltd P O Box 200
Niagara-on-the-Lake Ontario Canada 19-21-30

Axler Associates Inc
102-42 43 Ave New York 68 NY 17-19-28

Babeck Radio Eng'g Inc
7942 Woodley Ave Van Nuys Calif 28

Baird-Atomic Inc
33 University Rd
Cambridge 38 Mass 6-7-22-25

Baldwin-Lima-Hamilton Corp
Electronics & Instrumentation Div
42 Fourth Ave Waltham 54 Mass 25

Ballantine Lab Inc 8

Bloomington NJ 8

Parsons Development Co
213 W Baltimore Ave Lansdowne Pa 24

Harrett Electronics Corp
630 Dundee Rd Northbrook Ill 5-28

Barton Electronics Inc
1000 Farmington Ave W Hartford 7 Conn 19

Beckman-Berkeley Div Beckman Instruments Inc
2200 Wright Ave Richmond 3 Calif 4

Beckman Instruments Inc Data & Control Systems Scientific Instrument Div
325 N Muller Ave
Anaheim Calif 4-6-7-10-21-25-28

Bell Aircraft Corp
P O Box 1 Buffalo 5 NY 7-24

Bell Sound Systems
555 Marion Rd Columbus Ohio 20

Belock Instrument Corp
111-01 14 Ave
College Point 56 NY 4-5-13-15-17-28

Bendix Aviation Corp Bendix Radio Div
Baltimore 4 Md 28

Berny Labs
247 Crouka Ave Clifton NJ 13-15-24-28

Berkshire Labs
586 Hank Village Greenville NH 10-22-28

Berndt-Huch Inc Auricon Div
6900 Romaine Ave Hollywood 38 Calif 6

B & B Instruments Inc
4732 N Broad St Philadelphia 41 Pa 6

B J Electronics Horg-Warner Corp
3300 Newport Ave Santa Ana Calif 14-21-22

Bogen-Presto Div Siegler Corp
P O Box 500 Paramus N J 28

Bogue Electric Mfg Co
52 Loma Ave Paterson 8 NJ 15

Bolton Labs Inc
W Main St Holton Mass 1

Bosch Inc M Ten
80 Wheeler Ave Pleasantville NY 24

Briggs Associates
10 DeKalb St Norristown Pa 4-5-6-15-22-24

Bristol Corp
P O Box 1700 EI
Waterbury Conn 4-5-6-7-17-24-25

Brown & Sharpe Mfg Co
235 Promenade St Providence 1 RI 25

Bruno-New York Industries Corp
480 W 34 St New York 1 NY 11-28

Brush Instruments
3405 Perkins Ave Cleveland 14 Ohio 6-24-25

Bundy Electronics Corp
171 Fabian Pl Newark 12 NJ 15-23

Burr-Brown Research Corp
Box 6444 Tucson Ariz 8-10-29

Burroughs Corp Electronic Instruments Div
1205 Vine St Philadelphia 7 Pa 15-22

Calif Magnetic Control Corp
11922 Valerio St N Hollywood Calif 11-15

Calif Technical Industries Div Tectron Inc
1421 Old County Rd Belmont 10 Calif 1-14

Canadian Applied Research Ltd
1500 O'Connor Dr Toronto 16 Can 24-28

Cedar Eng'g Inc
5906 W 36 St Minneapolis 16 Minn 15-24-27

Centralab Div Globe-Union Inc
900 E Kiefe Ave Milwaukee 1 Wisc 11-21-28

Central Electronics Inc
1247 W Belmont Ave Chicago 13 Ill 8-21-28

Centronics Inc
2741 N Naomii St Burbank Calif 24

Century Electronics Corp
34 Oleander St Cocoa Fla 6-7-9

Century Electronics & Instruments Inc
1333 N Utica P O Box 6216 Pine Sta
Tulsa 10 Okla 6-15-25-30

Century Electronics
2741 N Naomii St Burbank Calif 24

Century Projector Corp
729 7 Ave New York 19 NY 19-20

CG Electronics Corp
1500 Central St Albuquerque New Mex 29

CGS Laboratories Inc
Routes 7 & 85 Ridgefield Conn 15

Chicago Electronic Eng'g Co
3223 W Armitage Ave Chicago 47 Ill 15

Chicago Magnetic Control
1616 N Damen Ave Chicago 47 Ill 15

Cinema-Television Ltd
Worsley Bridge Rd Lower Sydenham
London S E 26 England 7

Clark Controller Co
1146 E 152 St Cleveland 10 Ohio 15

Cleveland Metal Specialties Co
1783 E 21 St Cleveland 14 Ohio 21

Clevite Corp Texas Div
3732 Westmeier Rd Houston 6 Texas 23

Coast Coil Co
5333 W Washington Blvd
Los Angeles Calif 15

Coils Electronics Co
2939 49 N 2nd St Phila 33 Penna 30

Collins Radio Co
855 35 St N E Cedar Rapids Iowa 20-24

Columbia Research Labs
Marclade Blvd & Bullens La
Woodlyne Pa 2-6-30

Communication Accessories Co
U S 60 Hwy Lees Summit Mo 15

Community Eng'g Corp
Box 824 State College Pa 18-21

Compton Corp
778 Pleasant St Belmont 79 Mass 4-5-21-28

Computer Eng'g Associates Inc 360 N Halstead St Pasadena Calif 4-6-7-13-25	Electric Boat Div General Dynamics Eastern Point Rd Groton Conn 4-5-24-30	General Radio Co 275 Massachusetts Ave Cambridge 39 Mass 7-17-20-22-29-30
Computing Devices of Canada Ltd P O Box 508 Ottawa Ontario Can 4-24-28	Electro Instrument Inc Aero Ct San Diego Calif 7-8-25-28	Genisco Inc 2233 Federal Ave Los Angeles 64 Calif 30
Conn Telephone & Electric Corp 70 Britannia St Meriden Conn 2-5-7-11-24-29	Electromation Co 1646 18 St Santa Monica Calif 6-11	Geotechnical Corp 3112 Haggard Dr Dallas 9 Texas 1-7-19-23
Consolidated Avionics Corp 300 Shames Dr Westbury NY 4-5-6-7-8-10-22-24-28-30	Electronic Assembly Co 5 Prescott St Roxbury 19 Mass 20	Geotronic Labs Inc 1314 Cedar Hill Ave Dallas 8 Texas 23
Consolidated Controls Corp 4 Durant Ave Bethel Conn 6-7-15-24	Electronic Associates Inc Long Branch NJ 2-4-5-6-7-13-14-21-24-25-27-28	Gerst & Co Paul E 4868 N Clark St Chicago 40 Ill 15-24-25
Consolidated Electrodynamics Corp 300 N Sierra Madre Villa Pasadena Calif 6-7-25-30	Electronic Communications Inc 1601 72 St St Petersburg Fla 5-12-22	Gertach Products Inc 3211 La Cienga Blvd Los Angeles 25 Calif 17
Consolidated Productions Inc Howard Int'l Airport Ft Lauderdale Fla 5-19-20	Electronic Computer Co 6191 Ridge Ave Phila 28 Pa 4-7-10-25	Gond Electronics Corp 17-19 Brook St Newton 58 Mass 15-21-25-29
Control Div Magnetics Inc Box 391 Butler Pa 15	Electronic Control Corp 1573 E Forest Ave Detroit 7 Mich 19	Gordon Enterprises 5362 N Cahuenga Blvd N Hollywood Calif 6
Control Circuits Inc 103 Court St Middletown Conn 4-5-6-7-11-17-21-22-24	Electronic Eng Co of Calif 1601 E Chestnut St Santa Ana Calif 6-7-25	Gotham Audio Development Corp 2 W 46 St New York 36 NY 20
Control Data Corp 501 Park Ave Minneapolis 15 Minn 4-5-6-15-21-22-24	Electronic Production & Development 138 Nevada St El Segundo Calif 15	GPS Instrument Co 411 Hoylston St Boston 16 Mass 4-7-10-13
Control Specialists Inc 115 E Arbor Vitae St Inglewood 1 Calif 24-28	Electronic Research Associates 67 Factory Pl Cedar Grove NJ 7-11-19-28	Granger Associates 866 Commercial St Palo Alto Calif 20-22
Cook Co Frank R 36 S Santa Fe Dr Denver 23 Colo 24	Electronics Inc 39 York Rd Willow Grove Pa 21	Graphic Recorders Inc 14 Edgewood Ave Trumbull Conn 24
Cosser Canada Ltd 301 Windsor St Halifax Nova Scotia Canada 18-22-26	Electronics Intl Co Inc 20 N Lee St Oklahoma City 2 Okla 21-28	Gray Mfg Co 15 Arbor St Hartford 1 Conn 24-27-28
Courier Products Div Model Eng'g & Mfg Inc N Lake St Hoyne City Mich 17-24	Electronic Specialty Co 5121 San Fernando Rd Los Angeles 39 Calif 7-15	Gruen Industries Inc Electronic Products Div 9701 Reading Rd Cincinnati 15 Ohio 6-17-24-28
Creative Electronics Corp 94 Lincoln Ave Stamford Conn 20	Electronic Systems Eng'g Co 903 Cravena Blvd Oklahoma City Okla 3-5	Gulton Industries Inc 212 Durham Ave Metuchen NJ 2-6-8-11-13-15-21-24-25-28-30
Crescent Eng'g & Research Co 5440 N Peck Rd El Monte Calif 5-24-25-28-30	Electronic Tube Corp 1200 E Mermaid Lane Phila 18 Pa 7-10-18-25-30	Gyro Electronics Co 325 Canal St New York 13 NY 28
Crown Engineering 3821 Commercial N E Albuquerque N M 3	Electro Products Labs Inc 4501 N Ravenwood Ave Chicago 40 Ill 22	Hagan Chemicals & Controls Inc 343 E Ave Pittsburgh 30 Pa 4-5-7-20-24
Curtis-Wright Corp Electronics Div 631 Central Ave Carlsbad NJ 4-5-7-11-15-19-20-25	Electro Systems Inc 1035 Westminster Ave Alhambra Calif 5-24	Hallamore Electronics Co 8352 Brookhurst Ave Anaheim Calif 7-24
Cycle Transformer Corp 356 Glenwood Ave E Orange 11 N J 15	Electro Vision Lab 41-08 45th St Long Island City 1 NY 5-19-24	Haller Raymond & Brown 1-2-3-4-5-6-7-8-10-11-12-13-14-15-17-18-19-20-21-22-23-24-25-26-27-28-29-30
Dallona Labs 5066 Santa Monica Blvd Los Angeles 29 Calif 16-28-20	Elk-Electronic Labs Inc 333 W 52 St New York 19 NY 1-17-22-26-28	State College Pa 22-23-24-25-26-27-28-29-30
Datran Electronics 1836 Rosecrans Ave Manhattan Beach Calif 24	Ellis Associates 67 Lincoln Ave Pelham NY 7-10-18-25-28	Hallikainen Instruments 1341 7 St Berkeley 10 Calif 5-19
Daven Co Route 10 Livingston NJ 2-5-7-11-18-20-21-28	Empire Products Sales Corp 37 Prospect St Amsterdam NY 20	Hall-Scott Inc 2950 N Ontario St Burbank Calif 4-14-28
Daytronic Corp 216 S Main St Dayton 2 Ohio 5-6-25-30	Endevco Corp 161 E California St Pasadena Calif 30	Hamilton Electronics 2726 Pratt Ave Chicago 45 Ill 20-28
Decorey Eng'g Lab 11828 W Jefferson Blvd Culver City Calif 15-28	Engineered Electronics Co 506 E 1 St Santa Ana Calif 2-4-6-7-21-22-28	Hamilton Standard Electronics Dept Main St Broad Brook Conn 13-17-20-21-22-24-28-30
Dr Florez Ct 116 E 30 St New York 16 NY 7-19-20-21-24-28	E O Electronics Inc 14 Myria Ave Mountain Lakes NJ 8-18	Hammarlund Mfg Co 460 W 34 St New York 1 NY 22-28
Depron Inc 2905 N Leithgow St Philadelphia 33 Pa 14	Espeo Inc 588 Commonwealth Ave Boston 15 Mass 7-10-25	Hammer Electronics Co P O Box 531 Princeton NJ 22
Designers for Industry 4241 Fulton Pkwy Cleveland 9 Ohio 22-20	Eswood Inc 1770 W Berteau Ave Chicago 13 Ill 30	Hanson-Gorrell-Brian 85 Hazel St Glen Cove NY 5-20-24-25
Detect-O-Ray Co 26-22 N Halsted St Chicago 14 Ill 19	Farnsworth Electronics Co Div I T & T 3702 E Pontiac St Ft Wayne Ind 24	Hazeltine Electronics Div/Hazeltine Corp 59-25 Little Neck Pkwy Little Neck 62 NY 2-4-13-20-21-22-24
Detroit Controls Corp Norwood Controls Unit 394 Washington St Norwood Mass 15-25	Federal Hill & Engz Corp 1058 Stewart Ave Garden City N Y 24	Hewlett-Packard Co 275 Page Mill Rd Palo Alto Calif 22
Devol Research Co Brookside Dr Greenwich Conn 15-24	Federal Telecommunication Labs Div I T & T 937 Commercial St Palo Alto Calif 28	Hoffman Electronics Corp 373 S Hill St Los Angeles 7 Calif 15-20-28
Diatron Co 3327 Dixie Dr Houston 21 Texas 7	Feedback Controls Inc 899 Main St Waltham 54 Mass 7-15-24-28	Horan Labs Inc 155 Perry St New York 14 NY 6-12
Dictophone Corp 420 Lexington Ave New York 17 NY 21-28	Fertran Electronics Co 693 Broadway New York 12 NY 20-21-22-28	Holland Electronics 772 E 63 St Brooklyn NY 31-24-25-28-29
Doty Acoustical Electronic Labs Tobyhanna Penna 11-21-28	Fidelity Amplifier Co 1633 N Halsted St Chicago 14 Ill 28	Holt Instrument Labs Div Holt Harkwood Co Inc Oroquo Wis 20
Dukane Corp St Charles Ill 4-5-7-10-11-21-24-28	Fielden Instrument Div Robertshaw-Fulton Controls Co 2820 N 4 St Philadelphia 33 Pa	Hoover Electronics Co 112 W Timonium Rd Timonium Md 7-24
DuMont Labs A N 750 Bloomfield Ave Clifton NJ 10-18-28	Fisher Controls Corp 4224 Holden St Emeryville 8 Calif 21	Iupp Electronics Co Div Hupp Corp 743 Circle Ave Forest Park Ill 19-28
Dunlap Electronics 764 S De Moines Iowa 21	Fisher Eng'g Inc P O Box 327 Huntington Ind 15	I D E A Inc 7900 Pendleton Pk Indianapolis 26 Ind 28
Dwyer Engz Co Pine St Ext Nashua NH 7-11-13-21-28	Flow Corp 85 Myatic St Arlington Mass 10	Indikon Co 78 Coolidge Hill Rd Watertown 72 Mass 25-30
Dynalys Development Labs Inc 11941 Wilshire Blvd Los Angeles 25 Calif 4-7-9	Forbes & Wagner Inc 343 Central Ave Silver Creek NY 15	Industrial Control Co 805 Albin Ave Lindenhurst LI NY 7-15-17-20-21-24-25-28
Dynamic Development Co 59 New York Ave Westbury NY 17-24	Foto-Vidco Labs Inc 25 Amity St Little Falls NJ 2-5-9-22-31	Industrial Electronics Inc 8660 Wheeler St Detroit 10 Mich 24
Dynamic Electronics Inc 73-29 Woodhaven Blvd Forest Hills NY 22-26	Franklin Electronics Inc E 4th St Bridgeport Pa 4-6-22	Industrial Research Labs Div Aeronca Corp Hilltop & Frederick Rds Baltimore Md 4-6-9-20-24-25
Dynamic Instrument Corp 59 New York Ave Westbury NY 5-17-20-24-27	Freed Transformer Co 1718-36 Weirfield St Brooklyn 27 NY 15-17-29	In Test Equip Co 55 E 11th St New York 3 NY 2-4-5-7-8-9-17-24-31
Dynamics Instrumentation Co Div Alberhill Corp 1118 Mission St S Pasadena Calif 6-7-25-28-30	F-R Machine Work Inc Electronic & X-Ray Div 28-12 Borough Pl Woodside 77 NY 1	Industrial TV Inc 369 Lexington Ave Clifton NJ 18-28
Dynamics Research Associates Div Universal Match Corp P O Box 5841 Ferguson 21 Mo 5-7-10-11-18-15-19-25	Gai-Tronics Corp 607 Washington St Reading Penna 28	Instrument Development Labs Inc 67 Mechanic St Attleboro Mass 19
Dynatronic Inc 717 W Amelia Ave Orlando Fla 22-24-28	Gates Radio Co 123 Hampshire St Quincy Ill 4-20-21-28	International Research Associates 2221 Warwick Ave Santa Monica Calif 7-21-28
Eclipse-Pioneer Div Bendix Aviation Corp Teterboro NJ 4-5-15-24-28	Gavitt Wire & Cable Co Central St Brookfield Mass 21	International Research & Development Corp P O Box 55 Worthington Ohio 30
Edin Co 207 Main St Worcester 8 Mass 2-6-7-10-18-21-24-25-27-30	General Chemical Div Allied Chem & Dye 40 Rector St New York 6 NY 4-5-15-17-24-25-27	International Resistance Co 401 N Broad St Philadelphia 8 Pa 15
Elect Inc P O Box 354 McLean Va 2-4-7-8-18-22-25-28	General Controls Co 801 Allen Ave Glendale 1 Calif 4-5-15-17-24-25-27	International Telephone & Telegraph Corp Industrial Products Div 250 Garabaldi Ave Lodi NJ 17
Eldco Electronics 29-01 Barden Ave Long Island City 1 NY 20	General Devices Inc P O Box 253 Princeton NJ 6-22-28	Interstate Electronics Corp 707 E Vermont Ave Anaheim Calif 7-21
Eldorado Electronics Co 2821 10 St Berkeley 10 Calif 22	General Electric Co Computer Dept 1103 N Central Ave Phoenix Ariz 4-6-7-10-21-25-28	Johnson Electronics Inc P O Box 1675 Hwy 17-92 Caselberry Fla 15
Electrical & Physical Instrument Corp 42-19 27 St Long Island City 1 NY 22-31	General Electric Co Apparatus Sls Div 1 River Rd Schenectady 5 NY 15-24	Jordan Co 3235 W Hampton Ave Milwaukee 9 Wisc 24
	General Electric Co Communication Products Dept P O Box 1122 Syracuse NY 20	Kalbfleis Electronix 3400 Midway Dr San Diego 10 Calif 7-10-15-28-28
	General Magnetics Inc 135 Bloomfield Ave Bloomfield NJ 15	
	General Precision Lab Inc 21 N Santa Anita Ave Pasadena 4 Calif 24	

Kay-Towne Antenna Co Box 593 Rome Ga	23	Malory & Co Inc P R 42 E Gray St Indianapolis 6 Ind	21	Omega Instrument Co 103 E Altadena Dr Altadena Calif	6-31
Kearfott Co Inc 1878 Main Ave Clifton NJ	13-15-24-27	Mandrel Industrial Instruments Div Mandrel Industries Inc 5134 Glenmont Dr Houston Texas	6-7-18-23	Onondaga Pottery Co 1855 W Fayette St Syracuse 1 NY	21
Keithley Instruments Inc 12415 Euclid Ave Cleveland 6 Ohio	2-7-8-10-14-29	Manning Maxwell & Moore Inc Industrial Controls Div Shelter Rock Lane Danbury Conn	5-7-21-25-28	Ortho Filter Corp 190 Albion Ave Paterson 2 NJ	15
Kelsey-Hayes Co 3600 Military Ave Detroit 32 Mich	4-5-7-10-11-13-21-24-28	Manning Maxwell & Moore Inc 250 E Main St Stratford Conn	25	Osborne Electronic Corp 712 S E Hawthorne Blvd Portland 14 Ore	15
Kenyon Transformer Co 840 Barry St New York 69 NY	15	Matthew Labs 146 Riverdale Ave Yonkers NY	19	Oster Mfg Co John Avionic Div 1 Main St Racine Wisc	24
Keystone Products Co 904-6 23rd St Union City NJ	11-15-24	Maurer Inc J A 37-01 31 St Long Island City 1 NY	3-15-19-24	Otis Elevator Co Electronic Div 35 Ryeon St Brooklyn 5 NY	4-5-23-24-29
Kintel 1646 18 St Santa Monica Calif	6-11	Maxson Corp W L 475 10 Ave New York 18 NY	14-24	Owens Labs Inc 55 Heaton Pl Pasadena Calif	7-8-28-29
Kistler Instrument Corp 15 Webster St N Tonawanda NY	30	Maxson Instruments Div W L Maxson Corp 47-37 Austell Pl Long Island City 1 NY	15-24-28	Packard Bell Electronics Corp 12333 W Olympic Blvd Los Angeles 64 Calif	5-7-10-15
Kollmorgen Optical Corp 347 King St Northampton Mass	24	Measurement Eng'g Ltd 232 John St Arnprior Ontario Can	7-19	Packard Instrument Co P O Box 424 La Grange Ill	22-28
Kollsman Instrument Corp Standard Coil Products 80-08 45 Ave Elmhurst 73 NY	15	Medcraft Electronic Corp 426 Great East Neck Rd Babylon NY	25-28	Palmer Inc M V 4092 Fruit Valley Rd Vancouver Wash	3
Krohn-Hite Corp 580 Massachusetts Ave Cambridge 39 Mass	7-20-29	M E Electronics Co 122 E 25 St New York 10 NY	5-11-21-28-29	Panatron Developments Div Delta Broadcasting Sys 941 Sheddmore Ave Dayton 8 Ohio	2-20
Kuss Industries Inc Tacony & Lewis Sta Philadelphia 24 Pa	20	Michigan Electronics Inc 554 N Rockwell St Chicago 22 Ill	28	Parsons Co Ralph M Electronics Div 151 S De Lacey Ave Pasadena Calif	6-7
Labko Scientific Inc 111 W Elm Stillwater Okla	16-21-28	Micro Gee Products Inc 6319 W Slauson Culver City Calif	24	Patterson Mous Div Universal Winding Co 90-28 Van Wyck Expressway Jamaica 15 NY	14
Laboratory For Electronics Inc 75 Pitts St Boston 14 Mass	15-22	Micrometrical Mfg Co 345 S Main St Ann Arbor Mich	6	Pedersen Electronics 3965 A Mt Diablo Blvd Lafayette Calif	2
Lab-Tronics Inc 3656 N Lincoln Ave Chicago 13 Ill	30	Microwave Eng'g Labs Inc 943 Industrial Ave Palo Alto Calif	7	Peer Inc 1200 Milton St Benton Harbor Mich	3
Land-Air Inc Instrument & Electronic Div 2133 Adams Ave San Leandro Calif	28	Mid-Century Instrument Corp 611 Broadway New York 12 NY	4-6	Pezanos Labs Inc 3690 W 11 Mile Rd Berkley Mich	7-24
Land-Air Inc 7444 W Wilson Ave Chicago 31 Ill	30	Midwestern Instruments P O Box 7186 Tulsa Okla	17-24	Penn-East Eng'g Corp Box 240 Kutztown Penna	15
Langevin Mfg Corp 47-37 Austell Pl Long Island City 1 NY	15-20-21-22-24-28	Milgo Electronic Corp 7601 N W 31 Ave Miami 47 Fla	2-4-5-6-7-10-13-14-24-28	Pentron Corp 777 S Tripp Ave Chicago 24 Ill	15
Leair Inc 8171 S Bundy Dr Santa Monica Calif	5-15-24-27	Millen Mfg Co James 150 Exchange St Malden 48 Mass	18-26	Permoflux Products Co 4101 San Fernando Rd Glendale 4 Calif	11-20-28
Lear Inc 110 Ionia Ave N W Grand Rapids 2 Mich	27-28	Minitran Corp 5 Oliver St Newark 2 NJ	15	Peschel Electronics Inc 13 Garden St New Rochelle NY	8
Leads & Northrup Co 4970 Stenton Ave Philadelphia 44 Pa	7-17	Minneapolis Honeywell Heiland Div 5200 E Evans Ave Denver 22 Colo	6-7-13-25-30	Philamon Labs Inc 90 Hopper St Westbury LI NY	28
Lee Electric & Mfg Co 2806 Clearwater St Los Angeles 39 Calif	155	Minn-Honeywell Regulator Co Davies Labs Div 10721 Hanna St Beltsville Md	6	Phillbrick Researches Inc George A 239 Congress St Boston 10 Mass	2-4-5-6-7-8-10-13-17-19-21-22-24-25-26
Lehigh Valley Electronics Eng'g & Mfg Co 215 R St Allentown Pa	20-28	Minn-Honeywell Boston Div 1400 Soldiers Field Rd Boston 35 Mass	15-17	Phoenix Precision Instrument Co 3803 N 5 St Philadelphia 40 Pa	1-10-14-17-19-24
Lel Inc 380 Oak St Copiague NY	14-28	Minn-Honeywell Regulator Co Aeronautical Div 2600 Ridgway Ave	2-4-5-7-8-10-11-13-14-15-17-20-21-24-28	Photobell Co 43 Vesey St New York 7 NY	19
Levinthal Electronic Products Inc 3180 Hanover St Palo Alto Calif	22	Minn-Honeywell Regulator Co Instruments Div Wayne & Windrim Aves Philadelphia 44 Pa	24	Photocore Research Products 421 N Altadena Dr Pasadena Calif	7-20-25
Librascope Inc 808 Western Ave Glendale Calif	4-5-13-15	Misileonica Inc P O Box 716 Melbourne Fla	2	Photron Instrument Co 6516 Detroit Ave Cleveland 2 Ohio	4-6-7-19-25-30
Light Electric Co 214 Lackawanna Ave Newark 3 NJ	18	Missouri Research Labs Inc 2109 Locust St St Louis 3 Mo	4-5-7-10-18-21-25-27-29-30	Piezo Products Co Whitney St Sherborn Mass	15
Lindly & Co 248 Herricks Rd Mineola NY	19-28	Mold Engrg & Mfg Inc 59 Frederick St Huntington Ind	18-20-24	Pilot Radio Corp 37-04 36 St Long Island City 1 NY	20
Ling Electronics Inc 9937 Jefferson Blvd Culver City Calif	2-30	Modern Industries Inc 2601 Colorado Ave Santa Monica Calif	5-7-9-11-15-17-20-24-25-27-28	Plectron Corp Overton Ndr Polard Electronics Corp 43-20 34 St Long Island City 1 NY	2-7-14-21-28
Link Aviation Inc Binghamton NY	24	Moran Instrument Corp 170 E Orange Grove Ave Pasadena 8 Calif	6-17-24	Polyphase Instrument Co E 4 St Bridgeport Pa	25
Linlar Inc 4101 San Fernando Rd Glendale 4 Calif	11-20-28	Muirhead Instruments Inc 677 E Ave New York 22 NY	17-21-27-30	Polytronic Research Inc 7660 Woodbury Dr Silver Spring Md	18-21
Liquidometer Corp 41-03 86 St Long Island City 1 NY	4-5-17-24-27-28	Narda Microwave Corp 119-160 Herricks Rd Mineola NY	1	Polytronics Inc 7925 Westmarc Rd Rockville Md	18-20
Liston-Becker Plant Beckman Instruments Inc 649 Hope St Springdale Conn	7	National Scientific Labs Inc 2010 Massachusetts Ave N W Washington DC	21-28	Potter Instrument Co Sunnyside Blvd Plainville NY	4-6-15
Litton Industries of Md Inc 4910 Calvert Rd College Park Md	15-24-27	Navigation Computer Corp 1621 Snyder Ave Phila Penna	6-22	Power Supplies Inc 1005 Olive St Highland Ill	15-29
Luther Mfg Co 7312 Varna Ave N Hollywood Calif	24-28	Networks Electronic Corp 14806 Oxnard St Van Nuys Calif	15	Precision Electronics Inc 9101 King St Franklin Pk Ill	2-19
McKenna Laboratories 2503 Main St Santa Monica Calif	29	Nichols & Clark Inc 321 Newburytpk Tpk Danvers Mass	28	Precision Honing Aids 5157 W Grand Ave Chicago 39 Ill	5
Macarr Inc 2543 Boston Rd New York 67 NY	19	Newcomb Audio Products Co 6824 Lexington Ave Hollywood 38 Calif	20	Precision Inc 730 N Lyndale Ave Minneapolis 11 Minn	24
Machinery Electrification Inc 35 Hudson St Northboro Mass	19	Neff Instrument Corp 2211 E Foothill Blvd Pasadena Calif	6-25-28	Press Wireless Labs Inc 25 Prospect Pl W Newton 65 Mass	3-5-12
Mack Electronics Div Inc 1000 B 2 St Plainfield NJ	3-4-10-15-20-24-27-28-29	Non-Linear Systems Inc Del Mar Airport Del Mar Calif	7	Process & Instruments 15 Stone Ave Brooklyn 33 NY	7-10
Mack Electronics Div Mack Trucks Inc 40 Leon St Boston 15 Mass	24	Norden-Ketay Corp Precision Components Div 6 Jericho Tpk Commack NY	15-24-27-28	Pye Telecommunications Ltd Newmarket Rd Cambridge England	21-28
MacLeod & Hanopol 10 Roland St Charlestown 29 Mass	10	North American Electronics Inc 2420 N Lake Ave Altadena Calif	6-7-28	Quitron Transformer Corp 525 Broadway New York 12 NY	15
Madigan Corp 525 Mineola Ave Carle Place NY	2-3-4-5-7-8-10-14-20-21-22-24-26-28	North American Instruments Inc 2420 N Lake St Altadena Calif	6-8	Radiation Counter Labs Inc 5121 W Grove St Skokie Ill	5
Magnavox Co 2131 Bueter Rd Ft Wayne Ind	15-24-27-28	Nuclear Corp of America 400 Park Ave New York 22 NY	11	Radiation Inc P O Box 37 Melbourne Fla	24-25
Magnetic Amplifiers Inc 632 Tinton Ave New York 55 NY	4-5-7-15-20-24-28	Nuclear-Electronics Corp 2632 W Cumberland St Philadelphia 32 Pa	2-5-7-18-19-20-22-28-29-30	Radiation Instrument Co P O Box 733 Silver Spring Md	22
Magnetic Circuit Elements Inc 8722 Park Pl Montrose Calif	15	Nuclear Products-Erco Div ACF Industries Inc Riverdale Md	7-21	Radiation Instrument Development Lab Inc 5737 S Haledel St Chicago 21 Ill	4
Magnetic Controls Co 6403 Cambridge St Minneapolis 16 Minn	5-7-11-15-17-20-21-24	Nucleonic Corp of America 196 Degraw St Brooklyn 31 NY	22	Radio Eng'g Labs 25-01 Borden Ave Long Island City 1 NY	20
Magnetic Instrument Co 546 Commerce St Thornwood NY	2-4-5-7-8-10-14-15-18-24-25-28	NYT Electronics Inc 2979 N Ontario St Burbank Calif	15	Radio Kits Inc 120 Cedar St New York 6 NY	28
Magnetic Research Corp 3160 W El Segundo Blvd Hawthorne Calif	7-11-15-17-19-24-25-30	Office Electronics Inc 5320 N Kedzie Ave Chicago 25 Ill	6-7-10-25-28	Radio Music Corp 84 S Water St Port Chester NY	20
Maico Co Inc 21 N 3rd St Minneapolis 1 Minn	28			Radionics Inc P O Box 186 Cockeyville Md	7-15-20-28

Ransom Research Box 269 823 W 7 St San Pedro Calif	21-28	Sonex Inc 73 S State Rd Upper Darby Pa	28	Tripl-T Electronics Co Box 5352 Pasadena Calif	28
Rauland-Borg Corp 3535 W Addison St Chicago 18 Ill	2-3-20-22-24	Southern Instruments Computer Div Frimley Rd Camberley Surrey England	4-6-7	Tri-Tronics Co 2607 St Charles Rd Bellwood Ill	19
Rayco Electronic Mfg Inc 11116 Cumpston St N Hollywood Calif	7-15	Southwestern Industrial Electronics Co 2831 East Oak Rd Houston 19 Texas	2-4-5-6-7-11-15-18-20 21-22-23-24-25-28-30	Troit Electronics Inc 412 Smith St Rochester 6 NY	2-6-7-11-19-20-22
Raymond Engrg Lab Inc Smith St Middletown Conn	15	Spencer-Kennedy Labs Inc 1320 Soldiers Field Rd Boston 35 Mass	22	Tullamore Electronics Lab 8053 S Ashland Ave Chicago 36 Ill	2-7-14-22
Raytheon Mfg Co Commercial Equip Div 100 River St Waltham 54 Mass	24	Sperry Gyroscopic Co Microwave Electronics Div Great Neck NY	1	UAC Electronics Div Universal Transistor Prods Corp 50 Bond St Westbury LI NY	7-8-22
Rea Co J B 1723 Cloverfield Blvd Santa Monica Calif	4-5-6-24	Spivey Inc James S 4908 Hampden Lane Washington 14 DC	18-20-22	United Control Corp 4540 Union Bay Pl Seattle 5 Wash	4-5-6-7-10-11-13-15-17- 18-19-20-22-24-25-27-29
Recd & Reese Inc 717 N Lake Ave Pasadena 6 Calif	11-15-21-24-28	Springfield Enterprises 138-17 Springfield Blvd Springfield Gardens 13 NY	19-28	Ultradyn Eng'g Labs P O Box 3308 Albuquerque New Mex	6-30
Reeves Instrument Corp Roosevelt Field Garden City NY	6-7-24	Standard Electronics Div Radio Engrg Labs 30 & Borden Sts Long Island City NY	20	United Electrodynamics 1200 S Marengo Ave Pasadena Calif	2-6-23-28-30
Reflectone Corp Boston Post Rd Stamford Conn	4-15	Standard Electronics Research Corp 2 E End Ave New York 21 NY	15	United Transformer Corp 150 Varick St New York 13 NY	15
Reliance Electric and Engrg Co 24701 Euclid Ave Cleveland 17 Ohio	5-7-21	Statistical Instr Co 330 Haven Ave New York 33 NY	4-7-10-14-29	Universal Transistor Products Corp 36 Sylvester St Westbury LI NY	11-28
Remington Rand Div Sperry Rand Corp 315 4 Ave New York 10 NY	4-10	Stavid Engrg Inc U S Route 22 Plainfield NJ	24	U S Gauge Div American Machine & Metals Sellersville Pa	27-28
Remler Co 2101 Bryant St San Francisco Calif	20	Stoelting Co C H 424 N Homan Ave Chicago 24 Ill	7-16	Velandy Electronics Corp 61-35 166 St Flushing 68 NY	18-28
Reidel Engrg Corp 380 S Fair Oaks Ave Pasadena Calif	10	Stratford Corp 44 W 28 St New York 1 NY	11	Vapor Heating Corp 80 E Jackson Blvd Chicago 4 Ill	15
Research Electronics Lab Rosllyn Pa	7-26	Stromberg-Carlson Div General Dynamics Corp 100 Carlson Rd Rochester 3 NY	3-4-5-6-7-9-21	Vari-L Co 432 Fairfield Ave Stamford Conn	15
Rese Engrg Inc 781 Arch St Philadelphia 6 Pa	22	Strong Electric Corp 87 City Park Ave Toledo 1 Ohio	27	Varo Mfg Co 2201 Walnut St Garland Texas	15-20
Rheem Mfg Co Electronics Div 7777 Industry Ave Downey Calif	4-5-6-7-15-21-28	Summit Electronic Products 14706 Arminta St Van Nuys Calif	11-15	Vectrol Engrg Inc P O Box 1089 Stamford Conn	19-24
Rhein Sound Systems Inc 133 Hamilton St New Haven 5 Conn	3-20	Syntronic Instruments Inc 100 Industrial Rd Addison Ill	26	Venner Electronics Ltd Kingston By-Road New Molden Surrey England	28
Rho Eng Co 2242 Sepulveda Blvd Los Angeles Calif	28	Taber Instrument Corp 1-2-4-5-6-7-8-10- 111 Goundry St N Tunawanda	11-17-18-19-20-21-22- 23-24-27-28-29-30	Vickers Inc Electric Products Div 1987 Locust St St Louis 3 Mo	5-7-10-11-13-15-19-24-25-27-28
Rich Electronics Inc 212 NW 8 Ave Miami 36 Fla	6-28	Taffet Radio & TV Co 27-05 Brooklyn-Queens Expressway W Woodside 77 NY	2-7-18-24	Victoreen Instrument Co 5806 Hough Ave Cleveland 3 Ohio	22
Rixon Electronics Inc 2414 Reddie Dr Silver Spring Md	28	Ta-Mar Inc 11571 W Jefferson Blvd Culver City Calif	21-28	Videon Electronic Corp 902 E Michigan St Indianapolis Ind	29
RME Div Electro Voice Inc Buchanan Mich	28	Tare Electronics Inc 48 Urban Ave Westbury LI NY	18-22	Viking Industries Inc 21843 Roseme Blvd Canoga Park Calif	24
Robinette Co W C 802 Fair Oaks Ave S Pasadena Calif	24	Taylor Instruments Companies 95 Ames St Rochester 1 NY	4-6-7	Virginia Electronics Co River Rd & B & O R R Washington 16 DC	3-5-7-11-20-21-25-26-28
RS Electronics Corp P O Box 368 Sta A Palo Alto Calif	20-21-22-25	Technical Material Corp 700 Fenimore Rd Mamaroneck NY	3-5	Vis-U-All Products Co 303 Fuller Ave N E Grand Rapids 8 Mich	21
Rue Products 1528 Venice Blvd Venice Calif	11-20	Technical Oil Tool Corp 1057 N La Brea Los Angeles 38 Calif	21-24	Volkers & Schaffer Mfg Corp 2315 2 Ave Carman Schenectady NY	9-10-16-18-21- 23-25-28-31
Sanborn Co 175 Wyman St Waltham 54 Mass	6-7-10-14-25	Technograph Printed Electronics 185 Valley St Tarrytown NY	21	Voron & Co George 835 N 19 St Philadelphia 30 Pa	2-5-7-20-29
Sangano Electric Co 11th & Converse Springfield Ill	15	Tektrotron Inc P O Box 831 Portland 7 Ore	7-10-18	Wacline Inc 35 S St Clair St Dayton 2 Ohio	7
Saratoga Industries Congress & Ballston Aves Saratoga Springs NY	15-21-24-28	Telectron Mfg Corp 28 Ranick Dr Amityville LI NY	5-7-8-10-14-20-22- 24-25-26-27-28	Waldorf Instrument Co Div F C Huyck & Sons Park Ave Huntington Station NY	4-5-6-7-10-11- 13-24-27
Schaevitz Eng'g U S Rte 130 & Schaevitz Blvd Camden NJ	24	Telectro Industries Corp 35-18 37 St Long Island City 1 NY	2-4-5-6-11-13- 15-20-24-28-29	Walkirt Co 141 W Hazel St Inglewood 3 Calif	2-4-10-11-20-22-28
Schirmer-National Alarm Co 20 Westside Ave Bergenfield NJ	5-15-29-30	Telephonic Corp Park Ave Huntington LI NY	7	Wallson Associates Ltd 963 Frelinghuysen Ave Newark 12 NJ	15
Schulmerich Electronics Inc Carillon Hill Sellersville Pa	24-28	Telerad Mfg Corp 1440 Broadway New York 18 NY	22	Warren Mfg Co Newtown Rd Littleton Mass	15-24
Scientific-Atlanta Inc 2162 Piedmont Rd N E Atlanta 9 Ga	1	Telex 1693 Eustia St St Paul 1 Minn	15-21	Wave Particle Corp P O Box 252 Menlo Park Calif	26
Seismograph Service Corp 6200 E 41 St Tulsa 1 Okla	23	Texas Instruments Inc 6000 Lemmon Ave Dallas 9 Texas	28	Weinchel Eng'g 10503 Metropolitan Ave Kensington Md	1
Semcum 262 E 16 St Paterson 4 NJ	8-21-28	Texas Instruments Inc Industrial Instrumentation Div 3809 Buffalo Speedway Houston 6 Texas	6-7-18-20-23-28	West Coast Research Corp 2371 1/2 Westwood Blvd Los Angeles 64 Calif	4-5-6-7-8-21- 22-24-25-27-28
Seneca Falls Machine Co 314 Fall St Seneca Falls NY	24-28	Thompson Products Inc Electronics Div 2196 Clarkwood Rd Cleveland 3 Ohio	5-11-15-24-27	Western Electro Acoustic Lab Inc 11789 San Vicente Blvd Los Angeles 49 Calif	2-20-30
Servo Corp of America 2020 Jericho Turnpike New Hyde Park NY	24	Topper Mfg Co Inc 147-12 Liberty Ave Jamaica 35 NY	29	Western Electronic Co 717 Dexter Ave Seattle 9 Wash	4
Servomechanisms Inc 12500 Aviation Blvd Hawthorne Calif	4-5-7-8-15-20-24-28	Topp Industries Inc 8907 Wilshire Blvd Beverly Hills Calif	15-24-28	Westinghouse Electric Co Div Air Arm Div P O Box 746 Friendship Intl A P Baltimore Md	4-5-6-7-15-22
Servomechanisms Inc 1200 Prospect Ave Westbury NY	24	Torwico Electronics Inc 1090 Morris Ave Union NJ	15-28	Westinghouse Electric Corp Industrial Electronic Dept 2519 Wilkens Ave Baltimore Md	29
Servonics Inc 822 N Henry St Alexandria Va	4-15-24	Tracerlab Inc 1601 Trapelo Rd Waltham 54 Mass	10-22	Westinghouse Electric Corp P O Box 868 Pittsburgh 30 Pa	5-7-10-11-15-24-26-28
Servo-Recording Instruments Inc 1815 W Van Buren St Phoenix Ariz	22-28	Trans Electronics Inc 7349 Canoga Ave Canoga Park Calif	5-7-10	Westronics Inc 3605 McCart Ft Worth Texas	24
Servo Systems Co 55 Meeker Ave Newark 12 NJ	5-24	Transformers Inc 200 Stage Rd Vestal NY	15	Wheeler Insulated Wire Co 150 E Aurora St Waterbury 20 Conn	2-5-7-11-15-20- 21-22-27-28
Servo-Tek Products Co 1086 Goffe Rd Hawthorne NJ	24	Transistor Components Co 301 Oakwood Ave E Aurora NY	9-11-20-21-28	Wicks Eng'g & Construction Co 12 St & Ferry Ave Camden 4 NJ	15
Sierra Electronic Corp 3885 Bohannon Dr Menlo Park Calif	22	Transistor Devices Inc 730 Blvd Kenilworth NJ	28	Wide Range Recording Corp 527 N Grand Blvd St Louis 3 Mo	21-28
Sigmatyne of Conn P O Box 869 Port Chester NY	5	Transistor Electronics Co 3357 Republic Ave Minneapolis 28 Minn	11-21-28	Wilmar Mfg Co 1110 Truman Rd Kansas City Mo	7
Signal Transformer Co 1661 McDonald Ave Brooklyn NY	15	Transline Electronic Communication Co 95 Summit St Newark 3 NJ	12-19-20-28	Worner Electronic Devices Rankin Ill	5-19
Simmonds Aerospace Inc Vergennes Vt	5-17-24-28	Transonic Inc 808 16 St Bakersfield Calif	15	Zena Eng'g Co 6355 Kenmore Ave Los Angeles 8 Calif	24-28
Simplex Equipment Corp 55 La France Ave Bloomfield NJ	20	Transval Engrg Corp 10401 W Jefferson Blvd Culver City Calif	9-24-28		
Skiatron Electronics & TV Corp 180 Varick St New York 14 NY	2-4-6-7-10-18-19- 20-21-22-26-27	Treco Inc 3824 Terrace St Philadelphia 28 Pa	15		
Solartron Electronic Group Ltd Queens Rd Thames Ditton Surrey England	4-7-10-13-18-20- 21-24-27-28-30				

4—AMPLIFIERS, TELEVISION

Amplifiers, booster	1
Amplifiers, distribution	2
Amplifiers, isolation	3
Amplifiers, keying	4
Amplifiers, limiting	5
Amplifiers, line	6
Amplifiers, mixing	7
Amplifiers, monitoring	8
Amplifiers, montage	9
Amplifiers, remote	10
Amplifiers, sweep	11
Amplifiers, television	12
Amplifiers, video	13

Adler Electronics Inc 1 Lefevre Lane New Rochelle NY	1-2-3-7-13
Admiral Corp 3800 W. Cortland St Chicago 47 Ill	12
Aerolite Electronics Corp 2207 Summit Ave Union City NJ	2-12
Altec Lansing Corp 1515 S Manchester Ave Anaheim Calif	1
American Electronic Laboratories 121 N 7 St Philadelphia 6 Pa	13
American Microwave Corp 11754 Vose St N Hollywood Calif	13
Amplitel Inc 342 W 40 St New York 18 NY	1-2-3-6-7-10-12
Antennavision Inc 2949 W Osborn Phoenix Ariz	1-2-3-6-7-12-13
A R F Products Inc P O Box 57 Ranton NM	1-2-6-7-8
A R & T Electronics Inc 1501 E 6th St N Little Rock Ark	1-2
Blonder-Tongue Laboratories 9-25 Alling St Newark 2 NJ	1-2-12
Buss-Clement-Doughten & Associates 201 H Studio Hill Chester Springs Pa	2-7-8-10-11-12
Cinema-Television Ltd Worsley Bridge Rd Lower Sydenham London S E 26 England	8
Coils Electronics Co 2939 49 N 2nd St Phila 33 Penna	2
Commercial Radio Sound Corp 652 1 Ave New York 16 NY	13
Community Eng'g Corp Box 824 State College Pa	1-2-12
Control Electronics Co Inc 1925 New York Ave Huntington Sta NY	13
Dage TV Div Thompson Products W 10 St Michigan City Ind	2-13
Daven Co Route 10 Livingston NJ	2-3-6-7-8-10-12-13
Dunlap Electronics 764 9 St Des Moines 14 Iowa	6-7-8-10
Electronics Intl Co Inc 20 N Lee St Oklahoma City 2 Okla	1-2-4
Entron Inc 4902 Lawrence St Bladensburg Md	1-2-7-10-12
General Precision Lab Inc 21 N Santa Anita Ave Pasadena 8 Calif	2-4
General Precision Lab Inc 21 N Santa Anita Ave Pasadena 8 Calif	2-6
General Precision Lab Inc 63 Bedford Rd Pleasantville NY	2-12-13
Haller Raymond & Brown Greenville Rd State College Pa	7-11-13
Harrison Labs 45 Industrial Rd Berkeley Heights NJ	12
I D E A Inc 7900 Pendleton Pk Indianapolis 26 Ind	1
Instruments for Industry Inc 150 Glen Cove Rd Mineola NY	13
Insul-K-Electronics 1369 Industrial Rd San Carlos Calif	6-8-12-13
Jerrold Electronics Corp 23 Chestnut Sta Philadelphia 3 Pa	1-2
Kearfott Co Inc 1378 Main Ave Clifton NJ	1
Langevin Mfg Corp 47-37 Austell Pl Long Island City 1 NY	1-2-3-6-7
Lynmar Engineers Inc 1432 N Carlisle St Philadelphia 21 Pa	2-3
Madigan Corp 526 Mineola Ave Carle Place NY	1-2-4
Northeastern Eng'g Inc 25 S Bedford St Manchester NH	7-4
Polaraid Electronics Corp 45-20 34 St Long Island City 1 NY	2-3-8-10-12-13
Precision Electronics Inc 9101 King St Franklin Pk Ill	1
Pye Canada Ltd 42 Northline Rd Toronto 16 Ontario Canada	1-2-3-4-5-6-7-8-9-10-11-12-13
Radio Corp of America Commercial Electronics Products Front & Cooper Sts Camden NJ	1-2-3-4-5-6-7-8-10-11-12-13
Radio Eng'g Labs 29-01 Borden Ave Long Island City 1 NY	12
Rams-Woolbridge Corp 5730 Arbor Vitae St Los Angeles 45 Calif	2-8
Research Electronics Lab Roslyn Pa	11
Resitron Labs Inc 2908 Nebraska Ave Santa Monica Calif	10
Seg Electronics Co Inc 1778 Flatbush Ave Brooklyn 10 NY	12

Skiatron Electronics & TV Corp 180 Varick St New York 14 NY	1-2-3-5-6-8-11-12-13
Spencer-Kennedy Labs Inc 1320 Soldiers Field Rd Boston 35 Mass	1-2-6-12
Standard Electronics Div Radio Eng'g Labs 30 & Borden Sts Long Island City NY	12-13
Stromberg-Carlson Div General Dynamics Corp 100 Carlson Rd Rochester 8 NY	1
Taber Instrument Corp 111 Goundry St N Tonawanda NY	13
Tare Electronics Inc 48 Urban Ave Westbury L I NY	2-3-5-6-7-9-10-12-13
Tarzian Inc Sarkes 415 N College Ave Bloomington Ind	1-2-3-5-7-8-12-13
Telechrome Mfg Corp 28 Runk Dr Amityville L I NY	1-2-3-4-5-6-7-8-9-10-11-12-13
Telectro Industries Corp 35-18-37 St Long Island City 1 NY	4-13
Telephonics Corp Park Ave Huntington LI NY	1
Tel-Instrument Electronics Corp 728 Garden St Carlstadt NJ	2-12-13
Temco Aircraft Corp P O Box 6191 Dallas 2 Texas	2
Transline Electronic Communication Co 95 Summit St Newark 8 NJ	13
Trans-Tel Corp 910 N Orange Dr Los Angeles 38 Calif	2
Transvision Inc 460 North Ave New Rochelle NY	2-12
TV Utilities Corp 112-33 Colonial Ave Corona 68 NY	2-6-8
Univac Inc 109 Marine St Farmingdale NY	2-6
Video Electronic Corp 902 E Michigan St Indianapolis Ind	1
Waldom Electronics Inc 4625 W 53 St Chicago 32 Ill	2
Warwick Mfg Corp 7300 N Lehigh Ave Chicago 31 Ill	12-13
Webster Electric Co 1909 Clark St Racine Wisc	1
Westbury Electronics Inc 300 Shames Dr Westbury NY	1-2-4-12
Winder Aircraft Corp of Fla P O Box 2397 Drane Fld Lakeland Fla	1

5—ANALYZERS

Analyzers, antenna pattern	1
Analyzers, audio-amplifier	2
Analyzers, cable	3
Analyzers, capacitor	4
Analyzers, circuit	5
Analyzers, coincidence	6
Analyzers, color	7
Analyzers, crystal	8
Analyzers, differential	9
Analyzers, digital	10
Analyzers, dimensional	11
Analyzers, electrochemical	12
Analyzers, engine	13
Analyzers, frequency	14
Analyzers, gas	15
Analyzers, harmonic	16
Analyzers, intermodulation	17
Analyzers, internal combustion	18
Analyzers, magnetic	19
Analyzers, microwave	20
Analyzers, noise	21
Analyzers, radar	22
Analyzers, servo	23
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Analyzers, surface	26
Analyzers, transducer	27
Analyzers, transistor	28
Analyzers, ultrasonic	29
Analyzers, vibration	30
Analyzers, video	31
Analyzers, waveform	32

Acoustica Associates 28 Windsor Ave Mineola NY	29
Advanced Electronics Inc 94 Silas Deane Hwy Rocky Hill 9 Conn	30
Advanced Instruments 45 Kenneth St Newton Highlands 61 Mass	12
Aero Electronics Co 1512 N Wells St Chicago 10 Ill	30
Aeronca Mfg Corp Middletown Ohio	12
Airborne Electronics Co 6813 Troost Ave N Hollywood Calif	24
Airborne Instruments Lab Inc 160 Old Country Rd Mineola NY	1-8-21
AiResearch Mfg Co Div Garrett Corp 9851 Sepulveda Blvd Los Angeles 45 Calif	27

Airmec Ltd High Wycombe Buckinghamshire England	16-28-32
Airtronics Inc 6522 Darsey Lane Bethesda Md	1
Allegany Instrument Co 1091 Wills Mountain Cumberland Md	5-26-27
Aloe Scientific 5665 Kingsbury Blvd St Louis 12 Mo	7
Allo Scientific Co 855 Commercial St Palo Alto Calif	5
American Electronic Laboratories 121 N 7 St Philadelphia 6 Pa	14-10
Analogue Controls Inc 39 Roselle St Mineola NY	9
Analytic Systems Co Div/Research Instrument Corp 980 N Fair Oaks Ave Pasadena Calif	16
Anderton Electronic Lab 129 E 1800 S St Bountiful Utah	2
Antlab Inc 6330 Proprietors Rd Worthington Ohio	1
Applied Research Labs 3717 Park Pl Glendale 8 Calif	24
A I F Products Inc PO Box 57 Ranton NM	17-32
Associated Missile Products Sub American Mch & Fdry 2709 W Garey Ave Pomona Calif	23
Atlas Precision Products Co 3301 Casser Ave Philadelphia 24 Pa	3
Audicon Electronics Inc 216 Lyon St Paterson 4 NJ	5-22-23-27-28-29
Audio Accessories 279 Broadway Amityville NY	3
Audio Instrument Co 133 W 14 St New York 11 NY	17
Automation Instruments Inc Industrial Pk Boulder Colo	29
Auto Test Inc 600 S Michigan Ave Chicago 5 Ill	13-18
Axler Associates Inc 102-42 43 Ave New York 68 NY	7-15
Bach-Simpson Ltd 1255 Brydges St London Ont Canada	4-14
Bailey Meter Co 1050 Ivanhoe Rd Cleveland 10 Ohio	15
Baird-Atomic Inc 33 University Rd Cambridge 38 Mass	6-24
Baker & Co 113 Astor St Newark 2 NJ	15
Barker & Williamson Inc Canal & Beaver Sta Bristol Pa	2-16-17
Barnes Development Co 213 W Baltimore Ave Lansdowne Pa	4-28
Beckman Instruments Inc Process Instruments Div 2500 Fullerton Rd Fullerton Calif	15
Bendix Aviation Corp 1104 Fisher Bldg Detroit 2 Mich	13
Bendix Aviation Corp Cincinnati Div 3130 Wasson Rd Cincinnati 8 Ohio	15
Bendix Aviation Corp Bendix Computer Div 5630 Arbor Vitae St Los Angeles 45 Calif	9-10
Benson-Lehner Corp 11930 W Olympic Blvd Los Angeles 64 Calif	11
Bergen Labs 247 Crooks Ave Clifton NJ	12
B & H Instrument Co 3479 W Vickery Blvd Ft Worth 7 Texas	13-14
B J Electronics Borg-Warner Corp 330 Newport Ave Santa Ana Calif	6-9
B & K Mfg Co 3726 N Southport Chicago Ill	5
Bolton Labs Inc W Main St Bolton Mass	20-21
Boonton Electronics Corp 738 Speedwell Ave Morris Plains NJ	4-14-16
Bristol Co PO Box 1790 El Waterbury Conn	5-12
Brush Instruments 3405 Perkins Ave Cleveland 14 Ohio	14-21-23-24-25-26-30
Bunnell & Co J H 81 Prospect St Brooklyn 1 NY	32
Calif Technical Industries Div Textron Inc 1421 Old County Rd Belmont 10 Calif	1-2-3-5
Cambridge Instrument Co Grand Central Terminal New York 17 NY	15
Canoga Corp 5955 Sepulveda Blvd Van Nuys Calif	20-22-24
Central Electronics Inc 1247 W Belmont Ave Chicago 13 Ill	32
Central Scientific Co 1700 Irving Park Rd Chicago 13 Ill	15
Central Scientific Co of Canada Ltd 146 Kendall Ave Toronto 4 Ont Canada	15
CG Electronics Corp 1500 Central St Albuquerque New Mex	28
Chemalloy Electronics Corp Gillespie Airport Santee Calif	20
Chesapeake Instrument Corp Shady Side Md	21-27
Cleveland Instrument Co 735 Carnegie Ave Cleveland 15 Ohio	11-26
Clevite Corp Texas Div 3732 Westmeier Rd Houston 6 Texas	30
Collins Radio Co 855 86 St NE Cedar Rapids Iowa	20
Computing Devices of Canada Ltd PO Box 508 Ottawa Ontario Can	24
Consolidated Diesel Electric Corp 860 Canal St Stamford Conn	13

Consolidated Electrodynamics Corp 300 N Sierra Madre Villa Pasadena Calif	12-15-25-27-30	Gow-Mac Instrument Co 100 Kings Rd Madison NJ	15	Metronix Inc 75 Wilson Mills Rd Chesterland Ohio	24
Cornell-Dubilier Electric Corp 383 Hamilton Blvd S Plainfield NJ	4	Granger Associates 966 Commercial St Palo Alto Calif	20-22-24	Microwave Eng'g Labs Inc 943 Industrial Ave Palo Alto Calif	20
Cosmar Canada Ltd 301 Windsor St Halifax Nova Scotia Canada	13	Grem Eng'g Co 923 Longview Rd King of Prussia Pa	20	Mine Safety Appliances Co 201 N Braddock Ave Pittsburgh 8 Pa	15-21
Crescent Eng'g & Research Co 5440 N Peck Rd El Monte Calif	27-30	Gulton Industries Inc 212 Durham Ave Metuchen NJ	27-29	Minn-Honeywell Regulator Co Davies Labs Div 10721 Hanna St Beltsville Md	14-16-24-25
Crown Engineering 3421 Commercial NE Albuquerque NM	32	Haller Raymond & Brown Circleville Rd State College Pa	2-5-8-9-14-16-20-21-22- 23-24-25-27-28-31-32	Missouri Research Labs Inc 2109 Locust St St Louis 3 Mo	22-23
Cunningham Son & Co James 33 Litchfield St Rochester 8 NY	3-5	Hallikainen Instruments 1341 7 St Berkeley 10 Calif	7-15	Muirhead Instruments Inc 677 5 Ave New York 22 NY	14-16-21-30-32
Dallons Labs 5966 Santa Monica Blvd Los Angeles 29 Calif	8-29	Hall-Scott Inc 2950 N Ontario St Burbank Calif	15	National Aircraft Corp Electronics Div 3411 Tulare Ave Burbank Calif	19-28
Daven Co Route 10 Livingston NJ	2-28-32	Hamilton Standard Electronics Dept Main St Broad Brook Conn	30	National Instrument Labs Inc 828 Evaris St NE Washington DC	5-15
Davenport Mfg Co 1713 N Ashland Ave Chicago 22 Ill	3-5	Hammer Electronics Co PO Box 531 Princeton NJ	9	Norden-Kelley Corp Commerce Rd Stamford Conn	28
Defender Instrument & Regulator Co Boody Ill	15-18	Hays Corp 742 E 8th St Michigan City Ind	15	Northeast Electronics Corp Airport Rd Concord NH	22
Demoray-Bonardi Corp 780 S Arroyo Pkwy Pasadena Calif	20-24	Hazeltine Electronics Div/Hazeltine Corp 59-25 Little Neck Pkwy Little Neck 62 NY	7-24-31	Northeastern Eng'g Inc 25 S Bedford St Manchester NH	24
Designers for Industry 4241 Fulton Pkwy Cleveland 9 Ohio	24	Heath Co 305 Territorial Rd Benton Harbor Mich	2-16-17	NRC Equipment Corp 160 Charlemont St Newton Highlands 61 Mass	15
Devo Eng'g Inc PO Box 387 Caldwell NJ	15	Hewlett-Packard Co 275 Page Mill Rd Palo Alto Calif	32	Nuclear-Chicago Corp 223 W Erie St Chicago 10 Ill	24
Dit-Mco Inc Electronics Div 911 Broadway Kansas City Mo	3-5	Hoffman Electronics Corp 3761 S Hill St Los Angeles 7 Calif	14-24	Nuclear Corp of America 400 Park Ave New York 22 NY	24
Donner Scientific Co 888 Galindo St Concord Calif	32	Industrial Control Co 805 Albin Ave Lindenhurst LI NY	23	Otis Elevator Co Electronic Div 35 Ryerson St Brooklyn 5 NY	9-10
DuMont Labs A B 750 Bloomfield Ave Clifton NJ	13	Industrial Research Labs Div Aeronca Mfg Corp Hilltop & Fredericks Rd Baltimore Md	20	Pacific Automation Products 1000 Air Way Glendale 1 Calif	3
Dunn Eng'g Associates 225 O'Brien Hwy Cambridge 39 Mass	28	Ind Test Equip Co 55 E 11th St New York 3 NY	2-14-16-23	Packard Bell Computer Corp 11766 W Pico Blvd Los Angeles 64 Calif	9
Dyna-Empire Inc 1075 Stewart Ave Garden City 1,1 NY	19-27	Instrumentation Associates 17 W 60 St New York 23 NY	15	Packard Instrument Co P O Box 428 La Grange Ill	6-24
Dynamic Electronics Inc 73-29 Woodhaven Blvd Forest Hills NY	2	Instrument Lab 315 W Walton Pl Chicago 10 Ill	6	Paco Electronics Co Inc 70-31 84th St Glendale 27 LI NY	4-5-28
Dynatron Inc 717 W Amelia Ave Orlando Fla	24	Instruments Inc 122 N Madison St Tulsa Okla	4	Panoramic Radio Products Inc 520 Fulton Ave Mt Vernon NY	14-16-17-21-24-29-30
Edin Co 207 Main St Worcester 8 Mass	14-24-32	International Research & Development Corp. P O Box 55 Worthington Ohio	30-32	Parvin Instruments Div Patent Button Co Waterbury 20 Conn	12-17
Eldorado Electronics Co 2821 10 St Berkeley 10 Calif	6	International Telephone & Telegraph Corp. Industrial Products Div. 250 Garabaldi Ave Lodi NJ	16	Perkin-Elmer Corp Main Ave Norwalk Conn	7-24
Electric Boat Div General Dynamics Eastern Point Rd Groton Conn	30	Irwin Labs 1238 S Gerhart Ave Los Angeles 22 Calif	19	Phoenix Precision Instrument Co 3883 N 5 St Philadelphia 40 Pa	7-9-12-15
Electronic Associates Inc Long Branch NJ	1-9	Isotopes Specialties Co Box 688 Burbank Calif	24	Polarad Electronics Corp 43-20 34 St Long Island City 1 NY	1-13-20-22-23-24-32
Electronic Control Systems 2231 Harrington Ave Los Angeles 64 Calif	4-14-21-28-31	Jackson Electrical Instrument Co 18 S Patterson Blvd Dayton 2 Ohio	5	Polyphase Instrument Co E 4 St Bridgeport Pa	13-28
Electronic Research Associates 67 Factory Pl Cedar Grove NJ	28	Johnson Aircraft Eng'g Co M J Morristown Airport Box 10	3-5	Polytechnic Research & Development Co 202 Tillary St Brooklyn 1 NY	1-20-24
Electronic Specialty Co 5121 San Fernando Rd Los Angeles 39 Calif	1	Johnson-Williams Inc 2625 Park Blvd Palo Alto 15 Calif	15	Polytronic Research Inc 7660 Woodbury Dr Silver Spring Md	20-24
Electronic Tube Corp 1200 E Mermaid Lane Phila 18 Pa	25-30-32	Kahn & Co 541 Windsor St Hartford 1 Conn	30	Precision Apparatus Co 70-31 84 St Glendale 27 LI NY	4-5-28
Electro Photo 297 Broadway New York 7 NY	12	Kaiser Aircraft & Electronics Corp Toledo Electronics Div P O Box 427 Toledo Ohio	5	Process & Instruments 15 Stone Ave Brooklyn 33 NY	15
Elk Electronics Labs Inc 333 W 52 St New York 19 NY	2-14-16-17-32	Kay Electric Co 14 Maple Ave Pine Brook NJ	1-2-3-4-5-7-8-14-21- 24-28-30-31-32	Pye Telecommunications Ltd Newmarket Rd Cambridge England	3-5-31-32
Ellison Draft Gage Co 548 W Monroe St Chicago 6 Ill	15	Kearfott Co Inc 1378 Main Ave Clifton NJ	20	Pyramid Electric Co 1445 Hudson Blvd N Bergen NJ	4
Empire Devices Products Corp 38-15 Hell Blvd Hayside 61 NY	21	King Electric Equipment Co 9123 Inman Ave Cleveland 5 Ohio	13-15	Quantum Electronics Inc 2312 Wisconsin St N E Albuquerque N Mex	28
Empire Product Sales Corp 37 Prospect St Amsterdam NY	17-21-32	Kingston Electronic Corp North St Medfield Mass	5-32	Radar Engineers 401 E 45 St Seattle 5 Wash	3
Ercona Corp 551 Fifth Ave New York 17 NY	7-11-12-15-24-26	Kistler Instrument Corp 15 Webster St N Tonawanda NY	13-18-27	Radiation Counter Labs Inc 5121 W Grove St Skokie Ill	9-24
Erwood Inc 1770 W Berteau Ave Chicago 13 Ill	30	Kruger Instruments Harold 3115 W Valley Blvd San Gabriel Calif	15	Radiation Inc P O Box 37 Melbourne Fla	24
Farnsworth Electronics Co Div 1 T & T 3702 E Pontiac St Ft Wayne Ind	2	Kuass Industries Inc Tacony & Lewis Sts Philadelphia 24 Pa	7-15-31-32	Radiation Instrument Development Lab Inc 5737 S Halsted St Chicago 21 Ill	6
Fecker Inc J W 6682 Hamilton Ave Pittsburgh 6 Pa	4-14	Lab-Tronics Inc 3556 N Lincoln Ave Chicago 13 Ill	30	Radio City Products Co Cedar & Glendale Sts Easton Pa	4-5
Feller Eng'g & Mfg Co 8026 N Monticello Ave Skokie Ill	5	Land-Air Inc Instrument & Electronic Div 2133 Adams Ave San Leandro Calif	13-30	Radionics Inc P O Box 186 Cockeyville Md	2
Femco Inc Box 32 Irwin Pa	25	Land-Air Inc 7444 W Wilson Ave Chicago 31 Ill	13-30	Railway Communications Inc 9351 E 59 St Raytown 33 Mo	32
Ferrotron Electronics Co 693 Broadway New York 12 NY	25	Lavoie Labs Inc Matawan-Freehold Rd Morganville NJ	5-24	Ramo-Wooldrige Corp Electronic Instrumentation Div PO Box 8405 Denver 10 Colo	28
Furro Scientific Co 833 Lincoln St Evanston Ill	6	Leeds & Northrup Co 4970 Stenton Ave Philadelphia 44 Pa	15	Raytheon Mfg Co 100 River St Waltham 54 Mass	24
Futo-Video Labs Inc 26 Amity St Little Falls NJ	14-31	Lektra Labs Inc 154 11 Ave New York 11 NY	7	Raytheon Mfg Co Commercial Equip Div 100 River St Waltham 64 Mass	24
Foxboro Co Neponset Ave Foxboro Mass	15	Ling Electronics Inc 9937 Jefferson Blvd Culver City Calif	30	Republic Aviation Corp Farmingdale LI New York	3-5-14-21-23-24
Franklin Electronics Inc E 4th St Bridgeport Pa	6-24	Liquidometer Corp 41-03 36 St Long Island City 1 NY	4	Research Electronics Lab Roslyn Pa	28
F-R Machine Works Inc Electronic & X-Ray Div 26-12 Borough Pl Woodside 77 NY	1-20-24	Liston-Becker Plant Beckman Instruments Inc 849 Hays St Springdale Conn	15	Rese Eng'g Inc 731 Arch St Philadelphia 6 Pa	19
Furzehill Labs Ltd 57 Clarendon Rd Watford England	24	Mack Electronics Div Inc 1000 S 2 St Plainfield NJ	16	Rich Electronics Inc 212 NW 8 Ave Miami 36 Fla	1
Gardner Lab Inc PO Box 5728 Bethesda 14 Md	7	Madigan Corp 526 Mineola Ave Carle Place NY	12	Roy Co Milton 1300 E Mermaid La Phila Penna	7-12
General Controls Co 801 Allen Ave Glendale 1 Calif	23	Magnavox Corp 2131 Bueter Rd Ft Wayne 4 Ind	4	St Eloi Corp PO Box 507 Newtown Br Cincinnati 44 Ohio	12
General Electric Co Apparatus Sales Div 1 River Rd Schenectady 5 NY	7-15-16-19	Magnetic Amplifiers Inc 632 Tinton Ave New York 55 NY	23-28	Saratoga Industries Congress & Hallaton Aves Saratoga Springs NY	14
General Radio Co 275 Massachusetts Ave Cambridge 39 Mass	14-16-21-30-32	Marcconi Instruments Ltd 111 Cedarlane Englewood NJ	24	Schaffer Air Industries 290 N Henry St Brooklyn 22 NY	4
General Scientific Equipment Co 7816 Limestone Pike Phila 50 Pa	15	Menlo Research Lab 538 Phelan Ave San Jose Calif	26	Scientific-Atlanta Inc 2162 Piedmont Rd N Atlanta 9 Ga	1
Gerber Scientific Instrument Co 162 State St Hartford 3 Conn	14-30			Scott Inc H H 885 Putnam Ave Cambridge 39 Mass	2-21
G & M Equipment Co 7315 Varna Ave N Hollywood Calif	20-24			Servo Corp of America 2020 Jericho Turnpike New Hyde Park NY	23

Sierra Electronic Corp	
3885 Bohannon Dr Menlo Park Calif	3-32
Solartron Electronic Group Ltd	
Queens Rd Thames Ditton	
Surrey England	6-13-18-20-23-27
Southern Instruments Computer Div	
Frimley Rd Camberley	
Surrey England	12
Spectrum Instruments Inc	
44-05 30 Ave Long Island City 8 NY	24
Sperry Gyroscope Co	
Microwave Electronics Div	
Great Neck NY	14-20-22-24
Sprague Electric Co	
Marshall St North Adams Mass	4
Statistical Instr Co	
330 Haven Ave	
New York 33 NY	2-6-9-21-24-30-32
Stelma Inc	
190 Henry St Stamford Conn	8
Suffolk Products Corp	
Woodbine & Scudder Ave Northport NY	24
Suncoast Instruments Div Milton Roy Co	
6301 49th St St Petersburg Fla	7-12
Sun Electric Corp	
Harlem & Avondale Ave Chicago 31 Ill	13
Taller & Cooper	
75 Front St Brooklyn 1 NY	15
Tare Electronics Inc	
48 Urban Ave Westbury LI NY	31
Tatnall Measuring Systems Co	
Kimberton Rd Phoenixville Pa	25
Technical Oil Tool Corp	
1057 N La Brea	
Los Angeles 38 Calif	20-22-24
Technical Products Co Instrument Div	
6670 Lexington Ave Los Angeles 38 Calif	32
Telescope Mfg Corp	
28 Ranich Dr	
Amityville LI NY	6-7-9-31-32
Telectro Industries Corp	
35-18 37 St	1-2-4-5-13-14-19-20-
Long Island City 1 NY	21-22-23-28-31
Telerad Mfg Corp	
1440 Broadway New York 18 NY	14-20-22
Tel-Instrument Electronics Corp	
2728 Garden St Carlstadt NJ	30-31
Tracerlab Inc	
1601 Trapelo Rd Waltham 54 Mass	6-9
Transistor Electronics Co	
3357 Republic Ave Minneapolis 26 Minn	28
Transitron Inc	
186 Granite St Manchester NH	3
Triplett Electrical Instrument Co	
Harmon Rd Bluffton Ohio	6-28
Ultrasonic Eng'g Labs	
PO Box 3308 Albuquerque New Mex	27-28
United Mineral & Chemical Corp	
16 Hudson St New York 13 NY	4-32
Varian Associates	
611 Hansen Way Palo Alto Calif	12-24
Vero Mfg Co	
2201 Walnut St Garland Texas	14
Vectron Inc	
1611 Trapelo Rd Waltham 54 Mass	20-24
Victoreen Instrument Co	
5806 Hough Ave Cleveland 8 Ohio	9-24
Victory Eng'g Co	
121 Springfield Rd Union NJ	15
Virginia Electronics Co	
River Rd & B & O RR	
Washington 16 DC	2-5
Voron & Co George	
835 N 19 St Philadelphia 30 Pa	4
Wayne-Kerr Inst	
PO Box 801 Phila 5 Pa	32
Westberg Mfg Co	
144 S Coombs St Napa Calif	13
West Coast Research Corp	
2371 1/2 Westwood Blvd	
Los Angeles 64 Calif	10-23-25-27-28
Western Electro Acoustic Lab Inc	
11789 San Vicente Blvd	
Los Angeles 40 Calif	2-14-21
Westinghouse Electric Co Div Air Arm Div	
PO Box 746 Friendship Intl AP	
Baltimore Md	22
Weston Electrical Instrument Corp	
614 Frelinghuysen Ave	
Newark 12 NJ	5-14-31
Westrex Corp	
111 8 Ave New York 11 NY	17
Westronics Inc	
5605 McCart Ft Worth Texas	5
Wiancko Eng'g Co	
265 Halstead St Pasadena Calif	10
Winder Aircraft Corp of Fla	
P O Box 2397 Drane Fld Lakeland Fla	13
Winkler Labs	
5225 N 20 St Phoenix Ariz	30
Winston Electronics Inc	
4312 Main St Philadelphia 27 Pa	5

6—ANTENNAS, COMMERCIAL

Antennas, aircraft	1
Antennas, amateur	2
Antennas, broadcasting, AM	3
Antennas, broadcasting, FM & TV	4
Antennas, direction finding	5
Antennas, fixed station	6

Antennas, ground plane	7
Antennas, loop	8
Antennas, loop-core	9
Antennas, marine	10
Antennas, microwave	11
Antennas, mobile	12
Antennas, radar	13
Antennas, radiation test	14
Antennas, railroad	15
Antennas, receiving, FM & TV	16
Antennas, rotary beam	17
Antennas, slotted line	18
Antennas, telescopic	19
Antennas, UHF	20
Antennas, VHF	21
Radiators, FM & TV	22
Reflectors	23
Rotators	24
Towers & supports, Commercial	25

ACF Industries Nuclear Prode-Ereo Div	
48 Lafayette St Riverdale Md	11
Adler Electronics Inc	
Lafayette Labs	
New Rochelle NY	3-4-11-16-20-21
Admiral Corp	
3800 W Cortland St Chicago 47 Ill	13-14
Admittance Nanco Corp	
Marine St Farmingdale LI NY	11-20-21
Advance Electronics Co	
8510 North End Ave	
Oak Park 37 Mich	16-20-21
Aerial Tower Mfg Co	
Box 9142 Oklahoma City Okla	25
Aerocoil Inc	
24 Cliff St Jersey City 6 NJ	3-8
Aerolite Electronics Corp	
2207 Summit Ave Union City NJ	8-9
Aeronautical Electronics Inc	
P O Box 6527 Raleigh N Carolina	1-6-7-12
Aeronutronic Systems Inc	
1234 Airway Glendale	
Los Angeles Calif	18
Ainslie Corp	
312 Quincy Ave	
Quincy 69 Mass	10-11-13-21-23-24-25
Airborne Instruments Lab Inc	
160 Old County Rd	
Mineola NY	11-14-20-21-24-25
Aircorn Inc	
354 Main St Winthrop Mass	11-18
Aircorn Inc	
139 E 1st St Roselle NJ	11-13
Aircraft Radio Corp	
Bronxton NJ	1-8-12-20-21
Airtron Inc	
1108 W Elizabeth Ave Linden NJ	13
Alford Mfg Co	
299 Atlantic Ave	
Roston 10 Mass	4-11-20-21
All Channel Products Corp	
47-39 49 St Woodside 77 NY	10
Alpar Mfg Corp	
2910 Spring St	
Redwood City Calif	2-3-19-23-25
American Aluminum Co	
230 Sheffield St	
Mountainside Union NJ	23
American Brass Co	
414 Meadow St Waterbury 88 Conn	12
American Electronic Laboratories	
121 N 7 St	
Philadelphia 4 Pa	1-4-11-15-20-21
American Electronics Co	
1203 Bryant Ave New York 59 NY	2-4-16
Alproden Inc	
540 Weakley Ave Memphis Tenn	25
American Machine & Foundry Co	
Defense Products Group 1101 N Royal St	
Alexandria Va	5-6-7-11-13-14-17-18-19-22-24
American Machine & Foundry Co	
Gen Eng Labs 11 Bruce Pl	
Greenwich Conn	6-11-13-14
American Microwave Corp	
11754 Vose St N Hollywood Calif	11-25-25
American Printed Circuits Co	
104 Forrest St Metuchen NJ	1-13
American Tower Co	
RFD 3 Box 29 Shelby Ohio	25
Amphenol Electronics Corp	
1830 S 54 Ave Chicago 60 Ill	1-12
Amplitel Inc	
342 W 40 St New York 18 NY	16-20-21
Andrew Antenna Corp	
608 Beech St	3-4-6-7-11-12-
Whitby Ontario Can	15-19-20-21
Andrew California Corp	
941 E Maryland Ave	4-6-7-11-12-18-
Claremont Calif	18-20-21-23
Andrew Corp	
363 E 75 St	4-6-7-11-12-13-15-
Chicago 19 Ill	18-20-21-22-23
Antenna & Radome Research Assoc	
1 Bond St	1-3-4-5-6-7-8-10-11-12-
Westbury NY	13-14-20-21-23
Antenna Specialists Co	
12485 Euclid Ave	1-2-4-6-7-12-15-
Cleveland 6 Ohio	16-19-20-21

Antico Inc	
6350 Proprietors Rd Worthington Ohio 24-25	
Apparatus Development Co	
115 Main St Wethersfield 9 Conn	16-24
Applied Electronics Co	
213 E Grand Ave S San Francisco Calif 19	
A R F Products Inc	
P O Box 31 Rantou N M	21
Arrow Tool Co Inc	
35 Mill St Wethersfield Conn	1-13
Artel Co	
367 Worthington St Springfield 3 Mass	4
Avion Div ACF Industries Inc	
11 Park Pl Paramus NJ	11
Babeck Radio Eng'g Inc	
7942 Woodley Ave Van Nuys Calif	7
Barkley & Dexter Laboratories	
38 Frankfort St Fitchburg Mass	13-18
Bart Mfg Corp	
227 Main St Belleville NJ	11-23
Bell Aircraft Corp	
P O Box 1 Buffalo 5 NY	3-11-20-21
Bellaire Electronics Inc	
62 White St Red Bank NJ	11
Bendix Aviation Corp Bendix Radio Div	
Baltimore 4 Md	1-5-8-9-13-15-21
Bendix Aviation Corp	
1104 Fisher Bldg Detroit 2 Mich	1
Bergen Wire Rope Co	
466 Gregg St Lodi NJ	25
Birdair Structures Inc	
290 Larkin St Buffalo 10 NY	13
Blaine Electronics Inc	
1457 Koswick St	
Van Nuys Calif	1-5-7-11-13-14-23-25
Blaw-Knox Co Blaw-Knox Equip Div	
Pittsburgh 38 Penna	3-4-11-19-25
Bosart Mfg Corp	
315 Seigel St Brooklyn 6 NY	11-21
Brahm Mfg Corp Div General Bronze Corp	
200 Central Ave	
Newark 3 NJ	5-11-13-16-17-24
Brooks & Perkins Inc	
11855 Vanowen N Hollywood Calif	23
Brooks & Perkins Inc	
1850 W Fort St Detroit 38 Mich	13-23
Budd Stanley Co	
43-01 22 St	
Long Island City 1 NY	11-13-18
Budelman Radio Corp	
375 Fairfield Ave Stamford Conn	11-21
Buzette Inc H H	
P O Box 817 Toledo 1 Ohio	12
Calif Technical Industries Div Textron Inc	
1421 Old County Rd Belmont 10 Calif	11
Canoeza Corp	
5956 Sepulveda Blvd	
Van Nuys Calif	1-11-13-20-21
Channel Master Corp	
Ellenville NY	16-20-21
Chu Associates	
P O Box 347 Whitcomb Ave	
Littleton Mass	5-6-11-12-18-20-21
Coaxial Connector Co	
37 N 2 Ave Mt Vernon NY	1-8-11-13-20-21
Colcraft Inc	
Cary Ill	8-9
Coils Electronics Co	
2839 49 N 2nd St Phila 33 Penna	6-9
Collins Radio Co	
885 35 St	
N E Cedar Rapids Iowa	1-4-6-11-20-21
Columbia Products Co	
6625 Shakespeare Rd	
Columbia SC	1-2-6-7-10-12-15-20-21
Commercial Radio Sound Corp	
652 1 Ave New York 16 NY	3-16
Communication Equipment & Eng'g Co	
5646 W Race Ave Chicago 44 Ill	1
Communications Co	
300 Green Ave Coral Gables Fla	6-12-21
Conn Marine Instrument Co	
Essex Conn	19
Conrad & Moser	
2 Borden Ave	
Long Island City 1 NY	5-10-13
Consolidated Wire & Associated Cos	
1635 S Clinton St Chicago 16 Ill	2
Conover Steel Co Wire & Cable Div	
Glassport Pa	3-4-16
Corbin Corp	
5419 66th Place	
Riverdale Md	1-5-6-7-17-21
Craig Systems Inc	
90 Holten St Danvers Mass	1-21-25-24-25
Dale Products Inc	
P O Box 136 Columbus Nebr	1
Daimo Victor Div Textron Inc	
1515 Industrial Way Belmont Calif	5-11-23
Dayton Aviation Radio & Equipment Corp	
P O Box 258 Troy Ohio	1-5-8-13-20-21
Defiance Eng'g Microwave Corp	
Beverly Airport	1-5-6-7-10-11-
Beverly Mass	13-14-15-17-18
Demoray-Bonardi Corp	
790 S Arroyo Pkwy Pasadena Calif	11
Diamond Antenna & Microwave Corp	
7 North Ave	
Wakefield Mass	1-7-10-11-12-13-15-18-23
Dielectric Products Eng'g Co	
Raymond Me	4-6-7-11-12-15-20-21
Dittmore-Freimuth Corp	
2617 E Norwich St Milwaukee 7 Wisc	11
Dorne & Merrillin	
29 New York Ave	
Westbury NY	1-3-6-8-11-13-18-20-21

Douglas Microwave Co 252 E 3 St Mt Vernon NY	11	Interstate Electronics Corp 707 E Vermont Ave Anaheim Calif	20	Planet Service Corp 88-02 88-06 102 St Richmond Hill 18 NY	7-10
D & S Mfg Co 424 Burk Ave Kidley Park Pa	11-15-18-20-21	Isolantite Mfg Corp Warren Ave Stirling NJ	12	Polarad Electronics Corp 43-20 34 St Long Island City 1 NY	11
Dresser-Ideco Co 875 Michigan Ave Columbus 8 Ohio	23	Jamac Products Co 8845 N E Sandy Blvd Portland 20 Ore	1-4-6-7-15-16-25	Polytron Research Inc 7660 Woodbury Dr Silver Spring Md	11
Dwyer Eng'g Co Pine St ext Nashua NH	11	Jarvis Electronics Corp 1140 Cherry St Winnetka Ill	5	Premax Products Div Chisholm-Ryder Co College & Highland Aves Niagara Falls NY	1-2-6-7-10-12-19
Dynamic Electronics Inc 73-29 Woodhaven Blvd Forest Hills NY	1-2-5-11-12-13-20-21-22	Jefferson Inc Ray 40 E Merrick Rd Freeport NY	10	Premier Instrument Corp 52 W Houston St New York 12 NY	11
Dynatronic Inc 711 W Amelia Ave Orlando Fla	20-21	Johnson Co E F 206 Z Ave S W Waseca Minn	2-17-24	Prodelin Inc 307 Bergen Ave Kearny NJ	3-4-5-6-11-12-13-15-19-20-21-25
Eclipse-Producer Div Hendix Aviation Corp Teterboro NJ	13	Jones & Laughlin Steel Corp 3 Gateway Center Pittsburgh 30 Pa	16	Production Research Corp Thornwood NY	1-3-11-18-20-21
Ed-Berl Products Inc 87 Merrick Rd Baldwin NY	10	J-V-M Eng'g Co 1683 S Lawndale Ave Lyons Ill	1-11-13-18-20-27	Pye Canada Ltd 82 Northline Rd Toronto 16 Ontario Canada	25
Electrend Products Corp Box 110 St Joseph Mich	3-12	Kearfott Co Inc 14844 Onard St Van Nuys Calif	1-11-13-14-18	Pye Telecommunications Ltd Newmarket Rd Cambridge England	5-6-8-10-11-12-15-19-21
Electrola Inc 7517 N Clark St Chicago 26 Ill	15	Kearfott Co Inc 1378 Main Ave Clifton NJ	10-11	Q-Line Mfg Corp 1582 61 St Brooklyn 19 NY	1-2-8-9-10-11-12-13-16-19-20-21-23
Electro-Mechanical Div General Riveter Inc 785 Hertel Ave Buffalo 7 NY	24	Keley-Hayes Co 3600 Military Ave Detroit 32 Mich	11-13	Radiation Eng'g Labs Main St Maynard Mass	1-10-11-13-20-21
Electronic Specialty Co 5121 San Fernando Rd Los Angeles 39 Calif	1-11-13-20-21	Kennedy & Co D S 155 Kinz St Cohasset Mass	11-12-13-20-21	Radiation Inc P O Box 37 Melbourne Fla	1-11-13-14-17-20-21
Electron-Radar Products 4065 W Chicago Ave Chicago 51 Ill	11-13	Kings Electronics Co Inc 40 Maroleleda Rd Tuckahoe NY	1-7-11-13-16-18-19-20-21-23	Radio Activities Inc 119 Dawson Ave Bounton NJ	1-2-3-4-5-6-7-10-11-12-13-14-15-16-18-19-20-21
El-Rad Mfg Co 2900 W Cullom Ave Chicago 18 Ill	3-9	Kline Iron & Steel Co P O Box 1018-1225-35 Huger St Columbia SC	25	Radio City Products Co Centre & Glendale Sta Easton Pa	5-24
Emerson & Cuming Inc 869 Washington St Canton 1 Mass	23	Kusa Industries Inc Tacony & Lewis Sta Philadelphia 24 Pa	12-19-23	Radio Corp of America Commercial Electronic Products Front & Cooper Sts Camden NJ	3-4-11-20-21-23-24-25
Emerson-Sack-Warner Corp 75 Washington St Somerville 41 Mass	25	K-W Eng'g Works 15920 Pin Oak Ct Butler Wisc	2-12	Radiom Merchandise Sales Inc 2016 Bronxville Ave Bronx 62 NY	16-20-21-24
Endeco Eng'g Development Co of Los Angeles 148-50 Wilmington Blvd Wilmington Calif	10	Lambda-Pacific Eng'g Inc 14725 Armita St Van Nuys Calif	11	Ramo-Woolridge Corp Electronic Instrumentation Div P O Box 8405 Denver 10 Colo	11-13-18
Erco Radio Labs Inc 442 Stewart Ave Garden City NY	5-20-21	Lance Antenna Mfg Co 1730-1802 1st St San Fernando Calif	13-16-20-21	Raytheon Mfg Co 100 River St Waltham 54 Mass	10-11-13
E-Z Way Towers Inc 5901 E Broadway Tampa 5 Fla	2-3-4-14-25	La Pointe Industries Inc 155 W Main St Rockville Conn	1-2-5-8-7-8-9-10-11-12-13-15-16-17-18-19-20-21-22-23-24	Reagan Mfg Co Commercial Equip Div 100 River St Waltham 54 Mass	10-11-13
Farnsworth Electronics Co Div I T & T 3702 E Pontiac St Ft Wayne Ind	1-11-13	Leaf Inc 3121 S Bundy Dr Santa Monica Calif	1-5-8-12-20-21	Reeves Instrument Corp Roosevelt Field Garden City NY	13-24
Federal Inc J W 6922 Hamilton Ave Pittsburgh 6 Pa	13	Leitch Eng'g Corp 326 Lincoln St Manchester NH	13-20-21	Regency Div IDEA Inc 7900 Pendleton Pike Indianapolis Ind	21
Federal Telecommunication Labs Div I T & T 309 Washington Ave Nutley NJ	1-5-11-20-21	Lico Inc 3610 Oceanside Rd Oceanside NY	11	Republic Aviation Corp Farmingdale LI NY	1
Finney Co 34 W Interstate St Bedford Ohio	2-16-20-21	Lorentzen Inc H K 391 W Broadway New York 12 NY	25	Rich Electronics Inc 212 N W 3 Ave Miami 36 Fla	4-10-16-21-24
Frederick Tool & Eng'g Corp 414 Pine Ave Frederick Md	2	Madinax Corp 526 Minola Ave Carle Place NY	1-6-7-10-12-15-20-21-23-25	Risco 265 Minna St San Francisco 3 Calif	3
Fretco Inc 406 N Craig St Pittsburgh 13 Pa	2-7-20-21-23	Magnavox Co 2131 Bueter Rd Ft Wayne Ind	1-5-7-8-13	Roflan Co Topsfield Mass	1-9-13-18-20-21
Fuzie-Miller Labs Inc 301 Central Ave Clark NJ	9	Mark Products Co 6412 W Lincoln Ave Morton Grove Ill	1-2-6-7-10-11-12-13-14-15-20-21-23	Ronan Corp 5660 39 St Maspeth 78 NY	25
Gabriel Electronics Div Gabriel Co 135 Crescent Rd Needham Heights 94 Mass	19-20-21-23-24	Martin Co G E 6100 S Oak Park Ave Chicago 38 Ill	11-23-25	Royal Communication Systems 11462 Euclid Ave Cleveland 6 Ohio	12
Gates Radio Co 123 Hampshire St Quincy Ill	4	Maxxon Corp W L 475 10 Ave New York 18 NY	11-13-18	Scala Radio Co 2814 19 St San Francisco 10 Calif	6-7-10-15-16-20-21-23
Gavitt Wire & Cable Co Central St Brookfield Mass	8-9	Measurement Eng'g Ltd 232 John St Arnprior Ontario Can	8-1	Scientific-Atlanta Inc 2162 Piedmont Rd N E Atlanta 9 Ga	11-13-14-24
General Bronze Corp 711 Stewart Ave 1-3-5-8-9-10-11-12-13-14-16-17-18-19-20-21-23-24-25	17-18-19-20-21-23-24-25	Meridian Metalcraft Inc 8739 S Millergrove Dr Whittier Calif	11-13	Seismograph Service Corp 6200 E 41 St Tulsa 1 Okla	5-25
General Cement Mfg Co Div Texttron Inc 400 Wyman St Rockford Ill	9-16-19	Metal Fabricators Corp 63 Pond St Waltham 54 Mass	5-11-13-23-24-25	Spaulding Products Co 550 W Barber St Frankfort Ind	25
General Electric/Missile & Ordnance Systems Dept 3198 Chestnut St Phila 4 Pa	13	Microtech Inc 2975 State St Hamden 1 Conn	11	Specific Products Co 21051 Costanzo Woodland Hills Calif	6
General Mills Inc Mechanical Div 1620 Central Ave Minneapolis 13 Minn	13	Microwave Associates Inc Burlington Mass	11	Sperry Gyroscope Co Air Arm Div Great Neck NY	13
General RF Fittings Inc 702 Beacon St Boston 15 Mass	5-11	Miller Electronics 2840 Naomi St Burbank Calif	16	Sperry Gyroscope Co Microwave Electronics Div Great Neck NY	1-10-11-13-14-23-24
Goodyear Aircraft Corp 1210 Massillon Rd Akron 15 Ohio	1-6-11	Moseley Co F L 409 N Fair Oaks Ave Pasadena Calif	2-12-17	Sperry Gyroscope Co Marine Div Roosevelt Field Mineola NY	10-13
Granger Associates 966 Commercial St Palo Alto Calif	1-5-6-11-13-20-21-23	Narda Microwave Corp 118-160 Herricks Rd Mineola NY	11-20-23	Spincraft Inc 4122 W State St Milwaukee 8 Wisc	11
Gulton Industries Inc 212 Durham Ave 1-5-6-7-8-11-12-13-14-15-16-17-18-20-21-23-24-25	17-18-20-21-23-24-25	National Moldite Co 250 South St Newark NJ	9	Spinform Inc 65 Mechanic St Attleboro Mass	1-11-13-23
Haller Raymond & Brown Circleville Rd State College Pa	1-11-13-14-18-20-21	Nichols Products Co 325 W Main St Moorestown NJ	1-11-13	Spivey Inc James S 4908 Hampden Lane Washington 14 DC	1-7-21
Hazeltine Electronics Div Hazeltine Corp 59-25 Little Neck Pkwy Little Neck 62 NY	1-6-7-11-12-13-14-20-21-23	N R K Mfg & Eng'g Co 4601 W Addison St Chicago 41 Ill	11-13	Stainless Inc 3 St North Wales Pa	3-4-5-4-13-14-16-19-23-25
Hi-Lo TV Antenna Co 1422 W Newport Ave Chicago 13 Ill	16	Nuclear Products-Erco Div ACF Industries Inc Riverdale Md	11-13-25	Stavid Eng'g Inc U B Route 22 Plainfield NJ	1-11-13-20-21
Hoffman Electronics Corp 3781 S Hill St Los Angeles 7 Calif	6-10-13	Palmer Inc M V 4002 Fruit Valley Rd Vancouver Wash	6	Steward Mfg Co D M Chattanooga Tenn	9
Hoover Electronics Co 112 W Timonium Rd Timonium Md	11	Parker Metal Goods Co 85 Prescott St Worcester 3 Mass	8-16-19-20-21-25	Suffolk Products Corp Woodbine & Scudder Ave Northport NY	13-24
Houston Fearless Div Color Corp of America 11801 W Olympic Blvd Los Angeles 84 Calif	13-24	Park Products Co 6900 Wade Park Ave Cleveland 3 Ohio	9	Suprex Electronics Corp 58 Marbledale Rd Tuckahoe NY	8-9
Hudson American 25-01 Borden Ave Long Island City NY	10	Pearce Simpson Inc 3023 Coral Way Miami 34 Fla	10	Swedlow Plastics Co 6986 Bandini Blvd Los Angeles 22 Calif	11
Hy-Gain Antenna Products Co 1135 N 22 St Lincoln Nebr	2-7-17-24	Peerless Products Industries 812 N Pulaski Rd Chicago 51 Ill	16-19	Swift Textile Metallizing and Laminating Corp 10 Love Lane Harford 1 Conn	13-23
I D E A Inc 7900 Pendleton Pk Indianapolis 26 Ind	12	Petrol Corp Peter A 127 Water St New York 5 NY	1-5-19	Sylvania Electric Products Co Electric Systems Div 100 First Ave Waltham 54 Mass	5-11-13-18-20-21
Illumitronic Eng'g Co 640 E Taylor Ave Sunnyvale Calif	2-10-12	Phanatron Instrument & Electronic Co 151 Pasadena Ave S Pasadena Calif	1		
Industrial Development Eng'g Assoc 7900 Pendleton Pk Indianapolis Ind	12-21	Philmore Mfg Co 113 University Pl New York 3 NY	3		
Industrial Radio Corp 428 N Parkside Ave Chicago 44 Ill	21	Philson Mfg Co 60 Sackett St Brooklyn 81 NY	10		
Insuline Corp of America 186 Granite St Manchester NH	12-16-19-20-21-23				

Ta-Mar Inc
1151 W Jefferson Blvd
Culver City Calif 1-11-20-21

Tarzian Inc Sarkes
415 N College Ave Bloomington Ind 11-12

Technical Appliance Corp
1 Taco St 1-2-5-6-7-10-11-12-13-
Sherburne NY 15-16-17-20-21-23

Technical Material Corp
700 Fenimore Rd Mamaroneck NY 2-6

Technical Oil Tool Corp
1057 N La Brea Los Angeles 38 Calif 11

Technicraft Labs Inc
Thomaston-Waterbury Rd
Thomaston Conn 11

Telectro Industries Corp
35-18 37 St Long Island City 1 NY 7-11-13

Telerad Mfg Corp
Route 69 Flemington NJ 11-13

Telerad Mfg Corp
1440 Broadway New York 18 NY 11-13

Teletenna Co
P O Box 7 Lapaz Ind 2-6-7

Tele-Vue Towers Inc
701 49 St St Petersburg Fla 25

Telkor Inc
N Murray Ridge Rd Elyria Ohio 4

Telrex Labs
Asbury Park NJ 2-3-5-16-17-20-21-22-23-24-25

Temco Aircraft Corp
P O Box 6191 Dallas 2 Texas 11-20-21

Tennalab
417 S 10 St Quincy Ill 2-16-17-20-21-22

Tenna Mfg Co
7580 Garfield Blvd Cleveland 25 Ohio 2-12

Texas Instruments Inc
5000 Lemmon Ave Dallas 9 Texas 13

Thomas Mold & Die Co
249 W Henry St Wooster Ohio 23

Torngren Co C W
236 Pearl St Somerville 45 Mass 23

Tower Construction Co
2700 Hawkeye Dr Sioux City 2 Iowa 11-25

Tranco Products Inc
12210 Nebraska Ave
Los Angeles 26 Calif 1-11-20-21

Tricraft Products Corp
1124 W Newport Ave
Chicago 22 Ill 16-20-21-25

Tri-Ex Tower Corp
127 E Inyo St Tulare Calif 12-25

Trilch Inc John D
P O Box 14201 Houston 21 Texas 25

Truscon Steel Div Republic Steel Corp
Youngstown 1 Ohio 25

TV Hardware Mfg Co Div Tectron Inc
400 S Wyman St Rockford Ill 16

Universal Products Eng'g Co
4100 Taylor Ave Racine Wis 2

Uniwave Inc
109 Marine St Farmingdale NY 11

U S Testing Co
1415 Park Ave Hoboken NJ 7

Valandy Electronics Corp
61-35 156 St Flushing 68 NY 9

Vesto Co
20 & Clay Sts N Kansas City 16 Mo 25

Victor RF & Microwave Co
36 W Water St Wakefield Mass 11

Vidaire Electronics Mfg Corp
44 Church St Baldwin NJ 9

Video Industries Co
242 Madison Ave Port Chester NY 16

Virginia Electronics Co
River Rd B & O R R
Washington 15 DC 12-19

Walworth Co
750 3rd Ave New York 17 NY 10-23

Ward Products Corp
1148 Euclid Ave Cleveland 15 Ohio 2-6-7-12

Waveguide Inc
14837 Oxnard St
Van Nuys Calif 1-11-13-17-18

Waveline Inc
P O Box 718 Caldwell NJ 11

Webster Mfg Co
242 Shoreline Blvd
Mill Valley Calif 1-2-6-10-12-20

Westbury Electronics Inc
300 Shames Dr Westbury NY 11-13

Western Coil Products Co
869 Commercial St Palo Alto Calif 9

Western felt Works
4029 Ordan Ave Chicago Ill 10

Western Gear Corp Electric Products Div
132 W Colorado St Pasadena 1 Calif 2-7-24

Westinghouse Electric Co Div Air Arm Div
P O Box 746 Friendship Intl A P
Baltimore Md 13

White & San James I
374 Verona Ave Newark 4 NJ 2-6-10-12-20

Winder Aircraft Corp of Fla
P O Box 2397 Drane Fld Lakeland Fla 1-23

Wind Turbine Co
E Market St & PRR
West Chester Pa 2-3-17-24-25

Winegard Co
5000 Scotten Blvd Burlington Iowa 16-20-21

Young Spring & Wire Co Ganset Div
801 S Main St
Burbank Calif 2-6-7-12-16-17-19-20-21

Zenith Plastics Co
1600 W 185 St Gardena Calif 11-13-23

Z & W Mfg Corp
30240 Lakeland Blvd Wickliffe Ohio 1-7

7—ANTENNAS, HOME

Antennas, amateur 1
Antennas, auto radio 2
Antennas, home all-wave 3
Antennas, indoor FM & TV 4
Antennas, loop 5
Antennas, loop-core 6
Antennas, master community 7
Antennas, outdoor FM & TV 8
Antennas, telescopic 9
Antennas, UHF 10
Antennas, VHF 11
Rotators 12
Towers & supports, home 13

Aerocoil Inc
24 Cliff St Jersey City 6 NJ 4-5-6

Aflun Industries
406 St Louis Ave Valley Park Mo 3-4-8-10-11

All Channel Products Corp
47-39 49 St Woodside 77 NY 3-4-9-10-11

Alliance Mfg Co
Lake Park Blvd Alliance Ohio 12

Alpar Mfg Corp
2910 Sprink St Redwood City Calif 13

Alprodeo Inc
540 Weakley Ave Memphis Tenn 18

American Brass Co
414 Meadow St Waterbury 88 Conn 2

American Electric Corp
1203 Bryant Ave New York 59 NY 1-4

American Machine & Foundry Co
Defense Products Group
1101 N Royal St Alexandria Va 12

American Tower Co
RFD 2 Box 29 Shelby Ohio 13

Amphenol Electronics Corp
1830 S 54 Ave Chicago 59 Ill 1-4-8-10-11

Antenna Specialists Co
12435 Euclid Ave
Cleveland 6 Ohio 1-2-4-9-10-11

Apparatus Development Co
115 Main St Wethersfield 9 Conn 8-12

A R F Products Inc
P O Box 57 Raton NM 5

Argonne Electronics Mfg Corp
165-11 South Rd Jamaica 33 NY 6

Rassett Inc Rex
1314 N E 17 Ct Ft Lauderdale Fla 1-2-5

Bergen Wire Rope Co
456 Griggs St Lodi NJ 13

Birnbach Radio Co
145 Hudson St New York 13 NY 3

Brach Mfg Corp Div General Bronze Corp
200 Central Ave
Newark 3 NJ 2-3-4-8-9-10-11-12

Caddell-Burna Mfg Co
40 E 2 St Mineola NY 5-6

Calbest Electronics Corp
4801 Exposition Blvd
Los Angeles 16 Calif 5-6

C B C Electronics Co
2601 N Howard St Philadelphia 33 Pa 4

Channel Master Corp
Ellenville NY 4-7-8-9-10-11-13

Clear Beam Antennas Corp
21341 Roscoe Blvd
Cynoka Park Calif 4-8-10-11

Columbia Products Co
6625 Shakesneare Rd Columbia SC 1-2-10-11

Consolidated Wire & Associated Cos
1635 S Clinton St Chicago 16 Ill 1

Cornell-Dubilier Electric Corp
239 Hamilton Blvd
S Plainfield NJ 2-3-4-8-9-10-11-12

Crown Controls Co Inc
40-44 S Washington New Bremen Ohio 12

Dresser-Ideco Co
875 Michigan Ave Columbus 8 Ohio 13

Dynamic Electronics Inc
73-29 Woodhaven Blvd Forest Hills NY 4-5-6

Electrend Products Corp
Box 110 St Joseph Mich 2

El-Rad Mfg Co
2800 W Cullom Ave Chicago 18 Ill 5-6

Emerson-Sack-Warner Corp
85 Washington St Somerville 43 Mass 13

E-Z Way Towers Inc
5901 E Broadway Tamna 5 Fla 1-12-13

Feeroxube Corp of America
35 E Bridge St Saugerties NY 6

Finney Co
34 W Interstate St
Bedford Ohio 1-3-4-7-8-10-11

Fretco Inc
406 N Craig St
Pittsburgh 13 Pa 1-3-4-8-9-10-11

G-C Electronics Div General Cement-Tectron
400 S Wyman St Rockford Ill 2

Geo-Lar Mfg Co
418 S Wyman St Rockford Ill 2-3

General Bronze Corp
7-1 Stewart Ave
Garden City NY 2-3-4-5-6-7-8-
9-10-11-12-13

General Cement Mfg Co Div Tectron Inc
400 Wyman St Rockford Ill 2-3-4-6-10-11

General Crystal Co
P O Box 9 Burlington Wis 1-3

Hansen Co Wm
150 Silverbrook Ave Niles Mich 10

Hi-Lo TV Antenna Corp
1122 W Newport Ave Chicago 13 Ill 4-8

Hi-Gain Antenna Products Co
1135 N 22 St Lincoln Nebr 1-12

IE Mfg
325 N Hoyne Ave Chicago 12 Ill 4-5-10-11-13

Ilumitronic Eng'g Co
650 E Taylor Ave Sunnyvale Calif 1

Insluline Corp of America
186 Granite St Manchester NH 2-4-8-9-10-11

Jerrold Electronics Corp
23 & Chestnut Sts Philadelphia 3 Pa 7

JFD Electronic Corp
6101 16 Ave Brooklyn 4 NY 2-4-8-9-10-11

Johnson Co EP
206 2 Ave S W Waseca Minn 1

Jones & Laughlin Steel Corp
3 Gateway Center Pittsburgh 30 Pa 8

Kay-Townes Antenna Co
Box 593 Rome Ga 8-10-11

Kenwood Eng'g Co
265 Colfax Ave Kenilworth NJ 13

Kinus Electronics Co Inc
40 Marlbedale Rd Tuckahoe NY 9

Lance Antenna Mfg Co
1730-1802 1st St
San Fernando Calif 1-2-3-4-7-8-10-11

La Pointe Industries Inc
155 W Main St
Rockville Conn 1-3-4-5-6-8-9-10-11-12

Macon Electronics
Box 56 Warrensburg Ill 8-10-11-13

Mark Products Co
6412 W Lincoln Ave Morton Grove Ill 1-10-11

Medat Mfg Co
P O Box 292 Sharon Pa 8-10-11

Miller Co J W
5917 S Main St Los Angeles 3 Calif 2-6

Miller Electronics
2840 Naomi St Burbank Calif 2-4-8-10-11

Morse Instrument Co
20 Clinton St Hudson NY 11

Mosley Co F L
409 N Fair Oaks Ave Pasadena Calif 7

NARDA Microwave Corp
118-100 Herricks Rd Mineola NY 10

National Moldite Co
250 South St Newark NJ 8

Parker Metal Goods Co
85 Prescott St Worcester 5 Mass 4-8-10-13

Park Products Co
6900 Wade Park Ave
Cleveland 3 Ohio 5-6

Peerless Products Industries
812 N Pulaski Rd Chicago 51 Ill 4

Philes Corp Accessory Div
"A" & Allegheny Ave
Philadelphia 34 Pa 2-4-8-11-12

Philson Mfg Co
60 Sackett St Brooklyn 31 NY 1-2-3-8-9

Premox Products Div Chisholm-Ryder Co
College & Highland Aves
Niagara Falls NY 1-3-9

Psy Telecommunications Ltd
Newmarket Rd Cambridge England 3

Q I C Corp
409 Main St Greenport NY 5-6

Q-Line Mfg Corp
1562 61 St
Brooklyn 19 NY 1-3-4-5-6-8-9-10-11

Radiart Corp
3155 Vega Ave
Cleveland 13 Ohio 2-8-10-11-12

Radio Activities Inc
118 Dawson Ave
Roseton NJ 1-2-3-4-8-9-10-11

Radio Merchandise Sales Inc
2016 Bronxdale Ave
Bronx 62 NY 4-8-10-11-12-13

Radioron
1130 W Wisconsin Ave Chicago 14 Ill 4-10-11

Radio TV Products Corp
308 N Lake St Grass Lake Mich 2-6

Ramsay Radio & TV Co
925 St Louis Ave Vandalia Ill 18

Rego Insulated Wire Co
830 Monroe St Hoboken NJ 2-4

Rohn Mfg Co
116 Limestone Bellevue Peoria 5 Ill 13

Rollan Electric Co
8233 S Princeton Ave Chicago 20 Ill 5-6

Rostan Corp
5660 59 St Masopeth 78 NY 13

S & A Electronics
1025 Nevada St Toledo 5 Ohio 8-10-11

Saxon Products Inc
1661 Boone Ave New York 60 NY 5-6

Scala Radio Co
2814 19 St San Francisco 10 Calif 7-8-10-11

Snyder Mfg Co
22 & Ontario Sts
Philadelphia 40 Pa 2-4-8-9-10-11

Spaulding Products Co
550 W Barner St Frankfort Ind 13

Springs Products Co
Henrietta St & Duffy Ave
Hicksville LI NY 2-4-10-11

Springfield Enterprises
138-17 Springfield Blvd
Springfield Gardens 13 NY 1

Stainless Inc
3 St North Wales Pa 13

Standard Winding Co
44 Johns St Newburgh NY 5-6

Superec Electronics Corp
68 Marlbedale Rd Tuckahoe NY 5-6

Tahet Mfg Co
1336 Ballentine Blvd Norfolk 12 Va 13

Technical Appliance Corp
1 Taco St Sherburne NY 1-4-8-10-11

Teletenna Co
P O Box 7 Lapaz Ind 1-8-10-11

Tele-Vue Towers Inc	
701 49 St St Petersburg Fla	13
Telkor Inc	
Box 186 Elyria Ohio	4-8-10-11
Tel-Rad Electronics Corp	
127-20 Rockaway Blvd S Ozone Park 20 LI NY	6
Telrex Labs	
Asbury Park NJ	1-4-8-10-11-12
Tennalab	
417 S 10 St Quincy Ill	1-7-8-10-11
Tenna Mfg Co	
7580 Garfield Blvd Cleveland 25 Ohio	2-4-8-10-11
Teveo Insulated Wire	
108 E Prospect Ave Burbank Calif	2
Tower Construction Co	
2700 Hawkeye Dr Sioux City 2 Iowa	15
Towers Corp	
P O Box 345 Cleveland 27 Ohio	8-13
Trieraft Products Corp	
1124 W Newport Ave Chicago 22 Ill	4-8-10-11-13
Trio Mfg Co	
Crispville Ill	8-10-11
TV Hardware Mfg Co Div Textron Inc	
430 S Wyman St Rockford Ill	2-10-11
Universal Products Eng'g Co	
4100 Taylor Ave Racine Wis	1-13
Van Norman Industries Inc Electronics Div	
156 Granite St Manchester NH	8
Vidair Electronics Mfg Corp	
41 Church St Baldwin NJ	6
Video Accessory Mfg Co	
P O Box 223 Tulsa 1 Okla	13
Video Industries Co	
242 Madison Ave Port Chester NY	1-8
Vokar Corp	
7300 Hudson River Dr Dexter Mich	8
Vox Mfg Co	
2151 N Halsted St Chicago 14 Ill	5-6
Walaco Electronics Mfg Co	
100 W Green St Rockford Ill	5-8-10-11
Ward Products Corp	
1148 Euclid Ave Cleveland 15 Ohio	1-2-4
Welco Mfg Co	
223 S E Burlington Iowa	3-8-10-11
Western Coil & Electrical Co	
215 State St Racine Wis	1
Western Coil Products Co	
969 Commercial St Palo Alto Calif	6
Western Gear Corp Electro Products Div	
132 W Colorado St Pasadena 1 Calif	1
Whitewater Electronics Inc	
136 Main St Whitewater Wis	5-6
Wind Turbine Co	
E Market St & PRRW West Chester Pa	1-12-13
Young Spring & Wire Co Gannett Div	
801 S Main St Burbank Calif	1-8-10-11

Alford Mfg Co	
290 Atlantic Ave Boston 10 Mass	5
Alimetal Screw Products Co	
821 Stewart Ave Garden City NY	9
American Brass Co	
414 Meadow St Waterbury 88 Conn	9
American Communications Corp	
280 Broadway New York 1, NY	1-2
American Electronics Co	
1203 Bryant Ave New York 59 NY	2-4-21
Alprodeo Inc	
540 Weakley Ave Memphis Tenn	9-17-29
American Lava Corp Saus stann stining & Mfg	
Cherokee Blvd & Mtns rd Chattanooga 2 Tenn	12-24
American machine & Foundry Co	
Defense Products Group 1101 N Royal St Alexandria Va	9-11-15
American Sweet Co	
RFI 2 Box 29 Shelby Ohio	17
Aspened Electronics Corp	
1809 S 54 Ave Chicago 20 Ill	14-21
Anchor Products Co	
2712 W Abingdon Ave Chicago 18 Ill	4-21-25
Andrew Antenna Corp	
505 Beach 28	
Whitby Ontario Can 1-3-7-8-9-10-17-20-27-25	
Andrew California Corp	
541 E Maryland Ave Carleton Labl	4-5-8-9-10-20-26-28
Andrew Corp	
504 E 15 St Chicago 19 Ill	1-5-8-9-10-17-20-26-27-28
Antenna & Radiome Research Assoc	
1 Bond St Westbury NY	2-4-5-6-7-8-15-18-19
Antenna Spec. Institute Co	
1250 Euclid Ave Cleveland 6 Ohio	1-2-17
Antennation Inc	
2942 W Ontario Phoenix Ariz	2-5-21-22
Antlab Inc	
5320 Proprietors Rd Worthington Ohio	11-20-25
Apparatus Development Co	
115 Main St Wethersfield 2 Conn	9
A R F Products Inc	
P O Box 51 Ranton NM	8-23
A R & T Electronics Inc	
1501 E 6th St N Little Rock Ark	21
Automatic Metal Products Corp	
323 Berry St Brooklyn 11 NY	18
Automatic Methods Inc	
965 W Grand St Elizabeth NJ	5
Bach & Co Simon	
635 Greenwich St New York 14 NY	15
Barker & Williamson Inc	
Canal & Beaver Sts Bristol Pa	1-2-6-12-16-19-25
Birbaach Radio Co	
145 Hudson St New York 15 NY	12
Blaeo Mfg Co	
541 Euclid Ave Cleveland 9 Ohio	3
Blaine Electronics Inc	
14757 Kewick St Van Nuys Calif	2-8
Blender-Tongue Laboratories	
9-25 Alling St Newark 2 NJ	2-4-5-21-23
Bocart Mfg Corp	
315 Seigel St Brooklyn 6 NY	1-6-7-26
Bolton Labs Inc	
W Main St Bolton Mass	2-5-6
Boston Insulated Wire & Cable Co	
65 Bay St Dorchester Mass	27
Brach Mfg Corp Div General Bronze Corp	
700 Central Ave Newark 3 NJ	6-14-21
British Electronic Sales	
Oakland Gardens Flushing 64 NY	6-14
Brooks & Perkins	
1950 W Ford St Detroit Mich	815
Budd Stanley Co	
43-61 22 St Long Island City 1 NY	5-7-8
Buss-Clement-Doughten & Associates	
201 B Studio Hill Chester Springs Pa	18
Calif Technol Industries Div Textron Inc	
1421 Old County Rd Belmont 10 Calif	23
Canadian Aviation Electronics Ltd	
6214 Cote de Liesse Rd St Laurent Quebec Canada	2-23
Carborundum Co Global Div	
Hyde Park Blvd Niagara Falls NY	12
Ceramtronics Inc	
384 Highland Ave Passaic NJ	12
CGS Laboratories Inc	
Routes 7 & 35 Ridgefield Conn	21-26
Channel Master Corp	
Ellenville NY	3-4-9-12-14-17-20-21
Chicago Rivet & Machine Co	
950 S 25 Ave Hillwood Ill	9
Chu Associates	
P O Box 387 Whitecomb Ave Littleton Mass	1-2-8
Clear Beam Antenna Corp	
21341 Roseoe Blvd Canota Park Calif	17
Clegg Labs Div Clegg Inc	
Ridgedale Ave Morristown NJ	1-7
Coils Electronics Co	
2939 49 N 2nd St Phila 33 Penna	2
Collins Radio Co	
855 35 St N E Cedar Rapids Iowa	2-5-6-7-18-19-25-28
Community Eng'g Corp	
Box 824 State College Pa	2-21-22
Conn Telephone & Electric Corp	
70 Britannia St Meriden Conn	9
Conrad & Moser	
2 Borden Ave Long Island City 1 NY	20

Consolidated Productions Inc	
Broward Int'l Airport Ft Lauderdale Fla	1
Consolidated Wire & Associated Cos	
1635 S Clinton St Chicago 16 Ill	3-12-14
Continental Electronics Ltd	
3-2 Oceanus St Brooklyn 22 NY	26
Copperweld Steel Co Wire & Cable Div	
Gannett Pa	14
Cornell-Bushner Electric Corp	
503 Hammond Blvd S Plainfield NJ	14
Craig Systems Co	
20 Boston St Danvers Mass	17
Crown Controls Co Inc	
40-41 S Washington New Bremen Ohio	21
Cunningham son & Co James	
33 Litchfield St Rochester 8 NY	18-23-26
Custom Components Inc	
P O Box 225 Laidwell NJ	6
Dane Products Inc	
P O Box 126 Columbus Neb	14
Dallons Lams	
2008 Santa Monica Blvd Los Angeles 29 Calif	2
Daimon Victor Co Div Textron Inc	
1410 Industrial Way Belmont Calif	23
Danco Electric Mfg Co	
Lawton Conn	3
Danone Eng'g & Microwave Corp	
Beverly Airport Beverly Mass	5-6-7-8
Democny-Bonardi Corp	
30 S Arroyo Pkwy Pasadena Calif	6
Detroit Controls Corp Norwood Controls Unit	
934 Washington St Norwood Mass	18
Diamond Antenna & Microwave Corp	
7 North Ave Woburn Mass 1-2-4-5-6-7-8-15	
Diamond Products Mfg Co	
1232 Cleveland Ave N W Canton Ohio	12
Dielectric Products Eng'g Co	
Raymond Me	2-5-7-8
Littmore-Fremuth Corp	
241 E Norwich St Milwaukee 7 Wis	1-6-12
Dresser Mfg Corp	
213 Huron St Brooklyn 82 NY	3
Dun-Koy Co Inc	
Rt 3 Hwy 59 Thief River Falls Minn	26
Dresser-Ideco Co	
875 Madison Ave Columbus 8 Ohio	17-20
D & R Ltd	
402 E Galtierres St Santa Barbara Calif	5
D & S Mfg Co	
424 Burk Ave Ridley Park Pa	7-9-17
DuCo Ceramics Co	
Box 275 Saco Pa	12
Dynamic Electronics Inc	
73-29 Woodhaven Blvd Forest Hills NY	1-2-26
Dynatronix Inc	
717 W Amelia Ave Orlando Fla	5-19-21
Ely Sales Co	
180 Lafayette St New York 13 NY	13-21
Eldico Electronics	
25-01 Barden Ave Long Island City 1 NY	28
Electrofilm Inc	
7116 Laurel Canyon Blvd N Hollywood Calif	10
Electro-Flex Heat Inc	
83 Woodbine St Hartford 6 Conn	10
Electro Impulse Lab Inc	
208 River St Red Bank NJ	6-19
Electro Inc	
7517 N Clark St Chicago 26 Ill	23
Electronode Div Commercial Controls Corp	
45 Crouch St Rochester 3 NY	10
Electronics Intl Co Inc	
20 N Lee St Oklahoma City 2 Okla	2-26
Electronic Specialty Co	
5121 San Fernando Rd Los Angeles 39 Calif	1-2-4-5-7-8-13-17-21
Elektra-Serv Co	
480 Johnson Ave Brooklyn 37 NY	6
El-Rad Mfg Co	
2500 W Cullom Ave Chicago 18 Ill	2
Emerson & Cuming Inc	
869 Washington St Canton 1 Mass	15
Emerson Plastics Corp	
Seabury Ave & Butler Pl Bronx 61 NY	11-12
Emerson-Sack-Warner Corp	
85 Washington St Somerville 43 Mass	11-17-20
Enflo Corp	
Fellowship Rd Route 73 Maple Shade NJ	12
Engineering Associates	
434 Patterson Rd Dayton 9 Ohio	28
Entron Inc	
4902 Lawrence St Bladensburg Md	2-22
Ereona Corp	
551 Fifth Ave New York 17 NY	5-5-7-8-14-21-22
E-Z Way Towers Inc	
5901 E Broadway Tamoa 5 Fla	9-17-20-27
Federal Screw Products Inc	
3917 N Kedzie Ave Chicago 18 Ill	9
Federal Shockmount Corp	
1060 Washington Ave New York 56 NY	20
Filmohm Corp	
45 W 25 St New York 10 NY	6
Finney Co	
34 W Interstate St Bedford Ohio	4-9-17-20
Frequency Standards Inc	
P O Box 504 Asbury Park NJ	5-7
Gabriel Electronics Div Gabriel Co	
135 Crescent Rd Needham Heights 94 Mass	5-8-15-20

8—ANTENNA ACCESSORIES

Assemblies, HF	1
Baluns	2
Clamps, ground	3
Coupling & phasing units	4
Diplexers	5
Dummy loads	6
Duplexers	7
Feed systems	8
Hardware	9
Heaters	10
Housing	11
Insulators	12
Isolation units	13
Lenses, R-F	15
Lightning arresters	14
Links	16
Masts	17
Monitors	18
Monitors, R-F power	19
Mounts	20
Multi-set couplers	21
Outlets	22
Remote controls	23
Spreaders, feeders	24
Springs, grounding	25
Switching equipment	26
Tower lighting	27
Tuning units	28

Abalon Precision Mfg Corp	
540 Casanova St New York 59 NY	9-11
Adler Electronics Inc	
1 Lefevre Lane New Rochelle NY	4-6-28
Aerolite Electronics Corp	
2207 Summit Ave Union City NJ	14
Aksile Corp	
312 Quincy Ave Quincy 69 Mass	1-2-8-15-17-20
Aircorn Inc	
139 E 1st St Roselle NJ	6-7
Airtron Inc	
1108 W Elizabeth Ave Linden NJ	6-7-8-9-14-15-26-28

Garde Mfg Co 568 Eddy St Providence 3 RI	14	Lapp Insulator Co Radio Specialties Div 318 Gilbert St Le Roy NY	6-12	Prodelin Inc 307 Hergen Ave Kearny N J	5
Gates Radio Co 123 Hampshire St Quincy Ill	4-6-14-27-28	Lee Chemical Corp Walter 1383 Seabury Ave & Butler Pl Bronx 61 NY	12	Q-Line Mfg Corp 1562 61 St Brooklyn 19 NY	2-4-5-6-7-9-12-14-20-21
Geo-Lar Mfg Co 418 S Wyman St Rockford Ill	3-9-12-15-20	Leonard Electric Products Co 67 34 St Brooklyn 32 NY	2	Radar Design Corp 2360 James St N Syracuse 12 NY	5-6-7-19
General Bronze Corp 711 Stewart Ave Garden City NY	2-5-6-7-8-9-10-11-12-13-14 15-17-19-22-23-24	Lettine Radio Mfg Co 62 Berkley St Valley Stream NY	28	Radiation Inc P. O. Box 37 Melbourne Fla	4-6-8-15-21-23
General Communication Co 677 Beacon St Boston 15 Mass	6	Lieco Inc 3610 Oceanside Rd Oceanside NY	4	Radio Activities Inc 119 Dawson Ave Bonton NJ	1-4-5-7-26
General Electric Co Dist Assemblies Dept 41 Woodford Ave Plainville Conn	8	Litton Industries Components Div 5873 Rodeo Rd Los Angeles 16 Calif	13	Radio City Products C Center & Glendale Sta Easton Pa	23
General Mills Inc Mechanical Div 1620 Central Ave Minneapolis 13 Minn	20	Litton Industries of Calif 336 N Foothill Rd Beverly Hills Calif	13	Radio Corp of America Commercial Electronic Products Front & Cooper Sts Camden NJ	2-4-7-8-9-13-14-20-23-27-28
General Radio Co 275 Massachusetts Ave Cambridge 38 Mass	2	Lord Mfg Co 1635 W 12 St Erie 4 Pa	20	RCA Electron Tube Div 415 S 5 St Harrison NJ	14-21
General RF Fittings Inc 702 Beacon St Boston 16 Mass	1-6-7	Lorentzen Inc H K 391 W Broadway New York 12 NY	17	Radio Merchandise Sales Inc 2016 Bronxdale Ave Bronx 62 NY	9-17-20-21
Glastic Corp 4821 Glenridge Rd Cleveland 21 Ohio	12	Lumenite Electronic Co 407 S Dearborn St Chicago 5 Ill	23-26	Radio Receptor Co/Div GIC 240 Wythe Ave Brooklyn 11 NY	10
Granger Associates 966 Commercial St Palo Alto Calif	1-12-17-26	Lynmar Engineers Inc 1432 N Carlisle St Philadelphia 21 Pa	2-7-21-22	Ram Electronics Inc 600 Industrial Ave Paramus NJ	2-21
Great Eastern Mfg Co 163-165 Remsen Ave Brooklyn 12 NY	21	Mack Electronics Div Inc 1000 S 2 St Plainfield NJ	6	Red Seal Electric Co 6321 Detroit Ave Cleveland 2 Ohio	12
Gulton Industries Inc 212 Durham Ave Metuchen NJ	20	Macon Electronics Box 56 Warrensburg Ill	17	Rego Insulated Wire Co 830 Monroe St Hoboken NJ	14-21-26
Harvey-Wellis Electronics Inc North St Southbridge Mass	4-6	Madigan Corp 528 Mincola Ave Carle Place NY	9-17-23	Reliable Spring & Wire Forms Co 3167 Fulton Rd Cleveland 9 Ohio	25
Hazeltine Electronics Div/Hazeltine Corp 59-25 Little Neck Pkwy Little Neck 62 NY	1-2-5-7-25-13	Magnesium Products of Milwaukee Inc 748 W Virginia St Milwaukee 4 Wis	17-20	Reedel Engrg Corp 830 S Fair Oaks Ave Pasadena Calif	21
Heath Co 305 Territorial Rd Benton Harbor Mich	2	Makepeace Div D E Englehard Industries Inc Pine & Denham Sts Attleboro Mass	4-5-7-8-16	Richt Electronics Inc 212 NW 8 Ave Miami 36 Fla	1-26-28
Henry & Miller Industries Inc 475 Garfield Ave Jersey City 5 NJ	11-20-23	Malco Tool & Mfg Co 4025 W Lake St Chicago 24 Ill	9	Rixton Electronics Inc 2414 Reddie Dr Silver Spring Md	2-6-14-19-26
Hoffman Electronics Corp 3761 S Hill St Los Angeles 7 Calif	4-5-7-21-26	Malkin-Illion Co 400 Coit St Irvington 11 NJ	20	Robinson Aviation Inc Peterboro NJ	20
Holland Electronics 772 E 53 St Brooklyn NY	6-13	Maryland Electronic Mfg Corp 5009 Calvert Rd College Park Md	20	Ropes Co Topsfield Mass	6
Houston Fearless Div Color Corp of America 11801 W Olympic Blvd Los Angeles 64 Calif	20-23	Masterite Industries Inc 835 W Olive St Inglewood Calif	3	Rozan Bros 4021 N Monticello Skokie Ill	23
Huchey & Phillips 3300 N San Fernando Blvd Burbank Calif	27	Merit Coil & Transformer Corp 2027 Sherman St Hollywood Fla	2-13	Rohn Mfg Co 116 Limestone Bellevue Peoria 5 Ill	17-20
Hyeon Eastern Inc 75 Cambridge Pkwy Cambridge 42 Mass	5-16-26	Mathis Co G E 6100 S Oak Park Ave Chicago 38 Ill	17-20	Roslan Corp 1660 59 St Maspeth 78 NY	17
IE Mfg 325 N Hoyne Ave Chicago 12 Ill	3-9-11-12-17-20	Mazon Corp W L 475 10 Ave New York 18 NY	4	Saxton Products Inc 1661 Roone Ave New York 60 NY	2-14
Illumitronic Eng'g Co 680 E Taylor Ave Sunnyvale Calif	2	Mechanical Steel Tubing Corp 500 Barry St New York 59 NY	17	Scientific-Atlanta Inc 2162 Piedmont Rd NE Atlanta 9 Ga	8-15-23
Industrial Radio Corp 428 N Parkside Ave Chicago 44 Ill	18	Medal Mfg Co P O Box 292 Sharon Pa	9	Scientific Electric 105 Monroe St Garfield NJ	10
Instrumenta Inc 122 N Madison St Tulsa Okla	18	Meridian Metalcraft Inc 8739 E Millergrove Dr Whittier Calif	7-8-21	Sierra Electronics Corp 8885 Robanion Dr Menlo Park Calif	6-19
Isolantite Mfg Corp Warren Ave Stirling NJ	12-14	Metal Fabricators Corp 63 Pond St Waltham 54 Mass	9-17-20	Silicon Insulation Inc Seabury Ave & Butler Pl Bronx 61 NY	11-17
Insuline Corp of America 186 Granite St Manchester NH	9-11-12-20	Metal Specialty Products Corp 27-01 Brooklyn Queens Expressway W Woodside 77 NY	1-6-9-11-17-28	Snyder Mfg Co 22 & Ontario Sts Philadelphia 40 Pa	17
I-T-E Circuit Breaker Co Special Products Div 601 E Erie Ave Philadelphia 34 Pa	5-6-7-20-26	Microlab Okner Pkwy Livingston NJ	6	South River Metal Products Co 377 Turnpike South River NJ	20
Janco Corp 3111 Winona Ave Burbank Calif	16	Microphase Corp Box 1166 Greenwich Conn	5-7	Sperdy Gyroscopic Co Microwave Electronics Div Great Neck NY	1-4-5-6-7-8-13-15- 18-19-21-26-28
Javez P O Box 646 Redlands Calif	4-9-21-22-23-26	Microtech Inc 2975 State St Hamden 17 Conn	4-5-7-8	Spirling Products Co Henrietta St & Duffy Ave Hicksville LI NY	3-9-17-20
Jerrold Electronics Corp 23 & Chestnut Sts Philadelphia 3 Pa	4-21-22-26	Millen Mfg Co James 150 Exchange St Malden 48 Mass	2-12-24	Stainless Inc 8 St North Wales Pa	14-17-20-27
JFD Electronic Corp 6101 16 Ave Brooklyn 4 NY	2-9-12-14-17-20-21	Miller Co J W 5917 S Main St Los Angeles 3 Calif	2	Standard Electronics Div Radio Engrg Labs 30 & Borden St Long Island City NY	2-5-6
Johnson Co E F 206 2 Ave B W Waseca Minn	4-12-13-24-25	Miskella Infra-Red Co E 73 & Grand Ave Cleveland 4 Ohio	10	Stutes Co 19 New Park Ave Hartford 6 Conn	6
Jones Electronics Co M C 185 N Main St Bristol Conn	6	Modern Wire Co 39-30 Review Ave Long Island City 1 NY	20	Suffolk Products Corp Woodbine & Scudder Ave Northport NY	6
J.V.M. Eng'g Co 4633 S Lawndale Ave Lyons Ill	1-2-4-5-6-7-8-19	Murrow Radio Mfg Co 2794 Market St Salem Oregon	24	Superex Electronics Corp 58 Marbledale Rd Tuckahoe NY	1-2-4-13-21
Kahn & Co 641 Windsor St Hartford 1 Conn	23	Moselev Co F L 409 N Fair Oaks Ave Pasadena Calif	2	Swenson Co V H 556 Elm St Arlington NJ	11
Kay-Townes Antenna Co Box 593 Rome Ga	14-17-20-21	Mynales Corp of America 125 Clifton Blvd Clifton NJ	12	Sylvania Electric Products Inc Parts Div 12 2nd Ave Warren Pa	22
Kearfutt Co Inc 1378 Main Ave Clifton NJ	6-7-8-13	Nelvana Inc Wheeling Ill	17	Taber Mfg Co 1336 Balentine Blvd Norfolk 12 Va	27
Kearfutt Co Inc 14844 Onward St Van Nuys Calif	6-7-8-13	Narda Microwave Corp 118-160 Herricks Rd Mineola NY	6	Taffet Radio & TV Co 27-05 Brooklyn-Queens Expressway W Woodside 77 NY	1-6-9-11-17-28
Kelsey-Hayes Co 3600 Military Ave Detroit 32 Mich	15-20	National Electric Products Corp 2 Gateway Center Pittsburgh 22 Pa	9-17	Ta-Mar Inc 11571 W Jefferson Blvd Culver City Calif	7-8-9-13-23
Kennedy & Co D S 155 King St Cobasset Mass	5-7-8	Newcomb Spring Corp 177 E Hawthorne Ave Valley Stream NY	9-20-25	Technical Appliances Corp 1 Taco St Sherburne NY	2-4-5-7-20-21-22
Kenwood Eng'g Co 265 Colfax Ave Kenilworth NJ	9-17-20	Newcomb Spring of Conn 510 Queen St Southington Conn	25	Technical Material Corp 700 Fenimore Rd Mamaroneck NY	1-2-3-4-6-8-13-21-23-28
Kings Electronics Co Inc 40 Marbledale Rd Tuckahoe NY	6-7	Norrish Plastics Corp 107 W 14th St New York 16 NY	9-11-12	Technical Oil Tool Corp 1057 N La Brea Los Angeles 38 Calif	6-7
Klinv Metal Spinning & Stamping Co 245 Centre St New York 13 NY	11	N P K Mfg & Eng'g Co 4601 W Addison St Chicago 41 Ill	7-9	Technicraft Labs Inc Thomaston-Waterbury Rd Thomaston Conn	3-7
Kuss Industries Inc Tacony & Lewis Sts Philadelphia 24 Pa	17	Nuclear Products-Erco Div ACE Industries Inc Riversdale Md	20	Telechrome Mfg Corp 28 Ranick Dr Amityville LI NY	5-19
K-W Eng'g Works 15920 Pin Oak Ct Butler Wis	9	Ohmite Mfg Co 3601 Howard St Skokie Ill	6	Teletro Industries Corp 35-18 37 St Long Island City 1 NY	4-6-6-7-21-28
Laboratory For Electronics Inc 75 Pitts St Boston 14 Mass	15	Parker Metal Goods Co 95 Prescott St Worcester 3 Mass	3-4-9-12-17-20-21-22-26	Telematic Industries Inc 16 Howard Ave Brooklyn 7 NY	21
Lance Antenna Mfg Co 1730-1802 1st St San Fernando Calif	3-4-9-12-14-17-20-21-23	Peoria Simpson, Inc 3023 Coral Way Miami 34 Fla	9-17-28	Telerad Mfg Corp Route 69 Flemington NJ	7
La Pointe Industries Inc 155 W Main St Rockville Conn	14-17-21	Petroff Corp Peter A 127 Water St New York 5 NY	6-12-17	Telerad Mfg Corp 1440 Broadway New York 18 NY	2-6-7-8

Tecco Insulated Wire	
108 E Prospect Ave	
Burbank Calif	
Thomas & Sons R	4-9-12-21-22
Libanon Ohio	12
Thomas Mold & Die Co	
249 W Henry St Wooster Ohio	17
Thor Ceramics Inc	
225 Belleville Ave Bloomfield NJ	12-24
Thordarson Meissner Mfg	
Div Magna Industries Inc	
7th & Bellmont St Carmel Ill	2
Topp Industrial Inc	
5265 W 102 St Los Angeles 45 Calif	10
Tower Construction Co	
2700 Hawkeye Dr Sioux City 2 Iowa	17
Tranco Products Inc	
12210 Nebrauka Ave	
Los Angeles 25 Calif	2-7
Trans-Tel Corp	
910 N Orange Dr Los Angeles 38 Calif	21
Trio Mfg Co	
2948 N 5 St Milwaukee 12 Wis	8
Tricraft Products Corp	
1124 W Newport Ave	
Chicago 22 Ill	4-9-14-17-20
Tri-Ex Tower Corp	
127 E Inyo St Tulare Calif	9-17-27
Trico Mfg Co	
Griggsville Ill	9
TV Hardware Mfg Co Div Textron Inc	
400 S Wyman St Rockford Ill	20
TV Specialty Co	
350 W 31 St New York 1 NY	18
United Mineral & Chemical Corp	
16 Hudson St New York 13 NY	12
Univox Corp	
102 Warren St New York 7 NY	2
Unwage Inc	
109 Waring St Farmingdale NY	6-7
Victor RF & Microwave Co	
36 W Water St Wakefield Mass	6-7
Vidaire Electronics Mfg Corp	
44 Church St Haldwin NJ	21
Video Accessory Mfg Co	
P O Box 223 Tulsa 1 Okla	17-20
Virginia Electronics Co	
River Rd & B & O RR	
Washington 16 D C	1-18-23-25
Vulcan Electric Co	
88 Holten St Danvers Mass	10
Wacine Inc	
35 S St Clair St Dayton 2 Ohio	6
Walco Electronics Mfg Co	
100 W Green St	
Rockford Ill	9-14-17-20-21-24
Waterbury Pressed Metal	
300 Chase Ave Waterbury 14 Conn	9
Wavline Inc	
P O Box 518 Caldwell NJ	7
Welcher Mfg Co	
242 Shoreline Blvd Mill Valley Calif	28
Welwyn Electrical Labs	
Bellington Northumberland England	6
Westbury Electronics Inc	
300 Shames Dr Westbury NY	6
Western Coil & Electrical Co	
216 State St Racine Wis	12-11
Westlake Plastics Co	
133 W Lenni Rd Lenni Mills Pa	12
Wiegand Co Edwin I.	
7500 Thomas Blvd Pittsburgh 9 Pa	10
White Dental Mfg Co SS Industrial Div	
10 E 40 St New York 16 NY	23
White & Son James L	
374 Verona Ave Newark 4 NJ	3
Winder Aircraft Corp of Fla	
P O Box 2397 Drane Fld	
Lakeland Fla	3-11-12-17-20
Wind Turbine Co	
E Market St & P RR	
W West Chester Pa	12-15-20-27
Winegarh Co	
3000 Scotten Blvd Burlington Iowa	4-17-20
Wisconsin Porcelain Co	
121 Lincoln St Sun Prairie Wis	12
Young Spring & Wire Co Ganset Div	
801 S Main St Burbank Calif	17-29
Zenith Plastics Co	
1600 W 135 St Gardena Calif	11-12

9-AVIATION AUXILIARY ELECTRONIC EQUIPMENT

Antenna accessories	1
Antennas, aviation	2
Autopilot	3
Controls, aircraft	4
Emergency equipment	5
Gyroscopes	6
Power Supplies	7
Power supplies, emergency	8
Power supplies, 400 CPS	9
Recorders, airborne film	10
Recorders, airborne magnetic	11
Recorders, airport controller	12
Test equipment	13
Transducers	14
Vibration mountings	15

COMMUNICATIONS NAVIGATION EQUIPMENT

Airborne landing systems	16
Altimeters, radio	17
Computers	18
Controls, aircraft navigation	19
Controls, guided missile	20
Controls, remote radio	21
Distance measuring equip.	22
Facsimile	23
Flight simulators & trainers	24
Ground landing systems	25
Guided missile telemetering	26
Infrared systems	35
Intercommunication systems	27
Lamps, aircraft	28
Navigation equipment, airborne	29
Navigation equipment, ground	30
Radar	31
Radar beacons	32
Receivers	33
Transmitters	34

AC Electronics Div GMC	
1925 E Kenilworth Pl	
Milwaukee 1 Wis	4-6-9-13-19-20-26-29
ACF Industries Nuclear Prods-Erco Div	
48 Lafayette St Riverdale Md	13-24-33
Acoustics Associates	
26 Windsor Ave Mineola NY	14
Adler Electronics Inc	
1 Leveys Lane	
New Rochelle NY	7-20-26-33-34
Admiral Corp	
3800 W Cortland St	
Chicago 47 Ill	31-32-33-34
Advance Industries Inc	
640 Memorial Dr	
Cambridge 39 Mass	9-18-20-24-31-32
Advance Instrument Corp	
1709 F St Belmar NJ	9
Aero Electronics Co	
1612 N Wells St Chicago 10 Ill	13-19-29
Aeroflex Labs	
34-06 Skillman Ave	
Long Island City 1 NY	6
Aeromotive Engg Products Ltd	
5257 Queen Mary Rd	
Montreal Que Canada	14
Aeronautical Electronics Inc	
P O Box 6327 Raleigh N Carolina	33-34
Aeronaics Mfg Corp	
Hilltop & Frederick Rds	
Baltimore 28 Md	26-35
Aeronutronic Systems Inc	
1234 Airway Glendale	
Los Angeles Calif	3-4-18-19-20-26-31-32-34-35
Aerophysics Dev Corp Sub Curtis-Wright Corp	
P O Box 689	
Santa Barbara Calif	7-11-20-22-26
Aeroteat Laboratories	
129-11 18 Ave College Point 56 NY	13
Afton Industries	
406 St Louis Ave Valley Park Mo	19-11
Airborne Accessories Corp	
1414 Chestnut Ave Hillside 5 NJ	4-7-19-20
Aircorn Inc	
354 Main St Winthrop Mass	7-18
Aircraft & Electronic Specialties	
22 S Green St Brownsburg Ind	13
Aircraft Radio Corp	
Bloomton Ind	
1-2-7-13-16-19-23-33-34	
AirResearch Mfg Co Div Garrett Corp	
9851 Sepulveda Blvd	
Los Angeles 45 Calif	5-13-14-18-20
Airrax Products Co Seminole Div	
City of Plantation Ft Lauderdale Fla	9
Airtro Inc	
1108 W Elizabeth Ave	
Linden NJ	31-32-33-34
Alden Electronic & Impulse	
Recording Equip Co	
P O Box 125 Weathersboro Mass	13-23
All American Eng'g Co	
DuPont Airport Box USS	
2868 Wilmington 5 Dela	8
Allis Co Louis	
427 E Stewart St Milwaukee 1 Wis	9
Alto Scientific Co	
855 Commercial St Palo Alto Calif	7-9-10-13
American Brass Co	
414 Meadow St Waterbury 88 Conn	1
American Electronic Laboratories	
121 N 7 St	
Philadelphia 6 Pa	18-25-31-32-33
American Electronics Co	
1203 Bryant Ave New York 59 NY	34
American Gyro Corp	
3030 Nebraska Ave Santa Monica Calif	6-14
Alproden Inc	
840 Weakley Ave Memphis Tenn	1-4
American Machine & Foundry Co Gen Eng	
Labs	
11 Bruce Pl Greenwich Conn	22-24-26-31
American Machine & Foundry Co	
Electronics Div 1085 Commonwealth Ave	
Boston 16 Mass	22-25-29-32
American Machine & Foundry Co Defense	
Products Group 1101 N Royal St	1-8-13-16-
Alexandria Va	20-22-25-26-29-30-32
American Microwave Corp	
11754 Vose St N Hollywood Calif	26-33-34
American Printed Circuits Co	
104 Forrest St Metuchen NJ	26
American Rectifier Corp	
95 Lafayette St New York 13 NY	7-8-13-27
American Research & Mfg Corp	
920 Halpine Ave Rockville Md	3-7-9
American Searchlight Corp	
38 W 53 St New York NY	35
American Television & Radio Co	
300 E 4 St St Paul 1 Minn	7-8
Amphenol Electronics Corp	
1830 S 54 Ave Chicago 50 Ill	2
Amplifier Corp of America	
398 Broadway New York 13 NY	7-9
Amplivox Ltd	
2 Bentiner St London W I England	14
Analogue Controls Inc	
39 Roselle St Mineola NY 4-18-19-20-24-29-30	
Anchor Specialty Mfg Co	
300 Hollister Rd Teterboro NJ	13
Andrew California Corp	
941 E Maryland Ave	
Claremont Calif	1-2-26-31
Andrew Corp	
363 E 75 St Chicago 19 Ill	1-2-26-31
Anaco Div Genl Aniline & Film Corp	
Charles St Binghamton NY	10
Antenna & Radome Research Assoc	
1 Bond St Westbury NY	2
Applied Research Inc	
76 S Bayles Ave Port Washington NY 33-34	
Applied Science Corp of Princeton	
P O Box No 44 Princeton NJ	26
A R F Products Inc	
P O Box 57 Ranton NM	13-16-26-27-31
Arma Div American Bosch Arms Corp	
Garden City NY	6-18-26-29-31
Arnoux Corp	
11924 W Washington Blvd	
Los Angeles 66 Calif	7-9-14
A R & T Electronics Inc	
1501 E 6th St N Little Rock Ark	26
Associated Missile Products	
Sib American Mch & Etry	
2709 N Garey Ave Pomona Calif 13-24-25-32	
Atlas Precision Products Co	
3801 Castor Ave Philadelphia 24 Pa	13
Audicon Electronics Inc	
216 Lyon St Paterson 4 NJ	7-15-25-33-34
Automatic Switch Co	
Hanover Rd Florham Park NJ	3
Automatic Timing & Controls Inc	
King of Prussia Pa	14
Aveco Mfg Corp Crosley Div	
1329 Arlington St	
Cincinnati 25 Ohio	29-30-31-32-33-34
Avion Div ACF Industries Inc	
11 Park Pl Paramus NJ	29-32-35
Avionics Ltd P O Box 200	
Niagara-On-The-Lake	
Ontario Canada	14-26
Avtron Mfg Inc	
10409 Meech Ave Cleveland 8 Ohio	9-13
Axler Associates Inc	
10242 43 Ave New York 68 NY	35
Babcock Radio Eng'g Inc	
7942 Woodley Ave Van Nuys Calif 15-21-32	
Baird-Atomic Inc	
33 University Rd Cambridge 38 Mass	29-35
Baldwin-Lima-Hamilton Corp	
Electronics & Instrumentation Div	
45 Fourth Ave Waltham 54 Mass	14
Barber Labs Alfred W	
32-44 Francis Lewis Blvd	
Flushing 58 NY	33-34
Barnes Development Co	
213 W Baltimore Ave Lansdowne Pa	13
Barnett Instrument Co	
102 St Clark St Clarksville Tenn	13
Barrett Electronics Corp	
630 Dundee Rd Northbrook Ill	21
Barry Controls Inc	
700 Pleasant St Watertown 72 Mass	15
Barton Electronics Inc	
1600 Farmington Ave W Hartford 7 Conn 14	
Beam Instruments Corp	
350 5th Ave New York 1 NY	31-32-33-34
Beattie-Coleman Inc	
1000 N Olive St Anaheim Calif	10
Bell Aircraft Corp	
P O Box 1	
Buffalo 5 NY	3-14-20-24-25-
Belock Instrument Corp	26-29-30-31-33
111-01 14 Ave	
College Point 56 NY	6-19-20
Bendix Aviation Corp Pacific Div	
11600 Sherman Way	
N Hollywood Calif	14-16-22-26-29-31-32
Bendix Aviation Corp Bendix Computer	
Div 5630 Arbor Vitae St	
Los Angeles 42 Calif	24
Bendix Aviation Corp Bendix Radio Div	
Baltimore 4 Md	2-16-19-20-22-29-31-33-34
Bendix Aviation Corp Red Bank Div	
Rt 35 Eatontown NJ	7-8-9
Bendix Aviation Corp	
1104 Fisher Bldg	
Detroit 2 Mich	3-6-7-14-16-17-18-19-20-21-
22-25-26-29-30-31-32-33-34	
Bendix Aviation Corp Cincinnati Div	
3130 Watson Rd	
Cincinnati 8 Ohio	7-9-13-33-34
Bergen Labs	
247 Crooks Ave Clifton NJ	9-13
Bernco Engineering Corp	
3320 S Tibbs Ave	
Indianapolis 41 Ind	4-13-20

Berndt-Bach Inc Auricon Div
6900 Romaine Ave Hollywood 38 Calif 10-11

B J Electronics Borg-Warner Corp
3400 Newport Ave Santa Ana Calif 14

Blaine Electronics Inc
14757 Keawick St Van Nuys Calif 13

Bogue Electric Mfg Co
52 Iowa Ave
Paterson 1 NJ 4-5-7-8-9-18-19-20-21

Bomac Labs Inc
Salem Rd Beverly Mass 31

Bone Eng'g Corp
701 W Broadway Glendale 4 Calif 7-8-9-13

Boch Inc M Ten
80 Wheeler Ave Pleasantville NY 6-14

Briggs Associates
10 Dekalb St Norristown Pa 4-18-20-21-26

Browning Labs Inc
750 Main St Winchester Mass 7-13-33

Brubaker Electronics Inc
3652 Eastham Dr
Culver City Calif 29-30-31-32-33

Bruno-New York Industries Corp
460 W 34 St New York 1 NY 16

Brush Instruments
3405 Perkins Ave Cleveland 14 Ohio 13

Bundy Electronics Corp
171 Fabyan Pl Newark 12 NJ 7-8-9

Bunnell & Co J H
81 Prospect St Brooklyn 1 NY 23-24

Burroughs Corp
6071 2 Ave Detroit 32 Mich 19-20-29

Calif Magnetic Control Corp
11922 Valerio St N Hollywood Calif 7-8-9

Calif Technical Industries Div Textron Inc
1421 Old County Rd Belmont 10 Calif 13

Cal-Ohm Labs Inc
Broadway & Adams St Sterling Kansas 18

Canadian Applied Research Lab
1500 O'Connor Dr Toronto 16 Can 10-18-29

Canadian Aviation Electronics Ltd
6214 Cote de Liesse Rd
St Laurent Quebec Canada 29-30-32-33

Canoga Corp
5955 Sepulveda Blvd Van Nuys Calif 31-32

Cardinal Instrumentation Corp
4201 Redwood Ave Los Angeles 66 Calif 14

Cedar Eng'g Inc
5806 W 36 St
Minneapolis 16 Minn 4-6-13-19-20

CELCO Conatantine Eng'g Labs Co
P O Box 555 Mahwah NJ 7

Chance Vought Aircraft Inc
P O Box 5907 Dallas Texas 2-3-4

Chatham Electronics Div Gera Corp
W Mt Pleasant Ave Livingston NJ 7-8

Chemalloy Electronics Corp
Gillespie Airport Santee Calif 13-31

Chesapeake Instrument Corp
Shady Side Md 14

Clevite Harria Products Inc
6545 Carnegie Ave Cleveland 3 Ohio 15

Clifton Precision Products Co
9814 West Chester Pike Upper Darby Pa 18

Coaxial Connector Co
37 N 2 Ave Mt Vernon NY 2

Coils Electronics Co
2339 49 N 2nd St Phila 33 Penna 33

Collins Radio Co
855 35 St NE 1-2-3-7-18-16-19-20

Cedar Rapids Iowa 21-22-27-29-30-31-33-34

Columbia Research Labs
MacDade Blvd & Bullens La
Woodlyn Pa 18-14

Computer Eng'g Associates Inc
350 N Halsted St Pasadena Calif 7

Computing Devices of Canada Ltd
P O Box 508 Ottawa Ontario Can 13-18-22-29

Conn Telephone & Electric Corp
76 Britannia St Meriden Conn 13-27

Conrad Inc
141 Jefferson St Holland Mich 13

Consolidated Avionics Corp
800 Shames Dr Westbury NY 7-8-9-13-21-26

Consolidated Controls Corp
4 Durant Ave Bethel Conn 4

Consolidated Diesel Electric Corp
880 Canal St Stamford Conn 7-8-9

Consolidated Electrodynamics Corp
800 N Sierra Madre Villa
Pasadena Calif 8-10-11-13-14-26

Consolidated Productions Inc
Broward Int'l Airport
Ft Lauderdale Fla 21-24

Continental Electric Co
325 Ferry St Newark 5 NJ 9

Control Data Corp
501 Park Ave
Minneapolis 15 Minn 6-11-18-20-26

Control Electronics Co Inc
1925 New York Ave
Huntington Sta NY 7-9-13-29-32-33

Controlled Atmosphere Enclosures Corp
230-11 141 Ave
Springfield Gardens LI NY 13

Control Specialists Inc
115 E Arbor Vitae St Inglewood 1 Calif 3

Convair-San Diego
P O Box 1950
San Diego 12 Calif 1-2-13-19-20-24-31-32-35

Cook Co Frank R
36 S Santa Fe Dr Denver 23 Colo 7-8

Cook Electric Co
2700 Southport Ave Chicago 14 Ill 4-19

Cooper Co D C
1467 E Michigan Ave Chicago 5 Ill 13

Corbin Corp
5419 56th Place
Riverdale Md 16-18-19-20-23-24-25-26-29-30-31-33-34-35

Cosser Canada Ltd
30 Windsor St Halifax
Nova Scotia Canada 13-27-31-32-33-34

Courier Products Div Model Eng'g & Mfg Inc
N Lake St Boyne City Mich 4

Craig Systems Inc
90 Holten St
Danvers Mass 2-16-19-20-23-25-26-27-29-30

Creative Electronics Corp
84 Lincoln Ave
Stamford Conn 7-9-29-33-34

Crescent Eng'g & Research Co
5440 N Peck Rd El Monte Calif 13-14

Croname Inc
3701 Ravenwood Ave Chicago 13 Ill 21

Crown Engineering
3821 Commercial NE Albuquerque NM 13

Cubic Corp
5575 Kearny Villa Rd
San Diego 11 Calif 7-18-18-22

Cunningham Son & Co James
33 Litchfield St Rochester 8 NY 13

Curtis-Wright Corp Electronics Div
631 Central Ave
Carlsbad NJ 7-9-13-16-24-30

Dale Products Inc
P O Box 136 Columbus Nehr 1-2

Dalmo Victor Co Div Textron Inc
1515 Industrial Way Belmont Calif 1-20

Darco Industries Inc Gyro Dynamics Div
2151 E Rosecrans Ave
El Segundo Calif 8-4-6-14-19-20

Datscan Inc
48 Notch Rd Little Falls N J 7-9

Daven Co
Route 10 Livingston N J 7-21-27-33-34

Davenport Mfg Co
1713 N Ashland Ave Chicago 22 Ill 7-13

Daystrom Pacific Corp
3320 Lincoln Blvd Los Angeles Calif 6-14-20

Daystrom Pacific Corp
3030 Nebraska Ave Santa Monica Calif 6-14

Daystrom-Weston Industries
Die Daystrom Inc
753 Main St Poughkeepsie NY 10-11-33

Dayton Aviation Radio & Equipment Corp
P O Box 235
Troy Ohio 22-25-27-29-31-33-34

Daytronic Corp
216 S Main St Dayton 2 Ohio 14

Defiance Eng'g & Microwave Corp
Beverly Airport Beverly Mass 2

Deming Indicator Co
1016 Acorn Dr Dayton 9 Ohio 13

Designers for Industry
4241 Fulton Pkwy
Cleveland 9 Ohio 9-10-13-20-23-26-31-32-33-34

Detroit Controls Corp Norwood Controls
Unit 834 Washington St
Norwood Mass 14

Devol Research Co
Brookside Dr Greenwich Conn 11-20

Diamond Antenna & Microwave Corp
7 North Ave
Wakefield Mass 1-13-16-25-29-30-31-32

Digital Equip Corp
Maynard Mass 18

Dirigo Compass & Instrument Co
Rosing Field Box 87 Seattle 8 Wash 13-24

Dit-MCO Inc Electronics Div
911 Broadway Kansas City Mo 13

Dittmore-Freimuth Corp
2517 E Norwich St Milwaukee 7 Wis 1

Donner Scientific Co
888 Galindo St Concord Calif 14-29

Dorne & Margolin
29 New York Ave Westbury NY 22

Dressen-Barnes Corp
250 N Vinado Ave Pasadena Calif 9

Dunlap Electronics
754 9 St Des Moines 14 Iowa 14

Dynac Inc
395 Page Mill Rd Palo Alto Calif 13

Dynamic Electronics Inc
73-29 Woodhaven Blvd
Forest Hills NY 1-2-5-7-9-15-16-27-29-30-31-32-33

Dynamic Instrument Corp
59 New York Ave Westbury NY 4-7-9-13

Dynamics Research Associates Div
Universal Match Corp P O Box 5841
Ferguson 21 Mo 4-7-20

Dynatron Inc
717 W Amelia Ave Orlando Fla 2-9-13-20-26

Dynex Inc
777 Dynes Dr Pewaukee Wis 13-20

Eclipse-Pioneer Div
Bendix Aviation Corp
Teterboro NJ 1-2-3-4-6-13-18-19-20-21-29

Edcliff Instruments
1711 S Mountain Ave Monrovia Calif 14

Elicor Inc Div Jacobs Co
517 W Walnut St Opelshy Ill 7-9

Eldico Electronics
29-01 Barden Ave
Long Island City 1 NY 7-13-33-34

Electrend Products Corp
Box 110 St Joseph Mich 1

Electric Boat Div General Dynamics
Eastern Point Rd Groton Conn 14-15-24

Electric Machinery Mfg Co
800 Central Ave Minneapolis 13 Minn 5-7-9

Electric Specialty Co
211 South St Stamford 1 Conn 9

Electrical Communications Inc
765 Clementina St
San Francisco 3 Calif 4-19-20-21-26

Electrola Inc
7517 N Clark St Chicago 26 Ill 21

Electromation Co
1646 18 St Santa Monica Calif 18-22-29

Electro-Measurements Inc
7524 9 W Macadam Ave Portland 1 Ore 18

Electronic Associates Inc
Long Branch NJ 4-7-12-13-18-24-30

Electronic Brazing Co
140 Glenridge Ave Montclair NJ 13

Electronic Communications Inc
1501 72 St
St Petersburg Fla 18-19-20-21-29-30-32-33-34

Electronic Control Systems
2231 Harrington Ave
Los Angeles 64 Calif 11-13-18-21-22

Electronic Production & Development
138 Nevada St El Segundo Calif 7-8-9-13

Electronic Research Associates
67 Factory Pl Cedar Grove NJ 7-9

Electronics Corp of America
1 Memorial Dr Cambridge 42 Mass 35

Electronic Specialty Co
5121 San Fernando Rd
Los Angeles 39 Calif 1-2-4-7-9-11-13-19-20-27-29-31

Electro Snap Switch & Mfg Co
4218 W Lake St Chicago 24 Ill 4-20

Electro Vision Lab
41-05 45th St Long Island City 1 NY 21

Elm Labs
10 Washington Ave
Haustings-on-Hudson NY 27

Elsco Metal Products Co
776 39 St Brooklyn 32 NY 1

Emerson Electric Mfg Co
8100 Florissant Ave
St Louis 21 Mo 1-2-13-31-35

Empire Devices Products Corp
38-15 Bell Blvd Bayside 61 NY 9

Empire Product Sales Corp
37 Prospect St Amsterdam NY 7-9-13

Enlo Corp
Fellowship Rd Route 75 Maple Shade NJ 1

Engineered Electronics Co
506 E 1 St Santa Ana Calif 18

Engineered Magnetics
Div Gulton Industries Inc
13030 Coriase Ave Hawthorne Calif 7-9

Engineering Associates
434 Patterson Rd Dayton 9 Ohio 33

Epsco Inc
588 Commonwealth Ave Boston 15 Mass 26

Ero Radio Labs Inc
637 Stewart Ave Garden City NY 26-30-33-34

Eric Resistor Corp
644 W 12 St Erie 6 Pa 14

Executone Inc
416 Lexington Ave New York 17 NY 27

Fairchild Controls Corp Components Div
225 Park Ave Hicksville LI NY 6-14

Fanon Electric Co
90 Berriman St Brooklyn 8 NY 27-33

Farnsworth Electronics Co Div I T & T
3702 E Pontiac St
Ft Wayne Ind 19-20-22-26-30-31-33-35

Farrand Controls Inc
4401 Bronx Blvd New York 70 NY 20

Fecker Inc J W
6592 Hamilton Ave Pittsburgh 6 Pa 24-29-35

Federal Mfg & Eng'g Corp
1055 Stewart Ave
Garden City NY 4-11-20-29

Federal Shockmount Corp
1050 Washington Ave New York 56 NY 15

Federal Telecommunication Labs
Div IT&T 500 Washington Ave
Nutley NJ 2-3-17-18-29

Felsenthal & Sons Inc G
3500 N Kedzie Ave Chicago 18 Ill 18-29-30

Ferrotron Electronics Co
693 Broadway New York 12 NY 7-32

Flight Research Inc
P O Box 1-F Richmond 1 Va 10

Fluidyne Eng'g Corp
425 N 7 St Minneapolis 6 Minn 4-13

Fluke Mfg Co John
1111 W Nickerson St Seattle 99 Wash 7

Ford Instrument Co Div Sperry Rand Corp
31-10 Thomson Ave
Long Island City 1 NY 4-18-19-20-26-29-30

Fox Co Thomas T
95 Summit St Newark NJ 23-33-31

Frequency Standards Inc
P O Box 504 Asbury Park NJ 32

Gabriel Electronics Div Gabriel Co
135 Crescent Rd Needham Heights 91 Mass 2

Garrett Corp Aeresearch Mfg Co Div
9851 Sepulveda Blvd
Los Angeles 45 Calif 6-7-8-9-11

Gates Electronics Co
2090 Barnes Ave Bronx 62 NY 7-8-9-13

General Bronze Corp
711 Stewart Ave Garden City NY 2-31-35

General Communication Co
677 Beacon St
Boston 15 Mass 18-31-32-33-34

General Controls Co
801 Allen Ave Glendale 1 Calif 3-4-13-20

General Electric Co Dist Assemblies Dept
41 Woodford Ave Plainville Conn 7

General Devices Inc
P O Box 253 Princeton NJ 20-26-33-34

General Electric Co
Communication Products Dept
P O Box 1122 Syracuse NY 33-31

General Electric Co
Heavy Mtl Electronic Equip Dept
Syracuse NY 18-20-22-25-26-30-81-33-34

General Electric Co Specialty Control Dept P O Box 812 Waynesboro Va	4	Inertia Switch 527 Lexington Ave New York 17 NY	19-20-21	Lenkurt Electric Co 1105 County Rd San Carlos Calif	8
General Mills Inc Mechanical Div 1620 Central Ave Minneapolis 13 Minn	18-20-26-35	Inaco Co Div Harry Controls Hollis St Groton Mass	13	Levinthal Electronic Products Inc 3180 Hanover St Palo Alto Calif	31
General Precision Lab Inc 21 N Santa Anita Ave Pasadena 8 Calif	13-29-31	Instrument Corp of Fla P O Box 1226 Bldg 14 Melbourne Fla	33-34	Lirascope Inc 805 Western Ave Glendale Calif	18-29-30
General Precision Lab Inc 63 Bedford Rd Pleasantville NY	29	International Business Mach 590 Madison Ave NY 23 NY	3-13-17-18-29-31	Link Aviation Inc Binghamton NY	13-18
General Railway Signal Co P O Box 600 Kuchester NY	16-19-25-29-30	Int Equip Co 1284 Soliers Field Rd Boston 35 Mass	13	Linlar Inc 4101 San Fernando Rd Glendale 4 Calif	7-8-9-14-27
General RF fittings Inc 702 Beacon St Hutton 15 Mass	2	International Radiant Corp 111 New York Ave Westbury NY	13	Liquidomert Corp 41-03 35 St Long Island City 1 NY	13
Geneco Inc 2233 Federal Ave Los Angeles 64 Calif	13-14	International Research Associates 2221 Warwick Ave Santa Monica Calif	7-9-11	Liton Industries of Calif 336 N Foothill Rd	3-6-7-9-16-18-19-20-21
Geotechnical Corp 3712 Hangar Dr Dallas 9 Texas	26	Interstate Electronics Corp 707 E Vermont Ave Anaheim Calif	26	Loral Electronics Corp 825 Bronx River Ave New York 72 NY	29-31-33
Gianini & Co G M 918 E Green St Pasadena Calif	4-6-11	Iron Fireman Mfg Co Electronics Div 2538 S E 9 Ave Portland 2 Ore	6	Lord Mfg Co 1635 W 12 St Erie 6 Pa	15
Hamilton Standard Electronics Dept Main St Broad Brook Conn	3-4-9-18-19-20-31-35	Isolantite Mfg Corp Warren Ave Stirling NJ	1	Lytic Eng'g & Mfg Co 1404 San Mateo Blvd S E Albuquerque New Mex	4-19
Good Electric Corp Natick Mass	13	Jack Scientific Instrument Co Bill 143 Cedros St Solana Beach Calif	13	McMillan Industrial Corp Brownville Ave Ipswich Mass	1
Goodyear Aircraft Corp 1210 Mansillon Rd Akron 15 Ohio	13-20-24-29-31	Jackson Electronics Inc 23 Woodcrest Rd West Chester Pa	3-19	Mack Electronics Div Inc 1000 S 2 St Plainfield NJ	7-9-17-18-20
Gulfin Electric & Mfg Co 2921 W Olive Ave Burbank Calif	33-34	Jacoba Instrument Co 4718 Bethesda Ave Bethesda 14 Md	18-20-24-26-29-35	Madigan Corp 526 Mineola Ave Carle Place NY	2-7-8-9-13-19-20-21-26-27-29-30-33-34-35
GTS Instrument Co 811 Boylston St Boston 16 Mass	18-24	Jarvis Electronics Corp 1140 Cherry St Winnetka Ill	29-33-34	Magnavox Corp 2131 Bucter Rd Ft Wayne Ind	2-7-10-16-17-18-22-27-29-30-31-33-34
Granger Associates 965 Commercial St Palo Alto Calif	1-2-13-31-32-33-34	Jefferson Electronic Products Corp 322 State St Santa Barbara Calif	7-8-9-13	Magnecord Div Midwestern Instruments Inc 1101 S Kilbourn Ave Chicago 24 Ill	12
Gray Research & Development Co Hilliard St Manchester Conn	23	Johnson Aircraft Engrg Co Geophysical Services Div P O Box 10 Morristown NJ	13-24-26-31	Magnesium Products of Milwaukee Inc 748 W Virginia St Milwaukee 4 Wisc	1
Greenleaf Mfg Co Div Mandrel Industries 7814 Maplewood Industrial Ct St Louis 17 Mo	6	Johnson-Williams Inc 3925 Park Blvd Palo Alto 15 Calif	14	Magnetic Amplifiers Inc 632 Tinton Ave New York 55 NY	3-7-9-13-14-18-20-24-29-30
Green Rectifier Co 1-10 30 St Fairlawn NJ	7-9	J-V-M Engrg Co 4633 S Lawndale Ave Lyons Ill	31-32	Magnetic Circuit Elements Inc 3722 Park Pl Monroe Calif	7
Greer Hydraulics Inc N Y Int'l Airport Jamaica 30 NY	13	Kahn & Co 541 Windsor St Hartford 1 Conn	4-7-13-20	Magnetic Controls Co 6403 Cambridge St Minneapolis 16 Minn	7-8-9
Green Industries Inc Electronic Products Div 9701 Reading Rd Cincinnati 15 Ohio	13-28-30-31-33	Kaiser Aircraft & Electronics Corp Toledo Electronics Div P O Box 437 Toledo Ohio	13-24-31	Magnetic Research Corp 3160 W El Segundo Blvd Hawthorne Calif	7-8-9-26
Guardian Electric Mfg Co 1621 W Walnut St Chicago 12 Ill	4	Kauko & Co 1632 Pine Blvd Santa Monica Calif	13-11	Mallory & Co Inc P R 42 S Gray St Indianapolis 6 Ind	7-29-33
Gulton Industries Inc 212 Durham Ave Metuchen NJ	2	Kay Electric Co 14 Maple Ave Pine Brook NJ	13	Maryland Electronic Mfg Corp 5009 Calvert Rd College Park Md	25-26-30-32
Gyro Electronic Co 325 Canal St New York 14 NY	21	Kearfott Co Inc 1878 Main Ave Clifton NJ	5-6-14-19-20-29	Matchless Electric Co 1700 Washington Blvd Chicago 12 Ill	28
Hallmore Electronics Co 8552 Brookhurst Ave Anaheim Calif	3-7-13-20-24-26-32	Kearfott Co Inc 1484 Oxnard St Van Nuys Calif	1-2-13-26-31	Maurer Inc J A 37-03 31 St Long Island City 1 NY	7-10
Haller Raymond & Brown Circleville Rd	16-17-18-19-20-21-22-23-24-25-26-27-28-29-30-31-32-33-34-35	Kelley Instruments Inc 12415 Euclid Ave Cleveland 6 Ohio	13	Maxxon Corp W L 475 10 Ave New York 18 NY	2-18-20-26-29-31
Hall-Scott Inc 2850 N Ontario St Burbank Calif	7-21-26-33	Kelsey-Hayes Co 3600 Military Ave Detroit 32 Mich	4	MB Mfg Co Div Textron Inc P O Box 1825 New Haven 11 Conn	15
Hammarlund Mfg Co 461 W 34 St New York 1 NY	33	Kemlite Labs Inc 1819 W Grand Ave Chicago 22 Ill	25-33	Melpar Inc 3000 Arlington Blvd Falls Church Va	24-31
Harvey-Wells Electronics Inc North St Southbridge Mass	33-34	Kilde & Co Walter 1156 Main St Belleville 9 NJ	5	Meridian Metalcraft Inc 8739 S Millersgrove Dr Whittier Calif	1
Hastings-Raydist Inc Newcomb Ave Hampton Va	22-29-30	Kincox-Hallen Div Electromation Co 1618 18 St Santa Monica Calif	18-22-29	Merx Eng'g Inc 200 S Harding St Indianapolis Ind	13
Hazeltine Electronics Div Hazeltine Corp 59-25 Little Neck Pkwy	7-13-16-17-18-20-22-23-24-25-26-29-30-31-32-33-34	Kinc Electric Equipment Co 6123 Inman Ave Cleveland 5 Ohio	13	Metal Specialty Products Corp 27-01 Brooklyn Queens Expressway W Woodside 77 NY	1-4-7-13-21-33
Heath Co 305 Territorial Rd Benton Harbor Mich	33-34	Kinco Electronics Co Inc 40 Marlledale Rd Tuckahoe NY	19-32-33-31	Microwave Eng'g Labs Inc 943 Industrial Ave Palo Alto Calif	17-20-25-26-29-31-32-33-35
Heleo Products Corp 7832 Balboa Blvd Van Nuys Calif	14	Kingston Electronic Corp North St Medfield Mass	13	Midwestern Instruments P O Box 7186 Tulsa Okla	7
Henrie Products Corp 2514 S 3 St Ironton Ohio	15	Kistler Instrument Corp 15 Webster St N Tonawanda NY	13-14	Milgo Electronic Corp 7601 N W 37 Ave Miami 47 Fla	12-18
Hewson Co 445 Broad St Newark 2 NJ	13	Kilimogren Optical Corp 147 King St Northampton Mass	21	Minneapolis Honeywell Heiland Div 5200 E Evans Ave Denver 22 Colo	13
Hoffman Electronics Corp 3761 S Hill St Los Angeles 7 Calif	4-6-7-13-16-18-19-20-22-29-30-31-33-34-35	Kollman Instrument Corp Standard Coil Products 80-08 45 Ave Elmhurst 73 NY	4-13-14-18-20-29	Minn-Honeywell Regulator Co Davies Labs Div 10721 Hanna St Beltsville Md	11
Hogan Labs Inc 155 Perry St New York 14 NY	23	Kuss Industries Inc Tacony & Lewis Sta Philadelphia 24 Pa	27-33-34	Minn-Honeywell Boston Div 1400 Soldiers Field Rd Boston 35 Mass	3-6-9-13-14-19-20
Holland Electronics 72 E 53 St Brooklyn NY	7-9	Laboratory Fur Electronics Inc 75 Pitta St Boston 14 Mass	13-19-25-29-31	Minn-Honeywell Regulator Co Aeronautical Div 2600 Ridgway Ave Minneapolis 13 Minn	3-4-6-13-14-16-18-19-20-29-35
Hoover Electric Co 2100 S Stoner Ave Los Angeles Calif	4-13-19-20-21	Land-Air Inc 7414 W Wilson Ave Chicago 31 Ill	16-25-27	Miskella Infra-Red Co E 73 & Grand Ave Cleveland 4 Ohio	1
Hoover Electronics Co Instrumentation Div 1122 C San Mateo S E Albuquerque N Mex	7	Langevin Mfg Corp 47-37 Austell Pl Long Island City 1 NY	7-27	Missionics Inc P O Box 716 Melbourne Fla	18-19-20-24-26-30-31
Hoover Electronics Co 112 W Timonium Rd Timonium Md	13-26	Lansing Sound Inc James B 8249 Casitas Ave Los Angeles 33 Calif	14	Missouri Research Labs Inc 2109 Locust St St Louis 3 Mo	14-29
Houston Fearless Div Color Corp of America 11801 W Olympic Blvd Los Angeles 64 Calif	26	La Pointe Industries Inc 155 W Main St Rockville Conn	1-2	Mitchell Industries Inc Municipal A P P O Box 17 Mineral Wells Texas	2-3-19-29-33-34
Hughes Aircraft Co Florence & Teale Sta Culver City Calif	29	Lavoie Labs Inc Matawan-Freehold Rd Morganville NJ	27-31-32	Model Eng'g & Mfg Inc 50 Frederick St Huntington Ind	7-8-27-33-34
Hughes Products Hughes Aircraft Co 5340 W 104 St Intl Airport Sta Los Angeles 45 Calif	18	Lawn Electronics Co E Freehold Rd Freehold NJ	7-9	Moore Associates Inc 2628 Spring St Redwood City Calif	14-33-31
Humphrey Inc 2505 Canon St San Diego Calif	6-11-19-20	Leaf Inc 3171 S Rundy Dr Santa Monica Calif	2-3-6-16-19-20-21-29-33-34	Moran Instrumnt Corp 170 E Orange Grove Ave Pasadena 3 Calif	13-22
Industrial Control Co 805 Albin Ave Lindenhurst I.I NY	18	Lee Electric & Mfg Co 2806 Clearwater St Los Angeles 30 Calif	7-8	Motoresearch Co 1600 Junction Ave Racine Wisc	7-9
Industrial Electronics Inc 8060 Wheeler St Detroit 10 Mich	7	Lehigh Valley Electronics Engrg & Mfg Co 215 S 3 St Allentown Pa	13	Motorola Communications & Electronics Inc 4501 W Augusta Blvd Chicago 51 Ill	31-32
Industrial Research Labs Div Aerona Mfg Corp Hilltop & Frederick Rd Baltimore Md	7-20	Leland Electric Co Div American Machine & Foundry Co 1501 Webster St Dayton 1 Ohio	7-8-9	Muirhead Instruments Inc 677 E Ave New York 22 NY	9-21
Industrial TV Inc 368 Lexington Ave Clifton NJ	22	Leland Electric Co Aircraft Products Plant 740 E National Rd Vandalia Ohio	5-7-8-9-13	Multi-Amp Corp 465 Lehigh Ave Union NJ	9-13

Munston Mfg & Service Inc Beech St Islip NY	33-34	Power Supplies Inc 1005 Olive St Highland Ill	7-8-9	Rue Products 1628 Venice Blvd Venice Calif	7-8-9-13-34
Mutual Electronic Industries Corp 85 Beechwood Ave New Rochelle NY	4-19-20-21	Power Transformer Co 91 Edison Pl Newark 5 NJ	7	Sanders Associates 95 Canal St Nashua NH	3-6-17-19-20-29-31
Nader Mfg Co 2661 S Myrtle Ave Monrovia Calif	9	Precision Apparatus Co 70-31 84 St Glendale 27 LI NY	13	Saratoga Industries Congress & Ballston Aves Saratoga Springs NY	7-9
National Aeronautical Corp Commerce Dr Ft Washington Pa	2-16-29-33	Premax Products Div Chisholm-Ryder Co College & Highland Aves Niagara Falls NY	1-2	Schaffner Air Industries 290 N Henry St Brooklyn 22 NY	13
National Aircraft Corp 3411 Tolane Ave Burbank Calif	4-7-9-20-24	Press Wireless Labs Inc 25 Prospect Pl W Newton 65 Mass	23	Schutte & Koerting Co Cornwells Heights Bucks Co Pa	13
Navigation Devices Inc 616 Security Mutual Bldg Box 1107 Binghamton NY	3	Prodlin Inc 307 Bergen Ave Kearny NJ	2	Seaboard Electric Products Corp 417 Canal St New York 13 NY	4-19-29-30
Nevada Air Products Co PO Box 2472 Reno Nev	18-18-20-25-26-29-30-31-33-34	Production Research Corp Thornwood NY	2-13	Seg Electronics Co Inc 1778 Flatbush Ave Brooklyn 10 NY	7
Newcomb Spring Corp 177 E Hawthorne Ave Valley Stream NY	1	Protectowire Co Washington St Hanover Mass	3	Seismograph Service Corp 6200 E 41 St Tulsa 1 Okla	19-29-30-33-34
New York Mfg & General Supply Co 10-38 Jackson Ave Long Island City 1 NY	28	PSG Applied Research Ltd 1500 O'Connor Dr Toronto 16 Canada	18-29-30	Semcom 262 E 16 St Paterson 4 NJ	7-9-13
Nje Corp 345 Carnegie Ave Kenilworth NJ	7-8-9	Pye Canada Ltd 82 Northline Rd Toronto 16 Ontario Canada	18-33-34	Servo Corp of America 2020 Jericho Turnpike New Hyde Park NY	18-20-29-30-33-35
Non-Linear Systems Inc Del Mar Airport Del Mar Calif	13	Pye Corp of America 1149 Raritan Ave Highland Park NJ	16-33-34	Servomechanisms Inc 12500 Aviation Blvd Hawthorne Calif	5-4-7-9-13-14-18-19-20-29-35
Norden-Ketay Corp Commerce Rd Stamford Conn	6-13-14-18-20-24-29-31-35	Pye Telecommunications Ltd Newmarket Rd Cambridge England	25-30-33-34	Servonics Inc 822 N Henry St Alexandria Va	18-21
North American Instruments Inc 2420 N Lake St Altadena Calif	9-11-14	Q O S Corp Bronx Blvd at 216 St New York 67 NY	35	Servo-Tek Products Co 1086 Goffe Rd Hawthorne NJ	13
North Electric Co 553 S Market St Galion Ohio	27	Radar Design Corp 2360 James St Syracuse 12 NY	13	Sierra Electronic Corp 3485 Hohannon Dr Menlo Park Calif	13
Northern Radio Co 143 W 22 St New York 11 NY	23	Radiation Inc PO Box 37 Melbourne Fla	20-26-29	Sigmatron Electronic Group Ltd Queens Rd Thames Ditton Surrey England	13-18-24
Northrop Aircraft Inc 1101 E Broadway Hawthorne Calif	13-20	Radio City Products Co Centre & Glendale Sts Easton Pa	19-20-29-30-32-33-34	Sinuous Electric Co 5200 W Kinzie St Chicago 44 Ill	13
Nuclear-Electronics Corp 2632 W Cumberland St Philadelphia 32 Pa	7-9	Radio Corp of America West Coast Electronic Prods Dept 11819 W Olympic Blvd Los Angeles 64 Calif	31	Skatron Electronics & TV Corp 180 Varick St New York 14 NY	18-23-24-25-29-30-31-35
Nuclear Products-Erco Div ACF Industries Inc Riverdale Md	9-13-18-24-33	Radio Corp of America Electron Tube Div Harrison NJ	1-2-3-4-5-10	Soderberg Mfg Co 628 S Palm Ave Alhambra Calif	29
NYT Electronics Inc 2979 N Ontario St Burbank Calif	7-9	Radio Frequency Labs Inc Hoonton NJ	7-9	Solartron Electronic Group Ltd P O Box 1717 Melbourne Fla	18
Olympic Radio & TV 3401 3R Ave Long Island City 1 NY	11-29-30-31-32-33-34	Radioplane Div Northrop Aircraft Inc 8000 Wopdley Ave Van Nuys Calif	21	Specialties Inc Skunks Misery Rd Syosset LI NY	11-18
Omega Instrument Co 103 E Altadena Dr Altadena Calif	20	Radionics Inc PO Box 186 Cockeysville Md	9-13	Specialty Eng'g & Electronics Co 79 Clifton Pl Brooklyn 38 NY	18-20-25-29-31-34
Opad Electric Co 69 Murray St New York 7 NY	7-8-9-13	Radio Receptor Co Div GIC 240 Wythe Ave Brooklyn 11 NY	32	Spectral Electronics Div Carrier Corp 1704 S Del Mar Ave San Gabriel Calif	29
Ordinance Eng'g Corp P O Box 460 Frederick Md	26	Rahm Instruments Inc 237 Lafayette St New York 12 NY	6-14-19-20	Sperry Gyroscope Co Sunnyside Dev Center 294 Commercial St Sunnyside Calif	6-18-19-20-29
O & S Research Inc 1811 Bannard St Riverton NJ	35	Ramo-Woodriddle Corp Electronic Instrumentation Div PO Box 8405 Denver 10 Colo	7-9-11-13-24-26-31-32	Sperry Gyroscope Co Great Neck NY	20-29-30-31-32-33-34-35
Otis Elevator Co Electronic Div 35 Ryerson St Brooklyn 5 NY	20-24-26-29-30-32	Rauland-Rorg Corp 3535 W Addison St Chicago 18 Ill	7-8-9-15-27-33-34	Sperry Gyroscope Co Microwave Electronics Div Great Neck NY	1-2-13-36
Pace Eng'g Co 6914 Beck Ave N Hollywood Calif	14	Raybestos-Manhattan Inc 61 Willett St Passaic NJ	15	Sperry Gyroscope Co Marine Div Roosevelt Field Mineola NY	6-13-18-22-31
Pacific Scientific Co P O Box 22019 Los Angeles 22 Calif	4-5-6-20	Raytheon Mfg Co Maynard Lab Thompson St Maynard Mass	17-29-31	Spivey Inc James S 4908 Hampden Lane Washington 14 DC	4-13-27
Packard Bell Electronics Corp 12333 W Olympic Blvd	7-11-13-18-19-20-22-23-24-26-29-31-32-33-34-35	Raytheon Mfg Co Commercial Equip Div 100 River St Waltham 64 Mass	31-33-34	Sprague Electric Co Marshall St North Adams Mass	14
Palmer Inc M V 4002 Fruit Valley Rd Vancouver Wash	27	Raytheon Mfg Co 173 Cloverfield Blvd Santa Monica Calif	1-4-6-10-11-12-13-14-16-18-20-24-26-35	Springfield Enterprises 138-17 Springfield Blvd Springfield Gardens 13 NY	33-34
Parsons Co Ralph M Electronics Div 151 S De Lacey Ave Pasadena Calif	17-22-26-32	Reed & Reese Inc 717 N Lake Ave Pasadena 6 Calif	6-14	Stanil-Hoffman Corp 921 N Highland Ave Hollywood 38 Calif	11
Patterson Mow Div Universal Winding Co 50-25 Van Wyck Expressway Jamaica 18 NY	24	Reeves Instrument Corp Roosevelt Field Garden City NY	6-20-26-31	Standard Electrical Products Co 2240 E 3 St Dayton 3 Ohio	7
Pearce Simpson Inc 3023 Coral Way Miami 34 Fla	33-34	Reliance Electric and Engg Co 24701 Euclid Ave Cleveland 17 Ohio	13	Stanley Aviation Corp 2501 Dallas St Denver Colo	5-17
Peer Inc 1200 Milton St Benton Harbor Mich	19-21-30-34	Remington Rand Univac Div Sperry Rand Corp Univac Park St Paul 16 Minn	1	Statham Labs Inc 12401 W Olympic Blvd Los Angeles 64 Calif	13-14
Peerless Electrical Products 1515 S Manchester Ave Anaheim Calif	9	Republic Aviation Corp Farmingdale LI New York	2-7-13-18-20-35	Statistical Instr Co 330 Haven Ave New York 33 NY	9-13-14-18-21-24-26-33
Peerless Photo Products Inc Shoreham LI NY	23	Revel Eng'g Corp 330 S Fair Oaks Ave Pasadena Calif	9-26-31-32	Stavil Eng'g Inc 11 S Route 22 Plainfield NJ	18-19-20-21-26-29-30-31-32-33-34
Perkin Eng'g Corp 345 Kansas St El Segundo Calif	7-8-9	Revere Corp of America N Colony Rd Wallingford Conn	14	Stewart Warner Electronics Div 1800 N Kostner Ave Chicago 51 Ill	28-32-33-34-35
Permotlux Products Co 4101 San Fernando Rd Glendale 4 Calif	7-8-9-14-27	Rheem Mfg Co Electronics Div 7777 Industry Ave Downey Calif	7-13-24-26	Stratford Corp 44 W 28 St New York 1 NY	4-38
Peschel Electronics Inc 13 Garden St New Rochelle NY	7-8	Richardson-Allen Corp 116-15 15 Ave College Point 56 NY	7	Stromberg-Carlson Div General Dynamics Corp 100 Carlson Rd Rochester 3 NY	13
Petroff Corp Peter A 127 Water St New York 5 NY	1	Rich Electronics Inc 212 NW 8 Ave Miami 33 Fla	1-3-4-13-20-26	Strong Electric Corp 87 City Park Ave Toledo 1 Ohio	7-8
Phaestron Instrument & Electronic Co 151 Pasadena Ave S Pasadena Calif	2	Riverbank Labs Engg Dept P O Box 65 Geneva Ill	9	Suffolk Products Corp Woodbine & Scudder Ave Northport NY	31
Phileo Corp Tiora & C Sts Philadelphia 24 Pa	3-12-20-26-30-31-33-34-35	Robinson Aviation Inc Teterboro NJ	15	Sun Electric Corp Harlem & Avondale Ave Chicago 31 Ill	7-9-13
Phileo Corp Govt & Industrial Div 4700 Wisanahickon Ave	3-4-16-18-19-20-21-22-23-24-26-27-29-30-31-33-34-35	Rossmount Engg Co 9424 Lyndale Ave St Minneapolis 20 Minn	14	Superior Electric Co 88 Laurel St Bristol Conn	7-9
Piezo Products Co Whitney St Sherborn Mass	4	Royco Instruments Inc 874 Fabian Way Palo Alto Calif	13	Sylvania Electric Products Inc 1740 Broadway New York 19 NY	18-24-28-29-31-33
Plastic Inc P O Box 561 Poteau Okla	28	RS Electronics Corp P O Box 368 Sta A Palo Alto Calif	31-33	Sylvania Electric Products Co Electric Systems Div 100 First Ave Waltham 54 Mass	2-17-18-22-24-29-31-32-33-34-35
Pneumafil Corp 2516 Wilkinson Blvd Charlotte 8 NC	15	Rubbercraft Corp of Calif 1800 W 220 St Torrance Calif	15	Syston Corp 2055 Concord Blvd Concord Calif	22
Polairad Electronics Corp 43-20 34 St Long Island City 1 NY	20-26-30-31-32-33			Taber Instrument Corp 111 Gundry St N Tonawanda NY	14
Polyphase Instrument Co E 4 St Bridgeport Pa	14				
Polytronics Inc 7826 Westmore Rd Rockville Md	27				
Potter Aeronautical Corp Route 22 Union NJ	18-14				

Tuilet Radio & TV Co
27-05 Brooklyn-Queens Expressway
W Woodside 77 NY 1-4-7-13-21-33

Tu-Mar Inc
11571 W Jefferson Blvd Culver City Calif 2

Technical Appliance Corp
1 Taco St Sherburne NY 1-2-26

Technical Electronics Corp
1059 Ince Blvd Culver City Calif 13

Technical Material Corp
100 Fenimore Rd Mamaroneck NY 1-21-33-34

Technical Oil Tool Corp
1057 N La Brea 13-16-20-22-24-29-31-32

Los Angeles 38 Calif

Telechrome Mfg Corp
28 Ranick Dr
Amityville LI NY 7-10-13-26-31-35

Telectro Industries Corp
35-18 37 St Long Island City 1 NY
3-4-7-8-9-11-12-13-16-17-18-19-20-21-22-24-25-26-27-29-30-31-32-33-34

Tele-Dynamics Inc
21 & Parkside Ave Philadelphia Pa 26

Telemarine Communications Co
140 W Broadway New York 13 NY 25-33-31

Telephonics Corp
Park Ave Huntington LI NY 27-33-34

Telerad Mfg Corp
Route 69 Flemington NJ 9

Telerad Mfg Corp
1440 Broadway 7-20-26-31-32-33-34
New York 18 NY

Teletronic Labs Inc
1875 W Rosecrans Ave Gardena Calif 4

Telex
1633 Euatia St St Paul 1 Minn 14

Tei-Instrument Electronics Corp
728 Garden St Carlstadt NJ 9

Telkor Inc
Box 106 Elyria Ohio 7

Temco Aircraft Corp
P O Box 6191
Dallas 2 Texas 10-11-13-20-26-35

Tempo Instrument Inc
240 Old Country Rd Hicksville NY 4

Tevo Insulated Wire
108 E Prospect Ave Burbank Calif 1

Texas Instruments Inc
6000 Lemmon Ave
Dallas 9 Texas 7-10-18-19-20-26-27-31-34-35

Theta Instrument Corp
48 Pine St E Paterson NJ 13

Thompson Products Inc Electronics Div
2106 Clarkwood Rd
Cleveland 8 Ohio 4-9-19-20

Thor Ceramics Inc
225 Belleville Ave Bloomfield NJ 1

Times Facsimile Corp
540 W 58 St New York 19 NY 23

Tupper Mfg Co Inc
147-12 Liberty Ave Jamaica 35 NY 14

Topp Industries Inc
8907 Wilshire Blvd
Beverly Hills Calif 7-14-18-19-24-25-29-33-34

Torwico Electronics Inc
1050 Morris Ave Union NJ 7-9

Transco Products Inc
12210 Nebraska Ave Los Angeles 25 Calif 2

Transdyne Corp
58-15 57th Dr Maspeth 78 NY 13

Transformer Technicians Inc
2608 N Cicero Ave Chicago 39 Ill 7

Transline Electronic Communication Co
95 Summit St Newark 8 NJ 23-27-33-34

Transual Engrs Corp
10401 W Jefferson Blvd
Culver City Calif 11-13-29-33

Tricraft Products Corp
1124 W Newport Ave Chicago 22 Ill 1

TV Specialty Co
350 W 31 St New York 1 NY 10

UAC Electronics Div
Universal Transistor Prods Corp
50 Bond St Westbury LI NY 7-8-9

Ultradyne Eng'g Labs
P O Box 3308
Albuquerque New Mex 7-8-9-13-14-26

United Aircraft Products Inc
1116 Bolander Ave Dayton 8 Ohio 4

United Control Corp
4540 Union Bay Pl Seattle 5 Wash 29

United Electric Controls Co
88 School St Watertown 72 Mass 4

United Electrodynamics
1200 S Marengo Ave Pasadena Calif 7-26-34

Universal Transistor Products Corp
88 Sylvester St Westbury LI NY 7-8-9

Univox Corp
102 Warren St New York 7 NY 1-4

U S Radium Corp
Morristown NJ 5-28

U S Recording Co
1347 S Capitol St Washington 5 DC 27

U S Time Corp
Waterbury Conn 3-4

Valpey Crystall Corp
1244 Highland St Holliston Mass 14

Vapor Heating Corp
80 E Jackson Blvd Chicago 4 Ill 4

Vero Mfg Co
2201 Walnut St
Garland Texas 4-7-8-9-13-19-20-21-26-33-34

Vectron Inc
1611 Trapelo Rd
Waltham 54 Mass 13-16-17-18-22-24-29-30-31-33

Vickers Inc Electric Products Div
1887 Locust St
St Louis 8 Mo 3-4-7-8-9-13-20-26

Victor RF & Microwave Co
36 W Water St Wakefield Mass 14

Virginia Electronics Co
River Rd B & O R R
Washington 16 DC 21-27-30-33-34

Vitro Corp of America
261 Madison Ave New York 16 NY 9

Voron & Co George
835 N 19 St Philadelphia 30 Pa 27-33-34

Wachne Inc
35 S St Clair St Dayton 2 Ohio 13-20

Waldorf Instrument Co Div F C Huyck & Sons
Park Ave 4-6-7-9-11-12-13-18-19-20-22-24-25-29-31

Huntington Station NY

Wallson Associates Ltd
963 Frelinghuysen Ave Newark 12 NJ 9

Waltham Horological Corp
355 Lynnway Lynn Mass 1

Waltham Precision Instru Co
221 Crescent St Waltham 54 Mass 6

Wanz Labs Inc
37 Hurley St Cambridge 41 Mass 13-18

Warren Corp J C
21 Hanse Ave Freeport NY 12

Waterman Products Co
2445 Emerald St Philadelphia 25 Pa 13

Waugh Engg Co
7842 Burnet Ave Van Nuys Calif 13-14

Wavesguide Inc
14837 Oxnard St Van Nuys Calif 1-2

Webster Electric Co
1900 Clark St Racine Wis 27

Westbury Electronics Inc
300 Shames Dr Westbury NY 7

West Coast Electronics Co
9261 W 8 St
Beverly Hills Calif 26-32-33-34

West Coast Research Corp
2371 Westwood Blvd
Los Angeles 84 Calif 4-7-13-18-20-21-24-26-29-30

Western Gear Corp Electro Products Div
132 W Colorado St
Pasadena 1 Calif 7-8-9-13-20

Westgate Lab Inc
506 S High St Yellow Springs Ohio 18-20-24

Westinghouse Electric Co Div Air Arm Div
P O Box 746 Friendship Intl A P
Baltimore Md 3-14-18-31-35

Westinghouse Electric Corp
P O Box 868 Pittsburgh 80 Pa 3-6-7-9-29-31

Wheeler Insulated Wire Co
150 E Aurora St Waterbury 20 Conn 27

White Dental Mfg Co SS Industrial Div
10 E 40 St New York 16 NY 4-19-21

White & Sons Wilfrid O
178 Atlantic Ave Boston 10 Mass 30-33-34

Wincko Eng'g Co
255 Halstead St Pasadena Calif 14

Wickes Eng'g & Construction Co
12 St & Ferry Ave Camden 4 NJ 25

Wilcox Electric Co
1400 Chestnut St Kansas City 27 Mo 29-30

Wilmar Mfg Co
1110 Truman Rd Kansas City Mo 19

Wincharger Corp
E 7 & Division St Sioux City 2 Iowa 7-8-9

Winder Aircraft Corp of Fla
P O Box 2897 Drane Fld
Lakeland Fla 1-2-4-5-7-8-13-15-20-24-27

Winslow Co
701 Lehigh Ave Union NJ 13

WRL Electronics Inc
3415 W Broadway Council Bluffs Iowa 34

Young Spring & Wire Co Gansett Div
801 S Main St Burbank Calif 27-33-34

Zenith Plastics Co
1600 W 135 St Gardena Calif 1

10—BATTERIES, CHARGERS & ACCESSORIES

Batteries, dry cell 1

Batteries, hearing aid 2

Batteries, lead-acid 3

Batteries, mercury 4

Batteries, nickel alkaline 5

Batteries, nickel cadmium 6

Batteries, nuclear 7

Batteries, silver 8

Batteries, silver zinc 9

Batteries, standard cell 10

Batteries, storage 11

Batteries, storage sumpfill 12

Batteries, transistor 13

Battery adaptors 14

Battery chargers 15

Battery charging regulators 16

Battery testers 17

Fuel Cells 18

Accurate Engg Co
2005 Blue Island Ave Chicago 8 Ill 15

Arme Battery Corp
200 Henry St Stamford Conn 1-2-13

Acme Electric Corp
Water St Cuba NY 15

Adler Electronics Inc
1 Lefevre Lane New Rochelle NY 15-16

Airdesign Corp
241 Fairfield Ave Upper Darby Pa 15

Airmec Ltd
High Wycombe Buckinghamshire England 15

American Machine & Foundry Co
Defense Products Group 1101 N Royal St
Alexandria Va 9-14

American Rectifier Corp
95 Lafayette St New York 13 NY 15-16

American Speedlight Corp
63-01 Metropolitan Ave
Middle Village 79 NY 15

Automatic Electric Co
1033 W Van Buren St Chicago 7 Ill 15

American Television & Radio Co
300 E 4 St St Paul 1 Minn 15

Automatic Switch Co
Hanover Rd Florham Park NJ 15

Auto Test Inc
600 S Michigan Ave Chicago 5 Ill 16-17

Auto Test Inc
411 W 8th St Neillville Wisc 17

Hach-Simpson Ltd
1255 Brydges St London Ont Canada 17

Barnett Instrument Co
Kraft St Clarksville Tenn 17

Bogus Electric Mfg Co
52 Iowa Ave Paterson 3 NJ 15-16

Bowers Battery & Spark Plug Co
P O Box 1262 Reading Pa 3-11

Bright Star Industries
600 Getty Ave Clifton NJ 1

British Electronic Sales
Oakland Gardens
Flushing 64 NY 1-2-4-6-12-13

Bundy Electronics Corp
171 Fabyan Pl Newark 12 NJ 15-16

Burgess Battery Corp
Ft of Exchange Freeport Ill 1-2-13

Burgess Battery Co
415 Huttrey St Niagara Falls Ont Canada 1-2

Camera Equipment Co
315 W 43rd St New York 36 NY 1-6-15

Carol Electronics Corp
315 W Stephen St Martinsburg W Va 15

Central Scientific Co of Canada Ltd
146 Kendal Ave Toronto 4 Ont Canada 1

Chicago Industrial Instrument Co
865 N Sangamon St Chicago 22 Ill 17

Christie Electric Corp
3410 W 67 St Los Angeles 43 Calif 15-17

Consolidated Diesel Electric Corp
880 Canal St Stamford Conn 15

Control Corp
718 Central Ave N E
Minneapolis 14 Minn 15-16

Cook Co Frank R
36 S Santa Fe Dr
Denver 23 Colo 1-8-9-11-12-13

Cornell-Dubilier Electric Corp
333 Hamilton Blvd 5 Plainfield NJ 15

Dittmore-Freimuth Corp
2517 E Norwich St Milwaukee 7 Wisc 14

Downing Crystal Co
191 Shaffer Ave Westminster Md 14

Dresser Electric Co
942 E Larned Detroit 7 Mich 15

D & S Mfg Co
424 Burk St Ridley Park Pa 7

Eagle-Picher Co
American Bldg Cincinnati 1 Ohio 6-9

Ely Sales Co
130 Lafayette St New York 13 NY 14

Elcor Inc Div Jacobs Co
517 W Walnut St Okeslay Ill 16

Electric Auto-Lite Co
Champaign St Toledo Ohio 3-11-12

Electric Products Co
1725 Clarkstone Rd Cleveland 12 Ohio 13-16

Electric Regulator Corp
Pearl St Norwalk Conn 15-16

Electronic Batteries Inc
28-34 35 St Brooklyn 32 NY 12

Electronic Instrument Co
84 Withers St Brooklyn 11 NY 17

Electronic Measurements Corp
625 Broadway New York 12 NY 15

Electro Products Labs Inc
4501 N Ravenswood Ave Chicago 40 Ill 16

Elgin National Watch Co
107 National St Elgin Ill 7-9

Emerson Radio & Phonograph Corp
14 & Coles Sts Jersey City 2 NJ 15

Epro Products Inc
2500 Atlantic Ave Brooklyn 7 NY 15

Ercona Corp
551 Fifth Ave New York 17 NY 9-15

Ernat & Affiliates W Arthur
825 Hayes Ave Racine Wisc 15

Exide Industrial Div Electric Storage Battery Co
42 8 16 St
Phila 2 Pa 1-3-8-9-10-11-12-15-16-17

Fanstel Metallurgical Corp
2200 Sheridan Rd N Chicago Ill 15

Felsenthal & Sons Inc G
3500 N Kedzie Ave Chicago 18 Ill 18

Fox Products Co
4720 N 18 St Phila 41 Pa 15-16-17

Gates Electronics Co
2090 Barnes Ave Bronx 62 NY 15

General Cement Mfg Co Div Tectron Inc
400 Wyman St Rockford Ill 14

General Electric Co
Apparatus Div
1 River Rd Schenectady 5 NY 15

General Electric Co	
Specialty Control Dept	
P O Box 812 Waynesboro Va	15
General Nuclear Corp	
550 5 Ave New York 22 NY	15-16
General Railway Signal Co	
P O Box 600 Rochester NY	15-16
General Scientific Equipment Co	
7516 Limekiln Pike Phila 50 Pa	15-17
Georator Corp	
P O Drawer 472 Manassas Va	15
Gerst & Co Paul E	
4864 N Clark St Chicago 40 Ill	15-16
Goldak Co	
154 W Glenoaks Blvd Glendale 1 Calif	17
Gould National Batteries Inc Nicol Div	
Easthampton Mass	5-6-11-12
Gray Instrument Co	
200 E Church Lane Philadelphia 44 Pa	8-10
Green Rectifier Co	
1-10 30 St Fairlawn NJ	15-16-17
Gulton Industries Inc	
212 Durham Ave	
Metuchen NJ	5-6-10-11-12-13-15
Gyro Electronics Co	
325 Canal St New York 13 NY	15
Hal-Hen Co	
36-14 11 St Long Island City 8 NY	2-13-15
Haron Van Winkle Munning Co	
Church St Matawan NJ	15
Heath Co	
305 Territorial Rd Benton Harbor Mich	15-17
Hickok Electrical Instrument Co	
10514 Dupont Ave Cleveland 8 Ohio	17
Hoharr Hros Co	
Hobart Square E Troy 1 Ohio	15
Industrial Control Co	
805 Albin Ave Lindenhurst LI NY	17
Industrial Research Labs	
Div Aerona Mfg Corp	
Hilltop & Fredericks Rd Baltimore MD	17
Interelectronics	
2452 Grand Concourse	
New York 58 NY	11-12-13
Kahl Scientific Instrument Corp	
P O Box 1166 El Cajon Calif	17
Kato Engz Co	
1415 1 Ave Mankato Minn	16
Keystone Electronics Corp	
49 Bleecker St New York 12 NY	14
King Electric Equipment Co	
9123 Inman Ave Cleveland 5 Ohio	17
Knopp Inc	
1307 66th St Oakland 8 Calif	15
Kost Products Co	
2335 N Cicero Ave Chicago 29 Ill	14
Korsh Corp-Inet Div	
18435 Susana Rd Compton Calif	15-16-17
Lee Electric & Mfg Co	
2806 Clearwater St Los Angeles 39 Calif	15
Leland Electric Co Aircraft Products Plant	
740 E National Rd Vandalia Ohio	15
Lincoln Electric Co	
22801 St Clair Ave Cleveland 17 Ohio	15
Macnavas Co	
2131 Bueter Rd Ft Wayne 4 Ind	4-8-13
Magnetic Amplifiers Inc	
632 Tinton Ave New York 55 NY	16
Magnetic Research Corp	
3160 W El Segundo Blvd	
Hawthorne Calif	15
Mallory Battery Co Div P R Mallory & Co	
13300 Athens Ave Cleveland 7 Ohio	1-2-4-13
Mallory & Co Inc P R	
42 S Gray St Indianapolis 6 Ind	1-2-4-13-15
Marathon Battery Co	
840 Henrietta St Wausau Wis	1-2-13
Melco Products Inc	
301 5 Ave S Minneapolis 15 Minn	15
Model Eng'g & Mfg Inc	
50 Frederick St Huntington Ind	15
Model Rectifier Corp	
1065 Utica Ave Brooklyn 3 NY	15
Monaghan Co J J	
500 Alcott St Denver 4 Colo	16
National Carbon Co	
Div Union Carbide & Carbon Corp	
30 E 42 St New York 17 NY	1-2-4-10-13-16
Nicad Div Inc	
Easthampton Mass	5-6-11-12-13
Nickel Cadmium Battery Corp	
Pleasant St	
Easthampton Mass	2-5-6-9-11-12-13
NJE Corp	
345 Carnegie Ave Kenilworth NJ	15
Norma Hoffmann Bearings Corp Walker Div	
Hamilton Ave Stamford Conn	15
North Electric Co	
553 S Market St Galion Ohio	15
Olin Mathieson Chemical Corp Electrical Div	
275 Winchester Ave New Haven Conn	1
Opad Electric Co	
69 Murray St New York 7 NY	15-16-17
Paco Electronics Co Inc	
70-31 84th St Glendale 27 LI NY	15
Patterson Moos Div Universal Winding Co	
90-28 Van Wyck Expressway	
Jamaica 18 NY	1-2-7-13-18
Perkin Eng'g Corp	
845 Kansas St El Segundo Calif	15-16
Philco Corp Accessory Div "A"	
Allegheny Ave Philadelphia 34 Pa	1-4-13
Pioneer Gen-E-Motor Corp	
5841 W Dickens Ave Chicago 39 Ill	15
Power Supplies Inc	
1005 Olive St Highland Ill	15-16
Power Transformer Co	
91 Edison Pl Newark 5 NJ	16
Precise Development Corp	
2 Neil St Oceanside NY	14-15
Precision Apparatus Co	
70-31 84 St Glendale 27 LI NY	15
Pye Telecommunications Ltd	
Newmarket Rd Cambridge England	15
Radio Corp of America	
Electronic Tube Div Harrison NJ	1-2-15
Radio Kits Inc	
120 Cedar St New York 6 NY	17
Ray-O-Vac Co	
212 E Washington Ave	
Madison Wis	1-2-4-10-13
Raytheon Mfg Co Commercial Equip Div	
100 River St Waltham 54 Mass	15
Raytheon Mfg Co	
100 River St Waltham 54 Mass	15
Rectifier Eng'g Co	
1803 E 7 St Los Angeles 21 Calif	15-17
Republic Aviation Corp	
Farmingdale LI New York	15-16-17
Rheem Mfg Co Electronics Div	
7777 Industry Ave Downey Calif	15-16-17
Richardson-Allen Corp	
116-15 15 Ave College Point 56 NY	16
St Eloi Corp	
P O Box 607 Newtown Br	
Cincinnati 41 Ohio	1-12
Sanford Miller Co	
691 Bedford Ave Brooklyn NY	16
Saragoza Industries	
Congress & Ballston Aves	
Saratoga Springs NY	15-16
Schauer Mfg Corp	
4501 Alpine Ave Rossmoyne Ohio	15
Schrock Electrical Sales Corp	
1100 Madison Ave New York 28 NY	15
Sai Corp	
75 River Rd Nutley 10 NJ	15-16
Shurite Meters	
61 Hamilton St New Haven 8 Conn	17
Sonolone Corp	
P O Box 200-Saw Mill River Rd	
Elmsford NY	6
O S Cinema Supply Corp	
602 W 42 St New York 19 NY	6
Stancil-Hoffman Corp	
921 N Highland Ave Hollywood 38 Calif	16
Sun Electric Corp	
Harlem & Avondale Ave	
Chicago 31 Ill	15-17
Syntron Co	
263 Lexington Ave Homer City Pa	15
Teletro Industries Corp	
35-18 37 St Long Island City 1 NY	15-16
Telkor Inc	
Box 186 Elyria Ohio	15
Tracerlab Inc	
1601 Trapelo Rd Waltham 54 Mass	7
Trans-Sil Corp	
55 Honeck St Enzlewood NJ	7-13
Trans-Tel Corp	
910 N Orange Dr Los Angeles 38 Calif	15
Triplet Electrical Instrument Co	
Harmon Rd Bluffton Ohio	17
TV Specialty Co	
350 W 31 St New York 1 NY	1-6
Universal Motor Co	
1552 Harrison St Oakkosh Wis	15
U S Radium Corp	
Morristown NJ	8
U S Rubber Co	
1230 6 Ave New York 20 NY	4-17
Vicon Inc	
1333 Mesa Rd Colorado Springs Colo	15
Ward Leonard Electric Co	
19 Vernon NY	15
Western Coil & Electrical Co	
215 State St Racine Wis	11
Westinghouse Electric Corp	
P O Box 868 Pittsburgh 30 Pa	15
Wicks Electric & Construction Co	
12 St & Ferry Ave Camden 4 NJ	15-16
Willard Storage Battery	
246 E 131 St	
Cleveland 1 Ohio	3-9-11-12-15-17
Winder Aircraft of Fla	
P O Box 2397 Drane Fld Lakeland Fla	14-15
Yardney Electric Corp	
40 Leonard St	
New York 13 NY	9-11-12-13-15
Zenith Electric Co	
152 W Walton St Chicago 10 Ill	15

11—CABINETS, RACKS, PANELS & ACCESSORIES

Accessories, mounting	1
Bins	2
Boards, plug-in	3
Boxes	4
Boxes, storage	5
Cabinet covering	6
Cabinets, audio radio equip.	7
Cabinets, metal	8
Cabinets, plastic	9
Cabinets, wood	10
Cases, portable	11
Cases, transformer	12
Cases, tube	13
Chassis	14
Consoles	15
Dollies, equipment	16

Enclosures, speaker	17
Felt	18
Film finishes	19
Handles, leather	20
Housings, instrument	21
Housings, metal	22
Leatherette	23
Louvres, chassis ventilating	24
Panels, fibre	25
Panels, metal	26
Panels, plastic	27
Racks	28
Slides, chassis	29
Slides, equipment	30
Trays	31

A A Metal Products Inc	
154 Elliot St	
Brattleboro Vt	2-4-8-14-22-24-26-28
Abalon Precision Mfg Corp	
540 Casanova St	4-5-7-8-11-12-14
New York 59 NY	15-21-22-26-28-29-30
Accurate Electronics Corp	
169 S Abbe Rd SE Elyria Ohio	3
ACF Industries Nuclear Prods-Eroco Div	
48 Lafayette St Riverdale Md	7-8-28
Ackerman Engravers	
458 Broadway New York 13 NY	25-26-27
Acme Electronics Div NEA Service	
1200 W 3 St Cleveland 13 Ohio	8
Advance Industries Inc	
640 Memorial Dr Cambridge 39 Mass	17
Aerolite Electronics Corp	
227 Summit Ave Union City NJ	11
Aerovox	
740 Belleville Ave New Bedford Mass	14-26
Aetna Felt Co	
204 Centre St New York 13 NY	18
Ainslie Corp	
312 Quincy Ave Quincy 69 Mass	16
Aircraft Armaments Inc	
Cherry Tree Rd Box 126	
Cooksville Md	8-28
Airflo Instrument Co	
53 Addison Rd Glastonbury Conn	27
Allen Products Co	
12358 N Main St	
Irookton 64 Mass	5-6-11-14-15-28
Allied Eng'g & Production Corp	
2421 Rianding Ave Alameda Calif	9-16
Allied Engraving & Stamping Co	
17 Elm St Buffalo 3 NY	25-27
Allied Fabricating Corp	
1538 N Clyburn Ave	
Chicago 10 Ill	1-8-14-22-26
Alloy Metal Smiths Inc	
89 Commerce Rd Cedar Grove NJ	14-15-28
Altve Lansing Corp	
1515 S Manchester Ave Anaheim Calif	8-28
Amco Eng Co	
7333 W Ainslie St	1-6-7-8-14-15-16
Chicago 31, Ill	21-22-24-26-28-29-30-31
American Aluminum Co	
230 Sheffield St	
Mountainside Union NJ	11-17-21-22
American Brass Co	
414 Meadow St Waterbury 88 Conn	22
American Insulator Corp	
New Freedom Pa	9-27
American Lathesher Co	
250 W 57 St New York 19 NY	26
American Machine & Foundry Co	
Gen Eng Labs	
11 Bruce Pl Greenwich Conn	18
American Machine & Foundry Co	
Defense Products Group 1101 N Royal St	
Alexandria Va	8-15-21-26-28
Anchor Specialty Mfg Co	
300 Hollister Rd Teterboro NJ	8-10-26
Anderson & Sons	
N Elm St Westfield Mass	26
Antlab Inc	
6330 Proprietors Rd Worthington Ohio	15
Apex Coated Fabrics Co	
12 E 22 St New York 10 NY	23
Apollo Metal Works	
6651 S Oak Park Ave Chicago 38 Ill	26
Arcan Eastern Ltd	
P O Box 158 Sta C	
Hamilton Ont Canada	25-16
A R F Products Inc	
P O Box 57 Ranton NM	8-14-22-26
Argos Products Co	
301 Main St Genoa Ill	10-18
Armstrong Cork Co	
W Liberty St Lancaster Pa	18
Artisan Metal Works Co	
11400 Madison Ave	4-8-11-14-15
Cleveland 2 Ohio	16-21-22-24-26-31
Audio Accessories	
279 Broadway Amityville NY	27
Autel Electronics Co	
P O Box 225 Linden NJ	8-22-26
Autocrat Electronics Co	
5024 Elm St Skokie Ill	11
Auto Test Inc	
600 S Michigan Ave	
Chicago 5 Ill	4-8-11-14-21-22-26-31
Baltic Metal Products	
126 Sutton St Brooklyn 22 NY	7-8-14

Barnett Instrument Co
Kraft St Clarksville Tenn 21
Barrett Div Allied Chemical & Dye Corp
40 Rector St New York 6 NY 18-25-27
Becks Inc
298 E 5 St St Paul 1 Minn 3
Belmet Products Co
503 Morgan Ave
Brooklyn 22 NY 4-11-12-14-21-22
Remia Bro Bag Co
404 Pine St St Louis 2 Mo 4
Bendix Aviation Corp Cincinnati Div
3130 Wasson Rd Cincinnati 8 Ohio 8
Bernard Franklin Co Inc
4155 E Hedley St
Philadelphia 37 Pa 2-4-5-8-16-28
Renco Engineering Corp
2320 S Tibbs Ave
Indianapolis 41 Ind 8-14-22-26
Birtcher Corp Industrial Div
4371 Valley Blvd Los Angeles 32 Calif 8-14
Blickman Inc
201 Gregory Ave Weehawken NJ 12
Rodnar Industries
238 Huguenot St New Rochelle NY 26
Bone Eng'g Corp
701 W Broadway Glendale 4 Calif 16
Rownton Molding Co
324 Myrtle Ave Boonton NJ 9
Boyle Metalcraft Corp
150 Sullivan St
Brooklyn 31 NY 4-6-7-8-11-14-15-26-28-29
Bradley Associates
1650 N Damen Ave Chicago 47 Ill 4
Brooks & Perkins Inc
1950 W Fort St
Detroit 38 Mich 15-16-21-22-26-28-31
Brooks Radio & TV Corp
84 Vesey St New York 7 NY 1-10-14-27
Bucks County Enterprises
Municipal Airport
Quakertown Pa 4-8-16-26-28-31
California Chassis Co
5445 E Century Blvd
Lynwood Calif 1-4-7-8-14-17
Cal-Ohm Lamps Inc
Broadway & Adama St Sterling Kansas 3-9
Cambridge Pattern Works
55 First St Cambridge 41 Mass 10
Campro Co
3131 Alliance Rd NE Canton 1 Ohio 5-8-9
Chicago Industrial Instrument Co
865 N Sangamon St Chicago 22 Ill 21-22
Churchill Lighting Corp
344 Franklin St
Melrose 75 Mass 4-8-11-14-21-22-26-28
Cleveland Metal Specialties Co
1783 E 21 St
Cleveland 14 Ohio 25-26-27-30
Conla Electronics Co
2939 49 N 2nd St
Phila 33 Penna 8-11-14-17-21-22-24-25-26-31
Collins Radio Co
855 35 St NE Cedar Rapids Iowa 7-8
Columbia Metal Box Co
260 E 143 St
New York 51 NY 4-8-14-15-21-22-26
Communication Equipment & Eng'g Co
5646 W Race Ave Chicago 44 Ill 8-15-22
Conrad & Moser
2 Borden Ave
Long Island City 1 NY 8-14-15-21-
22-24-26-28
Consolidated Molded Products Corp
309 Cherry St Scranton 2 Penna 27
Consolidated Productions Inc
Howard Int'l Airport
Ft Lauderdale Fla 3-7-8-14-15
Continental Can Co Inc
100 E 42nd St New York 17 NY 4-5
Continental Elec Equip Co
205 W 4 St Cincinnati 1 Ohio 26
Controlled Atmosphere Enclosures Corp
230-31 141 Ave
Springfield Gardens LI NY 1-4-5-9-27
Control Specialty Corp
1515 Spring Houston 5 Texas 15
Cooper Co D C
1467 S Michigan Ave Chicago 5 Ill 2
Corry-Jamestown Mfg Corp
43 N Center St Corry Pa 8-22-26
Cosser Canada Ltd
301 Windsor
Halifax Nova Scotia Canada 8-15-26
Craig Systems Inc
90 Holten St
Danvers Mass 21-22-24-25-26-27-28-29-30-31
Croname Inc
3701 Ravenwood Ave
Chicago 13 Ill 8-11-22-26
Crystal-Westlake Corp
W Lenni Rd Lenni Mills Pa 9
Cutter Metal Products Co
1025 Linc St
Camden 3 NJ 15-22-24-26-28-29-31
Dabstrom Metallic Door Co
Buffalo 2 Sts Jamestown NY 8-21-26-28
Davies Molding Co Harry
1428 N Wells St Chicago 10 Ill 9-21
Davis & Co J W
9212 Denton Dr Dallas 35 Texas 17
Devoe Eng'g Inc
P O Box 387 Caldwell NJ 27
Dietsen Co Eugene
2425 N Sheffield Ave Chicago Ill 6
Dittmore-Freimuth Corp
2517 E Norwich St
Milwaukee 7 Wisc 8-10-11

Dolin Metal Products Inc
315 Lexington Ave
Brooklyn 18 NY 4-5-8-22-26-31
Donnelly Mfg Co
580 Winter St
Waltham 54 Mass 8-14-15-22-24-26-28-29-31
Downing Crystal Co
191 Shaffer Ave Westminster Md 14-26-31
Dynamic Electronics Inc
73-29 Woodhaven Blvd
Forest Hills NY 1-7-8-9-10-11-14-15-
17-21-22-23-29-31
DynaWood Corp
15026 Oxnard St Van Nuys Calif 9-10
Electric Cord Co
21 Spruce St New York 38 NY 2
Electro Sound Corp
115 Halleck St Boston 15 Mass 8
Electro-Voice Inc
Cecil & Carroll Sts Buchanan Mich 7-10-15-17
Elrin Metalformers Corp
630 Congdon St
Elgin Ill 7-8-15-16-21-
22-24-26-28-29-30
Ellis & Sons George D
4028 N American St Phila 40 Penna 4-21-22
Flm Labs
10 Washington Ave
Hastings-on-Hudson NY 1-10
Elzee Metal Products Co
775 39 St
Brooklyn 32 NY 14-15-16-17-21-22-24-28-28
Emerson Plastics Corp
Seabury Ave & Butler Pl
Bronx 61 NY 25-27-31
Emerson-Sack-Warner Corp
85 Washington St 1-2-3-4-5-6-7-8-14-15-16-
Somerville 43 Mass 21-22-26-27-28-29-30-31
Equipto Div Aurora Equipment Co
Aurora Ill 2-8
Ercal Tool Die & Stamping Co
19 Ash St Brooklyn 22 NY 14
Ercosa Corp
551 Fifth Ave New York 17 NY 17
Erie Resistor Corp
644 W 12 St Erie 6 Pa 9-27
Etched Products Corp
39-01 Queens Blvd Long Island City 4 NY 26
Factory Service Co
4615 N 21 St Milwaukee 9 Wisc 2-16
Falstrom Co
Falstrom Court
Passaic NJ 7-8-14-16-21-22-26-28
Feay Co Neal
427 Olive St Santa Barbara Calif 26
Federal Machine Co
835 Garfield Ave Jersey City 5 NJ 22
Feiner & Sons P
522 W 45 St
New York 36 NY 8-14-15-16-17-22-26-28
Felsinthal & Sons Inc G
3500 N Kedzie Ave Chicago 18 Ill 27-31
Fibre Containers Co
4700 District Blvd Los Angeles 58 Calif 4
Fischer & Porter Co
474 Warmister Rd Hatboro Pa 27
Fisher Berkeley Corp
4224 Holden St
Emeryville 8 Calif 7-8-22
Fisher Co Inc Oscar
P O Box 426 Newburgh NY 31
Fisher & Crome
109 N Camac St Phila 7 Pa 3-27
Fluck Machine Co
375 Main Ave Norwalk Conn 18-24
Formica Metal Products Co
Corporation Way Medford 55 Mass 8-28
Fourdie Inc
704 W Fairbanks Ave
Winter Park Fla 1-14-16-21-22-24
Gates Radio Co
153 Hampshire St
Quincy Ill 1-7-8-10-11-14-15-22
24-26-28-29-30-31
General American Transportation Corp
135 S LaSalle St Chicago 90 Ill 9-27
General Bronze Corp
711 Stewart Ave Garden City NY 8
General Electric Co
Specialty Electronic Component Dept
W Genesee St Auburn NY 7-17
General Metal Products Co
1010 Centre St Easton Pa 4-8-11-14-26-28-31
General Railway Signal Co
P O Box 600 Rochester NY 3-8-28
Glasa & Bro Harry H
10 Van Cortlandt Ave
E New York 68 NY 26-27
Golden Co
1054 38 St Brooklyn 19 NY 4-8-14-22-26-31
Granely Furniture Co
Martinsville Va 10
Grant Pulley & Hardware Corp
High St W Nyack NY 29-30
Graphic Systems
55 W 42 St New York 36 NY 26
Gray Pantograph Engraving
200 Washington St Hoboken NJ 14-25-26-27
Green Rectifier Co
1-10 30 St Fairlawn NJ 8-22
Gruen Mfg Co
2631 Brenner Dr Dallas 20 Texas 14
Hall-Scott Inc
2950 N Ontario St Burbank Calif 8-15-26
Hamilton Electronics
2726 Pratt Ave Chicago 45 Ill 8
Hamner Electronics Co
Princeton NJ 14-26

Harwood Electronics Co
466 W Superior St Chicago 10 Ill 4-5-8-14
Heldor Mfg Corp
238 Lewin St Paterson NJ 8-12-14-22-26-28-29
Henry & Miller Industries Inc
675 Garfield Ave
Jersey City 5 NJ 6-7-8-14-15-22-26
Hermes Plastics Inc
13-19 University Pl New York 3 NY 26-27
Hinde & Dauch
P O Box 861 Sandusky Ohio 4
Hirschman-Pohle Co
120 Lent Ave Leroy NY 24
Hoffman Eng Corp
9th & Tyler Anoka Minn 8-15-21-22-26
Houston Fearless Div Color Corp of America
11801 W Olympic Blvd 2-7-8-9-11-14-16-22
Los Angeles 64 Calif 25-26-27-28-29-31
Hudson Tool & Die Co
18 Malvern St Newark 5 NJ 12
IE Mfg
325 N Hoyne Ave
Chicago 12 Ill 1-4-7-8-12-14-22-24-26-29
Industrial Research Labs
Div Aeronca Mfg Corp
Hilltop & Fredericks Rds Baltimore Md 28
Industrial Systems Co
32 Main St Mantawan NJ 8-28
Industrial Washing Mach Corp
32 Main St Matawan NJ 26
Instrument Cases Inc
510 W Garfield St Glendale 4 Calif 11
Instruments Inc
122 N Madison St Tulsa Okla 21-22
Insulating Fabricators Inc
150 Union Ave F Rutherford NJ 27
Insuline Corp of America
186 Granite St
Manchester NH 1-4-5-6-7-8-11-13-14
16-17-21-22-25-26-28
Jacksonville Metals Plastics Co
575 Dara St
Jacksonville Fla 1-2-4-5-8-9-11-12-14-15
16-26-28-29-30-31
Jama Woodworking Corp
350 Meserole St Brooklyn 6 NY 4-6-10-11
Jensen Mfg Co
6601 S Laramie Ave Chicago 38 Ill 17
Jodee Plastics Co
213 Shepherd Ave Brooklyn 8 NY 9-27
Johns-Manville
22 E 40 St New York 16 NY 21-25
Kahn & Co
54 Windsor St
Hartford 1 Conn 1-3-21-22-26-28
Kane Mfg Corp
P O Box 641 N Fraley St
Kane Pa 8-12-14-15-22-24-26-28-31
Kees Mfg Co F D
700 Park St Beatrice Nebr 4-5-6-8-22
Keller Products Inc
41 Union St Manchester NH 25-26-27
Kelsey-Rayon Co
3600 Military Ave
Detroit 32 Mich 4-5-7-8-11-17-22-26-28-31
Kent Lighting Corp
500 Johnson Ave
Brooklyn 37 NY 2-4-5-6-7-8-11-21-26-29-31
Keyatone Electronics Corp
49 Bleeker St New York 12 NY 3-25-27
Kibby Instrument Co
P O Box 56 Perkins Calif 14
Kling Metal Spinning & Stamping Co
245 Centre St New York 13 NY 12-13-22-31
Kollman Case Corp
P O Box 180 Ft Wayne 1 Ind 11
Kuss Industries Inc
Tacony & Lewis Sts 4-5-7-8-11-11-15-16-21
Philadelphia 24 Pa 22-24-26-28-29-30-31
Lancaster Glass Corp
Lancaster Ohio 9
Langston Mfg Corp
47-37 Austell Pl
Long Island City 1 NY 25
Lansing Sound Inc James R
3249 Casitas Ave Los Angeles 39 Calif 7
Leedal Inc
2929 S Halsted Chicago Ill 8-22-31
Lindsay Structure Inc Div/Intl Steel Co
Evanson Ind 6-8-21-22
Lorenzen Inc H K
391 W Broadway
New York 12 NY 7-8-11-12-13-14-21
22-24-26-28-29-31
Lowell Mfg Co
3030 LaCade Station Rd St Louis 17 Mo 17
Lyon Metal Products Inc
11 Railroad Ave Aurora Ill 2-5-8-11-28-31
McMillan Industrial Corp
Brownville Ave Ipswich Mass 27
Macarr Inc
2543 Boston Rd New York 67 NY 8-14-22-26
Machinery Electrification Inc
35 Hudson St Northboro Mass 8-14-22-26
Magic-Vue Television Corp
323 E 13 St New York 3 NY 7-10-14-15-17
Magna Electronics Co
9810 Anza Ave Inglewood 1 Calif 7-8-10
Magnesium Products of Milwaukee Inc
748 W Virginia St
Milwaukee 4 Wisc 11-14-22-26-28-31
Malkin-Illion Co
400 Coit St
Irvington 11 NJ 7-8-11-14-15-21-22
24-26-28-29-30
Masonite Corp
111 W Washington St Chicago 2 Ill 25
Master Engraving Studios
135 Liberty St New York 6 NY 26

Master Etching Corp
50 Honeck St Englewood NJ 26

Mathis Co G E
6100 S Oak Park Ave Chicago 38 Ill 8-23-28

Maymer Corp
1961 W 112 St Cleveland 2 Ohio 27

Measurement Engg Ltd
232 John St Arnprior Ontario Can 8-14-15

Metal-Craft Inc
Burgess Pl 4-6-7-8-14-16-16-21
Wayne NJ 22-24-26-29-31

Metal-Fab Co
12321 Branford St
Pacoima Calif 1-8-11-14-16-21-22-24-26-28

Metal Fabricators Corp
63 Pond St
Waltham 64 Mass 4-5-8-11-14-15-21-22-26-28

Metallic Plastics Corp
27-10 44 Dr
Long Island City 1 NY 23-26-27

Metal Specialty Products Corp
27-01 Brooklyn Queens Expressway W
Woodside 77 NY 1-4-8-11-12-14-17-21-22-24
26-28-29-30-31

Metal & Thermit Corp
Rahway NJ 19

Metaplast Corp
Daviesville Rd at Pa Turnpike
Hatboro Pa 9-31

M-H Standard Corp
510 Communipaw Ave Jersey City 4 NJ 28

Mica Corp
4081 Elenda St Culver City Calif 4-5-8-27

Mica Insulator Co
797 Broadway Schenectady 1 NY 27

Micarta Fabricators Inc
524 N Ravenswood Ave Chicago 40 Ill 27

Midget Louver Co
6-8 Wall St Norwalk Conn 24

Mid-West Conveyor Co Metal Products Div
7 & Sunshine Rd 1-2-4-8-7-8-11-14-15-16
Kansas City 15 Kan 17-21-22-25-26-28-31

Mill Case Corp
3518 37 St
Long Island City NY 4-5-8-10-11
15-21-22

Miller Dial & Nameplate Co
4400 N Temple City Blvd
El Monte Calif 25-26-27

Milwaukee Stamping Co
400 S 72 St Milwaukee 14 Wisc 8-22-26-31

Minor Rubber Co
Ackerman St Bloomfield NJ 1

Mobil Electronics Mfg Co
1111 State Rd
67 E Anderson Ind 4-8-14-17-22-26-28

Molded Fiber Glass Co
4801 Benefit Ave Ashtabula Ohio 11-12-21-27

Molded Products Div Admiral Corp
Washington & Creamery Rd
W Chicago Ill 1-9-11-27

Molding Corp of America
58 Weybosset St Providence 3 RI 27

Motio-graph Inc
4441 W Lake St Chicago 24 Ill 26-28

Muckle Mfg Co
U S Hwy 14
Owatonna Minn 4-5-8-11-16-21-22-24

Mutual Electronic Industries Corp
55 Beechwood Ave New Rochelle NY 27

Mutual Electronics Industries Inc
50 Aleppo St Providence RI 27-28-29

Nameplates Inc
421 E 101 St Brooklyn 31 NY 26

National Company Inc
61 Sherman St Malden 48 Mass 29

National Gasket & Washer Mfg Co
124 E 25 St New York 16 NY 18

National Tel-Tronics Corp
52 St Casimir Ave Yonkers NY 3

Nesbit Products Div Rubber Associates
745 E Ave New York 22 NY 19

Newcomb Audio Products Co
6824 Lexington Ave
Hollywood 38 Calif 7-8-14

New England Etching & Plating Co
Spring St Holyoke Mass 26

New England Laminates Co
481 Canal St Stamford Conn 27

Northern Industrial Chemical Co
7 Elkins St Boston 27 Mass 27

Northern Metal Products Corp
9599 W Grand Ave
Franklin Park Ill 2-4-5-8-12-14-22-26-28

Nuclear Products-Erco
Div ACF Industries Inc
Riverdale Md 8

Nutron Mfg Co Inc
67 Monroe Ave
Staten Island 1 NY 8-11-14-22-26

Oberline Inc
P O Box 921 Beverly Hills Calif 7-15

O'Brien Electric Corp
6514 Santa Monica Blvd
Hollywood 38 Calif 1-7-8-15-28

Olympic Products Co Inc
3 Ave Alpha NJ 8-12-14-21-22-24-26-28-29-31

Park Nameplate Co
34-10 Linden Pl Flushing 68 NY 26

Par-Metal Products Corp
32-62 49 St
Long Island City 3 NY 1-7-8-14-15-16-21
22-26-28-29-30

Paul & Beekman
1801 W Courtland St
Philadelphia 40 Pa 7-8-11-12-13-22

F B H Mfg Co
H & Luzerne Sts Philadelphia 24 Pa 16

Penco Metal Products Div
Alan Wood Steel Co
Oaks Penna 2-5-8-15-26-28

Petroff Corp Peter A
127 Water St New York 5 NY 8

Photo Chemical Prod of Calif
1715 Berkeley St Santa Monica Calif 8-14

Plaateck Inc
P O Box 551 Poteau Okla 9-27

Pneumafil Corp
2616 Wilkinoan Blvd
Charlotte 8 NC 5-14-15-22-26-28

Poray Inc
3359 W Grand Ave Chicago 51 Ill 6-7-8-11

Pratt Albert
114 W Lake View Ave
Milwaukee 17 Wisc 8-22

Precision Metal Products Co
41 Elm St Stoneham Mass 27

Premier Metal Products Co
337 Manida St
New York 59 NY 1-7-8-14-15-17-21-22-26-28

Product Engg Labs Co Inc
558 Central Ave
Orange NJ 2-4-5-8-9-27-28-31

Protectoseal Co
1920 S Western Ave Chicago 4 Ill 8

Pye Canada Ltd
42 Northline Rd
Toronto 16 Ontario Canada 8

Q-Line Mfg Corp
1542 61 St
Brooklyn 19 NY 1-6-7-8-11-14-15
22-24-26-29-31

Quality Nameplate Inc
Fisher Hill Rd E Glastonbury Conn 25-26-27

Rada Products Co
2911 Carroll Ave Chicago 12 Ill 14-22-30

Radio Corp of America
Commercial Electronic Products
Front & Cooper Sts
Camden NJ 8-14-16-26-28

Radio Frequency Labs Inc
Boonton NJ 29-30

Radio-Matic of America Inc
760 Ramsey Ave Hillside NJ 10

Rauland-Borg Corp
3585 W Addison St
Chicago 18 Ill 3-7-8-14-15-17-22-26-28

REF Mfg Corp
398 Jericho Turnpike
Mineola NY 7-8-9-11-15-26-27-28

Reinor Electronics Co
Centre & Glendale Sts
Easton Pa 1-2-4-5-6-7-8-9-11-14-15-16-21-22-24-26-28-29-31

Remler Co
2101 Bryant St San Francisco Calif 9-29

Republic Steel Corp
Republic Bldg Cleveland 1 Ohio 2-8-26-28

Richardson Co
27 Ave & Lake St Melrose Park Ill 9-27

Riester & Thesmacher Co
1526 W 25 St
Cleveland 13 Ohio 8-11-14-15-23-26

R-J Audio Products
80 Shore Rd Port Washington NY 10

Rotating Components Inc
267 Green St Brooklyn 22 NY 8

Rumple Inc
15026 Oxnard St Van Nuys Calif 9-10

Saratoga Industries
Congress & Ballston Aves
Saratoga Springs NY 12-22

Saxton Products Inc
1661 Boone Ave New York 60 NY 17

Schaffer Air Industries
290 N Henry St Brooklyn 22 NY 4-16-22

Scientific Wood Cabinet Co
89 Holmes St
Belleville 9 NJ 1-4-5-8-7-9-10-11-12-13-15-17-21-23

Scovill Mfg Co
99 Mill St Waterbury 38 Conn 8

Sealectro Corp
610 Fayette Ave Mamaroneck NY 14

Semrow Products Co
4117 N Ravenswood Ave
Chicago 13 Ill 3-8-14-17-23-26

Service Parts Systems
13380 E 8 Mile Rd E Detroit Mich 2

Servomechanisms Inc
1200 Prospect Ave Westbury NY 26

Sheltered Workshop
2821 5th St Santa Monica Calif 4-5-10

Sieler Design Products
10460 San Pablo Ave
El Cerrito Calif 7-10-17

Sightmaster Corp
50 Aleppo St Providence RI 27-28-29

Silicone Insulation Inc
Seabury Ave & Butler Pl Bronx 61 NY 21

Silicone Seals Inc
3125 Milwaukee Ave Chicago 18 Ill 12

Skydyne Inc
River Rd Port Jervis NY 11

Snap-on Tools Corp
Kenosha Wis 11

Solartron Electronic Group Ltd
Queens Rd Thames Ditton Surrey England 8

Sonic Industries
19 Wilbur St Lynbrook NY 9-10-11-14-15-17

S O S Cinema Supply Corp
602 W 52 St New York 19 NY 19-28

Spaulding Fibre Co
310 Wheeler St Tonawanda NY 25-27

Specific Products Co
21051 Costanzo Woodland Hills Calif 14

Sphere Co
25 Amity St Little Falls NJ 12

Spincraft Inc
4122 W State St Milwaukee 8 Wisc 21-22

Spinform Inc
66 Mechanic St Attleboro Mass 8-12-14

Spivey Inc James S
4908 Hampden Lane Washington 14 DC 14-26

Spox Co
Mangum Ave High Point NC 10

Stacklin Corp
1079 Main St Pawtucket RI 2-4

Stamford Metal Specialty Co
427 W Broadway New York 12 NY 8-14

Standard Electric Time Co
89 Logan St Springfield 2 Mass 8-26

Stanley Aviation Corp
2501 Dallas St Denver Colo 24

Steinen Mfg Co Wm
43 Bruen St Newark 5 NJ 14

Stevens Walden Inc
Shrewsbury St Worcester 4 Mass 1

Strimberg-Carlson Div General
Dynamics Corp 100 Carlson Rd
Rochester 8 NY 7-24

Suckle Electronics Co
22 & Hayes Ave
Camden 5 NJ 1-7-8-11-14-22-26

Suffolk Products Corp
Woodbine & Scudder Ave Northport NY 23

Sun Dial Corp
P O Box 326 Caldwell NJ 26-27

Sun Tube Corp
181 Long Ave Hillside NJ 21

Swedlow Plastics Co
6986 Handini Blvd
Los Angeles 22 Calif 9-11-26-27

Swenson Co V II
556 Elm St Arlington NJ 9-27

Sylvania Electric Products Inc Parts Div
12 2nd Ave Warren Pa 8

Synthane Corp
Montgomery Ave Oaks Pa 27

Tabet Mfg Co
1336 Hallentine Blvd
Norfolk 12 Va 14-26-28

Taffet Radio & TV Co
27-05 Brooklyn-Queens Expressway W
Woodside 77 NY 1-8-12-14-17-21-22-24-26-28

TA Mfg Corp
4607 Alger St Los Angeles 39 Calif 11

Tarzian Inc Sarkes
415 N College Ave
Bloomington Ind 7-11-15-16-24-30

Taylor Instruments Companies
95 Ames St Rochester 1 NY 8-15-26-28

Technical Material Corp
700 Fenimore Rd Mamaroneck NY 7-15

Technical Ply-Woods Sales
6755 Crandon Ave Chicago 49 Ill 26-26

Technical Service Corp
1404 W Market St Louisville 3 Ky 8-26

Telectro Industries Corp
35-18 37 St
Long Island City 1 NY 11-21-22

Teletronics Lab Inc
54 Kinkel St Westbury NY 8-26

Terris Div Consolidated Siphon
Supply Co 22 Wooster St
New York 13 NY 4

Titchever & Co E H
67 Clinton St Binghamton NY 20

Topatron Inc
942 E Ojai Ave Ojai Calif 15

Topp Industries Inc
5255 W 102 St Los Angeles 45 Calif 21

Transformer Metal Prods Corp
35 York St Brooklyn 1 NY 4-14-26

Triad Portable Case Corp
2541 Boston Rd Bronx 69 NY 11

United Aircraft Products Inc
1116 Bolander Ave
Dayton 8 Ohio 1-4-6-8-11-14-15-22-26

Universal Industrial Equipment Corp
1625 Paterson Plank Rd Secaucus NJ 8-15

University Loudspeakers Inc
80 S Kenairo Ave White Plains NY 10-15

U S Plastic Molding Corp
Carlton St Wallingford Conn 9

U S Radium Corp
Morristown NJ 26-27

Utility Metal Products Co Inc
117 Elliott St
Beverly Mass 2-4-5-6-7-8-14-15-16-21-22

Vanity Fair Electronics
50 S 4 St Brooklyn 11 NY 8-9-10-11

Van Norman Industries Inc Electronics Div
186 Granite St
Manchester NH 7-8-14-15-16-21-26

Varl Equip Co
P O Box 46 W Cornwall Conn 27

Victory Mfg Corp
1722 W Arcade Pl Chicago 12 Ill 9-11

Vis-U-All Corp
3825 W Bryn Mawr Ave
Chicago 45 Ill 3-8-10

Vocalite Screen Corp
19 Debovoise Ave Roosevelt NY 28-27

Waldom Electronics Inc
4625 W 53 St Chicago 32 Ill 9-27

Walaco Electronics Mfg Co
100 W Green St Rockford Ill 29

Waltham Horological Corp
395 Lynnway Lynn Mass 1
Walton Tool & Die Co
2707 Empire Ave 3-1-6-7-8-14-15-16-
Burbank Calif 22-24-26-29-29-30-31
Warren Corp
2901 Brighton Rd Pittsburgh 12 Pa 8-31
Warren Mfg Co
Newtown Rd Littleton Mass 8-10-22-26-23
Waterbury Pressed Metal
300 Chase Ave Waterbury 14 Conn 22
Watson Mfg Co
3700 Taylor St
Jamestown NY 8-14-15-26-28-29-30
Wells-Gardner & Co
2701 N Kildare Ave
Chicago 39 Ill 4-5-10-17
Western Felt Works
4029 Ogden Ave Chicago Ill 18-27
Westlake Plastics Co
133 W Lenni Rd Lenni Mills Pa 9
White Aircraft Corp
Palmer Mass 4-5-7-8-11-14-21-22-24-26
Whitley Electronics Inc
411 S Chauncey St Columbia City Ind 10-17
Windsor Aircraft of Fla
P O Box 2597 Drane Fld 2-3-4-6-7-8-11-12-13-
Labeland Fla 14-16-17-21-22-24-25-26-28-30
Widney-Dorlec Div Iritish Industries Corp
80 Shore Rd Port Washington NY 9
Willson Camera Co
1395 Lawrence Rd Havertown Pa 27
Wilmington Fibre Specialty Co
New Castle Dela 25-26
Wyco Metal Products
6918 Beck Ave
N Hollywood Calif 4-7-9-14-15-17-21-22-26-28
Zenith Plastics Co
1600 W 135 St Gardena Calif 6-9-11-17-27
Zero Mfg Co
1127 Chestnut St Burbank Calif 4-5-8-11-24

12-CAPACITORS, FIXED

Capacitors, air 1
Capacitors, bathtub 2
Capacitors, ceramic 3
Capacitors, composition 4
Capacitors, decade 5
Capacitors, electrolytic dry 6
Capacitors, electrolytic wet 7
Capacitors, feed-through 8
Capacitors, gas-filled 9
Capacitors, glass 10
Capacitors, high temperature 11
Capacitors, high voltage 12
Capacitors, industrial 13
Capacitors, MIL type 14
Capacitors, metallized paper 15
Capacitors, mica 16
Capacitors, miniature 17
Capacitors, mylar dielectric 18
Capacitors, neutralizing 19
Capacitors, oil 20
Capacitors, paper 21
Capacitors, plastic dielectric 22
Capacitors, plug-in 23
Capacitors, polystyrene in-
sulated 24
Capacitors, porcelain 25
Capacitors, printed circuit 26
Capacitors, silicone-filled 27
Capacitors, silvered mica 28
Capacitors, reference 29
Capacitors, tantalum 30
Capacitors, teflon dielectric 31
Capacitors, temperature com-
pensated 32
Capacitors, transmitting 33
Capacitors, vacuum 34

Aerovox Corp 2-3-4-6-7-8-11-12-13-
740 Belleville Ave 14-15-16-17-18-20-21-22-
New Bedford Mass 23-24-25-26-28-29-30-32-33
Airborne Accessories Corp
1414 Chestnut Ave
Hillside 5 NJ 2-8-11-14-17-18-22-31
Ajax Condenser Co
932 W Wrightwood Ave 2-6-13-17-18-
Chicago 14 Ill 20-21-22-23-26-32
Allen-Bradley Co
136 W Greenfield Ave
Milwaukee 4 Wis 3-8-11-14-26-32
American Condenser Corp
4410 N Ravenswood Ave 2-6-12-13-14-17-
Chicago 40 Ill 18-20-21-22-26
American Lava Corp Subs Minn Mining &
Mfg
Cherokee Blvd & Mfrs Rd
Chattanooga 5 Tenn 3-8-12-26-32

Amperex Electronic Corp
230 Duffy Ave Hicksville LI NY 12-34
Amp Inc Capitor Div
155 Park Ave Elizabethtown Pa 11-12-22
Amp Inc
Eisenhower Blvd Harrisburg Pa 12
Argonne Electronics Mfg Corp
165-11 South Rd Jamaica 33 NY 6-17
Associated American/Div S & G Inc
750 St Anns Ave
New York 66 NY 8-14-17-18-21
Astron Corp
255 Grant Ave 2-3-6-8-11-12-13-14-15-
E Newark NJ 17-18-20-21-22-26-27-31-32-33
Automation Components Inc
875 Hickory St
Peckville Pa 3-8-12-23-26-32
Avnet Electronic Supply Co
36 N Moore St 2-3-4-6-7-15-16-17-
New York 13 NY 20-21-23-28-30-32-33-34
Axel Bros Inc/Electronics Div
134-20 Jamaica Ave 2-8-11-12-13-17-18-
Jamaica 18 NY 20-21-22-24-26-27-31-32
Balco Research Labs
49-53 Edison Pl
Newark 2 NJ 2-11-13-14-17-18-22-24-31
Barker & Williamson Inc
Canal & Beaver Sta Bristol Pa 1-10-33
Berkshire Labs
586 Rank Village Greenville NH 23
British Radio Electronics Ltd
1833 Jefferson Pl NW
Washington 6 DC 3-26-28-32
Cambridge Thermionic Corp
445 Concord Ave Cambridge 38 Mass 3
Capron Inc
25 Willett St 2-11-12-13-15-17-
New York 2 NY 18-20-21-22-23-24-31
Cardwell Co Allen D
97 Whiting St Plainville Conn 1-2
Carnf Co
P O Drawer 564 2-8-10-11-13-14-15-17-
Brookhaven Miss 18-20-21-22-24-26-27-31
Centralab Div Globe-Union Inc
900 E Keefe Ave
Milwaukee 1 Wis 3-8-12-13-14-17-26-32-33
Chicago Condenser Corp
3255 W Armitage Ave 1-2-8-11-12-13-14-15-
Chicago 47 Ill 18-20-21-22-24-26-27-31-34
Cleveland Metal Specialties Co
1783 E 21 St Cleveland 14 Ohio 26
Cornell-Dubilier Electric Corp 3-3-4-5-6-8-11-
333 Hamilton Blvd 12-13-14-15-16-17-18-20-
S Plainfield NJ 21-22-23-24-26-28-30-31-32-33
Corning Glass Works
Corning NY 19-11-12-14-17-28-33
Corson Electric Mfg Corp
540 39 St
Union City NJ 11-12-18-20-21-22-24-27-31
Cosmic Radio Corp
853 Whittier St
New York 59 NY 6-17-21-26
Courier Products/Div Model Eng'g & Mfg Inc
N Lake St Boyne City Mich 11
Dearborn Electronic Labs Inc
1421 N Wells St 2-8-10-11-12-13-14-15-
Chicago 10 Ill 18-20-21-22-24-27-31-32-33
Deutschmann Corp Tobe
Providence Hwy 2-8-11-12-18-14-15-17-18-19-
Norwood Mass 20-21-23-24-26-27-31-32
Dilectron Div Gudeman Co
2669 S Myrtle Ave
Monrovia Calif 3-12-23
Dolnick & Wilkens Inc
1807 Summit Ave Union City NJ 12-33-34
Dumont Airplane & Marine Instruments Inc
15 William St 2-6-13-14-17-18-20-21-
New York 5 NY 22-23-24-26-27-31
Eastman Pacific Co
2320 E 8 St
Los Angeles 21 Calif 5-11-13-14-17-32
Eitel-McCullough Inc
798 San Mateo Ave San Bruno Calif 34
Electra Mfg Co
4051 Broadway
Kansas City Mo 3-12-14-17-23-32
Electrical Specialty Co
158 11 St
San Francisco 3 Calif 6-13-15-20-21
Electro-Ceramics Inc
120 State St
New Haven Conn 3-8-11-13-14-17-23-27-33
Electro-Measurements Inc
7324 S W MacAdam Ave
Portland 1 Ore 5-24
Electro Motive Mfg Co 3-8-11-14-16-17-
Willimantic Conn 21-22-28
Electronic Fabricators Inc Efcron Div
682 Broadway
New York 12 NY 2-11-18-22-24-31
Electron Products Inc
480 N Halstead St 2-8-11-12-13-14-15-17-18-
Pasadena 9 Calif 20-21-22-23-24-26-27-31-32-
33
Erie Resistor Corp
644 W 12 St
Erie 6 Pa 3-4-8-10-12-14-16-17-22-26-28
Erie Resistor of Canada Ltd
7 Fraser Ave
Trenton Ont Canada 3-10-11-28
Fansteel Metallurgical Corp
2200 Sheridan Rd N Chicago Ill 7-17-30
Film Capacitors Inc
3400 Park Ave
New York 66 NY 5-12-13-15-18-20-22-24-31

Filtron Co
131-15 Fowler Ave 2-8-11-12-13-15-17-
Flushing 55 NY 18-20-21-22-24-27-31
Fluorocarbon Products Inc Div U S Gasket Co
602 N 10 St Camden 1 NJ 22-31
Ford Radio & Mica Corp
535 63 St Brooklyn 20 NY 16
Freed Transformer Co
1718-36 Weirfield St Brooklyn 27 NY 5
Gary Wells Co
361 Rockaway Ave Valley Stream NY 6-17
General Electric Co
Specialty Electronic Component Dept
W Genesee St Auburn NY 8-26
General Electric Co Capacitor Dept
John St 2-6-7-8-11-12-13-14-16-17-
Hudson Falls NY 18-19-20-21-23-30
General Electric Co
Apparatus Sls Div
1 River Rd
Schenectady 5 NY 4-6-7-12-16-17-21-30
General Electric Capacitor Dept
Electrolytic Capacitor Prod Sect
Irmo SC 6-7-11-14-17-30
General Radio Co
275 Massachusetts Ave
Cambridge 39 Mass 1-5-16-24
Geotronic Labs Inc
1314 Cedar Hill Ave
Dallas 8 Texas 11-13-17-18-24-27-31
Girard-Hopkins
1000 40 Ave
Oakland 1 Calif 2-13-14-20-21-33
Good-All Electric Mfg Co
112 W First St 3-6-11-13-14-17-18-
Ogallala Neb 20-21-22-23-24-26-27
Gudeman Co
340 Huron St 2-3-6-7-8-10-11-12-13-14-15-17-
Chicago 10 Ill 18-20-21-22-23-24-26-27-31-32
Gudeman Co of Calif
190 Commercial St
Sunnyvale Calif 2-8-10-11-12-14-15-19-20
Gulton Industries Inc
212 Durham Ave
Metuchen NJ 3-10-11-17-32
Hallett Mfg Co
5910 Boncraft St Los Angeles Calif 8
Hi-Q Div Aerovox Corp
Box 68 3-8-11-12-13-14-17-
Myrtle Beach SC 23-26-32-33
Hopkins Eng Co 2-5-8-11-
12900 Foothill Blvd 12-13-14-15-17-18-20-
San Fernando Calif 21-22-24-26-27-29-31
Illinois Condenser Co
1618 N Throop St 2-3-6-11-12-13-14-15-17-
Chicago 22 Ill 18-21-22-24-26-30-31
Industrial Condenser Corp
3243 N California Ave 2-5-6-12-13-15-17-18-
Chicago 18 Ill 20-21-22-23-24-26-31
International Electronic Industries
P O Box 1368 Nashville 3 Tenn 30
Int'l Tele & Tele Corp/Components Div
100 Kingsland Rd Clifton NJ 30
Jackson Electronics Inc
23 Woodcrest Rd West Chester Pa 24
Jeffers Electronics Div Speer Carbon Co
Hoover Ave Dubois Pa 4
Jennings Radio Mfg Corp
970 McLaughlin Ave San Jose 8 Calif 34
Kemet Co Div Union Carbide & Carbon Corp
P O Box 6087 Cleveland 1 Ohio 14-30
Laboratory Equipment Corp
Lakeview & Hilltop Rd
St Joseph Mich 24-31
Landerk Electrometer Co
641 Sonora Ave Glendale 4 Calif 24
Lapp Insulator Co Radio Specialties Div
318 Gilbert St Le Roy NY 9-12
Leeds & Northrup Co
4970 Stenton Ave Philadelphia 44 Pa 5-16
Line Material Industries
700 W Michigan Milwaukee Wis 20
London Electric Mfg Co Ltd
89 Shore Rd Port Washington NY 3-8-16-29
Luther Electronic Mfg Co
5728 W Washington Blvd
Los Angeles 16 Calif 12-18-20-21-22-27-31
Macleod & Hanopol
10 Roland St Charlestown 29 Mass 29
Magnavox Co
2131 Bueter Rd
Ft Wayne 4 Ind 2-6-7-11-12-13-14-17-26-30
Maida Development Co
214 Academy St
Hampton Va 3-8-11-12-14-17-26-32
Mailory & Co Inc P R
42 S Gray St 3-6-8-13-14-15-16-
Indianapolis 6 Ind 17-20-21-23-26-30
Micromid Electronics Mfg Corp 6-8-11-12-13-
1087 Flushing Ave 14-15-16-17-18-20-21-
Brooklyn 37 NY 22-23-24-27-28-30-31-33
Murey Corp
2014 N Major Ave Chicago 39 Ill 28
Mucon Corp
9 St Francis St
Newark 5 NJ 3-11-14-17-26-32
Muirhead Instruments Inc
677 E Ave New York 22 NY 5-16-21-28-29
Mullenbach Div Electric Machinery Mfg Co
2100 E 27 St Los Angeles 58 Calif 3
Muter Co
1255 S Michigan Ave Chicago Ill 3-8
New York Coil Co
40 2 Ave Phoenixville Pa 18-21
Northern Metal Products Corp
9599 W Grand Ave Franklin Park Ill 2

Nucleonic Products Co	
1601 Grande Vista Ave	
Los Angeles 81 Calif	6
Ohio Brass Co	
380 N Main St Mansfield Ohio	12
Ohmite Mfg Co	
3601 Howard St Skokie Ill	7-14-17-30
Onondara Pottery Co	
1858 W Fayette St	
Syracuse 1 NY	3-23-26-32
Painton & Co Ltd	
c/o British Electronic Sales Co	
Box 132 Oakland Gardens 64 NY	31
Patterson Moos Div Universal Winding Co	
90-28 Van Wyck Expressway	
Jamaica 18 NY	12
Planet Mfg Corp	
225 Belleville Ave	
Bloomfield NJ	6-17-26
Plastic Capacitors Inc	
2620 N Claybourn Ave	2-5-11-12-13-
Chicago 14 Ill	14-17-18-20-21-22-
	23-24-26-27-29-31-32-33
Potter Co	
1950 Sheridan Rd	2-4-8-10-11-12-13-14-
Chicago 111	15-17-18-20-21-22-
	23-24-26-27-31-33
Precise Development Corp	
2 Neil Ct Oceanside NY	
Precision Capacitors Inc	
150 W Cypress St	
Burbank Calif	2-14-18-22-23-24
Pyramid Electric Co	
1445 Hudson Blvd	
N Bergen NJ	2-6-11-12-13-14-15-
	17-18-20-21-23-26-27-30
Quality Components Inc	
St Marys Pa	4
Radiation Research Corp	
1114 1st Ave New York 21 NY	24
Radio Industries Inc	
5225 N Ravenswood Ave	
Chicago 25 Ill	3-8-12-23-24-26-32
Radio Materials Corp	
3325 N California Ave Chicago 18 Ill	3
Research Instrument Co	
P O Box 9168 Montavilla Station	
Portland 16 Ore	6
Risco	
265 Minna St San Francisco 3 Calif	16-28
Saftee Glass Co	
4717 Stenton Ave Philadelphia 44 Pa	10
St Eloi Corp	
P O Box 507 Newtown Br	
Cincinnati 44 Ohio	4-11-12-13-17-26
San Fernando Electric Mfg Co	
1505 1 St	2-5-8-10-11-12-13-14-15-17-
San Fernando Calif	18-20-21-22-23-24-26-27
Sangamo Electric Co	2-4-6-8-11-12-18-
1207 N 11th St	14-16-17-18-20-21-22-23-
Springfield Ill	24-26-27-28-29-30-31-32-33
Saratoga Industries	
Congress & Ballaton Aves	
Saratoga Springs NY	12-18-20-21-22
Simmonds Aeroessaries Inc	
Vermont Vt	26-29
Skottig Electronics Inc Sub Astron Corp	
204 Bridge St Peckaville Pa	3-8-12-32
Solar Mfg Corp	
4553 Seville Ave	
Los Angeles 58 Calif	3-12-14-17-26-32
Southern Electronics Corp.	
150 W Cypress Ave	2-5-11-12-18-22-
Burbank Calif.	23-24-26-29-31-32
Sprague Electric Co	
Marshall St 2-3-4-6-8-11-12-13-14-15-16-17-18-	
N Adams Mass	20-21-22-23-24-26-28-30-32-33
Sprague of Wisconsin Inc	
6 & Beech Sts	
Grafton Wis	3-12-23-26-33
Taffet Radio & TV Co	
27-05 Brooklyn-Queens Expressway W	
Woodside 77 NY	1
Tarzan Inc Sarkes	
415 N College Ave Bloomington Ind	14
Telegraph Condenser Co	
1-2-3-4-5-6-7-8-10-	
N Acton	11-12-13-14-16-17-19-20-21-22-23-
London W 3 England	24-26-28-29-30-32-33
Teleradio Eng'g Corp	
Shannon & Barrett Sta	
Wilkes-Barre Pa	1-8-14-16-26-28-30
Television Corp	
1415 Golf Rd Des Plaines Ill	8
Texas Capacitor Co Div K-C-K Corp	
922 S 75 St Houston 23 Texas	17-18-22-31
Texas Instrument Inc	
6000 Lemmon Ave Dallas 9 Texas	6-26-30
Thermal Refractories Corp	
4601 Dell Ave N Bergen NJ	8
Transistor Electronics Inc	
West Rd Bennington Vt	14-17-26-30
United Electronics Mfg Corp	
542 39 St Union City NJ	6-26
United Electronics Co	
42 Spring St Newark 4 NJ	11-12-13-14-33-34
US Electronics Devel Corp	
1323 Air Way	1-2-5-8-11-15-18-20-
Glendale 1 Calif	21-22-23-24-30-31
Victory Eng'g Co	
121 Springfield Rd Union NJ	84
Vitramon Inc	
Box 544 Bridgeport 1 Conn	8-11-14-17-26-26
Welwyn Int'l Inc	
3355 Edgecliff Terrace Cleveland 11 Ohio	3-25
Weeco Electrical & Mfg Co	
27 Olive St Greenfield Mass	13
Westinghouse Electric Corp	
P O Box 868 Pittsburgh 30 Pa	13-20
Winalow Co	
701 Lehigh Ave Union NJ	5

13—CAPACITORS, VARIABLE

Capacitors, air	1
Capacitors, ceramic trimmer	2
Capacitors, gas filled	3
Capacitors, glass trimmer	4
Capacitors, high temperature	5
Capacitors, mica trimmer	6
Capacitors, miniature	7
Capacitors, modulated sweep	8
Capacitors, neutralizing	9
Capacitors, oil filled	10
Capacitors, piston	11
Capacitors, plastic	12
Capacitors, precision	13
Capacitors, printed circuit	14
Capacitors, receiver tuning	15
Capacitors, semiconductor	16
Capacitors, transmitter tuning	16
Capacitors, vacuum	17

Aerovox Corp	
740 Belleville Ave New Bedford Mass	2
Ajax Condenser Co	
932 W Wrightwood Ave Chicago 14 Ill	10-12
All Star Products Inc	
Squire Ave Defiance Ohio	1-15
Argonne Electronics Mfg Corp	
161-11 South Rd Jamaica 33 NY	7-12
Associated American Div S & G Inc	
750 St Anna Ave New York 56 NY	7-18
Atlas E-E Corp	
47 Prospect St Woburn Mass	4
Balco Research Labs	
49-53 Edison Pl Newark 2 NJ	5-12
Barker & Williamson Inc	
Canal & Beaver Sts Bristol Pa	1-9-16
British Electron Sales Co Inc	
Printon Div Oakland Gdns	
Fishing 64 NY	4-5-11
British Radio Electronics Ltd	
1833 Jefferson Pl	
N W Washington 6 DC	1-7-13-14
Cambridge Thermionic Corp	
445 Concord Ave	
Cambridge 38 Mass	2-4-11-14
Cardwell Co Allen D	
97 Whiting St Plainville Conn	1
Centralab Div Globe-Union Inc	
900 E Keefe Ave Milwaukee 1 Wisc	2-18
Condenser Products Div	
New Haven Clock & Watch Co	
140 Hamilton St	
New Haven 6 Conn	1-5-10-12
Corning Glass Works	
Corning NY	4-7-13
Dumont Airplane & Marine Industries	
Inc 15 William St	
New York 5 NY	10-12-13
Eastman Pacific Co	
2320 E 8 St Los Angeles 21 Calif	2
Eitel-McCullough Inc	
798 San Mateo Ave San Bruno Calif	17
Electrical Specialty Co	
158 11 St San Francisco 3 Calif	10
Electrical Utilities Co	
2427 St Vincents Ave	
LaSalle Ill	10-12-14-15-16
Electro-Ceramics Inc	
120 State St New Haven Conn	2-7
Electro Motive Mfg Co	
Williamantic Conn	6
Electron Products Inc	
430 N Halstead St	
Pasadena 8 Calif	5-7-10-12-13-14
Erie Resistor Corp	
644 W 12 St Erie 6 Pa	2-15
Erie Resistor of Canada Ltd	
7 Fraser Ave Trenton Ont Canada	2-12
Fastex Div Ill Tool Works	
195 Algonquin Rd Des Plaines Ill	2
Filtron Co	
10023 W Jefferson Blvd	
Culver City Calif	10-12
Fluorocarbon Products Inc Div U S Gasket Co	
602 N 10 St Camden 1 NJ	8-12
Ford Radio & Mica Corp	
536 63 St Brooklyn 20 NY	6
Gary Wella Co	
361 Rockaway Ave Valley Stream NY	15
General Instrument Corp	
65 Gouverneur St Newark NJ	1-15-16
General Instrument Corp F W Sickles Div	
165 Front St Chicopee Mass	1
General Radio Co	
275 Massachusetts Ave	
Cambridge 39 Mass	1-13
Gombos Inc Co John	
111 Montgomery Ave Irvington 11 NJ	1
Hammarlund Mfg Co	
460 W 84 St New York 1 NY	1-5-7-9-13-15-16
Hughes Products/Hughes Aircraft Co	
Semiconductor Div/Intl A/P	
Los Angeles Calif	18
International Electronic Industries	
P O Box 1368 Nashville 3 Tenn	7
Jackson Electronics Inc	
23 Woodcrest Rd West Chester Pa	14

Jennings Radio Mfg Corp	
970 McLauhlin Ave San Jose 8 Calif	17
JFD Electronic Corp	
6101 16 Ave Brooklyn 4 NY	11-13
Johnson Co E F	
206 2 Ave S W Waseca Minn	1-7-9-16
Lapp Insulator Co Radio Specialties Div	8
318 Gilbert St Le Roy NY	
Leeds & Northrup Co	
4970 Stenton Ave Philadelphia 44 Pa	1-18
London Electric Mfg Co Ltd	
80 Shore Rd Port Washington NY	7
McCoy Electronics Co	
Chestnut & Watts Sts	
Mt Holly Springs Pa	7-15
Maida Development Co	
214 Academy St Hampton Va	2
Marathon Electric Mfg Corp	
Randolph & Cherry Wausau Wisc	13
Mica Fabricating Co	
63 Central Ave Rochelle Park NJ	6
Millen Mfg Co James	
150 Exchange St Malden 48 Mass	1-7-9-16
Miniature Electronic Components	
796 Herry Rd Nashville Tenn	7-14
Mitronics Inc	
1290 Central Ave Hillside NJ	2-4-6-11
Morrow Radio Mfg Co	
2794 Market St Salem Oregon	1
Muter Co	
1255 S Michigan Ave Chicago Ill	2
Muirhead Instruments Inc	
677 5 Ave New York 22 NY	1-13
National Capacitor Co	
18 Webster St Brookline 46 Mass	10-12-16
National Company Inc	
61 Sherman St Malden 48 Mass	1
Plastic Capacitors Inc	
2620 N Clybourn Ave Chicago 14 Ill	12
Precision Capacitors Inc	
150 W Cypress St Burbank Calif	12-13
Q-Line Mfg Corp	
1622 61 St Brooklyn 19 NY	2-4
Radio Condenser Co	
Davis & Copewood Sts	
Camden 3 NJ	1-2-5-7-9-10-13-15-16
Rauland-Borg Corp	
3535 W Addison St Chicago 18 Ill	1
Romar Plastics Inc	
1311 E Main St St Charles Ill	12
Sickles Div F W GIC	
165 Front St Chicopee Mass	13
Solar Mfg Corp	
4533 Seville Ave	
Los Angeles 58 Calif	2-9-13
Southern Electronics Corp	
150 W Cypress Ave Burbank Calif	5-12-13
Sprague Electric Co	
Marshall St North Adams Mass	2
Sprague of Wisconsin Inc	
6 & Beech Sta Grafton Wisc	2
Stupakoff Div Carborundum Co	
Latrobe Pa	2
Taffet Radio & TV Co	
27-05 Brooklyn-Queens Expressway W	
Woodside 77 NY	1
Tarzan Inc Sarkes	
415 N College Ave Bloomington Ind	1-16
Telectro Industries Corp	
35-18 37 St Long Island City 1 NY	13
Telegraph Condenser Co	
N Acton London W 3 England	2-5-7
Thermal Refractories Corp	
4601 Dell Ave N Bergen NJ	
Trans-Sil Corp	
55 Honeck St Englewood NJ	18
United Electronics Co	
42 Spring St Newark 4 NJ	5-7-16-17
U S Electronics Devel Corp	
1323 Air Way Glendale 1 Calif	10-13
Vacap Corp	
1905 Summit Ave Union City NJ	17
Wheaton Co T C	
Milville NJ	4
Wisconsin Porcelain Co	
121 Lincoln St Sun Prairie Wis	2

14—CHASSIS ACCESSORIES

Adapters, crystal	1
Adapters, lamp socket	2
Adapters, plug	3
Adapters, test	4
Adapters, tube socket	5
Binding posts	6
Coaxial cable fittings	7
Harnesses	8
Implosion plates	9
Jack covers	10
Jacks	11
Jumpers	12
Lugs	13
Safety terminals	14
Sockets, coil	15
Sockets, relay	16
Sockets, subminiature	17
Sockets, transistor	18
Sockets, tube	19

Soldering lugs	20
Solderless lugs	21
Spaghetti	22
Tapes, pressure sensitive	23
Terminals & terminal strips	24

FUSES & FUSE HOLDERS

Fuse clips	25
Fuse holders	26
Fuses, cartridge	27
Fuses, instrument	28
Fuses, plug	29

SHIELDING

Cathode ray shielding	30
Coil shielding	31
Electrostatic shielding	32
Ferrite shielding	33
Glass r-f shielding	34
Heat shielding	35
Ignition shielding	36
Lead shielding	37
Magnetic shielding	38
Radiation shielding	39
Rubber shielding	40
Screen shielding	41
Sheet on screen shielding	42
Solid shielding	43
Transformer shielding	44
Tube shielding	45
Wire shielding	46
Screen rooms	47

Atlas E-E Corp	
47 Prospect St Woburn Mass	25-46
Auburn Mfg Co	
Pease Ave & Stack St	
Middletown Conn	40
Auburn Spark Plug Co	
89 York St Auburn NY	36
Audicon Electronics Inc	
216 Lyon St Paterson 4 NJ	8-12
Audio Development Co	
2933 13 Ave	
5 Minneapolis Minn	6-11-12-24
Avnet Electronic Supply Co	
34 N Moore St	
New York 13 NY	26-27-28
Haird-Atomic Inc	
33 University Rd	
Cambridge 38 Mass	37-39
Harwood Electronics Inc	
321 E Broadway Glendale 5 Calif	3
Head Chain Mfg Co	
110 Mountain Grove St	
Bridgeport 5 Conn	6-11
Hel Fuse Inc	
311 Mountain Rd Union City NJ	28
Helmont Smelting & Refining Works	
330 Helmont Ave Brooklyn 7 NY	37-39
Hendix Aviation Corp/Scintilla Div	
Delaware Ave Sidney NY	36
Herco Engineering Corp	
2320 S Tibbs Ave	
Indianapolis 41 Ind	8
Hirnbach Radio Co	
145 Hudson St	6-8-11-13-20-22-
New York 13 NY	24-25-26-36-46
Hirtcher Corp Industrial Div	
4371 Valley Blvd	
Los Angeles 32 Calif	46
H J Electronics Brg-Warner Corp	
3300 Newport Ave Santa Ana Calif	39
Holton Labs Inc	
W Main St Bolton Mass	1
Hoston Woven Hose & Rubber Co	
P O Box 1071 Boston 3 Mass	23
Brady Co W H	
727 W Glendale Ave	
Milwaukee 9 Wisc	23
Brand & Co William	
41 North St Willimantic Conn	22-23
Brand Dielectrics Inc	
57 North St Willimantic Conn	23
Braun Tool & Instrument Co Inc H	
140 Fifth Ave Hawthorne NJ	25
Breeze Corps	
700 Liberty Ave Union NJ	36-37-46
Brillhart Plastics Corp	
Old Country Rd Mineola NY	11
British Electronic Sales	
Oakland Gardens	
Flushing 64 NY	11-16-19
Brooks & Perkins	
1950 W Fors St Detroit Mich	39
Buffalo Electronics Corp	
37 Franklin St Buffalo 2 NY	8
Bussmann Mfg Co	
University at Jefferson	
St Louis 7 Mo	25-26-27-28-29
Cable Electric Products	
234 Daoll St	
Providence 7 RI	2-3-4-7-8-11-12-24-27-29
Cable & Wire Products Co	
Chicago Rd Swanton Ohio	
Cambridge Thermionic Corp	
445 Concord Ave	
Cambridge 38 Mass	11-13
Carter Parts Co	
3401 W Madison St Skokie Ill	11
Ceramtronics Inc	
364 Highland Ave Passaic NJ	24
Chase-Shawmut Co	
374 Merrimac St Newburyport Mass	27
Chemical Development Corp	
Endicott St Danvers Mass	37-39
Chicago Industrial Instrument Co	
865 N Sangamon St Chicago 22 Ill	5
Cinch Mfg Corp	
1026 S Homan Ave	
Chicago 24 Ill	11-13-16-17-18-19-20-24-26
Cinema Engg Div Aerovox Corp	
1100 Chestnut St Burbank Calif	11
Cleveland Metal Specialties Co	
1783 E 21 St	
Cleveland 14 Ohio	16-20
Coaxial Connector Co	
37 N 2 Ave	
Mt Vernon NY	1-2-3-4-6-7-8-11-17-24
Coils Electronics Co	
2939 49 N 2nd St Phila 33 Penna	8
Coil Winders Inc	
30 New York Ave New Cassel	
Westbury LI NY	15-24-31-32-33-38-44
Columbia Wire & Supply Co	
2850 Irving Park Rd Chicago 18 Ill	46
Connector Corp	
6027 N Keystone Ave	
Chicago 30 Ill	35-45
Conn Hard Rubber Co	
P O Box 1911 New Haven 9 Conn	23-26
Conn Telephone & Electric Corp	
70 Britannia St Meriden Conn	8-11
Consolidated Molded Products Corp	
309 Cherry St	
Scranton 2 Penna	11-12-16-19-24-26
Consolidated Productions Inc	
Broward Int'l Airport	
Ft Lauderdale Fla	8

Consolidated Wire & Associated Cos	
1635 S Clinton St	
Chicago 16 Ill	36-46
Continental-Diamond Fibre Corp	
Newark Del	23
Controlled Atmosphere Enclosures Corp	
230-11 141 Ave	
Springfield Gardens LI NY	32-39
Co-operative Industries Inc	
100 Oakdale Rd Chester NJ	36
Craig Systems Inc	
90 Holten St Danvers Mass	25-26
Croname Inc	
3701 Ravenwood Ave Chicago 13 Ill	10
Dale Boisen Co	
2928 Nebraska Ave Santa Monica Calif	8
Dante Electric Mfg Co	
Bantam Conn	24-25
Dearborn Glass Co	
6600 S Harlem Ave Bedford Park Argo Ill 9	
Deatur Electronic Industries Corp	
203 Orinoco Dr Brightwaters LI NY	8-10
Defiance Eng'g & Microwave Corp	
Beverly Airport Beverly Mass	7
Dielectric Materials Co	
5315-17 N Ravenswood Ave	
Chicago 40 Ill	22-46
Dittmore-Freimuth Corp	
2517 E Norwich St Milwaukee 7 Wisc	7
Division Lead Co	
1742 W 61 Pl Summit Ill	37-39
D & M Products	
13144 W McNichols Rd Detroit 35 Mich	23
Don-Lan Electronics Co	
1101 Olympic Blvd Santa Monica Calif	7
Dossert Mfg Corp	
249 Huron St Brooklyn 62 NY	13-21
Douglas Roesch Cable Div Hall-Scott	
Inc 2950 N Ontario St	
Burbank Calif	8
Dunham-Bush Inc	
W Hartford Conn	35
Dynamic Electronics Inc	
73-29 Woodhaven Blvd	
Forest Hills NY	3-4-12
Eagle Electric Mfg Co	
23-10 Bridge Plaza	
Long Island City 1 NY	26-27-29
Eby Co H H	
4700 Germantown Ave	
Philadelphia 44 Pa	26
Ely Sales Co	
130 Lafayette St	1-4-5-6-8-15-16-
New York 13 NY	17-18-19-26-29
Elco Corp	
M St Below Erie Ave	
Phila 24 Pa	6-16-17-18-19-24
Elco Mfg Co	
137 Herriek Rd New Hyde Park LI NY	1
Electrical Specialty Co	
158 11 St	
San Francisco 3 Calif	13-20-21-22-23
Electric Terminals Corp	
2019 Center St Cleveland 13 Ohio	13-21
Electrix Terminals & Connectors Inc	
990 E 67 St Cleveland 3 Ohio	13-24
Electro Physics Co	
297 Broadway New York 7 NY	8
Elm Labs	
Washington Ave	
Washington-on-Hudson NY	1-24
Emerson & Cuming Inc	
869 Washington St	
Canton 1 Mass	32-43-47
Emerson Plastics Corp	
Seabury Ave & Butler Pl Bronx 61 NY	24
Emerson-Sack-Warner Corp	
85 Washington St	
Somerville 43 Mass	30-37-41-42
Empire Electronics Co	
166 River St Paterson 1 NJ	8
Enflo Corp	
Fellowship Rd Route 73	
Maple Shade NJ	1-19-22-23-24-35
Entron Inc	
4902 Lawrence St	
Bladensburg Md	4-7-12
Erea Tool Die & Stamping Co	
19 Ash St	
Brooklyn 22 NY	13-20-21-24-25-26
Ercona Corp	
551 Fifth Ave	
New York 17 NY	6-7-24-25-26-27-28
Erie Resistor Corp	
644 W 12 St Erie 6 Pa	8
Exact Industries Inc	
8730 Santa Monica Blvd	
Los Angeles 46 Calif	25
Exceller Electronics Inc	
475 Chestnut St Cedarhurst LI NY	24
Factory Enterprises Inc	
3431 Butler St	
Pittsburgh 1 Pa	41-46-47
Factory Service Co	
4615 N 21 St Milwaukee 9 Wis	11
Fansteel Metallurgical Corp	
2200 Sheridan Rd N Chicago Ill	39
Federal Screw Products Inc	
3917 N Kedzie Ave	
Chicago 18 Ill	24-26-26
Ferroxcube Corp of America	
35 E Bridge St Saugerties NY	23
First Electronics Corp	
117 Blue Hill Ave Boston 19 Mass	8-12
Fish-Schurman Corp	
70 Portman Rd New Rochelle NY	39

Fluorocarbon Products Inc Div U S Gasket Co 602 N 10 St Camden 1 NJ 6-11-16-16-17-18-19-22-24	Jettron Products Route 10 Hanover NJ 8-17-19	Molding Corp of America 68 Weybosset St Providence 3 RI 24
Frederick Tool & Engg Corp 414 Pine Ave Frederick Md 8	Joelin Mfg Co Lufberry Ave Wallingford Conn 23-24	Muter Co 1256 S Michigan Ave Chicago Ill 46
Frenchtown Porcelain Co Frenchtown NJ 24	Johns-Manville Dutch Brand Div 7800 Woodlawn Ave Chicago 19 Ill 28	Morey Corp 2014 N Major Ave Chicago 39 Ill 8
Garde Mfg Co 188 Eddy St Providence 3 RI 10-11-13-14-20-24-25-26	Johns-Manville 22 E 40 St New York 16 NY 23	Mutual Electronics Industries Inc 50 Aleppo St Providence RI 27-28
Gates Radio Co 123 Hampshire St Quincy Ill 5-8-12-19-39-46	Johnson Co E P 206 E 40 Ave SW Waseca Minn 6-11-19	Narrow Fabric Co P O Box 742 Reading Pa 8
Gavitt Wire & Cable Co Central St Brookfield Mass 8	Jones Div Howard R Cinch Mfg Co 1026 S Homan Ave Chicago 24 Ill 11-24-26	National Aircraft Corp Electronics Div 3411 Tulare Ave Burbank Calif 18
Gee-Lar Mfg Co 418 S Wyman St Rockford Ill 11-25	Jones Electronics Hiram 2313 W Olive St Burbank Calif 11-13-20-24	National Company Inc 61 Sherman St Malden 48 Mass 6-19
General Bronze Corp 711 Stewart Ave Garden City NY 8	Julie Research Labs 656 W 168 St New York 32 NY 36	National Moldite Co 260 South St Newark NJ 31-33-38
General Cable Corp 420 Lexington Ave New York 17 NY 32-34-35-36-39-41-45-46	Kane Mfg Corp P O Box 641 N Fraley St Kane Pa 47	National-Standard Co Niles Michigan 46
General Components Inc 226 E 144 St Bronx 61 NY 13-20-21-24-26	Kelley & Co O G 98 Taylor St Boston 22 Mass 37-39-45	National Tel-Tronics Corp 52 St Casimir Ave Yonkers NY 11-16-20-24-25
General Electric Co Apparatus Sls Div 1 River Rd Schenectady 5 NY 27	Kelso-Haves Co 3600 Military Ave Detroit 32 Mich 8	Nema Clarke Inc 919 Jesup-Blair Dr Silver Spring Md 40
General Electric Co 95 Hathaway St Providence 7 RI 26-29	Kendall Co Polyken Sales Div 309 W Jackson Blvd Chicago 20 Ill 23	Neosil Products Div Rubber Associates 745 5 Ave New York 22 NY 26-40
General Machine & Instrument Co Clinton Rd Caldwell NJ 14	Kinney Co Joseph Syramore St Carnegie Pa 42-43	Newark Wire Cloth Co 351 Verona Ave Newark 4 NJ 32-41
General Plastics Corp 165 3 Ave Paterson 4 NJ 23	Klieg Bros 321 W 50 St New York 19 NY 21	Newcomb Spring Corp 177 E Hawthorne Ave Valley Stream NY 25
General Radio Co 275 Massachusetts Ave Cambridge 39 Mass 6-7-11	Kling Metal Spinning & Stamping Co 246 Centre St New York 13 NY 44-45	New England Electrical Works 365 Main St Lisbon NH 46
General RF Fittings Inc 702 Beacon St Boston 15 Mass 1-3-6-7-8-11	Kolton Electric Mfg Co 123 NJ Railroad Ave Newark 5 NJ 25-26	Newman Co M M 79 Clifton Ave Marblehead Mass 8-22
Gerrardi Co A J 1908 Hawthorne Ave Melrose Park Ill 23	Kost Products Co 2355 N Cicero Ave Chicago 39 Ill 1-25-26	Nichols Products Co 325 W Main St Moorestown NJ 1-7
Globe Electrical Mfg Co 1729 W 134 St Gardena Calif 24	Kulka Electric Mfg Co 533 S Fulton Ave Mt Vernon NY 2-3-12-13-20-24-25	Norrich Plastica Corp 107 W 18th St New York 16 NY 31-44
Goat Co Fred 314 Dean St Brooklyn 17 NY 39-45	Kunn Industries Inc Tommy & Lewis Sts Philadelphia 24 Pa 8	Northern Metal Products Corp 9599 W Grand Ave Franklin Park Ill 30-44
Go Engg Co 219 S Mednik Ave Los Angeles 22 Calif 24	Lab-Tronics Inc 3656 N Lincoln Ave Chicago 13 Ill 8-11-12	North Shore Nameplate Inc 214-27 Northern Blvd Bayside 61 NY 23
Grayhill Inc 661 Hillgrove Ave La Grange Ill 6-11-18	Libbey-Owens Ford Glass Co 608 Madison Ave Toledo 3 Ohio 9	NRJ Instrument Co 9842 Manchester Rd St Louis 14 Mo 39
Great Western Div Interlectric Corp 1401 Lexington Ave Warren Pa 25-27-29	Lindsay Structure Inc Div Int'l Steel Co Evansville Ind 43	Nuclear-Chicago Corp 225 W Erie St Chicago 10 Ill 37-39
Greene Corp G G Warren Pa 5-10-13-15-16-17-19-20-21-25-26	Lindgren & Assoc Erik A 4515 N Ravenswood Ave Chicago 40 Ill 36-39-41-42-43-47	Nuclear Measurements Corp 2460 N Arlington Ave Indianapolis 16 Ind 39
Guild Electronics Inc 388 Broadway New York 13 NY 19	Linell Engg Corp Chas S 447 S Blvd Oak Park Ill 11	Nucleonic Corp of America 196 Dugraw St Brooklyn 31 NY 37-39
Hal-Hen Co 36-14 11 St Long Island City 6 NY 11	Littelfuse Inc 1865 Miner St Des Plaines Ill 26-28-27-28-29	OK Electronics Corp 7 Hunt Pl Nutley 10 NJ 27
Hallamore Electronics Co 8352 Brookhurst Ave Anaheim Calif 8	Litton Industries Components Div 5873 Rodeo Rd Los Angeles 16 Calif 6-11-13-14-20-24	Opad Electric Co 69 Murray St New York 7 NY 8
Hallett Mfg Co 6910 Bowcroft St Los Angeles Calif 7-8-12-31-32-35-36-37-38-42-43-46	Livington Electronic Corp P O Box 3 Livingston NJ 13	Pacific Automation Products 1000 Air Way Glendale 1 Calif 8
Hammer Electronics Co P O Box 631 Princeton NJ 8	Madigan Corp 626 Mineola Ave Carle Place NY 8	Pacific Electricoord Co 3217 Exposition Pl Los Angeles 15 Calif 8
Harwood Electronics Co 466 W Superior St Chicago 10 Ill 6	Magnetic Inc Box 391 Butler Pa 30-31-33-44-45	Panduit Co 14461 Waverly Ave Midlothian Ill 21
Heldor Mfg Corp 238 Lewis St Paterson NJ 14-24	Magnetic Metals Co Hayes Ave & 21 St Camden NJ 30-38-44-45	Patterson Moos Div Universal Winding Co 90-28 Van Wyck Expressway Jamaica 15 NY 29
Henry & Miller Industries Inc 676 Garfield Ave Jersey City 5 NJ 38	Makepeace Div D F Engelhard Industries Inc Pine & Denham Sts Attleboro Mass 38	Paul Heckman 1801 W Courtland St Philadelphia 40 Pa 33-43-45
Hermetic Pacific Corp 4232 Temple City Blvd Rosemead Calif 18	Males Tool & Mfg Co 4025 W Lake St Chicago 24 Ill 6-13-20-21-24	Pearce Simpson Inc 3023 Coral Way Miami 34 Fla 36
Hi Grade Alloy Corp 1236 S Talman Chicago 8 Ill 37-39	Mallory & Co Inc P R 42 S Gray St Indianapolis 6 Ind 11-39-43	Pee-Cee Tape & Label Co 521 N La Brea Ave Los Angeles 36 Calif 23
Hobson Bros 4940 W Lawrence Ave Chicago 30 Ill 13-20-21-24	Mandax Mfg Co 2608 W 16 St Chicago 8 Ill 13-19-20-21	Perfection Mica Co 1322 N Elston Ave Chicago 22 Ill 30-31-32-33-43-44-45
Hoffman Electronics Corp 3761 S Hill St Los Angeles 7 Calif 19-24-45	Marbette Corp 37-31 30 St Long Island City 1 NY 30-37-39	Permacel-Le Pages Inc U S Hwy 1 New Brunswick NJ 22-23
Hopkins Eng Co 12900 Foothill Blvd San Fernando Calif 36	Marshall Associates Inc John Box 2463 Bridgeport R Conn 13	Permonite Mfg Co 444 Lake Shore Dr Chicago 11 Ill 13-19-20-21-24-26
Holyoke Wire & Cable Corp 720 Main St Holyoke Mass 8	Masterite Industries Inc 835 W Olive St Inglewood Calif 25	Photographic Analysis Inc 13273 Ventura Blvd N Hollywood Calif 7
Hubbell Inc Harvey State Rd & Bostwick Ave Bridgeport 2 Conn 11-24	Measurement Engg Ltd 232 John St Arnprior Ontario Can 8	Pix Mfg Co 75 Hudson St Newark 3 NJ 13-20-21
IE Mfg 325 N Hoyne Ave Chicago 12 Ill 13	Mercury Engg Corp 339 P Cottage Pl York Pa 8-46	Plastic Mold & Engg Co 137 Clifford St Providence RI 18-19
Illumitronic Engg Co 680 E Taylor Ave Sunnyvale Calif 8	Metal Specialty Products Corp 27-01 Brooklyn Queens Expressway W Woodside 77 NY 1-5-8	Polymer Corp 2120 Fairmont Ave Reading Pa 8R
Industrial Hardware Mfg Co 109 Prince St New York 12 NY 17-18-19-24	Metal Textile Corp 647 E First Ave Roselle NJ 32-36-41-42-46	Pomona Electronics Co 1126 W 6 Ave Pomona Calif 4-5
Industrial Research Labs Div Aeronca Mfg Co Chittop & Fredericks Rd Baltimore Md 4	Methode Mfg Corp 7447 W Wilson Ave Chicago 31 Ill 16-17-18-19-45	Precision Metal Products Co 41 Elm St Stoneham Mass 6-20
Industrial Wiring & Cable Co 103 Foundry St Wakefield Mass 8	Micarta Fabricators Inc 5324 N Ravenswood Ave Chicago 40 Ill 6-17-18-19-20	Precision Tube Co Church Rd & Wissahickon Ave North Wales Pa 46
Instruments Inc 122 N Madison St Tulsa Okla 39	Millen Mfg Co James 150 Exchange St Malden 48 Mass 24-30-31-32-38	Printed Cellophane Tape Co 821 N La Brea St Los Angeles 36 Calif 23
Insulation & Wires Inc 1534 Swinney Ave Ft Wayne Ind 22	Miller Dial & Nameplate Co 4400 N Temple City Blvd El Monte Calif 26-26-27	Pye Telecommunications Ltd Newmarket Rd Cambridge England 1
Insuline Corp of America 186 Granite St Manchester NH 1-6-11-13-19-20-21-25-26	Milwaukee Stamping Co 800 S 72 St Milwaukee 14 Wisc 13-14	Pyramid Screen Corp 181 Harvard St Brookline 46 Boston Mass 41
International Electronic Research Corp 145 W Magnolia Blvd Burbank Calif 45	Minn Mining & Mfg Co Irvington Div 6 Argyle Terr Irvington NJ 8-22	Radiation Counter Labs Inc 6121 W Grove St Skokie Ill 37-39
Intl Pump & Machine Works 81 Dorsia Ave Livingston NJ 39	Minor Rubber Co Ackerman St Bloomfield NJ 7-10-22-40	Radiation Instrument Development Lab Inc 6737 S Halsted St Chicago 21 Ill 39
Isotopes Specialties Co Box 688 Burbank Calif 87-39	Molded Fiber Glass Co 4801 Benefit Ave Ashtabula Ohio 24	Radio City Products Co Centre & Glendale Sts Easton Pa 8
Janco Corp 3111 Winona Ave Burbank Calif 12-26	Molded Products Div Admiral Corp Washington & Creamery Rd W Chicago Ill 5	Radio Corp of America Commercial Electronic Products Front & Cooper Sts Camden NJ 8-10-11-24
Jan Hardware Mfg Co 75 N 11 St Brooklyn 11 NY 10-30		Radio Essentials Inc 152 Macquesten Pkwy Mt Vernon NY 2-3-4-6-11-13 20-21-24-25-26

Raytheon Mfg Co Commercial Equip Div
100 River St Waltham 54 Mass 6-11-25
Reiner Electronics Co
Centre & Glendale Sta Easton Pa 30
Remier Co
2101 Bryant St San Francisco Calif 19
Repach Pacific Div Arnold Engg Co
641 E 61 St Los Angeles 1 Calif 38
Revere Corp of America
N Colony Rd Wallingford Conn 8-46
Richards Electrocraft Inc
4432 N Kedmi Ave Chicago 18 Ill 3-11
Kodiale Mfg Co
6 & Minor Sts Emmaus Pa 29
Rogers Corp
Rogers Conn 22-40
Rosenau Harris & Co
Ontario & I Sta Philadelphia 34 Pa 8
Rowe Industries
1702 Wayne St Toledo 0 Ohio 8
Rue Products
1628 Venice Blvd Venice Calif 31-32-38-40
Safetee Glass Co
417 Stenton Ave Philadelphia 44 Pa 8
Sag Harbor Industries
Box N Sag Harbor NY 1
Sangamo Electric Co
11 & Converse Springfield Ill 24
Saratoga Industries
Congress & Ballston Aves
Saratoga Springs NY 8
Saratoga Plastics Inc
N Walpole N.H. 8
Saxton Products Inc
1861 Boone Ave New York 60 NY 7
Schuyler Mfg Corp
84 Forete Ave N Arlington NJ 45-46
Scientific-Atlanta Inc
2152 Piedmont Rd NE Atlanta 9 Ga 1
Sealedro Corp
610 Fayette Ave Mamaroneck NY 11-13-14
Semrow Products Co
4317 N Ravenswood Ave Chicago 13 Ill 47
Sheltered Workshop
2521 5th St Santa Monica Calif 8-20-22
Shielding Inc
N Read Ave Riverside NJ 38-41-42-43-47
Sightmaster Corp
50 Aleppo St Providence RI 25-26-27-28-29
Sinclair Mfg Co
S Worcester St Chertley Mass 13-20-24
Sittler Corp
15 N Ada St Chicago 7 Ill 46
Smith Inc Herman H
2326 Nostrand Ave 6-7-11-13-19-20
Brooklyn 10 NY 21-24-25-26-45
Southern Plastics Co
105 Pendleton SC 45
Sparta Mfg Co
Dover Ohio 22
Specialty Engg & Electronics Co
39 Clifton Pl Brooklyn 38 NY 8
Spinform Inc
65 Mechanic St Attleboro Mass 38-44
Spring Packing Corp
332 S Michigan Ave Chicago 4 Ill 23
Standard Electric Time Co
89 Logan St Springfield 2 Mass 11
Star-A Electric Mfg Co
289 Meserole St Brooklyn 6 NY 27-29
Star Expansion Products
719 A Second Ave New York NY 17
States Co
19 New Park Ave Hartford 6 Conn 6
Slawer Co
41-51 N Saxon Ave 25-26-31-32-
Hay Shore LI NY 35-37-39-45
Stein Mfg Co Wm
43 Bruen St Newark 5 NJ 6
Strat-O-Seal Mfg Co
3039 W Fullerton Ave Chicago 47 Ill 24
Stromberg-Carlson Div General Dynamics Corp
100 Carlson Rd Rochester 3 NY 11
Suffolk Products Corp
Woodbine & Scudder Ave Northport NY 38
Superex Electronics Corp
58 Marbledale Rd Tuckahoe NY 11
Switchcraft Inc
1329-30 N Halsted St Chicago 30 Ill 3-10-11
Sylvania Electric Products Inc
1740 Broadway
New York 19 NY 4-17-18-19-25-45
Sylvania Electric Products Inc Parts Div
12 2nd Ave Warren Pa 2-4-5-17-18-19-25-45
Symphony Electronics Corp
925 S Western Ave Los Angeles 6 Calif 19
Taffet Radio & TV Co
2-05 Brooklyn-Queens Expressway W
Woodside 77 NY 5-6-8
Ta-Mar Inc
11571 W Jefferson Blvd Culver City Calif 7
Taurus Corp
8 Corvett St Lambertville NJ 17-24
Technical Oil Tool Corp
1057 N La Brea Los Angeles 38 Calif 8
Technical Tape Corp
240 North Ave New Rochelle NY 23
Technicraft Co
1156 Commonwealth Ave Boston 34 Mass 6
Techniques Inc
52 Jackson Ave Hackensack NJ 32-42
Telectro Industries Corp
35-18 37 St Long Island City 1 NY 39
Telegraph Construction & Maintenance Co Ltd
Mercury House Theobalds Rd
London W C 1 England 30-38-41-42-45

Telephonics Corp
Park Ave Huntington LI NY 11
Teleradio Eng'g Corp
Shannon & Barrett Sts Wilkes-Barre Pa 11
Telex
1633 Eustis St St Paul 1 Minn 11-17
Thale Eng'g Corp
2104 E Villa St Pasadena Calif 8-31-36-43
Titeflex Inc
Hendee St Springfield 4 Mass 36
Topatron Inc
942 E Ojai Ave Ojai Calif 32-38-39-41-43-47
Topp Industries Inc
5255 W 102 St Los Angeles 45 Calif 8
Tracerlab Inc
1601 Trapelo Rd Waltham 54 Mass 37-39
Transdyne Corp
88-15 57th Dr Maaspath 78 NY 8
Trico Fuse Mfg Co
2945 N 5 St Milwaukee 12 Wisc 27-29
Tri-Dex Electronics
P O Box 1207 Lindsay Calif 8-24
Trim Inc
400 W Lake St Libertyville Ill 11
Tru-Connector Corp
416 Union St Lynn Mass 7
Union Electronics & Machine Corp
71 Broadway Wakefield Mass 1-7
United Mineral & Chemical Corp
18 Hudson St New York 13 NY 20-21-23
United Screw & Bolt Corp
2513 W Cullerton St Chicago 8 Ill 13
United Transformer Corp
150 Varick St New York 13 NY 38
U S Plastic Molding Corp
Carlton St Wallingford Conn 8-24-26
U S Plywood Corp
56 W 44 St New York 36 NY 39-43
U S Rubber Co
1230 6 Ave New York 20 NY 23
Vaco Products Co
317 E Ontario St Chicago 11 Ill 21-24
Vector Electronic Co
1100 Flower St
Glendale 1 Calif 4-5-19-24-45
Vidair Electronics Mfg Corp
44 Church St Baldwin NJ 4-5
Virginia Electronics Co
River Rd & B & O R R
Washington 16 DC 4-8-24
Vitrocal Corp
P O Box 6048 708 E 106 St
Indianapolis 20 Ind 24
Vocalite Screen Corp
10 Delevoise Ave Roosevelt NY 23
Wade Electric Products Co
Box 271 Sturgis Mich 18-24
Waldom Electronics Inc
4625 W 53 St
Chicago 32 Ill 6-10-13-19-20-21-24
Waltham Hirurgical Corp
395 Lynnway Lynn Mass 7-11
Waltham Sewing Co
77 Rumford Ave
Waltham 54 Mass 6-7-20-21-24
Warren Corp
2901 Brighton Rd Pittsburgh 12 Pa 37-30
Waterbury Pressed Metal Co
300 Chase Ave Waterbury Conn 13
Westbury Electronics Inc
300 Shames Dr Westbury NY 7-8
Western Felt Works
4029 Gorden Ave Chicago Ill 40
Western Intl Co
45 Vesey St New York 7 NY 3-7
Westinghouse Electric Corp
P O Box 868 Pittsburgh 30 Pa 25-26-27
Westlake Plastics Co
133 W Lenni Rd Lenni Mills Pa 40
Westline Products Div Western Lithograph Co
600 E 2 St Los Angeles 54 Calif 28
Wheaton Co T C
Millville NJ 24
Whitaker Cable Corp
1301 Burlington St N Kansas City 16 Mo 46
Whitao Inc
9330 Byron St Schiller Park Ill 11-24
Wilmar Mfg Co
1110 Truman Rd Kansas City Mo 4
Winder Aircraft Corp of Fla
P O Box 2397 Drane Fld
Lakeland Fla 2-3-4-10-11-12-43
York Co Inc Otto H
6 Central Ave W Orange NJ 32-34-39-46
Young Spring & Wire Co Ganset Div
801 S Main St Burbank Calif 10
Zierick Mfg Corp
Beechwood & Rockdale Ave
New Rochelle NY 25
Zippertubing Co
752 S San Pedro St
Los Angeles 14 Calif 8-35-37-38-30

**15—CHEMICALS, COATINGS
& RELATED PRODUCTS**

Adhesives 1
Binders, liquid 2
Cement 3
Ceramics, high temperature ... 4
Chemicals, dehumidifying 5
Chemicals, electroplating 6

Chemicals etching 7
Chemicals, fluorescent 8
Chemicals, phosphorescent 9
Chemicals, photosensitive 10
Chemicals, radioactive 11
Chemicals, wire stripper 12
Cleaners, contact 13
Coatings, printed circuit 14
Coatings, protective 15
Coil dope 16
Compounds, cleaning 17
Compounds, waterproofing 18
Enamels 19
Finishes, wrinkle 20
Flux, brazing & soldering 21
Fungicides 22
Greases, vacuum 23
Ink, marking 24
Lacquer 25
Lubricants 26
Materials, fluorescent 27
Paint, conductive 28
Paint, metallic 29
Paint, resistive 30
Phosphors, b&w TV tube 31
Phosphors, color TV tube 32
Pitch 33
Plastic, electrically conductive 34
Resins, encapsulating 35
Rubber, conductive 36
Selenium 37
Silicones 38
Silverpaste 39
Solvents 40
Varnish 41
Wax 42

Ace Electric Mfg Co
1458 Shakespeare Ave New York 52 NY 3-40
Acheson Colloids Co
1951 Washington Ave Port Huron Mich 14-26
Arma Wire Co
1255 Dixwell Ave New Haven 14 Conn 25-41
Acoustica Associates
26 Windsor Ave Mineola NY 17
Adhesive Products Corp
1680 Buone Ave
New York 60 NY 1-2-3-14-15-16 25-35-40
Airflyte Electronics Co
535 Avenue A Bayonne NJ 34
Akron Rubber Co
53 Warren St New York 7 NY 36
All-State Welding Alloys Co
249 Ferris Ave White Plains NY 21
Alpha Metals Inc
56 Water St Jersey City 4 NJ 21
Alpha Molykote Corp
65 Harvard Ave Stamford Conn 26
Aluminum Co of America
1501 Alcoa Bldg Pittsburgh 19 Pa 4-5
Ambroid Co
Box 30
Weymouth 88 Mass 1-3-15-16-19-25-40-41
Americoal Corp
4808 Pitestone Blvd South Gate Calif 15-29-30
American Chemical Paint Co
Amber Pa 7-15
American Lava Corp Subs Minn Mining & Mfg
Cherokee Blvd & Mfrs Rd
Chattanooga 5 Tenn 4
American Metal Climax Inc
61 Broadway New York 6 NY 37
American Platinum Works
231 NJRR Ave Newark 5 NJ 31
American Silver Co
3607 Prince St Flushing 54 NY 21
American Solder & Flux Co
19 & Willard St Philadelphia 40 Pa 16-21
Amperon Associates H V
233 Broad St Summit NJ 21-28-39
Anton Electronic Labs
1226 Flushing Ave Brooklyn 37 NY 11
Arco Co
7301 Bessemer Ave
Cleveland 27 Ohio 15-18-19-25-41
Aries Labs Inc
45-33 Dixavia St
Long Island City 1 NY 1-3-12-14-15-18-34-35
Associated Eng & Mfg Corp
210 Stonehouse Bld
Glen Ridge NJ 8-9-27-31-32
Atkinson Lab Inc
7070 Santa Monica Blvd
Los Angeles Calif 10-14
Atlas Mineral Products Co
Mertztown Pa 1-3-15
Auburn Mfg Co
Pease Ave & Stack St Middletown Conn 36
Babbitt Chemical Co
38 Prospect St New Bedford Mass 1-3-18-30
Bacon Industries
192 Pleasant St Watertown 72 Mass 1-35
Bakelite Co Div Union Carbide & Carbon Corp
30 E 42 St New York 17 NY 1-15-34-38
Baker Chemical Co J T
Phillipsburg NJ 7

Maker & Co
113 Astor St Newark 2 NJ 6

Barco Chemical Products Co
701 S LaSalle St Chicago 6 Ill 6-13-17

Barium & Chemicals Inc
Willoughby Ohio 4-5-6

Barrett Div Allied Chemical & Dye Corp
10 Rector St
New York 6 NY 1-2-3-15-18-19-22-26-30-33-35-40-41

Barrett Varnish Co
1522 S 50 Court
Cicero 50 Ill 3-15-19-20-25-41

Belding Corticelli Industries Inc
1407 Broadway New York 18 NY 19-28

Belmont Smelting & Refining Works
330 Belmont Ave Brooklyn 7 NY 21

Bendix Aviation Corp
1104 Fisher Bldg Detroit 2 Mich 4-17

Bergen Labs
247 Crooks Ave Clifton NJ 6

Biggs Co Carl H
2255 Barry Ave
Los Angeles 64 Calif 1-3-14-15-16-18-35

Bio-Rad Labs
400 Delaware St Berkeley Calif 5-11

Bioa Labs Inc
1-2-3-4-5-6-7-8-9-10-11-12-13-17
17 W 60 St 14-15-16-17-18-19-20-21-22-23-26
New York 23 NY 24-25-26-27-28-29-30-31-32-33-34-35-36-37-38-39-40-41-42

Bloomington Rubber Co
1 Flower St Chester Pa 1

Borden Co Chemical Div
855 Madison Ave
New York 17 NY 1-3-15-18

Baruski Jr Ernest F
290 Riverside Dr New York 25 NY 2-35

Bow Solder Products Co
251 Freeman St Brooklyn 22 NY 21

Bram Metallurgical-Chemical Div
830 E Ave Philadelphia 26 Pa 37

Brooklyn Paint & Varnish Co
60 Jay St Brooklyn 1 NY 14-15

Burnley Battery & Mfg Co
103 Clay St North East Pa 21

Rutcher Co L H
3528 E Olympic Blvd
Los Angeles Calif 5-6-7-18-15-17

Caig Labs
40 Stanwood Rd New Hyde Park NY 13-26

Canadian Radium & Uranium Corp
630 S Ave New York 20 NY 1-8-9-11-27

Carbide & Carbon Chemicals Co
Div Union Carbide & Carbon
30 E 42 St New York 17 NY 5-6-7-17-22-40

Carbolite Co
82 Hanley Ind Ct St Louis 19 Mo 1-15

Central Coil Co
1720 N Luett St Indianapolis 22 Ind 1-15

Central Scientific Co
1700 Irving Park Rd Chicago 13 Ill 3-23

Ceramtronics Inc
164 Highland Ave Passaic NJ 4

Chemical Commerce
166 Clifford St Newark 5 NJ 6

Chemical Development Corp
Endicott St Danvers Mass 1-15-17-26-35

Chemical Products Corp
Kings Philip Rd E
Providence 14 RI 14-15-18-19-24-26-35-40

Ciba Co Plastics Div
Kimberton Pa 35

City Chemical Corp
132 W 22 St
New York 11 NY 5-6-7-8-9-17-21-22-37-40

City Marking Devices Corp
12 Spruce St New York 38 NY 24

Clowes Ceramic Corp
3711 Lighthouse Ave Chattanooga 7 Tenn 4

Coburn Inc
Passaic Ave Caldwell NJ 13

Colonial Alloys Co
Ridge Ave & Crawford St
Philadelphia 29 Pa 15-17-40

Columbia Technical Corp
61-02 31 Ave Woodside 77 NY 14

Comar Products
Box 776 Butler NJ 36

Communications Products Co
Marlboro NJ 25

Conn Hard Rubber Co
P U Box 1911 New Haven 9 Conn 3-15-36

Consolidated Electrodynamics Corp
300 N Sierra Madre Villa Pasadena Calif 4

Constad Labs
85-02 162 St Jamaica NY 1-15-17-29

Continental-Diamond Fibre Corp
Newark Del 38

Cooper Co D C
1467 S Michigan Ave Chicago 5 Ill 15-17-40

Cox & Co
115 E 23 St New York 10 NY 1

Craig Systems Inc
Holten St Danvers Mass 3

Crown Industrial Products Co
713 Amsterdam
Woodstock Ill 15-19-24-26-34-40

Diamondite Products Mfg Co
1232 Cleveland Ave N W Canton Ohio 4

Diets Co Henry G
12-16 Astoria Blvd Long Island City 2 NY 10

Dietsen Co Eugene
2425 N Sheffield Ave Chicago Ill 24

Division Lead Co
747 W 61 St Summit Ill 13-14-21

Dixon Crucible Co Joseph
167 Wayne St Jersey City 3 NJ 15-19-26-29

Dow Corning Corp
Box 592 Midland Mich 1-15-18-26-39

Drakenfeld & Co R F
45 Park Pl New York 7 NY 89

Drakenfeld & Co B F
Box 519 W Wylie Ave
Washington Penna 28-37-39

Dry Screen Process Inc
1016 Madison Ave Pittsburgh 12 Pa 14-17-30

Du-Co Ceramics Co
Box 278 Saxonburg Pa 3-4

Dunton Co M W
7 Goff St Providence RI 21

Du Pont de Nemours & Co E I
Wilmington 98 Del 1-3-4-8-9-10-14-15-17-18-19-21-22-25-27-28-29-30-31-32-35-40-41

Duramic Products Inc
262 72 Mott St New York 12 NY 1-3-4-35

Durez Plastics Div Hooker Electrochemical Co
1926 Walck Rd Niagara Falls NY 40

Dwyer Eng'g Co
Pine St Ext Nashua NH 14

Eastern Chemical Corp
34 Spring St Newark 4 NJ 6-8-9

Eby Sales Co
130 Lafayette St New York 13 NY 26

Electrical Specialty Co
158 11 St
San Francisco 3 Calif 1-3-19-25-26-41-42

Electro-Chemical Eng'g & Mfg Co
750 Broad St Emmaus Pa 3-15-18-30

Electrofilm Inc
7116 Laurel Canyon Blvd
N Hollywood Calif 26

Electric Plastics Corp
675 Barbey St Brooklyn 7 NY 1-14-15-35

Electro-Technical Products
Div Sun Chemical Corp
113 E Centre St Nutley NJ 15

Elgin National Watch Co
107 National St Elgin Ill 26

Ellana Chemical Co
2508 Oakton St Evanston Ill 13-21-35

EMC Recordings Corp
806 E 7 St St Paul 6 Minn 13-26

Emerson & Cuming Inc
869 Washington St
Canton 1 Mass 1-3-4-14-15-25-26-28-29-30-34-35-38-39-40

Engelhard Ind Inc
Amer Platinum & Silver Div
231 N J RR Ave Newark NJ 21

Ethone Inc
442 Elm St
New Haven 8 Conn 6-7-12-14-17-42

Epoxy Products Div Jos Waldman & Sons
133 Coit St Irvington NJ 35

Farelloy Co
1243 N 26th St Phila Pa 21

Felsenthal & Sons Inc G
3500 N Kedzie Ave Chicago 18 Ill 1-4

Fibre Glass Evercoat Co
7220 Vine St Cleveland 16 Ohio 14-15

Fidelity Chemical Products Corp
470 Frelinduszen Ave
Newark 12 NJ 6-7-12-13-14-15-17-19-20-25-29-40-41

Fisher Scientific Co
711 Forbes St
Pittsburgh 22 Pa 5-6-7-10-13-40-42

Flamemaster Chemical Inc
3813 Hoke Culver City Calif 15-20-26-29

Floqui Products Inc
Cobleskill NY 24

Frenchtown Porcelain Co
Frenchtown NJ 4

Fuller Co H B
255 Eagle St St Paul 2 Minn 1-14-15-35

Furane Plastics Inc
4516 Brazil St Los Angeles 39 Calif 35

Gates Electronic Co
2090 Barnes Ave Bronx 62 NY 37

General American Transportation Corp
135 S LaSalle St
Chicago 90 Ill 14-15

General Cement Mfg Co Div Tectron Inc
400 Wyman St
Rockford Ill 1-12-13-14-15-16-17-18-19-20-22-25-26-28

General Chemical Div
Allied Chemical & Dye Corp
40 Rector St New York 6 NY 5-6-7-8-9-11-14-37-40

General Electric Co
Silicone Products Dept
Waterford NY 1-15-26-38

General Electric Co
21800 Tungsten Rd
Cleveland 17 Ohio 31-32

General Mills Inc Chemical Div
S Kensington Rd Kankakee Ill 35

General Plastics Corp
165 S Ave Paterson 4 NJ 34

George Co P E
5200 N 2nd St
St Louis 7 Mo 15-19-25-29-40-41

Glaser Lead Co
31 Wyckoff Ave Brooklyn 37 NY 21

Glasiac Corp
4221 Glenridge Bl Cleveland 21 Ohio 34

Goldsmith Bros Smelting & Refining Co
1300 W 59 St Chicago 36 Ill 21

Goodrich Industrial Products Co B F
500 S Main St
Akron 18 Ohio 1-2-3-14-15-30-36

Grafo Colloids Corp
310 Wilkes Pl Sharon Pa 26

Green Rectifier Co
1-10 30 St Fairlawn NJ 23-27

Gulton Industries Inc
212 Durham Ave Metuchen NJ 4

Hagan Chemicals & Controls Inc
343 4 Ave Pittsburgh 80 Pa 17

Handy & Harman
3825 Medford St
Los Angeles 63 Calif 21-28-39

Handy & Harman
82 Fulton St
New York 38 NY 14-21-28-29-39

Harshaw Chemical Co
1945 E 97 St Cleveland 6 Ohio 6-7

Haynes Labs Inc C W
61 Chandler St
Springfield 9 Mass 1-2-3-15-16-19-22-25-28-40

Henry & Miller Industries Inc
675 Garfield Ave Jersey City 6 NJ 20

High Vacuum Equipment Corp
2 Churchill Rd Hingham Mass 23

Hi Grade Alloy Corp
1236 S Talman Chicago 8 Ill 12-21

Hi-Test Chemical Corp
722-64 St Brooklyn 20 NY 42

Hommel Co O
209 4 Ave Pittsburgh 22 Pa 19-39

Hooker Electro Chemical Co
28 Iroquois St Niagara Falls NY 17-40

Hopper Chemical Corp
PO Box 313 Rutherford NJ 6-7-10-11-37

Houghton Laboratories Inc
322 Houghton Ave
Olean NY 1-3-14-15-28-85

Hunt Co Phillip A
Foot of Roosevelt Pl
Palisades Park NJ 7

Huron Industries
PO Box 557 Port Huron Mich 26

Illuminon Eng'g Co
680 E Taylor Ave Sunnyvale Calif 12

Indium Corp of America
1676 Lincoln Ave Utica 4 NY 8

Industrial Accessories Inc
Linden Rd Matawan NJ 36-38

Injection Molders Supply Co
3514 Lee Rd Cleveland 20 Ohio 26-38

Insulation Mfrs Corp
565 W Washington Blvd
Chicago 39 Ill 14-15-19-22-35-38-41

International Wax Refining Co
118 Union St Palisades Park NJ 8-10

Isoprene Hawthorne Ave Valley Stream NY 42

Isochem Resins Corp
221 Oak St
Providence 9 RI 1-2-3-14-16-17-24-28-30-34-35-38-40-41-42

Isocyanate Products Inc
900 Wilmington Rd New Castle Dela 35

Isomet Corp
118 Union St Palisades Park NJ 8-10

Isotopes Specialties Co
Box 688 Burbank Calif 11

Jorlin Mfg Co
Luthery Ave Wallingford Conn 38

Johns-Manville Dutch Brand Div
7800 Woodlawn Ave Chicago 19 Ill 1

Johns-Manville
22 E 40 St New York 16 NY 1-15-18

Kellorz Co M W
PO Box 469 Jersey City 3 NJ 16-24-25

Kemet Co Div Union Carbide & Carbon Corp
PO Box 6087 Cleveland 1 Ohio 16

Kendall Co Polymen Sales Div
309 W Jackson Blvd Chicago 20 Ill 15

Kesler Chemical Co Inc
State Rd & Cottman Ave
Phila 35 Pa 6-17-26-42

Kocour Co
4800 S St Louis Ave Chicago 32 Ill 6

Koppers Co
Koppers Bldg
Pittsburgh 19 Pa 1-15-18-29-30-33

Krylon Inc
18 W Airy St
Norristown Pa 15-19-24-25-26-41

Laboratory Equipment Corp
Lakeview & Hilltop Rd St Joseph Mich 4

La Moore C D
2433 Birkdale St
Los Angeles 31 Calif 35-38-41

Laa-Lab Inc
Route 32 Sykesville Md 39

Lawter Chemicals Inc
3550 Touhy Ave Chicago 45 Ill 8-9-27

Leadal Inc
2929 S Halsted Chicago Ill 17

Liberty Mirror Div Libbey Owens Frl Glass Co
851 Third Ave Brackenridge Pa 28

Lithium Corp of America
2500 Rand Tower Minneapolis 2 Minn 5

Liton Eng'g Labs
PO Box 949 Grass Valley Calif 26

Logo Inc/Div Roe Chemical Co
12904 S Stony Island Ave
Chicago 33 Ill 15-19-25-28-29

London Chemical Co
1535 N 81 Ave
Melrose Park Ill 7-12-13-14-15-17-18-21-40

L & R Mfg Co
677 Elm St Arlington NJ 3-13-17

Mass & Waldstein Co
2121 McCarter Hwy
Newark 4 NJ 19-25-28-29-30

Mackay Inc A D
198 Broadway
New York 38 NY 6-8-9-10-11-37-81-82-87

Mallinckrodt Chemical Works
2 & Mallinckrodt Sts
St Louis 7 Mo 8-10-22-27

Marlette Corp
1-10 30 St Fairlawn NJ 23-27

Marlette Corp
37-31 30 St
Long Island City 1 NY 1-2-3-14-15-18-25-35-41

Marbon Chemical Div Borg-Warner Corp
7165 Chicago Ave Gary Ind 1

Markem Machine Co 160 Congress St Keene NH	24	Photo Chemical Prod of Calif 1715 Berkeley St Santa Monica Calif	19-25-27-28-29-30	Superior Flux & Mfg Co 1536 St Clair Ave Cleveland Ohio	21
Markite Corp 155 Waverly Pl New York NY	34	Pilot Chemicals Inc 36 Pleasant St Watertown 72 Mass	8	Swedlow Plastics Co 6946 Handini Blvd Los Angeles 22 Calif	1
Markwik Mfg Co 31 Sexton Rd Plainview LI NY	34	Pittsburgh Plate Glass Co 1 Gateway Center Pittsburgh 22 Pa	3-15-17-18-19-20-22- 25-28-29-30-41-42	Sylvania Electric Products Inc 1740 Broadway New York 19 NY	8-9-25-27-31-32
Maryland Lava Co Box 205 Belair Md	4	Plasti-Kote Inc 9801 Howard Dr Cleveland 5 Ohio	15-19-20-25-29-30-41	Sylvania Electric Products Inc Parts Div 12 2nd Ave Warren Pa	4
Merck & Co Inc Chemical Div Rahway NJ	9	Polymer Corp 2120 Fairmont Ave Reading Pa	15	Synthane Corp Montgomery Ave Oaks Pa	34
Mevix Chemical Co 1021 E 55 St Chicago 15 Ill	5-15-17-26-28-34-36-42	Quietrol Co 395 St John St Spartanburg SC	13-26	Technicraft Co 1156 Commonwealth Ave Boston 34 Mass	35
Metal & Thermit Corp Rahway NJ	6-7-14-15-19-20-22-25-30	Radium Chemical Co 161 E 42 St New York 17 NY	8-9-11-27	Techniques Inc 62 Jackson Ave Hackensack NJ	7-10-14
Metz Refining Co 369 Mulberry St Newark 2 NJ	6-28-39	Ram Chemicals Inc 210 E Olive St Gardena Calif	1-2-14-15-17-18-19-25-35-40	Telectro Industries Corp 35-18 37 St Long Island City 1 NY	18
Mica Corp 4031 Elena St Culver City Calif	34	Randolph Products Co Carlstadt NJ	1-2-14-15-16-19-20-25-27-28-29	Telegraph Construction & Maintenance Co Ltd Mercury House Theobalds Rd London W C 1 England	1-15-34
Mico Instrument Co 40 Trowbridge St Cambridge 38 Mass	21	Raybestos-Manhattan Inc 61 Willett St Passaic NJ	1-14-15-16-38	Telradia Engrg Corp Shannon & Barrett Sta Wilkes-Barre Pa	14
Micro-Circuit Co New Buffalo Mich	14-15-28-29-30-36	Raybestos-Manhattan Inc Plastic Products Div Manheim Pa	1-2-3-14-15-34	Terrill Corp 19 Lane St Waltham 54 Mass	1-2-3-15-35-42
Midland Industrial Finishes Co E Water St Waukegan Ill	19-25-29-30-41	Raytheon Mfg Co Ceramic Sales Foundry Ave Waltham Mass	4	Thermal Refractories Corp 4501 Dell Ave N Bergen NJ	4
Midland Paint & Varnish Co 3901 E 91 St Cleveland 5 Ohio	24-29-30	Raytheon Mfg Co Microwave & Power Tube Operations Foundry Ave Waltham Mass	4	Thur Ceramics Inc 225 Belleville Ave Bloomfield NJ	4
Millen Mfg Co James 150 Exchange St Malden 48 Mass	16	Reichhold Chemicals Inc 525 N Broadway White Plains NY	1-2-35	Tickle Engrg Works Arthur 21 Delavan St Brooklyn 31 NY	18
Miller Dial & Nameplate Co 4400 N Temple City Blvd El Monte Calif	1	Reilly Tar & Chemical Corp 1615 Merchant Bank Bldg Indianapolis 4 Ind	15-33	Titanium Alloy Mfg Div Natl Lead Co 111 Broadway New York 6 NY	4
Mine Safety Appliances Co 201 N Braddock Ave Pittsburgh 8 Pa	22	Reliance Paint Co Corrosive Div 64 S 6th St Brooklyn 11 NY	30	Topper Mfg Co Inc 147-12 Liberty Ave Jamaica 35 NY	1-2-3-4-14-15-18-26-34-35
Minnesota Mining & Mfg Co 900 Hush Ave St Paul 6 Minn	35-38-41	Roberts Toledo Rubber Co 4143 Monroe St Toledo 6 Ohio	36	Tracerlab Inc 1601 Trapelo Rd Waltham 54 Mass	11
Minn Mining & Mfg Co Irvington Div 6 Argyle Terr Irvington NJ	41	Rogers Corp Rogers Conn	38	Tricon Mfg Co 8008 Wallace St Chicago 20 Ill	21
Minn Mining Mfg Co Jersey City Chemical Div 75 Droyer St Jersey City NJ	14-15-24-25-26	Roco Labs 29 Moore St Brooklyn 6 NY	1-3-7-13-24-25	Trimont Plastic Co 71 Dudley St Arlington 74 Mass	34
Minor Rubbers Co Ackerman St Bloomfield NJ	36-38	Rubber & Asbestos Corp 225 Belleville Ave Bloomfield NJ	1-2-3	TV Hardware Mfg Co Div Tectron Inc 400 S Wyman St Rockford Ill	13
Mitchell Rand Mfg Corp 51 Murray St New York 7 NY	35	Ruby Chemical Co 68-70 McDowell St Columbus 16 Ohio	21	U I S Chemical Corp 491 Main St Cambridge 42 Mass	1-3
Mitronics Inc 1280 Central Ave Hillside NJ	4	Rue Products 1624 Venice Blvd Venice Calif	35-36	Ultra-Violet Products Inc 5114 Walnut Grove Ave San Gabriel Calif	8-9-27
Modern Adhesives & Electronics Inc 131 Allen Blvd Farmingdale NY	1	Safetec Glass Co 4717 Stenton Ave Philadelphia 44 Pa	34	Union Carbide and Carbon Corp Silicones Div 30 E 42 St New York 17 NY	1-15-18-26-35-36-38-41
Mona Industries Inc 65 E 23 St Paterson 17 NJ	40	St Elbi Corp P O Box 507 Newtown Br Cincinnati 44 Ohio	1-3-4-6-7-8-9-10- 11-12-13-14-16-17-27-28- 29-30-39-40	United Mineral & Chemical Corp 16 Hudson St New York 13 NY	4-8-9-10-27-31-32
Montaine Corp 2446 S Prairie Ave Chicago 16 Ill	4-15	Sampson Chemical & Pigment Corp 2830 W Lake St Chicago 12 Ill	8-9-11-27	U S Radium Corp Morristown NJ	8-9-11-27-31-32
Moore Corp John H P O Box 3 Dept El Peerless Bldg Nuttley 10 NJ	5-12-13-17-40	Sauerisen Cements Co 1045 N Canal St Pittsburgh 15 Pa	1-2-3-15-30-41	U S Rubber Co 1230 6 Ave New York 20 NY	1-22
Morningstar-Paisley Inc 630 W 51 St New York 19 NY	1-2-3-15	Saxonburg Ceramics Saxonburg Pa	4	U S Stoneware Co Alite Div East Ave Tallmadge Ohio	1-4-15-30-35
Moyen Co C P 8157 N Monticello Ave Skokie Ill	1-3-15-16-25	Schenectady Varnish Canada Ltd 409 Comstock Rd Scarborough Ont Canada	14-15-35-41	Vitro Corp of America 261 Madison Ave New York 16 NY	15
Mycalex Corp of America 125 Clifton Blvd Clifton NJ	4	Scherma Mfg Co M A Congress St & 9 Ave Schenectady 8 NY	2-14-15-16-18-19-30-35-41	Vocalite Screen Corp 19 Debevoise Ave Roosevelt NY	29
Narmco Resins & Coatings Co 500 Victoria St Costa Mesa Calif	1-15-35	Sel Rex Corp 75 River Rd Nutley 10 NJ	6-7-12-14-15-17	Vopac Co 147 Meadow Rd Rutherford NJ	14
National Cash Register Co Main & K Sta Dayton 9 Ohio	24	Seymour Mfg Co 200 Franklin St Seymour Conn	6	Waldom Electronics Inc 4625 W 53 St Chicago 32 Ill	19-25
National Metallizing Corp Du Pont Circle Blvd Washington 6 DC	34	Shannon Luminous Materials Co 7356 Santa Monica Blvd Hollywood 46 Calif	8-9-27	Walsco Electronics Mfg Co 100 W Green St 1-2-3-13-14-15-16-17-18-19-20- Rockford Ill 21-23-25-26-30-35-37-38-40-41-42	42
National Vacuum Platers Inc 2633 E Hager St Phila 25 Penna	15	Sherwin-Williams Co 101 Prospect Ave Cleveland 1 Ohio	19-25-28-29-30-40	Wax Corp of America 21-29 Dupham Pl Brooklyn 11 NY	42
Naz-Dar Co 465 Milwaukee Ave Chicago 10 Ill	14-27-30	Single Crystal Corp of America Saxonburg Blvd Saxonburg Pa	8-9-11	Western Felt Works 4029 Orden Ave Chicago Ill	36-38
Nesvil Products Div Rubber Associates 745 5 Ave New York 22 NY	20-36	Smooth-On Mfg Co 572 Communipaw Ave Jersey City 4 NJ	1-5-35	Western Gold & Platinum Co 525 Harbor Blvd Belmont Calif	6-28-39
New England Tape Co 30 Tower St Hudson Mass	1-3-14-15-18-35	Sonneborn Sons L Rldg Prods Div 404 4 Ave New York 16 NY	1-15-17-18-19-25- 29-30-38-41-42	Wildberg Bros Smelting & Refining Co 742 Market St San Francisco 2 Calif	6-14-21
New Jersey Wood Finishing Co Amboy Ave Woodbridge NJ	41	O S Cinema Supply Corp 602 W 52 St New York 19 NY	24	Wisconsin Porcelain Co 121 Lincoln St Sun Prairie Wisc	4
Nopco Chemical Co Harrison NJ	1-2-17-18-20-26-34-42	Sparta Mfg Co Dover Ohio	15	Workman TV Inc 309 Queen Anne Rd Teaneck NJ	1-13-26
Norton Co 1 New Bond St Worcester 6 Mass	4-15	Special Chemicals Corp 100 S Water St Ossining NY	7-21-28-29	Zophar Mills Inc 112 26 St Brooklyn 32 NY	1-15-17-18-33-42
Nuclear-Chicago Corp 223 W Erie St Chicago 10 Ill	11	Spraylat Corp 1 Park Ave New York 16 NY	15-18		
Nuclear Corp of America 400 Park Ave New York 22 NY	11	Spring Packing Corp 332 S Michigan Ave Chicago 4 Ill	15		
Nucleonic Corp of America 196 Degraw St Brooklyn 31 NY	11	Stanley Chemical Co Berlin St E Berlin Conn	1-2-15-18-19-20-25-30-34-11-12		
Nukem Products Corp 111 Exchange Ave Buffalo 20 NY	1-2-8-15-30-35	Steel Protection & Chemical Co Bridge St Mooreville Ind	15-30-38		
Nye Inc Wm F 10 Howland Rd Fairhaven Mass	26	Sterling Varnish Co Haysville Brough Sewickley Pa	41		
Oakite Products Inc 79 Rector St New York 6 NY	6-7-15-17-40	Stevenson Bro 110 Race St Philadelphia 6 Pa	15-18-26-42		
Olin Mathieson Chemical Corp 460 Park Ave New York 22 NY	22-40	Strobrite Co 75 W 45 St New York 36 NY	8-9		
Organic Development Corp 10052 Larson Ave Garden Grove Calif	1-14-24	Stupakoff Div Carborundum Co Latrobe Pa	4		
Permacel-Le Pages Inc U S Hwy 1 New Brunswick NJ	1-10-14-35-41	Sun Chemical Corp 10-10 44 Ave Long Island City 1 NY	15-25		
Pfaudler Co 1000 West Ave Rochester 3 NY	4	Superex Electronics Corp 58 Marbledale Rd Tuckahoe NY	17-26		
Phelps Dodge Refining Corp 300 Park Ave New York 22 NY	22-37				
Philadelphia Quartz Co 1146F Public Ledger Bldg Philadelphia 6 Pa	1-2				
Phillips Mfg Co 3475 W Touhy Ave Chicago 45 Ill	13-17				
Phillips Process Co 192 Mill St Rochester 14 NY	24				

16-CHOKES

Chokes, A-F	1
Chokes, filter	3
Chokes, heavy-wire	4
Chokes, power	5
Chokes, relay	6
Chokes, R-F receiving	7
Chokes, R-F transmitting	8

Ace Coll & Electronics Co 914 Lincoln Hwy Metuchen NJ	7-8
Aerolite Electronics Corp 2207 Summit Ave Union City NJ	1-3-4-6-7-8
Aerovox Corp 740 Belleville Ave New Bedford Mass	1-3-5-7-8
Aerovox Corp Pacific Coast Div 2724 S Peak Rd Monrovia Calif	1-2-3-4-5-7-8
Airdesign Corp 241 Fairfield Ave Upper Darby Pa	1-3-4-5
Airpax Products Co Seminole Div City of Plantation Ft Lauderdale Fla	1-5
Airtion Inc 1108 W Elizabeth Ave Linden NJ	7-8

Aladdin Electronics Div Aladdin Industries 793 Murfreesboro Rd Nashville 10 Tenn	3-7	Decoursey Eng'g Lab 11828 W Jefferson Blvd Culver City Calif	1-3	Inductor Eng'g Inc 117 Schley Ave Lewes Del	1-3-4-5
Alcra Div Consolidated Electrodynamics Corp 325 N Altadena Dr Pasadena Calif	1-3	Diamond Coils Inc 540 39 St Union City NJ	1-2-5	Industrial Transformer Corp Gouldsboro Pa	1-3-4-5-6-7-8
American Coil Inc 21-28 45 Rd Long Island City 1 NY	7	DX Radio Products Co 2300 W Armitage Ave Chicago 47 Ill	1-3-4-5-7-8	Insuline Corp of America 186 Granite St Manchester NH	7-8
American Rectifier Corp 95 Lafayette St New York 15 NY	3-4-5	Eastman Pacific Co 2320 E 8 St Los Angeles 21 Calif	1-2-3-7	James Vihrapower Co Acam Div 109 W 8 St Gibson City Ill	1-3-7
American Research Mfg Corp 920 Halpine Ave Rockville Md	3-5	Ecor Inc P O Box 354 McLean Va	1-3	Johnson Co E F 206 2 Ave S W Waseca Minn	7-8
Amp Inc Capitor Div 155 Park Ave Elizabethtown Pa	3	Electran Mfg Co 1901 Clybourn Ave Chicago 14 Ill	1-3-4-5	Johnsohn Electronics Inc P O Box 1675 Hwy 17-92 Caselberry Fla	1-3-4-7-8
Amplifier Corp of America 398 Broadway New York 13 NY	3	Electrical Windings Inc 2015 N Kolmar Ave Chicago 39 Ill	1-3-4-5-6	Kenyon Transformer Co 840 Barry St New York 59 NY	1-3-4-5
Apex Coil & Transformer Corp 1919 S Fairfield Ave Chicago 8 Ill	1-3-4-5-6	Electro Assemblies Inc 4444 N Kedzie Ave Chicago 25 Ill	3-4-7-8	Knopp Inc 1307 66th St Oakland 8 Calif	3
A P W Co 72 W Main St Rockaway NJ	3	Electro Eng'g Works 401 Preda St Leandro Calif	1-3-4-5	K V Transformer Corp 20 E Franklin St Danbury Conn	1-3-4-5
Arco Transformer Electric Corp 1602 S Hanna St Ft Wayne 5 Ind	1-3-4-5-6	Electronic Coils Inc P O Box 1665 Springfield Mass	1-3-4-5-6-7-8	Langevin Mfg Corp 47-37 Austell Pl Long Island City 1 NY	1-2-3-4-5
Ardente Acoustic Labs Ltd Minerva Rd London NW 10 England	1	Electronic Components 2655 W 19 St Chicago 8 Ill	1-3-4-5-6-7-8	Lehigh Valley Electronics Eng'g & Mfg Co 215 S 3 St Allentown Pa	3-7-8
Arted Co 367 Worthington St Springfield 3 Mass	3-4-6-7-8	Electronic Production & Development 138 Nevada St El Segundo Calif	1-3-4-5	Leonard Electric Products Co 67 34 St Brooklyn 32 NY	3-7-8
Atlas Coil Corp 63 Main St Ansonia Conn	1-3-4-5-6-7-8	Electronic Research Associates 67 Factory Pl Cedar Grove NJ	1-3-4-5	Linell Eng'g Corp Chas S 447 S Blvd Oak Park Ill	7-8
Atlas Eng Co 176 Blue Hill Ave Roxbury 19 Mass	1-3-4-5-6-7-8	Electronic Specialty Co 5121 San Fernando Rd Los Angeles 39 Calif	3-7	Linar Inc 4101 San Fernando Rd Glendale 4 Calif	1-3-4-5
Audicon Electronics Inc 216 Lyon St Paterson 4 NJ	7-8	Electronic Transformer Co 70 Washington St Brooklyn 1 NY	1-3-4-5	Litton Industries of Calif 336 N Foothill Rd Beverly Hills Calif	1-2-3
Audio Development Co 2833 13 Ave Minneapolis Minn	1-3-5	Electro Mfg Co Inc 2800 W Cullom Ave Chicago 18 Ill	7-8	Lynmar Engineers Inc 1432 N Carlisle St Philadelphia 21 Pa	7-8
Avion Div ACP Industries Inc 11 Park Pl Paramus NJ	3	Engineered Magnetics Div Gulton Industries Inc 13030 Cerise Ave Hawthorne Calif	3	Macleod & Hanopol 10 Roland St Charlstown 29 Mass	7
Avnet Electronic Supply Co 36 N Moore St New York 13 NY	3	Ensign Coil Co 2520 S Pulaski Chicago 23 Ill	1-3-6-7	Magnatran Inc P O Box 211 Kearny NJ	3-5
Barker & Williamson Inc Canal & Beaver Sts Bristol Pa	7-8	Epo Products Inc 2500 Atlantic Ave Brooklyn 7 NY	1-3-4-5	Magnavox Corp 2131 Bueter Rd Ft Wayne 4 Ind	1-3
Barwood Electronics Inc 921 E Broadway Glendale 5 Calif	1-3-4-5	Essex Electronics 550 Springfield Ave Berkeley Heights NJ	7-8	Magnetic Circuit Elements Inc 3722 Park Pl Montrose Calif	3
Basler Electric Co Box 269 Rt 143 Highland Ill	3-4-5	Essex Electronics 99 Wragge St Trenton Ont Canada	7-8	Marine View Electronics Inc 28 Main St White Plains NY	1-3-4-5-6-7-8
Bell Aircraft Corp P O Box 1 Buffalo 5 NY	1-3	Essex Electronics Div NYT Electronics Inc 7803 Atoll N Hollywood Calif	7-8	Merit Coil & Transformer Corp 2027 Sherman St Hollywood Fla	1-3-4-5-7-8
Bellaire Electronics Inc 62 White St Red Bank NJ	4-7	Essex Wire Corp Magnetic Winding Inc Easton Pa	1-3-4-5-6	Microtran Co 145 E Mineola Ave Valley Stream NY	1-3-4-5
Berkshire Transformer Corp Route 341 Kent Conn	1-3-4-5-7-8	Ferranti Electric Inc 30 Rockefeller Plaza New York 20 NY	1-3-4-5	Millen Mfg Co James 150 Exchange St Malden 48 Mass	7-8
Better Coil & Transformer Corp Goodland Ind	1-3-4	Filter Co 10023 W Jefferson Blvd Culver City Calif	3-3-4	Miller Co J W 5917 S Main St Los Angeles 3 Calif	3-4-7-8
Bittermann Electric Co Barlow St Canaan Conn	1-3-4-5	Fisher Eng'g Inc P O Box 327 Huntington Ind	1-3-4-5	Miller Co Sanford 691 Bedford Ave Brooklyn 6 NY	4-5
Birford Components Inc 65 South Ave Salamanca NY	3-7-8	Forbes & Wagner Inc 343 Central Ave Silver Creek NY	1-3-4-5-6-7-8	Minitran Corp 5 Oliver St Newark 2 NJ	1-3-4-5
Broadway Coil Co 5638 Broadway Chicago 40 Ill	6-7-8	Forest Electric Co 7216 Circle Ave Forest Park Ill	3	Minn-Honeywell Regulator Co Aeronautical Div 2600 Ridgway Ave Minneapolis 13 Minn	3-5-6
Burnell & Co 10 Pelham Pkwy Pelham Manor NY	1	Foster Transformer Co 3820 Colerain Ave Cincinnati 23 Ohio	1-3-5	Mohawk Business Machines Corp 944 Halsey St Brooklyn 33 NY	1-3-4-5-6-7-8
Caddell-Burns Mfg Co 40 E 2 St Mineola NY	7-8	Freed Transformer Co 1718-36 Weirfield St Brooklyn 21 NY	1-3-4-5	Moloney Electric Co 5390 Rircher Blvd St Louis 20 Mo	3
Caledonia Electronics & Transformer Corp P O Box 298 Caledonia NY	1-3-5	Fuyle-Miller Labs Inc 301 Central Ave Clark NJ	3-4-6-7-8	Monaghan Co J J 500 Alcott St Denver 4 Colo	3-6
Cambridge Thermionic Corp 445 Concord Ave Cambridge 38 Mass	7-8	Gates Electronics Co 2090 Barnes Ave Bronx 62 NY	4-5	Morey Corp 2014 N Major Ave Chicago 39 Ill	4-7-8
Carol Electronics Corp 815 W Stephen St Martinsburgh W Va	1-3-7-8	Gates Radio Co 123 Hampshire St Quincy Ill	1-3-5	Morrow Radio Mfg Co 2794 Market St Salem Ore	3
Cerrol Coil Co 1720 N Luett St Indianapolis 22 Ind	3-6-7-8	General Coil Products Corp 147-12 Liberty Ave Jamaica 35 NY	3-7-8	Muirhead Instruments Inc 677 E Ave New York 22 NY	1-2
Central Transformer Co 900 W Jackson Blvd Chicago 7 Ill	1-8-4-5	General Instrument Corp 65 Gouverneur St Newark NJ	7-8	Munston Mfg & Service Inc Bech St Islip NY	1-3-4-5-7-8
Chicago Electronic Eng'g Co 3223 W Armitage Ave Chicago 47 Ill	1-3	Geotronic Labs Inc 1314 Cedar Hill Ave Dallas 8 Texas	1-3-4-5	Muter Co 1255 S Michigan Ave Chicago Ill	7
Chicago Magnetic Control 1616 N Damen Ave Chicago 47 Ill	1-3	Goslin Electric & Mfg Co 2921 W Olive Ave Burbank Calif	1-3-4-5-6-7-8	Mystic Transformers Inc 63 Swanton St Winchester Mass	1-3-4-5
Chicago Standard Transformer Corp 3501 W Addison St Chicago 18 Ill	1-3-4-5	Gramer-Halldorson Transformer Corp 2734 N Pulaski Rd Chicago 39 Ill	1-3-4-5	National Aircraft Corp Electronics Div 3411 Tulare Ave Burbank Calif	1-2-3
Cinema Eng'g Div Aerovox Corp 1100 Chestnut St Burbank Calif	1-3	Grand Ra-Tronics Inc 17360 Hayes Rd Grand Haven Mich	2-3-5	National Coil Co P O Box 1237 Sheridan Wyo	1-3-4-7-8
Clippard Instrument Lab 7390 Colerain Ave Cincinnati 39 Ohio	7-8	Grand Transformers Inc Beechtree & Marion Sts Grand Haven Mich	1-3	National Company Inc 61 Sherman St Malden 48 Mass	1-3-7-8
Coast Coil Co 5333 W Washington Blvd Los Angeles Calif	1	Gray & Kuhn 20 Railroad Ave Roslyn Heights NY	7-8	New York Coil Co 40 2 Ave Phoenixville Pa	5
Coil Company of America 212 Washington St Northvale NJ	1-3-4-5-6	Green Rectifier Co 147-10 St Fairlawn NJ	3-4-5	New York Transformer Co 3 Ave Alpha NJ	1-3-5
Coilcraft Inc Cary Ill	4-7-8	Guild Electronics Inc 388 Broadway New York 18 NY	8	NYT Electronics Inc 2975 N Ontario St Burbank Calif	1-3-4-5-7-8
Coils Electronics Co 2939-49 N 2nd St Phila 33 Pa	7-8	Hermetic Seal Transformer Co 555 N 5 St Garland Texas	1-3-4-5-6-7-8	Ohmite Mfg Co 3601 Howard St Skokie Ill	1-4-5-7-8
Coil Eng'g & Mfg Co Roanoke Ind	1-3-4-5	Highland Eng Co Magnolia St Westbury NY	1-3-4-5	Opad Electric Co 69 Murray St New York 7 NY	3-4-5
Coil Winders Inc 30 New York Ave New Cassel Westbury LI NY	1-3-4-5-6-7-8	Hindle Transformer Co Woods Church Rd Rd E Flemington NJ	3-4-5-8	Ortho Filter Corp 196 Albion Ave Paterson 2 NJ	3-4-5
Communication Accessories Co U S 50 Hwy Lees Summit Mo	1-3-4-5-7	Hi-Q Div Aerovox Corp Box 68 Myrtle Beach SC	7	Osborne Transformer Corp 948 E Lafayette Ave Detroit 7 Mich	3-4-5
Control Div Magnetics Inc Box 391 Butler Pa	5	Houlihan Co T J 2508 W Lawrence Ave Chicago 25 Ill	3-4-7-8	Oxford Elec Corp 3911 S Michigan Ave Chicago 16 Ill	3
Con rol Corp 715 Central Ave NE Minneapolis 14 Minn	3			Palo Alto Eng'g Co 620 Page Mill Rd Palo Alto Calif	1-2-3-4-5
Crittenden Transformer Works 1220 Nadeau St Los Angeles 1 Calif	3-4-5			Partridge Transformers Ltd Roebuck Rd Tolworth Surrey England	3-4-5-8
Cycle Transformer Corp 356 Glenwood Ave E Orange 11 NJ	3-5			Peerless Electrical Products 1515 S Manchester Ave Anaheim Calif	1-2-3-4

Penn-East Eng'g Corp
Box 240 Kutztown Penna 1-3-5-4

Permoflux Products Co
4101 San Fernando Rd
Glendale 4 Calif 1-3-4-5

Polyphase Instrument Co
E 4 St Bridgeport Pa 1-3-4-5

Q L C Corp
409 Main St Greenport NY 7-8

Radio TV Products Corp
308 N Lake St Grass Lake Mich 7

Rayco Electronic Mfg Inc
11116 Cumpston St
N Hollywood Calif 1-3-4-5-6-7-8

Raypar Inc
7800 W Addison St Chicago 34 Ill 1-3-7-8

Raytheon Mfg Co Commercial Equip Div
100 River St Waltham 54 Mass 1-3-5

Raytheon Mfg Co
100 River St Waltham 54 Mass 1-3-5

Kedman Electronics Corp
92 Prospect St Thompsonville Conn 7

Reed & Reese Inc
717 N Lake Ave Pasadena 6 Calif 1-3-6

Risco
265 Minna St San Francisco 3 Calif 3

R K Mfg Co
P O Box 112 Marion Ill 3

Kohn Electric Co
8338 S Princeton Ave Chicago 20 Ill 7

Roas Mfg Co
2533 Peterson Ave Chicago 45 Ill 7

RS Electronics Corp
P O Box 368 Sta A
Palo Alto Calif 1-3-4-5-7-8

Rue Products
1624 Venice Blvd Venice Calif 3-5-7-8

Sag Harbor Industries
Box N Sag Harbor NY 3-5-6

Sanford Miller Co
691 Bedford Ave Brooklyn NY 8-4-5

Sangamo Electric Co
1207 N 11th St Springfield Ill 1-3-5

Saratoga Industries
Congress & Halliston Aves
Saratoga Springs NY 1-3-4-5-7

Servomechanisms Inc
12500 Aviation Blvd Hawthorne Calif 1-3-5

Shalleross Mfg Co
Jackson & Pusey Aves Collingdale Pa 7

Sigmadyne of Conn
P O Box 869 Port Chester NY 3-4-5

Signal Transformer Co
1661 McDonald Ave Brooklyn NY 1-3-4-5

Skysweeper Inc
P O Box 92 McHenry Ill 1-3-4-5

SNC Mfg Co
P O Box 277 Oakbrook Wisc 3-4-5

Southern Western Industrial Electronics Co
2831 Post Oak Rd
Houston 19 Texas 1-3-4-5-6

Standard Electronics Div Radio Eng'g Labs
30 & Borden Sts
Long Island City NY 3-4-5-7-8

Standard Winding Co
44 Johns St Newburgh NY 1-3-4-5-6-7-8

Stanley Transformer Co
31-23 Vernon Blvd
Long Island City NY 1-3-4-5

Stanwyck Winding Co
137-151 Walsh Ave Newburgh NY 3-5-6-7-8

Sterling Transformer Corp
297 N 7 St Brooklyn 11 NY 1-3

Strong Electric Corp
87 City Park Ave Toledo 1 Ohio 4-5

Summit Coil Co
4 Claremont Rd Bernardsville NJ 7-9

Summit Electronic Products
14706 Arminta St Van Nuys Calif 1-3-4

Suprex Electronics Corp
58 Marbledale Rd Tuckahoe NY 1-3-7-9

Sylvania Electric Products
60 Boston St Salem Mass 1-3-4-5

Taffet Radio & TV Co
27-05 Brooklyn-Queens Expressway W
Woodside 77 NY 3-7-8

Tele-Coil Co
2733 Saunders St
Camden 8 NJ 1-3-4-5-6-7-8

Teleradio Engrs Corp
Shannon & Harrett Sts Wilkes-Barre Pa 7-8

Telex
1633 Eustis St St Paul 1 Minn 1-3-7-8

Tel-Rad Electronics Corp
127-20 Rockaway Blvd
S Ozone Park 20 LI NY 4-7-9

Thurdarson Meisner Mfg
Div Maguire Industries Inc
7th & Belmont Mt Carmel Ill 1-3-7-8

Todd Products Co
156 Gramatan Ave Mt Vernon NY 1-3

Torocoil Co
2615 Bristol Rd Columbus 21 Ohio 1-3

Torotel Inc
5612 E 110 St Kansas City 34 Mo 1-3-4

Torwico Electronics Inc
1090 Morris Ave Union NJ 1-4

Transformer Eng'g
285 N Halstead Pasadena Calif 1-3-4-5

Transformer Technicians Inc
2608 N Cicero Ave Chicago 39 Ill 1-3-4-5

Transformers Inc
200 Stage Rd Vestal NY 1-3

Transiator Electronics Co
3357 Republic Ave Minneapolis 26 Minn 7

Transonic Inc
808 16 St Bakersfield Calif 1-3-5

Tresco Inc
3824 Terrace St Philadelphia 28 Pa 1-3-5

Triad Transformer Corp
4055 Redwood Ave Venice Calif 1-3-4-5

Tronic Coil Winding Co Inc
58 Wesley St Waterbury Conn 3

Turbo Jet Products Inc
424 S San Gabriel Blvd
San Gabriel Calif 4

United Transformer Corp Pacific Div
4006 W Jefferson Blvd
Los Angeles 16 Calif 1-3-4-5-6

United Transformer Corp
150 Varick St New York 13 NY 1-3-4-5-6

Vanguard Electronics Co
3384 Motor Ave Los Angeles 34 Calif 7-8

Varo Mfg Co
2201 Walnut St Garland Texas 1-3-4-5-6-7-8

Vihraspower Co James
4050 N Rockwell St
Chicago 18 Ill 1-3-1-5-6

Vickers Inc Electric Products Div
1887 Locust St St Louis 3 Mo 3-4-5

Virginia Electronics Co
River Rd & B & O R R
Washington 16 DC 1-3-4-5-7-8

Vokar Corp
7300 Huron River Dr Dexter Mich 7

Volta Mfg Co
2154 N Halsted St Chicago 14 Ill 7

Watera Mfg Inc
Boston Post Rd Wayland Mass 1-7-8

Waveguide Inc
14837 Oxnard St Van Nuys Calif 3

Western Coil Products Co
959 Commercial St Palo Alto Calif 4-7-8

Westinghouse Electric Corp
P O Box 868 Pittsburgh 30 Pa 3-4-5-7-8

Wheeler Insulated Wire Co
150 E Aurora St
Waterbury 20 Conn 1-3-4-5-6

Whitewater Electronics Inc
135 Main St Whitewater Wisc 7-8

Wilco Corp
545 Drover St Indianapolis 21 Ind 7

Wilmar Mfg Co
1110 Truman Rd Kansas City Mo 3-7-8

Wirco Electronics Inc
9910 Rush St El Monte Calif 5-6-7-9

Wyeth Eng'g Inc
9911 Walden Pkwy Chicago 43 Ill 3

17—COILS

Bobbins, coil winding 1

Bobbins, transformer winding... 2

Coil assemblies 3

Coil forms 4

Coil winding machine 5

Coil winding machines, toroidal 6

Coils, antenna 7

Coils, audio crossover 8

Coils, color purity 9

Coils, crossover 10

Coils, deflection yoke 11

Coils, field 12

Coils, flyback 13

Coils, heating 14

Coils, high temperature 15

Coils, IF 16

Coils, ignition 17

Coils, inductor 18

Coils, magnet 19

Coils, metallized glass 20

Coils, pickup 21

Coils, PM focusing 22

Coils, printed circuit 23

Coils, relay 24

Coils, R-F receiving 25

Coils, R-F transmitting 26

Coils, saturable reactor 27

Coils, solenoid 28

Coils, speaker 29

Coils, toroidal 30

Coils, toroidal variable 31

Coils, transducer 32

Coils, transformer 33

Coils, TV centering 34

Coils, TV convergence 35

Coils, TV field 36

Coils, TV focusing 37

Coils, TV linearity 38

Coils, TV width 39

Coils, variable 40

Coils, video peaking 41

Accurate Paper Tube Co
805 N Peoria St Chicago 22 Ill 4

Ace Coil & Electronics Co
914 Lincoln Hwy
Metuchen NJ 3-7-8-10-16-18-19-23-
24-25-26-28-38-40-41

Acme Wire Co
1256 Dixwell Ave
New Haven 14 Conn 17-19-24-28-29-33

Acromag Inc
22519 Telegraph Rd Detroit 41 Mich 27-30

Advanced Electronics Inc
94 Silas Deane Hwy
Rocky Hill 9 Conn 1-2-3-14-15-19-24-28-33

Advance Industries Inc
640 Memorial Dr Cambridge 39 Mass 23

Aerocoil Inc
24 Cliff St
Jersey City 6 NJ 1-2-3-7-16-21-25-26-
28-29-30-33-38-39-41

Aerolite Electronics Corp
2207 Summit Ave
Union City NJ 3-7-8-10-14-16-19-21-24-
25-26-27-29-30-34-40-41

Aerovox Corp Pacific Coast Div
2724 S Peck Rd
Monrovia Calif 3-7-8-10-15-16-
18-25-26-27-30

Aerovox Corp
740 Belleville Ave New Bedford Mass 27-30

Airdesign Corp
241 Fairfield Ave
Upper Darby Pa 1-2-3-8-27-33

Airtronics Inc
5622 Darsey Lane Bethesda Md 3-30

Aladdin Electronics Div Aladdin Industries
703 Murfreesboro Rd
Nashville 10 Tenn 16-18-25-33

Alcar Instruments Inc
17 Industrial Ave Little Ferry NJ 5

Alden Products Co
12358 N Main St Brockton 64 Mass 1-4-30

Allen-Bradley Co
136 W Greenfield Ave
Milwaukee 4 Wis 19-28

Allied Allegri Co
141 River Rd Nutley 10 NJ 3-23

Allied Control Co
2 East End Ave New York 21 NY 19-24-28

Alto Scientific Co
855 Commercial St Palo Alto Calif 3-40

American Coil Inc
21-28 45 Rd Long Island City 1 NY 41

American Electric Fusion Corp
2600 Diversey Ave Chicago 47 Ill 33

American Instrument Co
8050 Georgia Ave Silver Springs Md 14

American Insulator Corp
New Freedom Pa 1-2-4

American Lava Corp Subs Minn Mining &
Mfg
Cherokee Blvd & Mfrs Rd
Chattanooga 5 Tenn 1-2-4

American Machine & Foundry Co
Defense Products Group
1101 N Royal St Alexandria Va 5

American Machine & Foundry Co Gen Eng
Labs
11 Bruce Pl Greenwich Conn 3

American Molded Products Co
2727 W Chicago Ave Chicago 22 Ill 1-2-4

American Printed Circuits Co
104 Forrest St Metuchen NJ 23

American Rectifier Corp
95 Lafayette St New York 13 NY 27-33

American Research & Mfg Corp
920 Halpine Ave Rockville Md 11-30

Ami Inc
1500 Union Ave Grand Rapids 2 Mich 2-8

Amp Inc Capltron Div
155 Park Ave Elizabethtown Pa 33

Anderson Controls Inc
2777 Mannheim Rd Des Plaines Ill 19-24-28

Apex Coil & Transformer Corp
1919 S Fairfield Ave
Chicago 8 Ill 1-2-3-8-10-19-24-28-33

A P W Co
72 W Main St
Rockaway NJ 3-8-17-19-21-24-28-30-33

Arco Transformer Electric Corp
1602 S Hanna St 1-2-3-8-9-10-12-15-17-18-19-
Ft Wayne 5 Ind 21-24-27-28-29-33-34-38-39

A R F Products Inc
P O Box 57 Ranton NM 3-7

Argonne Electronics Mfg Corp
165-11 South Rd Jamaica 33 NY 21

Artisan Electronics Corp
171 Ridgedale Ave Morristown NJ 3-24-28

Arted Co
367 Worthington St
Springfield 3 Mass 3-7-16-25-
28-30-38-39-40-41

Associated American/Div S & G Inc
750 St Anns Ave
New York 56 NY 1-2-5-6-11-12-13-28-29-30

Atlas Coil Corp
63 Main St
Ansonia Conn 1-2-11-15-18-19-25-26-27-33
Atlas Eng Co 1-2-3-4-5-6-7-8-9-10-11-12-
176 Blue Hill Ave 13-14-15-16-17-18-19-21-
Roxbury 19 Mass 23-24-25-26-27-28-29-30-
31-32-33-34-35-36-37-38-39-40-41

Audio Development Co
2833 13 Ave S Minneapolis Minn 30

Auto Test Inc
600 S Michigan Ave
Chicago 5 Ill 19-24-28-33

Avion Div ACF Industries Inc
11 Park Pl Paramus NJ 30

Avionics Ltd
P O Box 200 Niagara-on-the-Lake
Ontario Canada 23

Barker & Williamson Inc
Canal & Beaver Sta
Bristol Pa 3-7-8-10-16-18-25-26-28-30-31

Basler Electric Co
Box 269 Rt 143
Highland Ill 19-27-28-30-31-32-33-40

Bassett Inc Rex
1314 NE 17 Ct Ft Lauderdale Fla 3-7

Beckman Berkeley Div Beckman Instruments
Inc 2200 Wright Ave Richmond 3 Calif 27

Bellaire Electronics Inc
62 White St Red Bank NJ 26

Berkshire Transformer Corp
Route 341 Kent Conn 1-2-16-17-18-33

Better Coil & Transformer Corp
Goodland Ind 3

Ritterman Electric Co
Barlow St 8-7-8-10-12-14-
Canaan Conn 16-19-24-28-30-33

Blackburn Electronic Corp
55 W 7 St Wyoming Pa 11-25-30-37

Boesch Mfg Co
46 River St Danbury Conn 1-2-5-6

Boonton Molding Co
326 Myrtle Ave Boonton NJ 1-2

Bradford Components Inc
65 South Ave
Salamanca NY 1-3-16-23-25-26-38-40-41

Brihart Plastics Corp
Old Country Rd Mineola NY 4

Broadway Coil Co
1-2-3-7-8-9-10-15-16-18-
5638 Broadway 19-21-22-23-24-25-26-27-28-30-
Chicago 40 Ill 31-32-33-34-36-37-38-39-40-41

Buckeye Bobbin Co
12200 Sprecher Ave Cleveland 11 Ohio 1-2-4

Bundy Electronics Corp
171 Fabyan Pl Newark 12 NJ 3-27-30

Bunnell & Co J H
81 Prospect St Brooklyn 1 NY 26

Hurnell & Co
10 Pelham Pkwy
Pelham Manor NY 3-8-10-16-18-27-30-31-34

Cable Electric Products
234 Daboll St Providence 7 RI 2-28-33

Caddell-Burns Mfg Co
40 E St 3-4-7-9-16-18-19-
Mineola NY 23-25-26-38-39-40-41

Calbest Electronics Co
4801 Exposition Blvd
Los Angeles 16 Calif 3-7-25-26-28-38-39-41

Calif Magnetic Control Corp
11922 Valerio St
N Hollywood Calif 1-2-18-27-28-30-32-33

Cal-Ohm Labs Inc
Broadway & Adams St
Sterling Kan 3-15-16-19-23-24-28-40

Caltron Products Co
3518 W Pico Blvd Los Angeles 19 Calif 28

Cannon Electric Co
3208 Humboldt St Los Angeles 81 Calif 28

Cambridge Thermionic Corp
445 Concord Ave
Cambridge 38 Mass 4-7-16-25-26-40

Carborundum Co Globar Div
Hyde Park Blvd Niagara Falls NY 4

Carni Co
P O Drawer 554 Brookhaven Miss 30

Casell Electronics Corp
315 W Stephen St
Martinsburg W Va 16-25-26-33

Cedar Eng'g Inc
5805 W 36 St
Minneapolis 16 Minn 3-5-27-28-30

CELCO Constantine Eng'g Labs Co
P O Box 555
Mahwah NJ 11-12-13-15-18-27-30-31-40-41

Central Coil Co
1720 N Luett St 1-2-3-7-16-18-19-23-
Indianapolis 22 Ind 24-25-26-27-28-33-40-41

Central Transformer Co
900 W Jackson Blvd Chicago 7 Ill 27-33

Century Coil Corp
1534 N Clybourn Ave Chicago 10 Ill 8-33

CG Electronics Corp
1590 Central St Albuquerque NM 6-27-30

CGS Laboratories Inc
Routes 7 & 35 Ridgefield Conn 27-30

Chicago Electronic Eng'g Co
3223 W Armitage Ave Chicago 47 Ill 27-30

Chicago Magnetic Control
1616 N Damen Ave Chicago 47 Ill 27-30

Chicago Standard Transformer Corp
3501 W Addison St 2-11-13-18-22-
Chicago 18 Ill 27-30-33-37-38-39

Chicago Telephone of Calif
105 Pussadena Ave
S Pasadena Calif 1-2-3-17-33

Cinema Eng'g Div Aerovox Corp
1100 Chestnut St Burbank Calif 18-30-40

Cinema-Television Ltd
Worsley Bridge Rd
Lower Sydenham London SE 26 England 37

Clark Controller Co
1145 E 152 St Cleveland 10 Ohio 19

Cleveland Container Co
6201 Barberton Ave Cleveland 2 Ohio 4

Cleveland Electronics Inc
1974 E 61st St Cleveland 3 Ohio 11

Cleveland Metal Specialties Co
1785 E 21 St Cleveland 14 Ohio 23

Clippard Instrument Lab
7390 Colerain Ave 1-3-7-16-25-28-
Cincinnati 39 Ohio 33-34-38-39-40-41

Coast Coil Co
5333 W Washington Blvd
Los Angeles Calif 27-30

Coil Company of America
212 Washington St 1-2-11-12-15-18-19-
Northvale NJ 27-28-29-30-31-32-33

Coilcraft Inc 1-3-7-8-10-16-18-19-21-23-
Cary Ill 24-25-26-28-30-33-38-39-40-41

Coils Electronics Co
2939-49 N 2nd St 1-3-7-16-19-21-
Phila 33 Pa 24-26-28-32-40-41

Coil Eng'g & Mfg Co
Roanoke Ind 1-2-17-19-24-28-29-33-36

Coil Winders Inc
30 New York Ave 1-2-3-4-6-7-8-10-11-12-
New Cassel 14-15-16-18-19-21-22-23-24-25-26-
Westbury LI NY 27-28-30-31-32-33-37-40-41

Coil Winding Equipment Co
19 Maxwell Ave Oyster Bay NY 5-6

Colber Corp
26 Buffington St Irvington 11 NJ 4

Colman Tool & Machine Co
1017 NE 3 Ave Amarillo Texas 7

Comar Electric Co
3349 Addison St Chicago 18 Ill 19-24-28

Communication Accessories Co 1-2-3-8-10-12-
U S 50 Hwy 13-15-16-18-19-22-23-25-26-27-
Lees Summit Mo 30-31-32-33-34-35-36-37-
38-39-40

Com Tronics Inc
3409 Venice Blvd 16-18-40-41
Los Angeles 19 Calif

Conn Telephone & Electric Corp 3-18-19
70 Britania St Meriden Conn

Consolidated Molded Products Corp
309 Cherry St Scranton 2 Penna 4

Consolidated Productions Inc
Broward Int'l Airport
Ft Lauderdale Fla 3-11-13

Continental X-Ray Corp
1536 N Clybourn Ave Chicago 10 Ill 3-33

Control Div Magnetics Inc
Rox 391 Butler Pa 27

Control Corp
718 Central Ave NE
Minneapolis 14 Minn 3-24

Cooper Co D C
1467 S Michigan Ave Chicago 5 Ill 14

Corning Glass Works
Corning NY 4-18-20

Corona Eng'g Service
94-52 Corona Ave Elmhurst 73 NY 30

Cosco Corp
405 Lexington Ave New York 17 NY 5-6

Cosser Canada Ltd
301 Windsor St
Halifax Nova Scotia Canada 3-11-16-19-22-30

Coto-Coil Co
65 Pavilion Ave 1-2-3-12-15-18-
Providence 5 RI 19-22-24-28-30-32-33

Courier Products Div Model Eng'g & Mfg Inc
N Lake St Boyne City Mich 3-21-28

Crescent Engg & Research Co
5440 N Peck Rd El Monte Calif 21-32

Crown Industrial Products Co
713 Amsterdam Woodstock Ill 5

Crucible Steel Co of America
P O Box 2518 Pittsburgh 30 Penna 19

Cycle Transformer Corp
356 Glenwood Ave
E Orange 11 NJ 1-2-3-15-18-19-27-28-29-33

Hallons Labs
5066 Santa Monica Blvd
Los Angeles 29 Calif 14

Dano Electric Co
Winsted Conn 24

Davis Electric Co
230 Spring Ave Cape Girardeau Mo 11

Decoursey Eng'g Lab
11828 W Jefferson Blvd
Culver City Calif 27-30

Deutschmann Corp Tobe
Providence Hwy Norwood Mass 30

Dewitt Development Co
3008 W 127 St
Blue Island Ill 18-21-28-29-41

Diamond Coils Inc
540 39 St
Union City NJ 3-7-16-18-19-23-38-39-40-41

Diamonite Products Mfg Co
1232 Cleveland Ave N W Canton Ohio 4

Dietz Design & Mfg Co
Grandview 13 Mo 3-7-10-16-25-26-30-31-33-41

Dittmore-Freimuth Corp
2517 E Norwich St Milwaukee 7 Wisc 3-30

Division Lead Co
7742 W 61 Pl Summit Ill 14

Dmster Mfg Co
22-24 Larkin Plaza Yonkers NY 28

Dormeyer Industries
3418 Milwaukee Ave
Chicago 41 Ill 1-2-3-15-19-24-28-33

D & R Ltd
402 E Gutierrez St Santa Barbara Calif 80

Du-Co Ceramics Co
Box 278 Saxonburg Pa 1-4

Du Mont Labs Inc Allen B
750 Bloomfield Ave Clifton NJ 11

Duramic Products Inc
262 72 Molt St New York 12 NY 4

DX Radio Products Co 1-2-3-6-8-10-11-12-13-16-
2300 W Armitage Ave 18-19-22-24-25-26-27-
Chicago 47 Ill 28-29-30-33-34-36-37-38-39-
40-41

Dynamic Electronics Inc 7-8-10-11-12-13-14-15-
73-23 Woodhaven Blvd 16-17-18-19-20-21-22-
Forest Hills NY 23-24-25-26-27-28-29-30-31-
32-33-34-35-36-37-38-39-40-41

Dynamics Research Associates
Div Universal Match Corp P O Box
5841 Ferguson 21 Mo 17-30-31

Eastern Specialty Co
3617 N 8 St Phila 40 Pa 1

Eastman Pacific Co
2320 E 8 St
Los Angeles 21 Calif 3-4-18-40

Eisler Eng'g Co
750 S 13 St Newark 3 NJ 1-5

Electran Mfg Co
1901 Clybourn Ave
Chicago 14 Ill 1-2-19-27-30-33

Electrend Products Corp
Box 110 St Joseph Mich 3-7

Electrical Specialty Co
168 11 St San Francisco 3 Calif 1-2-4-5-6

Electrical Windings Inc
2015 N Kolmar Ave
Chicago 39 Ill 1-5-19-24-27-28-33

Electric Auto-Lite Co
Wire & Cable Div Port Huron Mich 17

Electric Auto-Lite Co
Champlain St Toledo Ohio 3

Electro Assemblies Inc
4444 N Kedzie Ave
Chicago 25 Ill 3-4-16-18-25-26-40-41

Electro Devices Inc
560 Main St Wilmington Mass 1-6-6

Electro Eng'g Works
401 Preda St
San Leandro Calif 1-3-12-15-18-19-22-27-33

Electronic Coil Co
2506 N Ontario St
Burbank Calif 3-7-15-16-17-25-28-40-41

Electronic Coil Engineers Inc
5830 Main St Hollywood Calif 15-18-21-24-28

Electronic Coils Inc
P O Box 1665
Springfield Mass 3-18-19-21-24-27-28-30-33-41

Electronic Components
2655 W 19 St Chicago 8 Ill 2-28-33

Electronic Designs Inc
28 School St Yonkers NY 27

Electronic Research Associates
67 Factory Pl Cedar Grove NJ 3-30

Electronics Inc
7303 Atoll Ave 3-16-18-25-26-
N Hollywood Calif 30-35-39-40-41

Electronic Transformer Co
70 Washington St Brooklyn 1 NY 30-33

El-Rad Mfg Co
2800 W Cullum Ave 3-7-8-10-13-16-23-24-
Chicago 18 Ill 25-26-28-38-39-40-41

Emerwon Plastics Corp
Seabury Ave & Butler Pl
Bronx 61 NY 1-3-4

Enfo Corp
Fellowship Rd Route 73
Maple Shade NJ 1-2

Ensign Coil Co
2520 S Pulaski
Chicago 23 Ill 12-16-18-19-24-25-30-38

Epo Products Inc
2501 Atlantic Ave
Brooklyn 7 NY 8-18-19-27-33

EPM Corp
675 Barby St Brooklyn NY 1-3-4

Epsco Inc
588 Commonwealth Ave Boston 15 Mass 30

Essex Electronics
550 Springfield Ave 3-7-16-18-21-25-26-28-
Berkeley Heights NJ 33-38-39-40-41

Essex Electronics
49 Wragge St 7-16-18-23-25-26-
Trenton Ont Canada 28-38-39-40-41

Essex Wire Corp Magnetic Winding Inc
Easton Pa 1-2-3-4-12-15-18-19-24-27-28-33

Ferranti Electric Inc
80 Rockefeller Plaza
New York 20 NY 3-18-27-38

Ferrotron Electronics Co
693 Broadway New York 12 NY 1-2-15-18-25

Ferrocube Corp of America
15 E Bridge St Sauzetier NY 1

Filtrol Co
10023 W Jefferson Blvd
Culver City Calif 3-18-30

First Electronics Corp
117 Blue Hill Ave Boston 19 Mass 8

Fisher Eng'g Inc
P O Box 327 Huntington Ind 15

Five Star Co
W Main St
Plantaville Conn 1-8-15-17-19-19-24-28-33

Forbes & Wagner Inc 1-2-3-4-7-8-9-11-13-15-16-
343 Central Ave 18-19-21-24-25-26-27-28-30-
Silver Creek NY 33-34-35-36-37-38-39-40-41

Forest Electric Co
7216 Circle Ave
Forest Park Ill 1-2-17-19-38

Form-It Products Inc
16-19 W Walnut St Chicago 12 Ill 1-4

Foster Transformer Co
3820 Colerain Ave
Cincinnati 23 Ohio 3-18-27-33

Freed Transformer Co
1718-36 Weirfield St
Brooklyn 27 NY 18-30

Fugie-Miller Labs Inc
301 Central Ave 3-7-13-15-16-19-23-24-25-
Clark NJ 26-27-28-30-37-38-39-40-41

Garde Mfg Co
588 Eddy St Providence 3 RI 1-2-4

Gates Radio Co 123 Hampshire St Quincy Ill	3-7-26	Kirchberger & Co M 83-91 W Forest Ave Englewood NJ	1-4-14	Myatic Transformers Inc 63 Swanton St Winchester Mass	1-2-3-18-19-27-28-33
Gavitt Wire & Cable Co Central St Brookfield Mass	1	Knopp Inc 1307 66th St Oakland 8 Calif	28-38	National Aircraft Corp 3411 Tulare Ave Burbank Calif	3-11-15-16-26-27-28-29-31-33
General Ceramics Corp Crowa Mill Rd Keanbey NJ	4	K-V Transformer Corp 20 E Franklin St Danbury Conn	3-15-18-27-33	National Coil Co P O Box 1237 Sheridan Wyo	1-2-3-4-7-8-10-16-18-23-25-26-27-28-33-40
General Coil Products Corp 147-12 Liberty Ave Jamaica 35 NY	3-7-10-16-25-26-28-30-38-39-40-41	Laboratory for Electronics Inc 75 Pitta St Boston 14 Mass	16-27-30	National Company Inc 61 Sherman St Malden 48 Mass	4-16
General Electric Co Apparatus Sls Div 1 River Rd Schenectady 5 NY	24-27	Lacasa Eng'g Corp 5614 W Grand Ave Chicago 39 Ill	5	National Electric Coil Co 800 King Ave Columbus 16 Ohio	19
General Electric Co Jet Engine Dept Hldg 501 Cincinnati 15 Ohio	15	Lamtex Industries Inc 51 State St Westbury NY	1-4	National Moldite Co 259 South St Newark NJ	4
General Instrument Corp 65 Gouverneur St Newark NJ	3-7-9-10-11-13-16-23-25-26-27-28-30-35-38-39-40-41	Langevin Mfg Corp 47-37 Austell Pl Long Island City 1 NY	15-27-30-33-41	Networks Electronic Corp 14806 Oxnard St Van Nuys Calif	27-30-31
General Instrument Corp F W Sickles Div 165 Front St Chicopee Mass	3-7-11-13-16-25-27-30-38-39-40-41	Lee Chemical Corp Walter 1383 Seabury Ave & Butler Pl Bronx 61 NY	1-4-7-8-9-10-11-13-15-16-17-25-26-28-35-37-38-39-40-41	Newcomb Spring Corp 177 E Hawthorne Ave Valley Stream NY	34-35-36-37-38-39
General Radio Co 275 Massachusetts Ave Cambridge 38 Mass	30-40	Leonard Electric Products Co 67 34 St Brooklyn 32 NY	1-3-4-7-8-9-10-11-13-15-16-17-25-26-28-35-37-38-39-40-41	New York Coil Co 40 2 Ave Phoenixville Pa	3-15-17-18-19-24-27-28-33
Geotronic Labs Inc 1314 Cedar Hill Ave Dallas 8 Texas	1-2-8-18-27-30-32-33	Life Instrument Co P O Box 158 Braintree 85 Mass	1-3-18-19-21-24-28-32	New York Transformer Co 3 Ave Alpha NJ	15-28-30-33
Glaeser-Steers Corp 20 Main St Belleville 9 NJ	3-9-19-22-34-36-37	Linell Eng'g Corp Chas S 447 E Blvd Oak Park Ill	1-3-7-16-18-25-26-28-38-39-40-41	Nichols Products Co 325 W Main St Moorestown NJ	1-4
Good-All Electric Mfg Co 112 W First St Onalala Nebr	8	Lincoln Inc 4101 San Fernando Rd Glendale 4 Calif	8-10-12-15-27-28-29-33	Norrich Plastics Corp 107 W 18th St New York NY	1-2-3-4
Goslin Electric & Mfg Co 2921 W Olive Ave Hurbank Calif	3-16-17-18-24-25-26-27-28-30-33	Litton Industries of Calif 336 N Foothill Rd Reverly Hills Calif	11-13-30-33-38-39	North Electric Co 553 S Market St Galion Ohio	24
Gramer-Halliderson Transformer Corp 2734 N Pulaski Rd Chicago 39 Ill	1-2-3-11-13-27-30-33	Litton Industries of Md Inc 4910 Calvert Rd College Park Md	30	Ny-Glass Inc 2501 E 68 St Long Beach Calif	1-2-4
Grand Radio Products Inc 17360 Hayes Rd Grand Haven Mich	28-29-32-33	Long Inc Thomas J 215 Stonehenge Lane Carle Place LI NY	4	Nyt Electronics Inc 2979 N Ontario St Burbank Calif	3-7-8-10-12-15-16-17-18-21-28-33-40-41
Grand Transformers Inc Beechtree & Marion St Grand Haven Mich	1-3-8-19-28-33	Magnavox Co 2131 Bueter Rd Ft Wayne Ind	3-7-16-25-26-30-33	Orange Products Inc 554 Mitchell St Orange NJ	1
Grayhill 561 Hillgrove Ave La Grange Ill	4	Magnetec Corp 11785 W Olympic Blvd W Los Angeles 64 Calif	8	Ortho Filter Corp 196 Albion Ave Paterson 2 NJ	1-2-3-15-27-30-33
Gray & Kuhn 20 Railroad Ave Ruslyn Heights NY	3-7-15-16-18-29-25-26	Magnetic Amplifiers Inc 3722 Park Pl Montrose Calif	2-30-33	Osborne Transformer Corp 948 E Lafayette Ave Detroit 7 Mich	27-30
Green Rectifier Co 1-10 30 St Fairlawn NJ	33	Magnetic Specialties Co 18 Scudder Ave Northport LI NY	30-32	Oxford Elec Corp 3911 S Michigan Ave Chicago 15 Ill	29-33
Gries Reproducer Corp 5 2nd St New Rochelle NY	1-4	Magnetic Research Co 255 Grove St White Plains NY	30	Pacific Electricord Co 3217 Exposition Pl Los Angeles 18 Calif	8
Gulion Industries Inc 212 Durham Ave Mtuchon NJ	30	Marine View Electronics Inc 28 Main St White Plains NY	1-2-3-7-8-10-12-14-15-16-17-18-19-21-24-25-26-28-40	Palmer Inc M V 4002 Fruit Valley Rd Vancouver Wash	30
Hallamure Electronics Co 8352 Brookhurst Ave Anaheim Calif	30	Maryland Lava Co Box 205 Bel Air Md	4	Palo Alto Eng'g Co 620 Page Mill Rd Palo Alto Calif	8-10-18-19-28-33
Hallett Mfg Co 5810 Brockcraft St Los Angeles Calif	17	Merit Coil & Transformer Corp 2027 Sherman St Hollywood Fla	7-11-13-16-18-23-25-26-33-37-38-39-40-41	Paramount Paper Tube Corp 618 Lafayette St Fort Wayne 2 Ind	4
Harder Co Donald C 3710 Midway Dr San Diego 10 Calif	5-6-30-33	Mayfair Molded Products Corp 3700 N Rose St Schiller Park Ill	1-2-4	PCA Electronics Inc 16799 Schoenborn St Sepulveda Calif	16-18-30-31-32
Heatron Co 533 Eberts St York Pa	3-4-14	Melen Products Inc 291 5 Ave S Minneapolis 15 Minn	1-3-8-10-19-21-24-25-28-29-30-33-34-35-36-37-38-39-40-41	Peerless Products Industries 812 N Pulaski Rd Chicago 51 Ill	4
Hermite Seal Transformer Co 355 N 5 St Garland Texas	3-5-3	Menlo Park Eng'g 721 Hamilton Ave Menlo Park Calif	28	Penn-East Eng'g Corp Box 240 Kutztown Penna	33
Hetherington Inc Welmar Dr Fulcroft Pa	8-13-24-25-33	Mico Instrument Co 40 Trowbridge St Cambridge 38 Mass	6-30	Penn Transformer Corp E Bishop St Ext Hellefonte Pa	1-9-11-13-24-28-38-39
Highland Eng Co 90 Macnolia St Westbury NY	3-33	Microtran Co 145 E Mineola Ave Valley Stream NY	1-2-18-21-25-40-41	Performax Products Co 4101 San Fernando Rd Glendale 3 Calif	8-10-12-15-27-28-29-23
Hillburn Electronic Products Co 58 Nassau Ave Brooklyn 22 NY	1	Millen Mfg Co James 150 Exchange St Malden 48 Mass	3-4-7-16-18-25-26-28-40-41	Permonite Mfg Co 444 Lake Shore Dr Chicago 11 Ill	4
Hindle Transformer Co Woods Church Rd RD 2 Flemington NJ	3-14-15-19-26-27-33	Miller Co J W 5917 S Main St Los Angeles 3 Calif	3-7-16-18-23-25-26-28-33-37-38-39-40-41	Philmore Mfg Co 113 University Pl New York 3 NY	7-16
Huillhan Co T J 2508 W Lawrence Ave Chicago 25 Ill	3-7-12-16-18-19-21-23-25-26-28-29-37-38-39-40-41	Minitran Corp 5 Oliver St Newark 2 NJ	1-2-3-15-18-27-33	Pittsburgh Coil Co 37 McMichael Rd Carnegie Penna	1-12-18-19-24-26-33
Hydro Molding Co 100 Sharrow Ave Plattsburgh NY	1-2-4	Minn-Honeywell Regulator Co Aeronautical Div 2600 Ridgway Ave Minneapolis 13 Minn	3-4-14-15-18-19-21-23-24-27-28-30-32-33-34-35-36-37-38-39-40-41	Polyphase Instrument Co E 4 St Bridgeport Pa	18-23-27-30-33
Illumitronic Eng'g Co 680 E Taylor Ave Sunnyvale Calif	3-7-26	Misouri Research Labs Inc 2109 Locust St St Louis 3 Mo	30	Potter Aeronautical Corp Route 25 Union NJ	15-21
Inductor Eng'g Inc 117 Schley Ave Lewes Del	27-30-33	Mitronics Inc 1290 Central Ave Hillside NJ	1	Power Transformer Co 91 Edison Pl Newark 5 NJ	15-18-19-27-33
Industrial Transformer Corp Gouldsboro Pa	1-2-3-18-27-28-30-33	Model Electric Products Corp Asbury Park NJ	17-19-28	Precision Inc 730 N Lyndale Ave Minneapolis 11 Minn	3-14-15-23-27-28-30
Industrial Winding Machinery Co 120 Wall St New York 6 NY	5	Modern Adhesives & Electronics Inc 148 Greene St New York 12 NY	15-33	Precision Paper Tube Co 2035 W Charleston St Chicago 47 Ill	1-2-4
Insulation & Wire Inc 1531 Swiney Ave Ft Wayne Ind	5	Modern Industries Inc 2601 Colorado Ave Santa Monica Calif	3-18-24-27-28-30-33	Premax Products Div Chisholm-Ryder Co College & Highland Aves Niagara Falls NY	3-7
International Resistance Co 401 N Broad St Philadelphia 8 Pa	30	Molding Corp of America 58 Weybosset St Providence 3 RI	1-4	Press Wireless Labs Inc 25 Prospect Pl W Newton 65 Mass	3-26
Islip Transformer & Metal Co Reach St Islip NY	7-16-25-26-33	Munatam Co J J 500 Aleott St Denver 4 Colo	3-19-24-28-33	Printloid Corp 93 Mercer St New York 12 NY	4
Inolantite Mfg Corp Warren Ave Stirling NJ	1-4	Moore Associates Inc 2628 Spring St Redwood City Calif	16-18-25-26-27	Q L C Corp 409 Main St Greenport NY	3-7-16-25-38-39-40-41
Jackson Electronic Inc 28 Woodcrest Rd West Chester Pa	3-7-23-25-26-29-40	Morrey Corp 2014 N Major Ave Chicago 35 Ill	23-25-26-28-29-30-32-33-34-35-36-37-38-39-40-41	Quality Components Inc St Marys Pa	4
James Vibration Co Acam Div 109 W 8 St Gibson City Ill	1-2-3-9-29-33	Morrow Radio Mfg Co 2794 Market St Salem Oregon	25-26	Radio Corp of America Commercial Electronic Products Front & Cooper Sts Camden NJ	11-22
Jeffers Electronics Div Speer Carbon Co Hoover Ave Dubois Pa	25-28	Moseley Co F L 409 N Fair Oaks Ave Pasadena Calif	3-7	Radio Industries Inc 5225 N Ravenswood Ave Chicago 25 Ill	16-23-39-41
Johnson Aircraft Eng'g Co Geophysical Services Div P O Box 100 Morrisstown NJ	3-28	Munaton Mfg & Service Inc Teech St Illip NY	7-16-18-25-26-33	Radio TV Products Corp 308 N Lake St Grass Lake Mich	3-16-23-25-38-39
Johnson Co E F 206 2 Ave SW Waseca Minn	3-4-7-26-40	Muter Co 1255 S Michigan Ave Chicago 11 Ill	7-16-25-26-33-37-38-39-40-41	Railway Communications Inc 9351 E 59 St Raytown 33 Mo	30
Johnson Electronics Inc P O Box 1675 Hwy 17-92 Casselberry Fla	28-30-31-33-38-39-40-41			Ramo-Woodridge Corp Electronic Instrumentation Div P O Box 8405 Denver 10 Colo	30-32-33
King Electric Equipment Co 9123 Inman Ave Cleveland 5 Ohio	19-24-28-33			Randall Inc Douglas 6 Pawcatuck Ave Westerly RI	3-15-17-18-19-21-24-27-28-30-31-32-33

Rayco Electronic Mfg Inc
11116 Cumpston St
N Hollywood Calif 1-2-3-5-6-8-10-15-17-
18-19-23-27-28-30-31-33

Raypar Inc
780C W Addison St 3-13-16-17-18-19-24-25-
Chicago 34 Ill 26-28-33-38-39-40-41

Raytheon Mfg Co Commercial Equip Div
100 River St
Waltham 54 Mass 16-27-30-33

Raytheon Mfg Co
100 River St Waltham 54 Mass 27-30

Redman Electronics Corp
92 Prospect St
Thompsonville Conn 3-7-16-25-30-39

Reed & Reese Inc
717 N Lake Ave 1-2-3-4-7-8-10-13-
Pasadena 6 Calif 15-16-19-20-21-28-24-
25-26-27-28-30-32-33

Resitron Labs Inc
2908 Nebraska Ave 1-3-4-11-12-15-
Santa Monica Calif 19-24-28-36-37

Rex Rheostat Co
3 Foxhurst Rd Baldwin LI NY 6

Risco
265 Minna St San Francisco 8 Calif 30

Rixon Electronics Inc
2414 Reedle Dr Silver Spring Md 5-6

Rogers Electronic Corp
49 Bleecker St
New York 12 NY 11-13-38-39

Rola Co Inc
2630 Superior Ave Cleveland 14 Ohio 11

Rollan Electric Co
733 S Princeton Ave
Chicago 20 Ill 1-3-16-23-25

Romar Plastics Inc
1311 E Main St St Charles Ill 4

Ross Mfg Co
3898 Peterson Ave
Chicago 45 Ill 9-11-13-16-25-35-38-39

Rowe Industries
1702 Wayne St Toledo 9 Ohio 3-4-21

RS Electronics Corp
P O Box 889 Sta A
Palo Alto Calif 16-18-19-25-26-27-28-30-33

Rue Products
1628 Venice Blvd Venice Calif 25-26-30

Sag Harbor Industries
Box N
Sag Harbor NY 3-12-14-15-17-18-19-24-28-33

Sangamo Electric Co
1207 N 11th St
Springfield Ill 18-27-30-33

Saratoga Industries
Congress & Ballston Aves 1-2-3-18-19-27-
Saratoga Springs NY 28-30-31-33-40

Saxon Products Inc
1661 Boone Ave New York 60 NY 4

Schaevitz Eng'g
U B Rte 130 & Schaevitz Blvd
Camden NJ 1-2

Scientific Coil Co
5619 Broadway
Chicago 48 Ill 3-13-16-25-38-39-41

Scientific Eng'g Lab
2436 Sacramento St Berkeley Calif 19

Seeley Electronics
1060 E Labrea Ave
Los Angeles 19 Calif 3-7-16-25

Servomechanisms Inc
12600 Aviation Blvd
Hawthorne Calif 1-2-15-21-27-30-33

Sickles Div F W/GIC
165 Front St
Chicago 25 Mass 3-23-25-26-37-38-40-41

Shelton Mfg Co
Jackson & Pusey Aves
Collingdale Pa 1-3-21-25

Sheltered Workshop
2621 6th St Santa Monica Calif 3

Sigmadyne of Conn
P O Box 869
Port Chester NY 8-18-27-28-30-33

Signal Transformer Co
1661 McDonald Ave
Brooklyn NY 1-2-3-15-19-27-28-33

Silicone Insulation Inc
Seabury Ave & Butler Pl
Bronx 61 NY 1-2-4

Simmonds Aerocessaries Inc
Vergennes Vt 1-2-3-4-33

Sinclair Mfg Co
E Worcester St Chartley Mass 4

Skysweeper Inc
P O Box 92
McHenry Ill 1-2-3-15-19-24-27-28-33

SNC Mfg Co
P O Box 277 Oshkosh Wisc 12-19-27-28-33

Southwestern Industrial Electronics Co
2831 Post Oak Rd 1-2-3-4-19-21-23-
Houston 19 Texas 27-28-30-32-33

Spaulding Fibre Co
310 Wheeler Es Tonawanda NY 4

Specialties Inc
Skunks Misery Rd Snyset LI NY 8

Specific Electronics
1995 N Fair Oaks Ave
Pasadena Calif 1-2-3-28

Speer Resistor Div Speer Carbon Co
Bradford Pa 4

Spellman TV Co
3029 Webster Ave New York 67 NY 26-33

Sphere Co
25 Amity St Little Falls NJ 4

Standard Coil Products Co
2085 N Hawthorne Ave 7-11-13-16-28-34-35-
Melrose Park Ill 36-37-38-39-40-41

Standard Electromagnetics Inc
43-45 Carroll St Frederick Md 1-3-19

Standard Winding Co
44 Johnes St 1-2-3-4-13-16-25-26-
Newburgh NY 28-30-38-39-40-41

Stanley Transformer Co
31-23 Vernon Blvd
Long Island City NY 1-2-33

Stanwyck Winding Co
137-151 Walsh Ave 3-7-8-10-16-23-24-25-26
Newburgh NY 28-32-33-38-39-40-41

Star-A Electric Mfg Co
269 Meserole St Brooklyn 6 NY 14

Stevens Mfg Co Geo
6022 N Rogers Ave Chicago 30 Ill 5-6

Steward Mfg Co D M
Chattanooga Tenn 1-4

Stone Paper Tube Co Div Stone Straw Corp
900 Franklin St N E Washington 17 DC 4

Stonite Coil Corp
Rt 130 Yardville NJ 3-15-18-28

Stupakoff Div Carborundum Co
Latrobe Pa 4

Sturup Inc
50 Silver St Middletown Conn 1-19-21-28-32

Summit Coil Co
4 Claremont Rd
Bernardsville NJ 3-7-16-25-38-39-40-41

Summit Electronic Products
14706 Arminta St
Van Nuys Calif 3-27-30-32-33

Superex Electronics Corp
58 Marbledale Rd
Tuckahoe NY 4-7-18-23-25-26-40-41

Superior Steatite & Ceramic Corp
83-91 W Forest St Englewood NJ 1-4-14

Swan Electronics Co
6016 N Austin Ave 18-19-21-23-24-25-26-28-
Chicago 30 Ill 30-31-32-38-39-40-41

Swenson Co V H
556 Elm St Arlington NJ 4

Sylvania Electric Products
60 Boston St Salem Mass 2

Sylvania Electric Products Co Electric
System Div
100 First Ave 3-7-12-13-16-25-26-34-
Waltham 54 Mass 35-36-37-38-39-41

Syncor Products Co
30 Eastern Ave Box 61
Malden 48 Mass 4-15-20

Synthane Corp
Montgomery Ave Oaks Pa 4

Syntronic Instruments Inc
100 Industrial Rd Addison Ill 11-37

Taffet Radio & TV Co
27-05 Brooklyn-Queens Expressway W
Woodside 77 NY 25-26

Tele-Coil Co
2733 Saunders St 3-4-7-11-13-14-15-16-25-26-
Camden 5 NJ 28-34-35-36-37-38-39-40-41

Telectron Co Div Elliott & Evans
Bldg No 9 Broward Intl Airport
Ft Lauderdale Fla 11-37

Telex
1633 Eustis St
St Paul 1 Minn 1-2-3-4-23-30-31-32-33

Teleradio Eng'g Corp
7-9-11-12-13-15-16-18-
Shannon & Barrett Sts 19-22-23-24-25-26-28-
Wilkes-Barre Pa 29-34-35-36-37-38-39-40-41

Tel-Rad Electronics Corp
1-2-3-4-8-9-10-12-
12-20 Rockway Blvd 15-16-19-20-21-28-24-
B Ozone Park 20 LI NY 25-26-28-29-30-
34-35-36-38-39-40-41

Thermador Electronics Div
Norris-Thermador Corp
2000 S Camfield Ave
Los Angeles 22 Calif 15-18-27-30-38

Thor Ceramics Inc
225 Belleville Ave
Bloomfield NJ 1-2-4-15-20-23

Thordarson Meissner Mfg
Div Maguire Industries Inc
7th & Belmont 7-9-10-11-18-16-23-25-26-
Mt Carmel Ill 27-33-37-38-39-40-41

Todd Products Co
156 Gramatan Ave
Mt Vernon NY 1-2-8-18-27-33

Topper Mfg Co Inc
147-12 Liberty Ave
Jamica 35 NY 1-2-15-30-31

Toroil Co
2615 Bristol Rd Columbus 21 Ohio 3-10-14-30

Torotel Inc
5512 E 110 St
Kansas City 34 Mo 3-6-15-18-19-27-30-33

Torwico Electronics Inc
1090 Morris Ave
Union NJ 1-2-3-15-18-23-27-30-33

Trane Co
Cameron & E St La Crosse Wisc 14-15

Tranco Products Inc
12210 Nebraska Ave Los Angeles 25 Calif 24

Transformer Engg
295 N Halsted
Pasadena Calif 1-2-3-4-27-30-33

Transformer Technicians Inc
2608 N Cicero Ave Chicago 39 Ill 18-30

Transformers Inc
200 Stage Rd Vestal NY 30

Transistor Electronics Co
2357 Republic Ave
Minneapolis 26 Minn 3-18-25-41

Tranonic Inc
808 16 St Bakersfield Calif 33

Tresco Inc
3824 Terrace St
Philadelphia 28 Pa 2-3-27-33

Triad Transformer Corp
4055 Redwood Ave
Venice Calif 11-12-18-18-26-
30-33-36-37-38-39

Tri-Dex Electronics
P O Box 1207 Lindsay Calif 3-18-19-21-28

Tronex Inc
Wheaton Ave Millvale NJ 30

Tronic Coil Winding Co Inc
58 Wesley St Waterbury Conn 1-24-27

Turbo Jet Products Inc
424 S San Gabriel Blvd
San Gabriel Calif 3-15-19-21-24-28-32-33

United Aircraft Products Inc
1116 Bolander Ave Dayton 8 Ohio 24

United Fabricators & Electronics Inc
Myrtle & Water Sta Stillwater Minn 1-2-4

United Transformer Corp Pacific Div
4008 W Jefferson Blvd 3-8-10-11-13-18-19-
Los Angeles 16 Calif 23-27-28-30-32-33

United Transformer Corp
150 Varick St
New York 13 NY 3-18-27-30-31

Universal Mfg Co
Grove St Irvington NJ 6-30

Univox Corp
102 Warren St New York 7 NY 8

US Electronics Corp
278 Warren St 7-11-12-13-14-15-16-17-
Lyndhurst NJ 18-19-24-25-26-27-28-29-
30-33-36-37-38-39-40-41

US Plastic Molding Corp
Carlton St Wallingford Conn 1-2

Valandy Electronics Corp
61-35 166 St Flushing 68 NY 33

Valley Electronics Co
18214 Greenhaw Blvd Gardena Calif 30

Vanguard Electronics Co
3334 Motor Ave
Los Angeles 54 Calif 3-7-16-25-26-40-41

Vari-L Co
432 Fairfield Ave Stamford Conn 27-30-31

Varo Mfg Co 3-7-8-10-11-12-13-15-16-17-18-
2201 Walnut St 19-21-22-23-24-25-26-
Garland Texas 27-28-30-31-32-33-40

Vibraspower Co James
408 N Rockwell St Chicago 14 Ill 1-2-33

Vibra Seal Corp
2832 E Grand Blvd
Detroit 11 Mich 1-2-3-4-19-28-33

Vickers Inc Electric Products Div
1887 Locust St
St Louis 8 Mo 18-19-27-30-33

Virginia Electronics Co
River Rd & B & O R R 3-7-8-10-16-24-
Washington 16 DC 25-26-27-28-33-40-41

Volto Mfg Co
2154 N Halsted St 1-3-7-8-16-25-
Chicago 14 Ill 26-28-37-38-39-41

Vulcan Electric Co
88 Holten St Danvers Mass 14

Waco Inc
2032 Broadway
Santa Monica Calif 3-15-18-19-27-28-33

Walton Electronics Inc
4625 W 83 St Chicago 32 Ill 3-12-29

Warsaw Coil Co
Sexal St 1-2-3-7-10-16-18-19-
Warsaw Ind 24-25-28-38-39-41

Waters Mfg Inc
Boston Post Rd
Wayland Mass 1-2-3-4-7-16-25-26-28-30-40-41

West Coast Electrical Mfg Corp
233 W 116 Pl Los Angeles 61 Calif 28

Western Coil Products Co
959 Commercial St 7-11-12-13-16-18-19-
Palo Alto Calif 21-24-25-26-27-28-41

Westinghouse Electric Corp
P O Box 868
Pittsburgh 30 Pa 1-3-16-25-26-30-31

Weymouth Instrument Co
1440 Commercial St
E Weymouth 89 Mass 1-2-3-5-19-24-25

Wheaton Co T C
Millville NJ 20

Wheeler Insulated Wire Co
150 E Aurora St
Waterbury 20 Conn 3-12-19-24-28-30-32-33

Whitewater Electronics Inc
135 Main St 1-2-3-5-7-9-16-17-18-19-
Whitewater Wisc 21-23-25-26-28-38-39-40-41

Wilco Corp
848 Dwyer St Indianapolis 21 Ind 3-41

Wire Electronics Inc
9910 Rush St 3-7-8-15-16-18-28-26-
El Monte Calif 28-35-38-39-40-41

Wisconsin Porcelain Co
121 Lincoln E Sun Prairie Wisc 4

Wright Zimmerman Inc
New Brighton St Paul 12 Minn 13-16

Wyeth Eng'g Inc
9911 Walden Pkwy
Chicago 48 Ill 30

Z & W Mfg Corp
30240 Lakeland Blvd
Wickliffe Ohio 1-3-19-28

18—COMMUNICATION SYSTEMS

Aircraft	1
Airport traffic control	2
Carrier current	3
Civil defense	4
Commercial	5
Facsimile	6
Induction	7
Intercom	8
Marine	9
Microwave	10
Mobile	11
Multiplex	11
Portable	12
Railroad	12
Search & Rescue	14
Selective paging	15
Single sideband	16
Speech scrambling	17
Telemetering	18
Telephone	19
Teletypewriter	20
TV microwave lines	21

Avco Electronic Div New Service	1200 W 3 St Cleveland 13 Ohio	6-12
Addressograph-Multigraph Corp	1200 Habitt Rd Cleveland 17 Ohio	5-6
Adler Electronics Inc	1 LeFevre Lane New Rochelle NY	10-12-16-18-21
Admiral Corp	38 W Cortland St Chicago 47 Ill	1-12
Advance Industries Inc	610 Memorial Dr Cambridge 39 Mass	9
Aeronautical Electronics Inc	P O Box 6527 Raleigh N Carolina	1-2-4-8-12-14-22
Aerona Mfg Corp	Hilltop & Frederick Rds Baltimore 28 Md	16
Aerona Mfg Corp	Middletown Ohio	16
Aeronutronic Systems Inc	1234 Airway Glendale Los Angeles Calif	18
Aerophysical Dev Corp Sub Curtiss-Wright	Corp P O Box 689 Santa Barbara Calif	18
Aircrom Inc	354 Main St Winthrop Mass	18
Aircraft Radio Corp	Buonton NJ	1-8-12
Airtone Inc	1108 W Elizabeth Ave Linden NJ	10
Airtronix Development Corp	4802 Church Ave Brooklyn 3 NY	8
Alden Electronic & Impulse	Recording Equip Co P O Box 128 Westboro Mass	6
Altec Lansing Corp	1515 S Manchester Ave Anaheim Calif	4-5-13
Amelco Inc	2040 Colo Ave Santa Monica Calif	18
American Communications Corp	280 Broadway New York 17 NY	4-19
American Electronic Laboratories	121 N 7 St Philadelphia 6 Pa	10-18
American Machine & Foundry Co	Defense Products Group 1101 N Royal St Alexandria Va	1-2-8-10-18
American Mica Insulation Co	235 Parker Ave Manasquan NJ	5
American Mica Radio Corp	285 Parker Ave Manasquan NJ	5-8-16
American Microwave Corp	11754 Vesp St N Hollywood Calif	2-10-18-21
American Printed Circuits Co	104 Forrest St Metuchen NJ	8
Anderton Electronic Lab	129 E 1800 S St Bountiful Utah	8-22
Andrew Antenna Corp	608 Beech St Whitby Ontario Can	21
Andrew Corp	363 E 75 St Chicago 19 Ill	4-5-10
Antennavision Inc	2949 W Osborn Phoenix Ariz	21
Applied Electronics Co	213 E Grand Ave S San Francisco Calif	9-22
Applied Research Inc	76 B Baylea Ave Port Washington NY	11
Applied Science Corp of Princeton	P O Box No 44 Princeton NJ	18
Arma Div American Bosch Arma Corp	Garden City NY	18
Arnoux Corp	11924 W Washington Blvd Los Angeles 66 Calif	18
A R & T Electronics Inc	1501 E 6th St N Little Rock Ark	19
Audicon Electronics Inc	216 Lyon St Paterson 4 NJ	1-5-7-8-11-15-19-22

Audio Equipment Co	405 Middle Neck Rd Great Neck NY	4-8
Audocall Co	57 Mack Ave Shelby Ohio	15
Auerbach Electronics Corp	109 N Easex Ave Narbeth Penna	18
Auth Electric Co	34-20 45 St Long Island City 1 NY	9-16-19
Automatic Electric Co	Northlake Ill	10
Automation Management Inc	Adams St Westboro Mass	6-8-20
Avco Mfg Corp Crosley Div	1329 Arlington St Cincinnati 25 Ohio	1-2
Avia Products Co	7266 Beverly Blvd Los Angeles 36 Calif	19-22
Avion Div ACF Industries Inc	11 Park Pl Paramus NJ	10
Barber Labs Alfred W	32-44 Francis Lewis Blvd Flushing 58 NY	16
Barker & Williamson Inc	Canal & Beaver Sts Bristol Pa	4-5-11-12-16-17-18-20-22
Bassett Inc Rex	1314 N E 17 Ct Ft Lauderdale Fla	5-9-12-22
Bell Aircraft Corp	P O Box 1 Buffalo 5 NY	10-18-22
Hell & Gossett Co/Dualex Div	2200 Austin Ave Morton Grove Ill	4-15
Bendix Aviation Corp Pacific Div	11600 Sherman Way N Hollywood Calif	2-9-18
Bendix Aviation Corp Bendix Radio Div	Baltimore 4 Md	1-2-4-5-12-18-22
Bendix Aviation Corp	1104 Fisher Bldg Detroit 2 Mich	1-2-5-8-9-12-13-14-18-22
Bendix Aviation Corp Cincinnati Div	3130 Wasson Rd Cincinnati 8 Ohio	1
Bennett Labs Inc	2700 Bay Rd Redwood City Calif	3-8-22
B I F Industries	345 Harris Ave Providence RI	18
Bliss Electronic Corp	Box 366 Sussex NJ	8-12-19
Boehme Inc H O	915 Broadway New York 10 NY	20
Bogen-Presto Div Siegler Corp	P O Box 500 Paramus NJ	8-15-19
Bristol Co	P O Box 1790 El Waterbury Conn	18
Browning Labs Inc	750 Main St Winchester Mass	11
Brubaker Electronics Inc	3652 Eastham Dr Culver City Calif	18
Budelman Radio Corp	375 Fairfield Ave Stamford Conn	3-4-5-10-11-15-21
Hunnell & Co J H	81 Prospect St Brooklyn 1 NY	5-6-20
Buss-Clement-Doughten & Associates	201 B Studio Hill Chester Springs Pa	8
Canadian Aviation Electronics Ltd	6214 Cote de Liesse Rd St Laurent Quebec Canada	1-2-10-14-19
Central Electronics Inc	1247 W Belmont Ave Chicago 13 Ill	16
Centronix Inc	34 Oleaner St Cocoa Fla	18
CG Electronics Corp	1500 Central St Albuquerque New Mex	15-18
Collis Electronics Co	2939-49 N 2nd St Phila 33 Penna	8
Collins Radio Co	855 35 St N E Cedar Rapids Iowa	1-2-5-10-11-16-21
Commercial Radio Sound Corp	652 1 Ave New York 16 NY	8-19
Communication Equipment & Eng'g Co	5646 W Rare Ave Chicago 44 Ill	3-5-8-13-15-18-19
Communications Co	300 Greco Ave Coral Gables Fla	1-2-5-22
Conn Telephone & Electric Corp	70 Britannia St Meriden Conn	8-12-19-20
Consolidated Avionics Corp	800 Shames Dr Westbury NY	18
Consolidated Electrodynamics Corp	300 N Sierra Madre Villa Pasadena Calif	18
Consolidated Productions Inc	Broward Intl Airport Ft Lauderdale Fla	4-5-8
Continental Electronics Ltd	302 Oakland St Brooklyn 22 NY	8-10-20
Continental Electronics Mfg Co	4212 S Buckner Blvd Dallas 27 Texas	5-10-16
Control Corp	718 Central Ave N E Minneapolis 14 Minn	18
Control Electronics Co Inc	1925 New York Ave Huntington Sta NY	1-10
Corbin Corp	5419 56th Place Riverdale Md	1-2-6-11-16-17-18
Cowser Canada Ltd	301 Windsor St Halifax Nova Scotia Canada	1-4-3-9-22
Craig Systems Inc	90 Holten St Danvers Mass	1-2-3-4-6-9-10-14-18-19-20-22

Creative Electronics Corp	94 Lincoln Ave Stamford Conn	1-4-9-12-16-20-22
Crosby Lala Inc	Box 233 Robbins Lane Hicksville NY	5-16
Crown Engineering	3821 Commercial N E Albuquerque NM	8
Daimotron Co	534 Laurel St San Carlos Calif	8
Daven Co	Route 10 Livingston NJ	1-2-9-11-12-13-14-16-18-19-22
Dayton Aviation Radio & Equipment Corp	P O Box 258 Troy Ohio	1-2-4-5
Denson Electronics Corp	P O Box 122 Rockville Conn	20
Designers For Industry	4241 Fulton Pkwy Cleveland 9 Ohio	6-12-14-16
Diamond Antenna & Microwave Corp	7 North Ave Wakefield Mass	10-21
Duty Acoustical Electronic Labs	Tobyhanna Penna	15
Dukane Corp	St Charles Ill	4-5-8-12-16-19
Du Mont Labs A B	750 Bloomfield Ave Clifton NJ	4-11-22
Dynac Inc	395 Page Mill Rd Palo Alto Calif	18-20
Dynamic Electronics Inc	73-29 Woodhaven Blvd Forest Hills NY	1-2-3-4-5-7-8-9-10-11-14-16-21-22
Dynatronix Inc	717 W Amelia Ave Orlando Fla	11-18
Eldico Electronics	29-01 Barden Ave Long Island City 1 NY	1-2-4-5-9-12-13-14-16-19-20-22
Electrical Communications Inc	755 Clementina St San Francisco 3 Calif	1-3-5-6-7-8-9-10-11-12-13-14-15-16-18-19-20-21-22
Electronic Communications Inc	1501 72 St St Petersburg Fla	1-6-16-18
Electronic Control Systems	2231 Harrington Ave Los Angeles 64 Calif	1-2-10-11-15-17-20
Electronic Eng'g Co	362 W Bowers St Akron 7 Ohio	5-8-15
Electronic Production & Development	138 Nevada St El Segundo Calif	5
Electronic Secretary Industries Inc	805 S 5 St Milwaukee 4 Wis	19
Electronics Design Co	400 E Carnell St P O Box 401 Enid Okla	2-4-5-12-14-22
Electronic Specialty Co	1121 San Fernando Rd Los Angeles 39 Calif	1-2-8-10-11
Electro Sound Corp	115 Halleck St Boston 15 Mass	3-4-5-7-8-9-12-14-15-19
Elm Labs	10 Washington Ave Huntington-Hudson NY	8
Empire Product Sales Corp	37 Prospect St Amsterdam NY	10
Eprad Co	1206 Cherry St Toledo 4 Ohio	5-22
Epro Inc	588 Commonwealth Ave Boston 15 Mass	18
Erco Radio Labs Inc	627 Stewart Ave Garden City NY	2-3-4-5-9-11-12-13-16-22
Executives Inc	415 Lexington Ave New York 17 NY	8-15
Fanon Electric Co	90 Berriman St Brooklyn 8 NY	3-5-8-12-15-19
Federal Telecommunication Labs Div I&T	937 Commercial St Palo Alto Calif	11-19
Feiler Eng'g & Mfg Co	8026 N Monticello Ave Skokie Ill	3-5-7-8-11-12-13-15
Femco Inc	Box 32 Irwin Pa	3
Fisher Berkeley Corp	4224 Holden St Emeryville 8 Calif	5-8-15-19
Flush Wall Radio Co	1012 Cleveland St Clearwater Fla	8-16
Fox Co Thomas T	95 Summit St Newark NJ	6-8-10-18
F-R Machine Works Inc	Electronic & X-Ray Div 26-12 Borough Pl Woodside 77 NY	10-21
Gai-Tronics Corp	607 Washington St Reading Penna	5-8-13-16-19
Gates Radio Co	123 Hampshire St Quincy Ill	2-5-8-11-15
General Bronze Corp	711 Stewart Ave Garden City NY	10-21
General Communication Co	677 Reagon St Boston 15 Mass	10
General Devices Inc	P O Box 253 Princeton NJ	18
General Electric Co	Communication Products Dept P O Box 1122 Syracuse NY	3-4-5-9-10-11-13-14-16-18-22
General Electric Co	Heavy Mil Electronic Equip Dept Syracuse NY	18
General Electric Co Light Military	Electronic Equip Dept French Rd Utica NY	1

General Railway Signal Co P O Box 600 Rochester NY	2-13-18	Loge Sound Engrs J M 2171 W Washington Blvd Los Angeles 18 Calif	8-12	PermoFux Products Co 4101 San Fernando Rd Glendale 4 Calif	7-8
Geotechnical Corp 3712 Haggard Dr Dallas 9 Texas	18	Lorain County Radio Corp 203 9th St Lorain Ohio	9	Phileo Corp Tioga & C Sts Philadelphia 24 Pa	2-5-9-10-12-15-21-22
G & M Equipment Co 7315 Varna Ave N Hollywood Calif	8-9	Loral Electronics Corp 825 Bronx River Ave New York 72 NY	10	Phileo Corp Govt & Industrial Div 4700 Wissahickon Ave Philadelphia 44 Pa	1-3-5-8-10-11-12-13-15-18-21-22
Godfrey Mfg Co 1633 N Halsted St Chicago 14 Ill	8	Lynch Carrier Systems Inc 695 Bryant St San Francisco 7 Calif	3-5-11-13-16-17-18-19	Polarad Electronics Corp 43-20 34 St Long Island City NY	10
Granger Associates 966 Commercial St Palo Alto Calif	10	Lynmar Engineers Inc 1432 N Carlisle St Philadelphia 21 Pa	16	Polytron Research Inc 7660 Woodbury Dr Silver Spring Md	10-21
Gruen Industries Inc/Electronic Products Div 9701 Reading Rd Cincinnati 15 Ohio	2	Kleinschmidt Labs Inc County Line Rd Deerfield Ill	1-4-5-8-12-13-18-20-22	Pratt Albert 118 W Lake View Ave Milwaukee 17 Wis	22
Gulton Industries Inc 212 Durham Ave Metuchen NJ	15-18	Madigan Corp 526 Mineola Ave Carle Place NY	1-2-4-5-9-12-13-16-22	Premier Instrument Corp 52 W Houston St New York 12 NY	10-21
Hallamore Electronics Co 8352 Brookhurst Ave Anaheim Calif	18	Magna Electronics Co 9810 Anza Ave Inglewood 1 Calif	12	Press Wireless Labs Inc 25 Prospect Pl W Newton 65 Mass	5
Haller Raymond & Brown Circleville Rd State College Pa	1-2-3-4-8-9-10-11-12-14-15-16-18-22	Magnavox Co 2131 Bueter Rd Ft Wayne Ind	1-5	Prodelin Inc 307 Bergen Ave Kearny NJ	10-21
Hall-Scott Inc 2950 N Ontario St Burbank Calif	8-18	Magnavox Corp 2131 Bueter Rd Ft Wayne 4 Ind	1	Production Research Corp Thornwood NY	4-12-14
Hazeltine Electronics Div Hazeltine Corp 59-25 Little Neck Pkwy Little Neck 62 NY	1-2-22	Magnet Instrument Co 546 Commerce St Thornwood NY	18	Pye Canada Ltd 82 Northline Rd Toronto 16 Ontario Canada	1-2-3-5-9-10-11-12-19-21-22
Hoffman Electronics Corp 3761 S Hill St Los Angeles 7 Calif	1-2-5-10-14-16	Magnetic Research Corp 3160 W El Segundo Blvd Hawthorne Calif	18	Pye Corp of America 307 Raritan Ave Highland Park NJ	1-2-9-22
Hogan Labs Inc 155 Perry St New York 14 NY	6-11	Maico Co Inc 21 N 3rd St Minneapolis 1 Minn	18	Pye Telecommunications Ltd Newmarket Rd Cambridge England	2-4-5-8-9-10-11-12-13-14-18-19-20-21-22
Hoover Electronics Co 112 W Timonium Rd Timonium Md	18	Majestic Int'l Corp 79 Washington St Brooklyn 1 NY	8	Radiation Inc P O Box 37 Melbourne Fla	18
Houston Fearless Div Color Corp of America 11801 W Olympic Blvd Los Angeles 64 Calif	10-18	M-B Communication Co 4626 Walnut St Philadelphia 39 Pa	5-8-10-18	Radio City Products Co Centre & Glendale Sts Easton Pa	14
Hudson American 29 01 Borden Ave Long Island City NY	9	Measurement Eng'g Ltd 232 John St Arnprior Ontario Can	2-5-9-17-19	Radio Corp of America Commercial Electronic Products Front & Cooper Sts Camden NJ	10-21
Industrial Radio Corp 428 N Parkside Ave Chicago 44 Ill	4-5-12-13-14-15-22	Meridian Metalcraft Inc 8739 S Millergrove Dr Whittier Calif	21	Radio Eng'g Labs 29-01 Borden Ave Long Island City 1 NY	10-16
Instrument Corp of Fla P O Box 125 Bldg 14 Melbourne Fla	5-16-22	Michigan Electronics Inc 854 N Rockwell St Chicago 22 Ill	4-5-7-8-9-12-13-14-15	Radio Eng'g Products Ltd 1080 University St Montreal 8 Que Canada	3-11-18-19-20
Insul-S-Electronics 1369 Industrial Rd San Carlos Calif	2-21	Microwave Eng'g Labs Inc 943 Industrial Ave Palo Alto Calif	10-11-17-18-20-21	Radio Frequency Labs Inc Houton NJ	18-20
Intelix Systems Inc 22 Thames St New York 6 NY	5-8-10-16-17-19-20	Minn-Honeywell Regulator Co Ordinance Div 600 2 St N Hopkins Minn	20	Radio Specialty Mfg Co 223 S E 6 Ave Portland 14 Ore	4-12
International Research Associates 2221 Warwick Ave Santa Monica Calif	1	Missileonics Inc P O Box 716 Melbourne Fla	13	Railway Communications Inc 9351 E 59 St Raytown 33 Mo	3-13-19-20-22
Interstate Electronics Corp 707 E Vermont Ave Anaheim Calif	3-18	Mitchell Industries Inc Municipal A P P O Box 17 Mineral Wells Texas	1	Rauland-Borg Corp 3535 W Addison St Chicago 18 Ill	1-4-5-8-15-22
I-T-E Circuit Breaker Co Special Products Div 601 E Erie Ave Philadelphia 34 Pa	10	Moore Associates Inc 2628 Spring St Redwood City Calif	3-5-11-13-18-19-20	Raytheon Mfg Co 100 River St Waltham 54 Mass	10
Jacobs Instrument Co 4718 Bethesda Ave Bethesda 14 Md	18	Morrow Radio Mfg Co 2794 Market St Salem Oregon	4-5-22	Raytheon Mfg Co Commercial Equip Div 100 River St Waltham 64 Mass	10-21
Jarvis Electronics Corp 1140 Cherry St Winnetka Ill	1	Moser Research Products Inc 3 Keeler St Danbury Conn	12	Rea Co J B 1723 Cloverfield Blvd Santa Monica Calif	1-2-8-18
Johnson Aircraft Eng'g Co Geophysical Services Div P O Box 10 Morristown NJ	18	Motigraph Inc 4441 W Lake St Chicago 24 Ill	8-15	Remler Co 211 Bryant St San Francisco Calif	1-3-7-8-9
Johnson Co E F 206 2 Ave SW Waseca Minn	16	Motorola Communications & Electronics Inc 4601 W Augusta Blvd Chicago 51 Ill	1-4-10-11-12-13-15-16-21-22	Resdel Eng'g Corp 330 S Fair Oaks Ave Pasadena Calif	1-5
J-V-M Eng'g Co 4633 S Lawndale Ave Lyons Ill	10	Muirhead Instruments Inc 677 S Ave New York 22 NY	6	Rheem Mfg Co Electronics Div 7777 Industry Ave Downey Calif	18
Kaar Eng'g Corp 2995 Middlefield Rd Palo Alto Calif	2-4-5-9-12-22	Mycalex Corp of America 125 Clifton Blvd Clifton NJ	18	Rhein Sound Systems Inc 138 Hamilton St New Haven 5 Conn	8
Kahn Research Labs 22 Pine St Freeport NY	1-5-9-11-13-15-19	National Aeronautical Corp Commerce Dr Ft Washington Penna	1	Rich Electronics Inc 212 N W 8 Ave Miami 36 Fla	18
Kearfott Co Inc 14844 Oxnard St Van Nuys Calif	10	National Aircraft Corp Electronics Div 3411 Tulare Ave Burbank Calif	1-14	Rixon Electronics Inc 2414 Reddie Dr Silver Spring Md	11
Kearfott Co Inc 1379 Main Ave Clifton NJ	9-10	National Electronics Labs Inc 1718 Kalamara Rd NW Washington 9 DC	2-11-22	Royal Communication Systems 1122 Euclid Ave Cleveland 6 Ohio	22
Kemlite Labs Inc 1819 W Grand Ave Chicago 22 Ill	14	Neill Co R W 4820 Montrose Ave Chicago 41 Ill	5-8-13	Rue Products 1628 Venice Blvd Venice Calif	4-9-12-22
Kilgen Aircraft Div Kilgen Organ Co 4632 W Florissant Ave St Louis 15 Mo	2	Nevada Air Products Co P O Box 2472 Reno Nev	1-2-18	Scantlin Electronics Inc 11624 W Pico Blvd Los Angeles 64 Calif	15-17
Kleinschmidt Labs Inc County Line Rd Deerfield Ill	1-4-5-8-12-13-18-20-22	Northeast Electronics Corp Airport Rd Concord NH	5-22	Scatter-Communications Inc 4923 St Elmo Ave Bethesda 14 Md	5-10-11
Kuss Industries Inc Tacony & Lewis Sts Philadelphia 24 Pa	8	North Electric Co 583 S Market St Gallion Ohio	2-3-5-8-12-13-15-18-19	Seeley Electronics 1060 S Labrea Ave Los Angeles 19 Calif	5-15-22
Lake Mfg Co 2323 Chestnut St Oakland 7 Calif	8	Northern Radio Co 143 W 23 St New York 11 NY	4-6-11-18-20	Seismograph Service Corp 6200 E 41 St Tulsa 1 Okla	19
Lambda-Pacific Eng'g Inc 14725 Arminta St Van Nuys Calif	10-21	Nuclear-Electronics Corp 2632 W Cumberland St Philadelphia 32 Pa	9	Servomechanisms Inc 12500 Aviation Blvd Hawthorne Calif	18
Lead-Air Inc Instrument & Electronic Div 2133 Adams Ave San Leandro Calif	1	Nuclear Products-Erco Div ACP Industries Inc Riverdale Md	10	Shand & Jurs Co 2600 8th St Berkeley 10 Calif	18
Lead-Air Inc 7444 W Wilson Ave Chicago 31 Ill	5-22	O'Brien Electric Corp 6514 Monica Blvd Hollywood 38 Calif	8-15	Skiatron Electronics & TV Corp 180 Varick St New York 14 NY	2-5-6-11-15-17-18-20
Lane Electronics Mfg Corp 7254 Atoll Ave N Hollywood Calif	8	Olympic Radio & TV 34-01 38 Ave Long Island City 1 NY	1	Smith-Meeker Eng'g Co 157 Chambers St New York 7 NY	1-8-13-15
Lear Inc 3171 S Bundy Dr Santa Monica Calif	1-2	Otis Elevator Co Electronics Div 38 Ryerson St Brooklyn 5 NY	1-2-16-18-20	Sonar Radio Corp 3050 W 21 St Brooklyn 14 NY	9
Lel Inc 380 Oak St Copiague NY	7	Packard Bell Electronics Corp 12833 W Olympic Blvd Los Angeles 64 Calif	1-2-4-5-12-14-18	Sparton Control Systems Div Sparks-Withington Co 2301 E Michigan Ave Jackson Mich	18
Lenhart Electric Co 1105 County Rd San Carlos Calif	3-5-10-11-16-18-19-20-22	Palmer Inc M V 4002 Fruit Valley Rd Vancouver Wash	3-5-7-8-11-15-16-17-18-19-20-22	Specialty Eng'g & Electronics Co 79 Clifton Pl Brooklyn 35 NY	12
Lico Inc 3610 Oceanside Rd Oceanside NY	21	Parsons Co Ralph M Electronics Div 151 S De Lacey Ave Pasadena Calif	18	Spivey Inc James E 4908 Hampden Lane Washington 14 D C	8-18
Ling Electronics Inc 9937 Jefferson Blvd Culver City Calif	10	Partrick & Wilkins Co 51 N 7 St Philadelphia 6 Pa	5-8	Springfield Enterprises 138-17 Springfield Blvd Springfield Gardens 18 NY	4-22
Link-Radio Corp 110 Jericho Turnpike New Hyde Park LI NY	4-5-8-10-13-15-16-19-20-22	Pearce Simpson Inc 3023 Coral Way Miami 84 Fla	9-22	Standaard Electronics Div Radio Eng'g Labs 30 & Borden Rts Long Island City NY	10-11
Linar Inc 4101 San Fernando Rd Glendale 4 Calif	7-8	Peer Inc 1200 Milton St Benton Harbor Mich	2	Statistical Instr Co 380 Haven Ave New York 20 NY	17-18
Liton Industries of Calif 336 N Foothill Rd Beverly Hills Calif	14-16	Perma-Power Co 3102 N Elston Ave Chicago 18 Ill	15		

Slavid Eng'g Inc
U S Route 22 Plainfield NJ 10-14-18

Stelma Inc
190 Henry St Stamford Conn 3-13-20

Stewart Warner Electronics Div
1300 N Kostner Ave Chicago 61 Ill 8

Stratford Corp
44 W 28 St New York 1 NY 1-8

Stromberg-Carlson Div General
Dynamics Corp 100 Carlson Rd
Rochester 3 NY 3-8-8-10-11-13-15-19

Sylvania Electric Products Co
Electric Systems Div
100 First Ave
Waltham 54 Mass 1-10-11-14

Sylvania Electric Products Inc
1740 Broadway New York 19 NY 1-10

Talk-A-Phone Co
1512 S Pulaski Rd
Chicago 23 Ill 3-5-8-16

Taller & Cooper
75 Front St Brooklyn 1 NY 18

Tarzan Inc Sarks
415 N Collier Ave Bloomington Ind 10-21

Technical Material Corp
700 Fenimore Rd
Mamaroneck NY 1-2-4-5-6-9-11-
14-16-19-20-22

Technical Oil Tool Corp
1057 N La Brea
Los Angeles 38 Calif 10-14-18-21

Telautograph Corp
5700 Hellanca Ave
Los Angeles 45 Calif 2-5-6

Teletype Mfg Corp
28 Ranick Dr
Amityville LI NY 6-16-17-18-19-20-21

Telectro Industries Corp
35-18 87 St
Long Island City 1 NY 10-11-16-18

Tel-Dynamics Inc
51 & Parkside Ave
Philadelphia Pa 10-18-22

Telemarine Communications Co
140 W Broadway New York 13 NY 2-5-9

Telephonics
Park Ave Huntington LI NY 1-8-16-19

Telerad Mfg Corp
Route 69 Flemington NJ 10

Telerad Mfg Corp
1440 Broadway New York 18 NY 10

Teletronic Labs Inc
1835 W Rosecrans Ave Gardena Calif 8

Temco Aircraft Corp
P O Box 6191 Dallas 2 Texas 18

Texas Instruments Inc
6000 Lemmon Ave Dallas 9 Texas 8

Times Facsimile Corp
510 W 58 St New York 19 NY 6-6

Topatun Inc
942 F Ojai Ave Ojai Calif 2

Topp Industries Inc
8907 Wilshire Blvd
Beverly Hills Calif 1-2-9-10-16

Transelectric Mfg Co
P O Box 355 Oxford Pa 8

Transline Electronic Communication Co
96 Summit St Newark 6 NJ 6-7-8-15

Trans-Tel Corp
910 N Orange Dr
Los Angeles 24 Calif 5

Truone Electronics Inc
6912 Santa Monica Blvd
Los Angeles 28 Cal 11

Ultradyne Eng'g Labs
P O Box 3308 Albuquerque NM 18

Union Switch & Signal Div
1789 1807 Braddock Ave Swissvale P O
Pittsburgh 8 Pa 7-12-13

United Electronics
1200 S MacKenzie Ave
Pasadena Calif 18

University Loudspeakers Inc
80 S Kensico Ave
White Plains NY 4-12-22

U S Instrument Corp
P O Box 1181 Charlottesville Va 5-8-9

Van Norman Industries Inc Electronics Div
186 Granite St Manchester NH 16-22

Vapor Recovery Systems Co
2820 N Alameda St Compton Calif 18

Varo Mfg Co
2201 Walnut St
Garland Texas 2-5-12-15-18-22

Victor RF & Microwave Co
36 W Water St Wakefield Mass 10

Virginia Electronics Co
River Rd & B & O RR
Washington 16 D C 1-2-4-8-9-12-17-22

Vocaline Co of America
Coulter St Old Saybrook Conn 8-12

Voron & Co George
835 N 19 St Philadelphia 30 Pa 5-8-19

Warren Corp J C
21 Hanse Ave Freeport NY 12-22

Warren Mfg Co
Newtown Rd Littleton Mass 3-11-18

Waveguide Inc
14837 Oxford St Van Nuys Calif 10

Webster Electric Co
1900 Clark St Racine Wis 5-8-16

Wells-Gardner & Co
2701 N Kildare Ave Chicago 89 Ill 8

West Coast Electronics Co
9261 W 3 St Beverly Hills Calif 18

Westinghouse Electric Corp
P O Box 868
Pittsburgh 30 Pa 3-5-10-11-16-18

Westrex Corp
111 8 Ave New York 11 NY 6-16

Weymouth Instrument Co
1440 Commercial St E
Weymouth 89 Mass 10

Wheeler Insulated Wire Co
150 E Aurora St
Waterbury 20 Conn 4-5-19

Wicks Eng'g & Construction Co
12 St & Ferry Ave
Camden 4 NJ 2-12-22

Wilcox Electric Co
1400 Chestnut St Kansas City 27 Mo 1-2-16

Worner Electronic Devices
Rankin III 8

WRL Electronics Inc
3415 W Broadway Council Bluffs Iowa 16

Young Spring & Wire Co Gansett Div
801 S Main St
Burbank Calif 1-2-4-5-9-12-16-22

19—COMPUTERS

Accumulators 1

Amplifiers 2

Analog computers 3

Analog-to-digital converters 4

Board plugs 5

Computer components 6

Computer heads 7

Computer testers 8

Counters 9

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Data recorders, digital 11

Decoders 12

Delay lines 13

Demodulators 14

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AC Electronics Div GMC
1925 E Kenilworth Pl
Milwaukee 1 Wisc 3-4-17-18

Aeromag Inc
22519 Telegraph Rd Detroit 41 Mich 2-14

Adcon Corp
1117 Commonwealth Ave Boston 15 Mass 4-20

Addressograph-Multigraph Corp
1200 Bahitt Rd
Cleveland 17 Ohio 11-22-31-33-37

Advance Industries Inc
640 Memorial Dr
Cambridge 39 Mass 3-4-12-16-17-18-38-50

Ad-Yu Electronics Lab Inc
249 Terhune Ave Passaic NJ 13

Aero Electronics Co
1512 N Wells St Chicago 10 Ill 3-38

Aeronca Mfg Corp
Hilltop & Frederick Rds
Baltimore 28 Md 4-6-11-17-18-
20-22-31-36-38

Aeronca Mfg Corp
2-8-4-11-12-18-20-
21-22-31-36-40

Aeronutronic Systems Inc
1234 Airway Glendale 3-4-6-10-11-15-16-17-
18-19-21-22-23-31-32

Aerophysics Dev Corp Sub Curtis-Wright Corp
P O Box 689 Santa Barbara Calif 3-17

Airflyte Electronics Co
535 Avenue A Bayonne NJ 4-13-19

Airmec Ltd
High Wycombe Buckinghamshire England 2-3

Airpax Products Co Seminole Div
City of Plantation Ft Lauderdale Fla 14

AiResearch Mfg Co Div Garrett Corp
9851 Sepuveda Blvd
Los Angeles 45 Calif 2-22-31

Airtronics Inc
5522 Darsey Lane
Bethesda Md 2-6-22-27-28-41-46

Aladdin Electronics Div Aladdin Industries
703 Murrefsboro Rd Nashville 10 Tenn 13

Alectra
Div Consolidated Electrodynamics Corp
325 N Altadena Dr Pasadena Calif 13

Alden Electronic & Impulse Recording
Equip Co
P O Box 125 Westboro Mass 10-11-12-38

Alden Products Co
12358 N Main St Brockton 64 Mass 6-13-27

Allegany Instrument Co
1091 Wills Mountain Cumberland Md 2-3

Alnac Corp
13040 S Cerise Hawthorne Calif 17

AltoScientific Co
855 Commercial St Palo Alto Calif 6-8

Alwac Corp
13040 S Cerise Hawthorne Calif 6-8-17-26-32

American Electronic Laboratories
121 N 7 St Philadelphia 6 Pa 2-3-8-17

American Electronics Inc
655 W Washington Blvd
Los Angeles 15 Calif 2-3-4-9-10-11-18-39-50

American Electronics Inc Instrument Div
0503 W Jefferson Blvd
Culver City Calif 39

American Machine & Foundry Co
Electronics Div
1085 Commonwealth Ave Boston 15 Mass 28

American Machine & Foundry Co Defense
Products Group 1101 N Royal St
Alexandria Va 4-8-11-18-34

American Rectifier Corp
95 Lafayette St New York 13 NY 6

American Research & Mfg Corp
920 Halpine Ave Rockville Md 2

Amphenol Electronics Corp
1830 B 54 Ave Chicago 50 Ill 5-6

Analogue Controls Inc
39 Roselle St
Mineola NY 2-3-4-6-10-11-15-16-
17-18-30-32-33

Andersen Labs Inc
501 New Park Ave W Hartford Conn 13

Andromeda Inc
3742 Howard Ave
Kensington Md 2-4-12-18-20-23-30

Anelox Corp
150 Causeway St Boston 15 Mass 33-35

Aneco Div Genl Aniline & Film Corp
Charles St Binghamton NY 48

Antlab Inc
6330 Proprietors Rd
Worthington Ohio 10-32

Applied Magnetics Corp
Santa Barbara A P Blvd 304 Goleta Calif 7

Arenberg Ultrasonic Laboratory
94 Green St Jamaica Plain 30 Mass 13

Arnoux Corp
11924 W Washington Blvd
Los Angeles 66 Calif 11

Arrow Tool Co Inc
36 Mill St Wethersfield Conn 6-26-28-33-50

Atlas Precision Products Co
3801 Castor Ave Philadelphia 24 Pa 8

Auerbach Electronics Corp
109 N Essex Ave
Narberth Penna 4-6-8-12-17-20-22-
23-24-31-38-41

Aurex Corp
1117 N Franklin St Chicago 10 Ill 22-46

Austin Co Special Devices Div
76 9 Ave New York 11 NY 3-4-10-11-17-22-31

Automation Inc
212 Worcester St
Wellesley Hills 82 Mass 6-23-26-46

Automation Management Inc
Adams St Westboro Mass 17

Avion Div ACF Industries Inc
11 Park Pl Paramus NJ 2-4-12-18-20-23-38

Baird-Atomic Inc
33 University Rd
Cambridge 38 Mass 1-2-3-4-6-9-10-11-15-
16-17-18-33-38

Balco Research Labs
49-53 Edison Pl Newark 2 NJ 6

Baldwin Piano Co
1801 Gilbert Ave Cincinnati 3 Ohio 4-20

Beckman-Berkeley Div Beckman Instruments
Inc 2200 Wright Ave
Richmond 3 Calif 3-6-10-11-17-30

Beckman/Heliport Corp
Newport Beach Calif 13

Beckman Instruments Inc Data & Control
Systems Scientific Instrument Div
325 N Muller Ave
Anaheim Calif 2-3-4-9-10-11-18-34-38

Beckman Instruments Inc Process
Instruments Div 2500 Fullerton Rd
Fullerton Calif 4-6-10-11-18

Becks Inc
298 E 5 St St Paul 1 Minn 6-19-24

Rel Fuse Inc
311 Mountain Rd Union City NJ 13

Bell Aircraft Corp P O Box 1 Buffalo 5 NY	3-17	Cook Co Frank R 36 S Santa Fe Dr Denver 28 Colo	1	Electronics Eng Co of Calif 1601 E Chestnut St Santa Ana Calif	4-6-12-17-18-20-22-23-31
Bendix Aviation Corp Bendix Computer Div 5630 Arbor Vitae St Los Angeles 45 Calif	16-17-37-46	Cook Electric Co 2700 Southport Ave Chicago 14 Ill	50	Electro Systems Inc 1035 Westminster Ave Alhambra Calif	4-21-50
Bendix Aviation Corp 1104 Fisher Bldg Detroit 2 Mich	3-4-6-17	Corbett Science Labs F W 3117 Venice Blvd Los Angeles 19 Calif	38-39	Endevco Corp 161 E California St Pasadena Calif	4-9
Benson-Lehner Corp 11930 W Olympic Blvd Los Angeles 64 Calif	11-16-22-32-38	Corbin Corp 5419 56th Place Riverdale Md	3-4-17-18-21-22-23-31	El-Rad Mfg Co 2800 W Cullom Ave Chicago 18 Ill	13
Bergon Labs 247 Crooks Ave Clifton NJ	26-28-46-50	Cubic Corp 5575 Kearny Villa Rd San Diego 11 Calif	4-11-38	Engineered Electronics Co 506 E 1 St Santa Ana Calif	2-4-6-9-18-23- 24-29-38-41-49
Berndt-Bach Inc Auricon Div 6900 Romaine Ave Hollywood 38 Calif	10-11	Cunningham Son & Co James 33 Litchfield St Rochester 8 NY	4-12-24-40-41-47	Epic Inc 588 Commonwealth Ave Boston 15 Mass	4-6-9-12-13- 18-20-23-38-41-46
B J Electronics Borg-Warner Corp 3300 Newport Ave Santa Ana Calif	11-26-46	Dallona Labs 5066 Santa Monica Blvd Los Angeles 29 Calif	13	Eric Resistor Corp 644 W 12 St Erie 6 Pa	9
Bliley Electric Co Union Station Bldg Erie Pa	18	Datex Div G M Giannini & Co 1307 S Myrtle Ave Monrovia Calif	4-11-18	ESC Corp 534 Bergen Blvd Palisades Park NJ	13
Bogue Electric Mfg Co 52 Iowa Ave Paterson 3 NJ	21	Daystrom Instrument Div Daystrom Inc Archbald Pa	27	Essex Electronics Div NYT Electronics Inc 2302 Atoll Ave N Hollywood Calif	18
Brew & Co Richard II 90 Airport Rd Concord NH	13	Dayton Aviation Radio & Equipment Corp P O Box 258 Troy Ohio	2-8	Essex Electronics 550 Springfield Ave Berkeley Heights NJ	13
Briggs Associates 10 DeKalb St Norristown Pa	2-10-11-27-28	De Flores Co 116 E 30 St New York 16 NY	3-5-26-38-46-47	Essex Electronics 99 Wragge St Trenton Ont Canada	18
Bristol Co P O Box 1790 El Waterbury Conn	3-4-10-11	Delaware Products Co 300 Broadway Camden 3 NJ	4-11	Exact Eng'g & Mfg Inc 190 E Box 66 Greenside Calif	4-6-9-20
British Electronic Sales Oakland Gardens Flushing 64 NY	33	Designers For Industry 4241 Fulton Pkwy Cleveland 8 Ohio	6-8-10-11-17-21-23-32-47-50	Fairchild Controls Corp Components Div 225 Park Ave Hicksville LI NY	6
Brubaker Electronics Inc 3652 Eastham Dr Culver City Calif	12-13	Devol Research Co Brookside Dr Greenwich Conn	4-6-11-18-26-46	Farnsworth Electronics Co Div I T & T 3702 E Pontiac St Ft Wayne Ind	12-18-29-30-38-49
Brush Instruments 3405 Perkins Ave Cleveland 14 Ohio	2-10	Diehl Mfg Co Finderne Ave Somerville NJ	39	Feedback Controls Inc 593 Main St Waltham 54 Mass	3-4-18
Bryant Gage & Spindle Div Box 620 Springfield Vt	7-19-26-46	Dietzen Co Eugene 2425 N Sheffield Ave Chicago Ill	36-48-49	Felsinthal & Sons Inc G 3500 N Kedzie Ave Chicago 18 Ill	6-19-32
Burnell & Co 10 Pelham Pkwy Pelham Manor NY	13	Digital Equip Corp Maynard Mass	1-4-8-9-12-17-18-23-27-41-46	Fen-Tone Corp 106 5th Ave New York 11 NY	50
Burroughs Corp 6071 2 Ave Detroit 82 Mich	17-22-33-38	Digitronics Corp Albertson Ave Albertson LI NY	6-7-8-11-18-22-23-26-27- 28-31-38-44-45-46-47-48-50	Ferranti Electric Inc 3 Rockefeller Plaza New York 20 NY	4-6-13-17-18- 22-23-26-42-50
Burroughs Corp Electronic Tube Div Box 1226 Plainfield NJ	6-9-12-39-49	Dilectron Div Gudeman Co 2669 S Myrtle Ave Monrovia Calif	13	Ferroxolite Corp of America 35 E Bridge St Saugerties NY	24-27
Burroughs Corp 3-4-5-8-9-10-11-13-14-17- 6071 2 Ave	18-22-26-27-28-30-31-33- 34	Donner Scientific Co 888 Galindo St Concord Calif	3-6-21-22-30	Filtron Co 131-15 Fowler Ave Flushing 55 NY	13
Cal-Ohm Labs Inc Broadway & Adams St Stevling Kansas	3-4-6-17-21-30	Dukane Corp St Charles Ill	2	Fischer & Porter Co 478 Warminster Rd Hatboro Pa	4-6-10-12-38
Canadian Aviation Electronics Ltd 6214 Cote de Liesse Rd St Laurent Quebec Canada	3-13	DuMont Labs A B 750 Bloomfield Ave Clifton NJ	29-49	Forbes & Wagner Inc 343 Central Ave Silver Creek NY	6-13-27
Century Electronics Co 84 Oleander St Cocoa Fla	17	Dunlap Electronics 764 9 St Des Moines 14 Iowa	9	Ford Instrument Co Div Sperry Rand Corp 31-10 Thomson Ave Long Island City 1 NY	3-4-6-17-39
Centronix Inc 34 Oleander St Cocoa Fla	4	Dwyer Eng'g Co Fine St Ext Nashua NH	2	Fox Co Thomas T 995 Summit St Newark NJ	33-39
CG Electronics Corp 1500 Central St Albuquerque New Mex	4-6-12-18-23-24	Dynac Inc 395 Page Mill Rd Palo Alto Calif	4-9-11-18-35-37-38	Franklin Electronics Inc E 4th St Bridgeport Pa	2-4
Chrono-Log Corp P O Box 4587 Phila 31 Penna	22-31	Dynalysis Development Labs Inc 11941 Wilshire Blvd Los Angeles 25 Calif	2-3-30	Gates Radio Co 123 Hampshire St Quincy Ill	3
Cinema-Television Ltd Worsley Bridge Rd Lower Sydenham London S E 26 England	25	Dynamics Instrumentation Co 1118 Mission St S Pasadena Calif	2	General Ceramics Corp Crows Mill Rd Keasbey NJ	27-46
Clary Corp 408 Junipero St San Gabriel Calif	34-35	Dynamics Research Associates Div Universal Match Corp P O Box 5841 Ferguson 21 Mo	2	General Controls Co 801 Allen Ave Glendale 1 Calif	5-4
Clevite Corp Texas Div 3732 Westimer Rd Houston 6 Texas	2-3-6-10-14-26-50	Dynaport Corp 5150 Church St Skokie Ill	1-4-9-11-38	General Devises Inc P O Box 263 Princeton NJ	4-6-10-11-13
Clevite Harris Products Inc 6545 Carnegie Ave Cleveland 8 Ohio	29	Dynatronic Inc 711 W Amelia Ave Orlando Fla	4-12-18-20-31-33-41	General Devises Inc P O Box 253 Princeton NJ	4-6-10-11-12-14-18
Clifton Precision Products Co 9014 West Chester Pike Upper Darby Pa	29	Eagle Pencil Co 703 E 13 St New York 9 NY	22	General Electric Co Computer Dept 1103 N Central Ave Phoenix Ariz	2-3-4-6-9-17-21-22-23-30-41
Coleman Eng'g Co 6040 W Jefferson Blvd Los Angeles 16 Calif	4-18	Eclipse-Pioneer Div Bendix Aviation Corp Teterboro NJ	2-3-4-6-9-20-39	General Electric Co Specialty Electronic Component Dept W Genesee St Auburn NY	6-18
Colorado Research Corp 4697 E Evans Ave Denver 22 Colo	1-2-3-4-6-9-11-21-30	Elcor Inc P O Box 354 McLean Va	6-9-23-44	General Electric Co Electronic Components Div 1 River Rd Schenectady 5 NY	49
Columbia Technical Corp 61-02 31 Ave Woodside 77 NY	13	Electric Boat Div General Dynamics Eastern Point Rd Groton Conn	3-4-21-22-31	General Electric Co Heavy Mil Electronic Equip Dept Syracuse NY	3-4-10-11-17-18
Commercial Controls Corp Sub Friden Calculating Mach 1 Leighton Ave Rochester 2 NY	22-31	Electrical Communications Inc 765 Clementina St San Francisco 8 Calif	6-17	General Instrument Corp F W Sickles Div 165 Front St Chicopee Mass	13
Compton Corp 778 Pleasant St Belmont 78 Mass	2-6-9-11-23-24-41	Electrodata Div Burroughs Corp 460 Sierra Madre Villa Pasadena Calif	27-31-33-35-37-38-46-50	General Kinetics Inc 555 23 St S Arlington 2 Va	9-11
Computer Control Co 92 Broad St Wellesley 57 Mass	6-18-17-23-25-26-30-41-42	Electro Instrument Inc Aero Ct San Diego Calif	4-18-21-23-27-32-38-47	General Railway Signal Co P O Box 600 Rochester NY	3-27
Computer Eng'g Associates Inc 350 N Halstead St Pasadena Calif	2-3-6-21-30	Electro-Mac Lab Inc 47-51 33 St Long Island City 1 NY	4	General Transistor Western Corp 6110 Venice Blvd Los Angeles 31 Calif	26-28-46
Computer Instruments Corp 92 Madison Ave Hempstead NY	4-6-39	Electro-Minatures Corp 1060 Elm Ave Ridgefield NJ	19-20-40	Geotechnical Corp 3712 Haggart Dr Dallas 9 Texas	10-14-21-22-32-46-50
Computer-Measurements Corp 5528 Vineland Ave N Hollywood Calif	9-33	Electronic Associates Inc 2-3-4-5-6-8-10- Long Branch NJ	11-12-13-16-18-20-21-22- 27-28-30-31-32-35-38-39-46-50	Gerber Scientific Instrument Co 162 State St Hartford 3 Conn	3
Computing Devices of Canada Ltd P O Box 505 Ottawa Ontario Can	2-8-9-10-11-27-38-46	Electronic Contractors Inc 2101 SE 8 Ave Portland 14 Ore	3	Giannini & Co Inc G M Datex Div 1307 S Myrtle Ave Monrovia Calif	4-11-18-20-24
Com Tronics Inc 3409 Venice Blvd Los Angeles 19 Calif	13	Electronic Control Systems 2231 Barrington Ave Los Angeles 64 Calif	4-6-9-11-12-17-18-20- 22-28-31-34-38-46-50	Goodyear Aircraft Corp 1210 Massillon Rd Akron 15 Ohio	3
Consolidated Avionics Corp 800 Shames Dr Westbury NY	19-20-21-22-23-24-31-38-40	Electronic Products Div Post Machinery 140 Elliot St Beverly Mass	12	Gordon Enterprises 5362 N Cahuenga Blvd N Hollywood Calif	37
Consolidated Controls Corp 4 Durant Ave Bethel Conn	4-18-46	Electronics Corp of America 1 Memorial Dr Cambridge 42 Mass	4-9-20	GPS Instrument Co 811 Boylston St Boston 15 Mass	2-3-21-30-39
Consolidated Electrodynamics Corp 300 N Sierra Madre Villa Pasadena Calif	4-10-11-28-46-50	Electronics Eng Co of Calif 1601 E Chestnut St Santa Ana Calif	4-6-12-17-18-20-22-23-31	Gray & Kuhn 20 Railroad Ave Roslyn Heights NY	18
Control Circuits Inc 108 Court St Middletown Conn	3-21	Essex Electronics 550 Springfield Ave Berkeley Heights NJ	13	Greer Hydraulics Inc NY Int'l Airport Jamaica 30 NY	1
Control Data Corp 501 Park Ave Minneapolis 15 Minn	4-6-8-11-17-18-19-22-23- 26-31-38-39-41-46-50	Exact Eng'g & Mfg Inc 190 E Box 66 Greenside Calif	4-6-9-20	Gries Reproducer Corp 5 2nd St New Rochelle NY	4
Control Electronics Co Inc 1925 New York Ave Huntington Sta NY	13	Fairchild Controls Corp Components Div 225 Park Ave Hicksville LI NY	6	Guitars Industries Inc 212 Durham Ave Metuchen NJ	4-6-13-17-25

Hagan Chemicals & Controls Inc 343 4 Ave Pittsburgh 30 Pa	3	Librascope Inc 808 Western Ave Glendale Calif	1-2-3-4-6-9-11- 17-18-19-22-23- 26-27-31-45-46-47-50	National Cash Register Co Main & N Sts Dayton 9 Ohio	11-17-22-26-27-31-33-46-50
Hallamore Electronics Co 8352 Brookhurst Ave Anaheim Calif	2	Link Aviation Inc Binghamton NY	3-6-8	National Tel-Tronics Corp 52 St Casimir Ave Yonkers NY	5
Haller Raymond & Brown Circleville Rd State College Pa	2-9-11-12-15-16-20- 23-24-25-30-32-39-40	Lippis Co Edwin A 1511 Colorado Ave Santa Monica Calif Los Angeles 16 Calif	7	Navigation Computer Corp 1621 Snyder Ave Phila Penna	6-8-9-23-24-41
Hall-Scott Inc 2950 N Ontario St Burbank Calif	2-3-9	Liquidometer Corp 41-03 36 St Long Island City 1 NY	2	Nemetb Inc 2223 S Carmelina Ave Los Angeles 64 Calif	35
Hanson-Gorriell-Brian 85 Hazel St Glen Cove NY	10-11	Liton Industries Components Div 5878 Rodeo Rd Los Angeles 16 Calif	13	Newton Co 55 Elm St Manchester Conn	4
Harvey-Wells Electronics Inc North St Southbridge Mass	6-8-9-17-27-41-45	Liton Industries of Calif 336 N Foothill Rd Beverly Hills Calif	3-4-6-10-11-15-16- 17-18-26-29-31-33-46	Non-Linear Systems Inc Del Mar Airport Del Mar Calif	4-31-33
Hazeltine Electronics Div/Hazeltine Corp 59-25 Little Neck Pkwy Little Neck 62 NY	3-4-12-13- 17-18-20-22-31	Loral Electronics Corp 825 Bronx River Ave New York 72 NY	32	Norden-Ketay Corp Commerce Rd Stamford Conn	2-3-4-17-18-20-33-38-39-41
Heath Co 305 Territorial Rd Benton Harbor Mich	2-3-21-30	Loyola Labs Box 45074 Airport Station Los Angeles 45 Calif	22	Norden-Ketay Corp Precision Components Div 6 Jericho Tpk Commack NY	39
Hewlett-Packard Co 275 Page Mill Rd Palo Alto Calif	11-21	Luther Mig Co 7312 Varma Ave N Hollywood Calif	39	Northam Electronics Inc 2420 N Lake Ave Altadena Calif	10-11-50
Hickok Electrical Instrument Co 10514 Dupont Ave Cleveland 8 Ohio	21-37	Lytel Eng'g & Mfg Co 1494 San Mateo Blvd SE Albuquerque New Mexico	9	North American Instruments Inc 2420 N Lake St Altadena Calif	10-14
Hoffman Electronics Corp 3761 S Hill St Los Angeles 7 Calif	6-39	Mack Electronics Div Inc 1000 3 St Plainfield NJ	1-3-4-5-9-11-12- 16-17-18-20-22-23-24-26-27- 28-33-35-38-41-46-50	Northern Radio Co 143 W 22 St New York 11 NY	14
Hoffman Semiconductor Div Hoffman Electronics Corp 930 Pitner Ave Evanston Ill	38	Mack Electronics Div Mack Trucks Inc 40 Leon St Boston 15 Mass	6-9-23-41	Norton Associates Inc P O Box 96 Garden City NY	6-7-26-46
Hogan Labs Inc 155 Perry St New York 14 NY	11	MacLeod & Hanopol 10 Roland St Charlestown 29 Mass	4	Nuclear Products-Erco Div ACF Industries Inc Riverdale Md	2-3-4-6-10-18-21-30-32
Hoover Electronics Co 112 W Timonium Rd Timonium Md	4-14-17-18-23	Magnavox Co 2131 Bueter Rd Ft Wayne Ind	4-6-11-12-17-40-41-46-48	NYT Electronics Inc 2979 N Ontario St Burbank Calif	6-18-41
Hoover Electronics Co Instrumentation Div 1122 C San Mateo SE Albuquerque NM	38	Magnavox Corp 2131 Bueter Rd Ft Wayne 4 Ind	4-11-17-24	Offner Electronics Inc 5320 N Kedzie Ave Chicago 25 Ill	38
Hughes Aircraft Corp Florence & Teale Sts Culver City Calif	6	Magnavox Corp P O Box 7186 Tulsa Okla	10-26-29-50	Oltronix Co 235 Underwood Dr Atlanta 5 Ga	3
Hughes Products Hughes Aircraft Co 5340 W 104 St Int'l Airport Sta Los Angeles 45 Calif	17	Magnetic Amplifiers Inc 632 Tinton Ave New York 55 NY	2-3-14	Otis Elevator Co Electronic Div 35 Ryerson St Brooklyn 5 NY	2-3-4-6-10-15-16-17-18-32
Hupp Instrumentation Div Erie-Pacific 12932 S Weber Way Hawthorne Calif	9	Magnetic Circuit Elements Inc 3722 Park Pl Montrose Calif	2	Packard Bell Computer Corp 11765 W Pico Blvd Los Angeles 64 Calif	4-16-17-18-20-21-40
I-L-S Instrument Corp 4625 W 160 St Cleveland 11 Ohio	3	Magnetic Instrument Co 546 Commerce St Thornwood NY	2-9-21-22-38	Packard Bell Electronics Corp 1-2-4-6-9-11-13- 12333 W Olympic Blvd 16-16-17-18-21-22-23- Los Angeles 64 Calif 24-27-28-30-31-36-38-40- 41-45-46-47-48	41-45-46-47-48
Ind Test Equip Co 55 E 11th St New York 8 NY	2-3-6-30	Magnetics Research Co 255 Grove St White Plains NY	6-9-27-41-46	Packard Instrument Co P O Box 428 La Grange Ill	38
Industrial Engravers Inc 2212 McDonald Ave Brooklyn 23 NY	32	Maico Co Inc 21 N 3rd St Minneapolis 1 Minn	46	Par Products Corp 602 Colorado Ave Santa Monica Calif	22
Industrial Nucleonics Corp 1205 Chesapeake Ave Columbus 12 Ohio	4-38	Mandrel Industrial Instruments Div Mandrel Industries Inc 5134 Glenmont Dr Houston Texas	2-10-32-50	Patent Button Co P O Box 710 Waterbury 20 Conn	38
Industrial Research Labs Div Aeronca Mfg Corp Hilltop & Fredericks Rds Baltimore Md	2-8-9	Marshall Calculators Inc 1475 Powell St Oakland 8 Calif	11-17-35-45-46-50	Patterson Moos Div Universal Winding Co 90-28 Van Wyck Expressway Jamaica 18 NY	3-4-9-23
Industrial Timer Corp 1407 McCarter Hwy Newark 4 NJ	37-50	Maurer Inc J A 37-01 31 St Long Island City 1 NY	4-9	PCA Electronics Inc 16599 Schoenborn St Sepulveda Calif	13
Instrument Development Labs Inc 67 Mechanic St Attleboro Mass	4	Maxson Corp W L 475 10 Ave New York 18 NY	3-4-17-18	Philbrick Researches Inc George A 230 Congress St Boston 10 Mass	2-3-6-10-13-14-15- 21-22-30-31-36
Intelligent Machines Research Corp 7019 Edsall Rd Research Park Alexandria Va	6	Maxson Instruments Div W L Maxson Corp 47-37 Austell Pl Long Island City 1 NY	2	Philco Corp Tioga & C Sts Philadelphia 24 Pa	17-23-31-33-35-38-50
Intercontinental Dynamics Corp 170 Coolidge Ave Englewood NJ	21-22	Melbar Inc 3000 Arlington Blvd Falls Church Va	3-17	Philco Corp Govt & Industrial Div 4700 Wissahickon Ave Philadelphia 44 Pa	4-6-11-17-20-22-31-33-38-50
Int'l Business Machines Corp 590 Madison Ave New York 23 NY	11-17-22-31-33-34- 35-37-38-44-46-48	M F Electronics Co 122 E 25 St New York 10 NY	3	Photon Instrument Co 6516 Detroit Ave Cleveland 2 Ohio	2-10
International Resistance Co 401 N Broad St Philadelphia 8 Pa	6-13	Micro Gee Products Inc 6319 W Slauson Culver City Calif	2	PIC Design Corp 477 Atlantic Ave E Rockaway Ll NY	6-7
International Telemeter Corp 200 Stoner Ave Los Angeles 23 Calif	6-27-46-48	Microwave Eng'g Labs Inc 943 Industrial Ave Palo Alto Calif	49	Potter Aeronautical Corp Route 22 Union NJ	9-18
Interstate Electronics Corp 207 E Vermont Ave Anaheim Calif	2	Mid-Century Instrumental Corp 611 Broadway New York 12 NY	2-3-6-10-21-30-39	Potter Instrument Co Sunnyside Blvd Plainville NY	9-11-12-22-23-27-28-31-33- 35-39-41-46-46-47-50
Jack Scientific Instruments Co Hill 143 Cedros St Solana Beach Calif	3	Midwestern Instruments P O Box 7186 Tulsa Okla	3-10-20-26-50	Printhead Corp 93 Mercer St New York 12 NY	35
Jackson Electronics Inc 23 Woodcrest Rd West Chester Pa	10-11-22-31	Milgo Electronic Corp 7601 NW 37 Ave Miami 47 Fla	2-3-4-5-6-9-10-11- 18-22-31-32-38-39-41-46	Radiation Counter Labs Inc 5121 W Grove St Skokie Ill	33
Jacobs Instrument Co 4718 Bethesda Ave Bethesda 14 Md	4-6-9-11-12-13- 17-18-22-23-27-31-46	Miller Mfg Co James 150 Exchange St Malden 48 Mass	13	Radiation Inc P O Box 37 Melbourne Fla	4-10-11-12-16-18-20-21-22- 23-24-31-32-33-35-38
Johnson Electronics Inc P O Box 1675 Hwy 17-92 Casselberry Fla	13	Millitest Co 88 Madison Ave Hempstead NY	21	Radiation Instrument Development Lab Inc 5737 S Halsted St Chicago 21 Ill	4-27
Jones & Wettlaufer Eng'g Corp 11780 W Pico Blvd Los Angeles 84 Calif	4-20	Minneapolis-Honeywell Heiland Div 5200 E Evans Ave Denver 22 Colo	2-3-10-48	Radio Corp of America Commercial Electronic Products	3-5-6-7-8-9- Front & Cooper Sts 10-11-16-17-20-22-23-24- Camden NJ 26-27-28-30-31-33-35-37-38-41-45- 46-50
Julie Research Labs 556 W 168 St New York 32 NY	4-18	Minn-Honeywell Regulator Co Davies Labs Div 10721 Hanna St Bellville Md	4-7-10-11-18-28	RCA Electron Tube Div 415 S 5 St Harrison NJ	24-46-49
Kahn & Co 641 Windsor St Hartford 1 Conn	2-8	Minn-Honeywell Regulator Co Aeronautical Div 2600 Ridgway Ave Minneapolis 13 Minn	2-3-4-6-14-17-18	Ramo-Woodridge Corp Electronic Instrumentation Div P O Box 8405 Denver 10 Colo	2-3-4-6-10-11-18-20- 21-23-26-28-32
Kaiser Aircraft & Electronics Corp Toledo Electronics Div P O Box 437 Toledo Ohio	3-8	Missileonics Inc P O Box 716 Melbourne Fla	3-32	Ransom Research Box 269 323 W 7 St San Pedro Calif	6-9-17-18-30-31
Kearfott Co Inc 1378 Main Ave Clifton NJ	2-3-4-9	Missouri Research Labs Inc 2109 Locust St St Louis 8 Mo	8-4	Rauland-Borg Corp 3535 W Addison St Chicago 18 Ill	3
Kelsey-Hayes Co 3600 Military Ave Detroit 32 Mich	2-3	Mitronics Inc 1290 Central Ave Hillside NJ	13	Rayco Electronic Mfg Inc 11116 Cumpston St N Hollywood Calif	6-24
Key Electric Corp 287 Post Ave Westbury NY	22-31-50	Mobil Electronics Mfg Co 1111 State Rd 67 E Anderson Ind	12	Rea Co J B 1723 Cloverfield Blvd Santa Monica Calif	4-5-6-7-8-11-15-16-17- 18-21-26-27-30-33-46
Kint 6725 Kearny Villa Rd San Diego 12 Calif	2-4-18-38	Monroe Calculating Machine Co Hanover Ave Morris Plains NJ	7-11-17-28-34-35	Reed & Reese Inc 717 N Lake Ave Pasadena 8 Calif	7-13-14
Kybernetes Corp 9 E 40 St New York 17 NY	10-11-22-31	Moore Associates Inc 2628 Spring St Redwood City Calif	12-44	Reeves Instrument Corp Roosevelt Field Garden City NY	2-3-6-10-15-21-30-39
Laboratory for Electronics Inc 75 Pitts St Boston 14 Mass	4-6-9-11-12-13-17-18-23-24- 25-26-37-38-41-44-45-46-47	Moran Instrument Corp 170 E Orange Grove Ave Pasadena 8 Calif	4-10-11-18-30	Reflecton Corp Boston Post Rd Stamford Conn	3-17
Landis & Gyr 45 W 45 St New York 88 NY	9	Muirhead Instruments Inc 677 5 Ave New York 22 NY	39		
Langvin Mfg Corp 47-37 Austell Pl Long Island City 1 NY	3-6	Nader Mfg Co 2661 S Myrtle Ave Monrovia Calif	31		
Leeds & Northrup Co 4970 Stenton Ave Philadelphia 44 Pa	10-32	National Aircraft Corp Electronics Div 3411 Tulare Ave Burbank Calif	6		
Librascope Inc Commercial Div 183 E Santa Anita Ave Burbank Calif	4-7-18-26-32-37				

Reliance Mica Co
841-39 St Brooklyn 32 NY 19

Remington Rand Div Sperry Rand Corp
315 E Ave 4-6-15-17-22-26-27-
New York 10 NY 33-35-37-46-50

Remington Rand Univac Div Sperry Rand
Corp Univac Park
St Paul 16 Minn 17-22-31-33-35-46

Republic Aviation Corp
Farmingdale LI NY 12-20

Research Development Mfg Inc
429 E Collom St Philadelphia 41 Pa 5

Rese Eng'g Inc
731 Arch St Philadelphia 6 Pa 27-46

Revere Corp of America
N Colony Rd Wallingford Conn
Rheem Mfg Co Electronics Div
7777 Industry Ave Downey Calif 2-10

Rogers & Ake Co
150 N Union St Akron Ohio 10-15-18

Royal McBee Corp
Westchester Ave Port Chester NY 17-31-50

Royal Precision Corp
Westchester Ave Port Chester NY 17

Royson Engrg Co
103 N Penn St Hatboro Pa 10

Sag Harbor Industries
Box N Sag Harbor NY 13

St Eloi Corp
P O Box 507 Newtown Br
Cincinnati 44 Ohio 3-4-23

Sanborn Co
175 Wyman St Waltham 54 Mass 10

Scantlin Electronics Inc
11624 W Pico Blvd 3-6-9-12-17-20-
Los Angeles 64 Calif 23-24-25-30-41

Schaevitz Eng'g
U S Rte 130 & Schaevitz Blvd
Camden NJ 2-32

Scientific-Atlanta Inc
2162 Piedmont Rd
N E Atlanta 9 Ga 4-11-18-32-38-47

Servo Corp of America
2020 Jericho Turnpike
New Hyde Park NY 5

Servomechanisms Inc
12500 Aviation Blvd
Hawthorne Calif 2-3-4-6-10-11-14-18-22-24-31

Servomex Controls Ltd
80 Shore Rd Port Washington NY 21

Servonics Inc
822 N Henry St 2-3-4-6-17-18-22-
Alexandria Va 23-29-30-31-32

Shallcross Mfg Co
Jackson & Pusey Aves Collingdale Pa 13

Shand & Jurs Co
2600 8th St Berkeley 10 Calif 11

Shepard Labs Inc
Broad St at Park Ave
Summit NJ 12-31-33-35-50

Sickles Div F W/GIC
165 Front St Chicopee Mass 13

Skiatron Electronics & TV Corp 2-3-4-5-6-9-10-
180 Varick St 11-12-14-15-16-17-18-20-21-22-
New York 14 NY 23-24-28-29-31-32-33-34-38-
40-41-43-49

Solartron Electronic Group Ltd
Queens Rd Thames Ditton
Surrey England 2-8-4-6-10-21-22-38

Sobhan Eng'g Inc
P O Box 1717 6-11-12-20-22-23-
Melbourne Fla 31-34-38-47-50

Southern Instruments Computer Div
Frimley Rd Camberley
Surrey England 2-3-4-10-11-21-30-38-40

Southwestern Industrial Electronics Co
2831 Post Oak Rd 2-3-4-6-10-11-13-14-15-
Houston 19 Texas 16-17-18-38-40-50

Sperry Gyroscope Co
Surface Armament Div
Great Neck NY 3-17

Sperry Gyroscope Co Microwave
Electronics Div
Great Neck NY 8

Sperry Gyroscope Co Marine Div
Roosevelt Field
Mineola NY 3-4-6-10-11-16-17-18-39-49

Sprague Electric Co
Marshall St North Adams Mass 5

Standard Register Co
828 Albany St Dayton 1 Ohio 11-22

Staplex Co
775 E Ave Brooklyn 32 NY 40

Statistical Instr Co
330 Haven Ave 2-3-4-9-12-14-15-16-
New York 38 NY 18-20-21-30-40

Stavid Eng'g Inc
17 S Route 22 Plainfield NJ 3-10

Steward Mfg Co D M
Chattanooga Tenn 26

Stewart Instrument Co
6507 Grand River Detroit 8 Mich 22

Stoelting Co C H
26 N Homan Ave Chicago 24 Ill 26

Stromberg-Carlson Div General
Dynamics Corp 1895 Hancock St
San Diego 13 Calif 31-33

Stromberg-Carlson Div General
Dynamics Corp 100 Carlson Rd
Rochester 1 NY 2-17-31-49

Sturupp Inc
60 Silver St Middletown Conn 13-25

Sylvania Electric Products Co
Electric Systems Div
100 First Ave Waltham 54 Mass 17

Syston Corp
2055 Concord Blvd
Concord Calif 9-10-11-18-35

Taber Instrument Corp
111 Goundry St N Tonawanda NY 2-14-21

Taller & Cooper
75 Front St 4-9-10-11-17-18-20-24-
Brooklyn 1 NY 33-34-35-37-38-40

Tally Register Corp
5300 14 Ave N W Seattle 7 Wash 4-17-32-41

Taurus Corp
8 Corvett St Lambertville NJ 6-37

Taylor Instruments Companies
95 Ames St Rochester 1 NY 2-5-10-11-38

Technical Oil Tool Corp
1057 N La Brea
Los Angeles 38 Calif 3-32-47-50

Techniques Inc
52 Jackson Ave Hackensack NJ 5-19-23-24

Technitrol Eng'g Co
1952 E Allegheny Ave
Philadelphia 34 Pa 4-12-17-23-42

Telectro Industries Corp
35-18 37 St 2-3-6-7-8-10-
Long Island City 1 NY 11-26-29

Telemeter Magnetics Inc
2245 Pontius Ave 6-11-17-24-27-
Los Angeles 64 Calif 33-38-41-46

Telex
1633 Eustia St St Paul 1 Minn 5-6

Telephonics Corp
Park Ave Huntington LI NY 2

Tel-Instrument Electronics Corp
728 Garden St Carlstadt NJ 13-24

Tel-Rad Electronics Corp
127-20 Rockaway Blvd
S Ozone Park 20 LI NY 13

Texas Instruments Inc
600 Lemmon Ave Dallas 9 Texas 17

Textron Corp
Box 4252 Austin 51 Texas 9

Toplight Corp
160 E 9 Ave York Pa 12

Topp Industries Inc
8907 Wilshire Blvd Beverly Hills Calif 3

Torwico Electronics Inc
1090 Morris Ave Union NJ 14

Tracerlab Inc
1601 Trapelo Rd Waltham 54 Mass 15-33-35

Transformers Inc
200 Stage B Vestal NY 6

Tullamore Electronics Lab
6055 S Ashland Ave
Chicago 36 Ill 4-9-10-11-12-18-27

Ucinite Co Div United-Carr Fastener Corp
459 Watertown St Newtonville 60 Mass 6

Ultralyne Eng'g Labs
P O Box 3308 Albuquerque New Mex 14-16

Ultronix Inc
115 E Bayshore Blvd San Mateo Calif 6

Union Switch & Signal Div
1789-1807 Braddock Ave
Swissvale P O Pittsburgh 8 Penna 38

United Control Corp
4540 Union Bay Pl Seattle 5 Wash 2

Union Thermoelectric Corp
2001 Greenleaf St Evanston Ill 4

United Electrodynamics
1200 S Marengo Ave
Pasadena Calif 2-4-6-18

United Transformer Corp
150 Varick St New York 13 NY 13-14

Universal Transistor Products Corp
88 Sylvester St Westbury LI NY 2

U S Radium Corp
Morristown NJ 6

Valar Electronics Co
13214 Crenshaw Blvd Gardena Calif 13

Vanard Electronics Co
8354 Motor Ave Los Angeles 34 Calif 13

Van Norman Industries Inc Electronics Div
186 Granite St Manchester NH 4-37

Vapor Heating Corp
90 E Jackson Blvd Chicago 4 Ill 36

Vapor Recovery Systems Co
2820 N Alameda St Compton Calif 4

Veeder-Root Inc
70 Sargeant St Hartford 2 Conn 9-33

Victor Adding Machine Co
3990 N Rockwell St
Chicago 19 Ill 11-33-34-35

Virginia Electronics Co
River Rd B & O R R
Washington 14 DC 2-5

Vitro Corp of America
261 Madison Ave New York 16 NY 3-4-17

Wachne Inc
25 B St Clair Bk Dayton 3 Ohio 23-24-50

Wagner Co H A
14707 Keswick St Van Nuys Calif 3-4

Waldorf Instrument Co Div F C Huyck & Sons
Park Ave 2-3-4-6-8-9-10-18-21-23-
Huntington Station NY 27-30-32-39-45-46

Walkirt Co
141 W Hazel St
Inglewood 3 Calif 6-9-17-23-24-31

Waltham Screw Co
77 Rumford Ave Waltham 54 Mass 5

Wang Labs Inc
37 Hurley St 1-4-11-12-17-18-20-
Cambridge 41 Mass 27-36-38-41-46-47

Warren Corp J C
21 Hanse Ave Freeport NY 28-46

Waugh Eng'g Co
7842 Burnet Ave Van Nuys Calif 18

West Coast Research Corp 2-3-8-9-16-17-22
2371 Westwood Blvd 23-25-30-31-42-44
Los Angeles 54 Calif 45-46-47-50

Western Electronic Co
717 Dexter Ave Seattle 9 Wash 3

Westgate Lab Inc
606 E High St Yellow Springs Ohio 39

Westinghouse Electric Co Div Air Arm Div
P O Box 746 Friendship Intl A P
Baltimore Md 8-4-17-18-26-46

Westinghouse Electric Corp
Box 284 Elmira NY 49

Weston Electrical Instrument Corp
514 Frelinghuysen Ave Newark 12 NJ 39

Whiteford Lab
254 Broad St Lynn 9 Mass 50

Whitewater Electronics Inc
136 Main St Whitewater Wis 13

Wiancko Engg Co
255 Halstead St Pasadena Calif 10-11-14

Zena Engg Co
6355 Kenmore Ave Los Angeles 6 Calif 2-41

20—CONNECTORS & TERMINALS

Connectors, AM 1

Connectors, anode 2

Connectors, antenna 3

Connectors, audio 4

Connectors, battery 5

Connectors, cable 6

Connectors, coaxial cable 7

Connectors, feed through 8

Connectors, ground sheath 9

Connectors, hermetically sealed 10

Connectors, high-voltage 11

Connectors, interlock 12

Connectors, jack & telephone 13

Connectors, MIL 14

Connectors, junction 15

Connectors, microphone 16

Connectors, miniature 17

Connectors, phonograph 18

Connectors, power 19

Connectors, pressurized 20

Connectors, printed circuit 21

Connectors, R-F 22

Connectors, solderless 23

Connectors, strip 24

Connectors, subminiature 25

Accurate Electronics Corp
169 S Abbe Rd S E
Elyria Ohio 3-4-5-12-18-15-18-19-23-24

Aeroflex Electronics Corp
2207 Summit Ave
Union City NJ 2-3-5-7-12-17-18

Aerovox Corp
740 Belleville Ave
New Bedford Mass 13-30-31

Aircrom Inc
139 E 1st St Roselle NJ 1-7-22

Aircraft Radio Corp
Boonton NJ 6

Airtron Inc
1108 W Elizabeth Ave
Linden NJ 1-6-7-20-22

Alden Products Co
12358 N Main St
Brooklyn 84 Mass 13-17-18-19-25

Allied Industries Inc
2500 Woodland Ave
Louisville 10 Ky 7-10-11-14-17-20-22

American Communications Corp
280 Broadway New York 17 NY 3-7-23-25

American Machine & Foundry Co
Defense Products Group
1101 N Royal St Alexandria Va 9-11-19

Amphenol Electronics Corp
1830 S 54 Ave 1-3-4-6-7-8-9-10-11-14-15-
Chicago 50 Ill 16-17-19-20-21-22-23-25

AMP Inc Capitor Div
155 Park Ave Elizabethtown Pa 11

AMP Inc
Eisenhower Blvd Harrisburg Pa 23

Andrew California Corp
941 E Maryland Ave Claremont Calif 6-7-22

Andrew Corp
363 E 75 St Chicago 19 Ill 3-6-7-22

Anton Electronic Labs
12358 Flushing Ave 2-6-7-8-10-11-14-15-
Brooklyn 87 NY 17-19-20-21-22-23-24-25

Apparatus Development Co
115 Main St Wethersfield 9 Conn 17

Ardent Acoustic Labs Ltd
Minerva Rd London N W 10 England 17-25

Arbonne Electronics Mfg Corp
155-11 South Rd Jamaica 33 NY 17

Art-Les Switch Corp
51 Water St
Watertown 72 Mass 17-21-23-24-25

Armel Electronics Inc
840 E Ave
Brooklyn 32 NY 11-14-17-19-21

A R & T Electronics Inc
1501 E 6th St N Little Rock Ark 7

Auburn Spark Plug Co 89 York St Auburn NY	1-6-14	Dittmore-Freimuth Corp 2517 E Norwich St Milwaukee 7 Wis	1-3-6-7-8-9-10-14-19	Hermetite Corp 702 Beacon St Boston 15 Mass	10
Audio Accessories 279 Broadway Amityville NY	13	Don-Lan Electronics Co 1101 Olympic Blvd Santa Monica Calif	7-10-22	Hobson Bros 4940 W Lawrence Ave Chicago 30 Ill	2-8-11-23
Audio Sears Corp Shepard Hill Rd Roxbury NY	4-13-16-17	Dow-Key Co Inc Rt 3 Hwy 59 Thief River Falls Minn	7	Holland Electronics 772 E 53 St Brooklyn NY	6
Automatic Metal Products Corp 323 Berry St Brooklyn 11 NY	4-7-10-11-14-17-19-20-21-22-25	Du-Co Ceramics Co Box 278 Saxonburg Pa	5	Ideal Industries Inc 5127 Park Ave Sycamore Ill	29
Automatic & Precision Mfg Co 252 Hawthorne Ave Yonkers NY	14-19-31	Dunlap Electronics 764 9 St Des Moines 14 Iowa	21	Industrial Hardware Mfg Co 109 Prince St New York 12 NY	2-3-5-12-21
Avia Products Co 7266 Beverly Blvd Los Angeles 36 Calif	1-20	Dyna-Empire Inc 1075 Stewart Ave Garden City L I NY	17	Industrial Products Co Div Danbury-Knudsens Box 148 Danbury Conn	7
Avnet Electronic Supply Co 35 N Moore St New York 13 NY	1-7-8-10-12-13-22-23	Dynamic Electronics Inc 73-29 Woodhaven Blvd Forest Hills NY	3-8-13-18-22	Isolantite Mfg Corp Warren Ave Stirling NJ	39-40
Burker & Williamson Inc Canal & Beaver Sta Bristol Pa	3-22	Eagle Electric Mfg Co 23-10 Bridge Plaza Long Island City 1 NY	10	Insuline Corp of America 186 Granite St Manchester NH	16
Bendix Aviation Corp 1104 Fisher Bldg Detroit 2 Mich	1-17	Eby Co H H 4700 Germantown Ave Philadelphia 44 Pa	2-5-7-13-17-25	Jan Hardware Mfg Co 75 N 11 St Brooklyn 11 NY	11
Bendix Aviation Corp Scintilla Div Delaware Ave Sidney NY	1-6-10-11-14-17-19-20	Electrical & Physical Instrument Corp 42-19 27 St Long Island City 1 NY	7	Javax P O Box 646 Redlands Calif	3-4-6-7-8-13-15-17-19-23-24
Birnbach Radio Co 145 Hudson St New York 13 NY	2-4-8-12-13-16-17-18-23	Ely Sales Co 130 Lafayette St New York 13 NY	2-3-4-5-6-14	Jerrold Electronics Corp 23 Chestnut St Philadelphia 3 Pa	7-8-22-23
Blonder-Tongue Laboratories 9-25 Alling St Newark 2 NJ	6-7-22	Elco Corp M St Below Erie Ave Phila 24 Pa	1-6-6-14-17-21-25	Jetttron Products Route 10 Hanover NJ	2-11-17
British Electronic Sales Oakland Gardens Flushing 64 NY	13	Eleo Pacific Macson Div 3260 Motor Ave Los Angeles 34 Calif	4-6-16-17-21-25	JID Electronic Corp 6101 16 Ave Brooklyn 4 NY	6
British Electronic Sales Co Inc Painton Div Oakland Gdns Flushing 64 NY	4-6-12-17-19-21-24	Electrical Specialty Co 158 11 St San Francisco 3 Calif	23	Jorlin Mfg Co Lutbrigg Ave Wallingford Conn	3-6-7-10-11-25
Ruchanan Electrical Products Corp 225 Route 22 Hillside NJ	28	Electric Boat Div General Dynamics Eastern Point Rd Groton Conn	20	Johns-Manville 22 E 40 St New York 16 NY	40
Bugle Inc H H P O Box 617 Toledo 1 Ohio	3-4-5-6-7-8-9-10-11-12-13-15-17-19-20-21-22-23-24-25	Electro Term Corp 75 Virginia Ave Providence 5 RI	23-24	Johnson Co E F 206 2 Ave S W Waseca Minn	6-8-11-14-23
Burdoy Corp Omaton Div Norwalk Conn	1-3-6-7-8-9-11-14-17-19-20-23-24-25	Electrix Terminals & Connectors Inc 990 E 67 St Cleveland 3 Ohio	20-23	Johnson & Hoffman Mfg Corp 31 E 2 St Mincola NY	25
Cable Electric Products 234 Daboll St Providence 7 RI	1-3-6-7-8-12-14-19	Electric Mechanic Inc 101 Clifton Blvd Clifton NJ	8-10	Jones Div Howard B Cinch Mfg Co 1026 S Homan Ave Chicago 24 Ill	3-4-6-16-19-24
Cal-Connector Co 7350 Vermont Ave N Hollywood Calif	1-7-14-20-22	Electro-Tec Corp 4 Romanelli Ave 5 Hackensack NJ	17-25	Jones Electronics Hiram 2318 W Olive St Burbank Calif	8
Cal-Met Electronics 5860 Spring Oak Dr Hollywood 28 Calif	21	Enfo Corp Fellowship Rd Route 73 Maple Shade NJ	3-8-11-17-25	Joy Mfg Co Electrical Products Div 1201 Macklind Ave St Louis 10 Mo	1-6-10-14-15-19
Cambridge Thermionic Corp 445 Concord Ave Cambridge 38 Mass	8-11-21-22	Entron Inc 4902 Lawrence St Bladensburg Md	7-22-23	Joy Mfg Co 333 Oliver Bldg Pittsburgh 22 Pa	1-5-6-10-11-14-15-19-20
Cannon Electric Co 3208 Humboldt St Los Angeles 31 Calif	18-19-20-21-22-23-24-25	Ercona Corp 551 Fifth Ave New York 17 NY	3-4-7-10-11-12-17-19-20-21-22-23	Kennedy Industries 6808 Vista del Mar Playa del Rey Calif	21-23
Cannon Electric Co Eastern Div Pingree & Leavitt Sta Salem Mass	8-9-10-11-12-14-15-16-17-19-20-21-22-23-24-25	Farnworth Electronics Co Div IT&T 3702 E Pontiac St Ft Wayne Ind	10-36	Kinnor Electronics Co Inc 22 E 40 St New York 16 NY	40
Carborundum Co Globar Div Hyde Park Blvd Niagara Falls NY	8-10	Fluorocarbon Products Inc Div U S Gasket Co 402 M 10 St Camden 1 NJ	8-10-13-14-17-22-25	Kliefel Bros 321 W 50 St New York 19 NY	5-6
Carter Parts Co 3401 W Madison St Skokie Ill	13	Frankel Connector Co 27 Vestry St New York 13 NY	23	Kolton Electric Mfg Co 123 N J Railroad Ave Newark 8 NJ	6-23
C B C Electronics Co 2601 N Howard St Philadelphia 33 Pa	4-16-18	Garde Mfg Co 588 Eddy St Providence 3 RI	2-4-8-10-14-17-21-22-23-25	Kost Products Co 2335 N Cicero Ave Chicago 21 Ill	5
Central Formin Co 511 Railroad St Columbiana Ohio	23	Garrett Corp Atrsearch Mfg Co Div 9851 Sepulveda Blvd Los Angeles 48 Calif	5-6-14-23	Lab-Tronics Inc 2656 N Lincoln Ave Chicago 18 Ill	4-5-6-10-13-16-17-18-25
Ceramtronics Inc 364 Highland Ave Passaic NJ	7-8-10	Ge-Lar Mfg Co 418 B Wyman St Rockford Ill	8	La Pointe Industries Inc 155 W Main St Rockville Conn	21
Cinch Mfg Corp 1026 S Homan Ave Chicago 24 Ill	2-3-5-6-7-14-16-17-18-19-21-23-24-25	General Cement Mfg Co Div Tectron Inc 400 Wyman St Rockford Ill	3-4-5-6-12-13-16-18-23-24	Lercro Electronics Inc 601 S Varney St Burbank Calif	8-17-23
Circon Components Corp Santa Barbara Municipal Airport Goleta Calif	2-3-4-5-17-18-21-22-25	General Ceramics Corp Crows Mill Rd Keasbey NJ	10-11	Line Material Industries 700 W Michigan Milwaukee Wis	23
Cleveland Metal Specialties Co 1788 E 21 St Cleveland 14 Ohio	21	General Electric Co 95 Hathaway St Providence 7 RI	6	Liquidometer Corp 41-05 34 St Long Island City 1 NY	7-25
Coaxial Connector Co 37 N E Ave Mt Vernon NY	3-6-7-8-10-11-12-13-14-15-17-20-22-23-24-25	General Radio Co 275 Massachusetts Ave Cambridge 39 Mass	4-6-7-22	Litton Industries Components Div 5873 Rndoe Rd Los Angeles 16 Calif	8-10-17-24-25
Colman Tool & Machine Co 1017 N E 3 Ave Amarillo Texas	81	General RF Fittings Inc 702 Beacon St Boston 15 Mass	3-6-7-8-10-11-12-13-14-15-17-19-20-21-22-23-25	Livingston Electronic Corp P O Box 8 Livingston NJ	10
Component Mfg Service Inc 1 Component Pk W Bridgewater Mass	3-4-5-6-7-13-16-18-22-30-31	General Scientific Equipment Co 7516 Limekiln Pike Phila 50 Pa	8	Lynch Carrier Systems Inc 695 Bryant St San Francisco 7 Calif	33
Connector Corp 6027 N Keystone Ave Chicago 30 Ill	3-5-13-18-21	Glassac Products Co 1111 E Elizabeth Ave Linden NJ	10	Malco Tool & Mfg Co 4025 W Lake St Chicago 24 Ill	3-17-21-23-25
Conn Telephone & Electric Corp 70 Britannia St Meriden Conn	13	Glass-Solder Engr's 4232 Temple City Blvd Rosemeade Calif	1-6-7-8-10-11-14-17-20-22-25	Mallory & Co Inc PR 42 S Gray St Indianapolis 6 Ind	13
Consolidated Electrodynamics Corp 300 N Sierra Madre Villa Pasadena Calif	17-23	Gorn Electric Co 845 Main St Stamford Conn	7-10-11-14-17-19-21	Mandex Mfg Co 2608 W 16 St Chicago 8 Ill	2-4-7-8-16-17-18-21-22
Consolidated Molded Products Corp 389 Cherry St Scranton 2 Penna	31-40-41	Granger Associates 966 Commercial St Palo Alto Calif	3-11	Mayfair Molded Products Corp 3700 N Rose St Schiller Park Ill	2
Constantin & Co L L Route 48 Lodi NJ	10-36	Gremer Mfg Co 7 North Ave Wakefield Mass	3-4-6-7-8-10-11-12-14-15-16-17-19-20-21-22-23-24-25	Methode Mfg Corp 7447 W Wilson Ave Chicago 31 Ill	6-17-21-25
Continental Connector Corp 34-63 84 St Woodside 77 NY	1-6-7-8-10-11-14-17-19-20-21-23-25	Gulton Industries Inc 212 Durham Ave Metuchen NJ	25	Micarta Fabricators Inc 5324 N Ravenswood Ave Chicago 40 Ill	2-5-12-21
Continental Electronics Ltd 302 Oakland St Brooklyn 22 NY	13-30-31-33	Hallett Mfg Co 5910 Bowcraft St Los Angeles Calif	6-7-8-22	Microdot Inc 220 Pasadena Ave Pasadena Calif	3-4-6-7-8-9-10-12-16-17-20-21-22-23-25
Coors Porcelain Co 600 8th St Golden Colo	10-11	Hermetic Mfg Corp 238 Lewis St Paterson NJ	18	Millen Mfg Co James 150 Exchange St Malden 48 Mass	2-3-4-8-11-15-17-22-24-25
Dage Electric Co 67 N 2 St Beech Grove Ind	3-6-7-8-10-11-14-17-20-22-24-25	Hermasool Co 1010 N Main St Elkhart Ind	10	Mitronics Inc 1290 Central Ave Hillside NJ	8
Dante Electric Mfg Co Bantam Conn	5-6-23	Hermetic Pacific Corp 4232 Temple City Blvd Rosemeade Calif	1-6-7-8-10-11-14-17-20-22-25	Molded Insulation Co 335 E Price St Philadelphia 44 Pa	18-14-19
Dejur-Amsco Corp Electronic Sales Div 45-01 Northern Blvd Long Island City 1 NY	1-6-7-8-10-11-14-17-19-20-21-23-25	Hermetic Connector Corp 481 Washington St Newark 2 NJ	1-10-20	Molding Corp of America 35 Weybosset St Providence 3 RI	8-10-11-19-20
Deutch Co 7000 Avalon Blvd Los Angeles 3 Calif	1-7-10-14-17-20-23			Morse Co Frank W 1300 Soldiers Field Rd Boston 25 Mass	1
				Moseley Co F L 409 N Fair Oaks Ave Pasadena Calif	27
				Mutual Electronic Industries Corp 85 Beechwood Ave New Rochelle NY	3-7-22

Mutual Electronics Industries Inc
80 Aleppo St Providence RI 7

National Fabricated Products
Div Hoffman Electronics Corp
2650 W Belden Ave Chicago 47 Ill 3-5-24

National Tel-Tronics Corp
82 St Casimir Ave Yonkers NY 2-3-5-7-11-12

Nichols Products Co
325 W Main St Moorestown NJ 7-16-22

Norrish Plastics Corp
107 W 18th St
New York 16 NY 3-6-8-17-25

North Electric Co
553 E Market St Gallion Ohio 6-12-25

Northern Industrial Chemical Co
7 Elkins St S Boston 27 Mass 1

Nugent Electronics Co Inc
802 E 8th St
New Albany Ind 6-7-17-20-21-25

Pacific Electric Co
3217 Exposition Pl
Los Angeles 18 Calif 6-17

Painton & Co Ltd
c/o British Electronic Sales Co Box 132
Oakland Gardens 64 NY 4-17-19-25

Panduit Co
1461 Waverly Ave Midlothian Ill 23

Petroff Corp Peter A
127 Water St New York 6 NY 3

Plasteck Inc
P O Box 551 Poteau Okla 25

Plastic Mold & Eng'g Co
157 Clifford St Providence RI 17-25

Poly-Scientific Corp
College Ave Blacksburg Va 17-25

Prodelin Inc
307 Berzen Ave Kearny NJ 6-7

Progress Electronics Co
296 Broadway 1-3-4-6-7-8-10-11-13-14-15
New York 7 NY 16-17-18-19-20-22-23-24-25

Pye Canada Ltd
82 Northline Rd
Toronto 16 Ontario Canada 1-7-8-14

Pyle-National Co
1338 N Kostner Ave
Chicago 5 Ill 6-7-12-14-19-20

Radio Essentials Inc
152 MacQuessen Pkwy
Mt Vernon NY 13-17-23-24

Raytheon Mfg Co Ceramic Sales
Foundry Ave Waltham Mass 7-8-10-11-20-25

Rodale Mfg Co
6 & Minor Sts Emmaus Pa 11-19

Roflan Co
Topsheld Mass 13-16

Russell & Stall Co Inc
125 Barclay St New York 7 NY 6

Sangamo Electric Co
1207 N 11th St Springfield Ill 24

Saxton Products Inc
1661 Boone Ave New York 60 NY 7

Scintilla Div Bendix Aviation Corp
Delaware Ave
Sidney NY 1-6-10-11-14-17-19-20-23-25

Selectro Corp
610 Fayette Ave
Mamaroneck NY 6-7-14-17-22-25

Seals Inc
165 S Fair Oaks Ave
Pasadena Calif 10-17-25

Sealtron Corp
Reading Rd at Amity Cincinnati 15 Ohio 10

Sherman Mfg Co H B
22 Barney St Battle Creek Mich 1-5

Shure Bros
222 Hartrey Ave Evanston Ill 16

Sightmaster Corp
50 Aleppo St Providence RI 7

Sittler Corp
18 N Ada St Chicago 7 Ill 8

Smith Inc Herman H
2326 Nostrand Ave
Brooklyn 10 NY 2-3-5-7-8-12-13-16-17-18

Sperry Gyroscopic Co Marine Div
Roosevelt Field Mineola NY 8

Stupakoff Div Carborundum Co
Latrobe Pa 8-10

Sylvania Electric Products Inc Parts Div
12 2nd Ave
Warren Pa 3-6-11-12-17-18-21

Taffet Radio & TV Co
27-05 Brooklyn-Queens Expressway W
Woodside 7 NY 19

Taller & Cooper
75 Front St Brooklyn 1 NY 12

Ta-Mar Inc
11571 W Jefferson Blvd
Culver City Calif 1-3-7-22

Technical Material Corp
700 Fenimore Rd
Mamaroneck NY 1-7-14-22

Technical Oil Tool Corp
1057 N La Brea
Los Angeles 89 Calif 1-3-7-14-17

Ted Mfg Corp
11010 Johnson Dr
Shawnee Kansas 1-6-7-8-9-10-14-17-20-22-25

Telegraph Construction & Maintenance Co Ltd
Mercury House Theobalds Rd
London W C 1 England 6-7-17-22

Telex
1633 Eustis St
St Paul 1 Minn 4-13-17-25

Thermo Materials Inc
4040 Campbell Ave Menlo Park Calif 10

Thomas & Betts Co
36 Butler St
Elizabeth NJ 1-3-6-7-9-11-12-14-21-23-24

Thor Ceramics Inc
225 Belleville Ave Bloomfield NJ 8-10

Time Electronic Sales
373 Broadway 1-3-4-5-6-7-8-10-11-12-13-14-15-16-17-19-20-21-22-25

Titex Inc
Hendee St
Springfield 4 Mass 1-6-7-14-17-25

Tranco Products Inc
12210 Nebraska Ave
Los Angeles 88 Calif 7-32

Tru-Connector Corp
416 Union St
Lynn Mass 3-6-7-10-11-17-20-22-25

TV Hardware Mfg Co Div Textron Inc
400 S Wyman St Rockford Ill

Ucinite Co Div United-Carr Fastener Corp
459 Watertown St
Newtonville 60 Mass 2-5-6-7-8-13-14-21

Unimatic Mfg Corp
Sherwood Lane Caldwell NJ 6

Union Electronics & Machine Corp
71 Broadway
Wakefield Mass 7-10-11-20

United Shoe Machinery Corp
140 Federal St Boston 7 Mass 21

Uniwave Inc
109 Marine St Farmingdale NY 8

US Components Inc
454 E 148 St
New York 55 NY 6-10-14-17-19-21-23-25

Vaco Products Co
317 E Ontario St Chicago 11 Ill 23

Viking Industries Inc
21343 Roscoe Blvd
Canoga Park Calif 10-11-17-20-21-25

Wade Electric Products Co
Box 271 Sturgis Mich 6-15

Waldom Electronics Inc
4625 W 53 St Chicago 32 Ill 12-18

Walco Electronics Mfg Co
100 W Green St
Rockford Ill 6-13-16-17-18-23-25

Waltham Horological Corp
395 Lynnway
Lynn Mass 6-7-13-14-16-17-24

Waltham Screw Co
77 Rumford Ave
Waltham 84 Mass 6-7-13-17-25

Walworth Co
750 3rd Ave New York 17 NY 7

Waterbury Pressed Metal
300 Chase Ave Waterbury
Westbury Electronics Inc
300 Shames Dr Westbury NY 3-7-8-22

Western Intl Co
45 Vesey St 1-2-3-4-6-7-8-10-11-13-14-15-16-17-18-19-20-22-23-25
New York 7 NY 16-17-18-19-20-22-23-25

Weymouth Instrument Co
1440 Commercial Bldg
E Weymouth 89 Mass 1-6-7

Wheaton Co T Co
Millville NJ 10

Wigima Oil Tool Co E D
3424 E Olympic Blvd
Los Angeles 83 Calif 1

Willard Storage Battery
246 E 131 St Cleveland 1 Ohio 5

Winchester Electronics Inc
Willard Rd
Norwalk Conn 1-4-7-8-10-11-12-14-17-19-20-21-22-23-25

Winder Aircraft Corp of Fla
P O Box 2397 Drane Fld
Lakeland Fla 33-34-40-41

Wisconsin Porcelain Co
121 Lincoln St Sun Prairie Wisc 23

Workman TV Inc
309 Queen Anne Rd Teaneck NJ 18

Advanced Vacuum Products Inc
430 Fairfield Ave Stamford Conn 35

Aerolite Electronics Corp
2201 Summit Ave
Union City NJ 30-31-33-39-40-41

Aircraft & Electronic Specialties
22 S Green St Brownsburg Ind 29

Aircraft Radio Corp
Boonton NJ 31-34-40-41

Airflo Instrument Co
53 Addison Rd Glastonbury Conn 31-38

A-K Mfg Co
115 S Northwest Hwy Barrington Ill 30

Aldo Products Co
12858 N Main St
Brookton 64 Mass 26-27-29-30-31-35-40-41

Allied Allegri Co
141 River Rd Nutley 10 NJ 40

American Brass Co
414 Meadow St Waterbury 88 Conn 35

American Lava Corp Subs Minn Mining & Mfg
Cherokee Blvd & Mfrs Rd
Chattanooga 5 Tenn 36-39-40-41

American Machine & Foundry Co Defense
Products Group 1101 N Royal St
Alexandria Va 28

Amphenol Electronics Corp
1830 S 54 Ave
Chicago 50 Ill 27-28-31-32-36-40

Amp Inc
Eisenhower Blvd Harrisburg Pa 30-38

Anton Electronic Labs
1226 Flushing Ave
Brooklyn 37 NY 28-29-31-40-41

Ardent Acoustics Labs Ltd
Minerva Rd London N W 10 England 31

Ark-Les Switch Corp
51 Water St
Watertown 72 Mass 29-31-35-38-40-41

Armel Electronics Inc
840 5 Ave
Brooklyn 32 NY 31-35-39-40-41

Audion Electronics Inc
216 Lyon St Paterson 4 NJ 33

Audio Accessories
279 Broadway Amityville NY 30-31-33-41

Audio Development Co
2833 13 Ave S Minneapolis Minn 33

Autel Electronics Co
P O Box 225 Linden NJ 35

Automatic Electric Co
1033 W Van Huren St Chicago 7 Ill 33-40-41

Automatic Metal Products Corp
323 Berry St Brooklyn 11 NY 28

Avnet Electronic Supply Co
36 N Moore St New York 13 NY 31-39-41

Read Chain Mfg Co
110 Mountain Grove St
Bridgeport 5 Conn 35

Bendix Aviation Corp/Scintilla Div
Delaware Ave Sidney NY 29

Bernco Engineering Corp
2320 S Tibbe Ave Indianapolis 41 Ind 30-34

Birnbach Radio Co
145 Hudson St
New York 13 NY 26-30-31-35-39-40-41

British Electronic Sales
Oakland Gardens Flushing 64 NY 30-31-33

Buggie Inc H H
P O Box 817 Toledo 1 Ohio 27-28-29-30-31

Burdry Corp Omaton Div
Norwalk Conn 28-29-37-38-41

Cable Electric Products
234 Daboll St Providence 7 RI 27-29-30-31

Cal-Connector Co
720 Varna Ave N Hollywood Calif 31

Cal-Ohm Labs Inc
Broadway & Adams St
Sterling Kansas 33-34-40

Cambridge Thermionic Corp
445 Concord Ave
Cambridge 38 Mass 29-31-35-38-39-40-41

Cannon Electric Co
3208 Humboldt St
Los Angeles 31 Calif 28-29-31

Cannon Electric Co Eastern Div
Pingree & Leavitt Sts
Salem Mass 28-29-30-31

Carborundum Co Globar Div
Hyde Park Blvd Niagara Falls NY 36-39

Carborundum Co Latrobe Plant
Refractories Div Latrobe Pa 36-39

Carter Parts Co
3401 W Madison St Skokie Ill 31-33

CBC Electronics Co
2601 N Howard St
Philadelphia 33 Pa 30

Century Electronics Co
34 Oleander St Cocom Fla 30

Ceramaseal Inc
P O Box 25 New Lebanon Center NY 36

Ceramtronics Inc
364 Highland Ave Passaic NJ 32-35-36

Cinch Mfg Corp
1026 S Homan Ave
Chicago 24 Ill 31-35-37-39-40-41

Cinema Eng'g Div Aerovox Corp
1100 Chestnut St Burbank Calif 30-33

Cleveland Metal Specialties Co
1783 E 21 St Cleveland 14 Ohio 40

Coaxial Connector Co
37 N 2 Ave
Mt Vernon NY 27-28-29-30-31-33-34-35-36-40

Coils Electronics Co
2959 49 N 2nd St Phila 83 Penna 40-41

Column Machine Co
87 State St Lynn Mass 35

20A—CONNECTORS & TERMINALS

Connectors, tube 26

Connectors, twin line 27

Connectors, waterproof 28

Connectors, wire 29

Patch cards 30

Plugs 31

TERMINALS & JACK PANELS

Headers 32

Jack panels 33

Junction boxes 34

Terminals 35

Terminal, hermetically sealed 36

Terminals, snap 37

Terminals, solderless 38

Terminals, standoff 39

Terminal boards 40

Terminal strips 41

Accurate Electronics Corp
169 B Abbe Rd
S E Elyria Ohio 81-83-34-35-38-39-40-41

Conn Telephone & Electric Corp 70 Britannia St Meriden Conn	33	General Electric Co Apparatus Sls Div 1 River Rd Schenectady 5 NY	40	Lestershire Spool Div National Vulcanized Fibre Co 140 Baldwin St Johnson City NY	35-40-41
Consolidated Productions Inc Broward Int'l Airport Ft Lauderdale Fla	34	General Electric Co 95 Hathaway St Providence 7 RI	31-35	Liquidometer Corp 41-03 36 St Long Island City 1 NY	28
Continental Connector Corp 34-63 66 St Woodside 77 NY	31-35-37-38-39-40-41	General Electric Co General Machine & Instrument Co Clinton Rd Caldwell NJ	40-41	Litton Industries of Calif 336 N Foothill Rd Beverly Hills Calif	35-40
Crown Engineering 3821 Commercial NE Albuquerque NM	34	General Metal Products Co 1010 Centre St Easton Pa	34-40	Litton Industries Components Div 5873 Rodeo Rd Los Angeles 16 Calif	35-36-39-40-41
Curtis Development & Mfg Co 3218 N 38 St Milwaukee 16 Wis	40-41	General Radio Co 275 Massachusetts Ave Cambridge 39 Mass	30-31	Livingston Electronic Corp P O Box 8 Livingston NJ	26
Dage Electric Co 67 N 2 St Beech Grove Ind	28	General Railway Signal Co P O Box 600 Rochester NY	40	Long Inc Thomas J 215 Stonehenge Lane Carle Place LI NY	40-41
Dale Heisen Co 2928 Nebraska Ave Santa Monica Calif	40	General RF Fittines Inc 702 Beacon St Boston 15 Mass	27-28-29-31	Lorentzen Inc H K 391 W Broadway New York 12 NY	35-40
Dalmore Corp 47 Prospect St Woburn Mass	35-40	Glass & Bro Harry H 10 Van Courtlandt Ave E New York 68 NY	41	Malco Tool & Mfg Co 4025 W Lake St Chicago 24 Ill	29-35-38
Dante Electric Mfg Co Hantam Conn	20-35-38	Glass-Solder Eng'g 1282 Temple City Blvd Rosemeade Calif	32-35-36-39-40	Mallory & Co Inc P R 42 S Gray St Indianapolis 6 Ind	31-33
Daven Co Route 10 Livingston NJ	33-34-40-41	Globe Electrical Mfg Co 1729 W 134 St Gardena Calif	40	Mandex Mfg Co 2606 W 16 St Chicago 8 Ill	26-35-41
Decatur Electronic Industries Corp 203 Orinoco Dr Brightwaters LI NY	30-40	Goe Eng'g Co 219 S Mednik Ave Los Angeles 22 Calif	35-39	Marshall Associates Inc John Box 2463 Bridgeport 8 Conn	37
Dejur-Amaco Corp Electronic Sales Div 45-01 Northern Blvd Long Island City 1 NY	32-38-39	Grayhill Inc 561 Hillarove Ave La Grange Ill	27-40	Maryland Lava Co 205 Belair Md	41
Deutsch Co 7000 Avalon Blvd Los Angeles 3 Calif	31	Gray Pantograph Engraving 200 Washington St Hoboken NJ	40-41	Masterite Industries Inc 835 W Olive St Inglewood Calif	35
Donart Mfg Corp 249 Huron St Brooklyn 62 NY	35-38	Gremar Mfg Co 7 North Ave Wakefield Mass	26-23	Mayfair Molded Products Corp 3700 N Rose St Schiller Park Ill	40
Dynamic Electronics Inc 73-24 Woodhaven Blvd Forest Hills NY	30-31	Hallmore Electronics Co 5352 Brookhurst Ave Anaheim Calif	34	Metal Specialty Products Corp 27-01 Brooklyn Queens Expressway W Woodside 77 NY	40-41
Eagle Electric Mfg Co 23-10 Bridge Plaza Long Island City 1 NY	29-31	Hallett Mfg Co 5910 Bowcraft St Los Angeles Calif	28-29	Methode Mfg Corp 7447 W Wilson Ave Chicago 31 Ill	29
Eby Co H H 4700 Germantown Ave Philadelphia 44 Pa	35-40-41	Harwood Electronics Co 466 W Superior St Chicago 10 Ill	34	Mica Insulator Co 797 Broadway Schenectady 1 NY	40-41
Ely Sales Co 130 Lafayette St New York 13 NY	30-33-40-41	Heldor Mfg Corp 238 Lewis St Paterson NJ	35-36-38-39	Micarta Fabricators Inc 5324 N Ravenswood Ave Chicago 40 Ill	31-35-40-41
Fitel-McCullough Inc 798 San Mateo Ave San Bruno Calif	26	Helipot Corp Newport Beach Calif	40	Michigan Electronics Inc 84 N Rockwell St Chicago 22 Ill	30
Elco Corp M St Below Erie Ave Phila 24 Pa	28	Hermanal Co 1010 N Main St Elkhart Ind	36	Microdot Inc 220 Pasadena Ave S Pasadena Calif	27-31-35-38
Elco Pacific Macson Div 3260 Motor Ave Los Angeles 34 Calif	28	Hermetic Connector Corp 481 Washington St Newark 2 NJ	36-39	Mid-West Conveyor Co Metal Products Div 7 & Sunshine Rd Kansas City 15 Kan	33-34
Elico Tool & Screw Corp 1800 Broadway Rockford Ill	35	Hermetic Pacific Corp 4232 Temple City Blvd Rosemeade Calif	28-31-32-35-36-39-40	Milten Mfg Co James 150 Exchange St Malden 48 Mass	27-35-39-40-41
Electrical Industries 691 Central Ave Murray Hill NJ	36	Hobart Bros 4940 W Lawrence Ave Chicago 30 Ill	26-40	Minnesota Mining & Mfg Co 900 Bush Ave St Paul 6 Minn	29
Electrical Specialty Co 158 11 St San Francisco 3 Calif	29-38	Holland Electronics 772 E 53 St Brooklyn NY	30-33-34-40	Mitronics Inc 1290 Central Ave Hillside NJ	35
Electric Hoat Div General Dynamics Eastern Point Rd Groton Conn	28	Hollingsworth Co Phoenixville Pa	38	Molded Insulation Co 335 E Price St Philadelphia 44 Pa	31-40
Electric Terminals Corp 75 Virginia Ave Providence 5 RI	29-38-41	Holub Industries Inc 413 De Kalb Ave Sycamore Ill	29	Molding Corp of American 58 Weybosset St Providence 3 RI	35-36-39-40-41
Electrix Terminals & Connectors Inc 990 E 67 St Cleveland 3 Ohio	38	Howard Crystal Holders Inc 2600 Grand Ave Kansas City 8 Mo	40-41	Moore Co Howard J 266 Williams St New York NY	40
Electronic Associates Inc Long Branch NJ	30-31	Hubbel Inc Harvey State St & Rostwick Ave Bridgeport 2 Conn	28-31-35-38-41	Morey Corp 224 N Major Ave Chicago 39 Ill	40
Elm Labs 10 Washington Ave Hastings-on-Hudson NY	40-41	IE Mfg 323 N Hoyne Ave Chicago 12 Ill	39-40-41	Morse Co Frank W 1300 Soldiers Field Rd Boston 35 Mass	31
Elice Metal Products Co 775 38 St Brooklyn 32 NY	33-34-40-41	Industrial Engravers Inc 2212 McDonald Ave Brooklyn 23 NY	41	Mutual Electronics Industries Inc 50 Aleppo St Providence RI	40-41
Emerson Plastics Corp Seabury Ave & Butler Pl Bronx 61 NY	40-41	Industrial Hardware Mfg Co 109 Prince St New York 12 NY	40-41	Myalex Corp of America 125 Clifton Blvd Clifton NJ	39
Empire Electronics Co 166 River St Paterson 1 NJ	30	Insuline Corp of America 186 Granite St Manchester NH	30-31-33-40	National Fabricated Products Div Hoffman Electronics Corp 2650 W Belden Ave Chicago 47 Ill	26-35-39-40-41
Enfo Corp Fellowship Rd Route 73 Maple Shade NJ	35-36-39-40-41	International Resistance Co 401 N Broad St Philadelphia 8 Pa	36	National Tel-Tronics Corp 52 St Casimir Ave Yonkers NY	30-31-33-35-37-39-40-41
EPM Corp 675 Harbey St Brooklyn NY	30-31-35-36-39-40	Jacksonville Metals Plastics Co 575 Dara St Jacksonville Fla	33-34-41	Nems-Clarke Inc 919 Jesup-Blair Dr Silver Spring Md	33
Equipment and Service Co 7118 Envoy Ct Dallas 35 Texas	28	Janco Corp 3111 Winona Ave Burbank Calif	34	Neosil Products Div Rubber Associates 745 5 Ave New York 22 NY	28
Erca Tool Die & Stamping Co 10 Ash St Brooklyn 22 NY	35-37-38	Javey P O Box 646 Redlands Calif	27-29-31-34-35-38	Networks Electronic Corp 14806 Oxnard St Van Nuys Calif	32-36
Ercona Corp 551 Fifth Ave New York 17 NY	27-28-34-41	Jettison Products Route 10 Hanover NJ	26	Newcomb Spring Corp 177 E Hawthorne Ave Valley Stream NY	29-37
Erie Resistor Corp 644 W 12 St Erie 6 Pa	35-41	Joclin Mfg Co Lufberry Ave Wallingford Conn	35-36-39	Newcomb Spring of Conn 510 Queen St Southington Conn	29
E-Z-Hook Test Products 1506 Woodburn Ave Covington Ky	29	Johnson Co E F 206 2 Ave S W Waseca Minn	31	Norrich Plastics Corp 107 W 18th St New York NY	35-39-40
Farnsworth Electronic Co Pacific Div 815 S San Antonio Rd Palo Alto Calif	36-39	Jones Electronics Hiram 2813 W Olive St Burbank Calif	35-36-39-40-41	Northern Industrial Chemical Co 7 Elkins St S Boston 27 Mass	40
Faster Div Ill Tool Works 195 Algonquin Rd Des Plaines Ill	35	Jones Div Howard B Cinch Mfg Co 1026 S Homan Ave Chicago 24 Ill	31-40-41	Nugent Electronics Co Inc 802 E 8th St New Albany Ind	28
Federal Screw Products Inc 3917 N Kedzie Ave Chicago 13 Ill	35-38-40-41	Joy Mfg Co Electrical Products Div 1201 Macklind Ave St Louis 16 Mo	28-31	Olympic Plastics Co 3471 S Lacieneaga Blvd Los Angeles 16 Calif	40-41
Fidelity Amplifier Co 1633 N Halsted St Chicago 14 Ill	40	Joy Mfg Co 333 Oliver Bldg Pittsburgh 22 Pa	28-31	Omega Industries Inc 36-39 171 St Flushing NY	35
Fisher & Crane 109 N Camac St Phila 7 Pa	35-40-41	Keystone Electronics Corp 40 Bleeker St New York 12 NY	31-33-35-38-40	Pape-Fogwell Corp 1311 Riverside Dr Los Angeles 31 Calif	31
Fluorocarbon Products Inc Div U S Gasket Co 602 N 10 St Camden 1 NJ	28-32-33-35-36-37-38-40-41	Kliegl Bros 321 W 50 St New York 19 NY	39	Painton & Co Ltd c/o British Electronic Sales Co Box 132 Oakland Gardens 64 NY	31
Frenchtown Porcelain Co Frenchtown NJ	35-36-39	Kolton Electric Mfg Co 123 N J Railroad Ave Newark 8 NJ	38	Panduit Co 14461 Waverly Ave Midlothian Ill	38
Garde Mfg Co 588 Eddy St Providence 3 RI	28-29-31-32-35-36-39-40-41	Kulka Electric Mfg Co 633 S Fulton Ave Mt Vernon NY	36-37-40-41		
General Cable Corp 420 Lexington Ave New York 17 NY	29	Lab-Tronics Inc 3658 N Lincoln Ave Chicago 13 Ill	28-30-31-35-36		
General Cement Mfg Co Div Teatron Inc 400 Wyman St Rockford Ill	38-40	La Moree Co D 2433 Birkdale St Los Angeles 31 Calif	41		
General Ceramics Corp Crows Mill Rd Keasbey NJ	35-36-39	Lerco Electronics Inc 501 S Varney St Burbank Calif	35-37-38-39-40-41		
General Components Inc 225 E 144 St Bronx 51 NY	29-35-38-39-40-41				

Patton-MacGuyer Co
17 Virginia Ave Providence 5 RI 35

Penn Fibre & Specialty Co
2020 E Westmoreland St
Philadelphia 34 Pa 40

Permonite Mfg Co
444 Lake Shore Dr
Chicago 11 Ill 31-36-40-41

Pix Mfg Co
75 Hudson St Newark 8 NJ 29-32-35

Plastic-Craft Products Corp
1 Station Plaza W Nyack NY 40-41

Plastic Mold & Eng'g Co
157 Clifford St Providence RI 11

Pomona Electronics Co
1126 W 8 Ave Pomona Calif 30

Precision Metal Products Co
41 Elm St Stoneham Mass 35-39-40-41

Progress Electronics Co
296 Broadway
New York 7 NY 26-27-29-30-31

Pye Canada Ltd
82 Northline Rd
Toronto 16 Ontario Canada 31

Pyle-National Co
1334 N Kostner Ave Chicago 51 Ill 28-31

Radio Corp of America
Commercial Electronic Products
Front & Cooper Sts Camden NJ 33-34-35

Radio Essentials Inc
152 Macquesten Pkwy
Mt Vernon NY 31-35-36-37-38-39-40-41

Raypar Inc
7800 W Addison St Chicago 34 Ill 26

Raytheon Mfg Co Ceramic Sales
Foundry Ave Waltham Mass 28-35-36-39

Raytheon Mfg Co Microwave & Power
Tube Operations
Foundry Ave Waltham Mass 35-36

Remler Co
2101 Bryant St San Francisco Calif 28

Rodale Mfg Co
6 & Minor Sts Emmaus Pa 28-31

Romar Plastics Inc
1311 E Main St St Charles Ill 40

Rubbercraft Corp of Calif
1800 W 220 St Torrance Calif 35

Russell & Stoll Co Inc
125 Barclay St New York 7 NY 29

Sangamo Electric Co
1207 N 11th St Springfield Ill 41

Schaffer Air Industries
290 N Henry St Brooklyn 22 NY 33-34

Scintilla Div Bendix Aviation Corp
Delaware Ave Sidney NY 28-29

Sealstro Corp
610 Fayette Ave Mamaroneck NY 33-35-39

Seals Inc
165 S Fair Oaks Ave Pasadena Calif 32-36

Shakeproof Div Illinois Tool Works
St Charles Rd Elgin Ill 36

Shaw Insulator Co
160 Coit St Irvington NJ 40

Shelco Mfg Corp
323 Bergen Blvd Fairview NJ 85

Sightmaster Corp
50 Aleppo St Providence RI 40-41

Silicone Insulation Inc
Seabury Ave & Butler Pl Bronx 61 NY 40-41

Silicone Seals Inc
3125 Milwaukee Ave
Chicago 18 Ill 32-36-39-40

Sinclair Mfg Co
S Worcester St Chertley Mass 89

Slip Ring Co of America
3612 W Jefferson Blvd
Los Angeles 16 Calif 40

Smith Inc Herman H
2326 Nostrand Ave
Brooklyn 10 NY 30-31-40-41

Spaulding Fibre Co
310 Wheeler St Tonawanda NY 40

Sphere Co
25 Amity St Little Falls NJ 36

Spirling Products Co
Henrietta St & Duffy Ave
Hicksville LI NY 27

Spivey Inc James E
4908 Hampden Lane
Washington 14 DC 33-34

Standard Electric Time Co
89 Logan St Springfield 2 Mass 30-31-33

Standard Electronics Div Radio Eng'g Labs
30 & Borden Sts Long Island City NY 33

Star Expansion Products
719 A Second Ave New York NY 31

Stumm Co
19 New Park Ave Hartford 6 Conn 40-41

Steel Co Herman D
Lafayette Bldg Philadelphia 6 Pa 35

Stone City Machine & Tool Co
1206 7 St Bedford Ind 35

Strat-O-Seal Mfg Co
3039 W Fullerton Ave
Chicago 47 Ill 36-40-41

Stromberg-Carlson Div General
Dynamics Corp 100 Carlson Rd
Rochester 3 NY 31-41

Stupakoff Div Carborundum Co
Latrobe Pa 35-36-39

Supertex Electronics Corp
58 Maribicdale Rd Tuckahoe NY 31

Swedlow Plastics Co
69% Bandini Blvd
Los Angeles 22 Calif 40-41

Switchcraft Inc
1328-30 N Halstead St Chicago 30 Ill 33

Sylvania Electric Products Inc Parts Div
12 2nd Ave Warren Pa 31

Taffet Radio & TV Co
27-05 Brooklyn-Queens Expressway W
Woodside 77 NY 31-40-41

Taurus Corp
8 Corvelli St Lambertville NJ 35-39

Technical Material Corp
100 Fenimore Rd Mamaroneck NY 30-31-33

Techniques Inc
62 Jackson Ave Hackensack NJ 40-41

Telectro Industries Corp
35-18 37 St Long Island City 1 NY 30

Telematic Industries Inc
16 Howard Ave Brooklyn 7 NY 30

Telephonics Corp
Park Ave Huntington LI NY 33

Telex
1633 Eustis St St Paul 1 Minn 30-31

Telker Inc N Murray
Ridge Rd Elyria Ohio 40

Telkor Inc
Box 186 Elyria Ohio 40-41

Thale Eng'g Corp
2104 E Villa St Pasadena Calif 34

Thomas & Betts Co
36 Butler St Elizabeth NJ 35-38-41

Thompson-Bremer & Co Sub
American Machine & Fdry
228 N La Salle St Chicago 1 Ill 35

Tbor Ceramics Inc
225 Belleville Ave
Bloomfield NJ 32-35-36-39-40-41

Time Electronic Sales
373 Broadway New York 13 NY 28-29-31

Titeflex Inc
Hendee St Springfield 4 Mass 28-29

Torwico Electronics Inc
1090 Morrie Ave Union NJ 36-39

Triad Transformer Corp
4055 Redwood Ave Venice Calif 36

Tri-Dex Electronics
P O Box 1207 Lindsay Calif 40-41

Trimm Inc
400 W Lake St Libertyville Ill 31-33

Trimount Plastic Co
71 Dudley St Arlington 74 Mass 40-41

Tri-Point Plastics Inc
175 J U Willets Rd
Albertson LI NY 39-40

Tronex Inc
Wheaton Ave Millvale NJ 86

Tru-Connector Corp
416 Union St Lynn Mass 28-29

Tubular Rivet & Stud Co
Weston Ave Wollaston 70 Mass 35

Ucinite Co Div United-Carr Fastener Corp
459 Watertown St Newtonville 60 Mass 31

United Shoe Machinery Corp
140 Federal St Boston 7 Mass 38

Universal Circuit Controls Corp
3610 Oakton St Skokie Ill 33

U S Instrument Corp
P O Box 1191 Charlottesville Va 33-34-41

Vaco Products Co
317 E Ontario St Chicago 11 Ill 88

Viking Industries Inc
21343 Roscoe Blvd Canoga Park Calif 28

Virginia Electronics Co
River Rd & B & O R R
Washington 18 DC 30-33-34-41

Vitroreol Corp
P O Box 6048 709 E 106 St
Indianapolis 20 Ind 32-35-36-39-40-41

Wade Electric Products Co
Box 271 Sturgis Mich 29-35-37-38-40-41

Waldom Electronics Inc
4625 W 53 St Chicago 32 Ill 35-38-41

Walisco Electronics Mfg Co
100 W Green St Rockford Ill 30-31-41

Waltham Horological Corp
395 Lynnway Lynn Mass 31-33

Waltham Screw Co
77 Rumpf Ave Waltham 54 Mass 31-35-39

Warren Plastics Corp
Warren Pa 32

Waterbury Cos Inc
835 S Main St P O Box 1082
Waterbury Conn 35

Waterbury Pressed Steel
300 Chase Ave Waterbury 14 Conn 38

Western Felt Works
4029 Orden Ave Chicago Ill 40

Western Intl Co
45 Vesey St New York 7 NY 27-28-29-31

Westline Products Div Western Lithograph Co
600 E E St Los Angeles 54 Calif 41

Wheaton Co T C
Milville NJ 35-36-39-41

Whitso Inc
9330 Byron St Sciller Park Ill 39

Wiggins Oil Tool Co E H
3424 E Olympic Blvd
Los Angeles 23 Calif 31

Willard Storage Battery
246 E 131 St Cleveland 1 Ohio 38

Winchester Electronics Inc
Willard Rd
Norwalk Conn 28-31-35-36-37-38-39

Winslow Co
701 Lehigh Ave Union NJ 34

Wiaconsin Porcelain Co
121 Lincoln St Sun Prairie Wis 29

21—CONTROL EQUIPMENT, COMMUNICATIONS

Controls, audio recording 1
 Controls, automatic tuning 2
 Controls, broadcast input 3
 Controls, frequency 4
 Controls, illumination 5
 Controls, motor & generator 6
 Controls, photoelectric 7
 Controls, photographic 8
 Controls, power level 9
 Controls, remote radio 10
 Controls, remote TV 11
 Controls, tower lighting 12
 Controls, ventilation 13
 Tuners, automatic 14

Adler Electronics Inc
1 Lefevre Lane New Rochelle NY 4-6-11

Avroflex Labs
4-06 Skillman Ave
Long Island City 1 NY 8-11

Aerona Mfg Corp
Middletown Ohio 4-7

Aerotron Associates
Box 419 Concord NH 8-9

Airborne Accessories Corp
1414 Chestnut Ave Hillside 5 NJ 6

Airmec Ltd
High Wycombe Buckinghamshire England 7

Allen-Bradley Co
136 W Greenfield Ave Milwaukee 4 Wisc 6

Alliance Mfg Co
Lake Park Blvd Alliance Ohio 11

Altec Lansing Corp
1515 S Manchester Ave Anaheim Calif 1

American Rectifier Corp
95 Lafayette St New York 13 NY 6

Arrow-Hart & Hegeman Electric Co
103 Hawthorne St Hartford 6 Conn 6

Automatic Switch Co
Hanover Rd Florham Park NJ 6-12

Autotron Inc
3629 N Vermilion St Danville Ill 5-7-12

Barton Electronics Inc
1600 Farmington Ave
W Hartford 7 Conn 7

Bendix Aviation Corp Red Bank Div
Rt 35 Eatontown NJ 4-6

Berno Engineering Corp
2320 S Tibbs Ave Indianapolis 41 Ind 8

Berndt-Hach Inc Auricon Div
6900 Romaine Ave Hollywood 38 Calif 8

Bliss Electronic Corp
Box 386 Sussex NJ 3-10

Rogue Electric Mfg Co
52 Iowa Ave Paterson 3 NJ 4-6-9

Briggs Associates
10 Dekalb St Norristown Pa 10

Bristol Co
P O Box 1790 El Waterbury Conn 9-13

British Electronic Sales Co Inc Painton Div
Oakland Gdn Flushing 64 NY 1-3

Canadian Aviation Electronics Ltd
6214 Cote de Liesse Rd
St Laurent Quebec Canada 10

Capitol Transcription Service
1120-A Conn Ave N W Washington 6 DC 1

CG Electronics Corp
1500 Central St Albuquerque New Mex 10

Cinema Eng'g Div Aerovox Corp
1100 Chestnut St Burbank Calif 1

Clark Controller Co
1146 E 152 St Cleveland 10 Ohio 6

Collins Radio Co
855 35 St N E Cedar Rapids Iowa 3-4-14

Comac Instrument Co
56-11 99 St Forest Hills 74 NY 10

Consolidated Avionics Corp
800 Shames Dr Westbury NY 4

Consolidated Productions Inc
Broward Int'l Airport Ft Lauderdale Fla 10

Continental Electronics Ltd
302 Oakland St Brooklyn 22 NY 10

Continental Electronics Mfg Co
4212 S Buckner Blvd Dallas 27 Texas 10

Control Corp
718 Central Ave
N E Minneapolis 14 Minn 4

Controlled Atmosphere Enclosures Corp
230-11 141 Ave
Springfield Gardens LI NY 13

Cook Electric Co
2700 Southport Ave Chicago 14 Ill 4

Crown Engineering
3821 Commercial N E Albuquerque NM 7

Dalmo Victor Co Div Textron Inc
1615 Industrial Way Belmont Calif 2

Datascan Inc
48 Notch Rd Little Falls NJ 7

Draven Co
Route 10 Livingston NJ 1-3-9

Davenport Mfg Co
1713 N Ashland Ave Chicago 22 Ill 7

Dayton Aviation Radio & Equipment Corp
P O Box 258 Troy Ohio 10

Deitz Co S J
9 E Wesley St B Hackensack NJ 7

Detect-O-Ray Co 2628 N Halsted St Chicago 14 Ill	7	Leland Electric Co Aircraft Products Plant 740 E National Rd Vandalia Ohio	6	Transline Electronic Communication Co 95 Summit St Newark 3 NJ	7-10
Diets Co Henry G 12-16 Astoria Blvd Long Island City 2 NY	13	Lindly & Co 248 Herricks Rd Mineola NY	7	Tri-Tronics Co 2607 St Charles Rd Bellwood Ill	7
Dunlap Electronics 764 9 St Des Moines 14 Iowa	1-3-10	Lumenite Electronic Co 407 E Dearborn St Chicago 5 Ill	5-7-10	Trott Electronics Inc 412 Smith St Rochester 6 NY	7
Dynamic Research Associates Div Universal Match Corp P-O Box 5841 Ferguson 21 Mo	4	McCoy Electronics Co Chestnut & Watts Sts St Holly Springs Pa	4	TV Specialty Co 350 W 31 St New York 1 NY	8
Dynapor Corp 5150 Church St Skokie Ill	4	Madigan Corp 526 Mineola Ave Carle Place NY	10-11	United Electric Controls Co 85 School St Watertown 72 Mass	8
Eacor Inc Div Jacobs Co 517 W Walnut St Orelaby Ill	6	Magnasyn Mfg Co 5546 Satsuma Ave N Hollywood Calif	1	U S Controls Inc 161 Grand St New York 13 NY	5-6-7
Electrical Communications Inc 765 Clementina St San Francisco 3 Calif	6-10-12	Magnecord Div Midwestern Instruments Inc P O Box 7186 Tulsa Okla	1	Varo Mfg Co 2201 Walnut St Garland Texas	1-2-4-6-9-10
Electric Regulator Corp Pearl St Norwalk Conn	4-6-8	Mallory & Co Inc P R 42 S Gray St Indianapolis 6 Ind	1-6-8-13-14	Vectrol Eng'g Inc P O Box 1089 Stamford Conn	4-7
Electrola Inc 7517 N Clark St Chicago 26 Ill	10	Manson Laboratories Inc 207 Greenwich Ave Stamford Conn	4	Virginia Electronics Co River Rd & B & O RR Washington 16 DC	10
Electronic Communications Inc 1501 72 St St Petersburg Fla	2-4-10-14	Maxson Instruments Div W L Maxson Corp 47-37 Austell Pl Long Island City 1 NY	4	Wacline Inc 35 S St Clair St Dayton 2 Ohio	6
Electronics Corp of America 1 Memorial Dr Cambridge 42 Mass	5-7	Measurement Eng'g Ltd 232 John St Arnprior Ontario Can	5-8	Wang Labs Inc 37 Hurley St Cambridge 41 Mass	4
Electronics Design Co 400 E Carnell St P O Box 401 Enid Okla	10	Michigan Electronics Inc 854 N Rockwell St Chicago 22 Ill	5-10	Warren Mfg Co Newtown Rd Littleton Mass	4
Electro Physics Co 297 Broadway New York 7 NY	7-8	Moline Mfg Co 1500 De Koven Ave Racine Wis	13	Wells-Gardner & Co 2701 N Kildare Ave Chicago 39 Ill	10
Elm Labs 10 Washington Ave Hastings-on-Hudson NY	10-11	Moore Associates Inc 2628 Spring St Redwood City Calif	10	Westinghouse Electric Corp P O Box 868 Pittsburgh 30 Pa	6
Engineered Magnetics Div Gulton Industries Inc 13030 Cerise Ave Hawthorne Calif	4	Multi-Products Co 21470 Coolidge Hwy Oak Park 37 Mich	10	Weston Electrical Instrument Corp 614 Frelinghuysen Ave Newark 12 NJ	5
Enrico Radio Labs Inc 537 Steuart Ave Garden City NY	10	National Aircraft Controls Ltd 3411 Tulare Ave Burbank Calif	6	White Dental Mfg Co S S Industrial Div 10 E 40 St New York 16 NY	10-11
Env Instrument Co 96 S Washington Ave Bergenfield NJ	7	Nevada Air Products Co P O Box 2472 Reno Nev	14	Winder Aircraft Corp of Fla P O Box 2397 Drane Fld Lakeland Fla	5
Farmer Electric Products Co 2300 Washington St Newton Lower Falls 62 Mass	7	Norrman Laboratories Ernst Williams Bay Wis	4	Worner Electronics Devices Rankin Ill	5-7-12
Fecker Inc J W 6592 Hamilton Ave Pittsburgh 6 Pa	8	O'Brien Electric Corp 5514 Santa Monica Blvd Hollywood 38 Calif	3	Young Spring & Wire Co Ganset Div 801 S Main St Burbank Calif	11
Fisher Co Inc P O Box 426 Newburgh NY	8	Ohio Elevator Co Electronic Div 35 Ryerson St Brooklyn 5 NY	8		
Flight Research Inc P O Box 1-F Richmond 1 Va	7-8	Par Products Corp 602 Colorado Ave Santa Monica Calif	8		
Frequency Standards Inc P O Box 504 Asbury Park NJ	4	Peer Inc 1200 Milton St Benton Harbor Mich	10		
Gates Radio Co 123 Hampshire St Quincy Ill	1	Perma-Power Co 3102 N Elston Ave Chicago 18 Ill	10		
General Control Co 1200 Soldiers Field Rd Boston 34 Mass	10-11	Philman Labs Inc 90 Hopper St Westbury LI NY	4		
General Controls Co 801 Allen Ave Glendale 1 Calif	6	Philo Corp Tioga & C Sts Philadelphia 24 Pa	5-11		
General Electric Co Dist Assemblies Dept 41 Woodford Ave Plainville Conn	6-9	Philo Corp Govt & Industrial Div 4700 Wissahickon Ave Philadelphia 44 Pa	11-12		
General Electric Co Industry Control Dept P O Box 2488 Roanoke Va	6	Phoenix Precision Instrument Co 3803 N 5 St Philadelphia 40 Pa	7-8		
General Electric Co Specialty Control Dept P O Box 812 Waynesboro Va	6-7	Photom Research Products 421 N Altadena Dr Pasadena Calif	8		
General Precision Lab Inc 63 Hedford Rd Pleasantville NY	11	Photographic Products Inc 1000 N Olive St Anaheim Calif	8		
General Radio Co 275 Massachusetts Ave Cambridge 39 Mass	5	PSC Applied Research Ltd 1500 O'Connor Dr Toronto 16 Canada	15		
Gerat & Co Paul E 4858 N Clark St Chicago 40 Ill	6	Pye Canada Ltd 82 Northline Rd Toronto 16 Ontario Canada	11		
Globe Industries Inc 1784 Stanley Ave Dayton 4 Ohio	8	Pye Telecommunications Ltd Newmarket Rd Cambridge England	10		
Gordon Enterprises 5362 N Cahuanga Blvd N Hollywood Calif	1-8	Radio Corp of America Commercial Electronic Products Front & Cooper Sts Camden NJ	6-11		
Gray Pantograph Engraving 200 Washington St Hoboken NJ	5	Ransom Research Box 269 323 W 7 St San Pedro Calif	7		
Green Rectifier Co 1-10 30 St Fairlawn NJ	6	Reliance Automatic Lighting Co 1921 Mead St Racine 3 Wis	12		
Gyro Electronics Co 325 Canal St New York 13 NY	10	Rich Electronics Inc 212 N W R Ave Miami 36 Fla	14		
Hallamore Electronics Co 8352 Brookhurst Ave Anaheim Calif	6-8	Rolab Studios Walnut Tree Hill Sandy Hook Conn	8		
Hallikainen Instruments 1841 7 St Berkeley 10 Calif	7	Schafer Custom Eng'g 235 S 3 St Burbank Calif	10		
Hammarlund Mfg Co 460 W 34 St New York 1 NY	9-10-11	Scott Inc H H 385 Putnam Ave Cambridge 39 Mass	1		
Hartman Electrical Mfg Co 175 N Diamond St Mansfield Ohio	4	Shand & Jura Co 2600 8th St Berkeley 10 Calif	6		
Holland Electronics 772 E 53 St Brooklyn NY	3-4-7	Skiatron Electronics & TV Corp 180 Varick St New York 14 NY	4-5-7-8-11		
Houston Fearless Div Color Corp of America 11801 W Olympic Blvd Los Angeles 64 Calif	11	Statistical Instr Co 330 Haven Ave New York 33 NY	10		
Hughey & Phillips 3300 N San Fernando Blvd Burbank Calif	7-12	Stewart Corp F W 4311 Ravenwood Ave Chicago 13 Ill	10-11		
Ideal Electric & Mfg Co 300 E 1 St Mansfield Ohio	6	Stewart & Stevenson Service 4516 Harriarburgh Blvd Houston 1 Texas	6		
Industrial Timer Corp 1407 McCarter Hwy Newark 4 NJ	5	Superior Electric Co 83 Laurel St Bristol Conn	5		
Industrial Research Labs Div Aeronex Mfgs Corp Hilton & Fredericks Rds Baltimore Md	4-9	Systron Corp 2055 Concord Blvd Concord Calif	4		
Klinef Hrs 321 W 50 St New York 19 NY	5	Tabet Mfg Co 1335 Ballentine Blvd Norfolk 12 Va	7		
Kollman Instrument Corp Standard Coil Products R0-08 45 Ave Elmhurst 78 NY	7	Taller & Cooper 75 Front St Brooklyn 1 NY	13		
Kurman Electric Co 191 Newel St Brooklyn 22 NY	7	Tech Labs Bergen & Edsall Blvd Palisades Park NJ	3		
Lane Electronics Mfg Corp 7254 Atoll Ave N Hollywood Calif	10	Tech-Master Corp 75 Front St Brooklyn 1 NY	11		
Leas Inc 3171 S Bundy Dr Santa Monica Calif	10	Technical Material Corp 700 Fenimore Rd Mamaroneck NY	2-4-10		
L. E. E. Inc 625 N Y Ave NW Washington 1 DC	1-3	Telechrome Mfg Corp 28 Ranick Dr Amityville LI NY	11		
		Telectro Industries Corp 35-18 37 St Long Island City 1 NY	1-2-9-10		
		Thompson Products Inc Electronics Div 2196 Clarkwood Rd Cleveland 3 Ohio	4		
				Abrams Instrument Corp 605 E Shawansee St Lansing 1 Mich	6-14-20-25
				AC Electronics Div GMC 1925 E Kenilworth Pl Milwaukee 1 Wis	20
				Ace Instrument Co Inc 172 Pacific St Brooklyn NY	3-15-16-18
				Acoustica Associates 25 Windsor Ave Mineola NY	25
				Adler Electronics Inc 1 Lefevre Lane New Rochelle NY	11-30
				Advanced Electronics Inc 94 Silas Deane Hwy Rocky Hill 9 Conn	1-13-24
				Advanced Instruments 45 Kenneth St Newton Highlands 61 Mass	2-7-33-34
				Advance Industries Inc 540 Memorial Dr Cambridge 39 Mass	4-20
				Advance Instrument Corp 1709 E St Belmar NJ	11
				Aemco Inc 10 State St Mankato Minn	52-73-75

22—CONTROL EQUIPMENT, INDUSTRIAL

Controls, alarm system	1
Controls, chemical	2
Controls, combustion	3
Controls, computer	4
Controls, conductivity	5
Controls, counting & sorting	6
Controls, density	7
Controls, dimension	8
Controls, door	9
Controls, dynamometer	10
Controls, electronic	11
Controls, elevator	12
Controls, film thickness	13
Controls, fire	14
Controls, flame failure	15
Controls, fluid flow	16
Controls, food processing	17
Controls, gas	18
Controls, grading & sorting	19
Controls, guided missile	20
Controls, heat treating	21
Controls, humidity	22
Controls, illumination	23
Controls, inspection	24
Controls, liquid level	25
Controls, machine safety	26
Controls, materials thickness	27
Controls, mechanical overload	28
Controls, moisture	29
Controls, motor & generator	30
Controls, oxygen	31
Controls, package wrapping	32
Controls, pH	33
Controls, photoelectric	34
Controls, photographic	35

Patton-MacGuyer Co
17 Virginia Ave Providence 5 RI 85

Penn Fibre & Specialty Co
2020 E Westmoreland St
Philadelphia 34 Pa 40

Permonite Mfg Co
444 Lake Shore Dr
Chicago 11 Ill 31-35-40-41

Pix Mfg Co
75 Hudson St Newark 8 NJ 29-32-35

Plastic-Craft Products Corp
1 Station Plaza W Nyack NY 40-41

Plastic Mold & Eng'g Co
157 Clifford St Providence RI 31

Pomona Electronics Co
1125 W 8 Ave Pomona Calif 30

Precision Metal Products Co
41 Elm St Stoneham Mass 35-39-40-41

Progress Electronics Co
296 Broadway
New York 7 NY 26-27-29-30-31

Pye Canada Ltd
#2 Northline Bldg
Toronto 16 Ontario Canada 31

Pyle-National Co
1334 N Koester Ave Chicago 51 Ill 28-31

Radio Corp of America
Commercial Electronic Products
Front & Cooper Sta Camden NJ 33-34-35

Radio Essentials Inc
152 Macquesten Pkwy
Mt Vernon NY 31-35-36-37-38-39-40-41

Raypar Inc
7800 W Addison St Chicago 34 Ill 26

Raytheon Mfg Co Ceramic Sales
Foundry Ave Waltham Mass 28-35-36-39

Raytheon Mfg Co Microwave & Power
Tube Operations
Foundry Ave Waltham Mass 35-36

Remler Co
2101 Bryant St San Francisco Calif 28

Rodale Mfg Co
6 & Minor Sts Emmaus Pa 28-31

Romar Plastics Inc
1311 E Main St St Charles Ill 40

Rubbercraft Corp of Calif
1800 W 220 St Torrance Calif 35

Russell & Stoll Co Inc
125 Barclay St New York 7 NY 29

Sangamo Electric Co
1207 N 11th St Springfield Ill 41

Schaffer Air Industries
230 N Henry St Brooklyn 22 NY 33-34

Scintilla Div Bendix Aviation Corp
Delaware Ave Sidney NY 28-29

Sealco Corp
610 Fayette Ave Mamaroneck NY 33-35-39

Seals Inc
165 S Fair Oaks Ave Pasadena Calif 32-36

Shakeproof Div Illinois Tool Works
St Charles Rd Elgin Ill 35

Shaw Insulator Co
160 Coit St Irvington NJ 40

Sheffco Mfg Corp
323 Bergen Blvd Fairview NJ 85

Sightmaster Corp
50 Aleppo St Providence RI 40-41

Silicone Insulation Inc
Seabury Ave & Butler Pl Bronx 61 NY 40-41

Silicone Seals Inc
3125 Milwaukee Ave
Chicago 18 Ill 32-36-39-40

Sinclair Mfg Co
S Worcester St Chertley Mass 39

Slip Ring Co of America
3612 W Jefferson Blvd
Los Angeles 16 Calif 40

Smith Inc Herman H
2326 Nostrand Ave
Brooklyn 10 NY 30-31-46-41

Spatulding Fibre Co
310 Wheeler St Tonawanda NY 40

Sphere Co
25 Amity St Little Falls NJ 36

Spiraling Products Co
Henrietta St & Duffy Ave
Hicksville LI NY 27

Spivey Inc James S
4908 Hampden Lane
Washington 14 DC 33-34

Standard Electric Time Co
89 Logan St Springfield 2 Mass 30-31-33

Standard Electronics Div Radio Eng'g Labs
30 & Borden Sts Long Island City NY 33

Star Expansion Products
719 A Second Ave New York NY 31

States Co
19 New Park Ave Hartford 6 Conn 40-41

Steel Co Herman D
Lafayette Bldg Philadelphia 6 Pa 35

Stone City Machine & Tool Co
1206 7 St Bedford Ind 35

Strat-O-Seal Mfg Co
3039 W Fullerton Ave
Chicago 47 Ill 36-40-41

Stromberg-Carlson Div General
Dynamics Corp 100 Carlson Rd
Rochester 8 NY 31-41

Stupakoff Div Carborundum Co
Latrobe Pa 35-36-39

Superex Electronics Corp
58 Marbledale Rd Tuckahoe NY 31

Swedlow Plastics Co
6986 Bandini Blvd
Los Angeles 22 Calif 40-41

Switchcraft Inc
1328-30 N Halstead St Chicago 30 Ill 33

Sylvania Electric Products Inc Parts Div
12 2nd Ave Warren Pa 81

Taffet Radio & TV Co
27-05 Brooklyn-Queens Expressway W
Woodside 77 NY 31-40-41

Taurus Corp
8 Corvelli St Lambertville NJ 35-39

Technical Material Corp
40 Fenimore Rd Mamaroneck NY 30-31-33

Techniques Inc
52 Jackson Ave Hackensack NJ 40-41

Telectro Industries Corp
35-18 37 St Long Island City 1 NY 30

Telematic Industries Inc
16 Howard Ave Brooklyn 7 NY 30

Telephonics Corp
Park Ave Huntington LI NY 33

Telex
1633 Eustis St St Paul 1 Minn 30-31

Telker Inc N Murray
Ridge Rd Elyria Ohio 40

Telkor Inc
Box 186 Elyria Ohio 40-41

Thale Eng'g Corp
2104 E Villa St Pasadena Calif 34

Thomas & Betts Co
35 Butler St Elizabeth NJ 35-38-41

Thompson-Bremer & Co Sub
American Machine & Fdry
228 N La Salle St Chicago 1 Ill 35

Tiior Ceramics Inc
225 Belleville Ave
Bloomfield NJ 32-35-36-39-40-41

Time Electronic Sales
373 Broadway New York 13 NY 28-29-31

Titeflex Inc
Hendee St Springfield 4 Mass 28-29

Torwico Electronics Inc
1090 Morris Ave Union NJ 36-39

Triad Transformer Corp
4055 Redwood Ave Venice Calif 36

Tri-Dex Electronics
P O Box 1207 Lindsay Calif 40-41

Trimco Inc
400 W Lake St Libertyville Ill 31-38

Trimount Plastic Co
71 Dudley St Arlington 74 Mass 40-41

Tri-Point Plastics Inc
175 I U Willets Rd
Albertson LI NY 39-40

Tronex Inc
Wheaton Ave Millvale NJ 36

Tru-Connector Corp
416 Union St Lynn Mass 28-29

Tubular Rivet & Stud Co
Weston Ave Wollaston 70 Mass 35

Ucinite Co Div United-Carr Fastener Corp
459 Watertown St Newtonville 60 Mass 31

United Shoe Machinery Corp
140 Federal St Boston 7 Mass 38

Universal Circuit Controls Corp
3610 Oakton St Skokie Ill 33

U S Instrument Corp
P O Box 1191 Charlottesville Va 33-34-41

Vaco Products Co
317 E Ontario St Chicago 11 Ill 38

Viking Industries Inc
21343 Roscoe Blvd Canoga Park Calif 28

Virginia Electronics Co
River Rd & B & O R R
Washington 16 DC 30-33-34-41

Vitrosol Corp
P O Box 6048 709 E 106 St
Indianapolis 20 Ind 32-35-36-39-40-41

Wade Electric Products Co
Box 271 Sturgis Mich 29-35-37-38-40-41

Waldom Electronics Inc
4625 W 53 St Chicago 32 Ill 35-38-41

Walisco Electronics Mfg Co
100 W Green St Rockford Ill 30-31-41

Waltham Horological Corp
395 Lynnway Lynn Mass 31-33

Waltham Screw Co
77 Rumford Ave Waltham 54 Mass 31-36-39

Warren Plastics Corp
Warren Pa 32

Waterbury Cos Inc
835 S Main St P O Box 1032
Waterbury Conn 35

Waterbury Pressed Steel
300 Chase Ave Waterbury 14 Conn 38

Western Felt Works
4029 Ogden Ave Chicago Ill 40

Western Intl Co
45 Vesey St New York 7 NY 27-28-29-31

Westline Products Div Western Lithograph Co
600 E 2 St Los Angeles 54 Calif 41

Wheaton Co T C
Millville NJ 35-36-39-41

Whitso Inc
9330 Byron St Schiller Park Ill 39

Wiggins Oil Tool Co E B
3424 E Olympic Blvd
Los Angeles 23 Calif 31

Willard Storage Battery
246 E 151 St Cleveland 1 Ohio 38

Winchester Electronics Inc
Willard Rd
Norwalk Conn 28-31-35-36-37-38-39

Winslow Co
701 Lehigh Ave Union NJ 34

Wisconsin Porcelain Co
121 Lincoln St Sun Prairie Wis 29

21—CONTROL EQUIPMENT, COMMUNICATIONS

Controls, audio recording 1
Controls, automatic tuning 2
Controls, broadcast input 3
Controls, frequency 4
Controls, illumination 5
Controls, motor & generator 6
Controls, photoelectric 7
Controls, photographic 8
Controls, power level 9
Controls, remote radio 10
Controls, remote TV 11
Controls, tower lighting 12
Controls, ventilation 13
Tuners, automatic 14

Adler Electronics Inc
1 Lefevre Lane New Rochelle NY 46-11

Aeroflex Labs
34-06 Skillman Ave
Long Island City 1 NY 8-11

Aerona Mfg Corp
Middletown Ohio 4-7

Aerotronic Associates
Box 419 Concord NH 8-9

Airborne Accessories Corp
1414 Chestnut Ave Hillside 5 NJ 6

Airmec Ltd
High Wycombe Buckinghamshire England 7

Allen-Bradley Co
136 W Greenfield Ave Milwaukee 4 Wis 6

Alliance Mfg Co
Lake Park Blvd Alliance Ohio 11

Altec Lansing Corp
1515 S Manchester Ave Anaheim Calif 1

American Rectifier Corp
95 Lafayette St New York 13 NY 6

Arrow-Hart & Higgeman Electric Co
103 Hawthorne St Hartford 6 Conn 6

Automatic Switch Co
Hanover Rd Florham Park NJ 4-12

Autotron Inc
3629 N Vermilion St Danville Ill 6-7-12

Barton Electronics Inc
1000 Farmington Ave
W Hartford 7 Conn 7

Bendix Aviation Corp Red Bank Div
Rt 35 Eatontown NJ 4-6

Berne Engineering Corp
2320 S Tibbs Ave Indianapolis 41 Ind 6

Berndt-Hach Inc Auricon Div
6900 Romaine Ave Hollywood 38 Calif 8

Bias Electronic Corp
Box 366 Sussex NJ 3-10

Bogue Electric Mfg Co
62 Iowa Ave Paterson 3 NJ 4-6-9

Briggs Associates
10 Dekalb St Norristown Pa 10

Bristol Co
P O Box 1790 Ft Waterbury Conn 9-13

British Electronic Sales Co Inc Painton Div
Oakland Gdn Flushing 64 NY 1-3

Canadian Aviation Electronics Ltd
6214 Cote de Liesse Rd
St Laurent Quebec Canada 10

Capitol Transcription Service
1120-A Conn Ave N W Washington 6 DC 1

CG Electronics Corp
1500 Central St Albuquerque New Mex 10

Cinema Eng'g Div Aerovox Corp
1100 Chestnut St Burbank Calif 1

Clark Controller Co
1146 E 162 St Cleveland 10 Ohio 6

Collins Radio Co
85 35 St N E Cedar Rapids Iowa 3-4-14

Comac Instrument Co
66-11 99 St Forest Hills 74 NY 10

Consolidated Avionics Corp
800 Shames Dr Westbury NY 4

Consolidated Productions Inc
Broward Intl Airport Ft Lauderdale Fla 10

Continental Electronics Ltd
302 Oakland St Brooklyn 22 NY 10

Continental Electronics Mfg Co
4212 S Ruckner Blvd Dallas 27 Texas 10

Control Corp
718 Central Ave
N E Minneapolis 14 Minn 4

Controlled Atmosphere Enclosures Corp
230-11 141 Ave
Springfield Gardens LI NY 13

Cook Electric Co
2700 Southport Ave Chicago 14 Ill 4

Crown Engineering
3821 Commercial N E Albuquerque NM 7

Dalmo Victor Co Div Textron Inc
1515 Industrial Way Belmont Calif 2

Datascan Inc
48 Notch Rd Little Falls NJ 7

Daven Co
Route 10 Livingston NJ 1-3-9

Davenport Mfg Co
1713 N Ashland Ave Chicago 22 Ill 7

Dayton Aviation Radio & Equipment Corp
P O Box 258 Troy Ohio 10

Deitz Co S J
9 E Wesley St & Hackensack NJ 7

Detect-O-Ray Co 2622 N Halsted St Chicago 14 Ill	7	Leland Electric Co Aircraft Products Plant 740 E National Rd Vandalia Ohio	6	Transline Electronic Communication Co 95 Summit St Newark 3 NJ	7-10
Dietz Co Henry G 12-16 Astoria Blvd Long Island City 2 NY	13	Lindly & Co 248 Herricks Rd Mineola NY	7	Tri-Tronics Co 2607 St Charles Rd Bellwood Ill	7
Dunlap Electronics 764 9 St Des Moines 14 Iowa	1-3-10	Lumenite Electronic Co 407 S Dearborn St Chicago 5 Ill	5-7-10	Trott Electronics Inc 412 Smith St Rochester 6 NY	7
Dynamics Research Associates Div Universal Match Corp P O Box 5841 Ferguson 21 Mo	4	McCoy Electronics Co Chestnut & Watta Sta Mt Holly Springs Pa	4	TV Specialty Co 350 W 31 St New York 1 NY	8
Dynapor Corp 5180 Church St Skokie Ill	4	Madigan Corp 526 Mineola Ave Carle Place NY	10-11	United Electric Controls Co 85 School St Watertown 72 Mass	6
Ecior Inc Div Jacobs Co 517 W Walnut St Ogelsby Ill	6	Magnasynic Mfg Co 5546 Satsuma Ave N Hollywood Calif	1	U S Controls Inc 161 Grand St New York 13 NY	5-6-7
Electrical Communications Inc 765 Clementine St San Francisco 3 Calif	6-10-12	Magnecord Div Midwestern Instruments Inc P O Box 7186 Tulsa Okla	1	Varo Mfg Co 2201 Walnut St Garland Texas	1-2-4-6-9-10
Electric Regulator Corp Pearl St Norwalk Conn	4-6-9	Mallory & Co Inc P R 42 S Gray St Indianapolis 6 Ind	1-6-8-13-14	Veetrol Eng'g Inc P O Box 1089 Stamford Conn	4-7
Electrola Inc 7517 N Clark St Chicago 26 Ill	10	Manson Laboratories Inc 207 Greenwich Ave Stamford Conn	4	Virginia Electronics Co River Rd & B & O RR Washington 16 DC	10
Electronic Communications Inc 1501 72 St St Petersburg Fla	2-4-10-14	Maxson Instruments Div W L Maxson Corp 47-37 Austell Pl Long Island City 1 NY	4	Wacline Inc 35 S St Clair St Dayton 2 Ohio	6
Electronics Corp of America 1 Memorial Dr Cambridge 42 Mass	5-7	Measurement Eng'g Ltd 232 John St Arrprior Ontario Can	5-8	Wang Labs Inc 37 Hurley St Cambridge 41 Mass	4
Electronics Design Co 400 F. Cornell St P O Box 401 Enid Okla	10	Michigan Electronics Inc 854 N Rockwell St Chicago 22 Ill	5-10	Warren Mfg Co Newtown Rd Littleton Mass	4
Electro Physics Co 297 Broadway New York 7 NY	7-8	Modine Mfg Co 1500 De Koven Ave Racine Wis	13	Wells-Gardner & Co 2701 N Kildare Ave Chicago 39 Ill	10
Elm Labs 10 Washington Ave Hastings-on-Hudson NY	10-11	Mohawk Business Machines Corp 944 Halsey St Brooklyn 33 NY	10-11	Westinghouse Electric Corp P O Box 865 Pittsburgh 30 Pa	6
Engineered Magnetics Div Gulton Industries Inc 13030 Cerise Ave Hawthorne Calif	6	Moore Associates Inc 2628 Spring St Redwood City Calif	10	Weston Electrical Instrument Corp 614 Frelinghuysen Ave Newark 12 NJ	8
Erco Radio Labs Inc 637 Stewart Ave Garden City NY	10	Multi-Products Co 21470 Coolidge Hwy Oak Park 37 Mich	10	White Dental Mfg Co S S Industrial Div 10 E 40 St New York 16 NY	10-11
Eas Instrument Co 96 S Washington Ave Bergenfield NJ	7	National Aircraft Corp 3411 Tulare Ave Burbank Calif	6	Winder Aircraft Corp of Fla P O Box 2397 Drane Fld Lakeland Fla	5
Farmer Electric Products Co 2300 Washington St Newton Lower Falls 62 Mass	7	Nevada Air Products Co P O Box 2472 Reno Nev	14	Worner Electronics Devices Rankin Ill	5-7-12
Federal Inc 14 W 6592 Hamilton Ave Pittsburgh 6 Pa	8	Norrman Laboratories Ernst Williams Bay Wis	4	Young Spring & Wire Co Ganset Div 801 S Main St Burbank Calif	11
Fisher Co Inc Oscar P O Box 426 Newburgh NY	8	O'Brien Electric Corp 6514 Santa Monica Blvd Hollywood 38 Calif	3		
Flight Research Inc P O Box 1-F Richmond 1 Va	7-8	Otis Elevator Co Electronic Div 35 Ryerson St Brooklyn 5 NY	10		
Frequency Standards Inc P O Box 504 Asbury Park NJ	4	Par Products Corp 602 Colorado Ave Santa Monica Calif	8		
Gates Radio Co 123 Hampshire St Quincy Ill	1	Peer Inc 1200 Milton St Benton Harbor Mich	10		
General Control Co 1200 Soldiers Field Rd Boston 34 Mass	10-11	Perma-Power Co 3102 N Elston Ave Chicago 18 Ill	10		
General Controls Co 801 Allen Ave Glendale 1 Calif	6	Philamon Labs Inc 90 Hopper St Westbury LI NY	4		
General Electric Co Dist Assemblies Dept 41 Woodford Ave Plainville Conn	6-9	Phileo Corp Tioga & C Sta Philadelphia 24 Pa	5-11		
General Electric Co Industry Control Dept P O Box 2488 Roanoke Va	5	Phileo Corp Govt & Industrial Div 4700 Wissahickon Ave Philadelphia 44 Pa	11-12		
General Electric Co Specialty Control Dept P O Box 812 Waynesboro Va	6-7	Phonix Precision Instrument Co 3803 N 5 St Philadelphia 40 Pa	7-8		
General Precision Lab Inc 63 Bedford Rd Pleasantville NY	11	Photocon Research Products 421 N Altadena Dr Pasadena Calif	8		
General Radio Co 275 Massachusetts Ave Cambridge 39 Mass	5	Photographic Products Inc 1000 N Olive St Anaheim Calif	8		
Genet Co Paul E 4868 N Clark St Chicago 40 Ill	8	PSC Applied Research Ltd 1500 O'Connor Dr Toronto 16 Canada	18		
Globe Industries Inc 1784 Stanley Ave Dayton 4 Ohio	6	Pye Canada Ltd 82 Northline Rd Toronto 16 Ontario Canada	11		
Gordon Enterprises 5362 N Cahuenga Blvd N Hollywood Calif	1-8	Pye Telecommunications Ltd Newmarket Rd Cambridge England	10		
Gray Pantograph Engraving 290 Washington St Hoboken NJ	5	Radio Corp of America Commercial Electronic Products Front & Cooper Sts Camden NJ	6-11		
Green Rectifier Co 1-10 30 St Fairlawn NJ	6	Ransom Research Box 269 925 W 7 St San Pedro Calif	7		
Gyro Electronics Co 825 Canal St New York 13 NY	10	Reliance Automatic Lighting Co 1927 Mead St Racine 3 Wis	12		
Hallamere Electronics Co 8352 Brookhurst Ave Anaheim Calif	6-8	Rich Electronics Inc 212 N W 8 Ave Miami 36 Fla	14		
Hallikainen Instruments 1541 7 St Reskeje 10 Calif	7	Rolab Studios Walnut Tree Hill Sandy Hook Conn	8		
Hammarlund Mfg Co 460 W 34 St New York 1 NY	9-10-11	Schafer Custom Eng'g 235 S 3 St Burbank Calif	10		
Hartman Electrical Mfg Co 175 N Diamond St Mansfield Ohio	4	Scott Inc H H 385 Putnam Ave Cambridge 39 Mass	1		
Holland Electronics 772 E 83 St Brooklyn NY	8-4-7	Shand & Jurs Co 2600 8th St Berkeley 10 Calif	6		
Houston Fearless Div Color Corp of America 11801 W Olympic Blvd Los Angeles 64 Calif	11	Skiatron Electronics & TV Corp 180 Varick St New York 14 NY	4-5-7-8-11		
Hughey & Phillips 3300 N San Fernando Blvd Burbank Calif	7-12	Statistical Instr Co 330 Haven Ave New York 33 NY	10		
Ideal Electric & Mfg Co 300 E 1 St Mansfield Ohio	6	Stewart Corp F W 4311 Ravenswood Ave Chicago 13 Ill	10-11		
Industrial Timer Corp 1407 McCarter Hwy Newark 4 NJ	8	Stewart & Stevenson Service 4516 Harriaburgh Blvd Houston 1 Texas	6		
Industrial Research Labs Div Aeronautical Corp Hilltop & Fredericks Rds Baltimore Md	4-8	Superior Electric Co 88 Laurel St Bristol Conn	5		
Kiegl Bros 321 W 50 St New York 19 NY	5	Systron Corp 2055 Concord Blvd Concord Calif	4		
Kollsman Instrument Corp Standard Coil Products 80-0R 45 Ave Elmhurst 73 NY	7	Tabet Mfg Co 1335 Ballentine Blvd Norfolk 12 Va	7		
Kurman Electric Co 191 Newel St Brooklyn 22 NY	7	Taller & Couper 75 Front St Brooklyn 1 NY	13		
Lane Electronics Mfg Corp 7254 Atoll Ave N Hollywood Calif	10	Tech Labs Bergen & Edsall Blvd Palisades Park NJ	3		
Lear Inc 3171 S Bundy Dr Santa Monica Calif	10	Tech-Master Corp 75 Front St Brooklyn 1 NY	11		
L E E Inc 625 N Y Ave NW Washington 1 DC	1-3	Technical Material Corp 700 Fenimore Rd Mamaroneck NY	2-4-10		
		Teledrome Mfg Corp 28 Ranick Dr Amityville LI NY	11		
		Telectro Industries Corp 36-18 37 St Long Island City 1 NY	1-2-9-10		
		Thompson Products Inc Electronics Div 2196 Clarkwood Rd Cleveland 3 Ohio	4		
				Abrams Instrument Corp 606 E Shawwassee St Lansing 1 Mich	6-14-20-35
				AC Electronics Div GMC 1925 E Kenilworth Pl Milwaukee 1 Wis	20
				Ace Instrument Co Inc 172 Pacific St Brooklyn NY	3-15-16-18
				Acoustica Associates 26 Windsor Ave Mineola NY	25
				Adler Electronics Inc 1 Lefevre Lane New Rochelle NY	11-30
				Advanced Electronics Inc 94 Silas Deane Hwy Rocky Hill 9 Conn	1-11-24
				Advanced Instruments 45 Kenneth St Newton Highlands 61 Mass	2-7-33-34
				Advance Industries Inc 640 Memorial Dr Cambridge 39 Mass	8-20
				Advance Instrument Corp 1709 P St Belmar NJ	11
				Aemco Inc 10 State St Mankato Minn	62-73-75

22—CONTROL EQUIPMENT, INDUSTRIAL

Controls, alarm system	1
Controls, chemical	2
Controls, combustion	3
Controls, computer	4
Controls, conductivity	5
Controls, counting & sorting	6
Controls, density	7
Controls, dimension	8
Controls, door	9
Controls, dynamometer	10
Controls, electronic	11
Controls, elevator	12
Controls, film thickness	13
Controls, fire	14
Controls, flame failure	15
Controls, fluid flow	16
Controls, food processing	17
Controls, gas	18
Controls, grading & sorting	19
Controls, guided missile	20
Controls, heat treating	21
Controls, humidity	22
Controls, illumination	23
Controls, inspection	24
Controls, liquid level	25
Controls, machine safety	26
Controls, materials thickness	27
Controls, mechanical overload	28
Controls, moisture	29
Controls, motor & generator	30
Controls, oxygen	31
Controls, package wrapping	32
Controls, pH	33
Controls, photoelectric	34
Controls, photographic	35

Aeromotive Eng'g Products Ltd 6257 Queen Mary Rd Montreal Que Canada	1-2-6-11-16-17-19- 20-24-25-32-34		
Aerona Mfg Corp Middletown Ohio		I	
Aerotron Associates Box 419 Concord NH		35	
Airborne Accessories Corp 1414 Chestnut Ave Hillside 5 NJ	1-4-6-11-20-26		
Airborne Instruments Lab Inc 160 Old Country Rd Mineola NY		24	
AirResearch Mfg Co Div Garrett Corp 5851 Sepulveda Blvd Los Angeles 45 Calif		11-30-31	
Airmec Ltd High Wycombe Buckinghamshire England		6-25-31	
Alden Electronic & Impulse Recording Equip Co P O Box 125 Westboro Mass		63	
Alfred Electronics 897 Commercial St Palo Alto Calif		66	
Allen-Bradley Co 135 W Greenfield Ave Milwaukee 4 Wisc		25-30	
Alliance Mfg Co Lake Park Blvd Alliance Ohio		9	
Allied Engng & Production Corp 2421 Blanding Ave Alameda Calif		26	
Allia Chalmers Mfg Co 934 S 70th St Milwaukee 1 Wisc		30-33	
Allis Co Louis 427 E Stewart St Milwaukee 1 Wisc		30	
American Communications Corp 280 Broadway New York 17 NY		1	
American Electronic Laboratories 121 N 7 St Philadelphia 6 Pa		11-31	
American Instrument Co 5050 Georgia Ave Silver Springs Md 13-22-29			
American Machine & Foundry Co Defense Products Group 1101 N Royal St Alexandria Va		20-24-26-27-29	
American Moistening Co Cleveland NC		22	
American Rectifier Corp 95 Lafayette St New York 13 NY		11-12-20-26-30	
American Research Products Box 185 Sorrento Fla		1-25	
American Searchlight Corp 38 W 63 St New York NY		11-21	
Amglo Corp 4333 Ravenswood Ave Chicago 13 Ill		62-70-71-78-75	
Analogous Controls Inc 39 Roselle St Mineola NY		2-4-11-20	
Ansonne Electronics Mfg Corp 165-11 South Rd Jamaica 33 NY		59	
Arfin Products Inc 13541 Auburn Ave Detroit 23 Mich	1-6-8-11-19-24-26-27-28-34		
Arnoux Corp 11924 W Washington Blvd Los Angeles 66 Calif		1	
Askania Regulator Co 240 E Ontario St Chicago 11 Ill		3-16-25	
Assembly Products Inc 75 Wilson Mills Rd Cleveland Ohio	1-2-3-14-15-21-23-24-25- 26-27-28-29-30-32-34		
Audicon Electronics Inc 215 Lyon St Paterson 4 NJ		1-11	
Auth Electric Co 34-20 45 St Long Island City 1 NY		1	
Authorized Mfrs Service Co 919 Wyckoff Ave Brooklyn 27 NY		1	
Audocall Co 57 Mack Ave Shelby Ohio		1-42	
Automatic Control Co 995 University Ave St Paul 4 Minn		1-16-25	
Automatic Switch Co Hanover Rd Florham Park NJ		11-16	
Automation Inc 212 Worcester St Wellesley Hills 82 Mass		6-11-19	
Automation Instruments Inc Industrial Pk Boulder Colo		5-8-13	
Automation Management Inc Adams St Westboro Mass		17-19	
Autotron Inc 3629 N Vernilion St Danville Ill	6-23-24-34		
Autron Eng Inc 1254 W 6 St Los Angeles 17 Calif		6-11-25-26-34	
Avionics Ltd P O Box 200 Niagara-on-the-Lake Ontario Canada		34	
Avtron Mfg Inc 10409 Meech Ave Cleveland 5 Ohio		11	
Axler Associates Inc 102-42 43 Ave New York 68 NY		84	
Bailey Meter Co 1050 Ivanhoe Rd Cleveland 10 Ohio		3-5-16-17-18-21-25-53	
Baird-Atomic Inc 33 University Rd Cambridge 38 Mass		4-6-11	
Barber-Colman Co 1300 Rock St Rockford Ill		1-2-3-15-17-21-32-33	
Barlowe Electronics 392 Wantagh Ave Bethpage NY		11-25	
Barlowe Television 402 N Wantagh Ave Bethpage NY		11-25	
Barnes Development Co 213 W Baltimore Ave Lansdowne Pa	6-19-24		
Barrett Electronics Corp 630 Dundee Rd Northbrook Ill		11-34	
Barton Electronics Inc 1000 Farmington Ave W Hartford Conn		6-8-11-27-34	
Basic Controls Co 1714 Westwood Blvd Los Angeles 24 Calif		1-6-7-9-11-19- 21-23-25-34	
Beckman Instruments Inc Data & Control Systems Scientific Instrument Div 3-5 N Muller Ave Anaheim Calif		1-2	
Beckman Instruments Inc Process Instruments Div 2500 Fullerton Rd Fullerton Calif		2-29-83	
Beifab Corp 11 Ramah Circle Agawam Mass		16-25	
Belock Instrument Corp 111-01 14 Ave College Point 66 NY		4-11-20	
Bendix Aviation Corp Pacific Div 11900 Sherman Way N Hollywood Calif	49		
Bendix Aviation Corp, Friez Instrument Div 1400 Taylor Ave Baltimore 4 Md		22	
Bendix Aviation Corp Cincinnati Div 3130 Wason Rd Cincinnati 8 Ohio		7-25	
Bergen Labs 24 Crocus Ave Clifton NJ		2-11	
Berno Engineering Corp 2320 S Tibbs Ave Indianapolis 41 Ind		11-20-21-25-26-30	
B I F Industries 345 Harris Ave Providence RI		16	
Bogue Electric Mfg Co 52 Iowa Ave Paterson 3 NJ		4-11-20-25-30	
Briggs Associates 10 DeKalb St Norristown Pa	1-2-4-6-7-8-11-16- 19-20-24-27-34		
Bristol Co P O Box 1790 El Waterbury Conn	1-2-3-5-6-7-11-15-16-17- 18-21-22-25-29-31-33		
Brooke Engng Co 4517 Wayne Ave Philadelphia 44 Pa		3	
Brooks Rotameter Co P O Box 432 Lansdale Pa		116-25	
Bruno-New York Industries Corp 460 W 34 St New York 1 NY		11	
Bunnell & Co J H 81 Prospect St Brooklyn 1 NY		1	
Burling Instrument Co 16 River Rd Chatham NJ		50	
Butcher Co L H 3628 E Olympic Blvd Los Angeles Calif		33	
B W Controller Corp 2200 E Maple Birmingham Mich		1-25	
Cable Electric Products 234 Daboll St Providence 7 RI		23	
Calbest Electronics Co 4801 Exposition Blvd Los Angeles 16 Calif		9-11-29	
Canadian Aviation Electronics Ltd 6214 Cote de Liesse Rd St Laurent Quebec Canada		33	
Canadian Curtis-Wright Ltd 1980 Sherbrooke St W Montreal Que Canada		7-8-13-25-27-29	
Cardinal Instrumentation Corp 4201 Redwood Ave Los Angeles 66 Calif	14		
Cash Valve Mfg Corp A W P O Box 191 Decatur Ill		1-17-81	
CDC Control Services Inc 404 S Warminster Rd Hatboro Pa	2-3-4-8-11-16-18-21-22-27-29		
CGS Laboratories Inc Routes 7 & 35 Ridgefield Conn		30	
Chatham Controls Corp 33 River St Chatham NJ		1	
Cinema-Television Ltd Worsley Bridge Rd Lower Sydenham London E 26 England		6-8	
Clark Controller Co 1146 E 152 St Cleveland 10 Ohio		11-16-25-26-30	
Cleveland Instrument Co 785 Carnegie Ave Cleveland 15 Ohio	8-24-27		
Colorado Research Corp 4697 E Evans Ave Denver 22 Colo		4-11	
Compton Corp 778 Pleasant St Belmont 79 Mass		50	
Computer Control Co 92 Broad St Wellesley 57 Mass		4	
Computing Devices of Canada Ltd P O Box 508 Ottawa Ontario Can		4-7	
Conofor Corp 2100 Arch St Philadelphia 3 Pa		16-17-18	
Consolidated Avionics Corp 800 Shames Dr Westbury NY		4-13	
Consolidated Controls Corp 4 Durant Ave Bethel Conn		20	
Consolidated Electrodynamics Corp 300 N Sierra Madre Villa Pasadena Calif		2-11-29	
Consolidated Productions Inc Broward Intl Airport Ft Lauderdale Fla		11-20	
Control Circuits Inc 103 Court St Middletown Conn		6	
Control Corp 718 Central Ave N E Minneapolis 14 Minn		1	
Control Data Corp 501 Park Ave Minneapolis 15 Minn		4-6-11-19-20	
Controlled Atmosphere Enclosures Corp 230-11 141 Ave Springfield Gardens LI NY		22-29-31	
Controls Co of America 9555 Soreng Ave Schiller Park Ill		16-18-25	
Cook Electric Co 2700 Southport Ave Chicago 14 Ill		1-11-26	
Cooper Co D C 1467 S Michigan Ave Chicago 6 Ill		22-32	
Cosa Corp 405 Lexington Ave New York 17 NY		10	
Cramer Controls Corp Centerbrook Conn		52-71-72-73-75	
Crescent Eng'g & Research Co 5440 N Peck Rd El Monte Calif		8-11-13-16-20-26	
Crown Engineering 8821 Commercial N E Albuquerque NM	1-8-9		
Cunningham Son & Co James 33 Litchfield St Rochester 8 NY		4-6-19	
Curtis-Wright Corp Electronics Div 681 Central Ave Carlstadt NJ		1-7-8-11-18-16-26-27	
Dalmo Victor Co Div Textron Inc 1515 Industrial Way Belmont Calif		3-11	
Datscan Inc 48 Notch Rd Little Falls NJ		1-6-19-22-29-34	
Daven Co Route 10 Livingston NJ		20	
Davenport Mfg Co 1713 N Ashland Ave Chicago 22 Ill		11-34	
Daytronic Corp 215 S Main St Dayton 2 Ohio		1-8-11-19-24-26-27-28	
Defender Instrument & Regulator Co Boody Ill		3-14-16-18-25	
De Florez Co 116 E 30 St New York 16 NY		6-11-19-23-32-34-35	
Deitz Co S J 9 E Wesley St B Hackensack NJ		6-26-32-34	
Deltron Inc 2905 N Leithrow St Philadelphia 33 Pa		11	
Denrad Mfg Co 310 W Woodard St Denison Texas		1-6-11-17-26-34	
Designers For Industry 4241 Fulton Pkwy Cleveland 9 Ohio		4-7-11-20-34	
Detect-O-Ray Co 2622 N Halsted St Chicago 14 Ill		1-14-34	
Devco Eng'g Inc P O Box 387 Caldwell NJ		1-2-17-21	
Devol Research Co Brookside Dr Greenwich Conn		6-19	
Dial Products Co 9 Ave E Bayonne NJ		28	
Dice Co J W 116 Highwood Ave Enfield NJ		5-8-13-24	
Diehl Mfg Co Finnerne Ave Somerville NJ		51	
Dietz Co Henry G 12-16 Astoria Blvd Long Island City 2 NY		26	
Digital Equip Corp Marford Mass		4	
Digitronics Corp Albertson Ave Albertson LI NY		41-53	
Dimco-Gray Co 207 E 6 St Dayton 2 Ohio		73	
Dunlap Electronics 764 S St Des Moines 14 Iowa		1-6-11-26-27-28-34	
Dunco Eng'g Associates 225 O'Brien Hwy Cambridge 39 Mass		6-29	
Dynac Inc 305 Page Mill Rd Palo Alto Calif		11	
Dynamic Div Eaton Mfg Co 8307 14 Ave Kenosha Wis		10-11	
Dynamic Control Co 1955 Massachusetts Ave Cambridge Mass		58-67-68	
Dynamic Instrument Corp 59 New York Ave Westbury NY		4-11	
Dynamics Research Associates Div Universal Match Corp PO Box 5841 Ferguson 21 Mo		1-4-11-16-17- 18-20-25-28-34	
Dynapar Corp 6150 Church St Skokie Ill		6-8-10-11-16-30-32-34	
Dynatronic Inc 717 W Amelia Ave Orlando Fla		49-70-73	
Eagle Signal Corp 202 20 St Moline Ill		6	
Eastern Industries Inc 100 Skiff St Hamden 14 Conn		16	
Eclipse Fuel Eng'g Co 1100 Huchanan Rockford Ill		8-16-16-18-21	
Eclipse-Pioneer Div Bendix Aviation Corp Teterboro NJ		4-11-20	
Edison Industries Thomas A Instrument Div McGraw-Edison Co 5 Lakeside Ave W Orange NJ		1-20	
Eicon Inc Div Jacobs Co 617 W Walnut St Opelaby Ill		11	
Electrical Communications Inc 765 Clementina St San Francisco 3 Calif		1-5-6-11-20-24-30	
Electrical Service Co 1271 Mission St San Francisco 3 Calif		1-6-11-15- 19-23-26-34	
Electrol Boat Div General Dynamics Eastern Point Rd Groton Conn		4	
Electric Eye Equipment Co 1948 E Fairchild St Danville Ill		11-13-24-27-29-34	

Electric Machinery Mfg Co 800 Central Ave Minneapolis 13 Minn	30	General Communication Co 877 Beacon St Boston 15 Mass	7	Ind Test Equip Co 55 E 11th St New York 3 NY	11
Electric Regulator Corp Pearl St Norwalk Conn	11-20-30	General Controls Co 801 Allen Ave Glendale 1 Calif	3-11-15-16-18- 20-21-22-25-30-34	Industrial Timer Corp 1407 McCarter Hwy Newark 4 NJ	35
Electro-Devices Inc 4 Godwin Ave Paterson 1 NJ	11	General Electric/Computer Dept 1103 N Central Ave Phoenix Ariz	4	Industrial TV Inc 369 Lexington Ave Clifton NJ	12
Electro Instrument Inc Aero Ct San Diego Calif	1-11	General Electric Co Dist Assemblies Dept 41 Woodford Ave Plainville Conn	30	Instruments Inc 122 N Madison St Tulsa Okla	7-25
Electro-Mechanical Div General Riveters Inc 785 Hertel Ave Buffalo 7 NY	20	General Electric Co Apparatus Sales Div 1 River Rd Schenectady 5 NY	1-6-11-12-15-16- 21-23-24-25-26-33-34	Inaul-8 Electronics 1369 Industrial Rd San Carlos Calif	11
Electronic Associates Inc Long Branch NJ	2-4-11-20	General Electric Co Jet Engine Dept Bldg 501 Cincinnati 15 Ohio	8	Intercontinental Dynamics Corp 170 Coolidge Ave Englewood NJ	8-34-74
Electronic Control Corp 1573 E Forest Ave Detroit 7 Mich	1-3-5-6-9-11-25-34	General Electric Co Industry Control Dept P O Box 2488 Roanoke Va	7-10-12-30	International Business Machines Corp 590 Madison Ave New York 23 NY	4
Electronic Control Systems 2231 Barrington Ave Los Angeles 64 Calif	4-8-11-24	General Electric Co Specialty Control Dept P O Box 812 Waynesboro Va	7-9-11-12-19-20-25-30-34	I Q Industries 1114 Westwood Blvd Los Angeles 24 Calif	1-6-7-9-11-19- 21-23-25-34
Electronics Eng'g Co of Calif 1601 E Chestnut St Santa Ana Calif	6	General Kinetics Inc 555 23 St S Arlington 2 Va	4	Isotope Products 1711 Elmwood Ave Buffalo 7 NY	7-13-24-25-29
Electronic Machine Parts Inc 204 Lafayette St New York 12 NY	34	General Radio Co 275 Massachusetts Ave Cambridge 39 Mass	23	Jackson Electronics Inc 23 Woodcrest Rd West Chester Pa	4
Electronic Processes Corp of Calif 2190 Folsom St San Francisco 10 Calif	6-19	General Railway Signal Co P O Box 600 Rochester NY	9	Jacksonville Metals Plastics Co 575 Davis St Jacksonville Fla	4
Electronics Corp of America 1 Memorial Dr Cambridge 42 Mass	1-3-5-6-7-9-11-14-15- 17-19-23-24-26-28-32-34	Geotechnical Corp 3712 Hazzer Dr Dallas 9 Texas	25	Jacobs Instruments Co 4718 Bethesda Ave Bethesda 14 Md	4-6-20
Electronic Specialty Co 5121 San Fernando Rd Los Angeles 39 Calif	1-10-11-12-14-20-30	Gerat & Co Paul E 486A N Clark St Chicago 40 Ill	30	Jo-Bell Products Inc 5456 W 111 St Oak Lawn Ill	25
Electro Physics Co 297 Broadway New York 7 NY	34-35	Globe Industries Inc 1784 Stanley Ave Dayton 4 Ohio	11	Johnson Corp 805 Wood St Three Rivers Mich	25
Electro Products Labs Inc 4501 N Ravenswood Ave Chicago 40 Ill	6-26	Green Rectifier Co 1-10-30 St Fairlawn NJ	30	Johnson Service Co 507 E Michigan St Milwaukee 1 Wis	22
Electro Systems Inc 1035 Westmaster Ave Alhambra Calif	4-8-11-20	Grinnell Co 260 W Exchange St Providence 1 RI	16-22	Jordan Co 3235 W Hampton Ave Milwaukee 9 Wis	2-3-11-16-17-19-21-33
Electro Vision Lab 41-04 45th St Long Island City 1 NY	1-6-11-34	Guardian Electric Mfg Co 1621 W Walnut St Chicago 12 Ill	25	Kahlenberg Bros 1700 13 St Two Rivers Wis	1
Elision Draft Gage Co 504 W Monroe St Chicago 6 Ill	1-3	Guild Electronics Inc 388 Broadway New York 13 NY	11-26-32	Kahn & Co 541 Windsor St Hartford 1 Conn	11-20-22-29
El-Tronics Inc Penn Ave Mayfield Pa	12-29	Gulton Industries Inc 212 Durham Ave Metuchen NJ	1-13-16-20-23-27	Kearfott Co Inc 1378 Main Ave Clifton NJ	11-20
Emmett Machine & Mfg 445 E Turkeyfoot Lake Rd Akron 19 Ohio	6	Hagan Chemicals & Controls Inc 343 A Ave Pittsburgh 30 Pa	2-3-4-11-16-18-25-31-33	Keckley Co O C 3400 Cleveland St Skokie Ill	16-25-33-50
Engineered Electronics Co 506 E 1 St Santa Ana Calif	4-6-11	Hallamore Electronics Co 8352 Brookhurst Ave Anaheim Calif	1-11-14-15-16-20	Kelsey-Hayes Co 3600 Military Ave Detroit 32 Mich	4-11-16-18
Ensis Equipment Co 431 S Dearborn St Chicago 5 Ill	8-24	Haller Raymond & Brown Circleville Rd State College Pa	20-34	Kieley & Mueller Inc 64 Genung St Middletown NJ	25
Era Eng'g Inc 1009 Montana Ave Santa Monica Calif	20	Hallikainen Instruments 1341 7 St Berkeley 10 Calif	7-16	Kilgen Aircraft Div Kilgen Oran Co 4532 W Florissant Ave St Louis 15 Mo	23
Esa Instrument Co 96 S Washington Ave Berkeley 4 Calif	3-6-7-8-15- 17-19-23-26-32-34	Hamilton Standards Electronics Dept Main St Broad Brook Conn	11	Kollman Instrument Corp Standard Coil Products 80-08 45 Ave Elmhurst 73 NY	20
Farnor Electric Products Co 2300 Washington St Newton Lower Falls 62 Mass	11-34-52- 71-73-74	Hammill Mfg Co 450 W 34 St New York 1 NY	1-2-3-4-5-6-11-18-30	Kurman Electric Co 191 Newel St Brooklyn 22 NY	1-11-32-34
Farnsworth Electronics Co Div I T & T 3702 E Pontiac St Ft Wayne Ind	11-20-24-41	Hansen Co Wm 165 Silverbrook Ave Niles Mich	29	Lamotte Chemical Products Co Chestertown Md	2-33
Fasco Industries Inc 255 N Union St Rochester 2 NY	30	Hanson-Gorrill-Brian 85 Hazel St Glen Cove NY	30	Land-Air Inc Instrument & Electronic Div 2133 Adams Ave San Leandro Calif	11
Fisher Inc J W 6592 Hamilton Ave Pittsburgh 6 Pa	41	Hart Mfg Co 128 Bartholomew Ave Hartford 1 Conn	11	Larson Instrument Co 24 Orchard St Tarrytown NY	6-11
Feedback Controls Inc 880 Main St Waltham 54 Mass	4-20 36-41-46	Havdon Co A W 232 N Elm St Waterbury 20 Conn	11	Lavoie Labs Inc Matawan-Freehold Rd Morganville NJ	11
Fenwal Inc Pleasant St Ashland Mass	1-2-11-14-15-20-25	Hays Corp 742 E 8th St Michigan City Ind	3-16-25	Lear Inc 3171 S Bundy Dr Santa Monica Calif	11-16-18-20-30-36-41-64
Ferrara Inc 8106 W 9 Mile Rd Oak Park 37 Mich	11-25-52-63-71-73-75	H-R Instrument Co American & Bristol Sta Phila Pa	11	Lear Inc 110 Lonia Ave NW Grand Rapids 2 Mich	11
Fields Instrument Div Robertshaw-Fulton Controls Co 2920 N 4 St Philadelphia 33 Pa	5-17-22-26-27-29	Healy-Ruff Co 2255 University Ave St Paul 14 Minn	1-25	Leeds & Northrup Co 4970 Stenton Ave Philadelphia 44 Pa	2-3-5-18-21- 22-25-31-33
Fischer & Porter Co 478 Warmwater Rd Haltersho Pa	1-2-3-7-11-16-17-25	Hewson Co 443 Broad St Newark 2 NJ	1-5-11	Lehigh Valley Electronics Eng'g & Mfg Co 215 S 3 St Allentown Pa	11
Fisher Co Inc Oscar P O Box 426 Newburgh NY	35	Holland Electronics 772 E 53 St Brooklyn NY	11-19-34	Leland Electric Co Aircraft Products Plant 740 E National Rd Vandalia Ohio	11-20-30
Fisher Governor Co Marshalltown Iowa	25	Hoover Electronics Co Instrumentation Div 1122 C San Mateo SE Albuquerque N Mex	11	Lennard Co Inc P M 1081 E 8 St Jacksonville 6 Fla	22
Fisher Pierce Co 170 Pearl St S S Braintree 85 Mass	23-34	Hubbard Scientific Labs 1003 Industrial St Industrial Park Pomona Calif	52-71-72-73-75	Lennard Co P M P O Box 56 Village Sta New York 14 NY	22
Flight Research Inc P O Box 1-F Richmond 1 Va	11-34-35	Hughes Products Hughes Aircraft Co 5340 W 104 St Int'l Airport Sta Los Angeles 45 Calif	4-11	Leslie Co Lyndhurst NJ	25
Fluidyne Eng'g Corp 435 N C St Minneapolis 6 Minn	1-4-11-16-26	Hughes & Phillips 3300 N San Fernando Blvd Burbank Calif	34	Librascope Inc 808 Western Ave Glendale Calif	4-20
Ford Instrument Co Div Sperry Rand Corp 31-10 Thomson Ave Long Island City 1 NY	4-20	Hupp Electronics Co Div Hupp Corp 743 Circle Ave Forest Park Ill	6-9-11-34	Lindly & Co 248 Herricks Rd Mineola NY	34
Foxboro Co Neponset Ave Foxboro Mass	2-5-7-8-11-13-16- 17-18-22-25-27-29-33	Ideal Electric & Mfg Co 300 E 1 St Mansfield Ohio	24-30	Link Aviation Inc Binghamton NY	4
Fox Co Thomas T 95 Summit St Newark NJ	34-52	Illinois Testing Labs Inc 420 N LaSalle St Chicago 10 Ill	21-50	Link-Belt Co Dept EI Prudential Plaza Chicago 1 Ill	46
Franklin Dales Co 180-184 E Mill St Akron 8 Ohio	11-26-28-30	I-L-S Instrument Corp 4525 W 160 St Cleveland 11 Ohio	6	Liquidometer Corp 41-03 36 St Long Island City 1 NY	11
Fries Instrument Div Bendix Aviation Corp 1400 Taylor Ave Baltimore 4 Md	22	Indikon Co 78 Coolidge Hill Rd Watertown 72 Mass	1-11	Liton Industries of Calif 336 N Foothill Rd Beverly Hills Calif	4-11-20
Fuel Watchman Inc 77-29 138 St Flushing 67 NY	1-11	Industrial Control Co 805 Albin Ave Lindenhurst LI NY	11-30	Logeman Co C W 633 Bergen St Brooklyn 38 NY	52
Furnas Electric Co 1000 McKee St Batavia Ill	9-25-30	Industrial Electronic Engineers 3973 Lankersblm Blvd N Hollywood Calif	4-6-11	Lumenite Electronic Co 407 S Dearborn St Chicago 5 Ill	5-11-15-16-17- 23-25-26-29-34
General-American Valve Co P O Box 444 Corona Del Mar Calif	16	Industrial Electronics Inc 8060 Wheeler St Detroit 10 Mich	6-8-11-34	Lunkenheimer Co Beekman St & Waverly Ave Cincinnati 14 Ohio	25

Magnetic Instrument Co 546 Commerce St Thornwood NY	4-7-8-11-16- 20-25-30-31-34		
Maico Co Inc 21 N 3rd St Minneapolis 1 Minn	6-8-11		
Mallory & Co Inc P R 42 S Gray St Indianapolis 6 Ind	11		
Manning Maxwell & Moore Inc Industrial Controls Div Shelter Rock Lane Danbury Conn	1-2-11-16-25-33		
Manning Maxwell & Moore Inc 250 E Main St Stratford Conn	11-15-16		
Maxson Corp W L 475 10 Ave New York 18 NY	16		
Measurement Eng'g Ltd 232 John St 1-2-5-6-7-8-11-13-17-19-21-22- 23-24-25-26-27-29-33-34			
Arnprior Ontario Can Michigan Electronics Inc 854 N Rockwell St Chicago 22 Ill	1		
Micrometrical Mfg Co 345 S Main St Ann Arbor Mich	11-24		
Milgo Electronic Corp 7601 NW 35 Ave Miami 47 Fla	4-11-20		
Minatron Corp Belle Mead 9 NJ	6-8		
Minn-Honeywell Boston Div 1400 Soldiers Field Rd Boston 35 Mass	11-20		
Minn-Honeywell Regulator Co Aeronautical Div 2600 Ridgway Ave Minneapolis 13 Minn	11-20		
Minn-Honeywell Regulator Co Commercial & Residential Divs 2750 S Ave S Minneapolis 8 Minn	1-3-11-15-18-22		
Minn-Honeywell Regulator Co Instruments Div Wayne & Windrim Aves Philadelphia 44 Pa	3-11		
Missouri Research Labs Inc 2109 Locust St St Louis 3 Mo	1		
Molelectric Products Corp Asbury Park NJ	1-6-10-11-26		
Mohawk Business Machines Corp 944 Halsey St Brooklyn 33 NY	1		
Moisture Register Co P O Box 910 Alhambra Calif	29		
Moog Valve Co Proner Airport E Aurora NY	11		
Moore Associates Inc 2828 Spring St Redwood City Calif	1-2-4-11		
Motoresearch Co 1600 Junction Ave Racine Wisc	30		
Multi-Products Co 21470 Coolidge Hwy Oak Park 37 Mich	11		
Mutual Electronics Industries Inc 50 Aleppo St Providence RI	23		
Nagor Associates Inc Littleton Mass	11-24		
National Aircraft Corp 3411 Tulare Ave Burbank Calif	30		
National Bell Corp 6 Lafayette Ave Brooklyn 17 NY	6		
National Instrument Labs Inc 828 Evars St NE Washington DC	34		
Navigation Computer Corp 1621 Snyder Ave Phila Penna	4-6		
Nevada Air Products Co P O Box 2472 Reno Nev	11-20		
Newark Controls Co 15 Ward St Bloomfield NJ	25		
Ningara Electron Labs P O Box 124 Main St Andover NY	2-11-16-25		
North Atlantic Industries Inc 603 Main St Westbury NY	11		
Northeast Electronics Corp Airport Rd Concord NH	11		
North Electric Co 853 S Market St Canton Ohio	1-4-5-11-12-14-23		
Norwood Controls Unit Detroit Controls Div American Standard 934 Washington St Norwood Mass	16-25		
North American Instruments Inc 2420 N Lake St Altadena Calif	16		
Northrop Aircraft Inc 1101 E Broadway Hawthorne Calif	20		
Nuclear Corp of America 400 Park Ave New York 22 NY	7-13-16-25		
Nuclear-Electronics Corp 2632 W Cumberland St Philadelphia 32 Pa	6-11		
Nuclear Products-Erco Div ACF Industries Inc Rivendale Md	4-20		
Nuclear Systems Div Budd Co 2450 Hunting Park Ave Philadelphia 32 Pa	7-8-27		
O'Brien Electric Corp 6514 Santa Monica Blvd Hollywood 38 Calif	1		
Ohmite Mfg Co 3601 Howard St Skokie Ill	30		
Opad Electric Co 69 Murray St New York 7 NY	11		
Otis Elevator Co Electronic Div 35 Ryerson St Brooklyn 5 NY	11-12-14		
Packard Bell Electronics Corp 12333 W Olympic Blvd Los Angeles 64 Calif	4-11-16-20		
Packard Instrument Co P O Box 428 La Grange Ill	6		
Panellit Inc 7401 N Hamlin Ave Skokie Ill	1-2-3-4		
Pantek Co P O Box 212 El Segundo Calif	6-11		
Par Products Corp 602 Colorado Ave Santa Monica Calif	35		
Partlow Corp 211 Campton Rd New Hartford NY	3-15-17-18-21-22		
Patterson Moos Div Universal Winding Co 90-28 Van Wyck Expressway Jamaica 18 NY	1-2-3-14-20		
Pegasus Labs Inc 3690 W 11 Mile Rd Berkley Mich	11-16		
Penn Controls Inc Goshen Ind	3-15-18-22-25		
Penn-East Eng'g Corp Box 240 Kutztown Penna	6-7-11-19		
Perkin-Elmer Corp Main Ave Norwalk Conn	2-14		
Perkin-Elmer Corp Verniatat Div Emerald St Norwalk Conn	20		
Perma-Power Co 3102 N Elston Ave Chicago 18 Ill	9		
Peschel Electronics Inc 13 Garden St New Rochelle NY	11-24		
Phila Scientific Glass Co Box 46C Palesoton Rd Quakertown Pa	1		
Philbrick Researches Inc Gerkertown Pa 230 Congress St Boston 10 Mass	4-11		
Philco Corp Tioga & C Sts Philadelphia 24 Pa	20		
Philco Corp Govt & Industrial Div 4700 Wissahickon Ave Philadelphia 44 Pa	4-20		
Phoenix Precision Instrument Co 3803 N 5 St Philadelphia 40 Pa	1-2-7-17-34-35		
Photobell Co 43 Vesey St 15-16-17-19-21-22-23-24-25- New York 7 NY	26-27-29-32-33-34-35		
Photo-Crystals 15 S 1st St Geneva Ill	1-3-6-15-22-34-43-74		
Photographic Analysis Inc 182-3 Ventura Blvd N Hollywood Calif	4-8-15-17-26		
Piezo Products Co Whitney St Sherborn Mass	1-11-15-20		
Pioneer Patents & Products Co 3720 N New England Ave Chicago 34 Ill	11-26		
Polarad Electronics Corp 45-20 34 St Long Island City NY	11-33		
Potter Aeronautical Corp Route 22 Union NJ	16		
Potter Instrument Co Sunnyside Blvd 4-6-7-8-11-17-19-26- Plainview NY	27-28-30-32-34		
Power Supplies Inc 1005 Olive St Highland Ill	11-30		
Precision Scientific Co 3737 W Cortland St Chicago 47 Ill	2-3-5-17-21-29-33		
Precision Thermometer & Instrument Co 1434 Brandywine St Philadelphia 30 Pa	7		
Pye Canada Ltd 82 Northline Rd Toronto 16 Ontario Canada	2-5-6-11-14-33		
Quality Control Corp 401 Broadway New York 13 NY	24		
Quaric Controllers 381 N Main St Sharon Mass	2-4-5-11-17-33		
Radio City Products Co Centre & Glendale Sts Easton Pa	1-20		
Radio Corp of America Commercial Electronic Products Front & Cooper Sts Camden NJ	4-6-8-11-18-24-27-34		
Radionics Inc P O Box 186 Cockeyville Md	14		
Rahn Instruments Inc 237 Lafayette St New York 12 NY	20		
Ramo-Woodridge Corp Electronic Instrumentation Div P O Box 8405 Denver 10 Colo	20-25		
Ransom Research Box 269 323 W 7 St San Pedro Calif	4-6-20-84		
Rauland-Horz Corp 3535 W Addison St Chicago 18 Ill	1		
Rayco Electronic Mfg Inc 11116 Cumpston St N Hollywood Calif	11		
Reeves Instrument Corp Roosevelt Field Garden City NY	4-11-20		
Reliance Electric and Eng'g Co 24701 Euclid Ave Cleveland 17 Ohio	2-4-10-11-16-17-25-36		
Renublic Aviation Corp Farminedale LI NY	33-34		
Republic Flow Meters Co 2240 Diversey Pkwy Chicago 47 Ill	3		
Research Electronics Lab Roslyn Pa	11		
Research Industrial Lab of Electronics Roslyn Pa	11		
Revere Corp of America N Colony Rd Wallingford Conn	16-25		
Rich Electronics Inc 212 NW 8 Ave Miami 86 Fla	20-84		
Ripley Co 1 Factory St Middletown Conn	11		
Robertshaw-Fulton Controls Co Fulton Sylphon Div P O Box 400 Knoxville 1 Tenn	1-16-17-18-25-26		
Robinette Co W C 802 Fair Oaks Ave S Pasadena Calif	11-80		
Robotron Corp 21800 W 8 Mile Rd Detroit 19 Mich	11		
Ronan & Kunsz 502 E Kalamazoo Ave Marshall Mich	9		
Royal McBee Corp Westchester Ave Port Chester NY	4		
Roy Co Milton 1300 E Mermaid La Phila Penna	2-16-25-33		
Rue Products 1628 Venice Blvd Venice Calif	11		
Russell & Stoll Co Inc 125 Harclay St New York 7 NY	1		
Seaco Controls Inc P O Box 41 Cooper St Delanco NJ	1-3-11-14-15		
Scantlin Electronics Inc 11624 W Pico Blvd Los Angeles 64 Calif	4-11		
Schrack Electrical Sales Corp 1100 Madison Ave New York 28 NY	28-30		
Sciaky Bros 4815 W 67 St Chicago 38 Ill	11		
Scientific Eng'g Lab 2436 Sacramento St Berkeley Calif	1		
Seaboard Electric Products Corp 417 Canal St New York 13 NY	1		
Security Controls Inc 503 Franklin St Huffalo 2 NY	1-6-7-11-16-26-29		
Seneca Falls Machine Co 314 Fall St Seneca Falls NY	11-27		
Sensory Inc 10 New St Morristown NJ	1-2-3-4-11-13-24-26-28-32		
Serdex Inc Bowdoin Sq Boston 14 Mass	22		
Servo Corp of America P O Box 469 Port Chester NY	21-34		
Servomechanisms Inc 12500 Aviation Blvd Hawthorne Calif	4-11-20-25		
Servo Systems Co 55 Meeker Ave Newark 12 NJ	11		
Servoflex Products Co 1066 Goffe Rd Hawthorne NJ	30		
Shand & Jurs Co 2600 8th St Berkeley 10 Calif	1-11-25-30		
Sightmaster Corp 50 Aleppo St Providence RI	23		
Sigmadyne of Conn P O Box 469 Port Chester NY	21-34		
Simmonds Aeroaccessories Inc 105 White Plains Rd Tarrytown NY	25		
Simplex Valve & Meter Co 7 E Orange St Lancaster Pa	16-25		
Skiatron Electronics & TV Corp 180 Varick St New York 14 NY	24-34-35		
Slaughter Co Young and College Sts Piqua 9 Ohio	11		
Solartron Electronic Group Ltd Queens Rd Thames Ditton Surrey England	4-6-11-17-19-25-26-33-34		
Soroban Eng'g Inc P O Box 1717 Melbourne Fla	1		
Southern Instruments Computer Div Pringle Rd Camberly Surrey England	2		
Southwestern Industrial Electronics Co 2831 Post Oak Rd Houston 19 Texas	4-6-11-16-18-25		
Spartan Control Systems Div Sparks-Withington Co 2301 E Michigan Ave Jackson Mich	1-2-6-16-17-25-26		
Specialties Inc Skunks Misery Rd Snyssett LI NY	34		
Sperry Gyroscope Co Sunnyside Dev Center 294 Commercial St Sunnyside Calif	20		
Sperry Gyroscope Co Marine Div Roosevelt Field Mineola NY	4-5-11		
Springfield Enterprises 138-17 Springfield Blvd Springfield Gardens 13 NY	34		
Standard Electronics Research Corp 2 E End Ave New York 21 NY	6-8-11-13-24-27		
Standard Instrument Corp 657 Broadway New York 12 NY	1-5-6-7-8- 11-14-19-24-26-34		
Stanley Aviation Corp 2601 Dallas St Denver Colo	6-11-26		
Stewart Instrument Co 6507 Grand River Detroit 8 Mich	11		
Stewart & Stevenson Service 4516 Harrisburgh Blvd Houston 1 Texas	30		
Strumberg-Carlson Div General Dynamics Corp 100 Carlson Rd Rochester 3 NY	30		
Suncoast Instruments Div Milton Roy Co 6301 49th St St Petersburg Fla	2-16-25-33		
Superior Electric Co 83 Laurel St Bristol Conn	11-23		
Systron Corp 2055 Concord Blvd Concord Calif	11		
Taffet Radio & TV Co 27-05 Brooklyn-Queens Expressway W Woodside 77 NY	11		
Taller & Cooper 75 Front St Brooklyn 1 NY	1-2-6-7-11-18		
Taurus Corp 8 Corvell St Lambertville NJ	4		
Taylor Instruments Companies 95 Ames St Rochester 1 NY	1-2-3-16-17-21- 22-25-28-29-33		
Teletro Industries Corp 85-18 87 St Long Island City 1 NY	1-11-20		

Telectron Co Div of Elliot & Evans
Bldg 9 Broward International Airport
Ft Lauderdale Fla 9-11

Tele-Prompter Corp
311 W 43 St New York 36 NY 11

Teletronic Labs Inc
1835 W Rosecrans Ave
Gardena Calif 11-26

Televio Corp
1415 Golf Rd Des Plaines Ill 11

Thompson Products Inc Electronics Div
2196 Clarkwood Rd
Cleveland 3 Ohio 11-20

Tipptonic Inc
68 Olive St
Chagrin Falls Ohio 1-2-6-11-12-19-
21-22-25-28-30-31

Touch-Plate Mfg Corp
P O Box 1970
Long Beach 1 Calif 23

Traceflab
1601 Trapelo Rd
Waltham 54 Mass 1-2-7-8-13-16-25-27

Trans Electronics Inc
7349 Canoga Ave
Canoga Park Calif 1-11

Trimount Instrument Co
3119 W Lake St Chicago 12 Ill 25

Tri-Tronics Co
2607 St Charles Rd
Bellwood Ill 5-11-15-25-26-34

Trott Electronics Inc
412 Smith St
Rochester 6 NY 1-6-7-11-19-24-34

Tullamore Electronics Lab
6055 S Ashland Ave
Chicago 36 Ill 8

TV Specialty Co
350 W 31 St New York 1 NY 35

Ultradyne Eng'g Labs
P O Box 3508 Albuquerque NM 20

Union Switch & Signal Div
1799 1807 Broadway Ave
Swissvale P O Pittsburgh * Pa 9-11

United Aircraft Products Inc
1116 Bolander Ave
Dayton 8 Ohio 16

United Control Corp
4540 Union Bay Pl Seattle 5 Wash 23

United Electric Controls Co
85 School St
Watertown 72 Mass 1-3-17-21-
22-25-26-30

United Transformer Corp
150 Varick St New York 13 NY 58-68

Univac Inc
108 Marine St Farmingdale NY 1-11-24

U S Control Inc
181 Grand St
New York 13 NY 1-2-5-6-8-17-19-21-23-
24-25-26-28-30-32-34

Valandy Electronics Corp
61-35 166 St Flushing 68 NY 1

Vapor Recovery Systems Co
2820 N Alameda St
Compton Calif 18-25

Vavo Mfg Co
2201 Walnut St Garland Texas 11-20-30

Vectrol Eng'g Inc
P O Box 1089
Stamford Conn 11-25-30-34

Vickers Inc Electric Products Div
1887 Locust St
St Louis 3 Mo 1-5-20-21-30

Victory Eng'g Co
121 Springfield Rd
Union NJ 1-11-25-31

Vitro Corp of America
261 Madison Ave New York 16 NY 11

Wacline Inc
35 S St Clair St
Columbus 2 Ohio 11-20-30

Waldorf Instrument Co Div F C Huyck
& Sons Park Ave
Huntington Station NY 13-16-20-29

Walkirt Co
141 W Hazel St
Inglewood 3 Calif 4-6-11-34

Wallson Associates Ltd
963 Freelinghysen Ave
Newark 12 NJ 11-34

Ward Leonard Electric Co
Mt Vernon NY 30-35

Warner Electric Brake Clutch Co
449 Gardner St St Reinit Ill 11

Warner & Swasey Corp
34 W 33 St New York 1 NY 8-11-19-24-27

Warren Mfg Co
Newtown Rd Littleton Mass 30

Warrick Co Charles F
1964 W 11 Mile Rd
Berkley Mich 5-25

Waugh Eng'g Co
7422 Burnet Ave Van Nuys Calif 16

Weltronic Co
19500 W 8 Mile Rd
Detroit 19 Mich 6-11-30

West Coast Research Corp
2371 1/2 Westwood Blvd
Los Angeles 64 Calif 1-7-11-20-30

Westinghouse Electric Corp
P O Box 468
Pittsburgh 30 Pa 25-26-27-28-30-31

Weston Electrical Instrument Corp
614 Freylichgysen Ave
Newark 12 NJ 22-23-34-35

Winder Aircraft Corp of Fla
P O Box 2397 Drane Fld
Lakeland Fla 20-26-28

Winterburn Mfg Co
11 Whittemore St
Putnam Conn 1-9-16-26-28-30

Worner Electronic Devices
Rankin Ill 1-3-6-23-24-25-34

Wright Equipment Co
128 N Main St
Milltown NJ 1-11-15-20

22A—CONTROL EQUIPMENT, INDUSTRIAL

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Abrams Instrument Corp
606 E Shawnee St
Lansing 1 Mich 32-68-71-73-78

Accurate Eng'g Co
2005 Blue Island Ave
Chicago 8 Ill 41-46

AC Electronics Div GMC
1925 E Kenilworth Pl
Milwaukee 1 Wis 64

Aero Instrument Co Inc
172 Pacific St Brooklyn NY 36-40-43-50

Acoustica Associates
26 Windsor Ave Mineola NY 55

Acromag Inc
22519 Telegraph Rd
Detroit 41 Mich 41-50-51

A & D Electronics Inc
Mt Pascal Rd
Hackettstown NJ 46

Advance Electronics Inc
94 Silas Deane Hwy
Rocky Hill 9 Conn 50

Advanced Instruments
45 Kenneth St
Newton Highlands 61 Mass 45-50

Advance Products
59 Broadway
North Haven Conn 52-70-71-73-75

Advance Industries Inc
640 Memorial Dr
Cambridge 39 Mass 36-41

Advance Instrument Corp
1709 F St Bldg 10
Montreal Que Canada 70-71-72-73-75

AeroFex Labs
34-06 Skillman Ave
Long Island City 1 NY 64

Aero Instrument Co
11423 Vanowen St N Hollywood Calif 70-73

Aeromatic Eng'g Products Ltd
5257 Queen Mary Rd
Montreal Que Canada 39-46-48-50-52-
70-71-72-73-75

Aerophysics Dev Corp Sub Curtis-Wright Corp
P O Box 689
Santa Barbara Calif 41-49-55

Aerotron Associates
Box 419 Concord NH 63

Airborne Accessories Corp
1414 Chestnut Ave
Hillside 5 NJ 36-38-41-46-53-58-67-68

Airborne Instruments Lab Inc
160 Old Country Rd Mineola NY 48

AirResearch Mfg Co Div Garrett Corp
9851 Sepulveda Blvd
Los Angeles 45 Calif 36-41-46

Airmatic Valve Inc
7314 Associate Ave
Cleveland 9 Ohio 38-46-52-56-69-75

Airmec Ltd
High Wycombe 36-43-50-52-58-63-
Buckinghamshire England 68-70-73-74

Airtronics Inc
5522 Darsey Lane Bethesda Md 32-75

Alcar Instruments Inc
17 Industrial Ave Little Ferry NJ 55

Allegany Instrument Co
1091 Wills Mountain Cumberland Md 47

Allen-Bradley Co
136 W Greenfield Ave
Milwaukee 4 Wis 38-46-50-52-58

Allied Control Co
2 East End Ave New York 21 NY 69

Allis Co Louis
427 E Stewart St Milwaukee 1 Wis 55

American Electronic Laboratories
121 N 7 St Philadelphia 4 Pa 49

American Electronic Inc Instrument Div
9503 W Jefferson Blvd Culver City Calif 41

American Gyro Corp
3030 Nebraska Ave Santa Monica Calif 64

American Machine & Foundry Co
Defense Products Group
1101 N Royal St Alexandria Va 49-58

American Rectifier Corp
95 Lafayette St
New York 13 NY 58-67-69

American Research Products
Rox 185 Sorrento Fla 42

American Searchlight Corp
38 W 53 St New York NY 50

Analogic Control Co
39 Roselle St Mineola NY 41-46

Arlin Products Inc
13541 Auburn Ave 36-41-48-51-
Detroit 23 Mich 52-53-60-63-70-75

Arma Div American Bosch Arms Corp
Garden City NY 41-49-64

Arnoux Corp
11924 W Washington Blvd
Los Angeles 66 Calif 50

Askania Regulator Co
240 E Ontario St
Chicago 11 Ill 36-38-40-41-46

Assembly Products Inc
75 Wilson Mills Rd
Chesterton Ohio 36-37-38-50-56

Atomatic Valve Co
545 W Abbott St Indianapolis 25 Ind 69

Atlas Electric Products Co
P O Box 1581 Erie Pa 50

Audicon Electronics Inc
216 Lyon St Paterson 4 NJ 42-55

Automatic Control Co
995 University Ave
St Paul 4 Minn 34-49

Automation Inc
212 Worcester St
Wellesley Hills 82 Mass 52

Automation Instruments Inc
Industrial Pk Boulder Colo 55

Automation Management Inc
Adams St Westboro Mass 52-63

Autotron Inc
3629 N Vermilion St
Danville Ill 40-44-52-74

Autron Eng Inc
1254 W 6 St
Los Angeles 17 Calif 50-63

Axler Associates Inc
102-42 43 Ave New York 68 NY 41-13

Hailey Meter Co
1050 Ivanhoe Rd
Cleveland 10 Ohio 36-38-44-46-49-50-56

Baird-Atomic Inc
38 University Rd
Cambridge 38 Mass 63-70-72

Baldwin-Lima-Hamilton Corp
Electronics & Instrumentation Div
42 Fourth Ave
Waltham 54 Mass 38-47-51-53-60

Halteau Electric Corp
New and Meadow Sts Stamford Conn 77

Barber-Colman Co
1800 Rock St Rockford Ill 50-52

Barkeley & Dexter Laboratories
50 Frankfort St Fitchburg Mass 63

Barlowe Electronics
392 Wantagh Ave Bethpage NY 60

Barb-Atomic Inc
209 25th St Brooklyn 32 NY 50

Barrett Electronics Corp
630 Dundee Rd Northbrook Ill 36-54-63

Barton Electronics Inc
1000 Farmington Ave W
Hartford 7 Conn 52-71-73-75

Basic Controls Co
1714 Westwood Blvd 42-43-44-50-
Los Angeles 24 Calif 70-71-72-73-74-75

Bayside Timers
45-25 162 St 52-61-63-70-
Flushing 58 NY 71-72-73-75

Beckman/Berkeley Div
Beckman Instruments Inc 63-70-
2200 Wright Ave Richmond 3 Calif 73-74

Beckman Instruments Inc Data & Control
Systems Scientific Instrument Div
325 N Muller Ave Anaheim Calif 70-73

Beckman Instruments Inc Process Instruments Div 2600 Fullerton Rd Fullerton Calif	44	Consolidated Products Inc Broward Ind Airport Ft Lauderdale Fla	36	Electric Eye Equipment Co 1948 E Fairchild St Danville Ill	60
Belfab Corp 11 Ramah Circle Agawam Mass	38-56	Continental X-Ray Corp 1536 N Clybourn Ave Chicago 10 Ill	62-77	Electric Machinery Mfg Co 800 Central Ave Minneapolis 13 Minn	46
Bendix Aviation Corp Red Bank Div Rt 35 Eatontown NJ	58-67-68	Control Data Corp 501 Park Ave Minneapolis 15 Minn	63-64	Electric Regulator Corp Pearl St Norwalk Conn	37-46-58-67-68
Bendix Aviation Corp Cincinnati Div 2130 Wesson Rd Cincinnati 8 Ohio	39-45	Controlled Atmosphere Enclosures Corp 230-11 141 Ave	43-44-57	Electro-Devices Inc 4 Godwin Ave Paterson 1 NJ	46-51
Bergen Labs 247 Crooks Ave Clifton NJ	53-73	Springfield Gardens LI NY 9555 Soreng Ave	38-50-52-69-72-73-75	Electro Instrument Inc Aero Ct San Diego Calif	70-72-75
Berkeley Crystal Co 1740 University Ave Berkeley 8 Calif	50	Schiller Park Ill 115 E Arbor Vitae St Inglewood 1 Calif	41	Electrola Inc 1617 N Clark St Chicago 26 Ill	36-41
Berno Engineering Corp 2320 S Tibbs Ave Indianapolis 41 Ind	42-52-71-75	Control Specialty Corp 1615 Spring Houston 6 Texas	49-52	Electro-Mechanical Div General Riveters Inc 785 Hertel Ave Buffalo 7 NY	41-51-53
B I F Industries 345 Harria Ave Providence RI	49	Cook Co Frank H 36 S Santa Fe Dr Denver 23 Colo	36-41	Electronic Associates Inc Long Branch NJ	41
Blue M Electric Co 128 S Chatham St Blue Island Ill	50	Cook Electric Co 2700 Southport Ave Chicago 14 Ill	38-50-52-56-76	Electronic Control Corp 153 E Forest Ave Detroit 7 Mich	37-43-44-50-52-53-63-73
Bogue Electric Mfg Co 52 Iowa Ave Paterson 3 NJ	37-41-46-50-58-67-68	Cooper Co D C 1467 S Michigan Ave Chicago 5 Ill	50-52	Electronic Control Systems 2231 Barrington Ave Los Angeles 64 Calif	86-49
Bosch Inc M Ten 80 Wheeler Ave Pleasantville NY	41-64	Crescent Eng'g & Research Co 5440 N Peck Rd El Monte Calif	36-38-41-47-58-60	Electronics Eng'g Co of Calif 1601 E Chestnut St Santa Ana Calif	49-52
Boulton Instrument Corp 101 St Pelham NY	63	Cunningham Son & Co James 33 Litchfield St Rochester 8 NY	49-63-70-71-75	Electronic Machine Parts Inc 204 Lafayette St New York 12 NY	46
Bowmar Instrument Corp 8000 Bluffton Rd Ft Wayne Ind	41-46-63	Curtiss-Wright Corp Electronica Div 631 Central Ave Carlstadt NJ	36-50-51-58-67-68	Electronic Processes Corp of Calif 2190 Fulcom St San Francisco 10 Calif	50-60-75
Branson Corp 41 S Jefferson Rd Whippany NJ	52	Dallons Labs 5066 Santa Monica Blvd Los Angeles 29 Calif	65	Electronic Products Div Post Machinery 140 Elliot St Beverly Mass	52-74-75
Briggs Associates 10 DeKalb St Norristown Pa	36-41-48-49-52-61-67	Dalmo Victor Co Div Textron Inc 1515 Industrial Way Belmont Calif	41-69	Electronics Corp of America 1 Memorial Dr Cambridge 42 Mass	36-38-40-42-44-50-52-61-63-69-70-73-74
Bristol Co P O Box 1790 El Waterbury Conn	45-46-47-49-50-52-56-57-59-70-71-72-73-75	Datsacan 48 Mohr Rd Little Falls NJ	58-68-73	Electronic Specialty Co 7121 San Fernando Rd Los Angeles 39 Calif	38-41-46-50-52-54-67-68-69-71-72-73-75
Brooke Eng'g Co 4517 Wayne Ave Philadelphia 44 Pa	48-44	Daven Co Route 10 Livingston NJ	42-49-53	Electro Physics Co 287 Broadway New York 7 NY	53
Brooks Rotameter Co P O Box 432 Lansdale Pa	45	Davenport Mfg Co 1715 N Ashland Ave Chicago 22 Ill	63-67-68-73-74	Electro Products Labs Inc 4501 N Ravenswood Ave Chicago 40 Ill	36-46-52
Burroughs Corp Electronic Instruments Div 1209 Vine St Philadelphia 7 Pa	63	Daystrom Pacific Corp 9320 Lincoln Blvd Los Angeles Calif	64-73	Electro-Pulse Inc 11861 Teale St Culver City Calif	73
Butcher Co L H 3628 E Olympic Blvd Los Angeles Calif	58-67-68-71-73	Daytronic Corp 216 E Main St Dayton 2 Ohio	36-38-47-51-53-60	Electro Systems Inc 1085 Westminster Ave Alhambra Calif	41
Cable Electric Products 234 Daboll St Providence 7 RI	42	Defender Instrument & Regulator Co Body III New York 16 NY	36-38-43-50-56	Electro Vision Lab 41-08 45th St Long Island City 1 NY	41-42
Canadian Applied Research Ltd 1500 O'Connor Dr Toronto 16 Can	52-73	De Flores Co 116 E 80 St Cleveland 9 Ohio	41-46-48-49-55-70-71-72-73-74-75	Elfa Instrument Center 55 Reale St New York 7 NY	50
Canadian Aviation Electronics Ltd 6214 Cote de Liesse Rd St Laurent Quebec Canada	33-41-47-64	Deitz Co S J 9 E Wesley St Hackensack NJ	86-40-52-63-70-73-74	Ellison Draft Gauge Co 548 W Monroe St Chicago 6 Ill	39-56
Canadian Curtis-Wright Ltd 1980 Sherbrooke St W Montreal Que Canada	45	Deltron Inc 2905 N Leithgow St Philadelphia 33 Pa	50	Emmett Machine & Mfg 445 E Turkeyfoot Lake Rd Akron 19 Ohio	39-50-52-71-75
Cardinal Instrumentation Corp 4201 Redwood Ave Los Angeles 66 Calif	49-50	Denison Eng'g Div American Brake Shoe 1160 Dublin Rd Columbus 16 Ohio	38-41-69	Engineered Electronics Co 506 E 1 St Santa Ana Calif	52-63-68-70
Cash Valve Mfg Corp A W P O Box 191 Decatur Ill	38-56-61	Designers For Industry 4241 Fulton Pkwy Cleveland 9 Ohio	41-46-48-49-55-70-71-72-73-74-75	Engineered Magnetics Div Gulton Industries Inc 12030 Cerise Ave Hawthorne Calif	67-68
C R C Electronics Co 2601 N Howard St Philadelphia 33 Pa	69	Detect-O-Ray Co 2622 N Halsted St Chicago 14 Ill	48-74	Engis Equipment Co 431 S Dearborn St Chicago 6 Ill	43
CDC Control Services Inc 404 S Warminster Rd Hatboro Pa	36-37-41-50-53-60	Devoe Eng'g Inc P O Box 387 Caldwell NJ	49-50-51-52	Era Eng'g Inc 1000 Montana Ave Santa Monica Calif	52-75
Centralab Div Globe-Union Inc 900 E Keefe Ave Milwaukee 1 Wis	59	Devol Research Co Brookside Dr Greenwich Conn	36-41	Erie Resistor Corp 644 W 12 St Erie 6 Pa	70-71-72-73
Central Scientific Co of Calif 1640 Martin Ave Santa Clara Calif	56-72-73	Dial Products Co 9 Ave E Bayonne NJ	51-53	Esa Instrument Co 96 S Washington Ave Bergenfield NJ	40-43-44-45-46-51-52-60-63
Centronix Inc 34 Oleander St Cocoa Fla	49	Diets Co Henry G 12-16 Astoria Blvd Long Island City 2 NY	38-52-56-57-71-72-78-75	Ewald Instruments Route 7D Kent Conn	61
Century Coil Corp 1634 N Clybourn Ave Chicago 10 Ill	62-77	Dittmore-Freimuth Corp 2517 E Norwich St Milwaukee 7 Wis	63	Farrand Controls Inc 4401 Bronx Blvd New York 70 NY	38-41
CG Electronics Corp 1500 Central St Albuquerque New Mex	49	Dry Screen Process Inc 1016 Madison Ave Pittsburgh 12 Pa	71	Federal Inc Pleasant St Ashland Mass	4160
Chatham Controls Corp 33 River St Chatham NJ	50	Dunlap Electronics 764 9 St Des Moines 14 Iowa	52-63-70-72-73	Fischer & Porter Co 478 Warminster Rd Hatboro Pa	39-43-46-50-56
Chrono-Loe Corp P O Box 4587 Phila 31 Pa	52-70-71-75	Dynac Inc 395 Page Mill Rd Palo Alto Calif	49	Fisher Governor Co Marshalltown Iowa	38
Cinema-Television Ltd Worsley Bridge Rd Lower Sydenham London S E 26 England	58-63-68-70-72-73-74-75	Dynalysis Development Labs Inc 11941 Wilshire Blvd Los Angeles 25 Calif	68	Fisher Pierce Co 170 Pearl St SS Braintree 46 Mass	52-13-75
Clark Controller Co 1146 E 152 St Cleveland 10 Ohio	58-61-67-68-69-73	Dynatomic Div Eaton Mfg Co 3307 14 Ave Kenosha Wis	46-51-53	Flight Research Inc P O Box 1-F Richmond 1 Va	36
Clark Electronic Labs Box 165 Palm Springs Calif	38-42-46-51-56-60	Dynamic Instrument Corp 59 New York Ave Westbury NY	41-46	Fluidyne Eng'g Corp 425 N 7 St Minneapolis 6 Minn	41-47
Cleveland Instrument Co 735 Carnegie Ave Cleveland 15 Ohio	86-48	Dynamics Research Associates Div Universal Match Corp P O Box 5841 Ferguson 21 Mo	36-41-45-50-51-52-58	Forbes & Wagner Inc 348 Central Ave Silver Creek NY	46
Comas Instrument Co 66-11 99 St Forest Hills 74 NY	49	Dynapar Corp 5150 Church St Skokholm Ill	86-46-52-59-63-70-78-74	Ford Instrument Co Div Sperry Rand Corp 31-10 Thomson Ave Long Island City 1 NY	41
Compact Controls Co 1635 N Holsted St Chicago 14 Ill	52-78-75	Engle Signal Corp 202 20 St Moline Ill	52-63-70-71-72-73-75	Foster Eng'g Co 835 Lehigh Ave Union NJ	38-60
Conn Telephone & Electric Corp 70 Britannia St Meriden Conn	41	Eastern Industries Inc 100 Skiff St Hamden 14 Conn	36-38-41-50-54	Photo-Video Labs Inc 25 Amity St Little Falls NJ	70
Conobow Corp 2100 Arch St Philadelphia 3 Pa	36-28-56	Eclipse Fuel Eng'g Co 1100 Ruchanan Rockford Ill	38-43-50-69	Foxboro Co Neponset Ave Foxboro Mass	38-45-46-47-49-50-53-56-59-60
Consolidated Avionics Corp 800 Shams Dr Westbury NY	70-71-72-73-75	Eclipse-Pioneer Div Bendix Aviation Corp Teterboro NJ	41-64	Franklin Dales Co 180-184 F Mill St Akron 8 Ohio	50
Consolidated Controls Corp 4 Durant Ave Bethel Conn	38-41-50-56	Edison Industries Thomas A Instrument Div McGraw-Edison Co 5 Lakeside Ave W Orange NJ	41-50-76	Fredericks Co Geo F Bethays Pa	38-56
Consolidated Electrodynamics Corp 300 N Sierra Madre Villa Pasadena Calif	38-56	Eisler Eng'g Co 750 S 13 St Newark 8 NJ	61	Fuel Watchman Inc 77-29 138 St Flushing 67 NY	43-44-50-52-74
		Electrical Communications Inc 755 Clementina St San Francisco 3 Calif	41-42-49-54	Furnas Electric Co 1000 McKee St Batavia Ill	34
		Electrical & Physical Instrument Corp 42-19 27 St Long Island City 1 NY	63	Gaertner Scientific Corp 1250 Wrightwood Ave Chicago 14 Ill	72
		Electric Boat Div General Dynamics Eastern Point Rd Groton Conn	41	Gates Radio Co 123 Hampshire St Quincy Ill	63
				General Communication Co 677 Beacon St Boston 15 Mass	45

General Control Co 1200 Soldiers Field Rd Boston 34 Mass	62-71-72-73-75	Hupp Instrumentation Div Erie-Pacific 12932 S Weber Way Hawthorne Calif	70-72	Magnetic Instrument Co 646 Commerce St Thornwood NY	36-38-41-46-49-58-63-72-73
General Controls Co 901 Allen Ave Glendale 1 Calif	35-38-41-50-52-55-57-58- 63-66-68-69-71-73-75	I-L-S Instrument Corp 4525 W 160 St Cleveland 11 Ohio	52	Magnetic Research Corp 3160 W El Segundo Blvd Hawthorne Calif	36-58-68
General Electric Co Apparatus Sls Div 1 River Rd Schenectady 5 NY	35-38-39-40-41-43-50-52-53- 56-58-61-64-70-71-73-74-75	Indikon Co 76 Coolidge Hill Rd Watertown 72 Mass	38-41-50	Maico Co Inc 21 N 3rd St Minneapolis 1 Minn	36
General Electric Co Industry Control Dept P O Box 2488 Roanoke Va	39-46-58	Industrial Control Co 805 Albin Ave Lindenhurst LI NY	36-41	Mallory & Co Inc P R 42 S Gray St Indianapolis 6 Ind	52-59-73-75
General Electric Co Specialty Control Dept P O Box 812 Waynesboro Va	36-40-44-46-52-55-58-74	Industrial Electronic Engineers 3973 Lankershim Blvd N Hollywood Calif	63-70	Mandrel Industrial Instruments Div Mandrel Industries Inc 5134 Glenmont Dr Houston Texas	41
General Electric Co X-Ray Dept 485 Electric Ave Milwaukee 1 Wisc	62-73-75-77	Industrial Electronics Inc 8060 Wheeler St Detroit 10 Mich	41	Manning Maxwell & Moore Inc Industrial Controls Div Shelter Rock Lane Danbury Conn	37-38-47-50-66-58
General Radio Co 275 Massachusetts Ave Cambridge 39 Mass	46-58	Industrial Timer Corp 1407 McCarter Hwy Newark 4 NJ	52-62-63-70-71-73-75	Manning Maxwell & Moore Inc 250 E Main St Stratford Conn	38-47-50-56-60
General Railway Signal Co P O Box 600 Rochester NY	42-49-55-73-75	Industrial Winding Machinery Co 120 Wall St New York 5 NY	63	Manostat Corp 20-26 N Moore St New York 13 NY	38-56
General RF Fittings Inc 702 Beacon St Boston 15 Mass	65	Inco Co Div Harry Controls Hollis St Groton Mass	46	Marconi Instruments Ltd 111 Cedar Lane Englewood NJ	63
General Scientific Equipment Co 7516 Limekiln Pike Phila 30 Pa	60	Inaul-R-Electronics 1369 Industrial Rd San Carlos Calif	43-44-54	Marvel-Schebler Products Div Borg Warner Corp Box 863 Decatur Ill	41
Gerlyn Eng'g Co 2151 N Damen Ave Chicago 47 Ill	47-48-51-53	International Business Machines Corp 590 Madison Ave New York 23 NY	52	Maxson Instruments Div W L Maxson Corp 47-37 Austell Pl Long Island City 1 NY	58-68
Gerat & Co Paul E 48-54 N Clark St Chicago 40 Ill	36-41-47-49-50- 51-58-67-68	International Resistance Co 401 N Broad St Philadelphia 3 Pa	69	Measurement Eng'g Ltd 232 John St Ann Arbor Ontario Can	63-70-72-73-74-75-76
Giannini & Co Inc G M Dates Div 1307 S Myrtle Ave Monrovia Calif	36-41	I Q Industries 1714 Westwood Blvd Los Angeles 24 Calif	42-45-44-50-70- 71-72-73-74-75	Mechanical Industries Prods Co 217 Ash St Akron 8 Ohio	50
Giannini & Co G M 918 E Green St Pasadena Calif	38-64	Isotope Products 1711 Elmwood Ave Buffalo 7 NY	45-62	Metals & Controls Corp Spencer Thermostat Div 48 Forest St Attleboro Mass	50
Hamilton Standard Electronics Dept Main St Broad Brook Conn	50	Jack-Evans Mfg Co 4427 Geraldine Ave St Louis 15 Mo	69	Michigan Electronics Inc 854 N Rockwell St Chicago 22 Ill	52
Globe Industries Inc 1784 Stanley Ave Dayton 4 Ohio	41-53-64-73-75	Jacobus Instrument Co 4718 Bethesda Ave Bethesda 14 Md	52-63-70	Micrometrical Mfg Co 845 S Main St Ann Arbor Mich	48
Good Electronics Corp 17-19 Brooks St Newton 58 Mass	47	Janco Corp 3111 Winona Ave Burbank Calif	72	Mid-Century Instrument Corp 611 Broadway New York 12 NY	41
Gordon Enterprises 5362 N Cahuenga Blvd N Hollywood Calif	70-72-73-75	Johnson Service Co 507 E Michigan St Milwaukee 1 Wisc	60	Milgo Electronic Corp 7601 N W 37 Ave Miami 47 Fla	36-41-42-52-63-75
Gorrell & Gorrell 336 Old Hook Rd Westwood NJ	70-71-72	Jordan Co 3235 W Hampton Ave Milwaukee 9 Wisc	36-37-38-40-41- 46-49-50-51-60	Miller-Harris Instrument Co 601 E Ogden Ave Milwaukee 2 Wisc	52-62-71-72-73-75
Greenleaf Mfg Co Div Mandel Industries 7811 Maplewood Industrial Ct St Louis 17 Mo	64	Kahn & Co 541 Windsor St Hartford 1 Conn	46-52-61	Minatron Corp Relle Mead 9 NJ	36
Green Rectifier Co 1-10 30 St Fairlawn NJ	38-46-56-58-68	Kearfott Co Inc 1378 Main Ave Clifton NJ	36-38-39-40-41-50-51-64	Minn-Honeywell Boston Div 1400 Soldiers Field Rd Boston 35 Mass	36-41-50-64
Guardian Electric Mfg Co 1621 W Walnut St Chicago 12 Ill	69	Kelsey-Hayes Co 3600 Military Ave Detroit 32 Mich	88-41-52-75	Minn-Honeywell Regulator Co Aeronautical Div 2600 Ridgeway Ave Minneapolis 13 Minn	36-41-46
Guild Electronics Inc 388 Broadway New York 13 NY	37-40-52	Kemlite Labs Inc 1819 W Grand Ave Chicago 22 Ill	54	Minn-Honeywell Regulator Co Commercial & Residential Divs 2753 4 Ave S Minneapolis 8 Minn	38-43-50-56-69-73
Gulton Industries Inc 212 Durham Ave Metuchen NJ	49-50-55	Kidde & Co Walter 1156 Main St Belleville 9 NJ	55	Minster Machine Co 1500 S 5th St Minster Ohio	71
G-V Controls Inc 45 Hollywood Plaza E Orange NJ	50	Kilgen Aircraft Div Kilgen Orszan Co 4632 W Florissant Ave St Louis 15 Mo	54	Missouri Research Labs Inc 2198 Locust St St Louis 3 Mo	36-41
Hagan Chemicals & Controls Inc 343 E Ave Pittsburgh 30 Pa	36-38-41-43- 45-46-49-50-67	Kollsman Instrument Corp Sub Standard 601 Products 80-08 46 Ave Elmhurst 73 NY	36-38-46	Modelic Products Corp Ashbury Park NJ	52-65
Hallmore Electronics Co 8532 Brookhurst Ave Anneland Calif	49-58-75	Labline Inc 3070 W Grand Ave Chicago 22 Ill	53	Modern Industries Inc 2601 Colorado Ave Santa Monica Calif	41-50-58-67-68
Haller Raymond & Brown Circleville Rd State College Pa	41-42-49-67-68-72	Land-Air Inc 7444 W Wilson Ave Chicago 31 Ill	62	Modine Mfg Co 1500 De Koven Ave Racine Wisc	50
Hallikainen Instruments 1341 7 St Berkeley 10 Calif	45-60	Larson Instrument Co 24 Orchard St Tarrytown NY	50	Mohawk Business Machines Corp 814 Halsey St Brooklyn 33 NY	69
Hammarlund Mfg Co 460 W 34 St New York 1 NY	42-40-54	Leaf Inc 110 Ionia Ave N W Grand Rapids 2 Mich	41-53-64	Montgomery Mfg Co 206 S Main Owensville Ind	42-52-71-73-75
Hamner Electronics Co Princeton NJ	70	Lee Spring Co 30 Main St Brooklyn 1 NY	69	Moor-Associates Inc 2628 Spring St Redwood City Calif	38-42-49-75
Hansen Co Wm 165 Silverbrook Ave Niles Mich	71-73	Lehigh Valley Electronics Eng'g & Mfg Co 215 S 3 St Allentown Pa	60-63	Morse Instrument Co 29 Clinton St Hudson Ohio	73
Hanson-Gorrell-Brian 85 Hazel St Glen Cove NY	36-41-48-50	Lektro Labs Inc 154 11 Ave New York 11 NY	70-72-74	Muthead Instruments Inc 677 5 Ave New York 22 NY	41
Hart Mfg Co 128 Bartholomew Ave Hartford 1 Conn	50	Leland Electric Co Aircraft Products Plant 740 E National Rd Vandalia Ohio	67-68	Multi-Products Co 21470 Coolidge Hwy Oak Park 37 Mich	42-54
Hastings-Raydist Inc Newcomb Ave Hampton Va	56	Lennard Co Inc P M 1061 E R St Jacksonville 6 Fla	50	Nagoc Associates Inc Littleton Mass	52-53
Haydon Co A W 232 N Elm St Waterbury 20 Conn	49-52-63-70-71-72-73-75	Lyndhurst NJ Link Aviation Inc Binghamton NY	38-50	National Aircraft Corp Electronica Div 3411 Tulare Ave Burbank Calif	67-69
Haydon Div General Time Corp 215 E Elm St Torrington Conn	50-71-73	Liquidometer Corp 41-03 36 St Long Island City 1 NY	50	National Bell Corp 6 Lafayette Ave Brooklyn 17 NY	52
Hays Corp 712 E 8th St Michigan City Ind	38-48-50	Litton Industries of Calif 336 N Pothill Rd Beverly Hills Calif	41-64	National Instrument Labs Inc 828 Evaria St NE Washington DC	74
H-R Instrument Co American & Bristol Sts Phila Pa	50-54	Lumenite Electronic Co 407 S Dearborn St Chicago 5 Ill	42-43-44-52-70-71-72-73-74-75	National Spectrograph Labs Inc 6300 Euclid Ave Cleveland 8 Ohio	77
Henly-Ruff Co 2255 University Ave St Paul 14 Minn	38-38-49-59	Luther Mfg Co 7312 Varva Ave N Hollywood Calif	64	Nemeth Inc 2223 S Carmelina Ave Los Angeles 64 Calif	70-71-72-75
Hewson Co 448 Broad St Newark 2 NJ	66	Lux Clock Mfg Co Johnson St Waterbury Conn	73	Newark Controls Co 15 Ward St Bloomfield NJ	38-43-44-56
Hish Vacuum Equipment Corp 2 Churchill Rd Hingham Mass	56	Macarr Inc 2543 Boston Rd New York 67 NY	40-52-73-74	Niagara Electron Labs P O Box 128 Main St Andover NY	36-38-50
Hobbs Mfg Co 26 Salisbury St Worcester 5 Mass	51	Machinery Electrification Inc 35 Hudson St Northboro Mass	40-52-73-74	North American Instruments Inc 2420 N Lake St Altadena Calif	86-38
Hoffman Electronics Corp 3761 S Hill St Los Angeles 7 Calif	58-68	Mach Electronics Div Inc 1000 S 2 St Plainfield NJ	41-52-63-70-71-73-75	North Atlantic Industries Inc 603 Main St Westbury NY	41-60
Holland Electronics 772 E 63 St Brooklyn NY	41-63	Madigan Corp 526 Mineola Ave Carle Place NY	49-58	Northeastern Eng'g Inc 25 S Hedford St Manchester NH	63
Holt Instrument Labs Div Holt Harkwood Co Inc Oconto Wisc	37-58-65	Magnetic Amplifiers Inc 632 Tinton Ave New York 55 NY	36-41-58-67-68	North Electric Co 553 S Market St Galion Ohio	36-37-41-49
Hoover Electronics Co Instrumentation Div 1122 C San Mateo SE Albuquerque NM	38-60				
Hoover Electronics Co 112 W Timonium Rd Timonium Md	60				
Hupp Electronics Co Div Hupp Corp 743 Circle Ave Forest Park Ill	40-63				

Norwood Controls Unit Detroit Controls Div American Standard 934 Washington St Norwood Mass	38-47-50	Radio Corp of America Commercial Electronic Products Front & Cooper Sts Camden NJ	36-38-48-60-63-71	Servo Systems Co 55 Meeker Ave Newark 12 NJ	41
NRC Equipment Corp 169 Charlemont St Newton Highlands 61 Mass	56	Rumo-Woodbridge Corp Electronic Instrumentation Div P O Box 8405 Denver 10 Colo	36-38-41-49-58-67-68-69-73	Servo-Tek Products Co 1086 Gifford Rd Hawthorne NJ	36-41-46-53
Nuclear-Chicago Corp 223 W Erie St Chicago 10 Ill	70	Ranson Research Box 269 323 W 7 St San Pedro Calif	63-70-72-73-74-75	Sewalms Clock Co 61 E Main St Forestville Conn	71-75
Nuclear-Electronics Corp 2632 W Cumberland St Philadelphia 32 Pa	63	Rnyc Electronic Mfg Inc 1116 Cumpston St N Hollywood Calif	37-41-67-68	Shand & Jurs Co 2000 8th St Berkeley 10 Calif	49
Nuclear Systems Div Budd Co 2450 Hunting Park Ave Philadelphia 32 Pa	77	Raytheon Mfg Co Commercial Equip Div 100 River St Waltham 64 Mass	61-68	Simmonds Aerocores Inc 105 White Plains Rd Tarrytown NY	59
O'Brien Electric Corp 6514 Santa Monica Blvd Hollywood 28 Calif	71	Raytheon Mfg Co 100 River St Waltham 54 Mass	61-68	Simplex Time Recorder Co 24 S Lincoln St Gardner Mass	73
Ohmite Mfg Co 3601 Howard St Skokie Ill	46	Rea Co J B 1723 Cloverfield Blvd Santa Monica Calif	36-38-41-49-64-65-73-75	Skiatron Electronics & TV Corp 180 Varick St New York 14 NY	50-52-63-70-71-72-73-74-75
Omega Instrument Co 103 E Altadena Dr Altadena Calif	38	Reed & Reed Inc 717 N Lake Ave Pasadena 6 Calif	64	Solartron Electronic Group Ltd Queens Rd Thames Ditton Surrey England	41-52-62-63-77
Opad Electric Co 69 Murray St New York 7 NY	86-46-58-68-73	Reeves Instrument Corp Roosevelt Field Garden City NY	36-41-64	Southwestern Industrial Electronics Co 2831 Post Oak Rd Houston 19 Texas	35-50-75
Oster Mfg Co John Avionic Div 1 Main St Racine Wis	75	Reliance Automatic Lighting Co 1927 Mead St Racine 3 Wis	52-73	Spencer Mfg Co 3253 N Cicero Ave Chicago 41 Ill	63
Otis Elevator Electronic Div 35 Ryerson St Brooklyn 5 NY	41-55	Reliance Electric and Engr'g Co 24701 Euclid Ave Cleveland 17 Ohio	50-51-52-63-58-67-68	Sperry Gyroscope Co Sunnyvale Dev Center 394 Commercial St Sunnyvale Calif	36-64
Pacific Scientific Co P O Box 22019 Los Angeles 22 Calif	49-51-64	Republic Aviation Corp Farmingdale L I New York	67-68	Sperry Gyroscope Co Marine Div Roosevelt Field Mineola NY	41-64
Packard Bell Electronics Corp 12333 W Olympic Blvd Los Angeles 64 Calif	41-49-63-70-72-73	Rendel Engr'g Corp 330 S Fair Oaks Ave Pasadena Calif	70-75	Standard Electric Time Co 89 Logan St Springfield 2 Mass	70-71-72-73
Packard Instrument Co P O Box 428 La Grange Ill	52	Research Industrial Lab of Electronics Rown Pa	50-56-67-68-71-73-75	Stanadar Electronics Research Corp 2 E End Ave New York 21 NY	50-77
Pantek Co P O Box 212 El Segundo Calif	52-70-71-72-73-74-75	Resitron Labs Inc 2904 Nebraska Ave Santa Monica Calif	56-77	Standard Instrument Corp 657 Broadway New York 12 NY	43-44-50-51-63-70-72-73-74
Paragon Electric Co 1600 12 St Two Rivers Wis	52	Revere Corp of America N Colony Rd Wallingford Conn	60	Stanley Aviation Corp 2501 Dallas St Denver Colo	63
Parsons Co Ralph M Electronics Div 151 S De Lacey Ave Pasadena Calif	70-73-75	Reynolds Electric Co 3000 River Rd River Grove Ill	42-54-76	Statistical Instr Co 330 Haven Ave New York 33 NY	58-67-68
Partlow Corp 211 Campion Rd New Hartford NY	50-52-73	Rhodes Inc M H 30 Bartholomew Ave Hartford Conn	52-73-75	Stevens Mfg Co P O Box 1007 Annex Mansfield Ohio	50-76
Patterson Moos Div Universal Winding Co 90-28 Van Wyck Expressway Jamaica 18 NY	48-44-70-71-72-73-75	Richardson-Allen Corp 116-15 15 Ave College Point 56 NY	67-68	Stewart Instrument Co 6007 Grand River Detroit 8 Mich	37-38-52-61
Pegasus Labs Inc 3690 W 11 Mile Rd Berkley Mich	36-41	Rich Electronics Inc 212 NW 8 Ave Miami 36 Fla	41-49	Sticht Co Herman M 27 Park Pl New York 7 NY	73
Penn Controls Inc Goshen Ind	50-56-57	Richmont Inc 922 S Myrtle Ave Monrovia Calif	53	Stoelting Co C H 424 N Human Ave Chicago 24 Ill	71-72-73
Penn-East Engr'g Corp Box 240 Kutztown Penna	41	Roberts-Fulton Controls Co 2920 N 4 St Philadelphia 33 Pa	50	Stokes Corp F J 5500 Taber Rd Philadelphia 20 Pa	56
Perkin-Elmer Corp Vermont Div Emerald St Norwalk Conn	41	Roberts-Fulton Controls Co Fulton Sylphon Div P O Box 400 Knoxville Tenn	38-50-56-57-69	Stratford Corp 44 W 28 St New York 1 NY	41-42
Perkin Engr'g Corp 345 Kansas St El Segundo Calif	67-68	Robinette Co W C 802 Fair Oaks Ave S Pasadena Calif	36-41-46-51	Streeter Amet Grays Lake Ill	60-70-73
Perma-Power Co 3102 N Elston Ave Chicago 18 Ill	42	Robotron Corp 21300 W 8 Mile Rd Detroit 19 Mich	52-61-75	Stromberg-Carlson Div General Dynamics Corp 100 Carlson Rd Rochester 8 NY	36-41-54
Phila Scientific Glass Co Box 46C Paleson Rd Quakertown Pa	50	Rockwell Engr'g Co 2133 E 45 St Indianapolis 5 Ind	41	Suncoast Instruments Div Milton Roy Co 6301 49th St St Petersburg Fla	34-59
Philbrick Researches Inc George A 230 Congress St Boston 10 Mass	41-42-58-68	Ronan & Kunal 502 S Kalamazoo Ave Marshall Mich	52	Superior Electric Co 83 Laurel St Bristol Conn	54-68
Phileo Corp Govt & Industrial Div 4700 Wissinickon Ave Philadelphia 41 Pa	41	Roy Co Milton 1300 E Mermaid La Phila Penna	38-59	Syston Corp 2055 Concord Blvd Concord Calif	70-71-73
Phillips Electronics Inc 750 S Fulton Ave Mt Vernon NY	77	Royson Engr'g Co 108 N Penn St Hathoro Pa	63	Taller & Cooper 75 Front St Brooklyn 1 NY	36-39-42-49-60-63
Phoenix Precision Instrument Co 8803 N 5 St Philadelphia 40 Pa	41-43-44	Rue Products 1628 Venice Blvd Venice Calif	58-67-68	Taylor-Emmet Controls Inc 445 E Turkeyfoot Lake Rd P O Box 728 Akron 9 Ohio	84-50-52-71-73-75
Photobell Co 41 Vesey St New York 7 NY	36-42-43-44-45-48-50-51-52-54-55-63-70-71-73-74-75-76	Sarco Co 338 Fifth Ave New York 1 NY	50	Taylor Instruments Companies 95 Ames St Rochester 1 NY	36-37-38-46-46-50-51-54-59-60-70-71-72-73-75
Photographic Analysis Inc 13273 Ventura Blvd N Hollywood Calif	41	Sanders Associates 85 Canal St Nashua NH	64	Technical Oil Tool Corp 1057 N La Brea Los Angeles 38 Calif	52-68-70-73-75
Picker X-Ray Corp 25 S Broadway White Plains NY	77	Sangamo Electric Co 1207 N 11th St Springfield Ill	52-73	Telco Industries Corp 35-18 87 St Long Island City 1 NY	41-49
Piezo Products Co Whitney St Sherborn Mass	50	Scaico Controls Inc P O Box 41 Cooper St Delanco NJ	38-50-52-71-73-76	Telemeter Magnetics Inc 2245 Pontiac Ave Los Angeles 64 Calif	71
Phase Instrument Co E 4 St Bridgeport Pa	51-53	Scanlin Electronics Inc 11524 W Pico Blvd Los Angeles 64 Calif	52	Teletonic Labs Inc 1835 W Rosecrans Ave Gardena Calif	52-71-72
Potter Aeronautical Corp Route 22 Union NJ	63-75	Schafer Custom Engr'g 235 S 11 St Burbank Calif	49	Tel-Instrument Electronics Corp 728 Garden St Carlstadt NJ	58
Potter Instrument Co Sunnyside Blvd Plainview NY	39-40-42-52-63-70-75	Schirmer-National Alarm Co 20 Westside Ave Bergenfield NJ	44	Teller Co Box 989 Butler Pa	36-41
Powers Regulator Co 3400 Oakton St Skokie Ill	50-57-69	Sciaky Bros 4915 W 67 St Chicago 88 Ill	52-63	Tempo Instrument Inc 240 Old Country Rd Hicksville NY	52-58-71-73
Power Supplies Inc 1005 Olive St Highland Ill	46-55-58-67-68	Scientific Engr'g Lab 2436 Sacramento St Berkeley Calif	56	Tenotron Inc Pin Hill Harvard Mass	52-53
Precise Measurements Corp RD 1 Millbrook Rd Flemington NJ	58-68	Seaboard Electric Products Corp 417 Canal St New York 18 NY	41	Therm-O-Disc Inc P O Box 1588 Mansfield Ohio	50
Precision Scientific Co 3737 W Cortland St Chicago 47 Ill	80	Seely Instrument Co 377 4 St Niagara Falls NY	71-73-75	Thermo Electric Co 109 S St Saddle Brook NJ	50
Precision Thermometer & Instrument Co 1434 Brandywine St Philadelphia 30 Pa	50	Sel Rex Corp 75 River Rd Nutley 10 NJ	58	Theta Instrument Corp 48 Pine St E Paterson NJ	41
Production Instrument Co 710 W Jackson Blvd Chicago 4 Ill	63	Seneca Falls Machine Co 814 Fall St Seneca Falls NY	36-41-46-53	Thompson Clock Co H C 38 Federal St Bristol Conn	70-71-73-75
P S P Engr'g Co Div Induction Motors 8684 Otis St South Gate Calif	69	Sensory Inc 10 New St Morristown NJ	52-63-75	Thompson Products Inc Electronics Div 2196 Clarkwood Rd Cleveland 3 Ohio	36-41-46
Pye Canada Ltd 82 Northline Rd Toronto 16 Ontario Canada	70-71-72-73-75	Serdex Inc 1 Bowdoin Sq Boston 14 Mass	50	Times Facsimile Corp 540 W 58 St New York 19 NY	52
Pyrometer Instrument Co 92 Portland Ave Bergenfield NJ	50	Servo Corp of America 2020 Jericho Turnpike New Hyde Park NY	36-41-50	Tiptronic Inc 68 Olive St Chagrin Falls Ohio	38-42-46-50-53-61
Quartz Controllers 381 N Main St Sharon Mass	37-39-50	Servomechanisms Inc 12500 Aviation Blvd Hawthorne Calif	36-41-46-49	Titeflex Inc Hendee St Springfield 4 Mass	65
Radex Corp 2076 Elston Ave Chicago 14 Ill	71-75	Servon Instruments Inc 640 Terminal Way Coats Mesa Calif	36-38-41	Toledo Scale Co 1027 Telegraph Rd Toledo Ohio	89
Radiation Counter Labs Inc 5121 W Grove St Skokie Ill	63	Servonics Inc 822 N Henry St Alexandria Va	41-46-47-53	Topp Industries Inc 8907 Wilshire Blvd Beverly Hills Calif	41-46-68-73-75
Radiation Inc P O Box 37 Melbourne Fla	49	Servo-Recording Instruments Inc 1815 Van Buren St Phoenix Ariz	63	Torq Engineered Products Inc 32 W Monroe Bedford Ohio	48

Tracerlab Inc
601 Trapelo Rd
Waltham 54 Mass 59-60-62-63-70-73

Trans Electronics Inc
7349 Canoga Ave Canoga Park Calif 58-67-68

Transistor Devices Inc
730 Blvd Kenilworth NJ 67-68

Transval Eng'g Corp
10401 W Jefferson Blvd Culver City Calif 41

Triplett & Barton
831 N Lake St P O Box 3128
Hurbank Calif 62-77

Tri-R Instruments
24-16 44 Rd Long Island City 1 NY 60

Tri-Tronics Co
2607 St Charles Rd Hellwood Ill 36-40-74

Trutt Electronics Inc
412 Smith St
Rochester 6 NY 42-62-58-63-70-74-75

Tullamore Electronics Lab
6055 S Ashland Ave Chicago 36 Ill 63-70

Tuttle & Kift Inc
1923 N Monitor Ave Chicago 39 Ill 60-73

U-C Electronic Div
Universal Transistor Prods Corp
50 Bond St Westbury LI NY 58

Ulanet Co George
413 Market St Newark 5 NJ 50-76

Ultradyn Eng'g Labs
P O Box 3308 Albuquerque New Mex 36-49

Union Switch & Signal Div
1780 1807 Braddock Ave
Swissvale P O Pittsburgh 8 Penna 54

United Aircraft Products Inc
1116 Bulander Ave Dayton 8 Ohio 66-69

United Control Corp
4540 Union Bay Pl Seattle 5 Wash 41-50

United Electric Controls Co
85 School St Watertown 72 Mass 34-50-56

United Transformer Corp
150 Varick St New York 13 NY 68

Universal X-Ray Products Inc
1140 N Western Ave Chicago 22 Ill 77

Unwage Inc
109 Marine St Farmingdale NY 46-63

U S Controls Inc
161 Grand St New York 13 NY 36-52

U S Time Corp
Waterbury Conn 64

Vacuum-Electronic Eng'g Co
86 Denton Ave New Hyde Park LI NY 56

Vacuum Specialties Co
34 Linden St Somerville Mass 56

Vacuum Tube Products Co
2020 Short St Oceanside Calif 56-61-71

Valverde Labs
252 Lafayette St New York 12 NY 42-50

Vapor Heating Corp
80 E Jackson Blvd Chicago 4 Ill 88-50

Vapor Recovery Systems Co
2920 N Alameda St Compton Calif 49

Vero Mfg Co
2201 Walnut St
Garland Texas 36-37-41-42-46-49-52-58-67-68

Vetrol Eng'g Inc
P O Box 889
Stamford Conn 36-41-46-50-51-53-58-61

Veco Vacuum Corp
86 Denton Ave New Hyde Park NY 56-60

Versailles Products
Div Metals & Controls Corp
300 N Main Versailles Ky 50

Vickers Inc Electric Products Div
1887 Louisa St
St Louis 3 Mo 36-37-38-41-46-47-53-58-61-67-68

Victory Eng'g Co
121 Springfield Rd Union NJ 49-50

Waeline Inc
35 S St Clair St
Dayton 2 Ohio 41-46-53-58-64-70-73

Waldorf Instrument Co Div F C Huey & Sons
Park Ave
Huntington Station NY 48-51-54-64

Walkirt Co
141 W Hazel St
Inglewood 3 Calif 52-59-68-70-71-72-73-74-75

Wallson Associates Ltd
963 Frelinghuysen Ave Newark 12 NJ 36-41

Wank Labs Inc
37 Hurley St Cambridge 41 Mass 36

Warner Electric Brake & Clutch Co
449 Gardner St St Helms Ill 36-53

Warner & Swasey Corp
34 W 32 St New York 1 NY 36-41-46-50

Warren Mfg Co
Newtown Rd Littleton Mass 41-58

Waugh Eng'g Co
7842 Burnet Ave Van Nuys Calif 46

Waveguide Inc
14837 Oxnard St Van Nuys Calif 75

Welltronic Co
15500 W 3 Mile Rd
Detroit 19 Mich 52-58-61-63-67-68-70-75

Westgate Lab Inc
506 S High St Yellow Springs Ohio 78

Westinghouse Electric Corp
P O Box 888
Pittsburgh 30 Pa 57-58-61-67-68-70-73-74-75

West Instrument Corp
4363 W Montrose Ave Chicago 41 Ill 50

Weston Electrical Instrument Corp
614 Frelinghuysen Ave
Newark 12 NJ 38-50-56

Wheelock Signals Inc
273 Branchport Ave Long Branch
Wickes Eng'g & Construction Co
12 St & Ferry Ave Camden 4 NJ 58-67-68

Wilcolator Co
1001 Newark Ave Elizabeth NJ 50

Wilson & Co G C
1915 8 Ave Huntington 3 W Va 52

Winterburn Mfg Co
11 Whittemore St Putnam Conn 41-46-52

Worner Electronic Devices
Rankin Ill 36-43-44-63

Yellow Springs Instrument Co
P O Box 106 Yellow Springs Ohio 50

Zenith Electric Co
152 W Walton St Chicago 10 Ill 52

Zena Eng'g Co
6365 Kenmore Ave
Los Angeles 6 Calif 41

23—Crystals, Crystal Applications & Accessories

Crystals, barium titanate 1

Crystals, color TV frequency control 2

Crystals, communication 3

Crystals, diode 4

Crystals, frequency control 5

Crystals, galena 6

Crystals, germanium 7

Crystals, hermetically sealed 8

Crystals, quartz 9

Crystals, Rochelle salt 10

Crystals, scintillation 11

Crystals, silicon 12

Crystals, synthetic sapphire 13

Crystals, tourmaline 14

Crystals, transducer 15

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Crystal mounts 21

Crystal ovens 22

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Holders 24

Pickups, quartz crystal 25

Probes 26

Acoustica Associates
26 Windsor Ave Mineola NY 15

Admittance Namco Corp
Marine St Farmingdale LI NY 26

Aerolite Electronics Corp
2207 Summit Ave Union City NJ 26

Aeronautical Electronics Inc
P O Box 6527 Raleigh N Carolina 5

Aircorn Inc
354 Main St Winthrop Mass 3

Airtron Inc
139 E 1st St Roselle NJ 21-24

Airtron Inc
1108 W Elizabeth Ave Linden NJ 21-24

Allied Industries Inc
2500 Woodland Ave Louisville 10 Ky 21-23

American Electronic Laboratories
121 N 7 St
Philadelphia 6 Pa 4-19-21-24

American Lava Corp Subs Minn Mining & Mfg
Cherokee Blvd & Mfrs Rd
Chattanooga 5 Tenn 1-24-28-31-40

Amerail Co
685 Ramsey Ave Hillsdale NJ 8

Antatic Corp
250 Harbor St Conneaut Ohio 17

Atlantic Research Corp
901 N Columbus St Alexandria Va 15

Automatic Metal Products Corp
323 Berry St
Brooklyn 11 NY 4-21-24

Automation Instruments Inc
Industrial Pk Boulder Colo 15-26

Baird-Atomic Inc
33 University Rd Cambridge 38 Mass 4-11

Bassett Inc Rex
1314 N E 17 Ct
Ft Lauderdale Fla 3-5-8-9

Beckman/Berkeley Div Beckman
Instruments Inc 2200 Wright Ave
Richmond 3 Calif 40

Berkeley Crystal Co
1740 University Ave Berkeley 3 Calif 22

Rios Labs Inc
17 W 60 St
New York 28 NY 1-2-3-4-5-6-7-8-9-10-11-12-13-14-15

Bircher Corp Industrial Div
4371 Valley Blvd Los Angeles 32 Calif 24

Bliley Electric Co
Union Station Bldg
Erie Pa 2-3-5-8-9-15-16-19-20-22

Bomac Labs Inc
Salem Rd Beverly Mass 12

Hram Metallurgical-Chemical Div
820 65 Ave
Philadelphia 26 Pa 1-7-9-14-16

British Electronic Sales
Oakland Gardens Flushing 64 NY 23

Budd Stanley Co
43-01 22 St Long Island City 1 NY 21

Bulova Watch Co Electronics Div
40-01 61 St
Woodside 77 NY 3-5-8-9-16-19-20-22-23

Burnett Radio Lab W W L
4814 Idaho St
San Diego 16 Calif 3-5-22-24

Burnell & Co
10 Pelham Pkwy Pelham Manor NY 3-19

Burroughs Corp
6071 2 Ave Detroit 32 Mich 31

Burroughs Corp Electronic Instruments Div
1209 Vine St Philadelphia 7 Pa 32

Canadian Astatic Ltd
2273 Danforth Ave
Toronto 13 Ont Canada 17

Century Coil Corp
1534 N Clybourn Ave Chicago 10 Ill 33

Cinch Mfg Corp
1026 S Homan Ave Chicago 24 Ill 23

Cinema-Television Ltd
Worsley Bridge Rd Lower Sydenham
London S E 26 England 22

Clark Crystal Co
2 Farm Rd Marlboro Mass 3-5-8-9-22

Clowes Ceramic Corp
3711 Calhoun Ave Chattanooga 7 Tenn 28

Columbia Research Labs
MacDade Blvd & Bullens La
Woodlyn Pa 1-18

Constantin & Co L L
Route 46 Lodi NJ 18-21-24

Control Circuits Inc
103 Court St Middletown Conn 22

Cox & Co
115 E 23 St New York 10 NY 22

Cryco Inc
1138 Mission St S Pasadena Calif 9

C W Mfg Co
Box 2065 El Monte Calif 2-3-5-8-9

Dallons Labs
5884 Santa Monica Blvd
Los Angeles 29 Calif 3-5-8-9-15-16

Dana Inc P A
233 Broadway New York 7 NY 8

Dayton Aviation Radio & Equipment Corp
P O Box 258 Troy Ohio 19-26

Defiance Eng'g & Microwave Corp
Beverly Airport Beverly Mass 21

Diamond Antenna & Microwave Corp
7 North Ave Wakefield Mass 19-21-24

Diamond Drill Carbon Co
244 Madison Ave New York 16 NY 9

Downing Crystal Co
191 Shaffer Ave
Westminster Md 3-5-8-9-18-22

Duotone Co
Locust St Keyport NJ 17

Du Pont de Nemours & Co E I
Wilmington 98 Del 12

DX Radio Products Co
2300 W Armitage Ave
Chicago 47 Ill 2-5-8-9-19

Eagle-Picher Co American Bldg
American Bldg Cincinnati 1 Ohio 7-12

Eby Co H H
4700 Germantown Ave
Philadelphia 44 Pa 24

Eby Sales Co
130 Lafayette St New York 13 NY 23

Edo Corp
13-10 111 St College Point 56 LI NY 1

Eidson Electronic Co
1902 N 8 St Temple Texas 3-5-8-9-16-22

Elco Mfg Co
137 Herrick Rd New Hyde Park LI NY 21

Eldico Electronics
29-01 Barden Ave Long Island City 1 NY 19

Electrofilm Inc
7116 Laurel Canyon Blvd
N Hollywood Calif 20

Electro-Flex Heat Inc
83 Woodbine St Hartford 6 Conn 20

Electronic Instrument Co
84 Withers St Brooklyn 11 NY 26

Elektro-Serv Co
480 Johnson Ave Brooklyn 37 NY 20

Elm Labs
10 Washington Ave
Hastings-on-Hudson NY 6-20-21-22-24

Endoco Eng'g Development Co of Los Angeles
148-50 Wilmington Blvd
Wilmington Calif 9

EnR Corp
Fellowship Rd Route 73
Maple Shade NJ 21-23-24

Engelhard Industries Inc
113 Astar St Newark NJ 9

Eric Resistor Corp
644 W 12 St Erie 6 Pa 1

Fair-Rite Products Corp
Commercial Row Walkkill NY 31-36

Flight Research Inc
P O Box 1-F Richmond 1 Va 12

Fluorocarbon Products Inc Div U S Gasket Co
602 N 10 St Camden 1 NJ 23

F-R Machine Works Inc Electronic & X-Ray
Div 26-12 Borough Pl
Woodside 77 NY 4-21-26

General Crystal Co
P O Box 9
Burlington Wisc 1-2-3-5-8-9-16

General Electric Co
Specialty Electronic Component Dept
W Genesee St Auburn NY 15

General RF Fittings Inc
702 Beacon St Boston 15 Mass 19-21-24-26

Glass-Solder Eng'g
4232 Temple City Blvd
Rosemeade Calif 21-24

Gulton Industries Inc
212 Durham Ave Metuchen NJ 1-15

Haller Raymond & Brown
Circleville Rd State College Pa 4

Harshaw Chemical Co
1945 E 97 St Cleveland 6 Ohio 1-8-11-16

Hermetic Pacific Corp
4232 Temple City Blvd
Rosemeade Calif 21-24

Hermetite Corp
702 Beacon St Boston 15 Mass 21-24

Hewlett-Packard Co
275 Page Mill Rd Palo Alto Calif 4

Hill Electronic Eng & Mfg Co
300 N Chestnut St
Mechanicsburg Pa 3-5-8-9-16-19-22

Hoffman Co P R
321 Cherry St Carlisle Pa 16-18-21

Howard Crystal Holders Inc
2609 Grand Ave
Kansas City 8 Mo 18-20-22-24

Hudson American
2901 Borden Ave Long Island City NY 9

Hughes Products Hughes Aircraft Co
5340 W 104 St Intl Airport Sta
Los Angeles 45 Calif 19

Hunt Corp
453 Lincoln St Carlisle Pa 2-3-5-8-9-22

Hupp Electronics Co Div Hupp Corp
743 Circle Ave
Forest Park Ill 3-5-9-16-22

Hupp Electronics Co Div Hupp Corp
265 E Pomfret St
Carlisle Pa 2-3-5-8-9-14-16-19-20-22-25

Hycron Eastern Inc
75 Cambridge Pkwy Cambridge 42 Mass 19

International Crystal Mfg Co
15 N Lee Ave
Oklahoma City 1 Okla 3-5-8-9-22

International Telemeter Corp
2000 Stoner Ave Los Angeles 25 Calif 31

Isolantite Mfg Corp
Warren Ave Stirling NJ 22

Isomet Corp
118 Union St Palisades Park NJ 6-11-16

Isotapes Inc
123 Woodlawn Ave Westwood NJ 11

Isotopes Specialties Co
Box 688 Burbank Calif 11-26

Javes
P O Box 646 Redlands Calif 21-23

Johnson Co E F
206 2 Ave S W Waseca Minn 21-23

J-V-M Eng'g Co
4633 S Lawndale Ave Lyons Ill 4-24

Kemtron Electron Products Inc
14 Prince Pl Newburyport Mass 4-7-8-12

Keystone Electronics Co
65 T Ave
Newark 4 NJ 3-3-5-8-9-11-16-22

King Laboratory Inc
25th St 2nd
West Salt Lake City 15 Utah 1-15

Kistler Instrument Corp
15 Webster St N Tonawanda NY 25-26

Knight Co James
Church & Wells Sts
Sandwich Ill 2-3-5-8-9-15-16-19-20-22

Kost Products Co
2335 N Cicero Ave Chicago 39 Ill 21-24

Lavage Labs Inc
Matawan-Freehold Rd Morganville NJ 22

Lehigh Valley Electronics Eng'g & Mfg Co
215 S 3 St Allentown Pa 20-22

Levinthal Electronic Products Inc
3180 Hanover St Palo Alto Calif 11

Lewin Co E R
11 Bragg St
E Hartford 8 Conn 1-3-5-8-9-15-16-19

Lieco Inc
3610 Oceanside Rd Oceanside NY 21

Linde Co
Div Union Carbide & Carbon Co
30 E 42 St New York 17 NY 13

McCoy Electronics Co
Chestnut & Watts Sts
Mt Holly Springs Pa 2-3-5-8-9-19-22

Mackay Inc A D
158 Broadway
New York 38 NY 6-7-9-11-12-13

Magnaflex Corp
7300 W Lawrence Ave Chicago 31 Ill 26

Magnavox Co
2131 Bueter Rd Ft Wayne Ind 22

Manson Laboratories Inc
207 Greenwich Ave Stamford Conn
Merk & Co Inc Chemical Div
Rahway NJ 22

Meridian Metalcraft Inc
8739 E Millergrove Dr Whittier Calif 21-24

Methode Mfg Corp
747 W Wilson Ave Chicago 31 Ill 23

Micarta Fabricators Inc
5324 N Ravenswood Ave Chicago 40 Ill 21

Microlab
Okmer Pkwy Livingston NJ 4-21-24

Microwave Associates Inc
Burlington Mass 4-12

Microwave Development Labs
92 Broad St Habson Park 57 Mass 4-24

Microwave Eng'g Labs Inc
943 Industrial Ave Palo Alto Calif 4

Midland Mfg Co
3158 Fiberglass Rd
Kansas City 15 Kansas 2-3-5-8-9-16-20-22

Millen Mfg Co James
150 Exchange St Malden 48 Mass 23

Miller Labs August E
9226 Hudson Blvd
N Bergen NJ 3-5-9-16-19-22-23

Mobile Electronics Mfg Co
1111 State Rd 67 E Anderson Ind 19

Molded Fiber Glass Co
4801 Benefit Ave Ashtabula Ohio 33

Monitor Products Co
815 Fremont Ave
S Pasadena Calif 2-3-5-8-9-15-16-18-19-21-22-23-24

Moseley Co F L
409 N Fair Oaks Ave Pasadena Calif 23-24

Mullenbach Div Electric Machinery Mfg Co
2100 E 27 St Los Angeles 58 Calif 1

Narda Microwave Corp
118-160 Herricks Rd Mineola NY 4

National Company Inc
61 Sherman St Malden 48 Mass 23

National Fabricated Products
Div Hoffman Electronics Corp
2650 W Belden Ave Chicago 47 Ill 23-24

National Radiac Inc
475 Washington St Newark 2 NJ 11-16

Nebel Laboratory R E
1634 E 12 St Brooklyn 29 NY 3-16-18-21

Northern Eng'g Labs
372 Wilmot Ave Burlington Wise 3-5-8-9-15

NRD Instrument Co
9842 Manchester Rd St Louis 14 Mo 11-25

Nuclear-Chicago Corp
223 W Erie St Chicago 10 Ill 11

Pacific Semiconductors Inc
10451 W Jefferson Blvd
Culver City Calif 4-7-16

Palmer Inc M V
4002 Fruit Valley Rd Vancouver Wash 3

Pan-Electronics Corp
P O Box 404 Griffin Ga 5

Permonite Mfg Co
444 Lake Shore Dr Chicago 11 Ill 24

Phillips Control Corp
Joliet Ill 21

Phillips Mfg Co
3475 W Touhy Ave Chicago 46 Ill 15

Philmore Mfg Co
113 University Pl New York 3 NY 4-6-24

Pilot Chemicals Inc
36 Pleasant St Watertown 72 Mass 11

Pix Mfg Co
75 Hudson St Newark 3 NJ 21-24

Precision Crystal Lab
223 Warwick Ave
Santa Monica Calif 3-5-8-9-15-19-22

Premier Research Labs Inc
79 T Ave
New York 11 NY 16-18-19-20-22-24

Press Wireless Labs Inc
25 Prospect Pl W Newton 65 Mass 26

Pye Telecommunications Ltd
Newmarket Road
Cambridge England 3-5-22-23-24

Radar Design Corp
2360 James St N Syracuse 12 NY 4-21-24

Radin Corp of America
Commercial Electronic Products
Front & Cooper Sts Camden NJ 3-5

Radio Corp of America
Semiconductor & Materials Div
Somerville Mass 21-40

Raytheon Mfg Co
Receiving & Tube Semiconductor Oper
55 Chapel St Newton 58 Mass 4

Raytheon Mfg Co Ceramic Sales
Foundry Ave Waltham Mass 40

Raytheon Mfg Co Microwave & Power
Tube Operations
Foundry Ave Waltham Mass 40

RCA Electron Tube Div
415 S 8th St Harrison NJ 4

Reeves-Hoffman Div
Cherry & North Sts
Carlisle Pa 2-3-5-8-9-16-19-22

Remler Co
2101 Bryant St San Francisco Calif 24

Rixon Electronics Inc
2414 Reddie Dr Silver Spring Md 22

Romar Plastics Inc
1311 E Main St St Charles Ill 20

Ronette Acoustical Corp
190 Earle Ave Lynbrook NY 17

Rubbercraft Corp of Calif
1800 W 220 St Torrance Calif 12

Sage Labs Inc
159 Linden St Wellesley 81 Mass 21-24

Scientific Radin Products Inc
215 S 11 St
Omaha Nebr 2-3-5-8-9-16-18-19-20-22

Scientific Radin Service
4801 Sheridan St University Park
Hyattsville Md 5-5

Sev Electronics Co Inc
1778 Flatbush Ave Brooklyn 10 NY 9

Semimetals Inc
130-11 90 Ave Richmond Hill 18 NY 7-12

Sherold Crystals Inc
1810-12 McGee Traficway
Kansas City 8 Mo 2-3-5-8-9-16

Sierra Electronic Corp
3885 Bohannon Dr Menlo Park Calif 4

Shure Bros
222 Hartrey Ave Evanston Ill 25

Silicon Crystals Inc
Ft of Madison St Wilmington 90 Del 12

Simpson Electric Co
5200 W Kinzie St Chicago 44 Ill 26

Single Crystal Corp of America
Saxonburg Blvd
Saxonburg Pa 1-4-7-10-11-12-13-14-15

Solar Mfg Corp
4553 Seville Ave Los Angeles 58 Calif 1-15

Southern Plastics Co
408 Pendleton SC 17-21-24

Sperry Gyroscope Co
Microwave Electronics Div
Great Neck NY 21

Standard Crystal Co
1714 Locust St
Kansas City Mo 2-3-5-8-9-16-19-20-21-22-23

Steward Mfg Co D M
Chattanooga Tenn 1

Stupakoff Div Carborundum Co
Latrobe Pa 1

Superior Steatite & Ceramic Corp
83-91 W Forest St Englewood NJ 28

Technical Products Co Instrument Div
6670 Lexington Ave
Los Angeles 38 Calif 19

Techiraft Labs Inc
Thomaston-Waterbury Rd
Thomaston Conn 21-40

Techniques Inc
52 Jackson Ave Hackensack NJ 20

Tedford Crystal Labs
4126 Colerain Ave
Cincinnati 23 Ohio 2-3-5-8-9-15-16-19

Telerad Mfg Corp
Route 69 Flemington NJ 21

Telerad Mfg Corp
1440 Broadway New York 18 NY 21

Texas Instruments Inc
6000 Lemmon Ave Dallas 9 Texas 12

Tracerlab Inc
1601 Trapelo Rd Waltham 54 Mass 4-11-26

Trad Television Co
1001 First Ave Asbury Park NJ 21

Trans-Sil Corp
55 Homeck St Englewood NJ 4-12

Tru-Connector Corp
416 Union St Lynn Mass 24

Tullamore Electronics Lab
6055 S Ashland Ave Chicago 36 Ill 4-11

Union Electronics & Machine Corp
71 Broadway Wakefield Mass 24

United Mineral & Chemical Corp
16 Hudson St New York 13 NY 11

Univac Inc
109 Marine St Farmingdale NY 21

U S Dynamics Corp
1250 Columbus Ave
Boston 20 Mass 4-7-8-12-22

U S Semiconductor Products
3536 W Osborn Rd P O Box 11125
Phoenix Ariz 12

Valpey Crystal Corp
1244 Highland St
Holliston Mass 3-5-8-9-14-15-16-22

Victor RF & Microwave Co
86 W Water St Wakefield Mass 19-21-26

Wacline Inc
35 S St Clair St Dayton 2 Ohio 21-24

Waldom Electronics Inc
4625 W 83 St Chicago 82 Ill 28

Webster Electric Co
1900 Clark St Racine Wise 17

Westronix Corp Texas Crystal Div
8333 W Grand Ave
River Grove Ill 2-3-5-8-9-16-17-18-19-21-23-24

Williamson Development Co
317 Main St W Concord Mass 22

Wisconsin Porcelain Co
121 Lincoln St Sun Prairie Wise 25

Workman TV Inc
309 Queen Anne Rd Teaneck NJ 31-34

Wright Electronics Inc
2537 Grand Ave
Kansas City 8 Mo 2-8-9-15-19-22

Wright Electronics of Canada Ltd W Gary
628 Kent St
Whitby Ont Canada 3-5-8-9-16-22

Yale & Towne Powdered Metal Prods Div
3535 W Belmont Ave
Franklin Park Ill 27-28-30-31-32-37-38-39-40

24—DETECTORS

Detectors, current 1

Detectors, fire 2

Detectors, flow 3

Detectors, gas 5

Detectors, impedance 6

Detectors, leak 7

Detectors, lie 8

Detectors, magnetic 9

Detectors, metal 10

Detectors, mineral 11

Detectors, null 12

Detector, phase 4

Detectors, pipe & cable 13

Detectors, radiation	14	Curtiss-Wright Corp Electronics Div		Highaide Chemicals Inc	
Detectors, resistance	15	631 Central Ave Carlstadt NJ	12-20	11 Colfax Ave Clifton NJ	7
Detectors, scintillation	16	Daven Co		Hill & Co E Vernon	7
Detectors, smoke	17	Route 10 Livingston NJ	6-12-15-20	P O Box 189 Lake Geneva Wis	
Detectors, standing wave	18	Davenport Mfg Co		Hoffman Electronics Corp	14
Detectors, vibration	19	1713 N Ashland Ave Chicago 22 Ill	20	3761 S Hill St Los Angeles 7 Calif	
Detectors, voltage	20	Demornay-Bonardi Corp		Indiana Steel Products Co	10
Detectors, water leak	21	780 S Arroyo Pkwy Pasadena Calif	18	405 Elm St Valparaiso Ind	
		Designers for Industry		Ind Test Equip Co	6-12-20
		4241 Fulton Pkwy Cleveland 9 Ohio	3	85 E 11th St New York 3 NY	
Admiral Corp		Devol Research Co		Instruments Inc	14
3800 W Cortland St Chicago 47 Ill	14	Brookside Dr Greenwich Conn	9	122 N Madison St Tulsa Okla	
Admittance Namco Corp		Diatron Co		International Telephone & Telegraph Corp	
Marine St Farmingdale LI NY	1	3327 Dixie Dr Houston 21 Texas	5	Industrial Products Div	12
Advanced Electronics Inc		Dice Co J W		250 Garabaldi Ave Lodi NJ	
94 Silas Deane Hwy		16 Highwood Ave Englewood NJ	3-10	Irwin Labs	8
Rocky Hill 9 Conn	10	D & S Mfg Co		1238 S Gerhart Ave Los Angeles 22 Calif	
Advance Industries Inc		424 Burk St Ridley Park Pa	16	Isomet Corp	16
640 Memorial Dr Cambridge 39 Mass	9	Dynamic Development Co		118 Union St Palisades Park NJ	
Aerona Mfg Corp		69 New York Ave Westbury NY	12	Isotapes Inc	14-16
Middletown Ohio	2	Eagle Electric Mfg Co		123 Woodlawn Ave Westwood NJ	
Aircorn Inc		23-10 Bridge Plaza Long Island City 1 NY	28	Isotopes Specialties Co	14-16
354 Main St Winthrop Mass	18	Eberline Instrument Div Reynolds Electrical		Box 688 Burbank Calif	
Airmec Ltd		805 Early St Santa Fe NM	14-16	Johnson Aircraft Eng'g Co	
High Wycombe		Edison Industries Thomas A Instrument Div		Geophysical Services Div	12-13-21
Buckinghamshire England	12-14-16-17	McGraw-Edison Co 8 Lakeside Ave	2-15	P O Box 10 Morristown NJ	
Allis Chalmers Mfg Co		W Orange NJ		Johnson-Williams Inc	5
934 S 70th St Milwaukee 1 Wisc	10	Eisler Eng'g Co		2625 Park Blvd Palo Alto 15 Calif	
Alto Scientific Co		Elco Mfg Co		J-V-M Eng'g Co	18
855 Commercial St Palo Alto Calif	18	137 Herrick Rd		4633 S Lawndale Ave Lyons Ill	
American District Telegraph Co		New Hyde Park LI NY	1	Kahn & Co	7-9-21
155 6 Ave New York 13 NY	2-17	Electro-Measurements Inc		541 Windsor St Hartford 1 Conn	
Analytic Systems Co		7524 S W MacAdam Ave Portland 1 Ore	12	Kidde & Co Walter	2-3-7-17
Div Research Instrument Corp		Electro-Medical Lab Inc		1156 Main St Belleville 9 NJ	
990 N Fair Oaks Ave Pasadena Calif	5	S Woodstock 10 Vt	8	Kintel	12
Applied Research Labs		Electronic Control Corp		5725 Kearny Villa Rd San Diego 12 Calif	
3717 Park Pl Glendale 8 Calif	14	1573 E Forest Ave Detroit 7 Mich	17	Kruger Instruments Harold	5
Arln Products Inc		Electronics Corp of America		313 W Valley Blvd San Gabriel Calif	
13541 Auburn Ave Detroit 23 Mich	3	1 Memorial Dr Cambridge 42 Mass	2-17	Land-Air Inc Instrument & Electronic Div	9-14
Associated Research Inc		Electro Products Labs Inc		2133 Adams Ave San Leandro Calif	
3777 W Belmont Ave		4501 N Ravenswood Ave Chicago 40 Ill	10	Land-Air Inc	14
Chicago 11 Ill	8-15-20	Endevco Corp		744 W Wilson Ave Chicago 31 Ill	
Audicon Electronics Inc		16 E California St Pasadena Calif		Landsverk Electrometer Co	14
216 Lyon St Paterson 4 NJ	11-12-14	Era Eng'g Inc		641 Sonora Ave Glendale 4 Calif	
Authorized Mfrs Service Co		1009 Montana Ave Santa Monica Calif	16	Leeds & Northrup Co	12-16
919 Wyckoff Ave Brooklyn 27 NY	20	Edwood Inc		4970 Stenton Ave Philadelphia 44 Pa	
Audocall Co		1770 W Berteau Ave Chicago 13 Ill	19	Levinthal Electronic Products Inc	16
57 Mack Ave Shelby Ohio	2	Eas Instrument Co		3180 Hanover St Palo Alto Calif	
Autron Eng'g Inc		96 S Washington Ave Bergenfield NJ	17	Lord-Taber Co	2
1254 W 6 St Los Angeles 17 Calif	10	Farnsworth Electronics Co Div I T & T	14	40 Ontario St Canadaigua NY	
Baird-Atomic Inc		3702 E Pontiac St Ft Wayne Ind	14	Lumette Electronic Co	7-10-17-21
33 University Rd Cambridge 38 Mass	14-16	Fenwal Inc		407 S Dearborn St	
Ballantine Labs Inc		Pleasant St Ashland Mass	2	Chicago 5 Ill	
Roonton NJ	12	Fielden Instrument Div		Magnaflux Corp	3-7-9-21
Barker & Williamson Inc		Robertshaw-Fulton Controls Co		7300 W Lawrence Ave	
Canal & Heaver Sta Bristol Pa	12	2920 N 1 St Philadelphia 38 Pa	19	Chicago 31 Ill	
Barnes Development Co		Filmohm Corp		Magnetic Circuit Elements Inc	20
213 W Baltimore Ave		48 W 25 St New York 10 NY	18	3722 Park Pl Montrose Calif	
Lansdowne Pa	6-10-12-16	Fisher Research Lab		Magnetic Instrument Co	12
Barratt Electronics Corp		1961 University Ave		546 Commerce St Thornwood NY	
630 Dundee Rd Northbrook Ill	13	Palo Alto Calif	7-10-13-16-21	Mandel Industrial Instruments	19
Heckman Berkeley Div Beckman		Fluke Mfg Co John		Div Mondrel Industries Inc	19
Instruments Inc 2200 Wright Ave		1111 W Nickerson St Seattle 99 Wash	13	5134 Glenmont Dr Houston Texas	
Richmond 8 Calif	16	Forro Scientific Co		Massa Laboratories Inc	19
Heckman Instruments Inc Process		833 Lincoln St Evanston Ill	14	5 Fottler Ed Hingham Mass	
Instruments Div 2500 Fullerton Rd		F-R Machine Works Inc		MB Mfg Co Div Teatron Inc	19
Fullerton Calif	6-7	Electronic & X-Ray Div		P O Box 1825 New Haven 11 Conn	
Hendix Aviation Corp Cincinnati Div		26-12 Borough Pl Woodside 77 NY	6-18	Measurement Eng'g Ltd	
3130 Wesson Rd Cincinnati 9 Ohio	14	Gardiner Electronic Co		292 John St	
Herman Labs		2545 E Indian School Rd		Amprior Ontario Can	7-11-14-16-17-21
112-03 Rockaway Blvd Ozone Park 20 NY	10	Phoenix Ariz	10-13-16	Menlo Research Lab	
H J Electronics Borg-Warner Corp		Gates & Co Geo W		588 Phelan Ave	7-11-14-16-21
3300 Newport Ave Santa Ana Calif	14-18	Hempstead Tpke & Lucille Ave		San Jose Calif	
Black Light Corp of America		Franklin Square LI NY	21	Millitex Co	12
5114 Walnut Grove Ave San Gabriel Calif	11	Gates Radio Co		88 Madison Ave Hempstead NY	
Black Light Eastern Corp		123 Hampshire St Quincy Ill	2	Mine Safety Appliances Co	5-7-17
35-00 Northern Blvd Bayside 61 NY	3-7-11	General Electric Co		201 N Braddock Ave Pittsburgh 8 Pa	
Bownton Electronics Corp		Apparatus Sls Div		Minn-Honeywell Boston Div	12
738 Speedwell Ave Morris Plains NJ	12	1 River Rd Schenectady 5 NY	7-17-19-20	1400 Soldiers Field Rd Boston 35 Mass	
Brami Metallurgical-Chemical Div		General Electric Co Specialty Control Dept		Moran Instrument Corp	16
820 55 Ave Philadelphia 28 Pa	10	P O Box 812 Waynesboro Va	17	170 E Orange Grove Ave	
Brimlmer Laboratories E W		General Electric Co X-Ray Dept		Pasadena 3 Calif	
86 Fulton St New York 38 NY	10	4855 Electric Ave Milwaukee 1 Wis	16	Muirhead Instruments Inc	12
Bronke Eng'g Co		General Radio Co		677 S Ave New York 22 NY	
4517 Wayne Ave Philadelphia 44 Pa	17	275 Massachusetts Ave	1-12-19	Narda Microwave Corp	6
Browning Labs Inc		Cambridge 39 Mass		118-160 Herricks Rd Mineola NY	
750 Main St Winchester Mass	18	General Scientific Equipment Co		National Radiac Inc	16
Bruno-New York Industries Corp		7516 Limekiln Pike Phila 50 Pa	5-17	475 Washington St Newark 2 NJ	
460 W 34 St New York 1 NY	12-20	Geotechnical Corp		Nevada Air Products Co	2-8-14-17
Calif Technical Industries Div Textron Inc		3712 Hagar Dr Dallas 9 Texas	19	P O Box 2472 Reno Nev	
1421 Old County Rd Belmont 10 Calif	18	Gertsch Products Inc		Newark Controls Co	2-17
Cardinal Instrumentation Corp		3211 La Cienega Blvd		16 Ward St Bloomfield NJ	
4201 Redwood Ave Los Angeles 66 Calif	2	Los Angeles 25 Calif	12	Nilsson Electrical Laboratory Inc	13
Chesapeake Instrument Corp		G&M Equipment Co		188 Lafayette St New York 13 NY	
Shady Side Md	10	7315 Varma Ave N Hollywood Calif	2	Northeast Electronics Corp	18
Cinema-Television Ltd		Green Rectifier Co		Airport Rd Concord NH	
Worsley Bridge Rd Lower Sydenham		1-10 30 St Fairlawn NJ	7	NRG Equipment Corp	160
London S E 26 England	10-13-14	Grinnell Co		160 Charlemont St	
Clevite Corp Texas Div		260 W Exchange St Providence 1 RI	2	Newtown Highlands 61 Mass	7
3732 Westeimer Rd Houston 6 Texas	1-19	Gulton Industries Inc		NRD Instrument Co	14-16
Consolidated Electrodynamics Corp		212 Durham Ave Metuchen NJ	3-19	9842 Manchester Rd St Louis 14 Mo	
300 N Sierra Madre Villa		Hallamore Electronics Co		Nuclear-Chicago Corp	14-16
Pasadena Calif	5-7-19	8352 Brookhurst Ave Anaheim Calif	20	223 W Erie St Chicago 10 Ill	
Consolidated Electrodynamics Corp		Hamner Electronics Co		Nuclear Corp of America	14-16
Rochester Div 1776 Mt Read Blvd		P O Box 531 Princeton NJ	16	400 Park Ave New York 22 NY	
Rochester 4 NY	7	Harworth Mfg Co		Nuclear Development Lab	14
Couch Ordnance Inc		409 El Comino Real Menlo Park Calif	10	P O Box 7034 Kansas City 13 Mo	
3 Arlington St N Quincy 71 Mass	2	Heath Co		Nuclear-Electronics Corp	14-16
Crecent Eng'g & Research Co		305 Territorial Rd Benton Harbor Mich	5-14	2632 W Cumberland St	
8440 N Peck Rd El Monte Calif	10	Heaton Co		Philadelphia 32 Pa	
Crucible Steel Co of America		823 Eberts St York Pa	7	Nuclear Measurements Corp	14-16
P O Box 2518 Pittsburgh 30 Pa	9	Hewlett-Packard Co		2460 N Arlington Ave	
Cunningham Son & Co James		275 Page Mill Rd Palo Alto Calif	18	Indianapolis 18 Ind	14-16
33 Litchfield St Rochester 8 NY	6-12-15	Hickok Electrical Instrument Co		Nucleonic Corp of America	
		10514 Dupont Ave Cleveland 8 Ohio	20	196 Degraw St Brooklyn 31 NY	10-11-14-16

OMCO
Box 1110 Kingman Ariz 10-11-14

Omega Instrument Co
103 E Altadena Dr
Altadena Calif 19

Omega Labs Inc
Haverhill St Rowley Mass 18

Packard Instrument Co
P O Box 428 La Grange Ill 14-16

Parr Mfg Corp
44 Austin St Newark 2 N J 13

Patterson Mous Div Universal Winding Co
90-28 Van Wyck Expressway
Jamaica 18 NY 14

Peschel Electronics Inc
13 Garden St New Rochelle NY 13

Phillips Electronics Inc
750 S Fulton Ave Mt Vernon NY 14-16

Philmore Mfg Co
113 University Pl New York 3 NY 4

Phoenix Precision Instrument Co
3803 N 6 St Philadelphia 40 Pa
Photobell Co
43 Vesey St New York 7 NY 2-10-17

Piezo Products Co
Whitney St Shearborn Mass 2

Pilot Chemicals Inc
36 Pleasant St Watertown 72 Mass 16

Polytechnic Research & Development Co
202 Tillary St Brooklyn 1 NY 18

Potter Aeronautical Corp
Route 22 Union NJ 7-10

Precision Radiation Instruments Inc
Radio Craftsman Div
4223 W Jefferson Blvd
Los Angeles Calif 10-14-16

Protectowire Co
Washington St Hanover Mass 2

Quantametric Devices Inc
Box 1107 Binghamton NY 17

Radar Design Corp
2360 James St Syracuse 12 NY 18

Radiation Counter Labs Inc
5121 W Grove St Skokie Ill 14-16

Radiation Instrument Development Lab Inc
5137 S Halsted St Chicago 21 Ill 14-16

Radio Corp of America
Commercial Electronic Products
Front & Cooper Sts Camden NJ 5-10-17

Ramu-Woolbridge Corp
Electronic Instrumentation Div
P O Box 8405 Denver 10 Colo 14

Raytheon Mfg Co
Receiving & Tube Semiconductor Oper
58 Chapel St Newton 58 Mass 1

Reeder & Co Charles M
171-173 Victor Ave Detroit Mich 14

Republic Aviation Corp
Farmingdale LI NY 14

Rich Electronics Inc
212 NW 8 Ave Miami 36 Fla 5

Ripley Co
1 Factory St Middletown Conn 17

Sage Labs Inc
159 Linden St Wellesley 81 Mass 1-18

Sampla Machine Co A M
208 Tazewell Pike Knoxville 18 Tenn 14

Scanco Controls Inc
P O Box 41 Cooper St Delanco NJ 2

Semcom
262 E 16 St Paterson 4 NJ 12

Servo Corp of America
2020 Jericho Turnpike
New Hyde Park NY 14

Servo-Recording Instruments Inc
1815 W Van Buren St Phoenix Ariz 14-16

Simplex Valve & Meter Co
7 E Orange St Lancaster Pa 21

Single Crystal Corp of America
Saxonburg Blvd Saxonburg Pa 14-16

Sollatron Electronic Group Ltd
Queens Rd
Thames Ditton Surrey England 12-18

Sperry Gyroscopic Co
Microwave Electronics Div
Great Neck NY 1-6-18

Standard Electronics Research Corp
2 E End Ave New York 21 NY 8-14

Standard Instruments
P O Box 11566 Dallas 18 Texas 14

Stanley Aviation Corp
2501 Dallas St Denver Colo 14-16

Stearns Magnetic Products
635 S 28 St Milwaukee 46 Wis 9-10

Stoelting Co C H
424 N Homan Ave Chicago 34 Ill 8

Stratford Corp
44 W 28 St New York 1 NY 2

Taller & Cooper
75 Front St Brooklyn 1 NY 5-12

Technicraft Labs Inc
Thomaston-Waterbury Rd
Thomaston Conn 18

Telectro Industries Corp
35-18 37 St
Long Island City 1 NY 9-14

Telerad Mfg Corp
1440 Broadway New York 18 NY 18

Tel-Instrument Electronics Corp
728 Garden St Carlstadt NJ 19

Truelab Inc
1661 Trapelo Rd Waltham 54 Mass 8-7-14-16

Trad Television Co
1001 First Ave Asbury Park NJ 1

Trans-Sil Corp
55 Honeck St Englewood NJ

Tri-Tronics Co
2607 St Charles Rd Bellwood Ill 2-16-17

Tullamore Electronics Lab
6055 S Ashland Ave Chicago 36 Ill

Turner Brass Works
821 Park Ave Sycamore Ill 7

UAC Electronics Div
Universal Transistor Prods Corp
50 Bond St Westbury LI NY 14-16

Ultra-Violet Products Inc
5114 Walnut Grove Ave
San Gabriel Calif 8

United Mineral & Chemical Corp
16 Hudson St New York 13 NY 16

Universal Transistor Products Corp
36 Sylvester St Westbury LI NY 11-14-16

Vacuum-Electronic Eng'g Co
36 Denton Ave New Hyde Park LI NY 7

Vacuum Tube Products Co
2020 Short St Oceanside Calif 7

Varian Associates
611 Hansen Way Palo Alto Calif 9

Veeco Vacuum Corp
36 Denton Ave New Hyde Park NY 7

Vickers Inc Electric Products Div
1887 Locust St St Louis 3 Mo 12-20

Victor RF & Microwave Co
36 W Water St Wakefield Mass 18

Victory Eng'g Co
121 Springfield Rd Union NJ 5

Wacline Inc
35 S St Clair St Dayton 2 Ohio 12-18-20

Waveline Inc
P O Box 718 Caldwell NJ 18

Weinschel Eng'g
10503 Metropolitan Ave Kensington Md 12

Whittington Pump & Eng'g Corp
1126 Prospect St Indianapolis 8 Ind 7

Wood Counter Lab N
1625 E 53 St Chicago 15 Ill 14-16

Worner Electronic Devices
Rankin Ill 17

American Brass Co
414 Meadow St
Waterbury 88 Conn 2-13-26

American Insulator Corp
New Freedom Pa 14

American Machine & Foundry Co
Gen Eng Lab 11 Bruce Pl
Greenwich Conn 17-18-21

American Perfit Crystal Corp
653 11 Ave New York 36 NY 11-25

Anchor Products Co
2712 W Montrose Ave
Chicago 18 Ill 21

Anderson Associates H V
233 Broad St Summit NJ

Anderson & Sons
N Elm St Westfield Mass 7-25

Argonne Electronics Mfg Corp
165-11 South Rd Jamaica 33 NY 7

Automatic Electric Co
1033 W Van Huren St Chicago 7 Ill 9

Bach & Co Simon
636 Greenwich St
New York 14 NY 30

Harber & Howard Co
East Ave Westbury RI 25

Barker & Williamson Inc
Canal & Beaver Sts Bristol Pa 13

Barnes Co Wallace
Div Associated Spring Corp
Hristol Conn 28

Heckman-Helipot Corp
Newport Beach Calif 7-8

Hendix Aviation Corp Friez Instrument Div
1400 Taylor Ave Baltimore 4 Md 8

Hevin Wilcox Line Co
95 Skinner St E Hampton Conn 4

Hirnbach Radio Co
145 Hudson St New York 13 NY 4-23

Holling Industries Inc
1117 N Main Ave P O Box 981
Scranton 2 Pa 8-25

Holta Products Div General Tire & Rubber Co
70 Garden St Lawrence Mass 14

Hork Equip Div George W Borg Corp
120 S Main St Janesville Wis 8

Hoston Woven Hose & Rubber Co
P O Box 1071 Boston 8 Mass 1

Hrady Co W H
727 W Glendale Ave
Milwaukee 9 Wis 6-11-12-25

British Electronic Sales
Oakland Gardens
Flushing 64 NY 16-17-18-19-20-21

British Electronic Sales Co Inc
Aerolec Electric Switch Div
Oakland Gardens
Flushing NY 16-17-18-19-20-21

Brunswick Instruments
P O Box 818 New Brunswick NJ 18

Cable Electric Products
234 Dabill St
Providence 7 RI 14-17-18-20-21

Cal-Ohm Labs Inc
Broadway & Adams St
Sterling Kansas 24-25

Cambridge Thermionic Corp
445 Concord Ave
Cambridge 38 Mass 14-22-23

Canadian Radium & Uranium Corp
830 E Ave
New York 20 NY 7-8-11-12-13-14-16-22-24-25-26

Chicago Miniature Lamp Works
1500 N Ogden Ave
Chicago 10 Ill 16-18-20-21

C & H Supply
415 E Beach Inglewood Calif 25

Circon Componenta Corp
Santa Barbara Municipal Airport
Goleta Calif 16-17-18-19-20-21

City Marking Devices Corp
12 Spruce St New York 38 NY 6-26

Clearview Co
172 Stanton St New York 8 NY 26

Cleveland Metal Specialties Co
1783 E 21 St Cleveland 14 Ohio 10-12-25

Clevite Harris Products Inc
6545 Carnegie Ave
Cleveland 8 Ohio 27

Colman Tool & Machine Co
1017 N E 3 Ave Amarillo Texas
Consolidated Molded Products Corp
309 Cherry St
Scranton 2 Pa 5-7-8-9-10-11-12-14-16-25

Croname Inc
3701 Ravenswood Ave
Chicago 13 Ill 2-5-7-8-10-11-25

Cutler Metal Products Co
1025 Line St Camden 3 NJ 10

Dale Products Inc
P O Box 136
Columbus Nebr 7-8-10-11-12-13-14-16-22-23-24-25-26

Dalmore Corp
47 Prospect St Woburn Mass 23

Davies Molding Co Harry
1428 N Wells St Chicago 10 Ill 14

Dietz Co Henry G
12-16 Astoria Blvd
Long Island City 8 NY 7-25

Dimco-Gray Co
207 E 6 St Dayton 2 Ohio 14

D&M Products
1314 W McNichols Rd Detroit 35 Mich 23

Drake Mfg Co
1713 W Hubbard St
Chicago 22 Ill 16-17-18-19-20-21

Dry Screen Process Inc
1016 Madison Ave
Pittsburgh 12 Pa 11-12-25

25—DIALS & FRONT PANEL ACCESSORIES

Belts 1

Bezels 2

Chains 3

Cords 4

Crystals 5

Decalcomanias 6

Dials, complete 7

Dials, precision 8

Dials, telephone 9

Escutcheons 10

Faceplates 11

Faces 12

Knobs, metal 13

Knobs, molded 14

Knobs, wood 15

Lights, dial 16

Lights, dial assembly 17

Lights, indicator 18

Lights, jewel pilot 19

Lights, miniature 20

Lights, panel 21

Locks, dial 22

Locks, shaft 23

Luminous Markers 24

Nameplates 25

Pointers, dial 26

Rubbers, drive 27

Springs, knob 28

Tabs 29

Windows, glass 30

Windows, metallized 31

Accurate Electronics Corp
149 S Abbe Rd S E
Elyria Ohio 14

Ackerman Engravers
458 Broadway
New York 13 NY 7-8-13-26

Aeromark City Inc
809 Morrell St Elizabeth NJ 7-8-25

Acton Laboratories
533 Main St Acton Mass 8-14-26

Aerolite Electronics Corp
2207 Summit Ave
Union City NJ 16-17-18-19-20-21

Aetna Supply Inc
15 N Hickory St
Arlington Hts Ill 13-16-21-22-25

Aircraft & Electronic Specialties
22 S Green St
Brownsburg Ind 26

Alden Products Co
12358 N Main St
Brookton 64 Mass 14-16-18-19-20-21

Allied Engraving & Stamping Co
17 Elm St Buffalo 8 NY 7-8-10-11-25

Allied Allegri Co
141 River Rd Nutley 10 NJ

Duralith Corp 1025 Race St Philadelphia 7 Pa	6-7-11-24-25	Jacksonville Metals Plastics Co 575 Dora St Jacksonville Fla	7-8-11-24-25	Norrish Plastics Corp 105 W 18th St New York 16 NY	13-14-15
Eastern Etching & Mfg Co Grape St Chicopee Mass	7-11-12-13-25	Janco Corp 3111 Winuna Ave Burbank Calif	14	Nursid Mfg Co 33 Prospect St Yonkers 1 NY	6
Eby Co H H 4700 Germantown Ave Philadelphia 44 Pa	14	Jan Hardware Mfg Co 75 N 11 St Brooklyn 11 NY	2-10-13-14	North Electric Co 553 S Market St Galion Ohio	7-8-9
Eldems Corp 1805 Belcroft Ave El Monte Calif	18-19-20-21	Jaycox P O Box 646 Redlands Calif	10-11	Northern Industrial Chemical Co 7 Eikins St S Boston 27 Mass	14
Electrical Specialty Co 158 11 St San Francisco 3 Calif	20	JFD Electronic Corp 4101 16 Ave Brooklyn 4 NY	1-4-26-27	Northern Metal Products Corp 5699 W Grand Ave Franklin Park Ill	2-10-11
Electri-Wire Assemblies 700 W Virginia Milwaukee 4 Wis	4	Jodee Plastics Co 213 Shepherd Ave Brooklyn 3 NY	7-8-10-14-25-26	North Shore Nameplate Inc 214-27 Northern Blvd Bayside 61 NY	10-25
Electro-Mechanical Instrument Co 8 & Chestnut St Perkasie Pa	7-25	Johnson Co E F 206 2 Ave S W Wasson Miss	7-10-14-16-17-18-19-20-21	Olympic Plastics Co 3471 S Lacienga Blvd Los Angeles 16 Calif	14
Electro Snap Switch & Mfg Co 4218 W Lake St Chicago 24 Ill	18-20-21	Johnson Research Corp Bethpage LI NY		O & S Research Inc 1811 Hannard St Riverton NJ	18-30-31
Elms Lamin 10 Washington Ave Hastings-On-Hudson NY	8	Jones Electronics Hiram 2312 W Olive St Burbank Calif	14-14-23	Pacific Transducer Corp 1836 W Pico Blvd Los Angeles 64 Calif	13
Elzee Metal Products Co 753 39 St Brooklyn 32 NY	25	Kell Eng'g Products Co 6835 Baker Ave St Louis 10 Mo	23	Pacific Universal Products Corp 165 Vista Ave Pasadena 8 Calif	30-31
Emeloid Co 1238 Central Ave Hilaid-5 NJ	12-14-25-29	Keystone Electronics Corp 49 Bleeker St New York 12 NY	22-23	Palmer Inc M V 4002 Fruit Valley Rd Vancouver Wash	9
Emerson Plastics Corp Seabury Ave & Butler Pl Bronx 61 NY	8-11-25-26	Kirkland Co H R 3 King St Morristown 4 NJ	16-17-18-19-20-21	Park Nameplate Co 34-10 Linden Pl Flushing 54 NY	2-7-8-12-13-25
Eum Corp 675 Barley St Brooklyn NY	2	Kliegl Bros 321 W 40 St New York 19 NY	21	Paul & Heckman 1801 W Courtyard St Philadelphia 40 Pa	2-10-11-12
Eric Resistor Corp 644 W 12 St Eric 6 Pa	2-10-11-14-25	Kost Products Co 2385 N Cicero Ave Chicago 39 Ill	28	Pee Cee Tape & Label Co 521 N La Brea Ave Los Angeles 36 Calif	5-25
Etched Products Corp 39-01 Queens Blvd Long Island City 4 NY	2-8-10-11-25	Krengel Mfg Co 27 Fulton St New York 7 NY	25	Permonite Mfg Co 444 Lake Shore Dr Chicago 11 Ill	16-17
Fray Co Neal 427 Olive St Santa Barbara Calif	7-8-13-25	LA Moore Co D 2433 Hirkide St Los Angeles 81 Calif	25	Photo Chemical Prod of Calif 1745 Berkeley St Santa Monica Calif	7-8-9-11-12-25
Federal Screw Products Inc 3917 N Kedzie Ave Chicago 19 Ill	19-21	Lancaster Glass Corp Lancaster Ohio	10-11-14-25-30	Plasteck Inc P O Box 551 Poteau Okla	7-8-10-11-13-14-16-17-18-19-21-25-26
Felenthal & Sons Inc G 3500 N Kedzie Ave Chicago 18 Ill	7-8-9-10-14-18-19	Lawter Chemicals Inc 3550 Touhy Ave Chicago 45 Ill	24	Plastic Accessories Inc 91 Mercer St New York 12 NY	8-25-26
Fisher & Crome 189 N Camden St Phila 7 Pa	25	Lennard Co Inc P M 1061 E 8 St Jacksonville 6 Fla	25	Poray Inc 3329 W Grand Ave Chicago 51 Ill	2-10
Fries Instrument Div Bendix Aviation Corp 1400 Taylor Ave Baltimore 4 Md	8	Lepro Electronics Inc 501 S Varney St Burbank Calif	22-23	Precision Metal Products Co 41 Elm St Stoneham Mass	28
Fusion Products Div Aetna Supply Inc 15 N Hickory St Arlington Heights Ill	10-11	Libbey-Owens Ford Glass Co 608 Madison Ave Toledo 3 Ohio	80	Printed Cellophane Tape Co 521 N La Brea St Los Angeles 36 Calif	6-25
Gaertner Scientific Corp 1250 Wrightwood Ave Chicago 14 Ill	30	Litton Industries of Calif 336 N Foothill Rd Beverly Hills Calif	13	Printloid Corp 93 Mercer St New York 12 NY	8-25-26
Gates Radio Co 123 Hampshire St Quincy Ill	7-10-25	Litton Industries Components Div 5878 Rodeo Rd Los Angeles 16 Calif	13-22-23-26	Quality Nameplate Inc Fisher Hill Rd E Glastonbury Conn	10-25
Gen-Lar Mfg Co 414 S Wyman St Rockford Ill	13-14	Luminous Process Inc 161 E 42 St New York 17 NY	7-8-24-26	Radio Essentials Inc 152 Macquesten Pkwy Mt Vernon NY	16-17-18-19-20-21
General Components Inc 226 E 144 St Bronx 51 NY	23-23	Lyle Eng'g & Mfg Co 1404 San Mateo Blvd SE Albuquerque New M	7-8-11	Rauland-Borg Corp 3585 W Addison St Chicago 18 Ill	8-10-22
General Controls Co 801 Allen Ave Glenale 1 Calif	8-22	Master Etching Corp 50 Honeck St Englewood NJ	10-11-26	Raybestos-Manhattan Inc 61 Willet St Passaic NJ	1
General Electric Co Apparatus Sls Div 1 River Rd Schenectady 8 NY	2	Matchless Electric Co 1700 Washington Blvd Chicago 12 Ill	16-18-20-21	Raytheon Mfg Co Commercial Equip Div 100 River St Waltham 54 Mass	14-22-23
General Electric Co Miniature Lamp Dept Nela Park Cleveland 12 Ohio	16-18-20-21	Mayfair Molded Products Corp 3700 N Rose St Schiller Park Ill	14	Raytheon Mfg Co 100 River St Waltham 54 Mass	14-23
General Radio Co 275 Massachusetts Ave Cambridge 39 Mass	7-8-14	Maymer Corp 1961 W 112 St Cleveland 2 Ohio	12-25	Reeves Instrument Corp Roosevelt Field Garden City NY	8
General Railway Signal Co P O Box 600 Rochester NY	18-19-21	Metal Specialty Products Corp 27-01 Brooklyn Queens Expressway W Woodside 77 NY	7-8-13-22-23-26	Reiner Electronics Co Centre & Glendale Sts Easton Pa	13
General RF Fittings Inc 702 Beacon St Boston 15 Mass	14	Meyercood Co 5323 W Lake St Chicago 44 Ill	6-25	Reliable Spring & Wire Forms Co 3167 Fulton Rd Cleveland 9 Ohio	28
Glass & Bro Harry H 10 Van Cortlandt Ave E New York 18 NY	25	Mira Insulator Co 797 Broadway Schenectady 1 NY	8-11-25	Republic Rubber Div Lee Rubber & Tire Corp 1410 Albert St Youngstown 1 Ohio	27
Glass-Solder Eng't 4232 Temple City Blvd Rosemead Calif	30-31	Mid-West Spring Mfg Co Etna St Mentone Ind	28	Rofan Co Topfield Mass	13-14
Goe Eng'g Co 219 S Mednik Ave Los Angeles 22 Calif	23	Millen Mfg Co James 150 Exchange St Malden 48 Mass	2-7-8-13-14-22-23-26	Rogan Bros 8031 N Monticello Skokie Ill	2-7-10-14
Golden Co 1054 38 St Brooklyn 19 NY	2-10-11	Miller Dial & Nameplate Co 4400 N Temple City Blvd El Monte Calif	6-7-21	Rohden Mfg Co Inc 4739 W Montrose Ave Chicago 41 Ill	14
Gray Pantograph Engraving 200 Washington St Hoboken NJ	6-7-8-13-14-16-17-18-19-20-21-25-29-30	Milwaukee Stamping Co 800 N 72 St Milwaukee 14 Wis	26	Romar Plastics Inc 1311 E Main St St Charles Ill	7
Green Rectifier Co 1-10 30 St Fairlawn NJ	16-17-18-19-21-31	Mitronics Inc 1290 Central Ave Hillside NJ	31	Rubbercraft Corp of Calif 1800 W 220 St Torrance Calif	14
Gudebrod Bros Silk Co 225 W 34 St New York 1 NY	4	Molded Insulation Co 335 E Price St Philadelphia 44 Pa	14	Safetec Glass Co 4717 Stenton Ave Philadelphia 44 Pa	30-31
Hackensack Cable Corp 110 Orchard St Hackensack NJ	4	Molded Products Div Admiral Corp Washington & Creamery Rd Washington 14	14	Sampson Chemical & Pigment Corp 2830 W Lake St Chicago 12 Ill	7-8-24-26
Hamilton Glass Co 2750 W Grand Ave Chicago 12 Ill		Molding Corp of America 68 Weybosset St Providence 3 RI	14	Semrow Products Co 4317 N Ravenswood Ave Chicago 13 Ill	2-10-11-25
Hays Mfg Co 803 W 12th St Erie Pa	11-25	Monaghan Co J J 500 Alcott St Denver 4 Colo	13	Servomechanisms Inc 1200 Prospect Ave Westbury NY	8
Helipot Corp Newport Beach Calif	7-8	Muirhead Instruments Inc 677 5 Ave New York 22 NY	8-14	Sightmaster Corp 50 Aleppo St Providence RI	7-8-11-25-26
Henrite Products Corp 2514 S 3 St Ironton Ohio	27	Mutual Electronics Industries Inc 50 Aleppo St Providence RI	7-8-11-14-25-26	Sillecocks-Miller Co 10 W Parker Ave Maplewood NJ	5-8-9
Hermetic Pacific Corp 4232 Temple City Blvd Rosemead Calif	30-31	Nameplates Inc 421 E 101 St Brooklyn 36 NY	10-12-25	Simpson Optical Mfg Co 3200 W Carroll Ave Chicago 24 Ill	30-31
IE Mfg 326 N Hoyne Ave Chicago 12 Ill	10	National Company Inc 61 Sherman St Malden 48 Mass	7-8-13-14-22-23-26	Sinclair Mfg Co S Worcester St Charley Mass	18
Industrial Devices Inc 982 River Rd Edgewater NJ	14-15-16-18-19	Newcomb Spring of Conn 510 Queen St Southington Conn	28	Smith Inc Herman H 2326 Nostrand Ave Brooklyn 10 NY	14-16-17-18-19-23-25-26
Industrial Engrs Inc 2212 McDonald Ave Brooklyn 23 NY	8-11-25	New England Etching & Plating Co Spring St Holyoke Mass	8-25	Soderberg Mfg Co 628 S Palm Ave Alhambra Calif	16-17-18-19-20-21
Insuline Corp of America 186 Granite St Manchester NH	7-13-14	Nichols Products Co 925 W Main St Monroestown NJ	7-8	Southern Plastics Co 408 Pendleton SC	2-10-11-14
		Norco Products Mfg Co 300 Bleeker St New York 14 NY	24	Stokes Molded Products Div Electric Storage Battery Co 241 Taylor St Trenton 4 NJ	14
		Norzren Stamac 1277 S Cherokee Denver 28 Colo	25	Stromberg-Carlson Div General Dynamics Corp 100 Carlton Rd Rochester 3 NY	4-7-9-9
				Sun Dial Corp P O Box 326 Caldwell NJ	7-8

Swenson Co V H
356 Elm St Arlington NJ 5-7-10-14-26
Sylvania Electric Products Inc Parts Div
12 2nd Ave Warren Pa 14-18-21
Symphony Electronics Corp
925 S Western Ave Los Angeles 6 Calif 18-14
Table & Ticket Co
1021 W Adams St Chicago 7 Ill 6-24
Taffet Radio & TV Co
27-05 Brooklyn-Queens Expressway W
Woodside 77 NY 7-8-18-26
Taylor Instruments Companies
85 Ames St Rochester 1 NY 25
Technical Oil Tool Corp
1057 N La Brea Los Angeles 88 Calif 7-8
Technicraft Co
1156 Commonwealth Ave Boston 84 Mass 7
Techniques Inc
52 Jackson Ave Hackensack NJ 8-25-26
Telectro Industries Corp
35-18 37 St Long Island City 1 NY 1-10
Telex
1633 Euclid St St Paul 1 Minn 14
Temco Aircraft Corp
P O Box 6191 Dallas 2 Texas 21
Theta Instrument Corp
48 Pine St E Paterson NJ 7-8
Toman & Co E
8700 W 47 St Lyora Ill 18-14-26
Touch-Plate Mfg Corp
P O Box 1970 Long Beach 1 Calif 18
Tracerlab Inc
1601 Trapelo Rd Waltham 54 Mass 24
Transistor Electronics Co
3357 Republic Ave Minneapolis 26 Minn 21
Tronex Inc
Wheaton Ave Millvale NJ 31
Trump Dr Walter N
516 S Vermont Columbus Kan 8-25
Ucinite Co Div United-Carr Fastener Corp
459 Watertown St Newtonville 60 Mass 19-20
Ultra-Violet Products Inc
5114 Walnut Grove Ave San Gabriel Calif 24
Union Fabricators & Electronics Inc
Myrtle & Water Sts
Stillwater Minn 2-7-14-18-20
U S Radium Corp
1-2-5-7-8-10-11-12-13-
Morristown NJ 14-17-24-25-26-29
Vari Equip Co
P O Box 48 W Cornwall Conn 25
Victory Mfg Corp
1722 W Arcade Pl Chicago 83 Ill 2-14-25
Vocalite Screen Corp
19 Debevoise Ave Roosevelt NY 11-26
Waldom Electronics Inc
4625 W 88 St
Chicago 32 Ill 7-8-10-11-14-22-23-26-26
Waltham Precision Instrument Co
221 Crescent St Waltham 54 Mass 8-24
Waltham Screw Co
77 Rutherford Ave Waltham 54 Mass 13-23
Waters Mfg Inc
Boston Post Rd Wayland Mass 22-23
Western Felt Works
4029 Ozden Ave Chicago Ill 27
Wheaton Co T C
Millville NJ 18-14
Winder Aircraft Corp of Fla
P O Box 2397 Drane Fld
Lakeland Fla 7-11-25
Winslow Co
701 Lehigh Ave Union NJ 14
Wisconsin Porcelain Co
121 Lincoln St Sun Prairie Wis 14
Woodbury Glass Co
34 Burnside Ave E Hartford 8 Conn 80-81

26—FILTERS

Filters, antenna 1
Filters, audio 2
Filters, bandpass 3
Filters, band rejection 4
Filters, crystal 5
Filters, equalizer 6
Filters, high pass 7
Filters, IF 8
Filters, interference 9
Filters, line 10
Filters, low pass 11
Filters, mechanical 12
Filters, microwave 13
Filters, needle scratch 14
Filters, noise suppressing 15
Filters, radio interference 16
Filters, radio tower lighting 17
Filters, R-F 18
Filters, SSB 27
Filters, screen room 19
Filters, telemetering 20
Filters, TV 21
Filters, UHF-VHF 22
Filters, variable 23
Filters, vestigial sideband 24
Filters, video 25
Filters, wavetrap 26

Adler Electronics Inc
1 Lefevre Lane New Rochelle NY 1-11-18
Advance Electronics Co
8510 North End Ave Oak Park 37 Mich 26
Aerovox Corp Pacific Coast Div
2724 S Peck Rd 3-4-7-8-9-10-11-15-16-
Monrovia Calif 18-19-20-22-24-25-26
Aerovox Corp
740 Belleville Ave 3-4-6-7-8-9-10-
New Bedford Mass 11-16-18-20-26
Airborne Accessories Corp
1414 Chestnut Ave
Hillsdale 5 NJ 7-9-11-15-18
Aircrom Inc
354 Main St Winthrop Mass 13-23
Aircrom Inc
139 E 1st St Roselle NJ 12
Airdesign Corp
241 Fairfield Ave
Upper Darby Pa 2-3-4-7-11-20
Air-Maze Corp
25000 Miles Rd Cleveland 26 Ohio 12
Airtron Inc
1108 W Elizabeth Ave Linden NJ 13-15
Alectra
Div Consolidated Electrodynamics Corp
325 N Altadena Dr 1-2-3-4-7-11-20-24-27
Pasadena Calif
Alford Mfg Co
298 Atlantic Ave Boston 10 Mass 11-24
Allen-Bradley Co
136 W Greenfield Ave
Milwaukee 4 Wis 11-22
Allison Labs Inc
14185 Skyline Dr
La Puente Calif 2-3-7-11-23
All-Tronics Inc
45 Bond St Westbury NY 9-10-16
American Communications Corp
280 Broadway New York 17 NY 21-22-25-26
American Electronic Laboratories
121 N 7 St 1-3-4-5-7-9-
Philadelphia 6 Pa 11-13-18-22-23
American Electronics Co
1205 Bryant Ave
New York 69 NY 1-3-4-7-11-16
Amphenol Electronics Corp
1830 S 54 Ave Chicago 50 Ill 7
Amtron Corp
17 Felton St Waltham 54 Mass 1-18-22
Anderston Electronic Lab
129 E 1800 S St
Bountiful Utah 2-3-7-11-26
Andren Antenna Corp
668 Beech St
Whitby Ontario Can 1-17-18-22
Antenna & Radome Research Assoc
1 Bond St Westbury NY 1-3-4-13-18-22
Antennavision Inc
2949 W Osborn
Phoenix Ariz 1-3-7-11-18-21-24
Applied Research Inc
76 S Bayles Ave
Port Washington NY 3-4-13-16-18-22
A R F Products Inc
P O Box 57 Ranton NM 15
Ark Eng'g Co
481 W Tabor Rd 1-3-4-7-8-9-10-
Phila 20 Pa 11-13-16-18-22
Arrow Radio Co
1829 Davenport Rd Toronto Ontario Can 9
Arted Co
857 Worthington St Springfield 3 Mass 18-26
Astron Corp
255 Grant Ave E
Newark NJ 3-4-7-9-10-11-15-16-18-19
Atlas Coil Corp
63 Main St
Ansonia Conn 3-4-7-10-11-16-20
Audio Development Co
2833 18 Ave S
Minneapolis Minn 2-3-4-6-7-11-20
Avion Div ACF Industries Inc
11 Park Pl Paramus NJ 13
Avionics Ltd P O Box 200
Niagara-on-the-Lake Ontario Canada 13
Axel Bros Inc/Electronics Div
134-20 Jamaica Ave
Jamaica 18 NY 9-10-11-16-18-19
Axler Associates Inc
102-42 43 Ave New York 68 NY 9
Barker & Williamson Inc
Canal & Beaver Sts 1-2-3-4-7-8-9-10-
Bristol Pa 11-16-17-18-24-26
Bendix Aviation Corp Pacific Div
11600 Sherman Way
N Hollywood Calif 3-11-20
Bergen Labs
247 Crooks Ave Clifton NJ 22
Blackburn Electronic Corp
55 W 7 St Wyoming Pa 11
Bliley Electric Co
Union Station Bldg Erie Pa 5
Blonder-Tongue Laboratories
9-25 Alling St Newark 2 NJ 4-6-10-22
Bogart Mfg Corp
315 Seigel St Brooklyn 6 NY 3-18
Breen Labs
1620 Evergreen Rd Williamsport Pa 5
Browning Labs Inc
750 Main St Winchester Mass 2-3-4-11
Budd Stanley Co
43-01 22 St Long Island City 1 NY 18
Bulova Watch Co Electronics Div
40-01 61 St 3-4-5-7-8-
Woodside 77 NY 11-16-20-24-27

Bundy Electronics Corp
171 Fabjar Pl
Newark 12 NJ 2-3-4-7-9-10-11-20
Burnell & Co
10 Pelham Pkwy 1-2-3-4-5-6-7-8-
Pelham Manor NY 11-16-20-24-26-27
Caddell-Burns Mfg Co
40 E 2 St Mincola NY 3-7-8-11-18
Caledonia Electronics & Transformer Corp
P O Box 298 Caledonia NY 2-3-4-7-11
Calif Magnetic Control Corp
11922 Valerio St N Hollywood Calif 2
Cambridge Filter Corp
738 Erie Blvd E Syracuse 3 NY 12
Cambridge Thermionic Corp
445 Concord Ave
Cambridge 38 Mass 3-4-7-8-9-10-11-18
Capitol Transcription Service
1120-A Conn Ave NW Washington 6 DC 2
Carad Corp
2850 Bay Rd
Redwood City Calif 3-4-7-11-13-18-20
Carnf Co
P O Drawer 554
Brookhaven Mass 7-9-10-11-16-18-19
CELCO Constantine Eng'g Labs Co
P O Box 555 Mahwah NJ 2-3
CG Electronics Corp
1500 Central St Albuquerque NM 1-3-20
CGS Laboratories Inc
Routes 7 & 35
Ridgefield Conn 1-3-7-11-18-22
Channel Master Corp
Ellenville NY 1-3-7-11-21-22
Chicago Electronic Eng'g Co
3223 W Armitage Ave
Chicago 47 Ill 2-3-4-7-9-10-11-16
Chicago Magnetic Control
1616 N Damen Ave
Chicago 47 Ill 2-3-4-7-9-10-11-15
Chicago Standard Transformer Corp
8501 W Addison St Chicago 18 Ill 2-3-4-7-11
Cinema Eng'g Div Aerovox Corp
1100 Chestnut St
Burbank Calif 2-3-6-7-10-11-23
Cinema-Television Ltd
Worsley Bridge Rd Lower Sydenham
London S E 26 England 21
Clegg Labs Div Clegg Inc
Ridgedale Ave 1-3-4-7-9-11-
Morristown NJ 16-21-22-26
Clippard Instrument Lab
7390 Colerain Ave Cincinnati 39 Ohio 1-7
Coast Coil Co
5333 W Washington Blvd
Los Angeles Calif 2-3-4-7-11
Coils Electronics Co
2939 49 N 2nd St
Phila 33 Penna 3-8-16-18
Coil Winders Inc
30 New York Ave
New Canaan 1-2-3-4-6-7-8-9-
Westbury LI NY 10-11-14-15-16-18-19-
Collins Radio Co
855 55 St NE
Cedar Rapids Iowa 1-3-8-12-13-22
Commercial Filters Corp
2 Main St Melrose 76 Mass 10-12
Communication Accessories Co
U S 50 Hwy 2-3-4-6-7-8-9-10-11-13-14-16-
Lees Summit Mo 16-18-19-20-21-24-25-26-27
Community Eng'g Corp
Box 824 State College Pa
Consolidated Electrodynamics Corp
300 N Sierra Madre Villa
Pasadena Calif 3-4-7-8-11-16-18
Continental Electronics Ltd
302 Oakland St
Brooklyn 22 NY 2-3-7-8-11-15
Control Circuits Inc
103 Court St Middletown Conn 4
Control Electronics Co Inc
1925 New York Ave
Huntington Sta NY 13-22
Controlled Atmosphere Enclosures Corp
230-11 141 Ave
Springfield Gardens LI NY 12
Corbin Corp
5419 56th Pl Riverdale Md 1-3-4-9-16-27
Cornell-Dubilier Electric Corp
333 Hamilton Blvd S 2-3-4-6-7-8-
Plainfield NJ 9-10-11-15-16-18-19
Cossar Canada Ltd
301 Windsor St Halifax
Nova Scotia Canada 1-2-9-11-18-22
Creative Electronics Corp
94 Lincoln Ave
Stamford Conn 3-7-11-18-27
Crown Engineering
3821 Commercial NE Albuquerque NM 8
Cyclic Transformer Corp
884 Glenwood Ave E Orange 11 NJ 2-3-4-7-11
Dallona Labs
4066 Santa Monica Blvd
Los Angeles 29 Calif 5
Daven Co
Route 10
Livingston NJ 1-2-3-4-5-6-7-8-9-11-18-20-22-27
Dayton Aviation Radio & Equipment Corp
P O Box 234 Troy Ohio 5-8-9-10-11-15-16-22
Decoursey Eng'g Lab
11828 W Jefferson Blvd
Culver City Calif 2-3-4-7-11-20
Defiance Eng'g & Microwave Corp
Beverly Airport
Beverly Mass 1-3-13-18-22-23-24-26

DeMornay-Bonardi Corp 780 S Arroyo Pkwy Pasadena Calif	11	General Electric Co Specialty Electronic Component Dept W Genesee St Auburn NY	2	Lambda-Pacific Eng's Inc 14725 Arminta St Van Nuys Calif	11
Deutschmann Corp Tobe Providence Hwy Nurwood Mass	1-2-3-4-6-7-8-9-10-11-13- 15-16-17-18-19-21-22-26-27	General Instrument Corp F W Sickles Div 165 Front St Chicopee Mass	3-8-11	Langevin Mfg Corp 4737 Austell Pl Long Island City 1 NY	2-3-4-6-7-11
Devol Research Co Brookdale Dr Greenwich Conn	7-11	General Radio Co 275 Massachusetts Ave Cambridge 39 Mass	2-3-11-18-22	Lear Inc 3171 S Bundy Dr Santa Monica Calif	1-9
Dismond Antenna & Microwave Corp 7 North Ave Wakfield Mass	1-3-4-5-7-11-13-18	Geotronic Labs Inc 1314 Cedar Hill Ave Dallas 8 Texas	2-3-6-7-11-20	Leonard Electric Products Co 87 34th St Brooklyn 32 NY	1-2-3-8-9-13-16-18-21-25-26
Dielectric Products Eng's Co Raymond Me	1-3-7-11-22-24	Glaser-Steers Corp 20 Main St Belleville 9 NJ	6	Lieco Inc 3610 Oceanside Rd Oceanside NY	13-22
Donner Scientific Co 400 Galindo St Concord Calif	11-20	Goslin Electric & Mfg Co 2921 W Olive Ave Hurbank Calif	2-8-9	Ling Electronics Inc 9937 Jefferson Blvd Culver City Calif	3-6
D & R Ltd 402 E Gutierrez St Santa Barbara Calif	2-3-4-7-11-20-27	Gramer-Halldoran Transformer Corp 2784 N Pulaski Rd Chicago 39 Ill	2-3-11	Link-Radio Corp 110 Jericho Turnpike New Hyde Park LI NY	22
DX Radio Products Co 2300 W Armitage Ave Chicago 47 Ill	2-3-4-5-6-7-8-9-10-11- 14-15-16-18-19-21-22-25-26	Granger Associates 966 Commercial St Palo Alto Calif	1-3-9-18-16-18-22	Luther Mfg Co 7812 Varna Ave N Hollywood Calif	18
Dynamic Electronics Inc 73-29 Woodhaven Blvd Forest Hills NY	1-2-3-4-7-8-9-10-11-12- 13-14-15-16-21-22-23-24-26-26	Gray & Kuhn 20 Railroad Ave Roslyn Heights NY	3-4-8-11-18-26	Lynch Carrier Systems Inc 695 Bryant St San Francisco 7 Calif	3-4-6-7-10-11
Eagle Electronics Corp P O Box 775 Meriden Conn	1-2-3-4-7-9-10- 11-15-16-18-23-25-26	Green Rectifier Co 1-10 30 St Fairlawn NJ	11	Lynmar Engineers Inc 1482 N Carlisle St Philadelphia 21 Pa	1-2-3-4-7-8-9- 10-11-18-22
Eastman Kodak Co 343 State St Rochester 4 NY	9	Gudeman Co 349 Huron St Chicago 10 Ill	2-8-7-9-10-11-15-16-18	McCoy Electronics Co Chestnut & Watts Sts Mt Holly Springs Pa	6
Klear Inc P O Box 354 McLean Va	9-10-16	Gulton Industries Inc 212 Durham Ave Metuchen NJ	11-20	Mack Electronics Div Inc 1000 S 2 St Plainfield NJ	1-2-11-18-22
Eldico Electronics 29-01 Barden Ave Long Island City 1 NY	1-3-4-5-7-9- 10-11-18-24-27	Hallamore Electronics Co 8352 Brookhurst Ave Anaberm Calif	2-3-4-7-11-20	Magnavox Corp 2181 Bueter Rd Ft Wayne 4 Ind	18
Electrical Windings Inc 2015 N Kolmar Ave Chicago 39 Ill	2-26	Hallett Mfg Co 5910 Bowercraft St Los Angeles Calif	9-15-16	Magnetic Instrument Co 546 Commerce St Thornwood NY	2-7-11
Electro Assemblies Inc 444 N Kedzie Ave Chicago 25 Ill	3-4-7-8-11-18	Harder Co Donald C 8710 Midway Dr San Diego 10 Calif	2-3-4	Mahoney Teletronic Labs Inc 209 16 Ave Newark 8 NJ	19-21
Electronic Designs Inc 28 School St Yonkers NY	9	Harris Transducer Corp Box 247 Woodbury Conn	2-3-4-12	Mallory & Co Inc P R 42 S Gray St Indianapolis 6 Ind	3-18-22
Electronic Specialty Co 5121 San Fernando Rd Los Angeles 39 Calif	1-3-4-7-11-13-18-22	Hermetic Seal Transformer Co 555 N 5 St Garland Texas	2-3-4-7-8-10-11	Mandrel Industrial Instruments Div Mandrel Industries Inc 5134 Glenmont Dr Houston Texas	2-3-4-7-11-23
Electronic Transformer Co 70 Washington St Brooklyn 1 NY	1-2-3-4-7-11	Hewlett-Packard Co 275 Page Mill Rd Palo Alto Calif	11-13	Maryland Electronic Mfg Corp 5009 Calvert Rd College Park Md	13-18
Electron Products Inc 430 N Halstead St Pasadena 8 Calif	9-15-16	Highland Eng Co 90 Magnolia St Westbury NY	2-3-4-7-11	Melpar Inc 3000 Arlington Blvd Falls Church Va	13
El-Rud Mfg Co 2800 W Cullom Ave Chicago 18 Ill	1-2-3-4-6-7-8-9-11-18-26-27	Hill Electronic Eng & Mfg Co 300 N Chestnut St Mechanicsburg Pa	3-4-5	Merit Coil & Transformer Corp 2027 Sherman St Hollywood Fla	1-2-3-7-8-9-10-16-21-25-26
Entron Inc 4802 Lawrence St Bladensburg Md	1-3-4-6-7-10-18-21-22-23-26	Hoffman Electronics Corp 3761 S Hill St Los Angeles 7 Calif	1	Meridian Metalcraft Inc 8739 S Millergrove Dr Whittier Calif	3-4-11-13
Esco Inc 386 Commonwealth Ave Boston 15 Mass	3-11-20	Holt Instrument Labs Div Holt Harkwood Co Inc Oronto Wisc	2	Metavac Inc 45-68 162 St Flushing 59 NY	9
Evona Corp 551 Fifth Ave New York 17 NY	9-15	Hopkins Eng Co 12900 Foothill Blvd San Fernando Calif	9-10-11-15-16-18-19	Miramold Electronics Mfg Corp 1087 Flushing Ave Brooklyn 37 NY	9-10-11-15-16
ESC Corp 534 Bergen Blvd Palisades Park NJ	3-4-7-11-18-22	Hughes Products Hughes Aircraft Co 5340 W 104 St Intl Airport Sta Los Angeles 45 Calif	5	Microlab Okner Pkwy Livingston NJ	1-3-4-5-6-7-9-10-11-13- 16-18-19-20-21-22-23
Essex Electronics Div NYT Electronics Inc 1703 Atoll Ave N Hollywood Calif	1-7-8-11-18	Hupp Electronics Co Div Hupp Corp 265 E Pomfret St Carlisle Pa	5	Microphase Corp Box 1186 Greenwich Conn	1-3-4-6-7-8-9-11-13-16-18- 19-20-21-22-23-24-26
Essex Electronics 550 Springfield Ave Berkeley Heights NJ	3-4-8-18	Hycan Eastern Inc 75 Cambridge Pkwy Cambridge 42 Mass	3-4-5-8-9-20-27	Microtech Inc 2975 State St Hamden 17 Conn	13
Farrand Controls Inc 4401 Bronx Blvd New York 70 NY	9	I D E A Inc 7900 Pendleton Pk Indianapolis 26 Ind	7	Microtran Co 145 E Mineola Ave Valley Stream NY	2
Federal Telecommunication Labs Div IT&T 937 Commercial St Palo Alto Calif	3-7-8-11-23	Inductor Eng's Inc 117 Schley Ave Lewes Del	2-3-4-7-11-20	Microwave Development Labs 92 Broad St Balston Park 57 Mass	13
Ferrotitan Electronics Co 593 Broadway New York 12 NY	3-8	Industrial Condenser Corp 8243 N California Ave Chicago 18 Ill	9-10-16-18-19	Microwave Eng'g Labs Inc 943 Industrial Ave Palo Alto Calif	13
Filttron Co 10023 W Jefferson Blvd Culver City Calif	1-3-4-7-8-9-10-11- 13-15-16-18-19-20	Industrial Development Eng's Assoc 7900 Pendleton Pk Indianapolis Ind	7	Midian Mfg Co 8155 Fiberglass Rd Kansas City 15 Kansas	8
Filttron Co 131-15 Fowler Ave Flushing 55 NY	9-10-11-15-16-18-19	Industrial Transformer Corp Gouldboro Pa	2-3-4-7-8-9-11	Millen Mfg Co James 150 Exchange St Malden 48 Mass	5-9
Fish-Schurman Corp 70 Portman Rd New Rochelle NY	9-10	Interference Measurement Lab Inc 907 E 51 St Brooklyn 3 NY	9-16-18-19	Miller Co J W 5817 S Main St Los Angeles 3 Calif	1-4-7-8-9-10-11-14-15- 16-17-18-21-23-25-26
Fleetwood Labs Inc 700 Victory Blvd New Rochelle NY	3-11	International Electronics Corp 81 Spring St New York 12 NY	7-11	Millipore Filter Corp 36 Pleasant St Watertown 72 Mass	12
Flow Corp 85 Myrtle St Arlington Mass	2-11	International Research & Development Corp P O Box 55 Worthington Ohio	3	Milwaukee Transformer Co 5231 W Hopkins St Milwaukee 12 Wis	2-3-7-11
Forbes & Warner Inc 343 Central Ave Silver Creek NY	2-3-4-5-7-8-9-10-11- 16-18-19-20-26	International Resistance Co 401 N Broad St Philadelphia 8 Pa	8-7-11-20-23	Mine Safety Appliances Co 261 N Braddock Ave Pittsburgh 8 Pa	12
Foster Transformer Co 3820 Colerain Ave Cincinnati 23 Ohio	2-3-4-7-10-11	Jackson Electronics Inc 23 Woodcrest Rd West Chester Pa	3-8-18-18-22	Minltran Corp 5 Oliver St Newark 2 NJ	3-3-4-6-7-11
Foto-Video Labs Inc 25 Amity St Little Falls NJ	21-25	Jerrold Electronics Corp 28 & Chestnut Sts Philadelphia 3 Pa	3-21	Missileonics Inc P O Box 716 Melbourne Fla	20
Freud Transformer Co 17-18-36 Weirfield St Brooklyn 27 NY	2-3-4-6-7-10-11-20-24	JFD Electronic Corp 6101 16 Ave Brooklyn 4 NY	7-9-10-11-26	Mitchell Industries Inc Municipal A P P O Box 17 Mineral Wells Texas	15
Frequency Standards Inc P O Box 504 Asbury Park NJ	1-3-4-13-18	Johnson Co E F 206 S Ave 8 W Waseca Minn	1-3-11-17-18	Mobil Electronics Mfg Co 1111 State Rd 67 E Anderson Ind	5
F-R Machine Works Inc Electronic & X-Ray Div 26-12 Borough Pl Woodside 77 NY	13	Johnson Electronics Inc P O Box 1675 Hwy 17-92 Casselberry Fla	2-3-4-7-8-11-15-16-18	Morey Corp 2014 N Major Ave Chicago 39 Ill	1-2-3-4-7-8- 9-11-15-16-18
Fuzie-Miller Labs Inc 301 Central Ave Clark NJ	1-3-4-7-8-11-18- 21-22-23-25-26	J-V-M Eng Co 4633 S Lawndale Ave Lyons Ill	1-3-4-7-12-18	Moseley Co F L 409 N Fair Oaks Ave Pasadena Calif	3-7-21
Gates Radio Co 123 Hampshire St Quincy Ill	1-2-6-7-9-11-17-21-26	Kahn & Co 541 Windsor St Hartford 1 Conn	13	Muirhead Instruments Inc 677 S Ave New York 22 NY	23
General Bronze Corp 711 Stewart Ave Garden City NY	13	Kearfott Co Inc 1878 Main Ave Clifton NJ	12	Nagoc Associates Inc Littleton Mass	2-3-4
General Coll Products Corp 147-12 Liberty Ave Jamaica 35 NY	1-3-4-7-11-21-25-26	Kearfott Co Inc 14844 Oxnard St Van Nuys Calif	1	Narda Microwave Corp 118-150 Herricks Rd Yonkers NY	5-7-11-13-22
General Devices Inc P O Box 253 Princeton NJ	20	Kenyon Transformer Co 840 Barry St New York 59 NY	2-3-4-7-11	National Aircraft Corp Electronics Div 8411 Tulare Ave Burbank Calif	2-4
		Kings Electronics Co Inc 40 Marbledale Rd Tuckahoe NY	1-3-7-11	National Capacitor Co 18 Webster St Brookline 66 Mass	3-4-7-9-10-11-15-16
		Knight Co James Cburch & Wells Sts Sandwich Ill	5	National Coll Co P O Box 1297 Sberidan Wyo	2-3-4-7-8-11-18-22
		Krohn-Hite Corp 580 Massachusetts Ave Cambridge 38 Mass	2-3-4-23		

Newton Co
55 Elm St Manchester Conn 4

New York Transformer Co
3 Ave Alpha NJ 2-3-4-6-7-11

N R K Mfg & Eng'g Co
4601 W Addison St Chicago 41 Ill 13

NYT Electronics Inc
2979 N Ontario St 1-2-3-4-6-7-8-11-13-18-20-22

Hurbank Calif 13-18-20-22

Orlino Filter Corp
1500 Alhambra Ave 1-2-3-4-5-6-7-8-11-14-15-16-20-22-24-26-27

Packard Bell Electronics Corp
12333 W Olympic Blvd Los Angeles 64 Calif 7-10-11-15

Palmer Inc M V
4002 Fruit Valley Rd Vancouver Wash 3-7-10-11

Panatron Developments Div
Delta Broadcasting Sys 941 Shedborne Ave Dayton 8 Ohio 2

Pearless Electrical Products
1515 S Manchester Ave Anaheim Calif 2-3-4-5-6-7-11

Penn-East Eng'g Corp
Box 240 Kutztown Pa 2-3-4-7-11

Philamont Labs Inc
90 Hopper St Westbury LI NY 2

Pittsburgh Coll Co
37 McMichael Rd Carnegie Pa 9-10-16

Polard Electronics Corp
4-20 St Long Island City 1 NY 3-7-8-10-11-13-18-22

Polyphase Instrument Co
E 4 St Bridgeport Pa 3-4-7-8-11-18-20

Polytechnic Research & Development Co
202 Tillary St Brooklyn 1 NY 13

Potter Co
1650 Sheridan Rd N Chicago Ill 2-3-4-7-9-10-11-15-16-18-19

Precision Crystal Lab
2223 Warwick Ave Santa Monica Calif 5

Premier Instrument Corp
52 W Houston St New York 12 NY 18

Pulse Eng'g Inc
2657 Spring St Redwood City Calif 3-7-11-20

Pulse Techniques Inc
1411 Palisade Ave W Englewood NJ 2-3-6-7-11-23

Pyramid Electric Co
1445 Hudson Blvd N Bergen NJ 10

Q-Line Mfg Corp
1552 61 St Brooklyn 19 NY 1-21-22

Radar Design Corp
2360 James St Syracuse 12 NY 3-7-11-13-18-22

Radex Corp
2076 Elston Ave Chicago 14 Ill 12

Radio Condenser Co
1057 N Copewood St Camden 8 NJ 3-7-11

Radio Corp of America
Commercial Electronic Products Front & Cooper Sts Camden NJ 3-12-27

Radio Eng'g Products Ltd
1080 University St Montreal 8 Que Canada 2-3-4-6-7-11-20

Radio Frequency Labs Inc
Boonton NJ 3-4-7-11

Radio Music Corp
84 S Water St Port Chester NY 2-3-4-6-7-10-11-14

Radionics Inc
P O Box 186 Cockeysville Md 10-15

Railway Communications Inc
9351 E 59 St Raytown 83 Mo 3-6-7-10-11-27

Rayco Electronic Mfg Inc
11116 Cumpston St N Hollywood Calif 2-3-4-7-9-10-11-15-16-20

Raytheon Mfg Co Commercial Equip Div
100 River St Waltham 54 Mass 12

Raytheon Mfg Co
100 River St Waltham 54 Mass 12

Reeves-Hoffman Div
Cherry & North Sts Carlisle Pa 5

Regency Div Idea Inc
7900 Pendleton Pike Indianapolis 26 Ind 7

Richardson Labs Kenneth
254 Vincent Ave Lynbrook NY 11

Risco
265 Minna St San Francisco 3 Calif 2-3-4-6-7-9-10-11-15-16-20-26

Riverbank Labs Eng'g Dept
P O Box 66 Geneva Ill 3-12

Rixon Electronics Inc
2414 Recede Dr Silver Spring Md 1-11

M K Mfg Co
P O Box 112 Marion Ill 2-3-4-7-11

Rollan Electric Co
8233 S Princeton Ave Chicago 20 Ill 11

Ross Mfg Co
2534 Peterson Ave Chicago 45 Ill 18

RS Electronics Corp
P O Box 868 Sta A Palo Alto Calif 2-3-4-8-18-26

Rue Products
1628 Venice Blvd Venice Calif 7-9-11-16-18

Sage Labs Inc
159 Linden St Wellesley 81 Mass 3-4-5-7-8-11-13-18

St Eloi Corp
P O Box 507 Newtown Br Cincinnati 44 Ohio 8-9-10

Sanders Associates
95 Canal St Nashua NH 13

San Fernando Electric Mfg Co
1509 J St San Fernando Calif 3-4-7-10-11-15-18

Sangamo Electric Co
1207 N 11th St Springfield Ill 3-4-7-9-10-11-15-16-18-26

Saratoga Industries
Congress & Ballston Aves Saratoga Springs NY 2-3-4-6-7-8-9-10-11-14-15

Schuyler Mfg Corp
84 Porote Ave N Arlington NJ 19

Scientific Radio Products Inc
215 S 11 St Omaha Nebr 6

Scott Inc II H
385 Putnam Ave Cambridge 39 Mass 14-15

Servomechanisms Inc
12500 Aviation Blvd Hawthorne Calif 2-3-4-11

Sickles Div FW/GIC
165 Front St Chicopee Mass 3-8-11

Sierra Electronic Corp
3885 Bohannon Dr Menlo Park Calif 11-22

Sigmadyne of Conn
P O Box 869 Port Chester NY 3-4-6-7-11-20

Southwestern Industrial Electronics Co
2831 Post Oak Rd Houston 19 Texas 2-3-4-7-9-10-13

Spectrum Instruments Inc
44-05 80 Ave Long Island City 3 NY 2-3-4-7-11-20-23-25

Spencer-Kennedy Labs Inc
1320 Soldiers Field Rd Boston 35 Mass 1-3-4-7-10-11-18-21-23

Sperry Gyroscop Co
Microwave Electronics Div Great Neck NY 1-13

Spivey Inc James S
4908 Hampden Lane Washington 14 D C 16-18

Sprague Electric Co
Marshall St North Adams Mass 7-9-10-11-15-16-18-19

Standard Electronics Div Radio Eng'g Labs
30 & Borden Sts Long Island City NY 1-3-7-11-13-21-22-24-25

Statistical Instr Co
330 Haven Ave New York 38 NY 3-9-15-26

Suprex Electronics Corp
58 Marbledale Rd Tuckahoe NY 1-7-9-10-11-16-18-21

Sylvania Electric Products
60 Boston St Salem Mass 2-3-7-11

Ta-Mar Inc
11571 W Jefferson Blvd Culver City Calif 1-3-4-13-22

Technical Appliance Corp
1 Taco St Sherbourne NY 1-3-4-7-11-13-21-22

Technical Material Corp
700 Fenimore Rd Mamaroneck NY 1-2-3-4-7-11-17-18

Technical Oil Tool Corp
1057 N La Brea Los Angeles 38 Calif 13-22

Technical Products Co Instrument Div
6670 Lexington Ave Los Angeles 38 Calif 8

Techniques Inc
62 Jackson Ave Hackensack NJ 13

Teledrome Mfg Corp
28 Ranick Dr Amityville LI NY 2-3-4-5-7-8-11-18-20-24-25

Tele-Coil Co
2733 Saunders St Camden 8 NJ 8-18

Teletro Industries Corp
35-18 37 St Long Island City 1 NY 3-4-6-7-13-23-25-27

Telegraph Condenser Co
N Acton London W 8 England 2-7-9-11-15-16

Telematic Industries Inc
16 Howard Ave Brooklyn 7 NY 1-9-10-21

Telerad Mfg Corp
Route 69 Flemington NJ 1-3-13

Telerad Mfg Corp
1440 Broadway New York 18 NY 8-13

Telescope Corp
1415 Golf Rd Des Plaines Ill 2-3-4-7-8-9-10-11-15-16-18

Telkor Inc
Box 186 Elyria Ohio 9-15-21

Telonic Industries Inc
73 N 2 Ave Beech Grove Ind 7-11-18-22

Tel-Rad Electronics Corp
127-20 Rockaway Blvd S Ozone Park 29 LI NY 1-3-7-8-9-10-11-23-25-26

Texas Instruments Inc
Industrial Instrumentation Div 3609 Buffalo Speedway Houston 6 Texas 15

Thale Eng'g Corp
2104 E Villa St Pasadena Calif 7-9-16

Thermador Electronics Div Norria-Thermador Corp 2000 S Camfield Ave Los Angeles 22 Calif 2-3-4-7-11

Thordarson Meissner Mfg Div Maguire Industries Inc 7th & Belmont Mt Carmel Ill 1-2-3-4-7-8-9-10-11-18-21-26

Topper Mfg Co Inc
147-12 Liberty Ave Jamaica 35 NY 7-11

Torolot Inc
5512 E 110 St Kansas City 44 Mo 2-3-4-7-9-10-11-20

Torwico Electronics Inc
1090 Morris Ave Union NJ 2-3-4-6-7-11-20

Tranco Products Inc
12210 Nebraska Ave Los Angeles 25 Calif 1

Transformer Eng'g
285 N Halatend Pasadena Calif 2-3-4-7-11

Transformer Technicians Inc
2608 N Cicero Ave Chicago 39 Ill 2-3-4-6-7-10-11

Transformers Inc
200 Stage Rd Vestal NY 2-3-4-7-11

Tranconic Inc
808 16 St Bakersfield Calif 2-3-4-6-7-10-11-13-20-22

Triad Transformer Corp
4055 Redwood Ave Venice Calif 2-3-4-6-7-11

T T Electronics Inc
P O Box 180 Culver City Calif 2-3-4-6-7-9-10-11-15-20-23

TV Development Corp
187-61 Hollis Ave Jamaica 23 NY 21

United Electrodynamics
1200 S Marengo Ave Pasadena Calif 11-20

U S Electronics Corp
278 Warren St Lyndhurst NJ 1-8-9-10-11-16-18

United Transformer Corp Pacific Div
4008 W Jefferson Blvd Los Angeles 16 Calif 2-3-4-6-7-9-10-11

United Transformer Corp
150 Varick St New York 13 NY 2-3-4-6-7-9-10-11-14-15-16-17-18-19-20-23-24-25

Univox Corp
102 Warren St New York 7 NY 2

Uniwave Inc
109 Marine St Farmingdale NY 8-13

Vanguard Electronics Co
3384 Motor Ave Los Angeles 54 Calif 1-3-4-7-8-11-18-26

Varo Mfg Co
2201 Walnut St Garland Texas 11-15-16-18-20-23-23

Victor RF & Microwave Co
36 W Water St Wakefield Mass 1-13

Vidair Electronics Mfg Corp
41 Church St Baldwin NJ 1-2-4-6-7-8-9-10-11-15-16-18-21-26

Virginia Electronics Co
River Rd & B&O RM Washington 16 DC 2-3-8

Voron & Co George
835 N 19 St Philadelphia 30 Pa 2-9-10-15-26

Waveguide Inc
14837 Oxnard St Van Nuys Calif 1-13

Waveline Inc
P O Box 718 Caldwell NJ 13

Westbury Electronics Inc
300 Shames Dr Westbury NY 12-18-21-22

West Coast Electronics Co
9251 W 8 St Beverly Hills Calif 4

Western Coil Products Co
969 Commercial St Palo Alto Calif 8-18-28

Western Electro Acoustic Lab Inc
11789 San Vicente Blvd Los Angeles 49 Calif 2-3-6-11

Westinghouse Electric Corp
P O Box 868 Pittsburgh 30 Pa 1-2-3-4-5-6-7-8-9-10-11-13-18-20-27

Westonix Corp Texas Crystal Div
8538 W Grand Ave River Grove Ill 5

Weymouth Instrument Co
1440 Commercial St Weymouth 89 Mass 13-14

White Instrument Labs
Box 9006 Austin 17 Texas 2-3-4-7-11-20

Whitewater Electronics Inc
136 Main St Whitewater Wis 1-3-4-8-9-10-15-18-20-21-23-25-26

Wright Electronics Inc
2537 Grand Ave Kansas City 6 Mo 5

Wyeth Eng'g Inc
9911 Walden Pkwy Chicago 43 Ill 3-4-9-10-16-18-19

Young Spring & Wire Co Ganset Div
801 S Main St Burbank Calif 1

27—GAGES

Gages, ionization 1

Gages, pirani 2

Gages, pressure 3

Gages, strain 4

Gages, temperature 5

Gages, tension 6

Gages, thickness 7

Gages, vacuum 8

Gages, wire 9

Airmatic Valve Inc
7314 Associate Ave Cleveland 9 Ohio 3

Allegany Instrument Co
1091 Willis Mountain Cumberland Md 4

Aloe Scientific
5665 Kingsbury Blvd St Louis 12 Mo 3-5-8

American Electronics Inc
655 W Washington Blvd Los Angeles 15 Calif 7

American Instrument Co
4050 Georgia Ave Silver Springs Md 3-4-7

Amthor Testing Instrument Co 45-53 Van Sinderen Ave Brooklyn 7 NY 7-8	General Electric Co X-Ray Dept 4855 Electric Ave Milwaukee 1 Wisc 7	Precision Thermometer & Instrument Co 1434 Brandywine St Philadelphia 30 Pa 6-9
Arlin Products Inc 13541 Auburn Ave Detroit 23 Mich 4-6-7	General Electric Co Ltd of England c/o Imtra Corp 58 Charles St Cambridge 41 Mass 6	Process & Instruments 15 Stone Ave Brooklyn 33 NY 8
Arnoux Corp 11924 W Washington Blvd Los Angeles 66 Calif 5	General Vacuum Corp 400 Border St E Boston 28 Mass 8	Pyrometer Instrument Co 82 Portland Ave Bergenfield NJ 5
Assembly Products Inc 75 Wilson Mills Rd Chesterland Ohio 5	Gilmore Industries Inc 5713 Euclid Ave Cleveland 3 Ohio 3-4	Quality Control Corp 401 Broadway New York 13 NY 3-4-5-7-9
Atlantic Research Corp 901 N Columbus St Alexandria Va 3	Good Electronics Corp 17-19 Brooks St Newton 58 Mass 4	Radio Corp of America Commercial Electronic Products Front & Cooper Sts Camden NJ 7
Automatic Timing & Controls Inc King of Prussia Pa 3-6-7-9	Gray Mfg Co 16 Arbor St Hartford 1 Conn 3	Rea Co J B 1723 Cloverfield Blvd Santa Monica Calif 4
Automation Instruments Inc Industrial Pk Boulder Colo 7	Green Rectifier Co 1-10 30 St Fairlawn NJ 1-2-8	Research Industrial Lab of Electronics Roslyn Pa 1-7-8
Auto Test Inc 600 S Michigan Ave Chicago 6 Ill 3-8	Gulton Industries Inc 212 Durham Ave Metuchen NJ 3-4-7	Resitron Labs Inc 2908 Nebraska Ave Santa Monica Calif 1-2-8
Baldwin-Lima-Hamilton Corp Electronics & Instrumentation Div 42 Fourth Ave Waltham 91 Mass 3-4-5-6-9	Hagan Chemicals & Controls Inc 343 4 Ave Pittsburgh 30 Pa 3-5-8	Rosemont Eng'g Co 9424 Lyndale Ave S Minneapolis 20 Minn 7
Barton Electronics Inc 1000 Farmington Ave W Hartford 7 Conn 7	Hamilton Watch Co Allied Products Div Columbia Ave Lancaster Pa 3-4	Royco Instruments 720 Arthur St Albany Calif 8
Bendix Aviation Corp Cincinnati Div 3130 Wason Rd Cincinnati 8 Ohio 1	Hamlin Inc 1316 Sherman Ave Evanston Ill 8	Scherr Co George 200 Lafayette St New York 12 NY 3-6-7-9
Bergen Labs 247 Crooks Ave Clifton NJ 6	Hastings-Raydiat Inc Newcomb Ave Hampton Va 3-8	Scientific Eng'g Lab 2436 Sacramento St Berkeley Calif 8
B & F Instruments Inc 4732 N Broad St Philadelphia 41 Pa 6	Hathaway Instrument Div Hamilton Watch Co 5800 E Jewell Ave Denver 22 Colo 4	Scientific Glass Apparatus Co 100 Lakewood Terrace Bloomfield NJ 2-4
Bristol Co P O Box 1790 El Waterbury Conn 3-6-8	Hays Corp 742 E 8th St Michigan City Ind 3-5	Sealor Corp Warick Industrial Park Providence 5 RI 7
Brown & Sharpe Mfg Co 235 Prunemad St Providence 1 RI 7-9	High Vacuum Equipment Corp 2 Churchill Rd Hingham Mass 1-8	Seneca Falls Machine Co 314 Fall St Seneca Falls NY 7
Brush Instruments 3405 Perkins Ave Cleveland 14 Ohio 3-4-5	Hill & Co E Vernon P O Box 189 Lake Geneva Wisc 3-5	Sensory Inc 10 New St Morristown NJ 7
Canadian Aviation Electronics Ltd 6214 Laute de Liesse Rd St Laurent Quebec Canada 4	Hull-Standard Corp Daviesville Rd at Pa Twpk Hatboro Pa 8	Servonic Instruments Inc 640 Terminal Way Costa Mesa Calif 3
Canadian Curtiss-Wright Ltd 1940 Sherbrooke St W Montreal Que Canada 7	Illinois Testing Labs Inc 420 N LaSalle St Chicago 10 Ill 5	Servo-Recording Instruments Inc 1815 W Van Buren St Phoenix Ariz 7
Cardinal Instrumentation Corp 4201 Redwood Ave Los Angeles 66 Calif 5	Industrial Control Co 805 Albin Ave Lindenhurst LI NY 4	Sierra Electronic Corp 3885 Bohannon Dr Menlo Park Calif 1-4
Central Electronic Mfgs Inc Sub Nuclear Corp of America 2 Richwood Pl Danville NJ 1-8	Industrial Nucleonics Corp 1205 Chesapeake Ave Columbus 12 Ohio 7	Size Control Co Div American Gage & Machine Co 2500 W Washington Blvd Chicago 12 Ill 7-8
Central Scientific Co of Calif 1040 Martin Ave Santa Clara Calif 1-2-8	I Q Industries 1714 Westwood Blvd Los Angeles 24 Calif 3-5	Sperry Products Inc Shelter Rock Rd Danbury Conn Standard Electronics Research Corp 2 E End Ave New York 21 NY 7-8
Central Scientific Co of Canada Ltd 146 Kendal Ave Toronto 4 Ont Canada 8	Kahn & Co 541 Windsor St Hartford 1 Conn 5-7	Standard Gage Co Poughkeepsie NY 7
Cleveland Instrument Co 735 Carnegie Ave Cleveland 15 Ohio 7	King Electric Equipment Co 9123 Inman Ave Cleveland 5 Ohio 8	Statham Labs Inc 12401 W Olympic Blvd Los Angeles 64 Calif 3-4
Columbia Research Labs MacDade Blvd & Bullens La Woodlyn Pa 4	Kinney Mfg Div Vacuum Equip Div NY Air Brake Co 3529 Washington St Boston 30 Mass 1-2-8	Stokes Corp F J 5500 Tabor Rd Philadelphia 28 Pa 8
Consolidated Controls Corp 4 Durant Ave Bethel Conn 3	Kistler Instrument Corp 15 Webster St N Tonawanda NY 3-6	Taber Instrument Corp 111 Goundry St N Tonawanda NY 3-5
Consolidated Electrodynamic Corp 300 N Sierra Madre Villa Pasadena Calif 1-2-3-4-8	Kucour Co 4800 S St Louis Ave Chicago 32 Ill 7	Tatnall Measuring Systems Co P O Box 245 Phoenixville Pa 4
Consolidated Electrodynamics Corp Rochester Div 1775 Mt Read Blvd Rochester 1 NY 1-2-8	Kollsman Instrument Corp Standard Csl Product Sub 80-08 45 Ave Elmhurst 73 NY 3	Taylor Instruments Companies 95 Ames St Rochester 1 NY 3-3-6-8
Continental Electric Co Taylor Tube Inc 6 N Michigan Ave Chicago 2 Ill 8	Kontex Glass Co Vineland NJ 8	Temperature Eng'g Corp U S Hwy 130 Riverton NJ 3-5-8
Cosser Canada Ltd 301 Windsor St Halifax Nova Scotia Canada 4	Kuvs Industries Inc Tacony & Lewis Sts Philadelphia 24 Pa 7	Tracerlab Inc 1601 Trapelo Rd Waltham 54 Mass 1-7
Crescent Eng'g & Research Co 5440 N Peck Rd El Monte Calif 3-4-7	Mandrel Industrial Instruments Div Mandrel Industries Inc 5134 Glenmont Dr Houston Texas 3	Trimount Instrument Co 3119 W Lake St Chicago 12 Ill 3-8
Curtiss-Wright Corp Electronics Div 631 Central Ave Carlstadt NJ 1-7	Manning Marwell & Moore Inc 260 E Main St Stratford Conn 3-4-5-8	Tullamore Electronics Lab 6085 S Ashland Ave Chicago 36 Ill 1-7
Custom Scientific Instruments Inc 541 Devon St Woodside 77 NY 7	Marshalltown Mfg Co 810 E Nevada St Marshalltown Iowa 3-5-8	Unit Process Assemblies Inc 61 E 4 St New York 3 NY 7
Datron Electronics 1836 Rosecrans Ave Manhattan Beach Calif 3	Millers Falls Co 87 Wells St Greenfield Mass 7	U S Gauge Div American Machine & Metals Sellersville Pa 3-5-8
Daytronic Corp 216 S Main St Dayton 2 Ohio 4-6-7	Mineo Products Inc 740 Washington Ave Minneapolis 1 Minn 5	Vacuum-Electronic Eng'g Co 86 Denton Ave New Hyde Park LI NY 1-8
Decker Corp 45 Monument Rd Bala Cynwyd Penna 3-8	Minitrac Corp 5 Oliver St Newark 2 NJ 8	Vacuum Specialties Co 34 Linden St Somerville Mass 8
Detroit Controls Corp Norwood Controls Unit 934 Washington St Norwood Mass 4	Minn-Honeywell Regulator Co Aeronautical Div 2500 Ridgway Ave Minneapolis 13 Minn 3-5	Vacuum Tube Products Co 2020 Short St Oceanside Calif 2-8
Dice Co J W 16 Highwood Ave Englewood NJ 7	Minn-Honeywell Regulator Co Instruments Div Wayne & Windrim Aves Philadelphia 44 Pa 3-8	Van Keuren Co 178 Waltham St Watertown 72 Mass 7-9
Dynex Inc 777 Dynes Dr Pewaukee Wisc 3	Moeller Instrument Co 132-02 89 Ave Richmond Hill 18 NY 5-8	Vapor Recovery Systems Co 2820 N Alameda St Compton Calif 5
Edison Industries Thomas A Instrument Div McGraw-Edison Co 5 Lakeside Ave W Orange NJ 3-5	Norham Electronics Inc 2420 N Lake Ave Altadena Calif 3	Veeco Vacuum Corp 86 Denton Ave New Hyde Park NY 1-2-8
Fitel-McCullough Inc 79R San Mateo Ave San Bruno Calif 8	North American Instruments Inc 2420 N Lake St Altadena Calif 3	Victory Eng'g Co 121 Springfield Rd Union NJ 2-8
Electric Eye Equipment Co 1948 E Fairchild St Danville Ill 7	Norwood Controls Unit Detroit Controls Div American Standard 934 Washington St Norwood Mass 3-4-3	Wayne-Kerr Inst P O Box 901 Phila 5 Pa 3-5-8
Ellison Draft Gage Co 548 W Monroe St Chicago 6 Ill 3-8	NRC Equipment Corp 160 Charleston St Newton Highlands 61 Mass 1-2-8	Wekaler Instruments Corp 195 E Merrick Rd Freeport LI NY 3-5-8
Endevco Corp 161 E California St Pasadena Calif 3	NRD Instrument Co 3842 Manchester Rd St Louis 14 Mo 7	Welch Scientific Co W M 1515 Sedgwick St Chicago 10 Ill 1-2-8
Ercoma Corp 551 Fifth Ave New York 17 NY 7-9	Nuclear Corp of America 400 Park Ave New York 22 NY 1-7	West Coast Research Corp 2371 1/2 Westwood Blvd Los Angeles 64 Calif 3-4-5
Federal Products Corp 1144 Eddy St Providence RI 7-9	Nuclear Systems Div Hudd Co 2450 Hunting Park Ave Philadelphia 32 Pa 7	West Instrument Corp 4363 W Montrose Ave Chicago 41 Ill 5
Fischer & Porter Co 47R Warminster Rd Hathoro Pa 3-5-8	Omega Instrument Co 103 E Altadena Dr Altadena Calif 3-6-7-8	Western Electrical Instrument Corp 614 Frelinghuysen Ave Newark 12 NJ 3-5-8
Fleetwood Labs Inc 300 Victory Blvd New Rochelle NY 7	Opto Eng'g Co 3524 W Washington Blvd Los Angeles 18 Calif 4-7	Wianco Eng'g Co 255 Halstead St Pasadena Calif 8
Foxboro Co Neponset Ave Foxboro Mass 3-5-8	Pacific Transducer Corp 11834 W Pico Blvd Los Angeles 64 Calif 3-4	
Fredericks Co Geo E Bethayres Pa 1-2-3-8	Philips Electronics Inc 750 S Fulton Ave Mt Vernon NY 7	
Gardner Lab Inc P O Box 5728 Bethesda 14 Md 7	Photocon Research Products 421 N Altadena Dr Pasadena Calif 3-5-7	
General Controls Co 801 Allen Ave Glendale 1 Calif 3		
General Electric Co Apparatus Sls Div 1 River Rd Schenectady 5 NY 1-4-7-8		

28—HARDWARE

Balls, screw	1
Bearings	2
Bolts	3
Brackets	4
Brackets, mounting	5

Bushings, hermetically sealed	6
Bushings, non-metallic	7
Cans	8
Casters	9
Clamps	10
Clamps, tube	11
Clips, alligator	12
Clips, crystal diode	13
Clips, faststock	14
Clips, grid	15
Clips, spring	16
Clips test	17
Contact points	18
Cords & tape, lacing	19
Couplings	20
Couplings, shaft, flexible	21
Couplings, shaft, rigid	22
Diaphragms	23
Diecastings	24
Dowels	25
Extensions, shaft	26
Eyelets	27
Fasteners	28
Felt parts	29
Gaskets	30
Gears, precision	31
Grommets	32
Handles	33
Hardware, electronic	34
Hinges	35
Latches, magnetic	36
Locknuts	37
Locks	38
Markers, code	39
Mirrors	40
Mounts, shockproof	41
Mounts, vibration	42
Nails	43
Nuts	44
Plugs	45
Reducers, shaft	46
Rivets	47
Screw machine products	48
Screws, self-tapping	49
Screws, set	50
Screws, standard	51
Shafts, flexible	52
Shafts, rigid	53
Slides, equipment	54
Spacers	55
Springs	56
Stampings	57
Strain reliefs	58
Washers, brass	59
Washers, ceramic	60
Washers, felt	61
Washers, fibre	62
Washers, lock	63
Washers, metal	64
Washers, mica	65
Washers, plastic	66
Washers, rubber	67
Wire mesh	68

Abalon Precision Mfg Corp	540 Casanova St	
	New York 29 NY	4-5-8-10-49-58-65
Accurate Electronics Corp	169 S Abbe Rd	20-21-22-34-46-
	S E Elyria Ohio	58-60-63-65-67
Accurate Spring Mfg Co	3811 W Lake St Chicago 24 Ill	67-58
AC Electronics Div GMC	1925 E Kenilworth Pl Milwaukee 1 Wisac	31
Ace Plastic Co	91-30 Van Wyck Expwy	
	Jamaica 35 NY	7-38-67
Ace Spring Mfg Co	78 W Houston St New York 12 NY	57
Acme Mfg & Gasket Co	738 N 41 St	29-30-56-58-60-
	Philadelphia 4 Pa	62-63-65-67-68
Acromark Co	309 Morrell St Elizabeth NJ	39
Acro Tool & Die Works	4564 Broadway Chicago 40 Ill	59-58
Adalet Mfg Co	14500 Lorain Ave Cleveland 11 Ohio	7
Adel Precision Products Div	General Metals Corp	
	1444 Washington Ave Huntington 4 W Va	16
Advanced Products	59 Broadway North Haven Conn	30
Advance Electronics Co	8510 North End Ave Oak Park 87 Mich	46

Aerolite Electronics Corp	2207 Summit Ave	4-10-12-15-16-17-20-21-22-
	Union City NJ	25-34-41-45-46-47-53-54-58
Aetna Felt Co	204 Centre St New York 13 NY	29-80-62
Airborne Accessories Corp	1414 Chestnut Ave Hillside 3 NJ	31
Aircraft Radio Corp	Boonton NJ	21-28
Airtron Inc	1180 W Elizabeth Ave	10-30-32-34-
	Linden NJ	37-44-64
Akron Metallic Gasket Co	150 N Union St	30-60-62-68-
	Akron Ohio	64-65-67-68
Akron Rubber Co	88 Warren St New York 7 NY	80
Alden Products Co	12358 N Main St	
	Brockton 64 Mass	5-10-11-16-52
Allen Mfg Co	133 Sheldon St	25-28-44-
	Hartford 2 Conn	46-51-52
Allied Fabricating Corp	1538 N Clybourn Ave	
	Chicago 19 Ill	4-10-58-62-65
Allmetal Screw Products Co	821 Stewart Ave	3-25-28-34-37-43-44-46-
	Garden City NY	48-49-50-51-52-64-65
Alpha Metals Inc	66 Water St Jersey City 4 NJ	80-45
Aluminum Co of America	1501 Alcoa Bldg	
	Pittsburgh 19 Pa	3-10-24-43-
		44-45-65
Alvo Nut & Bolt Co	1601 Grande Vista Ave	
	Los Angeles 23 Calif	3-44-50-51-52-65
American Brass Co	414 Weadow St	4-5-8-10-27-28-
	Waterbury 28 Conn	32-34-45-60-65
American Hinge Corp	208 Wallabout St Brooklyn 6 NY	49
American Hoist & Derrick Co	63 S Robert St St Paul 1 Minn	9
American Laubacher Corp	250 W 57th St New York 19 NY	31-51-57-58
American Lava Corp Subs Minn Mining & Mfg	Cherokee Blvd & Mfrs Rd	6-7-25-27-32-
	Chattanooga 5 Tenn	54-56-61
American Nut & Bolt Fastener Co	2029 Doerr St Pittsburgh 33 Pa	60-64-65
American Screw Co	1650 W Main St Willimantic Conn	3-50-52
American Sealants Co	103 Woodbine St Hartford 6 Conn	28-37-64
American Silver Co	3607 Prince St	
	Flushing 54 NY	18-23-54-60-65
Amplex Div Chrysler Corp	P O Box 2718 Detroit 31 Mich	2-22-31-56-65
Anchor Metal Co	865 Meeker Ave Brooklyn 22 NY	58-60-65
Anchor Plastics Co	36-36 36 St	
	Long Island City 5 NY	5-22-26-33-56
Anti-Corrosive Metal Products Co	Castleton-On-Hudson NY	1-3-28-43-44-45-
		48-49-50-51-52-54-55-65-67
Arch Gear Works	37 Holmes St N Quincy Mass	31
Arch Instrument Co	101 Holmes St N Quincy Mass	31
Armstrong Cork Co	W Liberty St Lancaster Pa	29-30
Arrowhead Products	2300 Curry St Long Beach 1 Calif	20-32-42
Arrow Tool Co Inc	36 Mill St Wethersfield Conn	31
Associated Eng Corp	55 Kent St Brookline 46 Mass	12-17
Associated Mfg Co	4755 N Rockwell St Chicago 25 Ill	49
Atlantic & Pacific Wire & Cable Co	112-01 Northern Blvd E Elmhurst 11 NY	69
Atlas F-E Corp	47 Prospect St Woburn Mass	11-13-16-34-58
Atlas Precision Products Co	3801 Cantor Ave Philadelphia 24 Pa	31
Atlas Screw & Specialty Co	450 Broome St	
	New York 13 NY	3-44-49-50-51-
		52-60-64-65
Auburn Mfg Co	Pease Ave & Stack St	7-23-29-30-32-56-58-
	Middletown Conn	60-62-63-65-66-67-68
Auburn Spark Plug Co	89 York St Auburn NY	49
Aurat Bros	33 Perry Ave Attleboro Mass	10-11-13-16-58
Autel Electronics	P O Box 225 Linden NJ	8
Automatic & Precision Mfg Co	252 Hawthorne Ave Yonkers NY	6-28-30
Autoscrew Co	216 W 18 St New York 11 NY	3-28-44-51-52
Aviation Development Inc	210 S Victory Blvd Burbank Calif	25
Barb & Co Simon	635 Greenwich St New York 14 NY	40
Baker & Co	113 Astor St Newark 3 NJ	18-48
Baldwin Products Corp	432 E Valley Blvd	
	San Gabriel Calif	5-10-11-34
Bardeen Corp	E Franklin St Danbury Conn	2

Harnes Co Wallace Div Associated Spring Corp	Bristol Conn	57
Barry Controls Inc Western Div	2821 N Naomi St Burbank Calif	41-42-59
Bead Chain Mfg Co	110 Mountain Grove St	
	Bridgeport 3 Conn	45-56
Beaver Gear Works	1025 Parmele St Rockford Ill	31
Beckman/Helipot Corp	Newport Beach Calif	10-16-31-34
Belmet Products Co	503 Morgan Ave Brooklyn 22 NY	8-34-58
Belmont Smelting & Refining Works	350 Belmont Ave Brooklyn 7 NY	24
Bendix Aviation Corp/Friez Instrument Div	1400 Taylor Ave Baltimore 4 Md	23-33
Bendix Foundries Div Bendix Aviation Corp	Teterboro NJ	24
Bernard Franklin Co Inc	4155 E Hedley St Philadelphia 3 Pa	9-58
Berco Engineering Corp	2320 S Tibbs Ave	
	Indianapolis 41 Ind	4-5-49-58
Bethlehem Steel Co	Bethlehem Pa	3
Bird & Co Richard H	1 Spruce St Waltham 54 Mass	7
Birnbach Radio Co	85 Washington St Mt Vernon NY	5-7-10-11-12-14-16-
	145 Hudson St	17-19-20-22-26-34-44-
	New York 13 NY	46-50-53-54-56-59-64
Birtcher Corp Industrial Div	4571 Valley Blvd Los Angeles 32 Calif	11-13
Blaco Mfg Co	6541 Euclid Ave Cleveland 8 Ohio	4-10-58
Boots Aircraft Nut Corp	Newtown Turnpike Norwalk Conn	29-44
Bowmar Instrument Corp	4000 Bluffton Rd Ft Wayne Ind	31
Brady Co W H	727 W Glendale Ave Milwaukee 9 Wisac	30-39
Brainin Co C B	320 Washington St Mt Vernon NY	18
Bram Metallurgical-Chemical Div	820 65 Ave Philadelphia 26 Pa	66
Brand & Co William	41 North St Willimantic Conn	39
Braun Tool & Instrument Co Inc H	140 Fifth Ave Hawthorne NJ	15-57-68
Bridgeport Brass Co	30 Grand St Bridgeport 2 Conn	24
Bristol Co	P O Box 1790 El	
	Waterbury Conn	23-25-28-46-49-51
Brooks & Perkins	1950 W Ford St Detroit Mich	8
Bronks Radio & TV Corp	84 Vesey St New York 7 NY	3
Brush Nail Expansion Bolt Co	Greenwich Conn	28
R-W Meters Inc Phillips Radio Div	721 N Webster St Kokomo Ind	58
Cambridge Thermionic Corp	445 Concord Ave	4-5-11-13-18-
	Cambridge 38 Mass	21-22-23-34
Camcar Screw & Mfg Co Div Textron Inc	600 18 Ave Rockford Ill	28-50-52
Camloc Fastener Corp	22 Spring Valley Rd Paramus NJ	28
Carborundum Co Globber Div	Hyde Park Blvd	
	Niagara Falls NY	6-7-59-61
Cardwell Co Allen D	97 Whiting St Plainville Conn	21
Carroll Pressed Metal Inc	133 Dewey St Worcester 10 Mass	68
Carter Parts Co	340 W Madison St Skokie Ill	45
C F M Co	24 School St Danielson Conn	25-25-45
Central Scientific Co of Canada Ltd	146 Kendal Ave Toronto 4 Ont Canada	10
Central Screw Co	3501 Shields Ave	
	Chicago 9 Ill	3-28-37-44-50-52
Channel Master Corp	Ellenville NY	4-48-49
Chase Brass & Copper Co	236 Grand St	
	Waterbury 20 Conn	8-28-32-43-44-48-60
Chassis-Trak Inc	525 S Webster Ave Indianapolis 19 Ind	55
Chatillon & Sons John	85 Cliff St New York 14 NY	57
Chicago Gasket Co	1271 W North Ave Chicago 22 Ill	7-21-30-67
Chicago Rivet & Machine Co	950 S 28 Ave Bellwood Ill	48
Chicago Screw Co Div Standard Screw Co	2701 Washington Blvd	
	Bellwood Ill	3-28-44-49-51-52
Churchill Lighting Corp	344 Franklin St	
	Melrose 76 Mass	5-34-42-58
Circon Components Corp	Santa Barbara Municipal Airport	
	Goleta Calif	3-27-28-34-44-48-49-60
Cleveland Metal Specialties Co	1783 E 21 St Cleveland 14 Ohio	55
Cleveland Wire Cloth & Mfg Co	3573 E 78 St Cleveland 8 Ohio	59
Clevite Harris Products Inc	6545 Carnegie Ave Cleveland 8 Ohio	7-41-42
Clowes Ceramic Corp	8711 Calhoun Ave Chattanooga 7 Tenn	7-61

Coils Electronics Co 2939 45th 2nd St Phila 33 Penna	58	Enlo Corp Fellowship Rd Route 73 Maple Shade NJ	2-6-7-20-21-22-23- 30-32-54-56-58-67	Glass-Solder Eng'g 4232 Temple City Blvd Rosemeade Calif	6
Column Machine Co 87 State St Lynn Mass	49	Engineering Co 23 Wright St Newark 5 NJ	49	Gleason-Avery Inc 45 Aursling Ave Auburn NY	49
Comar Products Box 776 Butler NJ	30-68	Erica Tool Die & Stamping Co 19 Ash St Brooklyn 22 NY	15-34-58-60-63-65-66-67	Globe Industries Inc 1784 Stanley Ave Dayton 4 Ohio	31
Conn Hard Rubber Co P O Box 1911 New Haven 9 Conn	7	Ercona Corp 651 Fifth Ave New York 17 NY	48	Goat Co Fred 814 Dean St Brooklyn 17 NY	15-16
Conn Telephone & Electric Corp 70 Britannia St Meriden Conn	18	Erie Resistor Corp 644 W 12 St Erie 6 Pa	58	Goe Eng'g Co 219 S Mednik Ave Los Angeles 22 Calif	22-33-34-49-56
Consolidated Molded Products Corp 809 Cherry St Scranton 2 Penna	7-31-33-67	Erwood Inc 1770 W Artesano Ave Chicago 13 Ill	33	Golden Co 1054 38 St Brooklyn 19 NY	4-5-10-11-58
Contacta Inc 1100 Silas Deane Hwy Wethersfield 9 Conn	18	Exact Eng'g & Mfg Inc P O Box 658 Oceanside Calif	47	Goodrich Aviation Products Div B F Goodrich Co 500 S Main St Akron 18 Ohio	28-48
Continental-Diamond Fibre Corp Newark Dela	63-66	Exact Industries Inc 8730 Santa Monica Blvd Los Angeles 44 Calif	10-11-16	Goodrich Sponge Products H F Div B F Goodrich Co Canal St Shelton Conn	68
Continental Screw Co 459 Mt Pleasant St New Bedford Mass	50-51-52	Eyelet Tool Co 236A Broadway Cambridge Mass	27-28-32-33	Gordon Enterprises 5362 N Cabuena Blvd N Hollywood Calif	4-5-31-40-49-57-58
Craig Systems Inc 80 Holten St Danvers Mass	65	Factory Enterprises Inc 3431 Butler St Pittsburgh 1 Pa	69	Graflex Inc 154 Clarissa St Rochester 8 NY	49
Crane Packing Co 8400 Oakton St Morton Grove Ill	67	Fafnir Bearings Co 37 Booth St New Britain Conn	2	Grant Gear Works 154 W 8 St Boston Mass	31
Creative Plastics Corp Rt 26-A Stony Brook NY	32	Fanstrel Metallurgical Corp 2200 Sheridan Rd N Chicago Ill	18	Grant Pulley & Hardware Corp High St W Nyack NY	56
Crescent Eng'g & Research Co 8440 N Peck Rd El Monte Calif	34	Fastex Div Ill Tool Works 195 Algonquin Rd Des Plaines Ill	28-31-32-34- 37-46-48-58-59	Graphite Metallizing Corp 1002 Nepperhan Ave Yonkers NY	2-7-18
Croname Inc 3701 Ravenswood Ave Chicago 18 Ill	58	Fear Co Industries Inc 427 Olive St Santa Barbara Calif	34	Grayhill Inc 561 Hillgrove Ave La Grange Ill	67
Crucible Steel Co of America P O Box 2618 Pittsburgh 30 Penna	37	Federal Machine Co 835 Garfield Ave Jersey City 5 NJ	3-4-5-20-22-44-54-56	Greene Corp G G 4-5-8-9-10-11-15-16-27-28- Warren Pa	33-34-35-45-57-58-60-63-65-66-67
Custom Gear Co 648 College St South Bend 28 Ind	31	Federal Screw Products Inc 3917 N Kedzie Ave Chicago 18 Ill	3-5-12-14-26- 27-28-32-34-37-44-48-49- 50-51-52-55-60-63-64-65-68	Greer Hydraulics Inc N Y Int'l Airport Jamaica 30 NY	23
Cutler Metal Products Co 1025 Line St Camden 1 NJ	58	Federal Shockmount Corp 1050 Washington Ave New York 56 NY	41-42	Greer Stop Nut Co 2608 W Flournoy St Chicago 12 Ill	44-49-51
Dakota Eng'g Inc 6641 Crenshaw Blvd Los Angeles 48 Calif	10	Federal Tool & Mfg Co 3600 Alabama Ave Minneapolis 16 Minn	58	Gries Reproducer Corp 8 2nd St New Rochelle NY	7-24-28-31-33-34-87-44- 45-48-51-56-67
Dale Products Inc P O Box 138 Columbus Nebr	24	Felt Products Mfg Co 7450 N McCormick Blvd Skokie Ill	23-27-28-29-30- 60-62-63-65-66-68	Grip Nut Co South Whitley Ind	28-32-37-44
Dalmore Corp 47 Prospect St Woburn Mass	49	Fin & Co T M 200 Central Ave Hawthorne NJ	41-42	Groov-Pia Corp 1125 Hendricks Causeway Ridgefield NJ	45
Devater Electronic Industries Corp 208 Orinoco Dr Brightwaters LI NY	32	Flexonics Corp 109 N Camar St Phila 7 Pa	67	Gudebrod Bros Silk Co 225 W 86 St New York 1 NY	19
Deringer Metallurgical Corp 8131 Monticello Ave Skokie Ill	18-48	Fluorocarbon Products Inc Div U S Gasket Co 602 N 10 St Camden 1 NJ	7-15-30-32-49-67	Halax Corp 17470 Shelbourne Way Los Gatos Calif	2
Deutsch Co 7000 Avalon Blvd Los Angeles 8 Calif	10-40	Foote Bros Gear & Machine Corp 4545 S Western Blvd Chicago 9 Ill	1-20-21-31-47	Hallett Mfg Co 5910 Bowercraft St Los Angeles Calif	7-10-32
Dial Products Co 9 Ave E Bayonne NJ	21	Forbes & Wagner Inc 348 Central Ave Silver Creek NY	58	Halogen Insulator & Seal Corp 10121 Franklin Ave Franklin Park Ill	30-67
Dietsen Co Eugene 2425 N Sheffield Ave Chicago Ill	10-16	Ford Instrument Co Div Speery Rand Corp 31-10 Thomson Ave Long Island City 1 NY	21	Hamilton Glass Co 2750 W Grand Ave Chicago 12 Ill	40
Dimco-Gray Co 207 E 6 St Dayton 2 Ohio	28-38	Forsberg Mfg Co 125 Seaview Ave Bridgeport 1 Conn	34	Hamilton Kent Mfg Co 427 Grant St Kent Ohio	42
Dittmore-Freilicht Corp 2517 E Norwich St Milwaukee 7 Wisc	58	Fourdee Inc 704 W Fairbanks Ave Winter Park Fla	21	Handy & Harman 42 Fulton St New York 24 NY	69
Division Lead Co 7742 W 61 Pl Summit Ill	65	Fox Co Thomas T 95 Summit St Newark NJ	49-58	Harper Co H M 8200 Lehigh Ave Morton Grove Ill	3-44-48-50-51-52-60-65
Dixon Corp Burnside St Bristol RI	67	Frankie Gear Works Inc 1920 W Columbia Ave Chicago 12 Ill	31	Harwood Electronics Co 466 W Superior St Chicago 10 Ill	4-5-8-10-58
Dollin Corp 636 S 21 St Irvington 11 NJ	24	Frankel Connector Co 27 Vestry St New York 13 NY	17	Hassall Inc John Cantiague Rd Westbury LI NY	28-43-45-48-56
Dry Screen Process Inc 1015 Madison Ave Pittsburgh 12 Pa	69	Freeway Washer & Stamping Co 4811 Grant Ave Cleveland 6 Ohio	58-60-63-65	Haydu Electronic Products 1426 W Front St Plainfield NJ	16-31-57-58
D & S Mfg Co 424 Burk Ave Ridley Park Pa	34	Frenchtown Porcelain Co Frenchtown NJ	6-7-61	Heldor Mfg Corp 238 Lewis St Paterson NJ	4-5-6-8-34-50
Du-Co Ceramics Co Box 278 Saxonburg Pa	7-32-61	Fries Instrument Div Bendix Aviation Corp 1400 Taylor Ave Baltimore 4 Md	33	Heli-Coil Corp Sheller Rock Lane Danbury Conn	28
Dudek & Co R C 4817 N Maple St Beverly Hills Calif	28-34-37	Garde Mfg Co 588 Eddy St Providence RI	6-16-34-56-58	Helipot Corp Newport Beach Calif	20-22-31
Durable Rubber Products Co 609 W Lake St Chicago 6 Ill	30	Garlock Packing Co 402 Main St Palmyra NY	30-32-63-67-68	Heminway & Bartlett Mfg Co 500 S Ave New York 36 NY	19
Duramic Products Inc 262 72 Mott St New York 12 NY	7-61	Gates Radio Co 123 Hampshire St Quincy Ill	4-5-26-29	Henry & Miller Industries Inc 675 Garfield Ave Jersey City 6 NJ	49-54-58
Dynamic Gear Co 29 Merrick Rd Amityville LI NY	81-84-86	Gear Specialties Inc 2635 W Medill Ave Chicago 47 Ill	81	Hermitec Pacific Corp 4232 Temple City Blvd Rosemead Calif	6
Dzus Fastener Co Box 185 Babylon NY	28-32-57	Gear Systems Inc Main St Concord Mass	31	Heyman Mfg Co 147 N Michigan Ave Kenilworth NJ	58-59
Eagle Electric Mfg Co 23-10 Bridge Plaza Long Island City 1 NY	46	Gee-Lar Mfg Co 418 S Wyman St Rockford Ill	4-5-20	Hi Grade Alloy Corp 236 S Talman Chicago 8 Ill	64
Eagle Electronics Corp P O Box 776 Meriden Conn	33	Gemex Corp 1200 Commerce Ave Union NJ	58	Hi-Shear Rivet Tool Co 2600 W 247th St Torrance Calif	3-25-28-37-48
Eastern Specialty Co 3617 N 8 St Phila 40 Pa	49-58	General Cable Corp 420 Lexington Ave New York 17 NY	6-10-11-30-34-65-69	Hobbs Mfg Co 26 Saliary St Worcester 5 Mass	45-64
Eclipse-Pioneer Div Bendix Aviation Corp Teterboro NJ	10-24	General Cement Mfg Co Div Textron Inc 400 Wyman St Rockford Ill	45-46-48-50-51-54-56-57-58- 59-60-62-63-64-65-67	Hobson Bros 4940 W Lawrence Ave Chicago 80 Ill	16-58
Elastic Stop Nut Corp of America 2330 Vauxhall Rd Union NJ	25-28-37-44-45	General Components Inc 225 E 14 St Bronx 51 NY	5-21-33-34-58-67	Hoffman Electronics Corp 3761 S Hill St Los Angeles 7 Calif	31
Elco Corp M St below Erie Ave Philadelphia 24 Pa	45	General Control Co 1200 Soldiers Field Bld Boston 34 Mass	18	Huck Mfg Co 2480 Bellevue Ave Detroit 7 Mich	3-28
Elco Tool & Screw Corp 1800 Broadway Rockford Ill	28-44-50-52	General Electric Co Jet Engine Dept Bldg 501 Cincinnati 15 Ohio	31	Hudson Tool & Die Co 15 Malvern St Newark 5 NJ	8-58
Electrical Specialty Co 158 11 St San Francisco 9 Calif	19-63-66-67	General Finishes & Supply Co Industrial Div Leach & Garner Bldg Attleboro Mass	8-10-16-18-32-48-49-57-58	Hunter Spring Co 1 Spring Ave Lansdale Pa	67
Electric Corp Co 21 Spruce St New York 38 NY	10	General Mills Inc Mechanical Div 1620 Central Ave Minneapolis 13 Minn	31	IE Mfg 325 N Hoyne Ave Chicago 12 Ill	3-4-5-10-11-30-34-45- 52-56-57-58-60-61-63- 64-65-66-67-68-69
Electric Steel Foundry Co 2141 N W 25 St Portland 10 Ore	20-46	General Plastics Corp 1585 Ave Paterson 4 NJ	39	Industrial Accessories Inc Line Rd Matawan NJ	30-32
Electronic Coil Engineers Inc 5830 Main St Hollydale Calif	8	Gibson Electric Co Box 553 Delmont Pa	18	Industrial Devco Inc 932 River Rd Edgewater NJ	17
Ellis & Son Geo D 10 Washington Ave Hastings-on-Hudson NY	58			Industrial Hardware Mfg Co 109 Prince St New York 12 NY	58
Elzee Metal Products Co 775 39 St Brooklyn 32 NY	4-5-10-41-42-49-58-65				
Emerson Plastics Corp Seabury Ave & Butler Pl Bronx 61 NY	7-23-25-30-32-46-63-66-67-68				

Industrial Retaining Ring Co 57 Cordier St Irvington 11 NJ	28	Lord Mfg Co 1635 W 12 St Erie 6 Pa	21-23-41-42	Newark Wire Cloth Co 351 Verona Ave Newark 4 NJ	69
Ind Test Equip Co 55 E 11th St New York 3 NY	53	Lorentzen Inc H K 391 W Broadway New York 12 NY	4-5-58	Newcomb Spring Corp 177 E Hawthorne Ave Valley Stream NY	14-15-16-28-34-42- 57-58-60-61-64-65-67
Insulating Fabricators Inc 150 Union Ave E Rutherford NJ	30-32-58-63-66-67-68	Lubron Rubber Co 51 Kelvin St Everett 49 Mass	62-68	Newcomb Spring of Conn 510 Queen St Southington Conn	4-10-16-57-58-65
Insulation Mfrs Corp 565 W Washington Blvd Chicago 33 Ill	25-63-66	Magnesium Products of Milwaukee Inc 748 W Virginia St Milwaukee 4 Wis	58	New Departure Div GMC 269 N Main St Bristol Conn	2
Insulation & Wires Inc 1514 Swinney Ave Ft Wayne Ind	68	Malc Tool & Mfg Co 4025 W Lake St Chicago 24 Ill	4-5-34	Newman Co M M 570 Cliff Ave Marblehead Mass	19
Institute Corp of America 186 Granite St Manchester NH	4-5-9-12-16-20-22-26-27- 44-46-52-58-63-64-66-68	Malkin-Illion Co 400 Coit St Irvington 11 NJ	58	Ney Co J M P O Box 990 Hartford 1 Conn	18
Isolantite Mfg Corp Warren Ave Stirling NJ	6-61	Mandex Mfg Co 2608 W 16 St Chicago Ill	34	N H Ball Bearings Inc Petersborough 1 NH	2
Jacksonville Metals Plastics Co 575 Dara St Jacksonville Fla	39	Markwik Mfg Co 31 Sexton Rd Plainview LI NY	39	Nichols Products Co 325 W Main St Moorestown NJ	63-67
Jan Hardware Mfg Co 75 N 11 St Brooklyn 11 NY	21	Marlin-Rockwell Corp 402 Chandler St Jamestown NY	2	Nielsen Hardware Corp 570 Wethersfield Ave Hartford 14 Conn	11-28-33-38
JFD Electronic Corp 6101 16 Ave Brooklyn 4 NY	5	Masterite Industries Inc 835 W Olive St Inglewood Calif	10-11-16-34	Nimand Hros 37-05 35 Ave Long Island City 1 NY	63
Jerlin Mfg Co Lufberry Ave Wallingford Conn	2-6-7-10-11-28-30-67	Mayfair Molded Products Corp 3700 N Rose St Schiller Park Ill	6-7-23-30-32-42-67-68	Norden-Ketay Corp Commerce Rd Stamford Conn	31
Judee Plastics Co 213 Shepherd Ave Brooklyn 3 NY	7-30-31-32-49-56-67	Meredith & Co Ltd C C 80 Thomas St Streetsville Ont Can	49-58	Norrish Plastics Corp 107 W 19th St New York 16 NY	1-2-3-6-7-8-20-21-22-25-31-44- 45-49-56-60-63-65-66-67-68
Johna-Maxville 22 E 40 St New York 16 NY	30	Metal Specialty Products Corp 27-01 Brooklyn Queens Expressway W Woodside 77 NY	16-17-20-21-22-26-33-84- 67-58-65	Northern Metal Products Corp 9599 W Grand Ave Franklin Park Ill	4-5-58
Johnson Bronze Co S Mill St New Castle Pa	2	Metal Textile Corp 647 E First Ave Roselle NJ	30-69	North Shore Nameplate Inc 214-27 Northern Blvd Bayside 61 NY	39
Johnson Co E F 206 3 Ave SW Waseca Minn	20-21-22-46-53-54	Methode Mfg Corp 7447 W Wilson Ave Chicago 31 Ill	58	Nylor Corp 133 Penn St El Segundo Calif	3-2R-17
Johnson & Hoffman Mfg Corp 31 E 2 St Mincola NY	5R	Metpro Inc R I 230 Toronto Ave Providence 5 RI	8-27-32-48	Nylor Corp 8046 Central Park Ave Skokie Ill	8-37-44-61-62
Jones Electronics Hiram 2313 W Olive St Burbank Calif	27-34-46-49	Mica Insulator Co 797 Broadway Schenectady 1 NY	7-30-32-66-67	Nylor Corp 611 Industrial Ave Paramus NJ	3-28-34-37-49-51-52
Jones & Laughlin Steel Corp 3 Gateway Center Pittsburgh 30 Pa	43	Micarta Fabricators Inc 5324 N Ravenswood Ave Chicago 40 Ill	63-67	Oak Mfg Co 1260 N Clybourn Ave Chicago 10 Ill	21
Kaynar Co Box 2001 Terminal Annex Los Angeles 54 Calif	37-44	Micromold Products Corp 1 School St Yonkers NY	67	Ohio Carbon Co 12505 Barbera Rd Cleveland 11 Ohio	2-7
Kew Mfg Co F D 700 Park St Beatrice Nebr	4-5-33-56-58	Micron Gear Mfg Co 73 Rushmore St Westbury LI NY	31	Omega Industries Inc 36-39 171 St Flushing NY	45
Kelley-Hayes Co 3600 Military Ave Detroit 32 Mich	8-31-58	Mid-West Conveyor Co Metal Products Div 7 & Sunshine Rd Kansas City 16 Kan	4-5-8-56-58	O & S Research Inc 1811 Bannard St Riverton NJ	40-49
Kent Lighting Corp 500 Johnson Ave Brooklyn 37 NY	6	Mid-West Spring Mfg Co Eina St Mentone Ind	57	Pacific Universal Products Corp 168 Vista Ave Pasadena 8 Calif	40
Kenwood Engg Co 265 Colfax Ave Kenilworth NJ	4	Millen Mfg Co James 150 Exchange St Malden 48 Mass	8-11-15-21-22-26-46	Palnut Co 26 Glen Rd Mountainside NJ	2R-37
Keystone Bolt & Nut Corp 125 Church St New York 7 NY	3-44-48-49-50-51-60-64-65	Milwaukee Stamping Co 800 S 72 St Milwaukee 14 Wis	4-5-10-49-56-58-60-65	Panduit Co 14461 Waverly Ave Midlothian Ill	19
Keystone Electronics Corp 49 Blecker Rt New York 12 NY	4-5-7-12-34-46-49-56-58	Minerals & Insulation Co Rochelle Park NJ	63-66-67	Parker-Kalon Div General American Transportation Co 1 Peckay Dr Clifton NJ	2R-50-51
Kirchberger & Co M 83-91 W Forest Ave Englewood NJ	61	Miniature Precision Bearings Inc Precision Park Keene NH	2	Parker Metal Goods Co 85 Prescott St Worcester 5 Mass	4-5-10-11-28-32-34-41- 42-43-44-51-58-64-65
Klincher Locknut Corp 2153 Hillside Ave Indianapolis 16 Ind	37	Minnesota Mining & Mfg Co 900 Bush Ave St Paul 6 Minn	61	Paul & Beekman 1801 W Courtland St Philadelphia 40 Pa	4-5-8-17-27- 34-35-58-60
Kling Metal Spinning & Stamping Co 245 Centre St New York 13 NY	58-60-65	Minnesota Rubber & Gasket Co 3630 Wooddale Ave St Louis Park Minneapolis 16 Minn	23-30-32	Peerless Electronics Inc 5338 Alhambra Ave Los Angeles 38 Calif	10-11
Klise Mfg Co 51 Cottage Grove St SW Grand Rapids 3 Mich	1	Minor Rubber Co Ackerman St Bloomfield NJ	30-32-41-42-67-68	Peerless Products Industries 812 N Pulaski Rd Chicago 51 Ill	62-63-66-67
Kolton Electric Mfg Co 123 N J Railroad Ave Newark 8 NJ	58	Modern Wire Co 39-30 Review Ave Long Island City 1 NY	69	Penn Eng'g & Mfg Corp P O Box 311 Doylestown Pa	28
Koppers Co Koppers Bldg Pittsburgh 19 Pa	21	Molding Corp of America 58 Weybosset St Providence 3 RI	6-7-32-67	Penn Fibre & Specialty Co 2020 E Westmoreland St Philadelphia 34 Pa	30-50-62-63-64- 65-66-67-68-69
Kost Products Co 2385 N Cicero Ave Chicago 39 Ill	8-13-28	Molly Corp 230 N 8 St Reading Pa	28	Penna Fluorocarbon Co Inc 1115 N 38 St Phila 4 Pa	7-67
Krengel Mfg Co 227 Fulton St New York 7 NY	39	Moody Machine Products Co 40 Dudley St Providence 5 RI	46	Perfection Mica Co 1322 N Elston Ave Chicago 22 Ill	66
Kupfrin Mfg Corp 395 State St Binghamton NY	21-53	Morris Co Howard J 266 Williams St New York NY	30-40-63	Perkins Machine & Gear Co Circuit Ave West Springfield Mass	31
Kuss Industries Inc Tacony & Lewis Sta Philadelphia 24 Pa	65-68	Morris Co J I 390 Elm St Southbridge Mass	28-34-44-48-49-51-60	Permanite Mfg Co 444 Lake Shore Dr Chicago 11 Ill	4-5-58-63-67
Labline Inc 3070 W Grand Ave Chicago 22 Ill	10	Motiograph Inc 4441 W Lake St Chicago 24 Ill	31-49	Phenol Mfg Co 5700 W Roosevelt Rd Chicago 50 Ill	50-51-52
Laboratory Equipment Corp Lakeview & Hilltop Rd St Joseph Mich	24-36	Mueller Electric Co 1583 E 31 St Cleveland 14 Ohio	12-17	Pic Design Corp 477 Atlantic Ave E Rockaway LI NY	1-2-7-10-20-21-22-25- 26-31-33-44-45-47-49- 51-53-54-56-57-64-65
La Moree C D 2435 Birkdale St Los Angeles 31 Calif	66-67	Mutual Electronics Industries Inc 50 Aleppo St Providence RI	5R	Pilgrim Sewer Corp 259 Dexter St Providence 1 RI	50-52
Lamson & Sessons Co 5000 Tiedeman Rd Cleveland 9 Ohio	3-10-28-37-44-49-50-51-52	My-T-Grip Mfg Co Inc 176 Broadway New York 38 NY	28	Pittsburgh Plate Glass Co P Gateway Center Pittsburgh 22 Pa	35-40
Lance Antenna Mfg Co 1730-1802 1st St San Fernando Calif	10-20	Narrow Fabric Co P O Box 742 Reading Pa	19	Plasteck Inc P O Box 551 Poteau Okla	67
Landis & Gyr 45 W 45 St New York 36 NY	2	National Company Inc 61 Sherman St Malden 48 Mass	15-20-22-23-44-55	Plastic Accessories Inc 91 Mercer St New York 12 NY	67
Leary Inc 110 Inonia Ave NW Grand Rapids 2 Mich	20-21	National Fabricated Products Div Hoffman Electronics Corp 2650 W Belden Ave Chicago 47 Ill	13-58	Pneumafil Corp 2316 Wilkinson Blvd Charlotte 8 NC	41-42
Lee Chemical Corp Walter 1383 Seabury Ave & Butler Pl Bronx 61 NY	7-23-30-32-45-46-49-66-67-68	National Gasket & Washer Mfg Co 124 E 25 St New York 16 NY	30-58-60-62-63- 64-66-66-67-68	Polymer Corp 2120 Fairmont Ave Reading Pa	2-7-30-32-67
Lee Spring Co 30 Main St Brooklyn 1 NY	57-58	National Lock Washer Co 40 Hermon St Newark 8 NJ	64	Ponn Machine Cutting Co Tilston St Everett 49 Mass	30
Lervo Electronics Inc 501 5 Varney St Burbank Calif	13-18-27-33-34-44-49-56	National Screw & Manufacturing Co 2440 E 75 St Cleveland 4 Ohio	3-28-37-44-45- 48-49-50-51-52	Porter Electric Tools Inc 320 W 83 St Chgo 20 Ill	4
Life Instrument Co P O Box 158 Braintree 85 Mass	8-34	National Tel-Tronics Corp 52 St Casimir Ave Yonkers NY	15-46-58	Positive Lock Washer Co Avenue A & Miller St Newark 6 NJ	64
Litton Industries Components Div 5878 Rodeo Rd Los Angeles 16 Calif	5-22-27-28-33-34-46-49	National Vulcanized Fibre Co P O Box 311 Wilmington 99 Del	63-67	Precise Instrument Parts Co 4520 San Fernando Rd Glendale 4 Calif	2R-49-54-60-63-65-67
Litton Industries of Calif 335 N Foothill Rd Beverly Hills Calif	8-34	Neosil Products Div Rubber Associates 745 5 Ave New York 22 NY	80	Precision Metal Products Co 41 Elm St Stoneham Mass	4-83-34-37-49
Litton Industries of Md Inc 4910 Calvert Rd College Park Md	31				

Premax Products Div Chisholm-Ryder Co College & Highland Aves Niagara Falls NY	5	Set Screw & Mfg Co Bartell Ill	28-50-51-52	Taurus Corp 8 Corvett St Lambertville NJ	49
Premco Inc 5470 Valley Blvd Los Angeles 32 Calif	28	Shakeproof Div Illinois Tool Works St Charles Rd Elgin Ill	28-87-44-50-64	Technical Oil Tool Corp 1057 N La Brea Los Angeles 38 Calif	31-49-54-56
Printoid Corp 93 Mercer St New York 12 NY	47	Sheffco Mfg Corp 323 Bergen Blvd Fairview NJ	58-60-63-65-67-68	Techniques Inc 52 Jackson Ave Hackensack NJ	23-57-58
Q-Line Mfg Corp 152 61 St Brooklyn 19 NY	4-5-58-65	Sightmaster Corp 50 Aleppo St Providence RI	58	Telect Industries Corp 35-18 37 St Long Island City 1 NY	36-42-47
Quaker City Gear Works H-thayres Pa	31	Silicone Insulation Inc Seabury Ave & Hutler Pl Bronx 61 NY	7-23-30-32-45-46-67	Telegraph Construction & Maintenance Co Ltd Mercury House Thebalds Rd London W C 1 England	23-57
Rada Products Co 2911 Carroll Ave Chicago 12 Ill	4-5-58	Sillecks-Miller Co 10 W Parker Ave Maplewood NJ	67	Telex 1683 Eustis St St Paul 1 Minn	31-46
Radio Corp of America Commercial Electronic Products Front & Cooper Sts Camden NJ	31-37	Simmons Fastener Corp N Broadway Albany 1 NY	28-33-35-37-48-55	Tevo Insulated Wire 108 E Prospect Ave Burbank Calif	46
Radio Essentials Inc 152 MacQuisten Pkwy Mt Vernon NY	27-32-34-44-46-48-49-50-51-52-53-54-56-59-60-63-68	Simpson Optical Mfg Co 3200 W Carroll Ave Chicago 24 Ill	40	Thale Eng'g Corp 2104 E Villa St Pasadena Calif	34
Radio Frequency Labs Inc Haddon NJ	55	Sinclair Mfg Co S Worcester St Chertley Mass	18-34-37-44-45-48-56-58-60-63-65-67	Thomas & Sons William Sloum Ave Ridgfield NJ	58
Rapid Specialties Co 325 W Huron St Chicago 10 Ill	17	SKF Industries Inc Front St & Erie Ave Philadelphia 32 Pa	2-37-64	Thompson-Bremer & Co Sub American Machine & Fdry 228 N La Salle St Chicago 1 Ill	18-28-37-44-50-60-64-65
Rau Fastener Co 102 Westfield St Providence RI	27	Skydyne Inc River Rd Port Jervis NY	33	Thomson Industries Inc 1029 Plandome Rd Manhasset NY	2-6-7-54
Raybestos-Manhattan Inc 61 Willett St Passaic NJ	7-30-42-68	Smith Inc Herman H 2325 Nostrand Ave Brooklyn 10 NY	4-11-12-14-15-17-21-22-26-32-34-44-46-49-50-51-53-54-56-59-60-63-64-65	Thor Ceramics Inc 225 Belleville Ave Bloomfield NJ	61
Raytheon Mfg Co Commercial Equip Div 100 River St Waltham 54 Mass	5-33-34	SouthCo Div South Chester Corp Lester Pa	28-34-48	Timber Top Inc 79 Conn Ave Freeport NY	10
Real Seal Electric Co 4321 Detroit Ave Cleveland 2 Ohio	7	Southern Screw Co P O Box 1350 E I D Statesville NC	49-50	Times Facsimile Corp 540 W 58 St New York 19 NY	11
Reeves Instrument Corp Roosevelt Field Garden City NY	20-21-22-31-47-54	South River Metal Products Co 377 Turnpike South River NJ	4-5-58	Timken Roller Bearing Co 1835 Duerber Ave S W Canton 6 Ohio	2
Refracton Corp Hoston Post Rd Stamford Conn	21	Sparta Mfg Co Dover Ohio	7-23-30-67	Tinnerman Products Inc Dept 16 P O Box 6588 Cleveland 1 Ohio	10-11-28-37-44
Reiner Electronics Co Centre & Glendale Sts Easton Pa	5-41-49-58	Spaulding Fibre Co 310 Wheeler St Tonawanda NY	7-32-63-67	Titan Metal Mfg Co Bellefonte Pa	24
Reliable Spring & Wire Forms Co 3147 Fulton Rd Cleveland 9 Ohio	10-16-57	Sphere Co 25 Amity St Little Falls NJ	6-8	Titchener & Co E H 67 Clinton St Hinghamton NY	33
Remler Co 2101 Bryant St San Francisco Calif	10-11-11-55	Spring Packing Corp 332 S Michigan Ave Chicago 4 Ill	29-30	Titeflex Inc Hendee St Springfield 4 Mass	10-11-20
Rembrandt Inc 6 Parmalee St Boston 18 Mass	23	Standard Electric Time Co 89 Logan St Springfield 2 Mass	46	Toman & Co E 8700 W 47 St Lyons Ill	24-33
Renshaw Pacific Div Arnold Eng'g Co 441 E 61 St Los Angeles 1 Calif	4-58	Standard Locknut & Lockwasher Inc 2250 Valley Ave Indianapolis 18 Ind	28-37-44-49-58-64-65	Torrington Co 59 Field St Torrington Conn	2-25-28-45
Republic Steel Corp Research Development Mfg Inc 429 E Collom St Philadelphia 41 Pa	31-49-54	Standard Pressed Steel Co Box 899 Jenkintown Pa	3-25-28-37-44-45-51-52	Townsend Co New Brighton Pa	3-28-37-43-44-45-48-50-52
Reynolds Metals Co P O Box 2346-ZF Richmond 18 Va	43-58	Standard Screw Co 2701 Washington Blvd Bellewood Ill	3-24-44-45-49-51-52	Townsend Co Cherry Rivet Div 1224 E Delhi Rd Santa Ana Calif	3-28-37-48-50-51-52-56
R-F Electronics Inc King Ave Weymouth Mass	49	Stanley Industrial Sales Stanley Works Lake St New Britain Conn	16-27-28-35-49-57-58-60-61-67	Transistor Electronics Co 3357 Republic Ave Minneapolis 28 Minn	17
Riesler & Sons Co M M Box 421 Taunton Mass	10-43	Star Porcelain Co 21 Muirhead Ave Trenton 9 NJ	61	Triad Transformer Corp 4055 Redwood Ave Venice Calif	8
Richards Electrocraft Inc 1432 N Kedmi Ave Chicago 18 Ill	46	Star Stainless Screw Co 655 Union Blvd Paterson NJ	3-44-45-49-50-51-52-64-65	Trico Fuse Mfg Co 2948 N 5 St Milwaukee 12 Wisc	10
Richardson Co 27 Ave & Lake St Melrose Park Ill	67	Staves Co 41-51 N Saxon Ave Bay Shore LI NY	8-11-15-16-23-27-28-30-56-58-60-62-63-65-67-68	Tricon Mfg Co 8008 Wallace St Chicago 20 Ill	18-60-65
Robinson Aviation Inc Teterboro NJ	41-42	Steel Co Herman D Lafayette Bldg Philadelphia 6 Pa	49	Tricraft Products Corp 1124 W Newport Ave Chicago 22 Ill	49-58
Robinson Machine Works 802 E * St New Albany Ind	3	Steinen Mfg Co Wm 43 Bruen St Newark 5 NJ	49-58-60-65	Tri-Ex Tower Corp 127 E Inyo St Tulare Calif	4-5
Rohle Mfg Co 8 Minor St Emmaus Pa	4-12-32	Sterling Bolt Co 363 W Erie St Chicago 10 Ill	3-44-50-51-52-60-65	Tronex Inc Whentown Ave Millvale NJ	6
Rouan Bros 4331 N Monticello Skokie Ill	33-47	Stewart Corp F W 4311 Ravenswood Ave Chicago 13 Ill	21-53	Tru-Lock Fasteners Inc Woodbury Conn	28
Russell Corp Rugers Conn	30-32-63-64	Stimpson Co Edwin B 70 Franklin Ave Brooklyn 5 NY	10-16-27-28-48-49-60-64	Tub-Lok Mfg Co 4049 Transport Palo Alto Calif	28
Rumac Products Co 18-01 25 Ave Long Island City 3 NY	58	Stokes Molded Products Div Electric Storage Battery Co 241 Taylor St Trenton 4 NJ	68	Tubular Rivet & Stud Co Weston Ave Wollaston 70 Mass	45
Rumar Plastics Inc 1311 E Main St St Charles Ill	33-47	Stone City Machine & Tool Co 1206 7 St Redford Ind	4-5-8-10-11-17-34-58	Turner Brass Works 821 Park Ave Sycamore Ill	24-33-58
Russell Burdall & Ward Bolt & Nut Co P O Box 111 Port Chester NY	3-28-37-44-46-48-50-51-52	Stromberg-Carlson Div General Dynamics Corp 100 Carlson Rd Rochester 3 NY	46	Uconite Co Div United-Carr Fastener Corp 459 Watertown St Newtonville 60 Mass	42
Safetex Glass Co 4717 Stenton Ave Philadelphia 44 Pa	1	Stupakoff Div Carburandum Co Latrobe Pa	6-7-61	U M & F Inc P O Box 14216 Dallas 34 Texas	58
Saginaw Steering Gear Div GMC 3900 Holland Saginaw Mich	1	Sun Tube Corp 181 Long Ave Hillside NJ	8	United Mineral & Chemical Corp 16 Hudson St New York 13 NY	27-48-58-66
St Marys Carbon Co State St St Marys Pa	27	Superior Electronics Corp 58 Marbiedale Rd Tuckahoe NY	46	United Screw & Bolt Corp 2513 W Cullerton St Chicago 8 Ill	1-3-28-31-37-44-45-49-50-51-52-58-60-64-65
Samplex Machine Co M M 208 Tazewell Pike Knoxville 18 Tenn	12-16	Swenson Co V H 556 Elm St Arlington NJ	7-17-65	United Shoe Machinery Corp 140 Federal St Boston 7 Mass	27-28-32-43-48-58-60-65
Schmidt Inc Geo T 4100 N Ravenswood Ave Chicago 13 Ill	30	Swiss Jewel Co Lafayette Bldg Philadelphia 6 Pa	2	Univac Inc 109 Marine St Farmingdale NY	49
Schuyler Mfg Corp 84 Pointe Ave N Arlington NJ	30-69	Switchcraft Inc 1328-30 N Halstead St Chicago 30 Ill	46	U S Gear Corp 81 Hay State Rd Wakefield Mass	31
Scientific Glass Apparatus Co 100 Lakeswood Terrace Bloomfield NJ	10	Sylvania Electric Products Inc Paris Div 12 2nd Ave Warren Pa	58	U S Graphite Co Div Wiggins Corp 1621 Holland Ave Saginaw Mich	2-7-18-31
Seovill Mfg Co 99 Mill St Waterbury 20 Conn	27-28-31-49-58	Symphony Electronics Corp 925 S Western Ave Los Angeles 6 Calif	5	Utility Brass & Copper Corp 255 Conover St Brooklyn 31 NY	54
Segal Edward 72 Spring St New York 12 NY	27	Taffet Radio & TV Co 27-05 Brooklyn-Queens Expressway W Woodside 77 NY	16-57-58	Van Keuren Co 176 Waltham St Watertown 72 Mass	43
Semrow Products Co 1817 N Ravenswood Ave Chicago 13 Ill	58-69	TA Mfg Corp 4607 Alger St Los Angeles 38 Calif	4-8-10-17-28-33-56	Vallorbe Jewel Co P O Box 958 Lancaster Pa	43
Servomechanisms Inc 12500 Aviation Blvd Hawthorne Calif	31	TA Mfg Corp 4607 Alger St Los Angeles 38 Calif	4-8-10-17-28-33-56	Vector Electronic Co 1100 Flower St Glendale 1 Calif	4-5-8-27-28-34-37-46-56
Servomechanisms Inc 1200 Prospect Ave Westbury NY	20-22-31-54	TA Mfg Corp 4607 Alger St Los Angeles 38 Calif	4-8-10-17-28-33-56	Virginia Electronics Co River Rd & B & O R R Washington 16 DC	33
Servo Systems Co 55 Newker Ave Newark 12 NJ	31	TA Mfg Corp 4607 Alger St Los Angeles 38 Calif	4-8-10-17-28-33-56	Volkert Stampings Inc 222-34 36 Ave Queens Village 29 NY	58

Walker Co George
118 Amsterdam Ave Passaic NJ 69

Waleco Electronics Mfg Co 3-4-5-6-7-10-12-14-
100 W Green St 16-17-19-27-28-29-32-34-37-
Rockford Ill 41-42-44-45-46-48-50-52-57-59-60-
61-62-63-64-65-68

Walsh Screw Co
77 Rumford Ave
Waltham 84 Mass 18-20-22-26-28-34-
44-46-48-47-49-54

Walton Tool & Die Co
2707 Empire Ave Burbank Calif 33

Waterbury Coa Inc
835 S Main St P O Box 1032
Waterbury Conn 27

Waterbury Pressed Metal
300 Chase Ave
Waterbury Conn 6-8-27-28-37-58-69

Wavesguide Inc
14887 Otanard St Van Nuys Calif 34

Weckesser Co
5701 Northwest Hwy
Chicago 80 Ill 2-10-44-67

Wedglock Corp
5446 Satauma Ave N Hollywood Calif 10-28

Western Felt Works
4029 Ogden Ave
Chicago Ill 7-29-32-41-42-62-67-68

Western Gear Corp Electro Products Div
132 W Colorado St Pasadena 1 Calif 31

Westfield Metal Products Co
1035 Lower Union St Westfield Mass 3-4-42-62

Westline Products Div Western Lithograph Co
600 E 2 St Los Angeles 64 Calif 39

Wheaton Co T C
Millville NJ 23

White Dental Mfg Co 98 Industrial Div
18 E 48 St New York 16 NY 21-58

Whiteford Lab
258 Broad St Lynn 9 Mass 55

Wilmington Fibre Specialty Co
New Castle Dela 7-80-82-58-63-67

Winder Aircraft of Fla
P O Box 2997 Drane Fld 4-5-10-16-17-28-30-
Lakeland Fla 82-41-42-55-56-60-62-65-68

Wind Turbine Co
E Market St & P R R W West Chester Pa 6

Winslow Co
701 Lehigh Ave Union NJ 2R-44

Winseler Mfg & Tool Co
7355 W Wilson Ave Chicago 31 Ill 31

Wisconsin Porcelain Co
121 Lincoln St Sun Prairie Wis 7-61

Wolfe Co P C/Div Parker Appliance Co
10567 Jefferson Blvd Culver City Calif 30

Wood Steel Co Alan
Conshohocken Pa 45

Worcester Pressed Aluminum Corp
13-15 Hope St Worcester 3 Mass 8-10

Workman TV Inc
909 Queen Anne Rd Teaneck NJ 16

Wrought Washer Mfg Co
2275 S Bay St 28-56-58-60-61-
Milwaukee 7 Wis 63-64-65-66-67

York Co Inc Otto H
6 Central Ave W Orange NJ 30

Zacora Gears Inc
1327 S Mint St Charlotte 9 NC 31

Zell Products Corp
280 Main St Norwalk Conn 68

Zierick Mfg Corp
Beechwood & Rockdale Ave
New Rochelle NY 10-14-16-34-58

Z. & W. Mfg Corp
80240 Lakeland Blvd Wickliffe Ohio 40

29—HEADPHONES

Headphones, crystal 1
Headphones, dynamic 2
Headphones, hearing aid 3
Headphones, magnetic 4

Altec Lansing Corp
1515 S Manchester Ave Anaheim Calif 2

Amplivox Ltd
2 Bentin St London W 1 England 3-4

Ardente Acoustic Lab Ltd
Minerva Rd London W 10 England 3-4

Audio Searo Corp
Shepard Hill Rd Roxbury NY 2-4

Audivox Inc
123 Worcester St Boston 18 Mass 3

British Industries Corp
80 Shore Rd Port Washington NY 2

Cannon Co C F
Springwater NY 4

Conn Telephone & Electric Corp
70 Britannia St Meriden Conn 4

Continental Electronics Ltd
302 Oakland St Brooklyn 22 NY 3

Dietaphone Corp
420 Lexington Ave New York 17 NY 2-3-4

Dyna-Empire Inc
1075 Stewart Ave Garden City LI NY 3-4

Electro-Voice Inc
Cecil & Carrol Sts Buchanan Mich 2

Fanon Electric Co
90 Berriman St Brooklyn 8 NY 1-3-4

Fen-Tone Corp
106 5th Ave New York 11 NY 2-4

Gary Wells Co
351 Rockaway Ave Valley Stream NY 4

Hal-Hea Co
36-14 11 St Long Island City 6 NY 3-4

Inauline Corp of America
186 Granite St Manchester NH 1

Knowles Electronics Inc
9400 Belmont Franklin Park Ill 3-4

Linar Inc
4101 San Fernando Rd Glendale 4 Calif 2

Melody Master Mfg Co
2842 N Cicero Ave Chicago 41 Ill 2

Myers & Sons E A
Valley Brook Rd Canonsburg Pa 3

Nichols & Clark Inc
321 Newburyport Tpk Danvers Mass 3

Permoflux Products Co
1101 San Fernando Rd Glendale 4 Calif 2

Philmore Mfg Co
113 University Pl New York 3 NY 1

Plastic Mold & Eng'g Co
167 Clifford St Providence RI 3

Remler Co
2101 Bryant St San Francisco Calif 3

Roflan Co
Topfield Mass 1-2-3-4

Sonotone Corp
P O Box 200-Saw Mill River Rd
Elmsford NY 3

Suporex Electronics Corp
58 Marble Rd Tuckahoe NY 1-2-3-4

Telephonics Corp
Park Ave Huntington LI NY 2-4

Telex
1633 Eustia St St Paul 1 Minn 2-3-4

Tel-Rad Electronics Corp
127-20 Rockaway Blvd
S Ozone Park 20 LI NY 2-4

Valandy Electronics Corp
61-35 166 St Flushing 68 NY 3

30—INDICATORS

Indicators, annunciator 1
Indicators, antenna position 2
Indicators, arc-over 3
Indicators, broadcast 4
Indicators, capacitor leakage 5
Indicators, data display 6
Indicators, deviation 7
Indicators, dew point 8
Indicators, dielectric constant 9
Indicators, film thickness 10
Indicators, frequency 11
Indicators, ground detector 12
Indicators, illumination 13
Indicators, industrial 14
Indicators, linear displacement 15
Indicators, magnetic field 16
Indicators, materials thickness 17
Indicators, medical electronic 18
Indicators, modulation 19
Indicators, moisture 20
Indicators, moving target 21
Indicators, null 22
Indicators, oxygen 23
Indicators, plan position 24
Indicators, power level 25
Indicators, pressure 26
Indicators, proximity 27
Indicators, pulse time rise 28
Indicators, radar 43
Indicators, radiation 29
Indicators, R-F 30
Indicators, servo 31
Indicators, shorted turn 32
Indicators, sound level 33
Indicators, speed 34
Indicators, strain 35
Indicators, telemetering 36
Indicators, temperature 37
Indicators, timing 38
Indicators, torque 39
Indicators, vacuum 40
Indicators, vibration 41
Indicators, volume 42

Abbeon Supply Co
178-15 Jamaica Ave Jamaica 32 NY 20

Abrams Instrument Corp
606 E Shawnee St Lansing 1 Mich 38

AC Electronics Div GMC
1925 E Kenilworth Pl Milwaukee 1 Wis 34

Advanced Electronics Inc
94 Silas Deane Hwy Rocky Hill 9 Conn 41

Advanced Products
83 Broadway North Haven Conn 38

Advance Industries Inc
640 Memorial Dr Cambridge 39 Mass 16

Aero Electronics Co
1512 N Wells St Chicago 10 Ill 6-7-31

Aeromotive Eng'g Products Ltd
8257 Queen Mary Rd Montreal Que Canada 1

Aerotec Corp
Pemberwick Rd Greenwich Conn 42

Airburner Electronics Co
6813 Trout Ave N Hollywood Calif 2

Airborne Instruments Lab Inc
160 Old Country Rd Mineola NY 2-25

Aircraft Radio Corp
Bloomington NJ 7

Airpux Products Co Seminole Div
City of Plantation Ft Lauderdale Fla 11

Airtron Inc
1105 W Elizabeth Ave Linden NJ 11

Alfred Electronics
897 Commercial St Palo Alto Calif 40

Allard Instrument Corp
146 E 2 St Mineola LI NY 1-6

Amerac Inc
Dunham Rd Beverly Mass 11

American Communications Corp
280 Broadway New York 17 NY 1

American Electronic Laboratories
121 N 7 St Philadelphia 6 Pa 23

American Instrument Co
8050 Georgia Ave Silver Springs Md 8-10-20

American Machine & Foundry Co
Defense Products Group 3-10-11-21-
1101 N Royal St 26-27-36
Alexandria Va

American Machine & Foundry Co
Electronics Div
1085 Commonwealth Ave
Boston 15 Mass 6-21-24

American Research Products
Box 185 Sorrento Fla 27

Analogue Controls Inc
39 Roselle St Mineola NY 6-31

Analytic Systems Co
Div Research Instrument Corp
380 N Fair Oaks Ave Pasadena Calif 23

Antial Inc
6330 Proprietors Rd Worthington Ohio 2

Applied Science Corp of Princeton
P O Box No 44 Princeton NJ 36

Arlin Products Inc
13541 Auburn Ave Detroit 23 Mich 18-17

Arnoux Corp
11924 W Washington Blvd
Los Angeles 66 Calif 37

Assembly Products Inc
75 Wilson Mills Rd Chesterland Ohio 37

Associated Research Inc
3777 W Belmont Ave Chicago 18 Ill 12-34

Atlas Precision Products Co
3801 Castor Ave Philadelphia 24 Pa 31

Auth Electric Co
34-20 45 St Long Island City 1 NY 1

Authorized Mfrs Service Co
319 Wyckoff Ave Brooklyn 27 NY 7

Audacall Co
57 Mack Ave Shelby Ohio 1

Automatic Timing & Controls Inc 7-10-14-15-
King of Prussia Pa 17-22-26-27-31-35-38-39-42

Automation Instruments Inc
Industrial Pk Boulder Colo 10-17

Bach-Simpson Ltd
1255 Brydges St
London Ont Canada 11-22-30

Bailey Meter Co
1050 Ivanhoe Rd
Cleveland 10 Ohio 23-26-34-36-37

Baird-Atomic Inc
33 University Rd Cambridge 38 Mass 29

Baker & Co
113 Astor St Newark 2 NJ 8-23

Barker & Williamson Inc
Canal & Beaver Sts Bristol Pa 22-29-30

Baldwin-Lima-Hamilton Corp
Electronics & Instrumentation Div
42 Fourth Ave Waltham 44 Mass 26-39

Ballantine Labs Inc
Bloomington NJ 22

Barber-Colman Co
1300 Rock St Rockford Ill 22-26-37

Barnes Development Co
213 W Baltimore Ave
Lansdowne Pa 5-7-22-27

Beach-Russ Co
50 Church St New York 7 NY 20-40

Beckman Instruments Inc Data & Control
Systems Scientific Instrument Div
325 N Muller Ave Anaheim Calif 6

Beckman & Whitley
973 E San Carlos Ave San Carlos Calif 37

Bendix Aviation Corp Pacific Div
11600 Sherman Way N Hollywood Calif 36-43

Bendix Aviation Corp of Pioneer-Central Div
2734 Hickory Grove Rd
Davenport Iowa 23-31

Bendix Aviation Corp/Fries Instrument Div
1400 Taylor Ave
Baltimore 4 Md 20-25-34-37-39

Bendix Aviation Corp
1104 Fisher Bldg Detroit 2 Mich 36

Bendix Aviation Corp Cincinnati Div
3130 Wason Rd Cincinnati 8 Ohio 14-29

Benson-Lehner Corp
11930 W Olympic Blvd
Los Angeles 64 Calif 5

Berzen Labs
247 Crooks Ave Clifton NJ 23-37-39

R I F Industries
346 Harris Ave Providence RI 36

R J Electronics Borg-Warner Corp
3800 Newport Ave Santa Ana Calif 29

Bounton Electronics Corp 738 Speedwell Ave Morris Plains NJ 11-22-80	Electro Instrument Inc Acro Ct San Diego Calif 18	Gordon Co Claude S 3000 E Wallace St Chicago 16 Ill 37
Bristol Co P O Box 1790 El 7-8-11-20-22-23-25-26- Waterbury Conn 31-34-35-36-37-38-40	Electro-Measurements Inc 3524 S W Macadam Ave Portland 1 Ore 22	Gordon Enterprises 3852 N Cahuena Blvd N Hollywood Calif 38-39
British Electronic Sales Oakland Gardens Flushing 64 NY 6	Electronic Associates Inc Long Branch NJ 6-31-48	Gow-Mac Instrument Co 100 Kings Rd Madison NJ 23
Bruno-New York Industries Corp 460 W 34 St New York 1 NY 22	Electronic Communications Inc 1501 72 St St Petersburg Fla 7-11-30-48	Graphic Recorders Inc 14 Edgewood Ave Trumbull Conn 31
Brush Instruments 3405 Perkins Ave 11-14-26-33-35- Cleveland 14 Ohio 36-37-39-41	Electronic Specialty Co 5121 San Fernando Rd Los Angeles 39 Calif 30	Green Rectifier Co 1-10 30 St Fairlawn NJ 26-40
Burrughs Corp Electronic Tube Div Box 1226 Plainfield NJ 6	Electronic Tube Corp 1200 E Mermaid Lane Phila 18 Pa 35	Gruen Industries Inc/Electronic Products Div 9701 Reading Rd Cincinnati 15 Ohio 21-43
Cambridge Instrument Co Grand Central Terminal New York 17 NY 20-23-41	Electro Physics Co 237 Broadway New York 7 NY 18	Gulton Industries Inc 212 Durham Ave Metuchen NJ 10-36-37-41
Canoga Corp 5935 Sepulveda Blvd Van Nuys Calif 43	Electro Products Labs Inc 4501 N Ravenswood Ave Chicago 40 Ill 11-26-27-34-41	Hagan Chemicals & Controls Inc 343 4 Ave Pittsburgh 30 Pa 14-26-40
Cardinal Instrumentation Corp 4201 Redwood Ave Los Angeles 66 Calif 36-37	Electro-Pulse Inc 11001 Teale St Culver City Calif 11	Hal-Hen Co 3614 11 St Long Island City 6 NY 20
Central Electronic Mfrs Inc Sub Nuclear Corp of America 2 Richwood Pl Denville NJ 40	Elfa Instrument Center 65 Reale St New York 7 NY 37	Hallamore Electronics Co 8852 Brookhurst Ave Anaheim Calif 16
Central Research Labs Red Wing Minn 9	Elia Associates 67 Lincoln Ave Pelham NY 35	Haller Raymond & Brown Circleville Rd State College Pa 1-6-43
Central Scientific Co 1700 Irving Park Rd Chicago 13 Ill 40	Elison Draft Gage Co 345 W Monroe St Chicago 6 Ill 14-26-40	Hallikainen Instruments 1841 7 St Berkeley 10 Calif 9
Central Scientific Co of Calif 1040 Martin Ave Santa Clara Calif 20-40	El-Tronics Inc Penn Ave Mayfield Pa 8	Hanley Electronics Inc 14758 Keawick St Van Nuys Calif 37
Chemalloy Electronics Corp Gillespie Airport Santee Calif 25	Empire Product Sales Corp 3 Prospect St Amsterdam NY 19	Hastings-Raydist Inc Newcomb Ave Hampton Va 40
Chesapeake Instrument Corp Shady Side Md 33	Englehard Industries Inc 113 Astar St Newark NJ 28	Haydon Co A W 282 N Elm St Waterbury 20 Conn 34
Chicago Industrial Instrument Co 865 N Sangamon St Chicago 22 Ill 20	Engineered Electronics Co 506 E 1 St Santa Ana Calif 6	Haydon Div General Time Corp 246 E Elm St Torrington Conn 28
Chrono-Log Corp P O Box 4887 Phila 31 Penna 6-38	Epaco Inc 588 Commonwealth Ave Boston 15 Mass 6	Hays Corp 742 1 8th St Michigan City Ind 23-26-37
Cleveland Instrument Co 735 Carnegie Ave Cleveland 15 Ohio 7-15	Erwood Inc 1770 W Herterue Ave Chicago 18 Ill 41	Haseltine Electronics Div/Haseltine Corp 59-25 Little Neck Pkwy Little Neck 62 NY 6-21-43
Columbia Research Labs MacDade Blvd & Bullens La Woodlyn Pa 41	ESC Corp 534 Bergen Blvd Palisades Park NJ 2	High Vacuum Equipment Corp 2 Churchhill Rd Hingham Mass 40
Communication Equipment & Eng'g Co 5646 W Race Ave Chicago 44 Ill 1	Essex Mfg Co 8213 Gravo Ave St Louis 23 Mo 29	Hill & Co E Vernon P O Box 189 Lake Geneva Wis 8-26-37
Consolidated Electrodynamics Corp 300 N Sierra Madre Villa Pasadena Calif 15-20-26-35-36-40-41	Exact Eng'g & Mfg Inc P O Box 668 Oceanside Calif 6-21-31-38-43	Hoffman Electronics Corp 3751 S Hill St Los Angeles 7 Calif 26-31-38-39
Consolidated Electrodynamics Corp Rochester Div 1775 Mt Read Blvd Rochester 4 NY 40	Farnsworth Electronics Co Div I T & T 3702 E Pontiac St Ft Wayne Ind 6-29-48	Rogan Labs Inc 165 Perry St New York 14 NY 6-36
Continental Electric Co Taylor Tubes Inc 6 N Michigan Ave Chicago 2 Ill 40	Federal Products Corp 1144 Eddy St Providence RI 10-14	Humphrey Inc 2805 Canon St San Diego Calif 15
Control Electronics Co Inc 1925 New York Ave Huntington Str NY 11-43	Feedback Controls Inc 899 Main St Waltham 54 Mass 31	Hupp Instrumentation Div Erie-Pacific 12932 S Weber Way Hawthorne Calif 11
Convair-San Diego P O Box 1960-San Diego 12 Calif 43	Fenwal Inc Pleasant St Ashland Mass 37	Illinois Testing Labs Inc 420 N LaSalle St Chicago 10 Ill 8-37
Crescent Eng'g & Research Co 5440 N Peck Rd 7-10-15-17-22-25- El Monte Calif 26-31-35-39-41	Fielden Instrument Div 14-15-20- Robertshaw-Fulton Controls Co 29-34-37- 2920 N 4 St Philadelphia 33 Pa 39-41	I-L-S Instrument Corp 4525 W 160 St Cleveland 11 Ohio 11-34-38
Curtiss-Wright Corp Electronics Div 631 Central Ave Carlstadt NJ 7-10-15-22	Fischer & Porter Co 478 Warminster Rd Hathoro Pa 6-14-26-37-40	Impact-O-Graph Corp 1900 Euclid Ave Cleveland 15 Ohio 15-41
Custom Scientific Instruments Inc 541 Devon St Wardside 77 NY 15	Ford Instrument Co Div Sperry Rand Corp 31-10 Thomson Ave Louis Island City 1 NY 37	Indikon Co 76 Coolidge Hill Rd Wauwatosa 72 Mass 7-26-37-41
Dallons Labs 5966 Santa Monica Blvd Los Angeles 29 Calif 18	Forro Scientific Co 833 Lincoln St Evanston Ill 29	Industrial Control Co 805 Albin Ave Lindenhurst LI NY 31-35
Datran Electronics 1836 Rosocrana Ave Manhatten Beach Calif 22-26-31-35-39	Foxboro Co Neponset Ave Foxboro Mass 8-9-10-14-20-22- 26-34-36-37-38-42	Industrial Development Labs Inc 17 Pollock Ave Jersey City 5 NJ 22
Dayven Co Route 10 Livingston NJ 6-19-22-42	Fredericks Co Geo E Bethayres Pa 26-40	Industrial Electronic Engineers 8873 Lankershim Blvd N Hollywood Calif 1
Daytron Corp 1713 N Ashland Ave Chicago 22 Ill 33	Freed Transformer Co 1718-36 Weirfield St Brooklyn 27 NY 22	Industrial Nuclears Corp 1205 Chesapeake Ave Columbus 12 Ohio 10-17
Defender Instrument & Regulator Co Hondy Ill 26-37	Fried Instrument Div Bendix Aviation Corp 1400 Taylor Ave Baltimore 4 Md 14-20-37	Ind Test Equip Co 55 E 11th St New York 3 NY 7-22-31
Dejuri-Amsco Corp Electronic Sales Div 46-01 Northern Blvd Long Island City 1 NY 13-25-33-37-38	Frequency Standards Inc P O Box 504 Asbury Park NJ 11-30	Industrial Timer Corp 1407 McCarter Hwy Newark 4 NJ 38
Designers For Industry 4241 Fulton Pkwy Cleveland 9 Ohio 6-48	Gates Radio Co 123 Hampshire St Quincy Ill 4-7-11-19-42	Instrument Labs 815 W Walton Pl Chicago 10 Ill 14
Detroit Controls Corp Norwood Controls Unit 934 Washington St Norwood Mass 22-26-31-37	General Controls Co 801 Allen Ave Glendale 1 Calif 2-14-15-26-31-37-40	Instruments Inc 192 N Madison St Tulsa Okla 9-29
Diatron Co 3327 Dixie Dr Houston 21 Texas 1-33	General Electric Co West Springfield Mass 12-14-42	International Research & Development Corp P O Box 55 Worthington Ohio 11-41
Dietzen Co Eugene 2425 N Sheffield Ave Chicago Ill 15-17	General Electric Co 1 River Rd Schenectady 5 NY 34-36-37-38-40-41	International Telephone & Telegraph Corp Industrial Products Div 260 Garabaldi Ave Lodi NJ 9-11-22
Dipteran Co 45 W Union St Pasadena Calif 8	General Electric Co Heavy Mil Electronic Equip Dept Syracuse NY 6-21-48	Irwin Labs 1238 S Gerhart Ave Los Angeles 22 Calif 16
Donner Scientific Co 888 Galindo St Concord Calif 22	General Radio Co 275 Massachusetts Ave Cambridge 39 Mass 11-19-22-33-34-41	Isotopes Specialties Co Box 684 Burbank Calif 29
Dunlap Electronics 764 W St Des Moines 14 Iowa 11-38	General Railway Signal Co P O Box 600 Rochester NY 6-12-36	Jacksonville Metals Plastics Co 675 Dara St Jacksonville Fla 13-14
Dynne Inc 395 Pace Mill Rd Palo Alto Calif 6-11-36	General Scientific Equipment Co 7516 Limekiln Pike Phila 50 Pa 33	Jeffrey Mfg Co 803 N 4 St Columbus 16 Ohio 17
Dynamic Electronics Inc 75-29 Woodhaven Blvd Forest Hills NY 27-28-29-30-43	Genico Inc 2233 Federal Ave Los Angeles 64 Calif 41	Johnson Aircraft Eng'g Co Geophysical Services Div P O Box 10 Morristown NJ 12
Dynamic Instrument Corp 59 New York Ave Westbury NY 22-31	Getach Products Inc 3211 La Cienga Blvd Los Angeles 25 Calif 31	Johnson Co E F 208 2 Ave SW Waseca Minn 2
Dynatron Inc P 17 W Amelia Ave Orlando Fla 36	General Devices Inc P O Box 263 Princeton NJ 34	Kahn & Co 641 Windsor St Hartford 1 Conn 8-17-20-38-41
Eberline Instrument Div Reynolds Electrical 805 Early St Santa Fe NM 29	Gilmore Industries Inc 5713 Euclid Ave Cleveland 3 Ohio 6-14-22-26- 35-37-39-41	Kartron P O Box 472 Huntington Beach Calif 32
Eclipse-Pioneer Div Rendix Aviation Corp Teterboro NJ 6-7-31	Godfrey Mfg Co 1633 N Halsted St Chicago 14 Ill 1	Kay Electric Co 14 Maple Ave Pine Brook NJ 11-28-30-33-41
Edison Industries Thomas A Instrument Div McGraw-Edison Co 5 Lakeside Ave W Orange NJ 26-37	Goldak Co 1544 W Glenoaks Blvd Glandale 1 Calif 29	Kearfoot Co Inc 1878 Main Ave Clifton NJ 31
Electric Boat Div General Dynamics Eastern Point Rd Groton Conn 6-31-41	Good Electronics Corp 17-19 Brooks St Newton 59 Mass 33	King Electric Equipment Co 9123 Inman Ave Cleveland 8 Ohio 34

Kistler Instrument Corp
15 Webster St N Tonawanda NY 26-40-41

Kollman Instrument Corp
Standard Coil Products Sub
80-08 45 Ave Elmhurst 73 NY 26-34

Kubernetes Corp
8 E 40 St New York 16 NY 37

Laboratory Equipment Corp
Lakeview & Hilltop Rd St Joseph Mich 23

Laboratory for Electronics Inc
76 Pitts St Boston 14 Mass 30-38-41-43

Land-Air Inc Instrument & Electronic Div
2133 Adams Ave San Leandro Calif 38

Land-Air Inc
7444 W Wilson Ave Chicago 31 Ill 29-41

Landsverk Electrometer Co
641 Sonora Ave Glendale 4 Calif 29

Leair Inc
3171 S Bundy Dr Santa Monica Calif 6-7-31

Leair Inc
110 Ionia Ave NW
Grand Rapids 2 Mich 6-30-31

Leeds & Northrup Co
4970 Stenton Ave
Philadelphia 44 Pa 13-22-37

Leupold & Stevens Instruments Inc
4445 NE Glean St Portland 13 Ore 38

Lewis Eng'g Co
399 Church St Naugatuck Conn 37

Liquidometer Corp
41-03 36 St
Long Island City 1 NY 6-23-31-36-37-42

Lutton Industries of Calif
336 N Foothill Rd Beverly Hills Calif 6-21

Loral Electronics Corp
825 Bronx River Ave New York 72 NY 6-30

Mack Electronics Div Inc
1000 S 8 St Plainfield NJ 6-19

Magnaflex Corp
7500 W Lawrence Ave
Chicago 31 Ill 10-16-17-35

Magnavox Co
2131 Bueter Rd Ft Wayne 4 Ind 43-6

Magnetics
Box 5860 Washington 20 DC 16

Magnetrol Inc
240 Seneca St Buffalo 2 NY 34-39

Manning Maxwell & Moore Inc
Industrial Controls Div
Shelter Rock Lane
Danbury Conn 14-26-35-37-40

Manning Maxwell & Moore Inc
250 E Main St
Stratford Conn 14-26-35-36-37-40

Mannatut Corp 20-26 N Moore St
New York 13 NY 26-40

MH Mfg Co Div Tectron Inc
P O Box 1825 New Haven 11 Conn 41

Measurement Eng'g Ltd
232 John St Arnprior
Ontario Can 6-9-10-12-13-15-17-18

Menlo Research Lab
538 Phelan Ave San Jose Calif 29

Metron Instrument Co
432 Lincoln St Denver 3 Colo 34

Michigan Electronics Inc
854 N Rockwell St Chicago 22 Ill 4

Milgo Electronic Corp
7601 NW 37 Ave Miami 47 Fla 6-38

Millen Mfg Co James
150 Exchange St Malden 48 Mass 11

Miller Electro-Research Labs
6529 S 5 St Milwaukee 7 Wis 37

Millers Falls Co
57 Wells St Greenfield Mass 34

Millitest Co
88 Madison Ave Hempstead NY 22

Minatron Corp
Helle Mead 9 NJ 15

Mincro Products Inc
740 Washington Ave Minneapolis 1 Minn 37

Mine Safety Appliances Co
201 N Braddock Ave
Pittsburgh 8 Pa 8-20-23-33

Minn-Honeywell Boston Div
1400 Soldiers Field Rd Boston 35 Mass 22

Minn-Honeywell Regulator Co
Aeronautical Div
2600 Ridgway Ave
Minneapolis 15 Minn 6-9-15-22-23-25-26-34-37-42

Minn-Honeywell Regulator Co
Rubicon Instruments
Ridge Ave at 35 Sts Philadelphia 32 Pa 32

Missileconics Inc
P O Box 716 Melbourne Fla 36-38-43

Missouri Research Labs Inc
2109 Locust St St Louis 8 Mo 43

Moeller Instrument Co
132-02 89 Ave Richmond Hill 18 NY 37-40

Moisture Register Co
P O Box 910 Alhambra Calif 20

Moore Associates Inc
2628 Spring St
Redwood City Calif 1-14-35-36-38

Moseley Co FL
409 N Fair Oaks Ave Pasadena Calif 2

Muirhead Instruments Inc
677 5 Ave New York 22 NY 22-31

Multison Solders Ltd
Maylands Ave Hemel Hempstead
Hertfordshire England 37

Naylor Laboratories Inc E V
26 Manorhaven Blvd Port Washington NY 1

Nevada Air Products Co
P O Box 2472 Reno Nev 18-29

Non-Linear Systems Inc
Del Mar Airport
Del Mar Calif 6-7-35-37

Norden-Ketay Corp
Commerce Rd Stamford Conn 26-26

North American Instruments Inc
2420 N Lake St Altadena Calif 26

North Atlantic Industries Inc
603 Main St Westbury NY 6-31

Northeast Electronics Corp
Airport Rd Concord NH 26-30-36

Norwood Controls Unit Detroit Controls
Div American Standard
934 Washington St Norwood Mass 26-34-35

NRC Equipment Corp
160 Charlemont St
Newton Highlands 61 Mass 40

NRD Instrument Co
9842 Manchester Rd St Louis 14 Mo 29

Nuclear-Chicago Corp
223 W Erie St Chicago 10 Ill 29

Nuclear Corp of America
400 Park Ave New York 22 NY 10-29

Nuclear-Electronics Corp
2632 W Cumberland St Philadelphia 32 Pa 29

Nuclear Measurements Corp
2460 N Arlington Ave
Indianapolis 18 Ind 29

Nucleonic Corp of America
195 Degraw St Brooklyn 31 NY 29

O'Brien Electric Corp
6514 Santa Monica Blvd
Hollywood 38 Calif 1

Omega Instrument Co
103 E Altadena Dr Altadena Calif 26-41

Oped Electric Co
69 Murray St New York 7 NY 12-14

O & S Research Inc
1811 Hannard St Riverton NJ 6

Oster Mfg Co John Avionir Div
1 Main St Racine Wis 31

Panellit Inc
7401 N Hamlin Ave Skokie Ill 1

Panoramic Radio Products Inc
520 Fulton Ave Mt Vernon NY 19-36

Parks Electronics Corp
12311 Bothell Way Seattle 55 Wash 20

Parr Mfg Corp
44 Austin St Newark 2 NJ 12

Parsons Co Ralph M Electronics Div
181 S De Lacey Ave
Pasadena Calif 27-36-38

Partlow Corp
211 Campion Rd New Hartford NY 37

Patent Button Co
P O Box 710 Waterbury 20 Conn 6

Partrick & Wilkins Co
51 N 7 St Philadelphia 6 Pa 14

Patterson Mous Div Universal Winding Co
30-24 Van Wyck Expressway
Jamaica 18 NY 12-29-38

Penn-East Eng'g Corp
Box 240 Kutstown Penna 32

Performance Measurements Co
15301 W McNichols Rd
Detroit 35 Mich 15-35-39

Peschel Electronics Inc
13 Garden St New Rochelle NY 8-9-14

Phaetron Instrument & Electronic Co
151 Pasadena Ave S Pasadena Calif 22

Photocron Research Products
421 N Altadena Dr
Pasadena Calif 10-15-17-26-27

Photographic Analysis Inc
13273 Ventura Blvd N Hollywood Calif 23

Pico Products Co
Whitney St Sherborn Mass 37

Plastek Inc
P O Box 551 Poteau Okla 1

Polarad Electronics Corp
43-20 34 St
Long Island City 1 NY 30-31-43

Potter Aeronautical Corp
Route 22 Union NJ 6-11-34

Powers Regulator Co
3400 Oakton St Skokie Ill 26-37

Precision Apparatus Co
70-31 84 St
Glendale 27 LI NY 22-33-42

Precision Scientific Co
3737 W Cortland St Chicago 47 Ill 20

Precision Thermometer & Instrument Co
1434 Brandyswine St
Philadelphia 30 Pa 37-40

Process & Instruments
15 Stone Ave Brooklyn 33 NY 40

Pye Canada Ltd
82 Northline Rd
Toronto 16 Ontario Canada 11-16

Pyrometer Instrument Co
92 Portland Ave Bergenfield NJ 37

Radar Engineers
401 E 45 St Seattle 8 Wash 12

Radiation Inc
P O Box 37 Melbourne Fla 6-31-36

Radio City Products Co
Centre & Glendale Sts Easton Pa 2-8-43

Ram Meter Inc
1100 Hilton Rd Ferndale 20 Mich 11

Rawson Electrical Instrument Co
116 Potter St Cambridge 42 Mass 16

Raytheon Mfg Co
100 River St Waltham 54 Mass 43

Rea Co J B
1723 Cloverfield Blvd
Santa Monica Calif 6-16-31-36-34

Reed & Reese Inc
717 N Lake Ave Pasadena 6 Calif 15-26-35

Reeve Instrument Corp
Roosevelt Field Garden City NY 31

Reliance Electric and Eng'g Co
24701 Euclid Ave Cleveland 17 Ohio 34

Republic Aviation Corp
Farmingdale LI NY 42

Resdel Eng'g Corp
330 S Fair Oaks Ave Pasadena Calif 25-35

Research Industrial Lab of Electronics
Roslyn Pa 10-40

Resitron Labs Inc
2908 Nebraska Ave Santa Monica Calif 40

Rich Electronics Inc
212 NW 8 Ave Miami 36 Fla 2

Robinette Co W C
802 Fair Oaks Ave S Pasadena Calif 31

Royco Instruments
720 Arthur St Albany Calif 37

Royco Instruments Inc
874 Fabian Way Palo Alto Calif 37

Roy Co Milton
1300 E Mermaid La Phila Penna 8

Saratoga Industries
Congress & Hallaton Aves
Saratoga Springs NY 11

Seasco Controls Inc
P O Box 41 Cooper St
Delanco NJ 26-37-38

Schaevitz Eng'g
U S Rte 130 & Schaevitz Hlvd
Camden NJ 13

Scherr Co George
200 Lafayette St
New York 12 NY 10-15-17-39

Scientific-Atlanta Inc
2162 Piedmont Rd N E Atlanta 9 Ga 2

Scientific Eng'g Lab
2436 Sacramento St Berkeley Calif 40

Seismograph Service Corp
6200 E 41 St Tulsa 1 Okla 6-31

Semcom
262 E 16 St Paterson 4 NJ 22

Sensitive Research Instrument Corp
310 Main St New Rochelle NY 11-16

Serdex Inc
Hendon Sq Boston 14 Mass 20

Servo Corp of America
2020 Jericho Turnpike
New Hyde Park NY 31-37

Servomechanisms Inc
12500 Aviation Blvd Hawthorne Calif 4

Servonics Inc
822 N Henry St Alexandria Va 31

Servo-Recording Instruments Inc
1815 W Van Buren St Phoenix Ariz 29

Servo-Tek Products Co
1086 Goffe Rd Hawthorne NJ 34

Shallcross Mfg Co
Jackson & Pusey Aves Collingdale Pa 27

Shand & Jurs Co
2600 8th St Berkeley 10 Calif 1-36

Shannon Luminous Materials Co
7356 Santa Monica Blvd
Hollywood 46 Calif 6

Signalite Inc
37 Neptune Hwy Neptune NJ 13

Simmonds Aerossories Inc
105 White Plains Rd Tarrytown NY 47

Simmonds Aerossories Inc
Vergennes Vt 31-36

Simplex Valve & Meter Co
7 E Orange St Lancaster Pa 36

Skiatron Electronics & TV Corp
180 Varick St
New York 14 NY 31-34-36-37-38-43

Skyway Precision Tool Co
825 E Broadway San Gabriel Calif 39

Southern Instruments Computer Div
Frimley Rd Camberley Surrey England 8

Specialties Inc
Skunka Minery Rd Syosset LI NY 19

Specialty Eng'g & Electronics Co
79 Clifton Pl Brooklyn 34 NY 29

Sperry Gyroscope Co Marine Div
Roosevelt Field Mineola NY 11-43

Sperry Gyroscope Co
Microwave Electronics Div
Great Neck NY 25

Stanadar Electronics Research Corp
2 E End Ave New York 21 NY 10-17

Stanley Aviation Corp
2501 Dallas St Denver Colo 27-29

Statistical Instr Co
330 Haven Ave New York 33 NY 22-41

Stewart Instrument Co
6507 Grand River Detroit 8 Mich 14-25-26

Stewart Warner Electronics Div
1300 N Kostner Ave Chicago 51 Ill 12

Sticht Co Herman H
27 Park Pl New York 7 NY 11-34

Stokes Corp F J
6500 Tabor Rd Philadelphia 20 Pa 40

Strandberg Eng'g Labs Inc
416 W Market St Greensboro N Carolina 20

Stromberg-Carlson Div General
Dynamics Corp
1895 Hancock St San Diego 12 Calif 8

Studebaker Hydraulic Products Co
1738 N 33 Ave Melrose Park Ill 26

Suffolk Products Corp
Woodhine & Scudder Ave Northport NY 43

Suncoast Instruments Div Milton Roy Co
6301 49th St St Petersburg Fla 8

Surface Combustion Corp 2375 Dorr St Toledo 1 Ohio	8	West Coast Research Corp 2371 1/2 Westwood Blvd Los Angeles 64 Calif	6-15-21-24-27- 31-35-36-37	Alto Scientific Co 855 Commercial St Palo Alto Calif	11
Swan Electronics Co 8016 N Austin Ave Chicago 30 Ill	30	Western Electro Acoustic Lab Inc 11789 San Vicente Blvd Los Angeles 49 Calif	33	American Air Filter Co 215 Central Ave Louisville 8 Ky	18
Syston Corp 2055 Concord Blvd Concord Calif	11-14-29-38	Westinghouse Electric Co Div Air Arm Div P O Box 748 Friendship Intl A P Baltimore Md	43	American Electronics Inc 655 W Washington Blvd Los Angeles 15 Calif	1
Talbot Instrument Corp 111 Goundry St N Tonawanda NY	26-37	Westinghouse Electric Corp P O Box 868 Pittsburgh 30 Pa	11-12-25-27- 30-33-36-37-38	American Gyro Corp 3030 Nebraska Ave Santa Monica Calif	21
Talier & Cooney 55 Front St Brooklyn 1 NY	1-6-36	West Instrument Corp 4363 W Montrose Ave Chicago 41 Ill	37	American Mica Insulation Co 235 Parker Ave Manasquan NJ	12
Tatnall Measuring Systems Co P O Box 245 Phoenixville Pa	35	Weston Electrical Instrument Corp 614 Frelinghuysen Ave Newark 12 NJ	5-11-13-29-33-37-42	American Optical Co Instrument Div Box A Buffalo 15 NY	2-9
Taylor Instruments Companies 95 Ames St Rochester 1 NY	7-14-20-25-26-34-37-40	Westronics Inc 3605 McCart Ft Worth Texas	31-34-37	American Rectifier Corp 95 Lafayette St New York 13 NY	8
Tech Labs Hergen & Edsall Blvd Palmdale Park NJ	20	Wind Turbine Co E Market St & P R R W West Chester Pa 2	11-22	American Searchlight Corp 38 W 53 St New York NY	12-14
Technical Oil Tool Corp 1057 N La Brea Los Angeles 38 Calif	34	Winslow Co 701 Lehigh Ave Union NJ	29	American Speedlight Corp 67-61 Metropolitan Ave Middle Village 79 NY	7
Telectro Industries Corp 35-18 37 St Long Island City 1 NY	6-7-11-19-21- 29-31-36-43	Wood Counter Lab N 1525 E 53 St Chicago 15 Ill	29	Anglo Corp 4333 Ravenwood Ave Chicago 13 Ill	7
Telerad Mfg Corp Route 69 Flemington NJ	30-43	Yellow Springs Instrument Co P O Box 106 Yellow Springs Ohio	37	Amplivox Ltd 2 Bentiner St London W 1 England	21
Telerad Mfg Corp 1440 Broadway New York 18 NY	36-43	Zenith Electric Co 152 W Walton St Chicago 10 Ill	38	Analytic Systems Co Div Research Instrument Corp 980 N Fair Oaks Ave Pasadena Calif	2-14-25
Tel-Instruments Electronics Corp 723 Gayden St Carlstadt NJ	41			Andrew California Corp 941 E Maryland Ave Claremont Calif	12
Tempil Corp 132 W 22 St New York 11 NY	37			Andrew Corp 363 E 75 St Chicago 19 Ill	13
Thermo Electric Co 109 5 St Saddle Brook NJ	37			Annex Co Inc 1101 N Delaware St Indianapolis 2 Ind	4-12
Thermo Electric Co 6112 Huff St Dubuque Iowa	37			Anton Electronic Labs 1226 Flushing Ave Brooklyn 37 NY	15
Theta Instrument Corp 48 Pine St E Paterson NJ	31			Arvin Products Inc 13541 Auburn Ave Detroit 13 Mich	9-10-19
Thwing Albert Instrument Co 5355 Pulaski Ave Phila 4 Pa	22-35-37			Associated Research Inc 5777 W Belmont Ave Chicago 18 Ill	11
Touch-Plate Mfg Corp P O Box 1970 Long Beach 1 Calif	1			Atlantic Research Corp 901 N Columbus St Alexandria Va	21
Tracerlab Inc 1601 Trapelo Rd Waltham 54 Mass	10-29			Atlas Precision Products Co 3801 Castor Ave Philadelphia 24 Pa	26
Transistor Devices Inc 730 Blvd Kenilworth NJ	11			Audicon Electronics Inc 218 Lyon St Paterson 4 NJ	7-13-23-24
Transistor Electronics Co 3357 Republic Ave Minneapolis 26 Minn	6			Automatic Timing & Controls Inc King of Prussia Pa	19-21
Trimount Instrument Co 3119 W Lake St Chicago 12 Ill	26-27-40-42			Automation Instruments Inc Industrial Pk Boulder Colo	9-10-19-20
Triplett Electrical Instrument Co Harmon Rd Bluffton Ohio	33			Avion Div ACF Industries Inc 41 Park Pl Paramus NY	14-22
Tri-R Instruments 24-15 44 Rd Long Island City 1 NY	32			Axler Associates Inc 102-42 43 Ave New York 68 NY	25
Tri-Tronics Co 2607 St Charles Rd Bellwood Ill	27			Bach-Simpson Ltd 1255 Brydges St London Ont Canada	2
Tullamore Electronics Lab 6055 S Ashland Ave Chicago 36 Ill	6-17-28-29			Baird-Atomic Inc 33 University Rd Cambridge 38 Mass	2-14-28
UCA Electronics Div Universal Transistor Prods Corp 50 Bond St Westbury LI NY	29			Baldwin-Lima-Hamilton Corp Electronics & Instrumentation Div 42 Fourth Ave Waltham 54 Mass	2-5-21
Union Switch & Signal Div 1789-1807 Braddock Ave Swissvale P O Pittsburgh 8 Penna	6			Barry Controls Inc Western Div 2821 N Naomi St Burbank Calif	20
United Electric Controls Co 85 School St Watertown 72 Mass	37			Barry Electronics Corp 512 Broadway New York NY	7-14
United Electro Dynamics 1200 S Marengo Ave Pasadena Calif	36			Barton Electronics Inc 1000 Farmington Ave W Hartford 7 Conn	9
United Mineral & Chemical Corp 16 Hudson St New York 13 NY	5-22			Beckman Instruments Inc Process Instruments Div 2500 Fullerton Rd Fullerton Calif	2-14-25
Universal Transistor Products Corp 36 Sylvester St Westbury LI NY	29			Bendix Aviation Corp Pioneer-Central Div 2334 Hickory Grove Rd Davenport Iowa	23-27
Uniwave Inc 109 Marine St Farmingdale NY	34			Bendix Aviation Corp/Friez Instrument Div 1400 Taylor Ave Baltimore 4 Md	16-21
U S Gauge Div American Machine & Metals Sellersville Pa	26-31-34-39-40			Bendix Aviation Corp 1104 Fisher Bldg Detroit 2 Mich	21-23
Vacuum-Electronic Eng'g Co 85 Denton Ave New Hyde Park LI NY	40			Bendix Aviation Corp Cincinnati Div 3130 Wasson Rd Cincinnati 8 Ohio	15
Vacuum Tube Products Co 2029 Short St Oceanide Calif	40			Benson-Lehner Corp 11930 W Olympic Blvd Los Angeles 64 Calif	11
Vapor Recovery Systems Co 2820 N Alameda St Compton Calif	36			Bergson Labs 247 Crooks Ave Clifton NJ	8
Varo Mfg Co 2201 Walnut St Garland Texas	7-11-19			Bircher Corp Industrial Div 4571 Valley Blvd Los Angeles 32 Calif	23
Veeco Vacuum Corp 86 Denton Ave New Hyde Park NY	40			B J Electronics Borg-Warner Corp 3500 Newport Ave Santa Ana Calif	21
Victory Eng'g Co 121 Springfield Rd Union NJ	23-26-36-37			Black Light Corp of America 5114 Walnut Grove Ave San Gabriel Calif	25
Virginia Electronics Co River Rd & H & O RR Washington 16 DC	25			Black Light Products Inc 55 W Jackson Blvd Chicago 4 Ill	25
Wabash Metal Products Co 1569 Morris St Wabash Ind	37			Blackstone Corp 1111 Allen St Jamestown NY	8-21-23-27
Wacine Inc 35 S St Clair St Dayton 2 Ohio	11-16-23-25-27-30-33-34			Blonder-Tongue Laboratories 9-25 Alling St Newark 2 NJ	22
Waldorf Instrument Co Div F C Huyek & Sons Park Ave Huntington Station NY	2-6-7-21-31- 34-37-43			Blue M Electric Co 138 & Chatham St Blue Island Ill	6
Walkirt Co 141 W Hazel St Inglewood 3 Calif	3-11			Borg-Warner Mfg Co 52 Iowa Ave Paterson 3 NJ	18
Waltham Precision Instrument Co 221 Crescent St Waltham 54 Mass	38			Bouton Radio Corp Intervale Rd Boonton NJ	19
Wang Labs Inc 37 Hurley St Cambridge 41 Mass	11			Bristol Co P O Box 1790 El Waterbury Conn	1-2-14-21
Wauch Eng'g Co 742 Burnett Ave Van Nuys Calif	11-34			Burke & James Inc 321 S Wabash Ave Chicago 4 Ill	7
Weathers Industries Div Advance Industries 86 E Gloucester Pike Barrington NJ	26			Buss-Clement-Doughton & Associates 201 B Studio Hill Chester Springs Pa	22
Weksler Instruments Corp 195 E Merrick Rd Freeport LI NY	26-37-40			Butcher Co L H 3628 E Olympic Blvd Los Angeles Calif	8-17-19-20-23
Westberg Mfg Co 144 S Coombs St Napa Calif	11				

31—INDUSTRIAL ELEC- TRONIC EQUIPMENT

Actuators	1
Analysis equipment, electro-chemical	2
Balancing equipment, dynamic	3
Dielectric heating equipment	4
Dynamometers	5
Electric furnaces	6
Electronic photoflash	7
Electroplating equipment	8
Flaw locators, metal	9
Flaw locators, non metal	10
Geophysical instruments	11
Heating elements	12
Induction heating equipment	13
Infrared equipment	14
Ionization chambers	15
Meteorological equipment	16
Ovens, infra-red drying	17
Precipitators, electrostatic	18
Thickness equipment, electronic	19
Thickness equipment, ultrasonic	20
Transducers	21
TV industrial	22
Ultrasonic cleaners	23
Ultrasonic soldering	24
Ultra-violet equipment	25
Vacuum tube aging racks	26
Vibrators, ultrasonic	27

Arme Electric Heating Co 1217 Washington St Boston 18 Mass	12		
Acoustics Associates 26 Windsor Ave Mineola NY	23-24-27		
Actuator Prods Corp Main St Box 172 W Concord Mass	1		
Adler Electronics Inc 1 Leferre Lane New Rochelle NY	22		
Admiral Corp 3800 W Cortland St Chicago 47 Ill	22		
Advanced Instruments 45 Kenneth St Newton Highlands 61 Mass	2		
Advance Industries Inc 640 Memorial Dr Cambridge 39 Mass	21		
Aeromotive Eng'g Products Ltd 5257 Queen Mary Rd Montreal Que Canada	21		
Aeronea Mfg Corp Middletown Ohio	2-14		
Aerophysics Dev Corp Sub Curtis-Wright Corp P O Box 689 Santa Barbara Calif	23-25-27		
Aerotec Corp Pemberwick Rd Greenwich Conn	17-18		
Aerotronics Associates Box 419 Concord NH	7-11		
Airborne Accessories Corp 1114 Chestnut Ave Hillside 5 NJ	1		
Air-Maze Corp 25000 Miles Rd Cleveland 28 Ohio	18		
Airtronics Inc 5522 Darsey Lane Bethesda Md	6		
Alear Instruments Inc 17 Industrial Ave Little Ferry NJ	20-23-24		
Allied Eng'g & Production Corp 2421 Blanding Ave Alameda Calif	15		
Allis Chalmers Mfg Co 934 S 70th St Milwaukee 1 Wis	4-13		
Allis Co Louis 427 E Stewart St Milwaukee 1 Wis	5		

Canadian Curtiss-Wright Ltd 1980 Sherbrooke St W Montreal Que Canada	19-20-23	Eisler Eng'g Co 750 S 13 St Newark 3 NJ	6-7-13-26	Gerst & Co Paul F 4868 N Clark St Chicago 40 Ill	21
Cardinal Instrumentation Corp 1201 Redwood Ave Los Angeles 66 Calif	21	Elicor Inc P O Box 354 McLean Va	11	Giamini & Co G M 918 E Green St Pasadena Calif	21
Cavitron Electron Oscillator Co Div Short Wave Plastic Forming 355 N Newport Blvd Newport Beach Calif	21	Electric Mechanicals Inc Rt 9 Haddam Conn	1	Girdler Process Equip Div Natl Cylinder Gas Co 334 F Broadway Louisville 1 Ky	4
Central Scientific Co of Calif 1040 Martin Ave Santa Clara Calif	2-6	Electric Boat Div General Dynamics Eastern Point Rd Groton Conn	1-8	Gisholt Machine Co 1245 E Washington Ave Madison 10 Wis	8
Central Scientific Co of Canada Ltd 146 Kendal Ave Toronto 4 Ont Canada	2-6	Electric Eye Equipment Co 1948 E Fairchild St Danville Ill	19	Glens Falls Lab Box 685 Glens Falls NY	25
Christie Electric Corp 3410 W 67 St Los Angeles 43 Calif	8	Electric Trading Co 313 Canal St New York 13 NY	13	Grano Ra-Tronics Inc 17360 Hayes Rd Grand Haven Mich	21
Cinema-Television Ltd Worsley Bridge Rd Lower Sydenham London S E 26 England	11-22	Electrical Eng'g & Mfg Corp 4612 W Jefferson Blvd Los Angeles 16 Calif	1	Gray Mfg Co 16 Arbor St Hartford 1 Conn	1
Cleveland Instrument Co 735 Carnegie Ave Cleveland 15 Ohio	19-21	Electro-Chemical Eng'g & Mfg Co 750 Broad St Emmaus Pa	8	Green Instruments Inc H J 1191 Bedford Ave Brooklyn 16 NY	16
Clevite Corp Texas Div 3732 Westimer Rd Houston 6 Texas	11-21	Electro-Mechanical Div General Riveters Inc 785 Hertel Ave Buffalo 7 NY	1	Greer Hydraulics Inc Intl Airport Jamaica 30 NY	1
Coils Electronics Co 2939 49 N 2nd St Phila 23 Penna	1	Electronic Communications Inc 1501 72 St St Petersburg Fla	1	Grieve-Hendry Co 1401 W Carroll Ave Chicago 7 Ill	6
Columbia Research Labs MacDade Blvd Bullens La Woodlyn Pa	21	Electronics Corp of America 1 Memorial Dr Cambridge 42 Mass	14	Guild Electronics Inc 388 Broadway New York 13 NY	4-18
Conoflow Corp 2100 Arch St Philadelphia 8 Pa	1	Electro Physics Co 297 Broadway New York 7 NY	2	Gulton Industries Inc 212 Durham Ave Metuchen NJ	9-10-19-20-23-24-27
Conrac Inc 1921 E Foothill Blvd Glendora Calif	22	Electro Products Labs Inc 4501 N Ravenwood Ave Chicago 40 Ill	21	Hagan Chemicals & Controls Inc 343 4 Ave Pittsburgh 20 Pa	21
Consolidated Avionics Corp 400 Shames Dr Westbury NY	3-19	Electro-Voice Inc Cecil & Carrol Sta Buchanan Mich	21	Hallmore Electronics Co 8352 Brookhurst Ave Anaheim Calif	21
Consolidated Controls Corp 4 Durant Ave Bethel Conn	1	Engelhard Industries Inc 113 Astar St Newark NJ	21-25	Hanson-Gorrill-Brian 85 Hazel St Glen Cove NY	14
Consolidated Electrodynamics Corp 300 N Sierra Madre Villa Pasadena Calif	2-21	Entron Inc 4902 Lawrence St Bladensburg Md	22	Harris Transducer Corp Box 247 Woodbury Conn	11
Consolidated Electrodynamics Corp Rochester Div 1775 Mt Read Blvd Rochester 4 NY	6-13	Epson Inc 588 Commonwealth Ave Boston 15 Mass	11	Harwood Electronics Co 466 W Superior St Chicago 10 Ill	7
Cook Co Frank R 36 S Santa Fe Dr Denver 23 Colo	1	Ercona Corp 551 Fifth Ave New York 17 NY	2-11-16	Hauman Instruments Co 70 Coolidge Hill Rd Watertown 72 Mass	7
Cook Electric Co 2700 Southport Ave Chicago 14 Ill	15	Erdo Eng'g Corp Official & Westgate Addison Ill	4-13	Henrite Products Corp 2514 S 3 St Ironton Ohio	16
Couper Co D C 1467 S Michigan Ave Chicago 5 Ill	6-8-12-14-17	Eas Instrument Co 96 S Washington Ave Bergenfield NJ	19	Hickok Electrical Instrument Co 10514 Dupont Ave Cleveland 8 Ohio	22
Corbin Corp 5419 56th Place Riverdale Md	3-16	Exact Eng'g & Mfg Inc P O Box 668 Oceanide Calif	1	Hoffman Electronics Corp 3761 S Hill St Los Angeles 7 Calif	1-14
Cornelius Co 550 39 Ave NE Minneapolis 21 Minn	14	Fairchild Controls Corp Components Div 225 Park Ave Hicksville LI NY	21	Humphrey Inc 2805 Canon St San Diego Calif	1
Cosa Corp 405 Lexington Ave New York 17 NY	3-5	Farnsworth Electronics Co Div T&T 3702 E Pontiac St Ft Wayne Ind	14	Illinois Condenser Co 1616 N Throop St Chicago 22 Ill	7
Cosser Canada Ltd 301 Windsor St Halifax Nova Scotia Canada	9-15	Fecker Inc J W 6592 Hamilton Ave Pittsburgh 6 Pa	11-14	Induction Heating Corp 181 Wythe Ave Brooklyn 11 NY	4-18
Cox & Co 115 E 23 St New York 10 NY	12	Federal Mfg & Eng'g Corp 1055 Stewart Ave Garden City NY	1	Industrial Electronics Inc 8060 Wheeler St Detroit 10 Mich	6
Crescent Eng'g & Research Co 5440 N Peck Rd Ft Monte Calif	21	Felcinthal & Sons Inc G 3500 N Kedzie Ave Chicago 18 Ill	16	Ind Test Equip Co 55 E 11th St New York 8 NY	11
Cunningham Son & Co James 33 Litchfield St Rochester 8 NY	1	Fenwal Inc Pleasant St Ashland Mass	21	Industrial TV Inc 359 Lexington Ave Clifton NJ	22
Curtiss-Wright Corp Electronics Div 631 Central Ave Carlstadt NJ	11-19	Filmohm Corp 48 W 25 St New York 10 NY	14	Insel-8-Electronics 1359 Industrial Rd San Carlos Calif	22
Dage TV Div Thompson Products W 10 St Michigan City Ind	22	Fisher Research Lab 1961 University Ave Palo Alto Calif	11	International Electronics Corp 81 Spring St New York 12 NY	28-24
Dallona Labs 5066 Santa Monica Blvd Los Angeles 29 Calif	6-12-15-21-23-25-27	Flanders Mill Inc P O Box 718 Riverhead NY	18	Intl Pump & Machine Works 81 Dorsia Ave Livingston NY	6
Dalmo Victor Co Div Textron Inc 1515 Industrial Way Belmont Calif	1-19	Fleetwood Labs Inc 300 Victory Blvd New Rochelle NY	19	International Research & Development Corp P O Box 55 Worthington Ohio	8
Darco Industries Inc Gyro Dynamics Div 2151 E Rosecrans Ave El Segundo Calif	1	Footo Brox Gear & Machine Corp 4545 S Western Blvd Chicago 9 Ill	1	Ircro Corp 16 Hudson St New York 13 NY	14
Datran Electronics 1836 Rosecrans Ave Manhattan Beach Calif	21	Forter-Teichmann Co 1212 Clark Bldg Pittsburgh 22 Pa	6	Irwin Labs 1238 S Gerhart Ave Los Angeles 22 Calif	9
Davenport Mfg Co 1713 N Ashland Ave Chicago 22 Ill	7-18	Fostoria Pressed Steel Corp N Main St Fostoria Ohio	14-17	Isotopes Specialties Co Box 688 Burbank Calif	15
Daytronic Corp 216 S Main St Dayton 2 Ohio	19-21	Foto-Video Labs Inc 25 Amity St Little Falls NJ	22	Jarrell-Ash Co 26 Farwell St Newtonville 60 Mass	11-14
Decker Aviation Corp 1361 Frankford Ave Philadelphia 26 Pa	3	Franklin Dales Co 180-184 E Mill St Akron 8 Ohio	12	Jerrold Electronics Corp 23 & Chestnut Sts Philadelphia 8 Pa	22
De Florez Co 116 E 30 St New York 16 NY	9-10	Fredericks Co Geo E Bethayres Pa	14-15-25	Johnson Aircraft Eng'g Co Geophysical Services Div P O Box 10 Morristown NJ	11
Designers for Industry 4241 Fulton Pkwy Cleveland 9 Ohio	10-20-23-27	Friez Instrument Div Bendix Aviation Corp 1400 Taylor Ave Baltimore 4 Md	16-21	Jordan Co 3235 W Hampton Ave Milwaukee 9 Wis	1
Detect-O-Ray Co 2622 N Halsted St Chicago 14 Ill	14	Garrett Corp Aircorsearch Mfg Co Div 9851 Sepulveda Blvd Los Angeles 46 Calif	1-21	Kable Eng'g Co 1307 7 St N Bergen NJ	6-13-17-26
Detroit Controls Corp Norwood Control Unit 934 Washington St Norwood Mass	21	Gates Electronics Co 2090 Barnes Ave Bronx 62 NY	8	Kahl Scientific Instrument Corp P O Box 1166 El Cajon Calif	16
Devol Research Co Brookside Dr Greenwich Conn	1-9	Geartronics Corp 52 Nashua St Woburn Mass	1	Kahn & Co 541 Windsor St Hartford 1 Conn	20-26
Diamond Power Specialty Corp P O Box 415 Lancaster Ohio	22	General Controls Co 801 Allen Ave Glendale 1 Calif	1	Kay Electric Co 14 Maple Ave Pine Brook NJ	22
Dice Co J W 16 Highwood Ave Englewood NJ	9-10-19-20	General Electric Co 10 Mansion St P O Box 278 Cossacke Ill	4-6-13	Kemlite Labs Inc 1819 W Grand Ave Chicago 22 Ill	7-25
Dietzen Co Eng'g Dept 2425 N Sheffield Ave Chicago Ill	11	General Electric Co Apparatus Sls Div 1 River Rd Schenectady 5 NY	6-6-12-13-15	Kintel 5726 Kearny Villa Rd San Diego 12 Calif	22
Dinion Coil Co Caledonia NY	22	General Electric Co Light Military Electronic Equip Dept French Rd Utic NY	14	Kiater Instrument Corp 15 Webster St N Tonawanda NY	21
Donner Scientific Co 888 Galindo St Concord Calif	21	General Electric Co/Specialty Co P O Box 812 Waynesboro Va	23	Kocour Co 4800 S St Louis Ave Chicago 32 Ill	19
Dry Screen Process Inc 1016 Madison Ave Pittsburgh 12 Pa	8	General Electric Co X-Ray Dept 4855 Electric Ave Milwaukee 1 Wis	2-9-10-19	Kuss Industries Inc Tacony & Lewis Sta Philadelphia 24 Pa	22-26
Dynac Inc 395 Page Mill Rd Palo Alto Calif	6	General Kinetics Inc 555 23 St S Arlington 8 Va	23	Laboratory Equipment Corp Lakeview & Hilltop Rd St Joseph Mich	6-13
Dynadamic Div Eaton Mfg Co 3307 14 Ave Kenosha Wis	21	General Precision Lab Inc 21 N Santa Anita Ave Pasadena 8 Calif	22	Land-Air Inc Instrument & Electronic Div 2133 Adams Ave San Leandro Calif	15
Dynapor Corp 6150 Church St Skokie Ill	21	General Precision Lab Inc 63 Bedford Rd Pleasantville NY	22	Land-Air Inc 7444 W Wilson Ave Chicago 31 Ill	15
Dynex Inc 777 Dynes Dr Pewaukee Wis	1	Geophysical Specialties Co 4206 Longfellow Ave Minneapolis 7 Minn	11-19	Landsverk Electrometer Co 650 W Garfield Ave Glendale 4 Calif	15
Eberline Instrument Div Reynolds Electrical 805 Early St Santa Fe NM	11-15	Generator Corp P O Drawer 472 Manassas Va	11	Lansing Sound Inc James B 3249 Casitas Ave Los Angeles 89 Calif	21
Edcliff Instruments 1711 S Mountain Ave Monrovia Calif	21	Geotechnical Corp 3712 Haggard Dr Dallas 9 Texas	11-16-21	La Rose & Assoc Inc W T Box F Lans Sta Troy NY	1
Eicor Inc Div Jacobs Co 617 W Walnut St Ogelsby Ill	7			Lear Inc 3171 S Bundy Dr Santa Monica Calif	1
				Lear Inc 110 Ionia Ave N W Grand Rapids 2 Mich	1

Leeds & Northrup Co 4970 Stenton Ave Philadelphia 44 Pa	2-6-14	Ohio Crankshaft Co Tocco Div 3600 Harvard Ave Cleveland 5 Ohio	13	Skialtron Electronics & TV Corp 140 Varick St New York 14 NY	22
Lepel High Frequency Labs 84-18 37 Ave Woodside 77 NY	4-13-24	Opad Electric Co 69 Murray St New York 7 NY	8-26	Small Motors Inc 2076 Elston Ave Chicago 14 Ill	1
Life Instrument Co P O Box 158 Braintree 85 Mass	21	Opto Eng'g Co 3524 W Washington Blvd Los Angeles 18 Calif	14	Solar Mfg Corp 4653 Seville Ave Los Angeles 68 Calif	21
Lindberg Eng'g Co 2450 W Hubbard St Chicago 12 Ill	13	Patterson Moos Div Universal Winding Co 90-28 Van Wyck Expressway Jamaica 18 NY	14	Solartron Electronic Group Ltd Queens Rd Thames Ditton Surrey England	9
Lindly & Co 248 Herricks Rd Mineola NY	14	Perkin-Elmer Corp Main Ave Norwalk Conn	14-22-25	Southern Instruments Computer Div Frimley Rd Camberley Surrey England	2
L & K Mfg Co 577 Elm St Arlington NJ	23	Philco Corp Tinga & C Sta Philadelphia 24 Pa	22-25	Southern Industrial Electronics Co 2831 Post Oak Rd Houston 19 Texas	21-27
Litton Industries of Calif 356 N Foothill Rd Beverly Hills Calif	14	Philco Corp Govt & Industrial Div 4700 Wissahick Ave Philadelphia 44 Pa	22	Spellman TV Co 3029 Webster Ave New York 67 NY	18-23-27
Lyon Bros 45 Zabriskie St Hackensack NJ	6-17	Phillips Mfg Co 3475 W Touhy Ave Chicago 16 Ill	12-23	Sperry Gyroscopic Co Microwave Electronics Div Great Neck	2
McDowell Electronics Inc 105 Furrest St Metuchen NJ	13	Phoenix Precision Instrument Co 3803 N 5 St Philadelphia 40 Pa	2	Sperry Products Inc Shelter Rock Rd Danbury Conn	9-10-20
McKenna Laboratories 2503 Main St Santa Monica Calif	23	Photobell Co 43 Vesey St New York 7 NY	9-10-19	Sprague Electric Co Marshall St North Adams Mass	21
Mack Electronics Div Inc 1000 S 2 St Plainfield NJ	16	Piezo Products Co Whitney St Sherborn Mass	23-27	Springfield Enterprises 138-17 Springfield Blvd Springfield Gardens 13 NY	22
Magnalux Corp 7300 W Lawrence Ave Chicago 31 Ill	9-10-19-20-25	Potter Aeronautical Corp Route 22 Union NJ	21	Stanadar Electronics Research Corp 2 E End Ave New York 21 NY	9-10-19
Magnetic Amplifiers Inc 632 Tinton Ave New York 85 NY	82	Precise Measurements Corp Rd 1 Millbrook Rd Flemington NJ	14	Statham Labs Inc 12401 W Olympic Blvd Los Angeles 64 Calif	21
Magtrol Inc 240 Seneca St Buffalo 2 NY	5	Precision Scientific Co 3737 W Corland St Chicago 47 Ill	6	Sta-Warm Electric Co 553 N. Chestnut St Ravenna Ohio	6
Majestic Int'l Corp 79 Washington St Brooklyn 1 NY	22	Production Research Corp Thorwood NY	14	Stroblite Co 75 W 45 St New York 38 NY	25
Mandrel Industrial Instruments Div Mandrel Industries Inc 5134 Glenmont Dr Houston Texas	11	Pye Canada Ltd 82 Northline Rd Toronto 16 Ontario Canada	2-4-13-14-22-27	Syntron Co 263 Lexington Ave Homer City Pa	12
Manning Maxwell & Moore Inc Industrial Controls Div Shelter Rock Lane Danbury Conn	1-21	Q O S Corp Bronx Blvd at 216 St New York 67 NY	14	Tarzian Inc Sarkes 415 N College Ave Bloomington Ind	22
Marion Electrical Instrument Co Greiner Field Manchester NH	13	Radex Corp 2076 Elston Ave Chicago 14 Ill	18	Tatnell Measuring Systems Co P O Box 245 Phenixville Pa	21
Massa Laboratories Inc 5 Futtler Rd Hingham Mass	21-23	Radio Corp of America Commercial Electronic Products Front & Cooper Sts Camden NJ	22	Taylor Instruments Companies 95 Ames St Rochester 1 NY	21
Mathew Labs 146 Riverdale Ave Yonkers NY	8	Radio Frequency Co 44 Park St Medford Mass	4-13	Technic Inc 39 Snow St Providence 3 RI	8
Mauter Inc J A 37-01 31 St Long Island City 1 NY	14-16	Radio Receptor Co/Div GIC 240 Wythe Ave Brooklyn 11 NY	4	Technical Oil Tool Corp 1057 N La Brea Los Angeles 38 Calif	11
Measurement Eng'g Ltd 232 John St Arnprior Ontario Can	10-11-19-20-26	Rahm Instruments Inc 237 Lafayette St New York 12 NY	21	Telechrome Mfg Corp 28 Ransick Dr Amityville LI NY	22
Menio Research Lab 538 Phelan Ave San Jose Calif	9-10-25	Ram Meter Inc 1100 Hilton Rd Ferndale 20 Mich	21	Telephonica Corp Park Ave Huntington LI NY	11-21
Metal Products Inc Div Mid West Conveyor Co Inc Fairfax Industries Dist Kansas City 15 Kan	8	Rapid Electroplating Process 1414 S Wabash Ave Chicago 5 Ill	8	Telex 1633 Eustis St St Paul 1 Minn	21
Micro Balancing Inc 191 Herricks Blvd Garden City NY	3	Ravtheon Mfg Co 100 River St Waltham 54 Mass	18-21	Temperature Eng'g Corp U S Hwy 130 Riverton NJ	6-12-13-14-16-17
Milli-Switch Corp 1742 Berkeley St Santa Monica Calif	1	Rea Co J B 1723 Cloverfield Blvd Santa Monica Calif	14-21	Texas Instruments Inc 6000 Lemmon Ave Dallas 9 Texas	11
Minatron Corp Belle Mead 9 NJ	21	Reeve Electronics Inc 609 W Lake St Chicago 6 Ill	4-13	Thermo Electric Mfg Co 6112 Huff St Dubuque Iowa	8
Minn-Honeywell Heiland Div 5200 E Evans Ave Denver 22 Colo	7	Republic Aviation Corp Farmingdale L I New York	2	Topper Mfg Co Inc 147-12 Liberty Ave Jamaica 35 NY	23-24
Minn-Honeywell Boston Div 1400 Soldiers Field Rd Boston 35 Mass	21	Reuel Eng'g Corp 330 S Fair Oaks Ave Pasadena Calif	4	Tracerlab Inc 1601 Trapelo Rd Waltham 54 Mass	9-10-15-19
Minn-Honeywell Regulator Co Aeronautical Div 2600 Ridgway Ave Minneapolis 19 Minn	21	Research Industrial Lab of Electronics Roslyn Pa	19-26	Trans-Int 186 Granite St Manchester NH	21
Minn-Honeywell Regulator Co Commercial & Residential Divs 2753 4 Ave S Minneapolis 8 Minn	1	Research Specialties Co 2005 Hopkins St Berkeley 7 Calif	2	Trans-Inc 1000 Island Ave McKees Rocks Pa	18
Miskella Infra-Red Co E 78 & Grand Ave Cleveland 4 Ohio	6-12-14-17	Resitron Labs Inc 2908 Nebraska Ave Santa Monica Calif	14-15	Tullamore Electronics Lab 6055 S Ashland Ave Chicago 36 Ill	19
Modern Laboratory Equip Co 1811 1 Ave New York 28 NY	12-17	Richardson Labs Kenneth 254 Vincent Ave Lynbrook NY	4	TV Specialty Co 350 W 31 St New York 1 NY	22
Monsagham Co J J 500 Alcott St Denver 4 Colo	11	Robinson Corp 21300 W 8 Mile Rd Detroit 19 Mich	13	TV Utilities Corp 112-33 Colonial Ave Corona 68 NY	22
Muore Associates Inc 4025 Spring St Redwood City Calif	16	Rosemount Eng'g Co 8424 Lyndale Ave S Minneapolis 20 Minn	21	UAC Electronics Div Universal Transistor Prods Corp 511 Bond St Westbury LI NY	11-15
Moore Corp John B P O Box 3 Dept El Peerless Bldg Nutley 10 NJ	23	Safeway Heat Elements Inc 680 Newfield St Middletown Conn	12	Ultra-Violet Products Inc 5114 Walnut Grove Ave San Gabriel Calif	9-25
Moran Instrument Corp 170 E Orange Grove Ave Pasadena 1 Calif	11	Sanborn Co 175 Wyman St Waltham 54 Mass	21	United Aircraft Products Inc 1116 Bolander Ave Dayton 8 Ohio	12-13
Muirhead Instruments Inc 677 5 Ave New York 22 NY	16	Sanyamo Electric Co 1207 N 11th St Springfield Ill	21	United Electrodynamics 1200 S Marengo Ave Pasadena Calif	11
Mytron Mfg Co 4622 Brazil St Los Angeles 39 Calif	4	Schaevitz Eng'g 11 S Rte 130 & Schaevitz Blvd Camden NJ	5-21	Unit Process Assemblies Inc 61 E 4 St New York 8 NY	19
Nevada Air Products Co P O Box 2472 Reno Nev	14-27	Scientific Electric 105 Monroe St Garfield NJ	18	Universal Transistor Products Corp 36 Sylvester St Westbury LI NY	11-15
New Rochelle Tool Corp 320 Main St New Rochelle NY	4-13	Scientific Eng'g Lab 2436 Sacramento St Berkeley Calif	6-8-13-15	U S Dynamics Corp 1250 Columbus Ave Boston 20 Mass	6-13
Nichols & Clark Inc 321 Newburyport Tpk Danvers Mass	13	Scientific Glass Apparatus Co 100 Lakewood Terrace Bloomfield NJ	6-14	Valpey Crystal Corp 1244 Highland St Holliston Mass	21
Norco Products Mfg Co 392 Blecker St New York 14 NY	25	Sel Rez Corp 75 River Rd Nutley 10 NJ	2-8	Vectrol Eng'g Inc P O Box 1089 Stamford Conn	18
North American Instruments Inc 2420 N Lake St Altadena Calif	21	Semenon 262 E 16 St Paterson 4 NJ	8	Victoreen Instrument Co 5806 Hough Ave Cleveland 3 Ohio	11
NRC Equipment Corp 160 Charlemont St Newton Highlands 61 Mass	6	Seneca Falls Machine Co 314 Fall St Seneca Falls NY	1-19	Victory Eng'g Co 121 Springfield Rd Union NJ	11-16
Nuclear-Chicago Corp 223 W Erie St Chicago 10 Ill	15	Servo Corp of America 2020 Jericho Turnpike New Hyde Park NY	14	Virginia Electronics Co River Rd & B & O RR Washington 16 DC	11-16
Nuclear Corp of America 400 Park Ave New York 22 NY	18-19	Servomechanisms Inc 12500 Aviation Blvd Hawthorne Calif	14-21	Voron & Co George 835 N 19 St Philadelphia 30 Pa	22
Nuclear Systems Div Budd Co 2450 Hunting Park Ave Philadelphia 32 Pa	19	Servonic Instruments Inc 640 Terminal Way Costa Mesa Calif	21	Vulcan Electric Co 88 Holten St Danvers Mass	12
Nucleonic Corp of America 196 Degraw St Brooklyn 81 NY	15	Servo-Tek Products Co 1086 Goffe Rd Hawthorne NJ	1	Waldorf Instrument Co Div F C Huyck & Sons Park Ave Huntington Station NY	1-19
Nucor Research Inc 2421 Walcott Ferndale 20 Mich	11-15-19	Setchell-Carlson Inc New Brighton St Paul 12 Minn	22	Wall Mfg Co P Erie St Grove City Pa	12
Oakite Products Inc 79 Rector St New York 8 NY	23	Shannon Luminous Materials Co 7356 Santa Monica Blvd Hollywood 44 Calif	25	Wallow Electric Mfg Co 1376 Ferguson Ave St Louis 14 Mo	12
		Sheffield Corp Box 893 Dayton 1 Ohio	19-23-24	Wayne-Kerr Inc P O Box 401 Phila 5 Pa	13
		Sherman Industrial Electronics Div Eng Design Inc 108 N Gill St State College Pa	4-13	Westberg Mfg Co 144 S Coombs St Napa Calif	15
				Westbury Electronics Inc 300 Shames Dr Westbury NY	22
				Western Gear Corp Electro Products Div 132 W Colorado St Pasadena 1 Calif	1

Westinghouse Electric Corp Industrial Electronic Dept 2519 Wilkens Ave Baltimore Md	13
Westinghouse Electric Corp P O Box 468 Pittsburgh 30 Pa	1-6-8-12-13-18
Weymouth Instrument Co 1440 Commercial St E Weymouth 89 Mass	13
Winneko Eng'g Co 256 Halstead St Pasadena Calif	21
Wiesand Co Edwin L 7500 Thomas Blvd Pittsburgh 8 Pa	12
Woodwelding Inc 355 N Newport Blvd Newport Beach Calif	4
Wright Equipment Co 128 N Main St Milltown NJ	26
Young Brothers Co 1831 Columbus Rd Cleveland 13 Ohio	4
Ziomar Inc 55 Senk Cliff Ave Glen Cove NY	22

32—INSULATION MATERI- ALS & COMPOUNDS

Asbestos	1
Asphalt	2
Ceramic	3
Coatings, cambric, varnished	4
Compounds, encapsulation	5
Compounds, impregnating	6
Compounds, mica	7
Compounds, phenolic molding	8
Cork	9
Dielectrics	10
Enamel	11
Fabric	12
Fabric, varnished	13
Fibre	14
Fibre, vulcanized	15
Glass	16
Glass fibre	17
Glass, mica-woven or laminated	18
Grain, aluminum	19
Linens, can	20
Mica	21
Mica, glass bonded	22
Oxide, aluminum	24
Paper	25
Phenolics	26
Plastics	27
Plastics, laminated	28
Porcelain	29
Resin, synthetic	30
Rubber	31
Silicon	32
Steatite	33
Tape, coil	34
Tape, electrical	35

Accurate Mfg Co 44 Heworth Pl Garfield NJ	35
Ace Plastic Co 91-30 Van Wyck Expwy Jamaica 33 NY	26-27-28
Acheson Colloids Co 1951 Washington Ave Port Huron Mich	6-7
Acme Mfg & Gasket Co 738 N 41 St Philadelphia 4 Pa	9-14-15-27-31
Acme Wire Co 1255 Dixwell Ave New Haven 14 Conn	4-5-6-11-13-30-34
Aerophysical Dev Corp Sub Curtis-Wright Corp P O Box 689 Santa Barbara Calif	27
Aluminum Co of America 1501 Alcoa Bldg Pittsburgh 19 Pa	5
American Insulator Corp New Freedom Pa	27
American Lava Corp Subs: Minn Mining & Mfg Cherokee Blvd & Mfra Rd Chattanooga 6 Tenn	3-10-33
American Mica Insulation Co 235 Parker Ave Manasquan NJ	21-22-28
American Mica Radio Corp 235 Parker Ave Manasquan NJ	7-21-22
American Products Mfg Co 8127 Oleander St New Orleans 18 La	27
American Super-Temperatures Wires Inc West Canal St Winoski Vt	35
American Window Glass Co Farmers Bank Bldg Pittsburgh 22 Pa	18
Amphenol Electronics Corp 1830 S 54 Ave Chicago 50 Ill	5
Amp Inc Captron Div 155 Park Ave Elizabethtown Pa	10
Aries Labs Inc 45-33 Davis St Long Island City 1 NY	5-6-10-27-28-30
Armstrong Cork Co W Liberty St Lancaster Pa	9-28

Arvey Corp 300 Communipaw Ave Jersey City 4 NJ	28
Asheville-Schoonmaker Mica Co 900 Jefferson Ave Newport News Va	7-21
Associated Commodity Corp 233 Broadway New York 7 NY	21
Atlas E-E Corp 47 Prospect St Woburn Mass	10
Auburn Mfg Co Pease Ave & Stack St Middletown Conn	1-8-10-13-14-15-17- 25-26-27-28-31-32
Bach & Co Simon 636 Greenwich St New York 14 NY	16
Baer Co N S 1-11 Montgomery St Hillside 5 NJ	14-15
Bakelite Co Div Union Carbide & Carbon Corp 30 E 42 St New York 17 NY	11-26-27
Baker Bros Post & Harleau Sts Toledo 10 Ohio	27
Barrett Div Allied Chemical & Dye Corp 40 Rector St New York 6 NY	1-2-5-6-8-10-11- 12-14-26-27-30
Baruski Jr Ernest F 290 Riverside Dr New York 25 NY	5-27-30
B & C Insulation Products Inc 490 Lincoln Hwy Iselin NJ	13-17
Behr-Manning Co 3058 Howe St Troy NY	36
Bentley Harria Mfg Co Conshohocken 30 Pa	17
Besteraft Products Co 626 Broadway New York 12 NY	1-10-12-13-14- 15-17-25-26-27-28
Biggs Co Carl H 2255 Barry Ave Los Angeles 64 Calif	5-6-27-28
Biolabs Inc 17 W 60 St New York 23 NY	1-2-3-4-5-6-7-8-10- 11-21-24-26-27-28-30-32
Biwax Corp 3445 Howard St Skokie Ill	2-5-6-27
Bolta Products Div General Tire & Rubber Co 70 Garden St Lawrence Mass	27-28
Bonny Mfg Corp 840 Auburn St Auburndale Mass	27-35
Borden Co Chemical Div Resinite Dept P O Box 1589 Santa Barbara Calif	5-27
Borden Co Chemical Div 350 Madison Ave New York 17 NY	80-31
Borthig Co George C Hwy 20 E Rutherford NJ	6-11
Boston Woven Hose & Rubber Co P O Box 1071 Boston 8 Mass	35
Bradley Associates 1650 N Damen Ave Chicago 47 Ill	27
Brady Co W H 727 W Glendale Ave Milwaukee 9 Wis	35
Bram Metallurgical-Chemical Div 820 65 Ave Philadelphia 26 Pa	7-21-32-33
Brand & Co William 41 North St Willimantic Conn	4-13-17-18-21-22-25-35
Brand Dielectrics Inc 57 North St Willimantic Conn	10-13-16-18-21-22-25-35
Brihart Plastics Corp Old Country Rd Mineola NY	27
Brooklyn Paint & Varnish Co 50 Jay St Brooklyn 1 NY	4
Brush Beryllium Co 4301 Perkins Ave Cleveland 3 Ohio	21
Carbide & Carbon Chemicals Co Div Union Carbide & Carbon 30 E 42 St New York 17 NY	6
Carborundum Co Glastar Div Hyde Park Blvd Niagara Falls NY	3-29-33
Carborundum Co Latrobe Plant Refractories Div Latrobe Pa	3-24-33
Cavitron Electron Oscillator Co Div Short Wave Plastic Forming 355 N Newport Blvd Newport Beach Calif	10
Ceramtronics Inc 364 Highland Ave Passaic NJ	3
Chase & Sons 26 Spruce St N Quincy Mass	1-24-31-35
Chemical Development Corp Endicott St Danvers Mass	5-6-27-30
Chemical Process Co 1901 Spring St Redwood City Calif	27
Chemo-Textiles Inc P O Box 169 W Warwick RI	27-28-35
Chicago Gasket Co 1271 W North Ave Chicago 22 Ill	1-27-35
Ciba Co Plastics Div Kimberton Pa	5-30
City Chemical Corp 132 W 22 St New York 11 NY	24
Cloves Ceramic Corp 3711 Calhoun Ave Chattanooga 7 Tenn	3-33
Colonial Insulator Co 945 Grant St Akron 11 Ohio	3-29
Columbia Products Co 6625 Shakespeare Rd Columbia SC	27-28
Columbia Tane Mills Bank St E Greenville Pa	12-16-17-34-35
Comar Products Box 776 Butler NJ	31
Communications Products Co Marlboro NJ	6
Conn Hard Rubber Co P O Box 1911 New Haven 9 Conn	31-35
Consolidated Molded Products Corp 309 Cherry St Scranton 2 Penna	8-26-27

Continental-Diamond Fibre Corp Newark Dela	14-15-17-21-22-26-28
Controlled Atmosphere Enclosures Corp 230-11 341 Ave Springfield Gardens LI NY	27
Coors Porcelain Co 600 9th St Golden Colo	3-10-21-29
Corning Glass Works Corning NY	3-16
Cosser Canada Ltd 801 Windoor St Halifax Nova Scotia Canada	28
Crane Packing Co 6400 Oakton St Morton Grove Ill	27
Crystals-Westlake Corp W Lenni Rd Lenni Mills Pa	27-28
Cudnar & O'Connor Co 4055 W Kinzie St Chicago 24 Ill	5
Dale Hosen Co 2928 Nebraska Ave Santa Monica Calif	29
Dalmo Victor Co Div Textron Inc 1515 Industrial Way Belmont Calif	28
Dearborn Glass Co 6600 S Harlem Ave Bedford Park Argo Ill	18
Decatur Electronic Industries Corp 203 Orinoco Dr Brightwaters LI NY	26-31
Dennison Mfg Co 300 Howard St Framingham Mass	1-23-34-35
Diamonite Products Mfg Co 420 Cleveland Ave N W Canton Ohio	3-21
Dielect Inc Cedar & Gross Sts Forda NJ	27
Dielectric Materials Co 5315-17 N Ravenswood Ave Chicago 40 Ill	10-27
Dietzen Co Eugene 2425 N Sheffield Ave Chicago Ill	27
Dilectro Corp Allen Blvd & Grand Ave Farmingdale LI NY	10-27
Dixon Corp Burnside St Bristol RI	10-27-35
Dobackman Co 8801 Monroe St Cleveland Ohio	28-31-35
Dow Corning Corp Box 592 Midland Mich	6-19-30-31
Du-Cor Ceramics Co Box 278 Saxonburg Pa	3-29-31
DuPont De Nemours & Co E I Wilmington 98 Del	5-6-11-12-27-30-32
Durez Plastics Div Hooker Electrochemical Co 1926 Wallik Rd Niagara Falls NY	8-26-27-30
Electrical Refractories Co E Clark St E Palestine Ohio	3-29
Electrical Specialty Co 158 11 St San Francisco 3 Calif	1-3-4-5-6-7-8-9-11- 12-13-14-15-17-18-21-25-26- 27-28-30-32-34-35
Electrochemical Eng'g & Mfg Co 750 Broad St Emmaus Pa	2-5-27
Electronic Mechanics Inc 101 Clifton Blvd Clifton NJ	3-7-10-18-19-21-22-24
Electronic Plastics Corp 875 Harbey St Brooklyn 7 NY	5-6-26-27
Electro-Technical Products Div Sun Chemical Corp 113 E Centre St Nutley NJ	4-6-13-20-31-35
Ellanor Chemical Co 2308 Oakton Evanston Ill	39
Emeloid Co 1238 Central Ave Hillside 5 NJ	28
Emerson & Cuming Inc 869 Washington St Canton 1 Mass	3-4-5-6-10-11-27-28-30-32
Emerson Plastics Corp Seabury Ave & Butler Pl Bronx 61 NY	14-15-17-26-27-28
Enthor Corp Fellowship Rd Route 73 Maple Shade NJ	27-28-35
Enchard Industries Inc 113 Astor St Newark NJ	3
Epoxy Products Div Jos Waldman & Sons 133 Coit St Irvington NJ	27
Eric Resistor Corp 644 W 12 St Erie 6 Pa	3
Farley & Loetscher Mfg Co Plastics Div 7 & White Sts Dubuque Iowa	27-28
Farnam Mfg Co 2000 Sweeten Creek Rd Asheville NC	21-28
Felt Products Mfg Co 7450 N McCormick Blvd Skokie Ill	1
Fibre Glass Evercoat Co 7220 Vine St Cleveland 16 Ohio	5-15
Fisher & Crome 109 N Camac St Phila 7 Pa	24-27-28
Flexrock Co 3609 Filbert St Philadelphia 1 Pa	27
Fluorocarbon Products Inc Div U S Gasket Co 602 N 10 St Camden 1 NJ	10-27-28
Formica Corp 3614 Spring Grove Ave Cincinnati 11 Ohio	8-28
Fredericks Co Geo E Iethures Pa	16
Freed Transformer Co 1735 Weirfield Brooklyn 27 NY	3-30
Fronchtown Porcelain Co Fronchtown NJ	3-20-33
Furane Plastics Inc 4516 Brazil St Los Angeles 39 Calif	4-5-6-7-27-28-30
Gardner Packing Co 402 Main St Palmyra NY	27-28-31

General Cement Mfg Co Div Texton Inc 400 Wyman St Rockford Ill	4-6-13-14	Mackay Inc A D 158 Broadway New York 38 NY	19-24	Norton Co 1 New Bond St Worcester 6 Mass	3-19-24
General Electric Co Silicone Products Dept Waterford NY	5-8-10-30-31	Maigne Co O J 323 Pearl St New York 36 NY	31-35	Nukem Products Corp 111 Colgate Ave Buffalo 20 NY	27-28-30
General Electric Co Cohasset Ohio	24	Manning Paper Co John A P O Drawer 328 Troy NY	25	Nureco Inc 1100 Pontiac Ave Cranston 10 RI	27
General Plastics Corp 165 3 Ave Paterson 4 NJ	12-27-28-35	Marblette Corp 37-31 30 St	5-6-7-8-10- 26-27-28-30	Ohio-Apex Div Food Mch'y & Chemical Corp Nitro W Va	5-6-27
George Co P D 5200 N 2nd St St Louis 7 Mo	4-6-11	Marlon Chemical Div Borg-Warner Corp 7185 Chicago Ave Gary Ind	27-30	Okonite Co 220 Passaic St Passaic NJ	35
Glastic Corp 4321 Glenridge Rd Cleveland 21 Ohio	28	Maryland Lava Co Box 205 Belair Md	3-33	Olympic Plastics Co 3471 S Lacienea Blvd Los Angeles 16 Calif	28
Goodrich Chemical Co B F 3135 Euclid Ave Cleveland 15 Ohio	27-30	Mayfair Molded Products Corp 3700 N Rose St Schiller Park Ill	8-27-31	Organic Development Corp 8841 Orangewood Ave Anaheim Calif	5-6-27
Goodrich Industrial Products Co B F 500 S Main St Akron 18 Ohio	31	Mesa Plastics Co 11751 Mississippi Ave Los Angeles 25 Calif	27	Orowe Chemical Co 200 Bush St San Francisco Calif	6-10
Goodrich Sponge Products B F Div B F Goodrich Co Canal St Shelton Conn	27-31	Metal & Thermit Corp Kahway NJ	26-27	Pacific Universal Products Corp 168 Viata Ave Pasadena 8 Calif	16
Guastavino Co R 680 Main St Woburn Mass	29-33	Metaplast Corp Davisville Rd Hatboro Pa	27	Parker Metal Goods Co 85 Prescott St Worcester 5 Mass	27
Gulton Industries Inc 212 Durham Ave Metuchen N J	3	Mica Corp 4031 Elenda St Culver City Calif	28	Penn Fibre & Specialty Co 2020 E Westmoreland St Philadelphia 34 Pa	14-15-25-26-27-28
Halogen Insulator & Seal Corp 10121 Franklin Ave Franklin Park Ill	27-35	Mica Fabricating Co 58 Central Ave Rochelle Park NJ	1-13-14-15-16- 18-21-22-26	Penna Fluorocarbon Co Inc 1115 N 38 St Phila 4 Pa	10-20-27
Hardman Co H V 571 Cortlandt St Belleville 9 NJ	5-6-31	Mica Insulator Co 787 Broadway Schenectady 1 NY	13-18-21-28-34-35	Perfection Mfg Co 1322 N Elaton Ave Chicago 22 Ill	21
Hartford City Paper Co South Spring Ave Hartford City Ind	25	Micacraft Products Inc 701 McCarter Hwy Newark 5 NJ	21	Permacel-Le Pages Inc 10 S Hwy 1 New Brunswick NJ	5-6-27-30-32-35
Havey Industries Inc 900 Greenbank Rd Wilmington 8 Del	1-8-17-21-22-26-27-28-30	Micarta Fabricators Inc 5324 N Ravenwood Ave Chicago 40 Ill	15-26-25	Permonite Mfg Co 444 Lake Shore Dr Chicago 11 Ill	14-15-18-26-28
Hays Mfg Co 588 W 14th St Erie Pa	8-10-27-28	Millipore Filter Corp 85 Pleasant St Watertown 72 Mass	14-27	Phila Scientific Glass Co Box 48C Palletown Rd Quakertown Pa	16
Hayward Scientific Glass Corp 215 N Magnolia Ave Whittier 1 Calif	16	Minnesota Mining & Mfg Co 900 Bush Ave St Paul 6 Minn	3-4-5-6-7-10-13-18-21- 27-28-30-33-35	Phoenix Precision Instrument Co 2808 N 5th St Philadelphia 40 Pa	16
Hil-Tect Chemical Corp 722-64 St Brooklyn 20 NY	5-6	Minn Mining & Mfg Co Irvington Div 6 Argyle Terr Irvington NJ	4-5-11-13-17- 25-27-28-35	Photo Chemical Prod of Calif 1715 Berkeley St Santa Monica Calif	30
Hommel Co O 200 1 Ave Pittsburgh 22 Pa	11	Minor Rubber Co Ackerman St Bloomfield NJ	31-32	Pittsburgh Plate Glass Co 1 Gateway Center Pittsburgh 22 Pa	2-4-6-11-16-17-18-27
Houghton Laboratories Inc 422 Houghton Ave Olean NY	5-6-27-30	Mitchell Rand Mfg Corp 51 Murray St New York 7 NY	1-4-5-6-13-14-15-17-18- 22-25-26-27-28-34-35	Plastek Inc P O Box 551 Poteau Okla	27-28
Huss-Liberty Mfg Co Penbody Industrial Center Penbody Mass	4-13-15-18-21-25-34-35	Mitronics Inc 1290 Central Ave Hillside NJ	3-33	Plastic Accessories Inc 91 Mercer St New York 12 NY	26-27-28
Illumitronic Eng'g Co 480 E Taylor Ave Sunvale Calif	26-27-28	Modern Wire Co 39-80 Review Ave Long Island City 1 NY	29	Polymer Corp 2120 Fairmont Ave Reading Pa	10-27-30-35
Industrial Accessories Inc Line Rd Matswan NJ	31-35	Molded Products Div Admiral Corp Washington & Creamery Rd W Chicago Ill	26-27	Polymer Industries Inc Springdale Conn	3
Insulating Fabricators Inc 150 Union Ave E Rutherford NJ	15-25-26-27-28	Molding Corp of America 58 Weybosset St Providence 3 RI	27	Ponn Machine Cutting Co Tilston St Everett 49 Mass	31
Insulating Fabricators of N E Inc 69 Grove St Watertown 72 Mass	15-26-28	Montaine Corp 2446 S Prairie Ave Chicago 16 Ill	3	Precision Metal Products Co 41 Elm St Stoneham Mass	26-24
Insulation Mfg Corp 565 W Washington Blvd Chicago 39 Ill	15-16-17-18-21-32- 25-26-27-28-30-31-32-34-35	Moore Co Howard J 266 Williams St New York NY	1-4-9-10-12-13-14-15-16- 17-18-20-21-22-25-26- 27-28-31-32	Pres Industrial Equipment Ltd Box 302 Putt Corners Rd N New Paltz NY	35
Insulation & Wire Inc 1534 Swinney Ave Ft Wayne Ind	4-11-13	Morganite Inc 33-02 48 Ave Long Island City 1 NY	3-24	Printloid Corp 93 Mercer St New York 12 NY	26-27-28
Integrated Mica Corp 202 Franklin Pl Woodmere 11 NY	21	Muesley Co P L 409 N Fair Oaks Ave Pasadena Calif	25	Ram Chemicals Inc 210 E Olive St Gardena Calif	5-6-11-27
Isobrom Resin Corp 221 Oak St Providence 9 RI	5-6-10-27-30	Mosinee Paper Mills Co Mosinee Wisc	25	Raybestos-Manhattan Inc 61 Willett St Passaic NJ	1-27-28-31-35
Iscyanate Products Inc 900 Wilmington Rd New Castle Del	30	Multiplastics 770 W Factory Rd Addison Ill	27	Raybestos-Manhattan Inc Plastic Products Div Manheim Pa	1-5-8-28-31-32
Isolanite Mfg Corp Warren Ave Stirling N J	3-33	Mycalex Corp of America 125 Clifton Blvd Clifton NJ	3-7-21-22	Rembar Co 147 Main St Dobbs Ferry NY	11
Joelin Mfg Co Lufberry Ave Wallingford Conn	8-10-26-27-30-34-35	National Ceramic Co 500 Southard St Trenton 2 NJ	3-29-33	Republic Rubber Div Lee Rubber & Tire Corp 140 Albert St Youngstown 1 Ohio	31
Judee Plastics Co 213 Shepherd Ave Brooklyn 8 NY	27	National Electric Coil Co 800 King Ave Columbus 16 Ohio	10-13-18	Resistoflex Corp Woodland Rd Rowland NJ	27
Johns-Manville Dutch Brand Div 7800 Woodlawn Ave Chicago 19 Ill	35	National Eng'g Products Inc 435 Washington Hldg Washington 5 DC	5-27	Rex Corp Hayward Rd W Acton Mass	27-28
Johns-Manville 22 E 40 St New York 16 NY	1-2-6-12-14-25-35	National Gasket & Washer Mfg Co 124 E 25 St New York 18 NY	9-13-14-16-20-25- 26-27-28-31-32	Reynolds Metals Co P O Box 2346-ZF Richmond 18 Va	24-27
Keasbey & Mattison Co Butler Ave Amherst Pa	1-35	National Radiax Inc 475 Washington St Newark 2 NJ	27	Richardson Co 27 Ave & Lake St Melrose Park Ill	26-27-28
Keller Products Inc 41 Union St Manchester NH	27-28	National Tel-Tronics Corp 52 St Casimir Ave Yonkers NY	27-29	Roberts Toledo Rubber Co 4143 Monroe St Toledo 6 Ohio	31
Kendall Co Polyken Sales Div 309 W Jackson Blvd Chicago 20 Ill	17-27-32-34-35	National-U S Radiator Corp 342 Madison Ave New York NY	32	Robins Industries Corp 214-26 41 Ave Bayside 61 NY	17
Kirchberger & Co M 83-91 W Forest Ave Englewood NJ	3-33	National Vulcanized Fibre Co P O Box 311 Wilmington 99 Dela	14-15-26-27-28	Rogers Corp Rogers Conn	3-14-25-26-27-31
Laboratory Equipment Corp Lakeview & Hilltop Rd St Joseph Mich	3	National Vulcanized Fibre Co Yorklyn Dela	14-15-17-18-25-26	Romar Plastics Inc 1311 E Main St St Charles Ill	36-37
Laminated Sheet Products Corp 449 Neponset St Norwood Mass	15-17-26-27-28	Natvar Corp 211 Randolph Ave Woodbridge NJ	4-13-27-32-35	Rosco Labs 23 Moore St Brooklyn 6 NY	27
La Moree C D 243 Birkdale St Los Angeles 31 Calif	4-5-6-7-10-11-13-16-17-18- 20-21-25-27-28-34-35	New England Laminates Co 481 Canal St Stamford Conn	12-18-26-27-28	Rubbercraft Corp of Calif 1800 W 220 St Torrance Calif	31-32
Lapp Insulator Co Radio Specialties Div 318 Gilbert St Roy NY	3-10-29-33	New England Mica Co 68 Woerd Ave Waltham 54 Mass	18-21-22	Rue Products 1628 Venice Blvd Venice Calif	5-27-28-30-31
Larson Electronic Glass P O Box 371 2426 El Camino Real Redwood City Calif	16	New England Tape Co 30 Lower St Hudson Mass	5-6-27-30	Saftee Glass Co 4717 Stenton Ave Philadelphia 44 Pa	18-22-28
Lestershire Spool Div National Vulcanized Fibre Co 140 Baldwin St Johnson City NY	15-28-28	New Jersey Wood Finishing Co Amboy Ave Woodbridge NJ	4-13-35	Saratoga Plastics Inc N Walspole NH	27
L O F Glass Fibers Co 1810 Madison Ave Toledo 1 Ohio	17	Niemand Bros 37-05 35 Ave Long Island City 1 NY	25	St Elol Corp P O Box 507 Newtown Br Cincinnati 44 Ohio	10
Long Inc Thomas J 215 Stonehenge Lane Carle Place LI NY	15-26	Nopco Chemical Co Harrison NJ	27	Sauerisen Cements Co 1045 N Canal St Pittsburgh 15 Pa	5-6-30
Louthan Mfg Co Box 781 E Liverpool Ohio	3	Norrlich Plastics Corp 107 W 18th St New York 16 NY	14-15-26-27-28-31	Saxonburg Ceramics Saxonburg Pa	3
Lubron Rubber Co 51 Kelvin St Everett 49 Mass	31-32	Northern Plastics Corp 2nd Market St Lacrosse Wisc	26	Schenectady Varnish Canada Ltd 409 Comstock Rd Scarborough Ont Canada	5-6-26-27-30
Luminous B Bin Inc 166 W Washington St Chicago 2 Ill	27			Scherma Mfg Co M A Congress St & 9 Ave Schenectady 3 NY	4-5-6-11-30
Luzerne Rubber Co Muirhead Ave Trenton NJ	27-31			Schjeldahl Co G T Northfield Minn	27

Schwietzer Inc Peter J Lee Mass	26
Schwietzer Inc Peter J 261 Madison Ave New York NY	25
Seamless Rubber Co 253 Hallock Ave New Haven 3 Conn	4-35
Shamian & Co W S 11617 W Jefferson Blvd Culver City Calif	27-35
Shewin-Williams Co 101 Prospect Ave Cleveland 1 Ohio	11-30
Silicone Insulation Inc Seabury Ave & Butler Pl Bronx 61 NY	17-27-28
Sillicocks-Miller Co 10 W Parker Ave Maplewood NJ	27-28
Smooth-On Mfg Co 572 Communipaw Ave Jersey City 4 NJ	27-30
Solar Mfg Corp 4553 Seville Ave Los Angeles 58 Calif	3-10
Southern Plastics Co 408 Pendleton SC	26-27
Sparta Mfg Co Dover Ohio	27-34-35
Spaulding Fibre Co Inc 1325 San Julian St Los Angeles 15 Calif	14-15-20-25-26-27-28-30
Spaulding Fibre Co 310 Wheeler St Tonawanda NY	14-15-26-28
Specialties Inc 261 Madison Ave New York 16 NY	26-28
Spruce Pine Mica Co P O Box 456 Spruce Pine N Carolina	10-21
Statham Labs Inc 12401 W Olympic Blvd Los Angeles 44 Calif	27
Sterling Varnish Co Hayville Borough Sewickley Pa	2-5-6-10
Stevens Paper Mills Rainbow Rd Windsor Conn	10-25-34
Stevens Products Inc 86 Main St E Orange NJ	12-17-28-32
Stevenson Bros 110 Race St Philadelphia 6 Pa	8
Steward Mfg Co D M Chattanooga Tenn	3-10-24-33
Stokes Molded Products Div Electric Storage Battery Co 241 Taylor St Trenton 1 NJ	27-31
Stupakoff Div Carborundum Co Latrobe Pa	3-10-33
Sun Chemical Corp 10-10 44 Ave Long Island City 1 NY	25
Superior Steatite & Ceramic Corp 83 91 W Forest St Englewood NJ	3-33
Swedlow Plastics Co 6985 Bandini Blvd Los Angeles 22 Calif	17-27-28
Sylvania Electric Products Inc Parts Div 12 2nd Ave Warren Pa	21
Synthane Corp Montgomery Ave Oaks Pa	18-26-28
Taylor Fibre Co Box 471 Norristown Pa	10-14-15-26-27-28
Technical Ply-Woods Sales 6756 Crandon Ave Chicago 49 Ill	14-15
Technical Tape Corp 240 North Ave New Rochelle NY	35
Technical Tape Corp Morris Heights New York 53 NY	35
Technicraft Co 1156 Commonwealth Ave Boston 34 Mass	27-30
Telectro Industries Corp 35-18 37 St Long Island City 1 NY	5
Telegraph Construction & Maintenance Co Ltd Mercury House Theobalds Rd London W C 1 England	27-28-35
19 Lane St Waltham 54 Mass	5-6-30
Thermal Refractories Corp 4501 Dell Ave N Bergen NJ	3
Thermo Materials Inc 4040 Campbell Ave Menlo Park Calif	3
Thiol Chemical Corp 750 N Clinton Ave Trenton 7 NJ	5-6-27
Thor Ceramics Inc 225 Belleville Ave Bloomfield NJ	3-24-29-33
Tingstol Co 1461 W Grand Ave Chicago Ill	15-28
Titanium Alloy Mfg Div Nat'l Lead Co 111 Broadway New York 6 NY	3
Topper Mfg Co Inc 147-12 Liberty Ave Jamaica 35 NY	3-5-6-27-29
Trans-Sil Corp 55 Honeck St Englewood NJ	32
Union Carbide and Carbon Corp Silicones Div 30 E 42 St New York 17 NY	5-6-7-10-30-31-34-35
United Mineral & Chemical Corp 16 Hudson St New York 13 NY	5-18-21-22-24-33-34
United Shoe Machinery Corp 140 Federal St Boston 7 Mass	6-80
U S Rubber Co 1230 4 Ave New York 20 NY	1-28-30-31
U S Stoneware Co Alite Div East Ave Tallmadge Ohio	3-27-29
Vitro Corp of America 261 Madison Ave New York 16 NY	3
Vocalite Screen Corp 19 Debevoise Ave Roosevelt NY	27

Voltube Corp Lincoln Hwy Menlo Park NJ	1-4-18-16-17-32-35
Vorac 147 Meadow Rd Rutherford NJ	11-27
Waldom Electronics Inc 4625 W 53 St Chicago 32 Ill	11
Walaco Electronics Mfg Co 100 W Green St Rockford Ill	11-13
Warren Wire Co Powell Vt	10-12
Western Felt Works 4029 Ogden Ave Chicago Ill	27-31-32
Western Gold & Platinum Co 525 Harbor Blvd Belmont Calif	24
Westinghouse Electric Corp P O Box 868 Pittsburgh 30 Pa	4-12-13-28
Westlake Plastics Co 133 W Lenni Rd Lenni Mills Pa	27
Wheaton Co T C Millville NJ	5-16-27
Wilmington Fibre Specialty Co New Castle Del	15-26
Winder Aircraft Corp of Fla P O Box 2397 Drane Fld Lakeland Fla	20
Wisconsin Porcelain Co 121 Lincoln St Sun Prairie Wis	5-29
Wright & Sons Co Wm E West Warren Mass	84
Zenith Plastics Co 1500 W 135 St Gardena Calif	10-18-26-27-28
Zippertubing Co 752 S San Pedro St Los Angeles 14 Calif	27-28

33—INSULATORS

insulators, antenna	1
insulators, bead	2
insulators, bearing	3
insulators, ceramic	4
insulators, cord	5
insulators, coupling	6
insulators, fabricated	7
insulators, feed through	8
insulators, glass bonded mica	9
insulators, H. V. power line	10
insulators, laminated	11
insulators, metallized bushing	12
insulators, mica	13
insulators, molded	14
insulators, plastic	15
insulators, rods	16
insulators, sheets	17
insulators, shock	18
insulators, sleeve	19
insulators, standoff	20
insulators, test clip	21
insulators, thermocouple	22
insulators, tower	23

Accurate Electronics Corp 169 S Abbe Rd SE Elyria Ohio	7-11-14
Ace Plastic Co 91-30 Van Wyck Expwy Jamaica 35 NY	7-11-15
Aerolite Electronics Corp 2207 Summit Ave Union City NJ	7
Allied Allegri Co 141 River Rd Nutley 10 NJ	11-15-20
Aluminum Co of America 1501 Alcoa Bldg Pittsburgh 19 Pa	4
American Insulator Corp New Freedom Pa	14-15
American Lava Corp Subs Minn Mining & Mfg Cherokee Blvd & Mfrn Rd 1-2-3-4-5-6-7-8-12- Chattanooga 5 Tenn	16-17-18-19-20-22-23
American Mica Radio Corp 235 Parker Ave Manasquan NJ	7-9-11-13-15-16-17
American Molded Products Co 2727 W Chicago Ave Chicago 22 Ill	14-15
Anchor Plastics Co 36-36 36 St Long Island City 6 NY	15-16-19
Armel Electronics Inc 840 E Ave Brooklyn 32 NY	8-14-20
Asheville-Schoonmaker Mica Co 900 Jefferson Ave Newport News Va	18
Auburn Mfg Co Pease Ave & Stack St Middletown Conn	17
Auburn Spark Plug Co 89 York St Auburn NY	4-8
Bakelite Co Div Union Carbide & Carbon Corp 30 E 42 St New York 17 NY	15
Barker & Williamson Inc Canal & Beaver Sts Bristol Pa	1
Harry Controls Inc Western Div 2921 N Naomi St Burbank Calif	18
Bentley Harris Mfg Co Conshohocken 30 Pa	19
Bergen Wire Rope Co 456 Gregg St Lodi NJ	4
Bestcraft Products Co 626 Broadway New York 12 NY	7-11
Birnback Radio Co 145 Hudson St New York 13 NY	1-8-20-21

Biwax Corp 3445 Howard St Skokie Ill	14
Boonton Molding Co 326 Myrtle Ave Boonton NJ	13-14-15
Bram Metallurgical-Chemical Div 820 65 Ave Philadelphia 36 Pa	13
Brand Dielectrics Inc 57 North St Willimantir Conn	11-13
Cambridge Thermionic Corp 445 Concord Ave Cambridge 38 Mass	8-11-20-21
Carborundum Co Global Div Hyde Park Blvd Niagara Falls NY	1-2-4-8-12-20-22
Carborundum Co Latrobe Plant Refractories Div Latrobe Pa	1-2-4-8-12-20-23
Centralab Div Globe-Union Inc 900 E Keefe Ave Milwaukee 1 Wis	1-2-3-4-8-10-12-16-20
Ceramaseal Inc P O Box 25 New Lebanon Center NY	8-12
Ceramtronics Inc 364 Highland Ave Passaic NJ	1-4-8-12
Channel Master Corp Ellenville NY	1
Cincinnati Molding Co 2037 Florence Ave Cincinnati 6 Ohio	15
Cloves Ceramic Corp 3711 Calhoun Ave Chattanooga 7 Tenn	4-20
Colonial Insulator Co 945 Grant St Akron 11 Ohio	1-4
Comar Products Box 776 Butler NJ	14
Consolidated Molded Products Corp 308 Cherry St Scranton 2 Penna	14-15
Consolidated Wire & Associated Cos 1635 S Clinton St Chicago 16 Ill	1
Constantin & Co L L Route 46 Lodi NJ	8
Continental Can Co Inc 100 E 42nd St New York 17 NY	11
Continental-Diamond Fibre Corp Newark Del	11-13-14-15
Cook Ceramic Mfg Co Prospect St Trenton NJ	4
Coors Porcelain Co 600 9th St Golden Colo	1-3-4-8-10-12-20
Crytalix-Westlake Corp W Lenni Rd Lenni Mills Pa	15-16-17
Decatur Electronic Industries Corp 203 Orinoco Dr Brightwaters 11 NY	7-11-14-21
Diamonite Products Mfg Co 1232 Cleveland Ave NW Canton Ohio	4-19
Dielectric Materials Co 5315-17 N Ravenswood Ave Chicago 40 Ill	15
Dittmore-Freimuth Corp 2517 E Norwich St Milwaukee 7 Wis	1-7-8-20
Dixon Corp Burnside St Bristol RI	14-17
Du-Co Ceramics Co Box 278 Sasonburg Pa	2-3-4-5-6-8-12-19-22
Duramic Products Inc 262 72 Mott St New York 12 NY	2-4-22
Electrical Refractories Co E Clark St E Palestine Ohio	4-22
Electrical Specialty Co 158 11 St San Francisco 8 Calif	4-7-9-13-14- 15-16-17-18-19
Electronic Mechanics Inc 101 Clifton Blvd Clifton NJ	4-8-9-12-14-16-17-20
Emeloid Co 1239 Central Ave Hillside 5 NJ	18
Emerson & Cuming Inc 869 Washington St Canton 1 Mass	16-17
Emerson Plastics Corp Seabury Ave & Butler Pl 1-2-3-7-8-11-13-14- Brook 61 NY	15-16-17-18-19-20-21-22-23
Enflo Corp Fellowship Rd Route 73 Manly Shade NJ	2-3-6-8-14-15-16-17-19-20-21
EPM Corp 675 Barbey St Brooklyn NY	15-20
Eric Resistor Corp 644 W 12 St Erie 6 Pa	4-14-15
Farnsworth Electronic Co Pacific Div 815 S San Antonio Rd Palo Alto Calif	4-8-20
Federal Shockmount Corp 1060 Washington Ave New York 56 NY	18
Finn & Co T R 200 Central Ave Hawthorne NJ	18
Fisher & Crome 109 N Camac St Phila 7 Pa	7-11-15-16-17
Fluorocarbon Products Inc Div P S Gasket Co 402 N 10 St Camden 1 NJ	1-3-7-8-11- 12-15-16-17-19-20
Ford Radio & Mica Corp 536 63 St Brooklyn 20 NY	13
Formica Corp 4614 Spring Grove Ave Cincinnati 11 Ohio	7-11-15-16-17
Frenchtown Porcelain Co Frenchtown NJ	4-8-12-20
Gandy Mfg Co 588 Eddy St Providence 8 Ill	1-7-8-14-15-20
Garlock Packing Co 402 Main St Palmyra NY	14-15
Gates Radio Co 123 Hampshire St Quincy Ill	8-10-15-18
Gee-Lar Mfg Co 418 S Wyman St Rockford Ill	1-14-15-20
General Cement Mfg Co Div Textron Inc 400 Wyman St Rockford Ill	1-8-21

General Ceramics Corp Crow's Mill Rd Keasbey NJ	1-2-3-4-8-12-19-20-23	Louthan Mfg Co Box 181 E Liverpool Ohio	4	Premax Products Div Chiabholm-Ryder Co College & Highland Aves Niagara Falls NY	1
General Components Inc 225 E 144 St Bronx 51 NY	8-15	Maryland Lava Co Box 205 Belair Md	1-2-4-8-15-20-22	Printoid Corp 93 Mercer St New York 12 NY	7-15
General Electric Co Insulator Dept S Charles & Cromwell Sta Baltimore 30 Md	4-10-16-23	Mayfair Molded Products Corp 3700 N Rose St Schiller Park Ill	1-14-15	Quality Components Inc St Marys Pa	8
General Electric Co Cunhocton Ohio	15-16-17	Mica Corp 4031 Elenda St Culver City Calif	11-12-17	Radio Essentials Inc 152 MacQueten Pkwy Mt Vernon NY	6-15
General RF Fittings Inc 702 Beacon St Boston 15 Mass	7-8-22	Mica Fabricating Co 53 Central Ave Kochelle Park NJ	9-11-13-14-15-16-17	Radio Merchandise Sales Inc 2018 Irondale Ave Bronx 53 NY	1
Glass-Solder Eng'g 4232 Temple City Blvd Rosemeade Calif	1-2-4-8-12-20	Mica Insulator Co 797 Broadway Schenectady 1 NY	7-8-11-13	Raytheon Mfg Co Ceramic Sales Foundry Ave Waltham Mass	4-8-12-20
Glastic Corp 4321 Glenridge Rd Cleveland 21 Ohio	1-11-14-15-16-17	Micacraft Products Inc 701 McCarter Hwy Newark 5 NJ	13	Raytheon Mfg Co Microwave & Power Tube Operations Foundry Ave Waltham Mass	4-20
Goe Eng'g Co 219 S Mednik Ave Los Angeles 22 Calif	4-8-20	Millen Mfg Co James 150 Exchange St Malden 46 Mass	1-2-4-6-8-14-15-20	Red Seal Electric Co 6321 Detroit Ave Cleveland 2 Ohio	1-11-14-15
Gordon Co Claude S 3000 S Wallace St Chicago 16 Ill	22	Minerals & Insulation Co Ruchelle Park NJ	4-7-9-12-14-15-16-17-19	Rego Insulated Wire Co 830 Monroe St Hoboken NJ	8
Granger Associates 966 Commercial St Palo Alto Calif	1-7	Minnesota Rubber & Gasket Co 3630 Woodale Ave St Louis Park Minneapolis 16 Minn	2-4-13-14-15-16-17 6-14-16-17	Resistoflex Corp Woodland Rd Roseland NJ	15-16-17-19
Grayhill Inc 561 Hillgrove Ave La Grange Ill	20	Minor Rubber Corp Ackerman St Bloomfield NJ	14-19	Richards Co Arklay 5 35 Winchester St Newton Highlands 61 Mass	22
Gries Reproducer Corp 5 2nd St New Rochelle NY	3-7-14-15	Mitronics Inc 1290 Central Ave Hillside NJ	4-5-12	Robinson Aviation Inc Teterboro NJ	18
Guastavino Co 660 Main St Woburn Mass	4	Modern Wire Co 8930 Review Ave Long Island City 1 NY	4	Robinson Machine Works 802 E X St New Albany Ind	15
Halowen Insulator & Seal Corp 10121 Franklin Ave Franklin Park Ill	2-15-16-17-19	Molded Fiber Glass Co 4901 Benefit Ave Ashtabula Ohio	17	Rogan Bros 8031 N Monticello Skokie Ill	14
Haver Industries Inc 900 Greenbank Rd Wilmington 8 Dela	16	Molded Insulation Co 335 E Price St Philadelphia 44 Pa	15	Rogers Corp Rogers Conn	7-14-17
Hays Mfg Co 803 W 12th St Erie Pa	14-15	Molded Products Div Admiral Corp Washington & Creamery Rd W Chicago Ill	15	Rubbercraft Corp of Calif 1800 W 220 St Torrance Calif	14
Hermetic Pacific Corp 4232 Temple City Blvd Rosemeade Calif	1-2-4-8-12-20	Moure Co Howard J 265 Williams St New York NY	7-8-11-13-14-15-16-17-19-20	Saffter Glass Co 4717 Stenton Ave Philadelphia 41 Pa	9-11
Holsen Bros 4940 W Lawrence Ave Chicago 30 Ill	8-14	Murray Corp 2014 N Major Ave Chicago 39 Ill	13	Sanzamo Electric Co 11 & Converse Springfield Ill	20
Huse-Liberty Mica Co Peabody Industrial Center Peabody Mass	7-11-13-16-17	Morganite Inc 83-02 48 Ave Long Island City 1 NY	4	Saxon Products Inc 1361 Boone Ave New York 60 NY	20
IE Mfg 325 N Hoyne Ave Chicago 12 Ill	1-7-20-23	Mueller Electric Co 1583 E 81 St Cleveland 14 Ohio	21	Sealastic Corp 610 Fayette Ave Mamaroneck NY	20
Illumitronic Eng'g Co 880 E Taylor Ave Sunnyside Calif	16	Mycalex Corp of America 125 Clifton Blvd Clifton NJ	4-7-9-13-14-16-17	Shamban & Co W S 11617 W Jefferson Blvd Culver City Calif	8-20
Industrial Accessories Inc Line Rd Matawan NJ	14	Mykroy Inc Wheeling Ill	1-2-4-7-8-9-10-14-15-16-17-19	Sheffco Mfg Corp 323 Bergen Blvd Fairview NJ	7-11
Industrial Engravers Inc 2212 McDonald Ave Brooklyn 23 NY	7	National Company Inc 61 Sherman St Maiden 46 Mass	4-8-20	Silicone Insulation Inc Seabury Ave & Butler Pl Bronx 51 NY	1-2-3-7-11-14-15-16-17-19-20-23
Insulating Fabricators Inc 150 Union Ave E Rutherford NJ	16-17	National Electric Coil Co 800 King Ave Columbus 16 Ohio	13	Sillocks-Miller Co 10 W Parker Ave Maplewood NJ	14-15
Insulating Fabricators of N E Inc 69 Grove St Watertown 72 Mass	7-11-15-16-17	National Gasket & Washer Mfg Co 124 E 25 St New York 16 NY	7	Sinclair Mfg Co S Worcester St Chartley Mass	20
Insulation Mfrs Corp 565 W Washington Blvd Chicago 39 Ill	7-9-11-13-14-15-16-17-19	National Tel-Tronics Corp 52 St Casimir Ave Yonkers NY	7-11-15-16-17	Smith Inc Herman H 2326 Nostrand Ave Brooklyn 10 NY	6-8
Insuline Corp of America 146 Granite St Manchester NH	7	National Vulcanized Fibre Co P O Box 811 Wilmington 99 Dela	7-11-15-16-17	Solar Mfg Corp 4653 Seville Ave Los Angeles 58 Calif	4-8-20
Integrated Mica Corp 202 Franklin Pl Woodmere Ll NY	13	New England Mica Co 66 Woerd Ave Waltham 54 Mass	9-13	Sparta Mfg Co Dover Ohio	7
Isolantite Mfg Corp Warren Ave Stirling NJ	1-2-3-4-6-7-8-12-16-20-22	New Jersey Wood Finishing Co Amboy Ave Woodbridge NJ	11	Spaulding Fibre Co Inc 1325 San Julian St Los Angeles 15 Calif	15-16-17
Jacksonville Metals Plastics Co 575 Dora St Jacksonville Fla	7-15	Newman Co M M 79 Clifton Ave Marblehead Mass	19	Spaulding Fibre Co 310 Wheeler St Tonawanda NY	8-11-15
Jorlin Mfg Co Lufberry Ave Wallingford Conn	7-8-15-20	Nichols Products Co 825 W Main St Moorestown NJ	6-11-15	Specialties Inc 261 Madison Ave New York 16 NY	16-17
Jodie Plastics Co 213 Shepherd Ave Brooklyn 8 NY	7-15	Norricks Plastics Corp 107 W 186 St New York 18 NY	1-2-3-6-7-8-11-14-15-16-17-19-20	Spruce Pine Mica Co P O Box 456 Spruce Pine N Carolina	11-18
Johnson Co E F 206 2 Ave S W Waseca Minn	1-4-8-20	Northern Plastics Corp 2nd Market St Lacrosse Wisc	7-9-11-15-17	Star Porcelain Co 21 Muirhead Ave Trenton 9 NJ	4
Jones Electronics Hiram 2313 W Olive St Burbank Calif	4-4-14-15-20	Norton Co 1 New Bond St Worcester 6 Mass	22	Stevens Paper Mills Rainbow Rd Windsor Conn	11-17
Jones Optical Works A D 2400 Massachusetts Ave Cambridge 40 Mass	7	Ohio Brass Co 380 N Main St Mansfield Ohio	10	Steward Mfg Co D M Chattanooga Tenn	1-2-4-8-16-19-20
Keasbey & Mattison Co Butler Ave Ambler Pa	17	Parker Metal Goods Co 85 Prescott St Worcester 8 Mass	1-16-20	Stupakoff Div Carborundum Co Latrobe Pa	1-2-4-6-8-20-22
Kirchberger & Co M 83-91 W Forest Ave Englewood NJ	2-3-4-14-15-16-17-18-19-20	Peerless Products Industries 812 N Pulaski Rd Chicago 51 Ill	7-8-15-20	Sun Chemical Corp 10-10 44 Ave Long Island City 1 NY	7-11-15
Laminated Sheet Products Corp 448 Neponset St Norwood Mass	15-16-17	Penn Fibre & Specialty Co 2020 E Westmoreland St Philadelphia 34 Pa	1-7-11-15-16-17-18-19	Superior Steatite & Ceramic Corp 83 91 W Forest St Englewood NJ	2-3-4-14-15-16-17-18-19-20-22
La Morse Co D 2483 Birkdale St Los Angeles 31 Calif	2-7-13-15-16-17-19	Penna Fluorocarbon Co Inc 1115 N 38 St Phila 4 Penna	15	Surprenant Mfg Co 172 Sterling St Clinton Mass	15-19
Lamtex Industries Inc 51 State St Westbury NY	7-11-15-16-19	Perfection Mica Co 1822 N Elston Ave Chicago 22 Ill	13	Svedlow Plastics Co 6984 Handini Blvd Los Angeles 22 Calif	11-15-17-23
Lancaster Glass Corp Lancaster Ohio	14-15	Permacel-Le Pages Inc U S Hwy 1 New Brunswick NJ	19	Sylvania Electric Products Inc Parts Div 12 2nd Ave Warren Pa	13-15
Lance Antenna Mfg Co 1750-1802 1st St San Fernando Calif	1	Permonite Mfg Co 444 Lake Shore Dr Chicago 11 Ill	7-11-15-16-17-18	Syncor Products Co 30 Eastern Ave Box 51 Malden 48 Mass	2-3-4
La Pointe Industries Inc 155 W Main St Rockville Conn	1-7-14-15-16	Petroff Corp Peter A 127 Water St New York 5 NY	1-8	Synthane Corp Montgomery Ave Oaks Pa	7-11-15-17-20
Lepp Insulator Co Radio Specialties Div 818 Gilbert St Le Roy NY	1-4-8-10-12-16-20-23	Plasteck Inc P O Box 551 Poteau Okla	15	Taurus Corp 8 Corvett St Lambertville NJ	8-15-20
Lee Chemical Corp Walter 1383 Seabury Ave & Butler Pl Bronx 61 NY	1-2-3-7-15	Plastic Accessories Inc 91 Mercer St New York 12 NY	7-15	Taylor Fibre Co Box 471 Norristown Pa	7-11-16-17
Lercio Electronics Inc 501 S Varney St Burbank Calif	8-14-20	Plastite Corp 827 Rider Ave Bronx 51 NY	20	Telephonics Corp Park Ave Huntington Ll NY	1
Line Material Industries 700 W Michigan Milwaukee Wisc	10	Polymer Corp 2120 Fairmont Ave Reading Pa	3-7-14-15-16-17-19-20	Tevo Insulated Wire 108 E Prospect Ave Burbank Calif	20
Litton Industries Components Div 3873 Rodeo Rd Los Angeles 18 Calif	4-8-14-15-16-17-19-20	Porcelain Products Inc 224 N Patterson St Carey Ohio	1-4	Thermal Refractories Corp 4501 Dell Ave N Bergen NJ	4-12
		Precision Metal Products Co 41 Elm St Stoneham Mass	7-11-14-15-16-17-20	Thermo Electric Co 109 5 St Saddle Brook NJ	22
				Thermo Materials Inc 4040 Campbell Ave Menlo Park Calif	4
				Thomas & Sons R Lisbon Ohio	1-4-10-20
				Thor Ceramics Inc 225 Belleville Ave Bloomfield NJ	1-2-3-4-5-6-7-8-12-16-17-19-20-22-23
				Topper Mfg Co Inc 147-12 Liberty Ave Jamaica 36 NY	15
				Tri-Dex Electronics P O Box 1207 Lindsay Calif	7

Tri-Point Plastics Inc	1-2-3-7-8-11-
15 E U Willets Rd	15-16-19-20
Albertson LI NY	
Tronex Inc	8-12
Wheaton Ave Millvale NJ	
United Mineral & Chemical Corp	
16 Hudson St	
New York 13 NY	1-4-10-13-19-20
Universal Clay Products Co	
1528 E 1 St Sandusky Ohio	1-4
U S Plastic Molding Corp	
Carlton St Wallingford Conn	7-14-16-19-20-22
U S Stoneware Co Alite Div	
East Ave Tallmadge Ohio	4-8-12
Utilities Service Co	
1 Pine St Allentown Pa	10-23
Vorflex Corp	
511 W Court St Rome NY	19
Victor Insulator Div I-T-E Circuit	
Breaker Co Maple Ave Victor NY	4-10-20
Virginia Electronics Co	
River Rd & H & O RR	
Washington 16 DC	7
Wade Electric Products Co	
Hox 271 Sturgis Mich	14-15-19
Waltham Screw Co	
77 Rumford Ave	
Waltham 64 Mass	2-6-7-15-20
Welch Co Inc Wm H	
2241 Indiana Ave Chicago 16 Ill	14-15
Western Coil & Electrical Co	
215 State St Racine Wis	1-20
Western Gold & Platinum Co	
525 Harbor Blvd Belmont Calif	4
West Instrument Corp	
4363 W Montrose Ave Chicago 41 Ill	22
Westlake Plastics Co	
133 W Lenni Rd Lenni Mills Pa	15
West Virginia Pulp & Paper Co	
230 Park Ave New York 17 NY	14
Wheaton Co T C	
Millville NJ	8-12-20
Whitao Inc	
8330 Byron St Schiller Park Ill	8-14-16-20
Wilmington Fibre Specialty Co	
New Castle Del	11
Winder Aircraft Corp of Fla	
P O Box 2397 Drane Fld Lakeland Fla	1
Wind Turbine Co	
E Market St & P R R W	
West Chester Pa	1-4-7-8-15-20-23
Wisconsin Porcelain Co	
121 Lincoln St	1-2-4-7-8-
Sun Prairie Wis	10-16-19-20-22
Zenith Plastics Co	
1600 W 135 St	
Gardena Calif	1-11-14-15-17

34—KITS

Antenna, home	1
Breadboard	2
Communication	3
Component	4
Computer	5
Electronic	6
Geiger counter	7
Modification	8
Portable lighting	9
Receiver	10
Test equipment	11
Transmitter	12

Aerolite Electronics Corp	
2207 Summit Ave Union City NJ	2
Aerovox Corp	
740 Belleville Ave New Bedford Mass	2
Aircraft Radio Corp	
Bloomington NJ	11
Alden Products Co	
12358 N Main St Brockton 64 Mass	2-4
Allied Radio Corp	
100 N Western Ave	
Chicago 80 Ill	6-10-11-12
American Electronics Co	
1203 Bryant Ave New York 59 NY	1-12
American Machine & Foundry Co	
Defense Products Group	
1101 N Royal St Alexandria Va	3-8-11
Amphenol Electronics Corp	
1830 E 84 Ave Chicago 50 Ill	1
Atlas Precision Products Co	
3801 Cantor Ave Philadelphia 24 Pa	2
Audicon Electronics Inc	
216 Lyon St	
Paterson 4 NJ	3-6-8-10-11-12
Beckman/Heliport Corp	
Newport Beach Calif	
Berkshire Labs	
586 Bank Village Greenville NH	4
Birnback Radio Co	
445 Hudson St New York 13 NY	1
Bogen-Presto Div Siegler Corp	
P O Box 500 Paramus NJ	6
Bowmar Instrument Corp	
5000 Bluffton Rd Ft Wayne Ind	2
Brach Mfg Corp/Div General Bronze Corp	
200 Central Ave Newark 3 NJ	1
Brooks Radio & TV Corp	
144 Vesey St New York 7 NY	6-8-10
Cable Electric Products	
234 Daboll St Providence 7 RI	9

Cambridge Thermionic Corp	
446 Concord Ave Cambridge 28 Mass	4
Centralab Div Globe-Union Inc	
900 E Keefe Ave Milwaukee 1 Wisc	4
Central Coil Co	
1720 N Luet St Indianapolis 22 Ind	4-6
Central Electronics Inc	
1247 W Belmont Ave	
Chicago 13 Ill	3-10-11-12
Certified Radio Labs	
5507 13 Ave Brooklyn 19 NY	6-10
Columbia Wire & Supply Co	
2850 Irving Park Rd Chicago 18 Ill	1
Compton Corp	
778 Pleasant St Belmont 79 Mass	5
Conn Telephone & Electric Corp	
70 Britannia St Meriden Conn	2-8
Consolidated Wire & Associated Cos	
1635 S Clinton St Chicago 16 Ill	1
Conser Canada Ltd	
301 Windsor St	
Halifax Nova Scotia Canada	11
Curtis-Wright Corp Electronics Div	
631 Central Ave Carlstadt NJ	2
Dale Boisen Co	
2928 Nebraska Ave Santa Monica Calif	2
Designers For Industry	
4241 Fulton Pkwy	
Cleveland 8 Ohio	3-6-6-11-12
Dietzen Co Eugene	
2425 N Sheffield Ave Chicago Ill	6
D & R Ltd NY	10
402 E Gutierrez St Santa Barbara Calif	10
Dunlap Electronics	
764 9 St Des Moines 14 Iowa	2-8-6
Dynamic Development Co	
59 New York Ave Westbury NY	6
Dynamic Electronics Inc	
73-29 Woodhaven Blvd	
Forest Hills NY	6-10-11
Dynamic Gear Co	
20 Merrick Rd Amityville LI NY	2
Eastern Specialty Co	
3617 N 8 St Phila 80 Pa	11
Electronic Instrument Co	
44 Withers St	
Brooklyn 11 NY	6-7-10-11
Ehy Sales Co	
130 Lafayette St New York 13 NY	12
Eicor Inc Div Jacobs Co	
517 W Walnut St Ogelsby Ill	6
Electronic Measurements Corp	
626 Broadway New York 12 NY	11
Electronics Inc	
39 York Rd Willow Grove Pa	10
Electro Products Labs Inc	
4501 N Ravenswood Ave Chicago 40 Ill	11
Empire Electronics Co	
166 River St Paterson 1 NJ	8
Engineering Developments Inc	
Forest Ave Middletown RI	9
Erie Resistor Corp	
644 W 12 St Erie 6 Pa	4-6
Felshthal & Sons Inc G	
3500 N Kedzie Ave Chicago 18 Ill	6
First Electronics Corp	
117 Blue Hill Ave Boston 19 Mass	6-8-11
F-R Machine Works Inc	
Electronic & X-Ray Div	
26-12 Borough Pl Woodside 77 NY	11
General Cement Mfg Co Div Textron Inc	
400 Wyman St Rockford Ill	1
G & M Equipment Co	
7315 Varna Ave N	
Hollywood Calif	3
Goldak Co	
1544 W Glenside Blvd Glendale 1 Calif	3-7
Gordon Enterprises	
5362 N Cahuenza Blvd N Hollywood Calif	9
Gyro Electronics Co	
325 Canal St New York 13 NY	3-10-12
Hals-Hen Co	
36-14 11 St Long Island City 6 NY	10
Hallamore Electronics Co	
#352 Brookhurst Ave Anaheim Calif	8
Heath Co	
305 Territorial Rd	
Henton Harbor Mich	3-5-6-7-8-10-11-12
Helipot Corp	
Newport Beach Calif	
Hewson Co	
443 Broad St Newark 2 NJ	11
Hickok Electrical Instrument Co	
10514 Dupont Ave Cleveland 8 Ohio	11
Hill & Co F Vernun	
P O Box 189 Lake Geneva Wisc	11
IE Mfg	
325 N Hoyne Ave Chicago 12 Ill	1-2-11
Industrial Timer Corp	
1407 McCarter Hwy Newark 4 NJ	4
Insuline Corp of America	
186 Granite St Manchester NH	1
JFD Electronic Corp	
6101 16 Ave Brooklyn 4 NY	1
Johnson Co E F	
206 2 Ave S V Waseca Minn	1-3-12
Kahn & Co	
541 Windsor St Hartford 1 Conn	11
Keil Eng'g Products Co	
6833 Manchester Ave St Louis 10 Mo	6
Lakko Scientific Inc	
111 W Elm Stillwater Okla	6
Lance Antenna Mfg Co	
1730-1802 1st St San Fernando Calif	1
Lynmar Engineers Inc	
1432 N Carlisle St Philadelphia 21 Pa	12
Mack Electronics Div Mack Trucks Inc	
40 Leon St Boston 15 Mass	2

Madigan Corp	
325 Minosia Ave Carlo Place NY	3
Magnaflux Corp	
7300 W Lawrence Ave Chicago 31 Ill	11
Metal Specialty Products Corp	
27-01 Brooklyn-Queens Expressway W	
Woodside 77 NY	8
Micro-Circuits Co	
Div Buffalo Mich	6
Miller Co J W	
5917 S Main St Los Angeles 2 Calif	10
Mine Safety Appliances Co	
201 N Braddock Ave Pittsburgh 8 Pa	9
Aeronautical Div	
2600 Ridgway Ave	
Minneapolis 13 Minn	6-8-11
Modern Wire Co	
Minn-Honeywell Regulator Co	
29-30 Review Ave Long Island City 1 NY	1
Norvo Products Mfg Co	
392 Bleeker St New York 14 NY	9
Nuclear Products-Pro	
Div ACF Industries Inc	
Riversdale Md	6
Nucleonic Corp of America	
196 Degraw St Brooklyn 31 NY	7
Paco Electronics Co Inc	
70-31 84th St Glendale 27 LI NY	6-11
Parker Metal Goods Co	
85 Prescott St Worcester 5 Mass	1
Phillips Research Inc George A	
230 Congress St Boston 10 Mass	5-6
Philmore Mfg Co	
113 University Pl New York 3 NY	1-6-10
PIC Design Corp	
477 Atlantic Ave E Rockaway LI NY	2-4-5
Pomona Electronics Co	
1126 W 5 Ave Pomona Calif	2
Precision Development Corp	
2 Neil Ct Oceanville NY	10-11
Precision Electronics Inc	
8101 King St Franklin Pk Ill	4-6-10-11
Precision Metal Products Co	
41 Elm St Stoneham Mass	7
Q-Line Mfg Corp	
1562 61 St Brooklyn 19 NY	1
Radio City Products Co	
Centre & Glendale Sta Easton Pa	6-7-11
Radio Corp of America	
Commercial Electronic Products	
Front & Cooper Sta Camden NJ	12
Radio Essentials Inc	
152 MacGonigley Pkwy Mt Vernon NY	11
Radio Merchandise Sales Inc	
2016 Bronxdale Ave Bronx 62 NY	1
Rea Co J R	
1723 Cloverfield Blvd	
Santa Monica Calif	5-6-8-11
Reeves Instrument Corp	
Roosevelt Field Garden City NY	2
Republic Aviation Corp	
Farmingdale LI NY	6-8-11
Rofan Co	
Topfield Mass	9
Rollan Electric Co	
8233 S Princeton Ave Chicago 20 Ill	1
Rue Products	
1628 Venice Blvd Venice Calif	12
Saxon Products Inc	
1661 Boone Ave New York 60 NY	11
Seco Mfg Co	
6015 Penn Ave S Minneapolis 19 Minn	11
Servo Corp of America	
2020 Jericho Turnpike New Hyde Park NY	2
Servomechanisms Inc	
12800 Aviation Blvd Hawthorne Calif	2-4-5
Servomechanisms Inc	
1200 Prospect Ave Westbury NY	2
Servo Systems Co	
55 Meeker Ave Newark 12 NJ	2-8
S O S Cinema Supply Corp	
602 W 52 St New York 19 NY	9
Specialty Eng'g & Electronics Co	
79 Clifton Pl Brooklyn 38 NY	3-9
Specific Products Co	
21031 Costanzo Woodland Hills Calif	2
Sprague Electric Co	
Marshall St North Adams Mass	4
Springfield Enterprises	
128-17 Springfield Blvd	
Springfield Gardens 13 NY	3
Superec Electronics Corp	
58 Marshdale Rd Tuckahoe NY	4-10
Swan Electronics Co	
5016 N Austin Ave Chicago 30 Ill	6-10
Taffet Radio & TV Co	
27-05 Brooklyn-Queens Expressway W	
Woodside 77 NY	8
Tech-Master Corp	
75 Front St Brooklyn 1 NY	6-10
Technical Appliance Corp	
1 Taco St Sherburne NY	1
Techniques Inc	
52 Jackson Ave Hackensack NJ	2-4
Tee-Kit Co	
Box 8827	
Kansas City 15 Mo	1-2-3-4-5-6-7-8-9-10-11-12
Telematic Industries Inc	
15 Howard Ave Brooklyn 7 NY	10
Torocoil Co	
2615 Bristol Rd Columbus 21 Ohio	4-6
Tracerlab Inc	
1601 Trapelo Rd Waltham 64 Mass	7
Trans-Tel Corp	
910 N Orange Dr Los Angeles 38 Calif	6
Transvision Inc	
61 North Ave New Rochelle NY	2-6-10-11
Tricraft Products Corp	
1124 W Newport Ave Chicago 22 Ill	1

TV Hardware Mfg Co Div Textron Inc	
400 S Wyman St Rockford Ill	1
Universal Scientific Co Inc	
1102 Shelby St Vincennes Ind	2-3-6
Victor Electronic Co	
1100 Flower St Glendale 1 Calif	2
Victory Eng'g Co	
121 Springfield Rd Union NJ	4
Videon Electronic Corp	
902 E Michigan St Indianapolis Ind	
Vokar Corp	
7300 Huron River Dr Dexter Mich	10
Voron & Co George	
835 N 19 St Philadelphia 30 Pa	8
Waldorf Instrument Co Div F C Huyck & Sons	
Park Ave Huntington Station NY	11
Walco Electronics Mfg Co	
100 W Green St Rockford Ill	1-2
Warren Mfg Co	
Newtown Rd Littleton Mass	8
Weymouth Instrument Co	
1440 Commercial St E Weymouth 89 Mass	11
Williams Brown & Earle Inc	
904 Chestnut St Philadelphia 7 Pa	6
Winder Aircraft Corp of Fla	
P O Box 2387 Drane Fla	
Lakeland Fla	3-4-5-6-8-11-12
Wind Turbine Co	
E Market St & P R R W West Chester Pa	1
Worner Electronic Devices	
Rankin Ill	6
WRI Electronics Inc	
3415 W Broadway Council Bluffs Iowa	12

35—LIGHTING EQUIPMENT & ACCESSORIES

Accessories & supplies	1
Cold cathode	2
Consoles, control	3
Dimmers	4
Gobos	5
Lamps, infra-red	6
Lamps, inspection	7
Lighting, emergency	8
Lighting, preset panels	9
Lighting, tower	10
Lighting, TV	11
Lights, arc	12
Lights, black	13
Lights, dial	14
Lights, flood	15
Lights, fluorescent	16
Lights, glow	17
Lights, incandescent	18
Lights, neon test	19
Lights, signal	20
Lights, spot	21
Meters, light	22
Power supplies	23
Scopes	24
Stroboscopes	25
Studio rigging	26

Acme Electric Corp	
Water St Cuba NY	2
Adams Lighting Inc	
10 1 St Pelham NY	1-16-18
Advance Transformer Co	
2150 N Weston Ave Chicago 14 Ill	1
Aeronic Electronics Corp	
2207 Summit Ave Union City NJ	20
Aerolux Light Corp	
653 11 Ave	2-6-12-13-16-17
New York 36 NY	19-20-21-25
Aerotron Associates	
Box 419 Concord NH	25
Alden Products Co	
12358 N Main St Brockton 64 Mass	14-20
Allied Eng'g & Production Corp	
2421 Handing Ave Alameda Calif	16
Alco Scientific	
5655 Kingsbury Blvd St Louis 12 Mo	6-22
Amco Eng Co	
7333 W Ainslie St Chicago 81 Ill	3
American Cystoscope Makers Inc	
8 Pelham Pky Pelham Manor NY	7
American Rectifier Corp	
95 Lafayette St New York 13 NY	4-8-23
American Searchlight Corp	
34 W 53 St New York NY	12
American Speedlight Corp	
63-01 Metropolitan Ave	
Middle Village 79 NY	1-23
American Television & Radio Co	
300 E 4 St St Paul 1 Minn	23
Amulo Corp	
4383 Ravenswood Ave Chicago 13 Ill	17-20
Amplifier Corp of America	
398 Broadway New York 13 NY	23
Andrew Antenna Corp	
606 Beech St Whitby Ontario Can	10
Andrew Corp	
763 E 75 St Chicago 19 Ill	10
Art Specialty Co	
3245 W Lake St Chicago 24 Ill	6
Automatic Switch Co	
Hanover Rd Florham Park NJ	1-8-10

Auto Test Inc	
600 S Michigan Ave Chicago 5 Ill	23-25
Barker & Williamson Inc	
Canal & Beaver Sta Bristol Pa	16
Berkshire Labs	
55 Bank Village Greenville NH	25
Black Light Corp of America	
5114 Walnut Grove Ave San Gabriel Calif	7
Black Light Eastern Corp	
33-00 Northern Blvd	
Hayside 61 NY	7-13-16-18
Bogue Electric Mfg Co	
52 Iowa Ave Paterson 3 NJ	8-23
British Electronic Sales Co Inc	
Aerolectic Switch Div	
Oakland Gdns Flushing NY	14-17-19
Brunswick Instruments	
P O Box 813 New Brunswick NJ	19
Bundy Electronics Corp	
171 Fabyan Pl Newark 12 NJ	8-23
Burgess Battery Co	
415 Hutter St	
Niagara Falls Ont Canada	8-21
Cable Electric Products	
234 Daboll St	
Providence 7 RI	1-5-9-17-18-19-20-21
Camera Equipment Co	
315 W 43rd St	
New York 36 NY	1-4-5-11-15-21-23-24
Canon Electric Co	
3208 Humboldt St Los Angeles 31 Calif	20
Century Lighting Inc	
521 W 43 St	1-3-4-5-9-11-12-
New York 36 NY	15-16-18-21-24
Champion Lamp Works	
330 Lynnway Lynn Mass	16-18
Chicago Miniature Lamp Works	
1500 N Ord Ave	
Chicago 10 Ill	7-11-14-18-19-20
Christie Electric Corp	
3410 W 67 St Los Angeles 43 Calif	23
Compo Corp	
2251 W St Paul Ave Chicago 47 Ill	10-15-16
Consolidated Diesel Electric Corp	
880 Canal St Stamford Conn	15-23
Cook Co Frank R	
36 S Santa Fe Dr Denver 23 Colo	23
Dallona Labs	
5066 Santa Monica Blvd	
Los Angeles 29 Calif	2-13
Davenport Mfg Co	
1713 N Ashland Ave Chicago 22 Ill	23-25
Dazor Mfg Corp	
4481-99 Duncan Ave	
St Louis 10 Mo	7-16-18
Deltron Inc	
2905 N Leithrow St Philadelphia 33 Pa	23
Dialight Corp	
60 Stewart Ave	
Brooklyn 37 NY	14-17-18-19-20
Drake Mfg Co	
1713 W Hubbard St Chicago 22 Ill	17-20
Dry Screen Process Inc	
1016 Madison Ave Pittsburgh 12 Pa	12
Eagle Electric Mfg Co	
23-10 Bridge Plaza	
Long Island City 1 NY	1-6-7-18-19
Ederston Gerneshausen & Grier	
150 Brookline Ave Boston 15 Mass	25
Electric Cord Co	
21 Spruce St New York 38 NY	8-15
Electric Machinery Mfg Co	
800 Central Ave Minneapolis 13 Minn	24
Electri-Wire Assemblies	
700 W Virginia Milwaukee 4 Wis	16
Electronic Brazing Co	
140 Glenridge Ave Montclair NJ	25
Engineering Developments Inc	
Forest Ave Middletown RI	
Ericson Mfg Co	
1660 Hayden Ave Cleveland 12 Ohio	1-7
Exide Industrial Div	
Electric Storage Battery Co	
42 S 15 St Phila 2 Pa	8
Falstrom Co	
Falstrom Court Passaic NJ	8
Fansteel Metallurgical Corp	
2200 Sheridan Rd N Chicago Ill	23
Federal Instrument Corp	
12-10 Broadway Long Island City 6 NY	22
Felsenthal & Sons Inc G	
3800 N Kedzie Ave Chicago 18 Ill	20
First Electronic Corp	
117 Blue Hill Ave Boston 19 Mass	23
Fisher Pierce Co	
170 Pearl St S S Braintree 85 Mass	10-22
Flexo International Corp	
3720 N Milwaukee Ave Chicago 41 Ill	7-16-18
Footprint Pressed Steel Corp	
N Main St Fostoria Ohio	6-16-18
Gates & Co Geo W	
Hempstead Tpke & Lucille Ave	
Franklin Square LI NY	7-12-13
General Electric Co	
Outdoor Light Dept	
Hendersonville NC	10-11-15
General Electric Co	
Miniature Lamp Dept Nela Park	
Cleveland 12 Ohio	7-14-15-17-18-19-20-21-22
General Radio Co	
275 Massachusetts Ave	
Cambridge 39 Mass	4-22-25
General Railway Signal Co	
P O Box 600 Rochester NY	20
General Scientific Equipment Co	
7516 Limerick Pike Phila 80 Pa	8
Generator Corp	
P O Drawer 472 Manassas Va	23
Glen Falls Lab	
Box 645 Glens Falls NY	22

Gordon Enterprises	
5302 N Cahuenga Blvd	4-5-12-16-18-19-
N Hollywood Calif	20-21-22-23-25
Groat Western Div Interlectric Corp	
1401 Lexington Ave Warren Pa	16-18
Green Rectifier Co	
1-10 30 St Fairlawn NJ	12-23
Gries Reproducer Corp	
5 2nd St New Rochelle NY	1
Gyro Electronics Co	
325 Canal St New York 13 NY	25
Hall-Scott	
2950 N Ontario St Burbank Calif	8-21
Harwood Electronics Co	
466 W Superior St Chicago 10 Ill	1
Herzog Miniature Lamp Works	
50-17 5 St Long Island City 1 NY	18
Hetherington Inc	
Weimar Dr Folsom Pa	20
Hickok Electrical Instrument Co	
10514 Dupont Ave Cleveland 8 Ohio	23-25
Hudson Lamp Co	
524 Elm St Kearny NJ	17-18
Hughes & Phillips	
3300 N San Fernando Blvd Burbank Calif	10
International Research & Development Corp	
P O Box 55 Worthington Ohio	25
Jacob Instrument Co	
4718 Bethesda Ave Bethesda 14 Md	25
Javox	
P O Box 646 Redlands Calif	1
Joy Mfg Co Electrical Products Div	
1201 Macklind Ave St Louis 10 Mo	8-15
Kahn & Co	
541 Windsor St Hartford 1 Conn	23
Kato Eng'g Co	
1415 1 Ave Mankato Minn	5
Katolight Corp	
1st Ave at Chestnut Mankato Minn	5
Kees Mfg Co F D	
700 Park St Beatrice Nebr	15
Kemlite Labs Inc	
1819 W Grand Ave	
Chicago 22 Ill	2-6-8-11-13-20-25
Kent Lighting Corp	
500 Johnson Ave	
Brooklyn 37 NY	2-3-4-8-9-13-16-18
Kilgen Aircraft Div Kilgen Organ Co	
4632 W Florissant Ave	
St Louis 16 Mo	3-9-11
Kirkland Co H R	
8 King St Morristown 4 NJ	14-20
Kliel Bros	
321 W 50 St	2-3-9-11-12-13-
New York 19 NY	15-16-18-21-24
Laine Electronics & Mfg Co	
91 Industrial Ave Little Ferry NJ	35
Lawyer Chemicals Inc	
3550 Touhy Ave Chicago 45 Ill	13
Lee Electric & Mfg Co	
2806 Clearwater St Los Angeles Calif	23
Lindgren & Assoc Erik A	
4515 N Ravenswood Ave Chicago Ill	2-18
Line Material Industries	
700 W Michigan Milwaukee Wis	15-16-18
Luxo Lamp Corp	
102 Columbus Ave Tuckahoe NY	7-16-18-21
Luxor Lighting Products Inc	
350 5 Ave New York 1 NY	2-6-7-10-11-16-18
McAlister Inc J G	
1117 N McCadden Pl	
Hollywood 38 Calif	1-4-5-11-15-18-21-24-26
Magnaflex Corp	
7300 W Lawrence Ave Chicago 31 Ill	13
Magnetic Amplifiers Inc	
632 Tinton Ave New York 55 NY	4-11-23
Matchless Electric Co	
1700 Washington Blvd	
Chicago 12 Ill	14-18-20
M-B Communication Co	
426 Walnut St Philadelphia 39 Pa	26
Menlo Research Lab	
538 Phelan Ave San Jose Calif	2-13
Merix Chemical Co	
1021 E 55 St Chicago 15 Ill	1
Micarta Fabricators Inc	
5324 N Ravenswood Ave Chicago 40 Ill	14
Mid-West Conveyor Co Metal Products Div	
7 A Sunshine Rd Kansas City 15 Kan	9
Mine Safety Appliances Co	
201 N Braddock Ave Pittsburgh 8 Pa	8
Minneapolis Honeywell Heiland Div	
5200 E Evans Ave Denver 22 Colo	21
Miskella Infra-Red Co	
E 75 & Grand Ave Cleveland 4 Ohio	6
Mole-Richardson Co	
937 N Sycamore Ave	
Hollywood 38 Calif	1-11-12-18-21
Motoresearch Co	
1600 Junction Ave Racine Wis	23
National Carbon Co	
Div Union Carbide & Carbon Corp	
30 E 42 St New York 17 NY	14
National Cle Equipment Inc	
209 W 48 St New York 36 NY	1
Natural Lighting Corp	
612 E Elk Ave Glendale 4 Calif	8-10-11
New York Mfg & General Supply Co	
10-38 Jackson Ave	
Long Island City 1 NY	7-13-14
Nisard Div Inc	
Easthampton Mass	8
Norco Products Mfg Co	
392 Bleeker St	
New York 14 NY	2-6-7-8-12-13-15-16-18-21
North American Electric Lamp Co	
1520 N 13 St St Louis 6 Mo	6-20
Northeast Electronics Corp	
Airport Rd Concord NH	25
NVT Electronics Inc	
2978 N Ontario St Burbank Calif	4

Opad Electric Co
69 Murray St New York 7 NY 19-23-25

Oxford Elec Corp
3911 S Michigan Ave Chicago 15 Ill 9

Pantek Co
P O Box 212 El Segundo Calif 25

Parker Metal Goods Co
85 Prescott St Worcester 8 Mass 16

Permonite Mfg Co
444 Lake Shore Dr Chicago 11 Ill 14

Pechel Electronics Inc
13 Garden St New Rochelle NY 23

Pioneer Gen-E-Motor Corp
5841 W Dickens Ave Chicago 39 Ill 8-23

Plasteck Inc
P O Box 551 Poteau Okla 14

Radiant Lamp Corp
300 Jelliff Ave Newark 8 NJ 6-15-18-21

Radio Corp of America
Commercial Electronic Products
Front & Cooper Sts
Camden NJ 10-11-15-21-24-26

Radio Eng'g Co
8 State St New York 4 NY 26

Rayco Electronic Mfg Inc
11116 Cumpston St N Hollywood Calif 1

Republic Aviation Corp
Farmingdale LI NY 22-23

Richardson-Allen Corp
116-15 16 Ave College Point 56 NY 23

Rodale Mfg Co
5 & Minor Sts Emmaus Pa 15-19

Rostan Corp
5660 59 St Maaspath 78 NY 10

Safe Lighting Inc
527 Lexington Ave New York 17 NY 8

Saratoga Industries
Congress & Halliston Aves
Saratoga Springs NY 23

Sel Res Corp
75 River Rd Nutley 10 NJ 23

Shannon Lumino Materials Co
7356 Santa Monica Blvd
Hollywood 48 Calif 7-13

Sheppard Co R H
101 Philadelphia St Hanover Pa 23

Sigalite Inc
37 Neptune Hwy Neptune NJ 17

Soderberg Mfg Co
628 S Palm Ave
Alhambra Calif 15-16-17-18-20-21

S O S Cinema Supply Corp
602 W 58 St
New York 19 NY 1-4-5-8-11-12-15-18-21-22-23-24

Specialties Inc
Skunks Misery Rd Syosset LI NY 22

Stamford Metal Specialty Co
427 W Broadway New York 12 NY 16-18-21

Standard Electric Time Co
89 Logan St Springfield 2 Mass 8

Stewart & Stevenson Service
4516 Harrisburgh Blvd Houston 1 Texas 8

Stratford Corp
44 W 28 St New York 1 NY 4

Strat-O-Seal Mfg Co
3039 W Fullerton Ave Chicago 47 Ill 7

Stroblite Co
75 W 45 St New York 36 NY 13

Strong Electric Corp
87 City Park Ave Toledo 1 Ohio 12-15-21-23

Superior Electric Co
83 Laurel St Bristol Conn 4-23

Sylvania Electric Products
60 Boston St
Salem Mass 1-2-6-7-10-11-15-16-18-20-21-23

Temco Aircraft Corp
P O Box 6191 Dallas 2 Texas 13

Terado Co
1068 Raymond Ave St Paul 14 Minn 8-16

Terris Div Consolidated Siphon Supply Co
22 Womser St New York 13 NY 24

Torwico Electronics Inc
1090 Morris Ave Union NJ 8

Touch-Plate Mfg Corp
P O Box 1970 Long Beach 1 Calif 3

Tricraft Products Corp
1124 W Newport Ave Chicago 22 Ill 1

Tung-Sol Electric Inc
85 E Ave Newark 4 NJ 14-18

TV Specialty Co
860 W 31 St New York 1 NY 11-15-24

UAC Electronics Div
Universal Transistor Prods Corp
60 Bond St Westbury LI NY 23

Ucinite Co Div United-Carr Fastener Corp
459 Waterstown St
Newtonville 60 Mass 17-19

Ultra-Violet Products Inc
5114 Walnut Grove Ave
San Gabriel Calif 15-17

Universal Transistor Products Corp
36 Sylvester St Westbury LI NY 23

U S Radium Corp
Morriatown NJ 8-20

Varo Mfg Co
2201 Walnut St Garland Texas 23

Verd-A-Ray Corp
618 Front St
Toledo 6 Ohio 1-2-6-7-15-16-18-21

Vickers Inc Electric Products Div
1887 Locust St St Louis 8 Mo 3-4-9

Wappler Inc
27-10 Astoria Blvd Long Island City 2 NY 7

Ward Leonard Electric Co
548 Vernon NY 4

Western Gear Corp Electro Products Div
132 W Colorado St Pasadena 1 Calif 26

Westinghouse Electric Corp
P O Box 882 Pittsburgh 30 Pa 15-16-18

Weston Electrical Instrument Corp
614 Frelinghuysen Ave Newark 12 NJ 22

Wincharger Corp
E 7 & Division St Sioux City 2 Iowa 23

Wintur Turbine Co
E Market St & PRRW
West Chester Pa 10

36--MAGNETICS

Alloys, high permeability 1
Amplifiers, magnetic 2
Clutches, magnetic 3
Ironoxides, magnetic 4
Magnesium 5
Magnetostriktion 6
Magnets, electro 7
Magnets, permanent 8
Metals, powdered 9
Permeameters, high H 10
Permeameters, R-F 11
Steel, electric 12

AC Electronics Div GMC
1925 E Kenilworth Pl Milwaukee 1 Wis 3

Acme Electric Corp
Water St Cuba NY 2

Acoustica Associates
26 Windsor Ave Mineola NY 6

Actuator Prods Corp
Main St Box 172 W Concord Mass 3

Adler Electronics Inc
1 Levee Lane New Rochelle NY 2

Advance Industries Inc
640 Memorial Dr Cambridge 39 Mass 2-7

Aerophysics Dev Corp Sub
Curtiss-Wright Corp P O Box 689
Santa Barbara Calif 2-7-8

Aerovox Corp Pacific Coast Div
2724 S Park Rd Monrovia Calif 2

Aerovox Corp
740 Bellville Ave
New Bedford Mass 2-8-9-31-35-37-38-40

Airpex Products Co Seminole Div
City of Plantation Ft Lauderdale Fla 2

AIRResearch Mfg Co Div Garrett Corp
9851 Sepulveda Blvd Los Angeles 45 Calif 2

Airtronics Inc
5522 Darsey Lane Bethesda Md 2

Airtron Inc
1108 W Elizabeth Ave Linden NJ 2

Alden Products Co
12358 N Main St Brockton 64 Mass 36-37

Allegheny Ludlum Steel Corp
Oliver Bldg Pittsburgh 22 Pa 1-12

Allied Control Co
2 East End Ave New York 21 NY 7

Allis Co Louis
427 E Stewart St Milwaukee 1 Wis 2

American Electronics Inc
655 W Washington Blvd
Los Angeles 16 Calif 2-3

American Gyro Corp
3030 Nebraska Ave Santa Monica Calif 2

American Rectifier Corp
98 Lafayette St New York 18 NY 2

American Research & Mfg Corp
920 Halpine Ave Rockville Md 2

American Silver Co
3607 Prince St Flushing 84 NY 1-12

Amplex Div Chrysler Corp
P O Box 2718 Detroit 31 Mich 9

Annis Co R B
1101 N Delaware St Indianapolis 2 Ind 7

Antara Chemicals
Div General Aniline & Film Corp
435 Hudson St New York 14 NY 9

Armo Steel Corp
703 Curtis St Middletown Ohio 1-12

Arnold Eng Co
P O Box G 8-27-29-30-32-33-34-36-37

Arrow Tool Co Inc
88 Mill St Wethersfield Conn 8

Atlas Coil Corp
63 Main St Ansonia Conn 8

Atlas Eng Co
176 Blue Hill Ave Roxbury Mass 2

Automation Instruments Inc
Industrial Pk Boulder Colo 7

Autotronics Inc
Et 1 Box 82 Florissant Mo 3

Axion Div ACF Industries Inc
11 Park Pl Paramus NJ 36-37

Beckman/Berkeley Div Beckman Instruments Inc
2200 Wright Ave Richmond 3 Calif 7

Beckman/Helipot Corp
Newport Beach Calif 3

Belmont Smelting & Refining Works
330 Belmont Ave Brooklyn 7 NY 5-9

Bendix Aviation Corp Pioneer-Central Div
2784 Hickory Grove Rd Davenport Iowa 6

Bethlehem Steel Co
Bethlehem Pa 12

Blackburn Electronic Corp
65 W 7 St Wyoming Pa 2

Boze Electric Mfg Co
52 Inwa Ave Paterson 8 NJ 2

Bram Metallurgical Chemical Div
820 65 Ave Philadelphia 26 PA 1-9

Burroughs Corp Electronic Instruments Div
1209 Vine St Philadelphia 7 Pa 2

Calif Magnetic Control Corp
11922 Valerio St N
Hollywood Calif 2

Cambridge Thermionic Corp
445 Concord Ave Cambridge 38 Mass 34-35

Cannon-Muskegon Corp
Box 506 Muskegon Mich 1

Carpenter Steel Co
Front & Bern Sts Reading Pa 1-4-12

Cedar Eng'g Inc
5806 W 88 St Minneapolis 16 Minn 2

CFI.CO Constantine Eng'g Labs Co
P O Box 555 Mahwah NJ 2

Cinema Eng'g Div Aerovox Corp
1100 Chestnut St Burbank Calif 2

City Chemical Corp
132 W 22 St New York 11 NY 9

Collins Radio Co
855 35 St N E Cedar Rapids Iowa 31-34-35-37

Columbian Carbon Co Mapico Color Unit
380 Madison Ave New York 17 NY 1

Communication Accessories Co
U S 50 Hwy Lees Summit Mo 2

Conair - San Diego
P O Box 1950 San Diego 12 Calif 2

Conk Electric Co
2700 Southport Ave Chicago 14 Ill 7

Cosser Canada Ltd
301 Windsor St
Halifax Nova Scotia Canada 7

Crucible Steel Co of America
P O Box 2518 Pittsburgh 30 Penna 1-7-8-12

Cunningham Son & Co James
33 Litchfield St Rochester 8 NY 7

Custom Components Inc
P O Box 248 Caldwell NJ 32-34-35-37

Cycle Transformer Corp
855 Glenwood Ave E Orange 11 NJ 2

Dial Products Co
9 Ave E Bayonne NJ 2-7

Diamonite Products Mfg Co
1232 Cleveland Ave NW Canton Ohio 25

Du-Co Ceramics Co
Box 278 Saxonburg Pa 25

Duramic Products Inc
262 Mott St New York 12 NY 24

Dx Radio Products Co
2300 W Armistage Ave Chicago 47 Ill 33

Dynamic Instrument Corp
59 New York Ave Westbury NY 3

Dynamics Research Associates
Div Universal Match Corp
P O Box 5841 Ferguson 21 Mo 2

Dynatron Inc
717 W Amelia Ave Orlando Fla 2

Eclipsa-Pioneer Div
Benlix Aviation Corp Teterboro NJ 2-3

Edison Industries Thomas A Instrument Div
McGraw-Edison Co 5 Lakeside Ave
W Orange NJ 7

Electronic Mechanisms Inc
99 Haddam Conn 2-3

Electronic Specialty Co
158 11 St San Francisco 3 Calif 33

Electro-Mechanical Div General Riveters Inc
785 Hertel Ave Buffalo 7 NY 3

Electronic Associates Inc
Long Branch NJ 31-32

Electronic Production & Development
138 Nevada St El Segundo Calif 2

Engelhard Ind Inc Amer Platinum & Silver Div
231 N J RR Ave Newark NJ 9

Engineered Magnetics
Div Gulton Industries Inc
18030 Cerise Ave Hawthorne Calif 7

Feedback Controls Inc
899 Main St Waltham 84 Mass 2

Ferranti Electric Inc
30 Rockefeller Plaza New York 20 NY 4

Ferroxcube Corp of America
35 E Bridge St Saugerties NY 27-30-31-32-40

Footle Mineral Co
18 W Chelton Ave Phila 44 Pa 4

Freed Transformer Co
171A-36 Weirfield St Brooklyn 27 NY 2

Fugle-Miller Labs Inc
301 Central Ave Clark NJ 7

Garrett Corp Alresearch Mfg Co Div
9851 Sepulveda Blvd Los Angeles 45 Calif 2

Geartronics Corp
52 Nashua St Woburn Mass 3

General Ceramics Corp
Crowns Mill Rd 27-28-30-31-35-37-38-40

General Controls Co
401 Allen Ave Glendale 1 Calif 2

General Electric Co
Box 237 Roosevelt Park Annex
Detroit 32 Mich 8

General Electric Co Magnetic Materials Sec
7800 N Jeff Rd Edmore Mich 8

General Electric Co
Specialty Electronic Component Dept
W Genesee St Auburn NY 27-31-37-40

General Electric Co
Apparatus Sls Div
1 River Rd Schenectady 5 NY 2

General Magnetic Corp
10001 Erwin Ave Detroit 34 Mich 9

General Magnetic Inc
135 Bloomfield Ave Bloomfield NJ 2

Geotronic Labs Inc
1314 Cedar Hill Ave Dallas 8 Texas 2

Gerst & Co Paul E
4868 N Clark St Chicago 40 Ill 2

Gibson Electric Co
Box 553 Delmont Pa 4-8

G-L Electronics Co
2921 Admiral Wilson Blvd
Camden 8 NJ 32-36-37

Goslin Electric & Mfg Co 2921 W Olive Ave Burbank Calif	2	National Electronics Labs Inc 1713 Kalamara Rd NW Washington 9 DC 11	Technical Oil Tool Corp 1057 N La Brea Los Angeles 38 Calif	3
Gullin Industries Inc 212 Durham Ave Metuchen NJ	2	National Moldite Co 250 South St Newark NJ	Telephoto Industries Corp 35-18 37 St Long Island City 1 NY	2
Haller Raymond & Brown Circleville Rd State College Pa	2	National-U S Radiator Corp 342 Madison Ave New York NY	Telegraph Construction & Maintenance Co Ltd Mercury House Theobalds Rd 1-6-9-12-27-29 London W C 1 England	30-32-33-36-37-38
Hamilton Watch Co Allied Products Div Columbia Ave Lancaster Pa	1-8	Naybor Laboratories Inc E V 26 Manorhaven Blvd Fort Washington NY	Telemeter Magnetics Inc 2245 Pontius Ave Los Angeles 64 Calif	31-36-37-40
Handy & Harman 82 Fulton St New York 38 NY	1	Networks Electronics Corp 14806 Oxnard St Van Nuys Calif	Thermal Refractories Corp 4501 Dell Ave N Bergen NJ	29
Harris Transducer Corp Box 247 Woodbury Conn	6	Norrlich Plastics Corp 107 W 18 St New York 16 NY	Thermo Materials Inc 4040 Campbell Ave Menlo Park Calif	21
Hydur Div Int'l Resistance Co 12870 Bradley Ave Sylmar Calif	3	Norton Co 1 New Bond St Worcester 6 Mass	Thomas & Skinner Inc 1120 E 23 St Indianapolis 7 Ind	1-8-12-27-29-30-32-33-36-37-38
Indiana Steel Products Co 405 Elm St Valparaiso Ind	8-27-36	Ortho Filter Corp 196 Albion Ave Paterson 2 NJ	Thompson Inc A J Rt 1 Box 812 Florissant Mn	3
Indicator Eng'g Inc 117 Schley Ave Lewes Dela	2	Packard Bell Electronics Corp 12338 W Olympic Blvd Los Angeles 64 Calif	Thor Ceramics Inc 225 Belleville Ave Bloomfield NJ	28
Industrial Control Co 805 Albin Ave Lindenhurst LI NY	2	Penn-East Eng'g Corp Box 240 Kutztown Penna	Top Industries Inc 5907 Wilshire Blvd Beverly Hills Calif	28
Insulating Fabricators Inc 150 Union Ave E Rutherford NJ	3	Penn Precision Products Inc 501 Crescent Ave Reading Pa	Torotol Inc 5612 E 110 St Kansas City 34 Mo	2
International Powder Metallurgy Co 439 W Main St Ridgeway Pa	33	Perfection Mica Co 1322 N Elston Ave Chicago 22 Ill	Torwico Electronics Inc 1090 Morris Ave Union NJ	2
International Resistance Co 401 N Broad St Philadelphia 8 Pa	2-3	Permag Corp 214 Taaffe Pl Brooklyn 5 NY	Transformers Inc 200 Stage Rd Vestal NY	2
Isolantite Mfg Corp Warren Ave Stirling NJ	28	Permoflux Products Co 4101 San Fernando Rd Glendale 4 Calif	Transonic Inc 808 16 St Bakersfield Calif	2
Johnson Aircraft Eng'g Co M J Moriastown Airport Box 10 Morristown NJ	7	Piezo Products Co Whitney St Sherborn Mass	United Mineral & Chemical Corp 16 Hudson St New York 13 NY	24
Johnson Electronics Inc P O Box 1676 Hwy 17-92 Caselberry Fla	2	Polymer Corp 2120 Fairmont Ave Reading Pa	United Transformer Corp 150 Varick St New York 13 NY	2
Kelsey-Hayes Co 3600 Military Ave Detroit 32 Mich	1-12	Polyphase Instrument Co E 4 St Bridgeport Pa	U S Graphite Co Div Wickes Corp 1621 Holland Ave Saginaw Mich	9
Keystone Carbon Co 1835 State St St Marys Pa	9	Power Transformer Co 91 Edison Pl Newark 5 NJ	Vacuum Metals Grp Div Crucible Steel Co P O Box 977 Syracuse 1 NY	1
Keystone Products Co 904-6 23rd St Union City NJ	2	Precision Paper Tube Co 2035 W Charleston St Chicago 47 Ill	Varian Associates 611 Hansen Way Palo Alto Calif	7
Kirchberger & Co M 83-91 W Forest Ave Englewood NJ	28	Quality Components Inc St Marys Pa	Vari-L Co 432 Fairfield Ave Stamford Conn	2
Kollman Instrument Corp Standard Coil Products Sub 80-08 45 Ave Elmhurst 78 NY	2	Radio Condenser Co Davin & Copewood Sts Camden 3 NJ	Vero Mfg Co 2201 Walnut St Garland Texas	2-3
Krytinel Corp Fox Island Rd Port Chester NY	31-35-37-39-40	Radio Cores Inc 9540 S Tulley Ave Oak Lawn Ill	Vickers Inc Electric Products Div 1887 Locust St St Louis 3 Mo	2
Kulite Tungsten Co 1040 Hoyt Ave Ridgefield NJ	1-9	Radio Corp of America Commercial Electronic Products Front & Cooper Sts Camden NJ	Waco Inc 2032 Broadway Santa Monica Calif	7
Langevin Mfg Corp 47-37 Austell Pl Long Island City 1 NY	2	Radio Corp of America Electron Tube Div Harrison NJ	Waltham Screw Co 77 Rumford Ave Waltham 54 Mass	35
Lapp Insulator Co Radio Specialties Div 318 Gilbert St Le Roy NY	28	Rayco Electronic Mfg Inc 11116 Cumpston St N Hollywood Calif	West Coast Research Corp 2371 W Westwood Blvd Los Angeles 64 Calif	2
Leach Corp-Inet Div 14335 Susana Rd Compton Calif	2	Raytheon Mfg Co 100 River St Waltham 54 Mass	Westcoast Coil Products Co 965 Commercial St Palo Alto Calif	7
Lear Inc 171 S Bundy Dr Santa Monica Calif	2-3	Rea Co J H 1723 Cloverfield Blvd Santa Monica Calif	Western Cold & Platinum Co 25 Harbor Blvd Belmont Calif	28
Leland Electrical Co Aircraft Products Plant 740 E National Rd Vandalia Ohio	2	Reed & Reese Inc 717 N Lake Ave Pasadena 6 Calif	Westinghouse Electric Co Div Air Div P O Box 746 Friendship Intl A P Baltimore Md	2
Lindly & Co 248 Herricks Rd Mineola NY	3	Reeves Instrument Corp Roosevelt Field Garden City NY	Westinghouse Electric Corp P O Box 368 Pittsburgh 30 Pa	1-2-7-8-9-27-29-30-32-33-36-37-38
Lindlar Inc 4101 San Fernando Rd Glendale 4 Calif	2	Republic Aviation Corp Farmingdale LI New York	Wickes Eng'g & Construction Co 12 St & Ferry Ave Camden 4 NJ	2
Liton Industries of Md Inc 4910 Calvert Rd College Park Md	2	Rich Electronics Inc 212 NW 8 Ave Miami 36 Fla	Wiewand Mfg Co 120 E Hawthorne Ave Valley Stream NY	2
Lux Clock Mfg Co Johnson St Waterbury Conn	9	Richardson Labs Kenneth 254 Vincent Ave Lynbrook NY	Williams & Co C K 640 N 13 St Easton Pa	4-9
Macarr Inc 2543 Boston Rd New York 67 NY	2	Risco 265 Minna St San Francisco 3 Calif	Yale & Towne Powdered Metal Prods Div 9335 W Belmont Ave Franklin Park Ill	7-8
Magnaflex Corp 7300 W Lawrence Ave Chicago 31 Ill	10	Riverside-Alloy Metal Div Porter Co H K 1 Pavilion Ave Riverside NJ		
Magnetic Corp 11785 W Olympic Blvd W Los Angeles 64 Calif	1	Rizon Electronics Inc 2414 Reddie Dr Silver Spring Md		
Magnetic Circuit Elements Inc 3722 Park Pl Montrose Calif	2	Sag Harbor Industries Box N Sag Harbor NY		
Magnetic Controls Co 6403 Cambridge St Minneapolis 16 Minn	2	Sagamco Electric Co 1207 N 11th St Springfield Ill		
Magnetic Core Corp John & Lawrence Sts P O Box 368 Newburg NY	31-32-34-35-37	Saratoga Industries Congress & Ballston Aves Saratoga Springs NY		
Magnetic Inc Box 391 Butler Pa	1-32-34-36-37	Scientific Eng'g Lab 2436 Sacramento St Berkeley Calif		
Magnetic Instrument Co 546 Commerce St Thornwood NY	2	Servotronics Inc 822 N Henry St Alexandria Va		
Magnetic Metals Co Hayes Ave & 21 St Camden 1 NJ	32-38-36	Servomechanisms Inc 12500 Aviation Blvd Hawthorne Calif		
Magnetic Powders Inc P O Box 247 Johnsonburg Pa	9	Shrader Co F W 11623 S Broadway Los Angeles 61 Calif		
Magnetic Research Corp 3160 W El Segundo Blvd Hawthorne Calif	2	Sigma Instruments Inc 170 Pearl St & Braintree Mass		
Magnetics Research Co 255 Grove St White Plains NY	2	Sigmadsyne of Conn P O Box 869 Port Chester NY		
Mastrol Inc 240 Seneca St	2	Southwestern Industrial Electronics Co 2831 Post Oak Rd Houston 19 Texas		
Mallinckrodt Chemical Works 9 & Mallinckrodt Sts St Louis 7 Mo	39	Stackpole Carbon Co St Marys Pa	4-9-29-30-31-34-38	
Maryland Lava Co Box 205 Belair Md	28	Standard Electromagnetics Inc 43-45 Carroll St Frederick Md	2	
Mason Corp W L 475 10 Ave New York 18 NY	2	Stearns Magnetic Products 635 S 28 St Milwaukee 46 Wis	7-8	
Mason Instruments Div W I. Mason Corp 47-37 Austell Pl Long Island City 1 NY	2	Stevens Products Inc 88 Main St E Orange NJ	38	
Milwaukee Transformer Co 5231 N Hopkins St Milwaukee 12 Wis	2	Steward Mfg Co D M Chattanooga Tenn	4-8-27-29-30-31-32-37-38-40	
Minn-Honeywell Boston Div 1400 Soldiers Field Rd Boston 35 Mass	2	Stone Paper Tube Co Div Stone Straw Corp 900 Franklin St N E Washington 17 DC	38	
Minn-Honeywell Regulator Co Aeronautical Div 2600 Ridgway Ave Minneapolis 18 Minn	33	Summit Electronic Products 14706 Arminta St Van Nuys Calif	2	
Minn-Honeywell Regulator Co Rubicon Instruments Ridge Ave at 35 St Philadelphia 32 Pa	10	Suprex Electronics Corp 88 Marbledale Rd Tuckahoe NY	31-40	
Modern Industries Inc 2801 Colorado Ave Santa Monica Calif	2	Superior Steatite & Ceramic Corp 83-91 W Forest St Englewood NJ	28	
Moloney Electric Co 5380 Birch Rd St Louis 20 Mo	27-29-30	Sylvania Electric Products 60 Roston St Salem Mass	7	
Monaghan Co J J 500 Alcott St Denver 4 Colo	7	Technical Development Co 305 S Chester Pk Glenolden Pa	7-8	
National Aircraft Corp Electronics Div 3411 Tulare Ave Burbank Calif	2			

37—MEASUREMENT & TEST EQUIPMENT—BRIDGES

Bridges, capacitance	1
Bridges, conductivity	2
Bridges, electrical	3
Bridges, impedance	4
Bridges, inductance	5
Bridges, megohm	6
Bridges, resistance	7
Bridges, R-F	8
Bridges, self balancing	9
Bridges, standing wave	10
Bridges, synchro	11
Bridges, temperature	12
Bridges, thermistor	13
Bridges, VHF	14
Bridges, Wein	15
Bridges, wheatstone	16

Advanced Instruments 45 Kenneth St Newton Highlands 61 Mass	12-13
Aerovox Corp 240 Belleville Ave New Bedford Mass	1
Alloyway Instrument Co 1091 Wills Mountain Cumberland Md	7-16
Arnoux Corp 11924 W Washington Blvd Los Angeles 68 Calif	12
Associated Research Inc 577 W Belmont Ave Chicago 18 Ill	7-6-7
Bach-Simpson Ltd 1255 Brydges St London Ont Canada	1-2-3-4-5-6-7

Barker & Williamson Inc
Canal & Beaver Se Bristol Pa 4-8
Barnes Development Co
213 W Baltimore Ave
Lanadowne Pa 1-3-4-6-7-9-16
Barnett Instrument Co
Kraft St Clarksville Tenn 1-7
Bendix Aviation Corp Cincinnati Div
3130 Wasson Rd Cincinnati 8 Ohio 6
Bergen Labs
247 Crooka Ave Clifton NJ 16
B & F Instruments Inc
4732 N Broad St Philadelphia 41 Pa 7-9
Biddle Co James G
1816 Arch St Philadelphia 7 Pa 6
Boonton Electronics Corp
738 Speedwell Ave Morris Plains NJ 1
Boonton Radio Corp
Intervale Rd Boonton NJ 4-8-14
Bristol Co
P O Box 1790 El 1-2-3-4-5-6-7-8-9-12-16
Waterbury Conn 7-9-12-16
Browning Labs Inc
750 Main St Winchester Mass 10
Bruno-New York Industries Corp
460 W 34 St New York 1 NY 8-13
Brunswick Instruments
P O Box 813 New Brunswick NJ 7-9
Calif Technical Industries Div Textron Inc
1421 Old County Rd Belmont 10 Calif 10
Cal-Ohm Labs Inc
Broadway & Adams St 1-2-3-4-5-6-7-8-9-12-13-15-16
Sterling Kansas 9-12-13-15-16
Cambridge Instrument Co
Grand Central Terminal
New York 17 NY 1-2-3-5-7-16
Cardinal Instrumentation Corp
4201 Redwood Ave Los Angeles 66 Calif 12
Central Scientific Co of Calif
1040 Martin Ave Santa Clara Calif 2-16
Chicago Industrial Instrument Co
865 N Sangamon St
Chicago 22 Ill 1-3-4-5-6-7-12
Cinema-Television Ltd
Worsley Bridge Rd Lower Sydenham
London SE 26 England 1-3-4-5-7
Clegg Labs Div Clegg Inc
Ridgeway Ave Morristown NJ 4-7-16
Clough-Brengle Co
6014 Broadway Chicago 40 Ill 1-4-5-7
Coast Coil Co
5383 W Washington Blvd
Los Angeles Calif 3
Consolidated Avionics Corp
800 Shames Dr Westbury NY 1-7
Cornell-Dubilier Electric Corp
353 Hamilton Blvd S Plainfield NJ 13
Crescent Eng'g & Research Co
5440 N Peck Ed El Monte Calif 6-16
Cunningham Son & Co James
33 Litchfield St
Rochester 8 NY 1-3-4-5-6-7-15-16
Curtiss-Wright Corp
631 Central Ave Carlstadt NJ 6-7
Dallons Labs
5066 Santa Monica Blvd
Los Angeles 29 Calif 13
Datascan Inc
48 Notch Rd Little Falls NJ 1-12
Datron Electronics
1836 Rosecrans Ave
Manhattan Beach Calif 7-9
Daven Co
Route 10 Livingston NJ 3-4-5-6-7-8-15-16
Davenport Mfg Co
1718 N Ashland Ave
Chicago 22 Ill 2-3-6-7-12
Daystrom Instrument Div Daystrom Inc
Archhald Pa 1
Delttron Inc
2906 N Leithgow St Philadelphia 33 Pa 1-7
Dynamic Development Co
59 New York Ave Westbury NY 9-12-16
Dynamic Instrument Corp
59 New York Ave Westbury NY 3-12-16
Electro Impulse Lab Inc
208 River St Red Bank NJ 13
Electro-Measurements Inc
7624 S W Macadam Ave
Portland Ore 1-2-3-4-5-6-7-11-16
Ellis Associates
67 Lincoln Ave Pelham NY 7
Elm Labs
10 Washington Ave
Hastings-on-Hudson NY 1-15
Eppley Lab Inc
12 Sheffield Ave Newport RI 12-16
Erdco Eng'g Corp
Official & Westgate Addison Ill 1
Foxboro Co
Neponset Ave Foxboro Mass 12
Freed Transformer Co
1718-36 Weirfield St Brooklyn 27 NY 1-3-5
F.R. Machine Works Inc
Electronic & X-Ray Div 26-12 Borough Pl
Woodside 77 NY 4-8-9-10-13
Furzehill Labs Ltd
57 Clarendon Rd Watford England 5
General Communication Co
677 Beacon St Boston 15 Mass 13
General Electric Co
Apparatus Sls Div
1 River Rd Schenectady 5 NY 3-7
General Metal Products Co
1010 Centre St Easton Pa 7
General Radio Co
275 Massachusetts Ave
Cambridge 39 Mass 1-2-3-4-5-6-7-8-14-16
Gertsch Products Inc
3211 La Cienega Blvd
Los Angeles 25 Calif 3-4-16

Goodyear Aircraft Corp
1210 Massillon Rd Akron 15 Ohio 7
Gray Instrument Co
200 E Church Lane
Philadelphia 44 Pa 7-11-12-16
Gulton Industries Inc
212 Durham Ave Metuchen NJ 1
Hagan Chemicals & Controls Inc
343 1 Ave Pittsburgh 30 Pa 7-9-12-16
Hallamore Electronics Co
8352 Brookhurst Ave Anaheim Calif 4
Harris Transducer Corp
Box 247 Woodbury Conn 4
Heath Co
305 Territorial Rd
Benton Harbor Mich 1-2-3-4-5-7-10-16
Hewlett-Packard Co
275 Page Mill Rd Palo Alto Calif 4
Hickok Electrical Instrument Co
10514 Dupont Ave
Cleveland 20 Ohio 1-3-5-6-7-8
Holland Electronics
772 E 53 St Brooklyn NY 13
Indikon Co
76 Coolidge Hill Rd Watertown 72 Mass 1
Industrial Control Co
805 Albin Ave Lindenhurst LI NY 1
Industrial Development Labs Inc
17 Pollock Ave Jersey City 5 NJ 1-7-13
Industrial Electronics Inc
8060 Wheeler St Detroit 10 Mich 3-5-7
Industrial Instruments Inc
89 Commerce Rd
Cedar Grove NJ 1-2-3-4-6-7-16
Ind Test Equip Co
55 E 11th St New York 3 NY 1-3-4-5-7-11
Industrial Transformer Corp
Gouldsboro Pa 5
International Telephone & Telegraph Corp
Industrial Products Div 250 Garibaldi Ave
Lodi NJ 1-3-4-5-6-7-8-16
Jenson Aircraft Eng'g Co
Geophysical Services Div P O Box 10
Morristown NJ 3-7-16
Julie Research Labs
556 W 168 St New York 32 NY 7-11-16
Kahn & Co
541 Windsor St Hartford 1 Conn 7-16
Keystone Carbon Co
1935 State St St Marys Pa 13
Kinetics Corp
410 S Cedros Ave Solomon Beach Calif 7
Leeds & Northrup Co
4970 Stenton Ave
Philadelphia 44 Pa 1-2-3-4-5-6-7-9-12-16
Lehigh Valley Electronics Eng'g & Mfg Co
215 5 1 St Allentown Pa 4-12-13
MacLeod & Hanopol
10 Roland St Charlestown 29 Mass 1
Magnavox Corp
2131 Bueter Rd Ft Wayne 4 Ind 1
Magnetic Controls Co
6403 Cambridge St
Minneapolis 15 Minn 7-9-12
Magnetic Instrument Co
546 Commerce St Thornwood NY 3-13
Marconi Instruments Ltd
111 Cedar Lane
Englewood NJ 1-2-4-5-6-7-8-14
Measurement Eng'g Ltd
232 John St Arnprior Ontario Can 12
Metronix Inc
75 Wilson Mills Rd
Chesterland Ohio 1-4-5-7
Millen Mfg Co James
150 Exchange St Malden 48 Mass 4-8-10
Millitest Co
88 Madison Ave Hempstead NY 7
Minn-Honeywell Regulator Co Instruments Div
Wayne & Windrim Aves
Philadelphia 44 Pa 3-7-16
Minn-Honeywell Regulator Co
Rubicon Instruments
Ridge Ave at 35 St
Philadelphia 32 Pa 7-11-12-16
Mudri Eng'g & Mfg Inc
50 Frederick St
Huntington Ind 1-3-4-5-8
Moran Instrument Corp
170 E Orange Grove Ave Pasadena 3 Calif 9
Muirhead Instruments Inc
677 5 Ave New York 22 NY 1-4-5-7-16
Narda Microwave Corp
118-160 Herricks Rd Mineola NY 4
National Instrument Labs Inc
6104 Rhode Island Ave Riverdale Md 12
Nevada Air Products Co
P O Box 2472 Reno Nev 1-3-4-5-7
Non-Linear Systems Penna
Del Mar Airport Del Mar Calif 3-7-9-16
Northeast Electronics Corp
Airport Rd Concord NH 4-10
Paco Electronics Co Inc
70-31 84th St Glendale 27 LI NY 1
Penn-East Eng'g Corp
Box 240 Kutztown Penna 3-5
Phoenix Precision Instrument Co
3803 N 5 St Philadelphia 40 Pa 9
Physics Research Labs Inc
P O Box 555 Hempstead NY 6-7-16
Polarad Electronics Corp
43-20 34 St Long Island City 1 NY 9-13
Polytechnic Research & Development Co
202 Tillary St Brooklyn 1 NY 10-13
Precision Measurements Corp
RD 1 Millbrook Rd Flemington NJ 6
Precision Apparatus Co
70-31 84 St Glendale 27 LI NY 1

Pye Canada Ltd
82 Northline Rd 1-2-3-4-5-6-7-8-12-14-15-16
Toronto 16 Ontario Canada
Pyrometer Instrument Co
92 Portland Ave Bergenfield NJ 12
Radex Corp
2056 Elston Ave Chicago 14 Ill 4
Radio City Products Co
Centre & Gladale Sta
Easton Pa 1-3-4-6-7-13-16
Reliance Mica Co
341-39 St Brooklyn 32 NY 1
Research Instrument Co
P O Box 9168 Montavilla Station
Portland 16 Ore 1-3-4-6-7-16
Rinco Inc
7962 S E Powell Blvd
Portland 6 Ore 1-4-5-6-7-16
Ruyco Instrumrnts
720 Arthur St Albany Calif 13
Ruyco Instruments N
874 Fabian Way Palo Alto Calif 12
Saratoga Industries
Congress & Ballston Aves
Saratoga Springs NY 5
Shalleross Mfg Co
Jackson & Pusey Aves
Collingdale Pa 3-6-7-16
Simmonds Aerocoessories Inc
105 White Plains Rd Tarrytown NY 1-9
Simmonds Aerocoessories Inc
Vergennes Vt 1-4-6-9-13-16
Southwestern Industrial Electronics Co
2831 Post Oak Rd Houston 19 Texas 1-3-6-7
Sperry Gyroscopic Co
Microwave Electronics Div
Great Neck NY 4-10-13
Sprague Electric Co
Marshall St North Adams Mass 1
Sun Electric Corp
Harlem & Avondale Ave Chicago 31 Ill 3-5
Tech Labs
Bergen & Edsall Blvd
Palisades Park NJ 1-3-4-5-6-7-16
Technical Oil Tool Corp
1057 N La Brea Los Angeles 38 Calif 8
Telectro Industries Corp
35-18 37 St Long Island City 1 NY 3-8-13
Telerad Mfg Corp
Route 68 Flemington NJ 13
Telerad Mfg Corp
1440 Broadway New York 18 NY 10
Theta Instrument Corp
48 Pine St E Paterson NJ 11
Transformers Inc
200 Stage Rd Vestal NY 5
Trumpf Dr Walter N
516 S Vermont Columbus Kan 6
United Audio Products Div
United Optical Mfg
202 E 19 St New York 3 NY 7-16
United Mineral & Chemical Corp
16 Hudson St New York 13 NY 1-2-4-5-6
U.S. Dynamics Corp
1250 Columbia Ave Boston 20 Mass 2
Voron & Co George
835 N 19 St
Philadelphia 30 Pa 1-4-5-6-7-15-16
Wayne-Kerr Inst
P O Box 401 Phila 5 Pa 1-2-3-4-5-6-7-8-14
West Instrument Corp
4363 W Montrose Ave Chicago 41 Ill 12
Weston Electrical Instrument Corp
614 Frelinghuysen Ave Newark 12 NJ 16
Weymouth Instrument Co
1440 Commercial St E Weymouth 89 Mass 16
Williamson Development Co
317 Main St W Concord Mass 3-13
Winalco Co
701 Lehigh Ave Union NJ 1-3-4-7-16

38—MEASUREMENT & TEST EQUIPMENT—COUNTERS

Counters, electromagnetic	1
Counters, electronic	2
Counters, events-per-unit time	3
Counters, frequency	4
Counters, gelger	5
Counters, impulse	6
Counters, mechanical	7
Counters, photoelectric	8
Counters, preset	9
Counters, radiation	10
Counters, revolution	11
Counters, scintillation	12
Counters, time-measuring	13

Abrams Instrument Corp
606 E Shawwassee St
Lansing 1 Mich 1-6-9
Advanced Products
59 Broadway North Haven Conn 13
Ad-Yu Electronics Lab Inc
249 Terhune Ave Passaic NJ 2-4-10
Aeromotive Eng'g Products Ltd
5257 Queen Mary Rd
Montreal Que Canada 1-2-4-4
Aeronca Mfg Corp
Middletown Ohio 2

Airmec Ltd					
High Wycombe	1-2-4-5-8				
Ruckinghamshire England	9-10-12-13				
Allyn Inc					
Welch Skaneateles Falls NY	5				
Aloe Scientific					
5655 Kingsbury Blvd St Louis 12 Mo	5-12				
Amerac Inc					
Dunham Rd Beverly Mass	7				
American Electronics Inc					
116 Tonsfield Rd Wenham Mass	11				
655 W Washington Blvd					
Los Angeles 15 Calif	2-5-9-10-12				
Anatron/Div Endeavor Corp					
45 W Union St Pasadena Calif	1-6-7-9				
Anton Electronic Labs					
1226 Flushing Ave Brooklyn 37 NY	5-10				
Arlin Products Inc					
1541 Auburn Ave Detroit 23 Mich	3-5-8-9				
Automatic Electric Co					
1033 W Van Buren St Chicago 7 Ill	1-6				
Automatic Timing & Controls Inc					
King of Prussia Pa	6-11				
Autron Eng Inc					
1254 W 6 St					
Los Angeles 17 Calif	1-6-7-8-9-11				
Haird-Atomic Inc					
33 University Rd	1-3-3-4-5-6-7-8				
Cambridge 3 Mass	9-10-11-12-13				
Harker & Williamson Inc					
Canal & Beaver Sts Bristol Pa	7-10				
Harkley & Dexter Laboratories					
50 Frankfort St Fitchburg Mass	1-8-9				
Basic Controls Co					
174 Westwood Blvd					
Los Angeles 24 Calif	2-8				
Beckman Berkeley Div Beckman					
Instrumenta Inc 2200 Wright Ave					
Richmond 3 Calif	2-3-4-5-8-9-10-11-12-13				
Beckman Helipot Corp					
Newport Beach Calif	11				
Beckman Instruments Inc Data & Control					
Systems Scientific Instrument Div					
325 N Muller Ave Anaheim Calif	2-3-4-9-13				
Bondix Aviation Corp Cincinnati Div					
4130 Wesson Rd Cincinnati 8 Ohio	2-9				
Biddle Co James G					
1315 Arch St Philadelphia 7 Pa	4				
Black Light Corp of America					
5114 Walnut Grove Ave San Gabriel Calif	12				
Bosch Mfg Co					
45 River St Danbury Conn	2-6-7				
Briggs Associates					
10 Bekalb St Norristown Pa	2				
Bristol Co					
P O Box 1790 El Waterbury Conn	3-11				
Buffalo Instrument Corp					
1780 Elmwood Ave Buffalo 7 NY	1				
Burroughs Corp Electronic Tube Div					
Box 1226 Plainfield NJ	2-3-9				
Burroughs Corp Electronic Instruments Div					
1209 Vine St Philadelphia 7 Pa	3				
Canadian Aviation Electronics Ltd					
6214 Cote de Liesse Rd					
St Laurent Quebec Canada	5-12				
Central Scientific Co of Calif					
1040 Martin Ave Santa Clara Calif	7				
Central Scientific Co of Canada Ltd					
146 Kendal Ave Toronto 4 Ont Canada	6				
Chatham Electronics Div Gera Corp					
W Mt Pleasant Ave Livingston NJ	12				
Cinema-Television Ltd					
Worsley Bridge Rd					
Lower Sydenham	2-3-4-6				
London SE 38 England	8-10-11-13				
Colorado Research Corp					
4697 E Evans Ave Denver 22 Colo	2				
Compton Corp					
778 Pleasant St Belmont 79 Mass	2				
Computer-Measurements Corp					
5224 Vineland Ave					
N Hollywood Calif	2-3-4-9-13				
Computing Devices of Canada Ltd					
P O Box 508 Ottawa Ontario Can	3-10				
Consolidated Avionics Corp					
800 Shames Dr Westbury NY	2-3-4-6-9-13				
Control Data Corp					
501 Park Ave Minneapolis 15 Minn	3				
Cunningham Sun & Co James					
33 Litchfield St Rochester 8 NY	1-3-7				
Cyclotron Specialties Co					
P O Box 1000 Moraga Calif	1				
Datasean Inc					
48 Notch Rd Little Falls NJ	5				
Davenport Mfg Co					
1713 N Ashland Ave					
Chicago 22 Ill	2-3-8-13				
De Flores Co					
116 E 80 St New York 16 NY	6-8-9				
Dejur-Amaco Corp Electronic Sales Div					
46-01 Northern Blvd					
Long Island City 1 NY	13				
Digital Equip Corp					
Maynard Mass	2-9				
Digitran Co					
45 W Union St Pasadena Calif	6-7-8-11				
Dittmore-Fremuth Corp					
2517 E Norwich St					
Milwaukee 7 Wis	7-11				
D & S Mfg Co					
424 Burk St Ridley Park Pa	8				
Dunlap Electronics					
764 9 St Des Moines 14 Iowa	3-4-8-13				
Dunn Eng'g Associates					
2250 O'Brien Hwy Cambridge 30 Mass	9				
Durant Mfg Co					
1946 N Buffum St Milwaukee 1 Wis	7-9				
Dynac Inc					
895 Page Mill Rd					
Palo Alto Calif	2-3-4-6-9-13				
Dynamic Electronics Inc					
73-29 Woodhaven Blvd Forest Hills NY	6-7				
Dynapor Corp					
5159 Church St Skokie Ill	2-3-4-8-9-13				
Dynatron Inc					
717 W Amelia Ave Orlando Fla	2				
Eagle Signal Corp					
202 20 St Moline Ill	9-11-13				
Eberline Instrument Div Reynolds Electrical					
405 Early St Santa Fe New Mexico	3-5-10-12				
Elec Inc					
P O Box 354 McLean Va	2				
Eldorado Electronics Co					
2821 10 St Berkeley 10 Calif	10-13				
Electro Instrument Inc					
Aero Ct San Diego Calif	2-6-7				
Electrical & Physical Instrument Corp					
42-19 27 St Long Island City 1 NY	1-6-10-12				
Electrical Service Co					
1271 Mission St San Francisco 3 Calif	2-8				
Electronic Instrument Co					
84 Withers St Brooklyn 11 NY	5				
Electronics Eng Co of Calif					
1601 E Chestnut St Santa Ana Calif	2-13				
Electronic Products Div Post Machinery					
140 Elliot St Beverly Mass	2-8				
Electronics Corp of America					
1 Memorial Dr Cambridge 42 Mass	2-8				
Electro-Pulse Inc					
11861 Teale St Culver City Calif	2-3-4-9				
Electro Vision Lab					
41-08 45th St Long Island City 1 NY	13				
El-Tronics Inc					
Penn Ave Mayfield Pa	5-6-10-12				
Engineered Electronics Co					
506 E 1 St Santa Ana Calif	2-9-13				
Epsco Inc					
588 Commonwealth Ave Boston 15 Mass	4				
Era Eng'g Inc					
1009 Montana Ave Santa Monica Calif	5-12				
Ernie Resistor Corp					
644 W 12 St Erie 6 Pa	2-3-4-6-9-11-13				
Essee Eng'g & Mfg Inc					
P O Box 665 Cambridge Calif	2-7-11-13				
Farnsworth Electronics Co Div IT&T					
3702 E Pontiac St Ft Wayne Ind	12				
Federal Equipment Co					
38 Irandy St San Francisco 3 Calif	8				
Firat Electronics Corp					
117 Blue Hill Ave Boston 19 Mass	13				
Fisher Research Lab					
1961 University Ave Palo Alto Calif	5-12				
Franklin Electronics Inc					
E 4th St Bridgeport Pa	2-12				
Freed Transformer Co					
1718-38 Weirfield St					
Brooklyn 27 NY	3-8-9-11				
Furzehill Labs Ltd					
57 Clarendon Rd Watford England	2				
Gatea Radio Co					
123 Hampshire St Quincy Ill	2-4				
Geartronics Corp					
52 Nashua St Woburn Mass	7-11				
General Controls Co					
801 Allen Ave Glendale 1 Calif	1-6-7-8-9-11				
General Electric Co					
Apparatus Sis Div					
1 River Rd Schenectady 5 NY	8				
General Electric Co X-Ray Dept					
4855 Electric Ave Milwaukee 1 Wis	12				
General Railway Signal Co					
P O Box 600 Rochester NY	2				
Gordon Enterprises					
5362 N Cahuenga Blvd					
Hollywood Calif	1-3-3-6-7-11-13				
Haller Raymond & Brown					
Crescentville Rd State College Pa	1-3-4-6-8				
Hamilton Watch Co Allied Products Div					
Columbia Ave Lancaster Pa	13				
Hamner Electronics Co					
P O Box 531 Princeton NJ	12				
Haydon Co A W					
232 N Elm St Waterbury 20 Conn	13				
Health Co					
305 Territorial Rd					
Benton Harbor Mich	5-10				
Hewlett-Packard Co					
275 Page Mill Rd					
Palo Alto Calif	2-3-4-6-8-10-13				
Hoffman Electronics Corp					
3751 S Hill St Los Angeles 7 Calif	5-10				
Hupp Electronics Co Div Hupp Corp					
743 Circle Ave Forest Park Ill	2-8				
Hupp Instrumentation Div Erie-Pacific					
12932 S Weber Way					
Hawthorne Calif	2-3-4-6-9-11-13				
I-L-S Instrument Corp					
4535 W 160 St Cleveland 11 Ohio	2-8-13				
Industrial Electronics Controls					
2271 E 14 St Brooklyn 29 NY	2-9				
Industrial Electronic Engineers					
3973 Lankershim Blvd					
N Hollywood Calif	6-9-13				
Industrial Research Labs					
Div Aeronca Mfg Corp					
Hilltop & Fredericks Rds					
Baltimore Md	2-3-4-7-8-13				
Industrial Timer Corp					
1407 McCarter Hwy Newark 4 NJ	13				
Instruments Inc					
123 N Madison St Tulsa Okla	10				
Isomet Corp					
118 Union St Palisades Park NJ	12				
Isotapes Inc					
123 Woodlawn Ave Westwood NJ	2-5-10-12				
Isopeas Specialties Co					
Box 688 Burbank Calif	5-10-12				
Jack Scientific Instrument Co Bill					
143 Cedron St Solana Beach Calif	1-2				
Jacobs Instrument Co					
4718 Bethesda Ave Bethesda 14 Md	2-13				
Jones & Wetlaufer Eng'g Corp					
11740 W Pico Blvd					
Los Angeles 64 Calif	8				
Kearfott Co Inc					
1378 Main Ave Clifton NJ	7				
Kollman Instrument Corp Standard					
Coil Products Sub 80-06 46 Ave					
Elmhurst 73 NY	11				
Laboratory For Electronics Inc					
75 Pitta St Boston 14 Mass	2-3-9-13				
Landia & Gyr					
45 W 46 St New York 38 NY	1-6-9-13				
Landsverk Electrometer Co					
641 Sonora Ave Glendale 4 Calif	5-10				
Las-Lab Inc					
Route 32 Sykesville Md	1-7				
Lavoie Labs Inc					
Matawan-Freehold Rd Mogganville NJ	4				
Lumenite Electronic Co					

Rockwell Eng'g Co 2133 E 44 St Indianapolis 5 Ind	8
Royson Eng'g Co 103 N Penn St Hathboro Pa	1-7
Seantlin Electronics Inc 11624 W Pico Blvd Los Angeles 54 Calif	2-3-4-18
Scientific Eng'g Lab 2436 Sacramento St Berkeley Calif	2
Schirmer-National Alarm Co 20 Westside Ave Bergenfield NJ	8
Sensory Inc 10 New St Morristown NJ	1-2
Servo-Recording Instruments Inc 1815 W Van Buren St Phoenix Ariz	3-5-10-12
Skiatron Electronics & TV Corp 180 Varick St New York 14 NY	1-2-3-4-6-8-9-11-18
Specialty Eng'g & Electronics Co 79 Clifton Pl Brooklyn 38 NY	10
Spencer Mfg Co 8253 N Cicero Ave Chicago 41 Ill	1-6-9
Standard Electric Time Co 89 Logan St Springfield 2 Mass	2-4
Standard Instrument Corp 651 Broadway New York 12 NY	2-3-8-9-13
Stanley Aviation Corp 2501 Dallas St Denver Colo	10-12
Statistical Instr Co 330 Haven Ave New York 33 NY	6
Stewart Instrument Co 6507 Grand River Detroit 8 Mich	18
Sticht Co Herman H 27 Park Pl New York 7 NY	11
Strandberg Eng'g Labs Inc 416 W Market St Greensboro N Carolina	2-11
Streeter Amet Grays Lake Ill	1-3-6-11
Systron Corp 2055 Concord Blvd Concord Calif	2-3-4-5-6-9-10-11-12-13
Taffet Radio & TV Co 27-05 Brooklyn-Queens Expressway W Woodside 7: NY	5-10
Taller & Cooper 75 Front St Brooklyn 1 NY	1-6-7-11
Tally Register Corp 8800 14 Ave NW Seattle 7 Wash	6
Technical Oil Tool Corp 1057 N La Brea Los Angeles 38 Calif	7-11
Telectro Industries Corp 35-18 37 St Long Island City 1 NY	1-2-3-4-8
Telemeter Magnetics Inc 2245 Pontius Ave Los Angeles 64 Calif	2-13
Textran Corp Box 4252 Austin 51 Texas	2-3-4
Tracerlab Inc 1601 Trapelo Rd Waltham 34 Mass	5-10-12
Tripl-T Electronics Co Box 5362 Pasadena Calif	2
Tri-Tronics Co 2607 St Charles Rd Bellwood Ill	8
Trout Electronics Inc 412 Smith St Rochester 6 NY	2-6-8-10-13
Tullamore Electronics Lab 6065 S Ashland Ave Chicago 36 Ill	2-3-10-12-18
UAC Electronics Div Universal Transistor Prods Corp 80 Bond St Westbury LI NY	5-8-10-12
Universal Atomics Corp 80 Bond St Westbury LI NY	5-8-10-12
Universal Transistor Products Corp 81 Sylvester St Westbury LI NY	5-10-12
Univave Inc 109 Marine St Farmingdale NY	11
Valar Electronics Co 13214 Crenshaw Blvd Gardena Calif	2
Varo Mfg Co 2201 Walnut St Garland Texas	4
Veeder-Root Inc 70 Sargeant St Hartford 2 Conn	1-7
Venner Electronics Ltd Kingston By-Road New Mulden Surrey England	2-4-6-9-13
Victor Adding Machine Co 8900 N Rockwell St Chicago 18 Ill	2
Victoreen Instrument Co 5806 Hough Ave Cleveland 8 Ohio	10-12
Wacline Inc 35 S St Clair St Dayton 2 Ohio	1-11-13
Waldorf Instrument Co Div F C Huyek & Sons Park Ave Huntington Station NY	1-2-13
Walcraft Co 141 W Hazel St Inglewood 3 Calif	2-3-4-6-8-9-11-13
Wang Labs Inc 37 Hurley St Cambridge 41 Mass	8
Weltron Co 19500 W 8 Mile Rd Detroit 19 Mich	2
West Coast Research Corp 231 1/2 Westwood Blvd Los Angeles 54 Calif	2
Western Radiation Lab 1107 W 24 St Los Angeles 7 Calif	5-10
Wood Counter Lab N 1525 E 53 St Chicago 18 Ill	5-10-12
Zenith Electric Co 182 W Walton St Chicago 10 Ill	13
Zernickow Co O 15 Park Row New York 88 NY	7-18

39—MEASUREMENT & TEST EQUIPMENT—DECADE BOXES

Decade boxes, capacitance	1
Decade boxes, inductance	2
Decade boxes, resistance	3

Aero Electronics Co 1512 N Wells St Chicago 10 Ill	2
Aerovox Corp 740 Belleville Ave New Bedford Ma	1-2-8
Audicon Electronics Inc 216 Lp St Paterson 4 NJ	1-2-3
Barker & Williamson Inc Canal & Beaver Sta Bristol Pa	2
Barnes Development Co 213 W Baltimore Ave Lansdowne Pa	1-3
Beckman/Berkeley Div Beckman Instruments Inc 2200 Wright Ave Richmond 3 Calif	1
Cal-Ohm Labs Inc Broadway & Adams St Sterling Kansas	1-2-3
Cambridge Instrument Co Grand Central Terminal New York 17 NY	3
Capitol Transcription Service 1120-A Conn Ave N W Washington 6 DC	8
Central Scientific Co of Canada Ltd 146 Kendal Ave Toronto 4 Ont Canada	8
Cinema Eng'g Div Aerovox Corp 1100 Chestnut St Burbank Calif	8
Clarostat Mfg Co Washington St Dover NH	2
Coast Coil Co 5333 W Washington Blvd Los Angeles Calif	2
Computer Eng'g Associates Inc 350 N Halstead St Pasadena Calif	2
Cornell-Dubilier Electric Corp 333 Hamilton Blvd S Plainfield NJ	1-3
Daven Co Route 10 Livingston NJ	3
Dimeter Mfg Co 22-24 Larkin Plaza Yonkers NY	3
Electro Instrument Inc Aero CT San Diego Calif	3
Electro-Measurements Inc 7524 S W Macadam Ave Portland 1 Ore	1-3
Electronic Measurements Co Lewis St & Maple Ave Eatontown NJ	1-3
Electronic Measurements Corp 625 Broadway New York 12 NY	1-3
Electronic Production & Development 138 Nevada St El Segundo Calif	1-2-8
Fidelity Amplifier Co 1633 N Halsted St Chicago 14 Ill	3
Freed Transformer Co 1718-36 Weirfield St Brooklyn 27 NY	1-2
Furzehill Labs Ltd 57 Clarendon Rd Watford England	8
General Radio Co 275 Massachusetts Ave Cambridge 39 Mass	1-2-3
General Resistance Inc 877 E 156 St New York 55 NY	3
Gerstach Products Inc 3211 La Cienega Blvd Los Angeles 25 Calif	1
Gray Instrument Co 200 E Church Lane Philadelphia 44 Pa	3
Heath Co 305 Territorial Rd Benton Harbor Mich	1-3
Industrial Instruments Inc 48 Commerce Rd Cedar Grove NJ	1-3
International Resistance Co 401 N Broad St Philadelphia 8 Pa	2
International Telephone & Telegraph Corp Industrial Products Div 250 Garahaldi Ave Lodi NJ	1-3
Leeds & Northrup Co 4970 Stenton Ave Philadelphia 44 Pa	1-2-3
Minn-Honeywell Regulator Co Instruments Div Wayne & Windrim Aves Philadelphia 44 Pa	8
Minn-Honeywell Regulator Co Rubicon Instruments Ridge Ave at 35 St Philadelphia 32 Pa	3
Muirhead Instruments Inc 677 5 Ave New York 22 NY	1-2-3
Ohmite Mfg Co Inc 3601 Howard St Skokie Ill	3
Physics Research Labs Inc P O Box 556 Hempstead NY	3
Precise Development Corp E Neil Ct Oceanside NY	1-3
Pye Canada Ltd 82 Northline Rd Toronto 16 Ontario Canada	1-2-3
Rinco Inc 7962 S E Powell Blvd Portland 6 Ore	1-2-3
Saratoga Industries Congress & Ralston Aves Saratoga Springs NY	1-2-3
Scientific Wood Cabinets Co 89 Holmes St Belleville 9 NJ	1-2-3
Shallcross Mfg Co Jackson & Pusey Aves Collingdale Pa	3
Simmonds Aerosecories Inc 105 White Plains Rd Tarrytown NY	1
Simmonds Aerosecories Inc Vergennes Vt	1
Terb Labs Berzen & Edaall Blvd Palisades Park NJ	1-2-3
Telectro Industries Corp 35-18 37 St Long Island City 1 NY	1
Telex 1533 Eustis St St Paul 1 Minn	3
Telson Industries Inc 78 N 2 Ave Beech Grove Ind	5

Theta Instrument Corp 48 Pine St E Paterson NJ	3
Torocell Co 2615 Bristol Rd Columbus 21 Ohio	2
Ultronix Inc 116 S Bayshore Blvd San Mateo Calif	3
United Transformer Corp 150 Varick St New York 13 NY	2
Valandy Electronics Corp 61-35 166 St Flushing 68 NY	1-3
Welch Scientific Co W M 1515 Sedgwick St Chicago 10 Ill	1-3
Weymouth Instrument Co 1440 Commercial St E Weymouth 89 Mass	3
Winalow Co 701 Lehigh Ave Union NJ	1-3

40—MEASUREMENT & TEST EQUIPMENT—GENERATORS

Generators, A-F signal	1
Generators, color TV bar	2
Generators, color TV dot	3
Generators, color TV signal	4
Generators, F-M signal	5
Generators, harmonic	6
Generators, microwave signal	7
Generators, noise	8
Generators, picture signal	9
Generators, pulse	10
Generators, R-F signal	11
Generators, single-sideband	12
Generators, square wave	13
Generators, sweep	14
Generators, sync	15
Generators, sync, stretcher	16
Generators, sync, studio TV	17
Generators, timing marker	18
Generators, TV composite signal	19
Generators, TV signal	20
Generators, UHF	21
Generators, ultrasonic	22
Generators, VHF	23
Generators, video signal	24
Generators, waveform	25
Multipliers, frequency	26

Acoustica Associates 26 Windsor Ave Mineola NY	22
Adler Electronics Inc 1 Lafayette Lane New Rochelle NY	1-5-6-10-11-12-20-21-28-24-25-26
Admiral Corp 3800 W Cortland St Chicago 47 Ill	8-10
Ad-Yu Electronics Lab Inc 249 Terhune Ave Passaic NJ	1
Aerona Mfg Corp Middletown Ohio	18
Aerophysics Dev Corp Sub Curtiss-Wright Corp P O Box 689 Santa Barbara Calif	22
Airborne Instruments Lab Inc 160 Old Country Rd Mineola NY	7-8
Aircrom Inc 354 Main St Winthrop Mass	6-7-8-11-21-23
Aircrom Inc 139 E 1st St Roselle NJ	7
Aircraft Radio Corp Bonton NJ	7-11-21-23
Airmec Ltd High Wycombe Buckinghamshire England	1-5-11
Alcar Instruments Inc 17 Industrial Ave Little Ferry NJ	22
Alfred Electronics 897 Commercial St Palo Alto Calif	14
Altec Lansing Corp 1515 S Manchester Ave Anaheim Calif	8
Alto Scientific Co 855 Commercial St Palo Alto Calif	1-10
Amerac Inc Dunham Rd Beverly Mass	7-26
Amerac Inc 116 Topsfield Rd Wenham Mass	7
American Electronic Laboratories 121 N 7 St Philadelphia 6 Pa	10-18-26
American Electronics Inc 655 W Washington Blvd Los Angeles 15 Calif	26
American Research & Mfg Corp 920 Halpine Ave Rockville Md	26
American Scientific Development 335 S Main St Fort Atkinson Wis	3-8
Antlab Inc 6330 Proprietors Rd Worthington Ohio	13
Arenberg Ultrasonic Laboratory 94 Green St Jamaica Plain 30 Mass	22
Aurion Electronics Inc 216 Lyon St Paterson 4 NJ	1-5-6-11-13-22
Bach-Simpson Ltd 1255 Brydges St London Ont Canada	1-5-11
Barker & Williamson Inc Canal & Beaver Sta Bristol Pa	1-12-18-26
Beckman/Berkeley Div Beckman Instruments Inc 2200 Wright Ave Richmond 3 Calif	10

Heckman Instruments/Systems Div 325 N Muller Ave Anaheim Calif	10	Empire Product Sales Corp 37 Prospect St Amsterdam NY	8	Mack Electronics Div Inc 1000 S 2 St Plainfield NJ	17
Heley Electric Co 1327 S Main St Los Angeles 15 Calif	16	Engineered Electronics Co 506 E 1 St Santa Ana Calif	10-13	Magnetic Instrument Co 546 Commerce St Thornwood NY	25
Hergen Labs 247 Crooks Ave Clifton NJ	21	Engineering Associates 434 Patterson Rd Dayton 9 Ohio	7-8-10-11-13-21-22-23-26	Majestic Int'l Corp 79 Washington St Brooklyn 1 NY	5-13-14-20-24-25
Herkshire Labs 596 Bank Village Greenville NH	10-26	Entron Inc 4902 Lawrence St Bladensburg Md	11	Mandrel Industrial Instruments Div Mandrel Industries Inc 5134 Glenmont Dr Houston Texas	13
H J Electronics Borg-Warner Corp 3309 Newport Ave Santa Ana Calif	5-11-13-14	Espey Mfg Co Congress & Ballston Ave Saratoga Springs NY	6	Mannon Laboratories Inc 207 Greenwich Ave Stamford Conn	6-7-10-11-12-21-23
H & K Mfg Co 3726 N Southport Chicago Ill	2-3-24	Farnsworth Electronics Co Div I T & T 3702 E Pontiac St Ft Wayne Ind	18	Manufacturers Eng'g & Equip Corp York Rd & Sunset Lane Haboro Pa	14
Houston Radio Corp Intervale Rd Ronton NJ	5-7-11-14	Federal Mfg & Eng'g Corp 1055 Stewart Ave Garden City NY	10-11-21	Marroni Instruments Ltd 611 Cedar Lane Englewood NJ	2-5-7-8-11-14-21-23-24
Hubaker Electronics Inc 352 Eastham Dr Culver City Calif	10-18	Feiler Eng'g & Mfg Co 8026 N Monticello Ave Skokie Ill	1-11	Maxson Instruments Div W L Maxson Corp 47-37 Austell Pl Long Island City 1 NY	7-11-21
Hruon-New York Industries Corp 460 W 34 St New York 1 NY	7-11-21	Ferris Instrument Corp 110 Cornelia St Ronton 1 NJ	11-21	Measurement Eng'g Ltd 232 John St Arnprior Ontario Can	10
Hulova Watch Co Electronics Div 40-01 61 St Woodside 77 NY	1-5-6-10-13-18-23-26	Foto-Video Labs Inc 25 Amity St Little Falls NJ	2-3-4-9-10-13-15-16-17-18-19-20-24-25	Maxonix Inc Mill Lane Waterford Conn	1-6-11
Hurr-Brown Research Corp 5444 Tucson Ariz	13	Freed Transformer Co 1718-36 Weirfield St Brooklyn 27 NY	22	Microlab Okner Pkwy Livingston NJ	6
Hurroughs Electronic Instruments Div 1209 Vine St Philadelphia 7 Pa	10	F-R Machine Works Inc Electronic & X-Ray Div 26-12 Borough Pl Wrecking 77 NY	1-6-7-10-11-13-14-26	Migo Electronic Corp Wade N W 37 Ave Miami 47 Fla	7
Hurroughs Corp Electronic Tube Div Box 1226 Plainfield NJ	18-25	General Communication Co 677 Beacon St Boston 15 Mass	7-11	Missouri Research Labs Inc 2109 Locust St St Louis 3 Mo	18-24
Calif Technical Industries Div Textron Inc 1421 Old County Rd Belmont 10 Calif	7	General Radio Co 275 Massachusetts Ave Cambridge 39 Mass	1-8-9-10-11-13-21-22-23-26	Mobil Electronics Mfg Co 1111 State Rd 67 E Anderson Ind	1
Chenega Corp 5955 Sepulveda Blvd Van Nuys Calif	14	Grand RaTronics Inc 17360 Hayes Rd Grand Haven Mich	22	Mudel Eng'g & Mfg Inc 50 Frederick St Huntington Ind	7-10-11-12-21-23
Cavitron Electron Oscillator Co Div Short Wave Plastic Fuming 355 N Newport Blvd Newport Beach Calif	22	Graphic Recorders Inc 14 Edgewood Ave Trumbull Conn	7	Muirhead Instruments Inc 677 5 Ave New York 22 NY	1
Centronix Inc 34 Cleaner St Cocoa Fla	11	Grem Fin'g Co 923 Longview Rd King of Prussia Pa	7	Navigation Computer Corp 1621 Snyder Ave Phila Penna	10
Chesapeake Instrument Corp Shadyide Corp Cinema-Television Ltd Worsley Bridge Rd Lower Sydenham London SE 26 England	8-22 2-3-4-10-13-15-16	Grien Industries Inc/Electronic Products Div 8701 Reading Rd Cincinnati 15 Ohio	10	Nevada Air Products Co P O Box 2472 Reno Nev	22
Clegg Labs Div Clegg Inc Ridgedale Ave Morristown NJ	7-10-12-21	Gulton Industries Inc 212 Durham Ave Metuchen NJ	22	Nichols & Clark Inc 321 Newburyport Tpk Danvers Mass	1
Cough-Bregle Co 6914 Broadway Chicago 40 Ill	1-11-14-21	Hall Sonic Eng'g Co 2402 2 St Peru Ill	22	Norman Laboratories Ernst Williams Bay Wisc	6-10-18
Collins Radio Co 865 35 St NE Cedar Rapids Iowa	12	Hammer Electronics Co Princeton NJ	16-13-25	Northeast Scientific Corp 617 W Concord Ave Cambridge 38 Mass	25
Colorado Research Corp 4697 E Evans Ave Denver 22 Colo	19-20-24-26	Hazeltine Electronics Div Hazeltine Corp 69-25 Little Neck Pkwy Little Neck 62 NY	2-3-4-7-9-10-11-21-23	Nuclear-Electronics Corp 2632 W Cumberland St Philadelphia 22 Pa	1-10-11-13
Communication Measurements Labs 350 Lelan Ave Plainfield NJ	22	Heath Co 305 Territorial Rd Renton Harbor Mich	1-2-3-6-11-13-14-19-23	Pacific Transducer Corp 11836 W Pico Blvd Los Angeles 64 Calif	1-14
Conn Organ Corp 555 E Jackson Blvd Elkhart Ind	1	Hewlett-Packard Co 278 Pace Mill Rd Palo Alto Calif	1-7-8-10-11-13-14-21-23-24-25	Packard Bell Electronics Corp 12353 W Olympic Blvd Los Angeles 64 Calif	10
Consolidated Avionics Corp 899 Shames Dr Westbury NY	25-26	Hickok Electrical Instrument Co 10514 Dupont Ave	1-2-3-4-5-6-8-9-10-11-13	Paro Electronics Co Inc 70-31 84th St Glendale 27 I.I. NY	11
Continental Electric Corp 302 Oakland St Brooklyn 22 NY	1	Holt Instrument Labs Div Holt Harkwood Co Inc Oconto Wisc	1	Panoramic Radio Products Inc 620 Fulton Ave Mt Vernon NY	14
Control Electronics Co Inc 1926 New York Ave Huntington Sta NY	6-7-18-26	Holzer Cabot Div Nat'l Pneumatic Co 125 Amory St Boston 18 Mass	4	Philamon Labs Inc 80 Hopper St Westbury LI NY	1
Cosser Canada Ltd 301 Windsor St Halifax Nova Scotia Canada	6-10-14-18	Hycon Eastern Inc 75 Cambridge Pkwy Cambridge 42 Mass	18	Philbrick Researches Inc George A 230 Congress St Boston 10 Mass	1-13-14-18-25
Creative Electronic Corp 94 Lincoln Ave Stamford Conn	8	Industrial Research Labs Div Aerona Mfg Corp Hilton & Fredericks Rds Baltimore Md	7-26	Philco Corp Accessory Div "A" & Allegheny Ave Philadelphia 34 Pa	2-3-11-14
Crosby Labs Inc Box 233 Robbins Lane Hickville NY	12	Ind Teat Equip Co 55 E 11th St New York 3 NY	1	Phillips Mfg Co 345 W Touhy Ave Chicago 45 Ill	22
Cubic Corp 5578 Kearny Villa Rd San Diego 11 Calif	10-25	Intercontinental Dynamics Corp 170 Coolidge Ave Englewood NJ	8	Polarad Electronics Corp 43-20 34 St Long Island City 1 NY	4-5-7-9-10-11-14-15-17-18-19-20-21-23-26
Dallona Labs 5066 Santa Monica Blvd Los Angeles 29 Calif	22	International Telephone & Telegraph Corp Industrial Products Div 250 Garibaldi Ave Lodi NJ	1-5-6-11-21-23	Polytechnic Research & Development Co 202 Tillary St Brooklyn 1 NY	7
Daven Co Route 10 Livingston NJ	1-5-10-11-12-13-14-16-18-21-23-25	Jacobs Instrument Co 4718 Bethesda Ave Bethesda 14 Md	10	Potter Aeronautical Corp Route 22 Union NJ	10
Dayton Aviation Radio & Equipment Corp P O Box 266 Troy Ohio	11-23	Jerrald Electronics Corp 23 A Chestnut St Philadelphia 3 Pa	11	Power Supplies Inc Co 1005 Olive St Highland Ill	22
Decode Instrument Co Box 163 Caldwell NJ	11	J-V-M Eng'g Co 4533 S Lawndale Ave Lyons Ill	7-11-21-26	Precise Development Corp 2 Neil Ct Oceanside NY	1-2-5-10-11-13
Demoray-Bonardi Corp 780 S Arroyo Pkwy Pasadena Calif	7	Kahn & Co 541 Windsor St Hartford 1 Conn	22	Precision Apparatus Co 70-31 84 St Glendale 27 LI NY	1-2-3-6-11-13-14
Designers for Industry 4241 Fulton Pkwy Cleveland 9 Ohio	12-21-22-26	Kato Eng'g Co 1415 1 Ave Mankato Minn	15	Pye Canada Ltd 82 Northline Rd Toronto 16 Ontario Canada	1-11-15-17-22
Diehl Mfg Co Finder Ave Somerville NJ	14	Kay Electric Co 14 Manie Ave Pine Brook NJ	1-2-3-4-5-7-8-9-10-11-14-19-20-21-22-23-24	Pye Telecommunications Ltd Newmarket Rd Cambridge England	1-11-25
DuMont Labs A II 750 Bloomfield Ave Clifton NJ	1-10-11-13	Kearfoot Co Inc 14844 Oxnard St Van Nuys Calif	7-11-13-26	Radar Design Corp 2360 James St Syracuse 12 NY	7
Dunlap Electronics 764 9 St Des Moines 14 Iowa	1-10-13	Kinevox-Hallen Div Electromation Co 1646 18 St Santa Monica Calif	10-19	Radar Engineers 401 E 45 St Seattle 5 Wash	18
Dynac Inc 395 Page Mill Rd Palo Alto Calif	1-5-7-10-11-13-14-18-21-22-23-26	Kintel 5725 Kearny Villa Rd San Diego 12 Calif	17	Radiation Inc P O Box 37 Melbourne Fla	10
Dyna-Empire Inc 1076 Stewart Ave Garden City LI NY	8	Kuss Industries Inc Tacony & Lewis Sta Philadelphia 24 Pa	9-9	Radiation Instrument Co P O Box 733 Silver Spring Md	10
Ely Sales Co 130 Lafayette St New York 13 NY	1	Laboratory For Electronics Inc 75 Pitts St Boston 14 Mass	7	Radio City Products Co Centre & Glendale Sta Easton Pa	1-2-3-4-5-10-11-13-14-21-23
Elcor Inc P O Box 354 McLean Va	10-13-14-25	Lambda-Pacific Eng'g Inc 14725 Armita St Van Nuys Calif	7	Radio Corp of America Commercial Electronic Products Front & Cooper Sts Camden NJ	1-2-3-4-5-6-10-11-13-14-15-16-17-18-20-21-23-24-25-26
Electric Specialty Co 211 South St Stamford 1 Conn	15	Lamkin Labs Inc R F D 1 Bradenton Fla	6-11	Radio Corp of America Electron Tube Div Harrison NJ	1-2-3-4-5-7-11-13-14-19-21-22-23-24-25
Electrical & Physical Instrument Corp 42-19 27 St Long Island City 1 NY	10	Lavinie Labs Inc Watawan-Freehold Rd Morganville NJ	10-11-21-23	Raytheon Mfg Co 100 River St Waltham 54 Mass	26
Electromation Co 1646 18 St Santa Monica Calif	10-18	Leach Corp-Inet Div 18135 Sussex Rd Compton Calif	8	Reeves Instrument Corp Roosevelt Field Garden City NY	8
Electronic Instrument Co 84 Withers St Brooklyn 11 NY	1-11-14	Level High Frequency Labs 54-18 37 Ave Woodside 77 NY	22	Redel Eng'g Corp 330 S Fair Oaks Ave Pasadena Calif	7-8-10-11-13-26
Electronic Measurements Corp 625 Broadway New York 12 NY	1-3-20	Levinthal Electronic Products Inc 3180 Hanover St Palo Alto Calif	7-21		
Electro-Pulse Inc 11861 Teale St Culver City Calif	10				
Elzenco P O Box 45344 A P Sta Los Angeles Calif	8				

Research Industrial Lab of Electronics
Roslyn Pa 10

Hese Eng'g Inc
731 Arch St Philadelphia 6 Pa 10-25

Riverbank Labs Eng'g Dept
P O Box 65 Geneva Ill 1

RS Electronics Corp
P O Box 368 Sta A Palo Alto Calif 8

Rue Products
1628 Venice Blvd Venice Calif 1-11

Rutherford Electronics Co
8944 Lindblade St Culver City Calif 10-18

Scott Inc H H
385 Putnam Ave Cambridge 39 Mass 8

Servo Corp of America
2020 Jericho Turnpike
New Hyde Park NY 18-25

Simonson Electric Co
5200 W Kinzie St
Chicago 44 Ill 2-3-4-5-10-13-20-21

Skiatron Electronics & TV Corp
150 Varick St
New York 14 NY 9-10-13-14-15-16-17-18-19-20-24-25

Solartron Electronic Group Ltd
Queens Rd Tringham Ditton
Surrey England 1-10-11-13-25

Southwestern Industrial Electronics Co
2531 Post Oak Rd
Houston 19 Texas 1-10-13-22-25-26

Specialty Eng'g & Electronics Co
79 Clifton Pl Brooklyn 38 NY 1-10-11

Spectralab Instruments
404 N Halstead Ave
Pasadena Calif 11-21-23-26

Spencer-Kennedy Labs Inc
1320 Soldiers Field Rd Boston 35 Mass 10

Sperry Gyroscopic Co
Microwave Electronics Div
Great Neck NY 5-7-10-24

Sperry Gyroscopic Co Marine Div
Roosevelt Field Mineola NY 1-5-8

Star-Kimble Motor Div Miehle
Printing Press & Mfg Co
200 Bloomfield Ave Bloomfield NJ 15

Statistical Instr Co
330 Haven Ave New York 33 NY 8-25-26

Stelma Inc
190 Henry St Stamford Conn 10

Taffel Radio & TV Co
27-05 Brooklyn-Queens Expressway W
Woodside NY 1-3-6-11-13

Tarc Electronics Inc
48 Urban Ave
Westbury LI NY 2-9-10-15-16-17-19-24

Technical Oil Tool Corp
1057 N La Brea Los Angeles 38 Calif 7

Technitrol Eng'g Co
1952 E Allegheny Ave Philadelphia 34 Pa 10

Tektronix Inc
P O Box 831 Portland 7 Ore 10-13-18-25

Telechrome Mfg Corp
28 Ranick Dr 2-3-4-7-9-10-11-12-13-15-16-17-18-19-20-24-25

Teletro Industries Corp
35-18 37 St
Long Island City 1 NY 1-7-10-11-21-24

Telemarine Communications Co
140 W Broadway New York 13 NY 5-11-21-23

Telerad Mfg Corp
Route 69 Flemington NJ 5-7-10-11-21-23

Telerad Mfg Corp
1440 Broadway New York 18 NY 5-7-10-11

Teltronics Lab Inc
54 Kinkel St Westbury NY 10

Tel-Instrument Electronics Corp
728 Garden St
Carlstadt NJ 2-3-4-5-9-11-14-15-17-19-20-21-23-24

Telonic Industries Inc
73 N 2 Ave Beech Grove Ind 6-10-11-14-21-23

Transistor Devices Inc
730 Blvd Kenilworth NJ 1

Transitron Inc
186 Granite St
Manchester NH 5-6-7-11-14-21-23

Triplett Electrical Instrument Co
Harmon Rd
Ruffton Ohio 2-3-4-5-11-14-20-24

Tullamore Electronics Lab
6055 S Ashland Ave Chicago 36 Ill 10

Ultrasonic Eng'g Co
1613 S 8 Ave Maywood Ill 22

Universal Atomics Corp
50 Bond St Westbury LI NY 10-13

Valany Electronics Corp
61-35 166 St Flushing 68 NY 1

Van Norman Industries Inc Electronics Div
186 Granite St
Manchester NH 6-7-11-14-21-23

Varo Mfg Co
2201 Walnut St Garland Texas 1-26

Vectron Inc
1611 Trapelo Rd Waltham 54 Mass 7-13

Voron & Co George
835 N 19 St Philadelphia 30 Pa 1

Waldorf Instrument Co Div F C Huyck & Sons
Park Ave
Huntington Station NY 8-10-14-15-18

Watts Labs Inc
37 Hurley St Cambridge 41 Mass 10-25

Waveforms Inc
333 8 Ave New York 14 NY 1-22

WaveLine Inc
P O Box 718 Caldwell NJ 7

Wave Particle Corp
P O Box 252 Menlo Park Calif 14

Weinschel Eng'g
10503 Metropolitan Ave Kensington Md 7-13

Weymouth Instrument Co
1440 Commercial St E Weymouth #9 Mass 7

Wickes Eng'g & Construction Co
12 St & Ferry Ave Camden 4 NJ 2-3-4

Winston Electronics Inc
4312 Main St Philadelphia 27 Pa 2-3

41—MEASUREMENT & TEST EQUIPMENT—MONITORS

Monitors, antennas phase 1

Monitors, audio 2

Monitors, frequency 3

Monitors, modulation 4

Monitors, phase angle 5

Monitors, power 6

Monitors, service 7

Monitors, video color 8

Monitors, video line 9

Monitors, video off-the-air 10

Monitors, VOR 11

Monitors, waveform 12

Adler Electronics Inc
1 Lefevre Lane New Rochelle NY 12

Admiral Corp
3800 W Cortland St Chicago 47 Ill 12

Aerophysics Dev Corp Sub Curtiss-Wright
Corp P O Box 689
Santa Barbara Calif 3-6

Aircraft Radio Corp
Bounton NJ 11

Airmec Ltd
High Wycombe
Buckinghamshire England 3-4-5

American Communications Corp
280 Broadway New York 17 NY 2

American Machine & Foundry Co
Defense Products Group
1101 N Royal St Alexandria Va 5-6

Audual Co
57 Mack Ave Shelby Ohio 8

Hergen Labs
247 Crooks Ave Clifton NJ 5

Browning Labs Inc
750 Main St Winchester Mass 4

Budelman Radio Corp
378 Fairfield Ave Stamford Conn 3-4

Hulova Watch Co Electronics Div
40-01 61 St Woodside 77 NY 3

Huas-Clement-Doughten & Associates
201 H Studio Hill Chester Springs Pa 2-9

Central Electronics Inc
1247 W Belmont Ave Chicago 13 Ill 4

CGS Laboratories Inc
Routes 7 & 35 Ridgefield Conn 3

Chemalloy Electronics Corp
Gillespie Airport Santee Calif 5

Chesapeake Instrument Corp
Shady Side Md 3

Cinema-Television Ltd
Worsley Bridge Rd Lower Sydenham
London SE 26 England 2-3-7-8-9-10-12

Collins Radio Co
855 35 St NE Cedar Rapids Iowa 11

Conras Inc
1921 E Foothill Blvd Glendora Calif 8-9-10

Control Electronics Co Inc
1925 New York Ave
Huntington Sta NY 3-5-12

Crescent Eng'g & Research Co
5440 N Peck Rd El Monte Calif 3-4-6

Cunningham Sun & Co James
33 Litchfield St Rochester 8 NY 8-9

Curtiss-Wright Corp Electronics Div
631 Central Ave Carlstadt NJ 7

Daven Co
Route 10 Livingston NJ 2-4-11

Dukane Corp
St Charles Ill 2

DuMont Labs A B
750 Bloomfield Ave Clifton NJ 2

Dunlap Electronics
764 9 St Des Moines 14 Iowa 2-3-4

Dyna-Empire Inc
1075 Stewart Ave Garden City LI NY 2

Dynatronix Inc
717 W Amelia Ave Orlando Fla 6

Electro Impulse Lab Inc
208 River St Red Bank NJ 3-6

Empire Product Sales Corp
37 Prospect St Amsterdam NY 4

Engineering Associates
434 Patterson Rd Dayton 9 Ohio 4

Foto-Video Labs Inc
25 Amity St Little Falls NJ 9-12

Gates Radio Co
123 Hampshire St Quincy Ill 3-4

General Radio Co
275 Massachusetts Ave
Cambridge 39 Mass 3-4

Gertsch Products Inc
3211 La Cienga Blvd
Los Angeles 25 Calif 4

Gruen Industries Inc/Electronic Products Div
9701 Reading Rd Cincinnati 15 Ohio 3

Hazeltine Electronics Div/Hazeltine Corp
58-25 Little Neck Pkwy
Little Neck 62 NY 8-11

Heath Co
305 Territorial Rd Benton Harbor Mich 4

Hewlett-Packard Co
275 Page Mill Rd Palo Alto Calif 8

Holt Instrument Labs
Div Holt Harkwood Co Inc
Oconto Wis 2

Ind Test Equip Co
55 E 11th St New York 3 NY 5

Industrial TV Inc
369 Lexington Ave Clifton NJ 8-9

Kane Productions Al
1411 Walnut St Philadelphia 2 Pa 9-10

Kearfott Co Inc
14844 Onard St Van Nuys Calif 3-6

Kings Electronics Co Inc
40 Marbledale Rd Tuckahoe NY 6

Kintel
5725 Kearny Villa Rd
San Diego 12 Calif 9-10

Laboratory for Electronics Inc
75 Pitts St Boston 14 Mass 2-3

Lampkin Labs Inc
R F D 1 Bradenton Fla 3-4

Langevin Mfg Corp
47-37 Austell Pl Long Island City 1 NY 2

Mack Electronics Div Inc
1000 S 2 St Plainfield NJ 4-6

Magnusord Div Midwestern Instruments Inc
1101 S Gilbourn Ave Chicago 24 Ill 2

Majestic Int'l Corp
78 Washington St Brooklyn 1 NY 9

Maryland Electronic Mfg Corp
5009 Calvert Rd College Park Md 1-11

Maurer Inc J A
37-01 31 St Long Island City 1 NY 2-8-9-10

Northeast Electronics Corp
Airport Rd Concord NH 8

Northern Radio Co
143 W 22 St New York 11 NY 3

Polarad Electronics Corp
1000 S 2 St Plainfield NJ 8-9-12

Polytechnic Research & Development Co
202 Tillary St Brooklyn 1 NY 6

Pye Canada Ltd
82 Northline Rd
Toronto 16 Ontario Canada 9

Radar Design Corp
2350 James St Syracuse 12 NY 6

Radiation Inc
P O Box 37 Melbourne Fla 1

Radio Corp of America
Commercial Electronic Products
Front & Cooper Sts Camden NJ 1-3-4-8-10-12

Radio Specialty Mfg Co
223 SE 6 Ave Portland 14 Ore 4

Ram Meter Inc
1100 Hilton Rd Ferndale 20 Mich 6

Readel Eng'g Corp
330 S Fair Oaks Ave Pasadena Calif 6

Rue Products
1628 Venice Blvd Venice Calif 6

Sierra Electronic Corp
3845 Bohannon Dr Menlo Park Calif 6

Skiatron Electronics & TV Corp
180 Varick St New York 14 NY 9-12

Southwestern Industrial Electronics Co
2831 Post Oak Rd Houston 19 Texas 4

Sperry Gyroscopic Co
Microwave Electronics Div
Great Neck NY 3-5

Systron Corp
2055 Concord Blvd Concord Calif 3-5

Tarc Electronics Inc
48 Urban Ave Westbury LI NY 5

Tektronix Inc
P O Box 831 Portland 7 Ore 10-13-18-25

Telechrome Mfg Corp
28 Ranick Dr
Amityville LI NY 3-5-7-8-9-10-12

Teletro Industries Corp
35-18 37 St Long Island City 1 NY 2-11

Tel-Instrument Electronics Corp
728 Garden St Carlstadt NJ 8

Theta Instrument Corp
48 Pine St E Paterson NJ 5

Topp Industries Inc
8807 Wilshire Blvd Beverly Hills Calif 11

Varo Mfg Co
2201 Walnut St Garland Texas 2-3-4-5-6

Virginia Electronics Co
River Rd & B & O R R
Washington 16 DC 2

Waldorf Instrument Co Div F C Huyck & Sons
Park Ave
Huntington Station NY 7

Waterman Products Co
2445 Emerald St Philadelphia 25 Pa 5-12

Wauwh Eng'g Co
7842 Burnet Ave Van Nuys Calif 8

Western Electro Acoustic Lab Inc
11789 San Vicente Blvd
Los Angeles 49 Calif 2

Westinghouse Electric Corp
P O Box 868 Pittsburgh 30 Pa 3

Wickes Eng'g & Construction Co
12 St & Ferry Ave Camden 4 NJ 8

42—MEASUREMENT & TEST EQUIPMENT—OSCILLATORS

Oscillators, audio 1

Oscillators, cavity 2

Oscillators, code 3

Oscillators, crystal 4

Oscillators, grid dip 5

Oscillators, microwave 6

Oscillators, pulse 7

Oscillators, R-F	8		
Oscillators, sweep	9		
Oscillators, tuning fork	10		
Oscillators, ultra low frequency	11		
Oscillators, ultrasonic	12		
Oscillators, video pattern	13		
Oscillators, video range	14		
Acoustica Associates 26 Windsor Ave Mineola NY	12		
Adler Electronics Inc 1 Lefevre Lane New Rochelle NY	1-2-7-8		
Advance Industries Inc 640 Memorial Dr Cambridge 39 Mass	2		
Aerophysics Dev Corp Sub Curtis-Wright Corp P O Box 689 Santa Barbara Calif	7-12		
Airborne Instrumentals Lab Inc 180 Old Country Rd Mineola NY	2-6		
Aircorn Inc 354 Main St Winthrop Mass	2-6-8-9		
Airmec Ltd High Wycombe Buckinghamshire England	1-4-8		
Alctra Div Consolidated Electrodynamics Corp 325 N Altadena Dr Pasadena Calif	1		
Alfred Electronics 897 Commercial St Palo Alto Calif	6		
Alto Scientific Co 855 Commercial St Palo Alto Calif	1-5		
Amerac Inc Dunham Rd Beverly Mass	2-6-7		
Amerac Inc 116 Topfield Rd Wenham Mass	2-6-7		
American Corp 21-25 45 Rd Long Island City 1 NY	8		
American Electronic Laboratories 121 N 7 St Philadelphia 6 Pa	7		
American Machine & Foundry Co Defense Products Group 1101 N Royal St Alexandria Va	6		
American Microwave Corp 11754 Vose St Hollywood Calif	6		
American Time Products Inc 580 S Ave New York 36 NY	10		
Anderton Electronic Lab 129 E 1809 S St Bountiful Utah	1		
Antlab Inc 6380 Proprietors Rd Worthington Ohio	10		
Arenberg-Ultrasonic Laboratory 94 Green St Jamaica Plain 30 Mass	7		
Arted Co 367 Worthington St Springfield 3 Mass	8		
Audicon Electronics Inc 216 Lyon St Paterson 4 NJ	1-3-12		
Rich-Simons Ltd 1255 Brydges St London Ont Canada	1-3		
Harker & Williamson Inc Canal & Beaver Sta Bristol Pa	1-3-7-8-9-11-12		
Hell & Gossett Co Dualex Div 8200 Austin Ave Morton Grove Ill	10		
Hiddle Co 1816 Arch St Philadelphia 7 Pa	10		
Hilley Electric Co Union Station Bldg Erie Pa	4		
Hogart Mfg Corp 315 Seigel St Brooklyn 6 NY	6		
Huonion Electronics Corp 738 Speedwell Ave Merrick Plains NJ	2-5		
Hugh Sutin Div George W Burz Corp 120 S Main St Janesville Wis	4		
Bukova Watch Co Electronics Div 400-61 St Woodside 77 NY	1-4-11		
Hunnell & Co J H 41 Prospect St Brooklyn 1 NY	10		
Huss-Clement-Doughten & Associates 201 H Street Hill Chester Springs Pa	1		
Calif Technical Industries Div Textron Inc 1421 Old County Rd Belmont 10 Calif	6		
Cardinal Instrumentation Corp 4201 Redwood Ave Los Angeles 66 Calif	1-4-8		
Cavitron Electron Oscillator Co Div Short Wave Plastic Forming 365 N Newport Blvd Newport Beach Calif	2-5-6-8-12		
Central Coil Co 1720 N Luett St Indianapolis 22 Ind	8		
Centronix Inc 34 Olvander St Cocoa Fla	8		
Century Electronics Co 84 Otlander St Cocoa Fla	4		
CG Electronics Corp 1500 Central St Albuquerque New Mex	1		
CGS Laboratories Inc Routes 7 & 85 Ridgefield Conn	2-6		
Cinema-Television Ltd Worsley Bridge Rd Lower Sydenham London SE 26 England	1-7-8		
Cleerz Lab Div Cleerz Inc Ridgedale Ave Morristown NJ	6-7-9		
Clough-Brenzle Co 6014 Broadway Chicago 40 Ill	1-4-9		
Community Eng'g Corp Box 824 State College Pa	8-9		
Conn Organ Corp 1555 E Jackson Blvd Elkhart Ind	1-3		
Consolidated Avionics Corp 800 Shames Dr Westbury NY	1-7		
Consolidated Electrodynamics Corp 300 N Sierra Madre Villa Pasadena Calif	1-8		
Continental Electronics Ltd 302 Oklans St Brooklyn 22 NY	1		
Control Electronics Co Inc 1925 New York Ave Huntington Sta NY	14		
Creative Electronics Corp 94 Lincoln Ave Stamford Conn	1-3-5-8-9		
Dallons Labs 5066 Santa Monica Blvd Los Angeles 29 Calif	12		
Daven Co Route 10 Livingston NJ	1-4-7-8-9-11		
Dayton Aviation Radio & Equipment Corp P O Box 258 Troy Ohio	4-8-9		
Deagan Inc Co 1750 W Berteau Ave Chicago 13 Ill	10		
Decode Instrument Co Box 153 Caldwell NJ	4-5		
Demurnay-Bonardi Corp 780 S Arroyo Pkwy Pasadena Calif	6		
Designers For Industry 1241 Fulton Pkwy Cleveland 9 Ohio	4-11-12		
Diamond Antenna & Microwave Corp 7 North Ave Wakefield Mass	6-8		
Dukane Corp St Charles Ill DuMont Labs A B	1-7-8-9		
Dunlap Electronics 554 S Des Moines 14 Iowa	1-4		
Dynac Inc 395 Page Mill Rd Palo Alto Calif	1-6-7-8		
Dynamic Electronics Inc 73-29 Woodhaven Blvd Forest Hills NY	8		
Dynamic Instrument Corp 59 New York Ave Westbury NY	1		
Dynatronic Inc 717 W Amelia Ave Orlando Fla	8		
Eclor Inc P O Box 354 McLean Va	7		
Electromation Co 1646 18 St Santa Monica Calif	7		
Electronic Instrument Co 44 Withers St Brooklyn 11 NY	1-8		
Electronic Measurements Corp 625 Broadway New York 12 NY	1		
Electronic Research Associates 67 Factory Pl Cedar Grove NJ	1		
Electronics Intl Co 145 W Magnolia Blvd Burbank Calif	1-12		
Electronics Intl Co Inc 20 N Lee St Oklahoma City 2 Okla	8		
Electro-Pulse Inc 11861 Teale St Culver City Calif	7		
Electro Sound Corp 115 Halleck St Boston 15 Mass	1		
Elm Labs 10 Washington Ave Haatington Hudson NY	1		
El-Tronics Inc Penn Ave Mayfield Pa	1		
Empire Product Sales Corp 37 Prospect St Amaterdam NY	6		
Engineered Electronics Co 305 E 1 St Santa Ana Calif	4-7		
Engineering Associates Inc 434 Patterson Rd Dayton 9 Ohio	6-8		
Entron Inc 4902 Lawrence St Bladensburg Md	8		
Erwood Inc 1750 W Berteau Ave Chicago 13 Ill	10		
ESF Corp 534 Bergen Blvd Palisades Park NJ	7		
Foto-Video Labs Inc 25 Amity St Little Falls NJ	7-13-14		
Fox Co Thomas T 95 Summit St Newark NJ	10		
F-R Machine Works Inc Electronic & X-Ray Div 26-12 Rorouch Pl Woodside 77 NY	2-6-7-8-9		
Frequency Standards Inc P O Box 504 Ashbury Park NJ	2-6-8		
Furzehill Labs Ltd 57 Clarendon Rd Watford England	1-7		
Gates Radio Co 123 Hampshire St Quincy Ill	1-8		
General Radio Co 275 Massachusetts Ave Cambridge 39 Mass	1-4-6-7-8-10-12		
Genisco Inc 2233 Federal Ave Los Angeles 64 Calif	1-9		
Gruen Industries Inc Electronic Products Div 9701 Reading Rd Cincinnati 15 Ohio	8		
Gulton Industries Inc 212 Durham Ave Metuchen NJ	1-8-12		
Hallamore Electronics Co 9352 Brookhurst Ave Anaheim Calif	1		
Hazeltine Electronics Div Hazeltine Corp 59-25 Little Neck Pkwy Little Neck 62 NY	1-2-3-4-6-7-8-9		
Health Co Territorial Rd Benton Harbor Mich	1-5-8-9		
Hewlett-Packard Co 275 Page Mill Rd Palo Alto Calif	1-6-8-9		
Hickok Electrical Instrument Co 10514 Dupont Ave Cleveland 4 Ohio	1-4-7-8-9-11-12-13-14		
Hill Electronic Eng & Mfg Co 300 N Chestnut St Mechanicsburg Pa	1-4-11		
Holland Electronics 772 E 53 St Brooklyn NY	10		
Holt Instrument Labs Div Holt Harwood Co Inc Oconto Wis	1		
Hycon Eastern Inc 78 Cambridge Pkwy Cambridge 42 Mass	4		
Industrial Research Labs Div Aerona Mfg Corp Hilltop & Fredericks Rds Baltimore Md	1-2-3-4-12		
Ind Test Equip Co 65 E 11th St New York 3 NY	1-10		
Instrument Labs 315 W Walton Pl Chicago 10 Ill	1		
International Research Associates 2221 Warwick Ave Santa Monica Calif	1		
International Telephone & Telegraph Corp Industrial Products Div 250 Garabaldi Ave Lodi NJ	8		
Jackson Electrical Instrument Co 18 S Patterson Blvd Dayton 2 Ohio	1-9		
Johnson Co E F 206 2 Ave SW Waseca Minn	3		
J-V-M Eng'g Co 4633 S Lawndale Ave Lyons Ill	2-6-8		
Kay Electric Co 14 Maple Ave Pine Brook NJ	1-4-7-8-9-11-12-13-14		
Kinevox-Hallen Div Electromation Co 1646 18 St Santa Monica Calif	7		
Krohn-Hite Corp 580 Massachusetts Ave Cambridge 39 Mass	1-11-12		
Laboratory for Electronics Inc 75 Pitts St Boston 14 Mass	6		
Langevin Mfg Corp 47-37 Austell Pl Long Island City 1 NY	1-10		
Lavoie Labs Inc Matawan-Freehold Rd Morganville NJ	4		
Lepel High Frequency Labs 64-18 37 Ave Woodside 77 NY	12		
Ling Electronics Inc 9937 Jefferson Blvd Culver City Calif	9		
L & O Research & Dev Corp 134 N Wayne Ave Wayne Pa	9		
Mack Electronics Div Inc 1000 S 2 St Plainfield NJ	12		
Magnaflux Corp 7300 W Lawrence Ave Chicago 31 Ill	12		
Majestic Int'l Corp 79 Washington St Brooklyn 1 NY	1-7		
Manson Laboratories Inc 207 Greenwich Ave Stamford Conn	4-6		
Maxson Instruments Div W L Maxson Corp 47-37 Austell Pl Long Island City 1 NY	2-8		
Measurement Eng'g Ltd 232 John St Arnprior Ontario Can	1		
Metronix Inc Mill Lane Waterford Conn	1-11-12		
Millen Mfg Co James 150 Exchange St Malden 48 Mass	3-8-9		
Minshall Org Co 28 Ruge St Brattleboro Vt	1		
Mobil Electronics Mfg Co 1111 State Rd 67 E Anderson Ind	1-4-12		
Model Eng'g & Mfg Inc 50 Frederick St Huntington Ind	2-8		
Muirhead Instruments Inc 677 E Ave New York 22 NY	1-10-11-12		
Wytron Mfg Co 4522 Brazil St Los Angeles 39 Calif	8		
Norrman Laboratories Ernst Williams Bay Wis	4		
Northern Radio Co 143 W 22 St New York 11 NY	4-5		
Nuclear-Electronics Corp 2632 W Cumberland St Philadelphia 32 Pa	1-8-12		
Owen Labs Inc 55 Beacon Pl Pasadena Calif	1		
Parkard Bell Electronics Corp 12333 W Olympic Blvd Los Angeles 64 Calif	3		
Paco Electronics Co Inc 70-31 84th St Glendale 27 LI NY	8		
Philamon Labs Inc 90 Hopper St Westbury LI NY	10		
Plectron Corp Overton Neb	10		
Polarad Electronics Corp 43-20 34 St Long Island City 1 NY	2-6-7-8-9		
Polytechnic Research & Development Co 202 Tillary St Brooklyn 1 NY	8		
Polytronic Research Inc 7660 Woodbury Dr Silver Spring Md	6		
Precision Apparatus Co 70-84 St Glendale 27 LI NY	1-8		
Press Wireless Labs Inc 25 Prospect Pl W Newton 65 Mass	8		
Pulse Techniques Inc 1411 Palisade Ave W Englewood NJ	1		
Pye Canada Ltd 82 Northline Rd Toronto 16 Ontario Can	1-8-12		
Pye Telecommunications Ltd Newmarket Rd Cambridge England	8		
Radar Design Corp 2360 James St Syracuse 12 NY	8		
Radex Corp 2076 Elston Ave Chicago 14 Ill	1		
Radiation Instrument Co P O Box 753 Silver Spring Md	7		
Radio City Products Co Centre & Glendale Sta Easton Pa	1-4-5-7-9		
Radio Corp of America Commercial Electronic Products Front & Cooper Sta Camden NJ	4-5-9		
Radio Corp of America Electron Tube Div Harrison NJ	1-4-8-9-12-13		
Rea Co J B 1723 Cloverfield Blvd Santa Monica Calif	6-11-12		
Reed & Reese Inc 717 N Lake Ave Pasadena 6 Calif	10		
Reedel Eng'g Corp 830 S Fair Oaks Ave Pasadena Calif	2-4-6-7-8		
Research Industrial Lab of Electronics Roalyn Pa	7		
Riverbank Labs Eng'g Dept P O Box 65 Geneva Ill	10-11-12		
Rue Products 1628 Venice Blvd Venice Calif	8		

Rutherford Electronics Co	
8944 Lindblade St Culver City Calif	7
Scala Radio Co	
2814 19 St San Francisco 10 Calif	1
Servomex Controls Inc	
80 Shore Rd Port Washington NY	9-11
Skiatron Electronics & TV Corp	
180 Varick St New York 14 NY	13
Smith Inc Herman H	
2326 Nostrand Ave Brooklyn 10 NY	3
Solartron Electronic Group Ltd	
Queens Rd Thames Ditton	
Surrey England	1-6-11-14
Southwestern Industrial Electronics Co	
2831 Post Oak Rd	
Houston 19 Texas	1-7-10-11-12
Specialty Eng'g & Electronics Co	
79 Clifton Pl Brooklyn 31 NY	1
Spectrum Instruments Inc	
44-05 30 Ave Long Island City 3 NY	1-11
Spivey Inc James S	
4908 Hampden Lane Washington 14 DC	1-7
Statistical Instr Co	
330 Haven Ave New York 33 NY	11
Taffet Radio & TV Co	
77-05 Brooklyn-Queens Expressway W	
Woodside 77 NY	1-3-4-5-8-11
Technical Material Corp	
700 Fenimore Rd Mamaroneck NY	8
Technical Oil Tool Corp	
1057 N La Brea Los Angeles 38 Calif	2-6
Technitrol Eng'g Co	
1952 E Allegheny Ave Philadelphia 34 Pa	14
Telchrome Mfg Corp	
28 Ranick Dr Amityville LI NY	13-14
Telectro Industries Corp	
35-18 37 St Long Island City 1 NY	1-2-6-7-8
Tele-Dynamics Inc	
51 & Parkside Philadelphia Pa	1-4-6-7-8-9
Telemarig Communications Co	
140 W Broadway New York 13 NY	9
Telerad Mfg Corp	
Route 69 Flemington NJ	2-6-8
Telerad Mfg Corp	
1440 Broadway New York 18 NY	2-6-7
Teletronics Lab Inc	
54 Kinzel St Westbury NY	1-4
Telonic Industries Inc	
73 N 2 Ave Beech Grove Ind	8-9
Textran Corp	
Box 4252 Austin 51 Texas	4
Times Facsimile Corp	
540 W 58 St New York 19 NY	10
Trans Electronics Inc	
7349 Canoga Ave Canoga Park Calif	7
Transistor Devices Inc	
730 Blvd Kenilworth NJ	1
Transitron Inc	
186 Granite St Manchester NH	2-6-8-9
Triplet Electrical Instrument Co	
Harmon Rd Bluffton Ohio	8-9
Ultrasonic Eng'g Co	
1613 5 3 Ave Maywood Ill	12
Valandy Electronics Corp	
61-35 166 St Flushing 68 NY	1
Van Norman Industries Inc Electronics Div	
186 Granite St Manchester NH	2-6-8-9
Vari-L Co	
432 Fairfield Ave Stamford Conn	
Varo Mfg Co	
2201 Walnut St Garland Texas	1-10-11
Venner Electronics Ltd	
Kingston By-Road	
New Malden Surrey England	1-4
Victor RF & Microwave Co	
95 W Water St Wakefield Mass	6
Vokar Corp	
7300 Huron River Dr Dexter Mich	8
Voron & Co George	
535 N 19 St Philadelphia 30 Pa	1-3-4
Waldorf Instrument Co Div F C Huyck & Sons	
Park Ave Huntington Station NY	7
Walkirt Co	
141 W Hazel St Inglewood 3 Calif	4-10
Waveforms Inc	
333 6 Ave New York 14 NY	1-11-12
Waveline Inc	
P O Box 718 Caldwell NJ	6
Wave/Particle Corp	
P O Box 252 Menlo Park Calif	9
Wayne-Kerr Inst	
P O Box 801 Phila 5 Pa	1-6-14
Wells-Gardner & Co	
2701 N Kildare Ave Chicago 39 Ill	12
Weymouth Instrument Co	
1440 Commercial St E Weymouth 89 Mass	6
Woodwelding Inc	
355 N Newport Blvd Newport Beach Calif	8

43—MEASUREMENT & TEST EQUIPMENT—OSCILLOGRAPHs

Oscillographs, cathode-ray	1
Oscillographs, direct writing	2
Oscillographs, multi-channel	3
Oscillographs, multi-element	4
Oscillographs, portable	5
Oscillographs, projection	6
Oscillographs, recording	7
Oscillographs, transient study	8
Acton Laboratories	
533 Main St Acton Mass	2-3
Advanced Electronics Mfg Corp	
2025 Pontius Ave Los Angeles 25 Calif	1

Airmec Ltd	
High Wycombe Buckinghamshire England	3
Allgany Instrument Co	
1091 Wills Mountain Cumberland Md	1-3-8
Ameico Inc	
2040 Colo Ave Santa Monica Calif	2-3
American Electronic Laboratories	
121 N 7 St Philadelphia 6 Pa	1-3-5
Bach-Simpson Ltd	
1255 Brydges St London Ont Canada	1
Beam Instruments Corp	
350 5th Ave New York 1 NY	1-5
Bolton Labs Inc	
W Main St Bolton Mass	1
Brush Instruments	
3405 Perkins Ave	
Cleveland 14 Ohio	2-3-5-7-8
Central Electronics Inc	
1247 W Belmont Ave Chicago 13 Ill	1
Central Research Labs	
Red Wing Minn	1-3-7-8
Central Scientific Co of Calif	
1040 Martin Ave Santa Clara Calif	1
Century Electronics & Instruments Inc	
1325 N Litch P O Box 6216 Pine Sta	
Tulsa 10 Okla	2-3-7
Cinema-Television Ltd	
Worsley Bridge Rd Lower Sydenham	
London SE 20 England	1-3-7
Consolidated Electro-dynamics Corp	
360 N Sierra Madre Villa	
Pasadena Calif	1-2-3-4-5-7
Conco Canada Ltd	
301 Windsor St	
Halifax Nova Scotia Canada	1-5-6-7
Daven Co	
Route 10 Livingston NJ	1
DuMont Labs A II	
750 Bloomfield Ave Clifton NJ	1-3-5-8
Dunlap Electronics Inc	
754 9 St Des Moines 14 Iowa	1
Edgerton Gernsbaums & Grier	
160 Brookline Ave Boston 15 Mass	1
Edin Co	
207 Main St Worcester 5 Mass	2-3-5-7
Electro Instrument Inc	
Aero Ct San Diego Calif	5
Electro-Medical Lab Inc	
8 Woodstock 10 Vt	2
Electronic Associates Inc	
Long Branch NJ	2-3-7
Electronic Instrument Co	
84 Withers St Brooklyn 11 NY	1
Electronic Measurements Corp	
625 Broadway New York 12 NY	1
Electronic Tube Corp	
1200 E Mermaid Lane Phila 18 Pa	1-3-7-8
El-Tronics Inc	
Penn Ave Mayfield Pa	1
Engineering Associates	
434 Patterson Rd Dayton 9 Ohio	1
Feljar Eng'g & Mfg Co	
8026 N Monticello Ave Skokie Ill	1-5
Furzehill Labs Ltd	
57 Clarendon Rd Watford England	1
General Electric Co	
Apparatus Sls Div	
1 River Rd Schenectady 5 NY	1-2-3-4-7
Geotechnical Corp	
8712 Haggard Dr Dallas 9 Texas	2-3-4-6-7-8
Gordon Enterprises	
5862 N Cahuenga Blvd	
N Hollywood Calif	2-3-4-5-7-8
Hamilton Watch Co Hathaway Inst Div	
5800 E Jewell Denver 22 Colo	1-3-7
Hamilton Watch Co Allied Product Div	
Columbia Ave Lancaster Pa	1-2-3-4-5-6-7-8
Hathaway Instrument Div Hamilton Watch Co	
5800 E Jewell Ave Denver 22 Colo	1-7
Heath Co	
305 Territorial Rd Benton Harbor Mich	1
Hewlett-Packard Co	
275 Page Mill Rd Palo Alto Calif	1
Hickok Electrical Instrument Co	
10514 Dupont Ave Cleveland 8 Ohio	1-5
Hogan Labs Inc	
155 Perry St New York 14 NY	2-3-4-7
Huohes Aircraft Co	
Florence & Teale Sta Culver City Calif	8
Hughes Products Hughes Aircraft Co	
5340 W 104 St Intl Airport Sta	
Los Angeles 45 Calif	1-8
Industrial TV Inc	
859 Lexington Ave Clifton NJ	1
International Telephone & Telegraph Corp	
Industrial Products Div	
250 Garibaldi Ave Lodi NJ	1-3
Kingston Electronic Corp	
North St Medfield Mass	1
Laboratory For Electronics Inc	
75 Pitta St Boston 14 Mass	1
Lavoie Labs Inc	
Matawan-Freehold R4 Morganville NJ	1
Levinthal Electronics Products Int	
3180 Ranover St Palo Alto Calif	3
Mandrel Industrial Instruments	
Div Mandrel Industries Inc	
5134 Glenmont Dr Houston Texas	2-3-4-5-7-8
Mass Laboratories Inc	
5 Fottler Rd Hingham Mass	2-3-7-8
Midwestern Instruments	
P O Box 7185 Tulsa Okla	2-3-4-5-7
Millen Mfg Co James	
150 Exchange St Malden 49 Mass	1-5-8
Minneapolis Honeywell Holland Div	
5900 E Evans Ave Denver 22 Colo	2-3-4-5-7-8
Missouri Research Labs Inc	
2908 Locust St St Louis 3 Mo	1-7-8
Model Eng'g & Mfg Inc	
50 Frederick St Huntington Ind	1-5

Offner Electronics Inc	
5320 N Kedzie Ave Chicago 25 Ill	2-3-5-7-8
Paco Electronics Co Inc	
70-31 84th St Glendale 27 LI NY	1
Phico Corp Accessory Div	
74 & Allegheny Ave Philadelphia 34 Pa	2
Photographic Products Inc	
1000 N Olive St Anaheim Calif	7
Photon Instrument Co	
5616 Detroit Ave Cleveland 2 Ohio	2-3-5-7
Polytronic Research Inc	
7660 Woodbury Dr Silver Spring Md	6
Polytronics Inc	
1725 Westmore Rd Rockville Md	1
Precise Development Corp	
8 Neil Ct Oceanside NY	1
Precision Apparatus Co	
70-31 84 St Glendale 27 LI NY	1
Radio City Products Co	
Centre & Glendale Sta Easton Pa	1
RCA Electron Tube Div	
415 8 5 Harrison NJ	1-8
Railway Communications Inc	
9351 E 59 St Raytown 33 Mo	1-3
Reeves Instrument Corp	
Rosevelt Field Garden City NY	3
Sanborn Co	
175 Wyman St Waltham 54 Mass	2-3
Skiatron Electronics & TV Corp	
180 Varick St New York 14 NY	1-5-6-7-8
Solartron Electronic Group Ltd	
Queens Rd Thames Ditton	
Surrey England	1-3-5-8
Southwestern Industrial Electronics Co	
2831 Post Oak Rd	
Houston 19 Texas	1-2-3-4-5-7
Specialty Eng'g & Electronics Co	
79 Clifton Pl Brooklyn 38 NY	1
Spivey Inc James S	
4908 Hampden Lane Washington 14 DC	1
Stoelting Co C H	
424 N Homan Ave Chicago 24 Ill	2-3
Taffet Radio & TV Co	
27-05 Brooklyn-Queens Expressway W	
Woodside 77 NY	1
Tektronix Inc	
P O Box 831 Portland 7 Ore	1
Trad Television Co	
1001 First Ave Asbury Park NJ	1
Triplet Electrical Instrument Co	
Harmon Rd Bluffton Ohio	1-5
Waterman Products Co	
2445 Emerald St Philadelphia 25 Pa	1-3-8

44—MEASUREMENT & TEST EQUIPMENT—SPECIAL PURPOSE

Attenuators, A-F	1
Attenuators, logarithmic	2
Attenuators, R-F	3
Barometers	4
Belometers	5
Cabinets, temperature test	6
Calibrators, sweep	7
Calibrators, UHF	8
Cameras, oscilloscope recording	9
Chronographs	10
Chromoscopes	11
Combustion test equipment	12
Comparators, automatic resistance	13
Comparators, circuit linearity	14
Comparators, voltage	15
Converters, frequency	16
Delay lines	17
Direction finders	18
Filters	19
Frequency measuring equipment	20
Integrators	21
Inverters	22
Locators, cable & line faults	23
Locators, open-short	24
Locators, pipe & cable	25
Microwave test equipment	26
Multivibrators	27
Pressure measuring equipment	28
Probes	29
Pulse equipment	30
Radar test sets	31
Recorders, frequency response	32
R-F interference equip.	33
Servos	34
Slotted lines	35
Specialties, capacitor	36
Specialties, inductance	37
Specialties, resistance	38
Spectrometers	39
Spectrophotometers	40
Spectroscopic source units	41
Synchrosopes	42

Thermocouples	43
Thermopiles	44
Tracers, signal	45
Transducers	47
Transducers, sonar	48
Tuning forks	49
Vibration measuring equipment ..	50
VSWR measuring equipment ..	51

Abrams Instrument Corp 606 E Shawawasee St Lansing 1 Mich	9
Ace Eng'g & Machine Co Inc Tomlinson Rd Huntingdon Valley Pa	33
Acoustica Associates 25 Windsor Ave Mineola NY	47
Adler Electronics Inc 1 Lafayette Lane New Rochelle NY	1-3-19-20-31
Advanced Electronics Inc 94 Silas Deane Hwy Rocky Hill 9 Conn	6-29-50
Advanced Instruments 45 Kenneth St Newton Highlands 61 Mass	39-40
Ad-Yu Electronic Lab Inc 249 Terhune Ave Passaic NJ	17
Advance Industries Inc 400 Memorial Dr Cambridge 39 Mass	24-45
Advance Instrument Corp 1709 F St Helmar NJ	31
Aero Electronics Co 1512 N West St Chicago 10 Ill	44-50
Aero Instrument Co 11223 Vanowen St N Hollywood Calif	29
Aurora Mfg Corp Hilltop & Frederick Rds Haltimere 28 Md	13-14-15-30-31-34
Aerophysics Div Corp Sub Curtis-Wright Corp P O Box 689 Santa Barbara Calif	9-28-30-32-47-50-51
Aero Research Instrument Co 315 N Aberdeen St Chicago 7 Ill	28-29-43
Aerovox Corp 740 Bellville Ave New Bedford Mass	1
Albion Electronics Co 6813 Transit Ave N Hollywood Calif	31
Airborne Instruments Lab Inc 160 Old Country Rd Mineola NY	3-21-26
Aircorn Inc 354 Main St Winthrop Mass	26-29-35-51
Aircorn Inc 139 E 1st St Roselle NJ	3-26-31
Airrad Armaments Inc Cherry Tree Rd Box 126 Rockeyville Md	20-26-31
Airflo Instrument Co 53 Addison Rd Glastonbury Conn	28-29-43
Airmec Ltd High Wycombe Buckinghamshire England	20
AirResearch Mfg Co Div Garrett Corp 8851 Sepulveda Blvd Los Angeles 45 Calif	28-46
Airtron Inc 1108 W Elizabeth Ave Linden NJ	3-20-26-35-43-51
Alear Instruments Inc 17 Industrial Ave Little Ferry NJ	46-47
Alden Electronic & Impulse Recording Corp P O Box 125 Westboro Mass	32
Alextra Div Consolidated Electrodynamics Corp 325 N Altadena Dr Pasadena Calif	3
Alford Mfg Co 208 Atlantic Ave Houston 10 Tex	3-26-35-51
Alfred Electronics 897 Commercial St Palo Alto Calif	28
Allegany Instrument Co 1091 Willis Mountain Cumberland Md	8-21-29-47-50
Allied Allegri Co 141 River Rd Nutley 10 NJ	43
Alto Scientific Co 855 Commercial St Palo Alto Calif	22-30
Amerac Inc 116 Topfield Rd Wenham Mass	26
Amerac Inc Dunham Rd Beverly Mass	20-26-31
American Electronic Laboratories 121 N E St Philadelphia 6 Pa	19-26-30-31-41
American Electronics Inc 655 W Washington Blvd Los Angeles 15 Calif	16-22-39-47
American Instrument Co 8050 Georgia Ave Silver Springs Md	43
American Machine & Foundry Co Electronics Div 1085 Commonwealth Ave Boston 15 Mass	27
American Machine & Foundry Co Defense Products Group 1101 N Royal St Alexandria Va	12-20-26-29-31-32-37
American Microwave Corp 1754 Vase St N Hollywood Calif	26-31
American Optical Co Instrument Div Box A Buffalo 15 NY	39-40
American Rectifier Corp 95 Lafayette St New York 13 NY	22
American Research Corp Route 6 Farmington Conn	6
American Thermoelectric Co 2250 Santa Monica Blvd Los Angeles 46 Calif	43
American Time Products Inc 580 5 Ave New York 36 NY	49

Andersen Labs Inc 501 New Park Ave W Hartford Conn	17
Andromeda Inc 3742 Howard Ave Kensington Md	15-21
Anetaberger Bros Northbrook Ill	6
Anico Div Genl Aniline & Film Corp Charles St Binghamton NY	9
Antenna & Radome Research Assoc 1 Bond St Westbury NY	3-26
Applier Physics Corp 382 W Colorado St Pasadena 1 Calif	40
Applied Research Inc 76 S Bayles Ave Port Washington NY	3-33
Aremac Associates 39 S San Gabriel Blvd Pasadena Calif	9
Arenberg Ultrasonic Laboratory 94 Green St Jamaica Plain 30 Mass	2-17
Arnoux Corp 11924 W Washington Blvd Los Angeles 66 Calif	29-47-50
Associated Missile Products Sub American Mch & Fdry 2799 N Garvey Ave Pomona Calif	13-15-16-28-34
Associated Research Inc 3777 W Belmont Ave Chicago 18 Ill	23
Associated Testing Labs 108 Clinton Rd Caldwell NJ	6-12
Atlantic Research Corp 901 N Columbus St Alexandria Va	12-28-47-48
Atlas Precision Products Co 3801 Castor Ave Philadelphia 24 Pa	13-14-30
Atmosphere Control Co 5315 Chester Ave Philadelphia 13 Pa	8
Atronic Products Inc 1 Bala Ave Bala Cynwod Phila Pa	30
Audricon Electronics Inc 216 Lyon St Paterson 4 NJ	21
Automatic Timing & Controls Inc King of Prussia Pa	29-31-47
Auto Test Inc 5900 S Michigan Ave Chicago 5 Ill	20-29
Avionics Ltd P O Box 300 Niagara-on-the-Lake Ontario Canada	26
Avtron Mfg Inc 10409 Meech Ave Cleveland 5 Ohio	20
Axler Associates Inc 102-42 43 Ave New York 68 NY	39-40
Bald-Atomic Inc 33 University Bld Cambridge 38 Mass	5-19-28-10-41
Baldwin-Lima-Hamilton Corp Electronics & Instrumentation Div 42 Fourth Ave Waltham 54 Mass	28-47-50
Ballantine Labs Inc Bouquet NJ	22
Balfour Colman Co 1300 Rock St Rockford Ill	39
Barker & Williamson Inc Canal & Heaver Sts Bristol Pa	17-19-30-50
Barkley & Dexter 50 Frankfort St Fitchburg Mass	31
Barnes Development Co 213 W Baltimore Ave Lansdowne Pa	18-16-38
Bassett Inc Res 1311 N E 17 Ct Ft Lauderdale Fla	43
Baum Instruments Corp 350 5th Ave New York 1 NY	20
Beattie-Coleman Inc 1000 N Olive St Anaheim Calif	9
Beckman Berkeley Div Beckman Instrumentals Inc 2200 Wright Ave Richmond 3 Calif	28-29-50
Beckman Hellpot Corp Newport Beach Calif	17-21
Beckman Instruments Inc Data & Control Systems Scientific Instrumentals Div 325 N Muller Ave Anaheim Calif	10-20-28
Belfax Corp 11 Ramah Circle Agawam Mass	32
Bendix Aviation Corp Pacific Div 11600 Sherman Way N Hollywood Calif	47-48
Bendix Aviation Corp Red Bank Div Rt 37 Eatontown NJ	16-22
Bendix Aviation Corp 1194 Fisher Bldg Detroit 2 Mich	39-48
Bendix Aviation Corp Cincinnati Div 3130 Wasson Rd Cincinnati 8 Ohio	39
Bergen Labs 247 Crooks Ave Clifton NJ	18
Bernco Engineering Corp 2320 S Tibbs Ave Indianapolis 41 Ind	29-43
Berndt-Hach Inc Auricon Div 8900 Romaine Ave Hollywood 38 Calif	0
B & F Instruments Inc 4732 N Broad St Philadelphia 41 Pa	47
B & H Instrument Co 3479 W Vickery Blvd Ft Worth 7 Texas	20-29-43
Biddle Co James G 1316 Arch St Philadelphia 7 Pa	20-40-44
B J Electron Corp Horst-Warner Corp 3300 Newport Ave Santa Ana Calif	3-28-35-47-51
Blackburn Electronic Corp 55 W 7 St Wyoming Pa	3
Bliley Electric Co Union Station Bldg Erie Pa	17
Blonder-Tongue Laboratories 9-25 Alling St Newark 2 NJ	3
Blue M Electric Co 138 & Chatham St Blue Island Ill	6
Boskari Mfg Corp 315 Seigel St Brooklyn 6 NY	3-26
Bosque Electric Mfg Co 52 Iowa Ave Paterson 3 NJ	16-22
Rolton Labs Inc W Main St Rolton Mass	20-26-31

Buonton Electronics Corp 733 Speedwell Ave Morris Plains NJ	8
Bourne Labs Inc P O Box 2112 Riverdale Calif	47
Bowser Technical Refrigeration Div Bowser Inc Terryville Conn	6
Brew & Co Richard D 30 Airport Rd Concord NH	17
Bristol Co P O Box 1790 El Waterbury Conn	12-20-22-28-43-47
Browning Labs Inc 750 Main St Winchester Mass	26-51
Bruno-New York Industries Corp 5955 W 34 St New York 1 NY	5-26
Brunswick Instruments P O Box 813 New Brunswick NJ	22-38
Brukh Instruments 3405 Perkins Ave Cleveland 14 Ohio	20-28-29-32-39-50
Budd Stanley Co 43-01 22 St Long Island City 1 NY	3
Hulosa Watch Co Electronics Div 40-01 61 St Woodside 77 NY	19
Bunly Electronics Corp 171 Fabyan Pl Newark 12 NJ	19
Bunnell & Co J H 81 Prospect St Brooklyn 1 NY	49
Burnell & Co 10 Pelham Pkwy Pelham Manor NY	17-19-37
Burnett Radio Lab W W L 4814 Idaho St San Diego 16 Calif	20
Burr-Brown Research Corp Box 6443 Tucson Ariz	20
Burroughs Corp Electronic Instruments Div 1209 Vine St Philadelphia 7 Pa	17
Calidyne Co 200 Cross St Winchester Mass	10
Calif Technical Industries Div Textron Inc 1421 Old County Rd Helmont 10 Calif	13-23-24-26-35-51
Cambridge Instrument Co Grand Central Terminal New York 17 NY	43-44-50
Canadian Applied Research Ltd 1500 Oconnor Dr Toronto 16 Can	9-21-34
Canadian Aviation Electronics Ltd 6214 Cote de Liesse Rd St Laurent Quebec Canada	17-31
Canosa Corp 51 Sepulveda Blvd Van Nuys Calif	21
Cardinal Instrumentation Corp 4201 Redwood Ave Los Angeles 66 Calif	6-29-47
Cedar Eng'g Inc 5808 W 36 St Minneapolis 16 Minn	47
Central Coil Co 1720 N Luett St Indianapolis 22 Ind	17
Central Electronic Mfg Co Inc Sub Nuclear Corp of America 2 Richwood Pl Denville NJ	42
Central Scientific Co of Calif 1040 Martin Ave Santa Clara Calif	39-40-44-49
Central Scientific Co of Canada Ltd 145 Kendal Ave Toronto 4 Ont Canada	6-40-49
Chemalloy Electronics Corp Gillespie Airport Santee Calif	3-25-51
Chesapeake Instrument Corp Shadyside Md	21-47-48-50
Chromatic Television Laboratories 1501 Broadway New York 36 NY	31
Cinema Eng'g Div Aerovox Corp 1100 Chestnut St Burbank Calif	1-15-27
Cinema-Television Ltd Worsley Bridge Rd Lower Sydenham London SE 26 England	9-10-11-15-15-15-29-25-25-37
Clark Electronic Labs Box 165 Palm Springs Calif	47
Clarostat Mfg Co Washington St Dover NH	1-39
Clegg Labs Div Clegg Inc Ridgedale Ave Morristown NJ	26
Cleveland Instrument Co 735 Carnegie Ave Cleveland 15 Ohio	47
Clevite Corp Texas Div 3732 Westmeier Rd Houston 6 Texas	9-23
Coaxial Connector Co 37 N E Ave Mt Vernon NY	3-5-17-29-35
Coil Winders Inc 30 New York Ave New Cassel Westbury LI NY	17-19-37
Coleman Instruments Inc 318 Madison St Maywood Ill	40
Collins Radio Co 865 35 St NE Cedar Rapids Iowa	28
Columbia Research Labs MacDade Blvd & Bulens La Woodlyn Pa	47-50
Colvin Labs Inc 364 Glenwood Ave E Orange NJ	25-47
Computer Eng'g Associates Inc 350 N Halstead St Pasadena Calif	21-37
Computing Devices of Canada Ltd P O Box 508 Ottawa Ontario Can	51
Conn Ltd C G 555 E Jackson Blvd Elkhart Ind	20
Conn Organ Corp 555 E Jackson Blvd Elkhart Ind	20
Conrad Inc 141 Jefferson St Holland Mich	4
Consolidated Controls Corp 4 Durant Ave Bethel Conn	43
Consolidated Electrodynamic Corp 300 N Sierra Madre Villa Pasadena Calif	28-39-47-50
Continental Electronics Ltd 302 Oakland St Brooklyn 22 NY	1

Control Electronics Co Inc
1925 New York Ave
Huntington Sta NY 8-17-26-31

Controlled Atmosphere Enclosures Corp
230-11 141 Ave
Springfield Gardens LI NY 6-19

Convair-San Diego
P O Box 1960 San Diego 12 Calif 31

Conser Canada Ltd
301 Windsor St
Halifax Nova Scotia Canada 9-30-43

Creative Electronics Corp
34 Lincoln Ave Stamford Conn 31

Crescent Eng'g & Research Co
5440 N Peck Rd
El Monte Calif 22-28-37-47-50

Cubic Corp
5575 Kearny Villa Rd
San Diego 11 Calif 26-31-51

Cunningham Son & Co James
33 Litchfield St Rochester 8 NY 13-15

Curtiss-Wright Corp Electronics Div
631 Central Ave Carlstadt NJ 43

Custom Scientific Instruments Inc
541 Devon St Woodside 77 NY 12

Dallans Labs
5066 Santa Monica Blvd
Los Angeles 29 Calif 28-46

Datran Electronics
1836 Rosecrans Ave
Manhattan Beach Calif 28-34-47

Daven Co
Route 10 Livingston NJ 1-2-3-19-27-38

Davenport Mfg Co
1713 N Ashland Ave
Chicago 22 Ill 15-38

Dayton Aviation Radio & Equipment Corp
P O Box 258 Troy Ohio 18

Daytronic Corp
215 S Main St Dayton 2 Ohio 28-47

Decatur Electronic Industries Corp
203 Orinoco Dr Brightwater LI NY 29

Decker Corp
45 Monument Rd Hala Cynwyd Penna 28-29

Defiance Eng'g & Microwave Corp
Beverly Airport Beverly Mass 3-6

Demorney-Honardi Corp
780 S Arroyo Pkwy
Pasadena Calif 3-20-26-35-51

Designers For Industry
4242 Fulton Pkwy
Cleveland 8 Ohio 27-31-34-47

Detroit Controls Corp Norwood
Controls Unit 934 Washington St
Norwood Mass 28-46

Development Eng'g Co
9 Cross St Norwalk Conn 6

Diamond Antenna & Microwave Corp
7 North Ave
Wakefield Mass 3-19-20-26-29-31-35

Digital Equip Corp
Wayden Mass 30

Digitronics Corp
Albertson Ave Albertson LI NY 17

Dit-Mco Inc Electronics Div
911 Broadway Kansas City Mo 23-24

Dunner Scientific Co
RRR Galindo St Concord Calif 48

Dunham Labs A B
750 Bloomfield Ave Clifton NJ 7-9-29-30-31

Dunlap Electronics
764 9 St Des Moines 14 Iowa 7-8-20-30

Dynac Inc
395 Page Mill Rd Palo Alto Calif 16-31-47

Dyna-Empire Inc
1075 Stewart Ave
Garden City LI NY 28-43-47-48

Dynalysid Development Labs Inc
11941 Wilshire Blvd Los Angeles 25 Calif 16

Dynamic Development Co
59 New York Ave Westbury NY 14-15-34

Dynamic Electronics Inc
73-29 Woodhaven Blvd
Forest Hills NY 1-3-8-19-20

Dynatron Corp
59 New York Ave Westbury NY 15

Dynatronic Inc
717 W Amelia Ave Orlando Fla 30-31

Eby Sales Co
130 Lafayette St New York 13 NY 29-45

Edison Industries Thomas A Instrument Div
McGraw-Edison Co E Lakeside Ave
W Orange NJ 34

Eicor Inc Div Jacobs Co
517 W Walnut St Ogelaby Ill 23

Floor Inc
P O Box 354 McLean Va 27-30

Eldorado Electronics Co
2821 10 St Berkeley 10 Calif 21-30

Electric Boat Div General Dynamics
Eastern Point Rd Groton Conn 50

Electric Motors & Specialties
King & Hampshire St Garrett Ind 16

Electro Impulse Lab Inc
208 River St Red Bank NJ 5-26-29-44

Electro Instrument Inc
Aero Ct San Diego Calif 13-15-24-38

Electro-Medical Lab Inc
E Woodstock 10 Vt 9-10

Electronic Associates Inc
Long Branch NJ 15-17-21-22-23-32-34

Electronic Designs Inc
28 School St Yonkers NY 29

Electronic Instrument Co
84 Withers St Brooklyn 11 NY 29

Electronic Measurements Co
Lewis St & Maple Ave Eatontown NJ 22

Electronic Measurements Corp
625 Broadway New York 12 NY 50

Electronic Research Associates
67 Factory Pl Cedar Grove NJ 16

Electronics Inc
39 York Rd Willow Grove Pa 29

Electronics Intl Co Inc
20 N Lee St
Oklahoma City 2 Nebr 20

Electronic Tube Corp
1200 E Mermaid Lane Phila 18 Pa 9-42

Electron-Radar Products
4806 W Chicago Ave Chicago 51 Ill 3

Electro Products Laba Inc
4501 N Ravenswood Ave Chicago 40 Ill 47

ElectroPulse Inc
11861 Teale St Culver City Calif 7

Electro Systems Inc
1035 Westminster Ave Alhambra Calif 34

Electrovert Inc
489 5 Ave New York NY 3-26

Electro Vision Lab
41408 6th St Long Island City 1 NY 31

Electro-Voice Inc
Civil & Carrol Sta Buchanan Mich 47

Elison Draft Gage Co
548 W Monroe St Chicago 6 Ill 28

Elm Labs
10 Washington Ave
Hastings-on-Hudson NY 29

El-Rad Mfg Co
2800 W Cullom Ave Chicago 18 Ill 17

El-Tronics Inc
Penn Ave Mayfield Pa 18

Emerson Electric Mfg Co
8100 Florissant Ave St Louis 21 Mo 51

Empire Design Products Corp
30-15 Holl Blvd Bayside 61 NY 7

Empire Product Sales Corp
37 Prospect St Amsterdam NY 3-26-33

Endevco Corp
161 E California St Pasadena Calif 47-50

Engelhard Inc Charles
850 Passaic Ave E Newark NJ 43-44-47

Engelhard Industries Inc
113 Astor St Newark NJ 43-47

Engineered Electronics Co
506 E 1 St Santa Ana Calif 27

Engineering Associates
434 Patterson Rd
Dayton 9 Ohio 10-16-20-26-27-30-31

Ensign Equipment Co
431 S Dearborn St Chicago 5 Ill 39

Entron Inc
4902 Lawrence St Bladenburg Md 3-16-19

Eppley Lab Inc
12 Sheffield Ave Newport RI 44

Epsco Inc
388 Commonwealth Ave
Boston 15 Mass 17-19

Erona Corp
551 Fifth Ave New York 17 NY 40

Erie Resistor Corp
644 W 12 St Erie 6 Pa 47

Erwood Inc
1770 W Bertrou Ave Chicago 13 Ill 49

ESR Corp
531 Bergen Blvd Palisades Park NJ 17-19-30

Essex Electronics Div NYT Electronics Inc
7303 Atoll Ave N Hollywood Calif 17

Esterline-Angus Co
P O Box 596 Indianapolis 6 Ind 28

Exact Eng'g & Mfg Inc
P O Box 668 Oceanside Calif 34

Eukia Camera Co
705 Bronx River Rd Bronxville 8 NY 9

Fairchild Camera and Instrument Corp
Robbins La Syonset NY 9

Fairchild Controls Corp
6111 E Washington Blvd
Los Angeles Calif 47

Fairchild Control Corp Components Div
225 Park Ave Hicksville LI NY 28-47

Fairchild Guided Missiles Div
Fairchild Engine & Airplane Corp
Straight Path Wyandown LI NY 47

Farrand Controls Inc
4401 Bronx Blvd New York 70 NY 43-44

Farnsworth Electronics Co Div I T & T
3702 E Pontiac St Ft Wayne Ind 17-26-31

Fecker Inc J W
6592 Hamilton Ave Pittsburgh 6 Pa 39-40

Feedback Controls Inc
899 Main St Waltham 54 Mass 34

Felner Eng'g & Mfg Co
7025 N Monticello Ave Skokie Ill 29-45

Fenwal Inc
Pleasant St Ashland Mass 43-47

Ferranti Electric Inc
30 Rockefeller Plaza New York 20 NY 17

Ferris Instrument Corp
110 Cornelia St Bonton 1 NJ 35

Field Electrical Instrument
8 N Myshem Blvd New Platz NY 43

Fielden Instrument Div
Robertshaw-Fulton Controls Co
2920 N 4 St Philadelphia 33 Pa 43

Filmohm Corp
48 W 25 St New York 10 NY 3

Filtron Co
131-15 Fowler Ave Flushing 55 NY 17-33

Filtron Co
10023 W Jefferson Blvd Culver City Calif 17

Fisher & Porter Co
478 Warminster Rd Hatboro Pa 28-47

Fisher Research Lab
1961 University Ave Palo Alto Calif 25

Flight Research Inc
P O Box 1-F Richmond 1 Va 9

Flow Corp
85 Mystic St Arlington Mass 19-43-47

Fluorocarbon Products Inc Div U S Gasket Co
602 N 10 St Camden 1 NJ 36-37-38

Ford Instrument Co Div Sperry Rand Corp
31-10 Thomson Ave
Long Island City 1 NY 21

Foto-Video Labs Inc
25 Amity St Little Falls NJ 17-27

Foxboro Co
Neposet Ave Foxboro Mass 43

Fox Co Thomas T
95 Summit St Newark NJ 26

Fredericks Co Geo E
Bethayres Pa 21-28-47

Freeal Transformer Co
173-35 Weirfield St Brooklyn 27 NY 19-37

F-R Machine Works Inc
Electronic & X-Ray Div 26-12 Borough Pl
Woodside 77 NY 3-5-20-26-29-30-31-35-51

Frequency Standards
P O Box 501
Asbury Park NJ 16-20-26-31

Fugle-Miller Labs Inc
301 Central Ave Clark NJ 17-18

Furzehill Labs Ltd
57 Clarendon Rd Watford England 1-9-20-19

Gabriel Electronics Div Gabriel Co
135 Crescent Rd
Needham Heights 91 Mass 26-35

Geacotron Scientific Corp
1238 Wrightwood Ave Chicago 14 Ill 10-19

General Communication Co
677 Heaton St
Boston 15 Mass 3-5-20-26-30-41

General Controls Co
801 Allen Ave Glendale 1 Calif 34

General Electric Co
Stebbins St Div 1 River Rd
Schenectady 5 NY 20-40-42-43-47-50

General Electric Co Specialty Control Dept
P O Box 812 Waynesboro Va 29

General Instrument Corp F W Slicks Div
165 Front St Chicopee Mass 47

General Precision Lab Inc
1308 S Santa Anita Ave Pasadena 8 Calif 31

General Radio Co
275 Massachusetts Ave
Cambridge 39 Mass 26-27-30-35-49-50-51

General RF Fittings Inc
702 Heaton St Boston 15 Mass 3-5-20-33

Genisco Inc
2233 Federal Ave Los Angeles 64 Calif 47

Geotechnical Corp
3712 Haggar Dr Dallas 9 Texas 9-47-50

Gertach Products Inc
3211 La Vienga Blvd
Los Angeles 25 Calif 1-19-20

Gilmire Industries Inc
5713 Euclid Ave Cleveland 3 Ohio 47

Globe Industries Inc
1784 Stanley Ave Dayton 4 Ohio 34

G & M Equipment Co
7315 Varna Ave N Hollywood Calif 26

Goldak Co
1514 W Glenoaks Blvd Glendale 1 Calif 25

Gold Electronics Corp
17 Brooks St Newton 68 Mass 43

Goodrich Sponge Products B F
Div H F Goodrich Co
Canal St Shelton Conn 3-26

Goodyear Aircraft Corp
1210 Massillon Rd Akron 15 Ohio 31

Gordon Co Claude S
3300 S Wallace St Chicago 16 Ill 43

Gordon Enterprises
5362 N Cahuenza Blvd
N Hollywood Calif 9-10-11-19-22-39-40

Granger Associates
966 Commercial St
Palo Alto Calif 18-20-26-30

Gray Instrument Co
290 E Church Lane Philadelphia 44 Pa 43

Green Eng'g Co
923 Longview Rd King of Prussia Pa 26-31

Green Industries Inc/Electronic Products Div
9701 Reading Rd
Cincinnati 15 Ohio 20-30-31-42

Gudeman Co
340 Huron St Chicago 10 Ill 17

Gulton Industries Inc
212 Durham Ave
Metuchen NJ 17-19-28-29-36-47-48-50

Hagan Chemicals & Controls Inc
343 J Ave Pittsburgh 30 Pa 28-47

Hallamco Electronics Co
3352 Brookhurst Ave Anaheim Calif 15-16-22

Hamilton Watch Co Allied Products Div
Columbia Ave Lancaster Pa 10-20-43-49

Hamner Electronics Co
P O Box 531 Princeton NJ 30

Hazeltine Electronics Div Hazeltine Corp
59-25 Little Neck Pkwy
Little Neck 62 NY 17-30-31

Heath Co
305 Territorial Rd
Benton Harbor Mich 18-19-20-36-37-38

Hewlett-Packard Co
275 Page Mill Rd
Palo Alto Calif 1-3-5-20-26-36-51

Hickok Electrical Instrument Co
10514 Dupont Ave Cleveland 8 Ohio 7-8-29

Hieatt Eng'g Co
2228 N Hollywood Way Burbank Calif 6

High Vacuum Equipment Corp
2 Churchill Rd Hingham Mass 43

Hill & Co E Vernon
P O Box 189 Lake Geneva Wisc 28

Hill Electronic Eng'g & Mfg Co
300 N Chestnut St Mechanicsburg Pa 19

Hoffman Electronics Corp
3761 S Hill St Los Angeles 7 Calif 17-31-34

Holland Electronics
772 E 53 St Brooklyn NY 1-8

Holt Instrument Labs Div Holt Harkwood Co Inc Quinto Wis	14-32	Librascope Inc Commercial Div 133 E Santa Anita Ave Burbank Calif	21	Northern Radio Co 143 W 22 St New York 11 NY	16
Ideal Arrowsmith Inc 3919 Evans Ave Cheyenne Wyo	28	Librascope Inc 898 Western Ave Glendale Calif	21	Norwood Controls Unit Detroit Controls Div American Standard	
IE Mfg 325 N Huynh Ave Chicago 12 Ill	6	Lico Inc 3610 Oceanview Rd Oceanside N Y	3-51	934 Washington St Norwood Mass	25-47
Illinois Testing Labs Inc 420 N LaSalle St Chicago 10 Ill	43	Ling Electronics Inc 9937 Jefferson Blvd Culver City Calif	34-50	NRD Instrument Co 9842 Manchester Rd St Louis 14 Mo	29-39
I-L-S Instrument Corp 455 W 100 St Cleveland 11 Ohio	70	Link Aviation Inc Binghamton NY	34	Nucleonic Corp of America 196 Dekraw St Brooklyn 31 NY	29
Industrial Research Labs Div Aerona Mfg Corp Hilltop & Frederick Rds Baltimore Md	20-26-27	Liton Industries of Calif 330 N Foothill Rd Beverly Hills Calif	21-31	Nvt Electronics Inc 2979 N Ontario St Burbank Calif	17-19
Int'l Radiant Corp 111 New York Ave Westbury NY	6	Liton Industries Components Div 3873 Rodeo Rd Los Angeles 16 Calif	11	Omega Labs Inc Haverhill St Rowley Mass	26-29-51
Industrial Test Equip Co 55 E 11th St New York 3 NY	13-15-20-36	L & B Mfg Co 577 Elm St Arlington NJ	47	Onad Electric Co 69 Murray St New York 7 NY	16-22
Industrial TV Inc 369 Lexington Ave Clifton NJ	18	McMillan Industrial Corp Brownsville Ave Ipswich Mass	2	Optimized Devices Inc Box 34 Galesville White Plains NY	13-15
Inson Co Div Hays Control Hollis St Groton Mass	21	Mack Electronics Div Inc 1000 S 2 St Plainfield NJ	1-47-51	Optimum Eng'g Co 2017 Willow St Grand Prairie Texas	21
Instruments Inc 127 N Madison St Tulsa Okla	29	Magnasynce Mfg Co 5516 Satsuma Ave N Hollywood Calif	32	Optron Corp 3526 State St Santa Barbara Calif	47-50
Insuline Corp of America 185 Grandis St Manchester NH	6	Magnetic Amplifiers Inc 632 Tinton Ave New York 55 NY	22-34-45	Ortho Filter Corp 196 Albion Ave Paterson 2 NJ	2-8-17-19
International Electronics Corp 81 Spring St New York 12 NY	11	Magnetic Instrument Co 516 Commerce St Thornwood NY	19-28-32-34	Pace Eng'g Co 6914 Heck Ave N Hollywood Calif	43-47
International Radiant Corp 111 New York Ave Westbury NY	6	Mandrel Industrial Instruments Div Mandrel Industries Inc 5134 Glenmont Dr Houston Texas	9-19	Pacific Scientific Co P O Box 22019 Los Angeles 22 Calif	47
International Research Associates 2221 Warwick Ave Santa Monica Calif	16	Manning Maxwell & Moore Inc Industrial Controls Div Shelter Rock Lane Danbury Conn	28-47	Packard Bell Electronics Corp 12333 W Olympic Blvd Los Angeles 64 Calif	13-14-15-17- 21-22-28-30-31
International Research & Development Corp P O Box 75 Worthington Ohio	19-28-31-30	Manson Laboratories Inc 207 Greenwich Ave Stamford Conn	20-26-30-31	Packard Instrument Co P O Box 428 La Grange Ill	39-40
International Resistor Corp 401 N Broad St Philadelphia 8 Pa	17-19	Marconi Instruments Ltd 111 Cedar Lane Englewood NJ	5-20-26-35	Painton & Co Ltd c/o British Electronic Sales Co Box 132 Oakland Gardens 64 NY	1-2-3
International Telephone & Telegraph Corp 2000 Stoner Ave Los Angeles 25 Calif	3	Mars Laboratories Inc 5 Fottler Rd Hingham Mass	47-48-50	Panoramic Radio Products Inc 620 Fulton Ave Mt Vernon NY	50
International Telephone & Telegraph Corp Industrial Products Div 250 Garabaldi Ave Lark NJ	1-3-13-20-35	Mast Development Co Inc 2212 E 12th St Davenport Iowa	8	Parr Mfg Corp 44 Austin St Newark 2 NJ	23-24-25
I-T-E Circuit Breaker Co Special Products Div 601 E Erie Ave Philadelphia 34 Pa	3-26-50	Mathew Labs 146 Riverdale Ave Yonkers NY	21	Peerless Photo Products Inc Shoreham LI NY	9
Jack Scientific Instrument Co Inc 143 Codrus St Selma Beach Calif	10	Maurer Inc 37-01 31 St Long Island City 1 NY	0-44	Perkin Eng'g Corp 345 Kansas St El Segundo Calif	22
Jackson Electronics Inc 23 Winderest Rd West Chester Pa	36	MB Mfg Co Div Textron Inc P O Box 1825 New Haven 11 Conn	50	Peschel Electronics Inc 13 Garden St New Rochelle NY	23-24-25
Jacobs Instrument Co 4718 Bethesda Ave Bethesda 14 Md	17	Measurement Eng'g Ltd 232 John St Annapolis Ontario Can	10-20-39	Petroff Corp Peret A 127 Water St New York 5 NY	37
Jarell-Ash Co 26 Farwell St Newtonville 60 Mass	29-40(4)-44	Meridian Metalcraft Inc 8739 S Millergrove Dr Whittier Calif	3-19-26	Phaenotron Instrument & Electronic Co 151 Pasadena Ave S Pasadena Calif	29
Jayco P O Box 616 Redlands Calif	29	Metronix Inc 75 Wilson Mills Rd Chesterland Ohio	8-15	Philamon Labs Inc 60 Hopper St Westbury LI NY	19-49
Jessco Electronics Corp 23 & Chestnut St Philadelphia 3 Pa	7	Mico Instrument Co 80 Trowbridge St Cambridge 38 Mass	26	Philbrick Researches Inc George A 230 Congress St Boston 10 Mass	15-21-22-27
Johnson Aircraft Eng'g Co Physical Services Div P O Box 10 Morristown NJ	25-24-25	Microlab Okmer Pkwy Livingston NJ	3-19-26	Phillips Electronics Inc 750 S Fulton Ave Mt Vernon NY	30
Johnson Co E P 796 E Ave S W Wausau Minn	3-51	Microphase Corp Box 1166 Greenwich Conn	19	Phoenix Precision Instrument Co 3803 N 5 St Philadelphia 10 Pa	5-39-40
Julie Research Lab 556 W 168 St New York 32 NY	36-38	Microtech Inc 2975 State St Hamden 17 Conn	8	Photobell Co 43 Vevay St New York 7 NY	47
J-V-M Eng'g Co 4633 S Lawndale Ave Lyons Ill	3-18-26-31-35-31	Microwave Associates Inc Burlington Mass	3-4-5-20-26-35-51	Polarad Electronics Corp 43-20 34 St Long Island City 1 NY	3-18-26-31-33- 38-39-42-51
Kahn & Co 341 Windsor St Hartford 1 Conn	19-46	Milgo Electronic Corp 7601 NW 37 Ave Miami 47 Fla	21-54	Polytechnic Research & Development Co 202 Tillary St Brooklyn 1 NY	3-4-5-19-20-26-51
Kay Electric Co 14 Maple Ave Pine Brook NJ	1-3-20-26-29-30-32-33	Millen Mfg Co James 150 Exchange St Malden 48 Mass	17-20-37-42-51	Pool Instruments Inc 150 Express St Dallas 21 Texas	28
Kerfoot Co Inc 1444 Oxford St Van Nuys Calif	19-26-31	Millipore Filter Corp 36 Pleasant St Watertown 72 Mass	19	Potter Aeronautical Corp Route 22 Union NJ	16-20-47
K-F Development Co 2606 Spring St Redwood City Calif	34	Minnaport Corp Relle Mead 9 NJ	47	Potter Instrument Co Sunnyside Blvd Plainview NY	10-11-20-47
King Laboratory Inc 2645 So 2nd West Salt Lake City 15 Utah	49	Mine Safety Appliances Co 201 N Braddock Ave Pittsburgh 8 Pa	12	Precise Measurements Corp Rd 1 Millbrook Rd Flemington NJ	29-39
King Electronics Co Inc 40 Marbledale Rd Tuckahoe NY	5-20	Minn-Honeywell/Helland Div 5200 E Evans Ave Denver 22 Colo	60	Precision Scientific Co 3737 W Cortland St Chicago 47 Ill	6
Kingston Electronic Corp North St Medfield Mass	29-45	Minn-Honeywell/Regulator Co Instruments Div Wayne & Windrim Aves Philadelphia 44 Pa	43	Press Wireless Labs Inc 25 Prospect Pl W Newton 65 Mass	31-50
Kistler Instrument Corp 15 Webster St N Tonawanda NY	12-28-29-47-50	Missileonics Inc P O Box 716 Melbourne Fla	30	Process & Instruments 15 Stone Ave Brooklyn 38 NY	39-40
Kollman Instrument Corp Standard Coil Products Sub 80-06 45 Ave Elmhurst 73 NY	42	Missouri Research Labs Inc 2109 Locust St St Louis 3 Mo	31	Producers Sales Corp 2704 W Olive Ave Burbank Calif	9
Laboratory For Electronics Inc 75 Pitts St Boston 14 Mass	16-20-26-30-31-41-42	Model Eng'g & Mfg Inc 50 Frederick St Huntington Ind	1-8-26	Production Research Corp Thornwood NY	20
Lambda-Pacific Eng'g Inc 14725 Arminta St Van Nuys Calif	20	Moran Instrument Corp 170 E Orange Grove Ave Pasadena 3 Calif	20-34	PSC Applied Research Ltd 1500 O'Connor Dr Toronto 16 Canada	9
Lambkin Labs Inc R F D 1 Bradenton Fla	30	Muthrad Instruments Inc 877 5 Ave New York 22 NY	1-20-29-34-48	Pye Canada Ltd 82 Northline Rd Toronto 16 Ontario Canada	1-2-3-20- 26-39-40-41
Land-Air Inc Instrument & Electronic Div 2133 Adams Ave San Leandro Calif	9	Narda Microwave Corp 118-160 Herricks Rd Minersia NY	1-3-4-6-20-26-29-31-35	Pye Telecommunications Ltd Newmarket Rd Cambridge Engld	18-26
Lansing Sound Inc James R 3249 Casitas Ave Los Angeles 39 Calif	47	National Spectrographic Labs Inc 6300 Euclid Ave Cleveland 3 Ohio	40-41	Pyrometer Instrument Co 92 Portland Ave Bergenfield NJ	43
Layne Labs Inc Matavan-Freehold Rd Morzanville NJ	20-42	Navigation Computer Corp 1621 Snyder Ave Phila Penna	30	Radar Design Corp 2360 James St N Syracuse 12 NY	3-20-26-31-35-51
Leas Inc 3171 S Bundy Dr Santa Monica Calif	19-34	Nevada Air Products Co P O Box 2472 Reno Nev	26-31	Radiation Inc P O Box 37 Melbourne Fla	20
Leas Inc 110 Ionia Ave N W Grand Rapids 2 Mich	34	Nichols Products Co 925 W Main St Moorestown NJ	29-31-35-51	Radio City Products Co Centre & Glendale Sts Easton Pa	8-18-20-27-29-31
Leeds & Northrup Co 4870 Stenton Ave Philadelphia 44 Pa	30-40-43	Non-Linear Systems Inc Del Mar Airport Del Mar Calif	13-15	Radio Corp of America Commercial Electronic Products Front & Cooper sts Camden NJ	17-19-20-29-51
Lehigh Valley Electronics Eng'g & Mfg Co 215 S 3 St Allentown Pa	6-20-29	Norlen-Ketay Corp Precision Components Div 6 Jericho Tpk Commack NY	34	Radio Electron Tube Div 415 S 5 Harrison NJ	7-8-20-29
Leland Electric Co Aircraft Products Plant 740 E National Rd Vandalia Ohio	16-22	Norram Laboratories Ernst Williams Bay War Northam Electronics Inc	27	Rahm Instruments Inc 287 Lafayette St New York 12 NY	34-46
Lel Inc 380 Oak St Coniague NY	51	North American Instruments Inc 2420 N Lake St Altadena Calif	28-32-46	Ram Meter Inc 1100 Hilton Rd Ferndale 20 Mich	20-50
Levinthal Electronic Products Inc 3180 Hanover St Palo Alto Calif	26	North Atlantic Industries Inc 603 Main St Westbury NY	84	Ramo-Wooldrige Corp Electronic Instrumentation Div P O Box 8405 Denver 10 Colo	16-22-26-31

Rayco Electronic Mfg Inc 11116 Cumpston St N Hollywood Calif	17	Statistical Instr Co 330 Haven Ave New York 33 NY	15-19	Tullamore Electronics Lab 6055 S Ashland Ave Chicago 36 Ill	21-30
Raytheon Mfg Co Commercial Equip Div 190 River St Waltham 54 Mass	18-19-26	Steiner-Ives Co Springfield Rd Union NJ	6	Tuttle & Kift Inc 1823 N Monitor Ave Chicago 39 Ill	43
Rae Co J H 1723 Cloverfield Blvd Santa Monica Calif	28-29-30-31-34-47-48	Sievens Mfg Co P O Box 1007 Mansfield Ohio	43	TV Specialty Co 350 W 31 St New York 1 NY	9
Reed & Reese Inc 717 N Lake Ave Pasadena 6 Calif	17-34-49	Stewart Warner Electronics Div 1300 N Kostner Ave Chicago 51 Ill	17-18-19	UAC Electronics Div Universal Translator Prods Corp 50 Bond St Westbury LI NY	16
Reeves Instrument Corp Roosevelt Field Garden City NY	34-47	Sticht Co Herman H 27 Park Pl New York 7 NY	10	Ultradyn Eng'g Labs P O Box 3308 Albuquerque NM	47
Reflectone Corp Boston Post Rd Stamford Conn	21-30	Stoddart Aircraft Radio Co 6644 Santa Monica Blvd Hollywood 38 Calif	3-20-26	Ultronix Inc 116 S Bayshore Blvd San Mateo Calif	39
Republic Aviation Corp Farmingdale LI New York	15-23-24-33-34	Stremple Instrument Corp Lake George NY	13	Union Switch & Signal Div 1789 1407 Braddock Ave Swissville P O Pittsburgh 8 Penna	10
Reidel Eng'g Corp 330 S Fair Oaks Ave Pasadena Calif	6-27-31	Studebaker Hydraulic Products Co 1733 N 33 Ave Melrose Park Ill	28	United Mineral & Chemical Corp 16 Hudson St New York 13 NY	1-3-13-36-37-38
Research Industrial Lab of Electronics Roslyn Pa	30	Surrup Inc 50 Silver St Middletown Conn	17	United Transformer Corp 150 Varick St New York 13 NY	17-19-37
Rese Eng'g Inc 731 Arch St Philadelphia 4 Pa	15-30	Sun Electric Corp Harlem & Avondale Ave Chicago 31 Ill	13-22-30	Univac Inc 109 Marine St Farmingdale NY	3-4-5-26-35-51
Revere Corp of America N Colony Rd Wallingford Conn	43-47	Systems Development Inc 307 Water St Binghamton NY	24	U S Plastic Molding Corp Carlton St Wallingford Conn	13
Rheon Mfg Co Electronics Div 7777 Industry Ave Downey Calif	31	Systron Corp 2055 Concord Blvd Concord Calif	10-11-13-15-16-20	Vacuum Tube Products Co 2920 Short St Oceanside Calif	43
Rich Electronics Inc 212 NW 8 Ave Miami 36 Fla	32-34	Taffet Radio & TV Co 27-05 Brooklyn-Queens Expressway W Woodside 77 NY	1	Vanguard Electronics Co 3384 Motor Ave Los Angeles 34 Calif	17
Riverbank Labs Eng'g Dept P O Box 66 Geneva Ill	20-49	Ta-Mar Inc 11571 W Jefferson Blvd Culver City Calif	35	Van Norman Industries Inc Electronics Div 156 Granite St Manchester NH	26
Rufan Co Topfield Mass	47	Tatnall Measuring Systems Co P O Box 245 Phoenixville Pa	47	Varian Associates 611 Hansen Way Palo Alto Calif	39
Rosemount Eng'g Co 9424 Lyndale Ave S Minneapolis 20 Minn	47	Taylor Instruments Companies 95 Ames St Rochester 1 NY	28-32-43-47	Vectron Mfg Co 2201 Walnut St Garland Texas	16-19-20-22-49
Royco Instruments 720 Arthur St Albany Calif	43	Tech Labs Inc Hergen & Edsall Blvd Palisades Park NJ	1-2-3-19-34	Vectron Inc 1611 Trapelo Rd Waltham 54 Mass	26-31
Royco Instrumenta Inc 871 Fabian Way Palo Alto Calif	43	Technical Appliance Corp 1 Taco St Sherburne NY	1-2	Venner Electronics Ltd Kingston Hy-Road New Malden Surrey England	20
Rue Products 1628 Venice Blvd Venice Calif	19-22-33-37-38	Technical 48 Corp 1057 N La Brea Los Angeles 38 Calif	10-21-26	Vibrascope Co P O Box 97 Glenford NY	50
Ruge Associates Arthur C 733 Concord Ave Cambridge 28 Mass	38	Technical Products Co Instrument Div 6670 Lexington Ave Los Angeles 34 Calif	29-30	Vickers Inc Electric Products Div 1857 Locust St St Louis 7 Mo	22
Rutherford Electronics Co 8944 Lindblade St Culver City Calif	30	Technitrol Labs Inc Thomaston Waterbury Rd Thomaston Conn	17-31-35	Victor RF & Microwave Co 36 W Water St Wakefield Mass	3-5-26
Sage Labs Inc 159 Linden St Welleley 81 Mass	51	Technitrol Eng'g Co 1952 E Allegheny Ave Philadelphia 34 Pa	17-30	Victory Eng'g Co 121 Springfield Rd Union NJ	6-12-28-29-38-47
Sanborn Co 175 Wyman St Waltham 54 Mass	48	Tektronix Inc P O Box 431 Portland 7 Ore	29	Voron & Co George 835 N 19 St Philadelphia 30 Pa	1-19-51
Sangamo Electric Co 1207 N 11th St Springfield Ill	16-22	Telechrome Mfg Corp 28 Ranick Dr Amityville LI NY	9-26-40	Wabash Metal Products Co 1569 Morris St Wabash Ind	43
Saratoga Industries Congress & Ballston Aves Saratoga Springs NY	17-19-49	Teletro Industries Corp 35-13 27 St Long Island City 1 NY	1-3-7	Wachter Inc 35 S St Clair St Dayton 2 Ohio	3-20-26-29-31-34-35-50-51
Schaffer Air Industries 290 N Henry St Brooklyn 22 NY	6	Telmarine Communications Co 140 W Broadway New York 13 NY	18-20-49	Waldorf Instrument Co Div F C Huyck & Sons Park Ave Huntington Station NY	13-14-16-21-26-28-31-34-51
Scientific-Atlanta Inc 2162 Piedmont Rd N E Atlanta 9 Ga	26	Telomatic Industries Inc 16 Howard Ave Brooklyn 7 NY	3	Walcraft Inc 141 W Bond St Inglewood 3 Calif	16-30
Scientific Glass Apparatus Co 100 Lakewood Terrace Bloomfield NJ	39-40	Telephonic Corp Park Ave Huntington LI NY	18-47	Walsham Precision Instrument Co 221 Crescent St Waltham 54 Mass	10-11
Sensitive Research Instrument Corp 310 Main St New Rochelle NY	43	Telerad Mfg Corp Route 69 Flemington NJ	3-5-20-26-29-30-31-35	Waltham Screw Co 77 Rumford Ave Waltham 54 Mass	29
Sensory Inc 10 New St Morristown NJ	37	Telerad Mfg Corp 140 Broadway New York 18 NY	3-4-5-19-20-26-30-31-35-51	Wang Labs Inc 37 Hurley St Cambridge 41 Mass	30
Servo Corp of America 2020 Jericho Turnpike New Hyde Park NY	5-18-34	Tel-Instrument Electronics Corp 728 Garden St Carlstadt NJ	7-16-17-50	Warman Products Co 2445 Emerald St Philadelphia 26 Pa	42
Servomechanisms Inc 12500 Aviation Blvd Hawthorne Calif	34-47	Telonic Industries Inc 73 N 2 Ave Hensch Grove Ind	8-19-31	Waugh Eng'g Co 7842 Burnet Ave Van Nuys Calif	20-47
Servonic Instruments Inc 640 Terminal Way Costa Mesa Calif	47	Tel-Rad Electronics Corp 127-20 Rockaway Blvd S Ozone Park 20 LI NY	37-39	Waveline Inc P O Box 719 Caldwell NJ	3-20-26-29-31-35-51
Servonics Inc 822 N Henry St Alexandria Va	21-34	Temperature Eng'g Corp U S Hwy 130 Riverton NJ	6	Wayne-Kepp Inc P O Box 501 Phila 5 Pa	26
Servo-Recording Instruments Inc 1815 W Van Buren St Phoenix Ariz	30	Tenny Eng'g Inc 1090 Springfield Rd Union NJ	6	Weinschel Eng'g 10503 Metropolitan Ave Kensington Md	3-26
Servo Systems Co 55 Meeker Ave Newark 12 NJ	34	Thale Eng'g Corp 2164 E Villa St Pasadena Calif	43	Welch Scientific Co W M 1515 Sedgwick St Chicago 10 Ill	49
Servo-Tek Products Co 1086 Goffe Rd Hawthorne NJ	21-34	Thermo Electric Co 109 S St Saddle Brook NJ	43	West Coast Research Corp 2371 1/2 Westwood Blvd Los Angeles 54 Calif	28-30-34
Shallcross Mfg Co Jackson & Pusey Aves Collingdale Pa	3-17-23-24	Thermo Electric Mfg Co 6112 Huff St Dubuque Iowa	43	Western Coil Products Co 869 Commercial St Palo Alto Calif	17
Shure Bros 222 Hartrey Ave Evanston Ill	47-50	Theta Instrument Corp 48 Pine St E Paterson NJ	15-34	Western Electro Acoustic Lab Inc 11789 San Vicente Blvd Los Angeles 49 Calif	19
Sierra Electronic Corp 3885 Hohannon Dr Menlo Park Calif	19-28-26-44	Thompson Products Inc Electronics Div 2196 Clarkwood Rd Cleveland 3 Ohio	34	Western Gear Corp Electro Products Div 132 W Colorado St Pasadena 1 Calif	22
Simmonds Aerosecurities Inc Vergennes Vt	36	Thwing Albert Instrument Co 5351 Palucki Ave Phila 4 Pa	5	Westinghouse Electric Co Div Air Arm Div P O Box 746 Friendship Intl A P Baltimore Md	31
Simpson Electric Co 5200 W Kinzie St Chicago 44 Ill	29	Thyng Industries Inc 8507 Wilshire Blvd Beverly Hills Calif	22	Westinghouse Electric Corp P O Box 868 Pittsburgh 30 Pa	16-20-22-31-32
Slaughter Co Young and Collie Sta Piqua 9 Ohio	13-14-15	Transwick Inc 1601 Trapelo Rd Waltham 54 Mass	23-29	West Instrument Corp 4863 W Monroe Ave Chicago 41 Ill	43
Solartron Electronic Group Ltd Queens Rd Thames Ditton Surrey England	1-3-26-34-39-50-51	Trad Television Co 1001 First Ave Asbury Park NJ	3	Weston Electrical Instrument Corp 814 Frelinghuysen Ave Newark 12 NJ	42-43
S O B Cinema Supply Corp 602 W 52 St New York 19 NY	9	Transdyne Corp 58-15 57th Dr Masspeth 78 NY	18	Weymouth Instrument Co 1440 Commercial St E Weymouth 89 Mass	5-20-26-51
Southwestern Industrial Electronics Co 2831 Post Oak Rd Houston 19 Texas	9-17-19-27-47-48-49-50	Trans Electronics Inc 7349 Canoga Ave Canoga Park Calif	15	White Electron Devices Inc Rorer 92 4 Ave Haskell NJ	26
Specialty Eng'g & Electronics Co 19 Clifton Pl Brooklyn 38 NY	16-29-30-31	Transformer Technicians Inc 2608 N Cicero Ave Chicago 39 Ill	19	Whitewater Electronics Inc 136 Main St Whitewater Wisc	17
Spencer-Kennedy Labs Inc 1320 Soldiers Field Rd Boston 35 Mass	3-16-19-30	Transformers Inc 200 Stage Rd Vestal NY	15	Wincko Eng'g Co 255 Halstead St Pasadena Calif	28-47
Sperry Gyroscopic Co Marine Div Roosevelt Field Mineola NY	31-34	Translator Devices Inc 180 Blvd Kenilworth NJ	16-22	Wincharger Corp E 7 & Division St Sioux City 2 Iowa	16-22
Sprague Electric Co Marshall St North Adams Mass	36	Transitron Inc 186 Granite St Manchester NH	3-20	Winkler Labs 5225 N 20 St Phoenix Ariz	29
Standard Electronics Div Radio Eng'g Labs 30 & Borden St Long Island City NY	16-26	Tresco Inc 3824 Terrace St Philadelphia 28 Pa	37	Winslow Co 701 Lehigh Ave Union NJ	20-38-43
Stanadar Electronic Research Corp 2 E End Ave New York 21 NY	20-21	Trimount Instrument Co 3119 W Lake St Chicago 12 Ill	28	Workman TV Inc 809 Queen Anne Rd Teaneck NJ	38
Statham Labs Inc 12401 W Olympic Blvd Los Angeles 64 Calif	28-47-50	Tripl-T Electronics Co Box 5352 Pasadena Calif	30	Wright Equipment Co 128 N Main St Milltown NJ	31
				Wyeth Eng'g Inc 9911 Walden Pkwy Chicago 43 Ill	19

45—MEASUREMENT & TEST EQUIPMENT—STANDARDS

Standards, capacitance	1
Standards, frequency	2
Standards, inductance	3
Standards, phase	4
Standards, resistance	5
Standards, temperature	6
Standards, time	7
Standards, voltage	8

Acton Laboratories 533 Main St Acton Mass	4
Aerovox Corp 740 Belleville Ave New Bedford Mass	1
Airmec Ltd High Wycombe Buckinghamshire England	2-7
Allegheny Instrument Co 1091 Wills Mountain Cumberland Md	7
American Machine & Foundry Co Defense Products Group 1101 N Royal St Alexandria Vt	2
American Time Products Inc 580 S Ave New York 36 NY	2-7
Associated Missile Products Sub American Mch & Fdry 2700 N Garey Ave Pomona Calif	8
Bornes Development Corp 213 W Baltimore Ave Lanadowne Pa	5
Hiddle Co James G 1316 Arch St Philadelphia 7 Pa	2-5
Billy Electric Co Union Station Bldg Erie Pa	2
Boonton Electronics Corp 738 Snowden Ave Morris Plains NJ	1
Boonton Radio Corp Interwale Rd Boonton NJ	8
Borg Equip Div George W Borg Corp 120 S Main St Janesville Wisc	2
Calidone Co 120 Cross St Winchester Mass	2
Cardinal Instrumentation Corp 1201 Redwood Ave Los Angeles 66 Calif	6
Central Scientific Co of Calif 1040 Martin Ave Santa Clara Calif	1
Collins Radio Co 855 35 St NE Cedar Rapids Iowa	2
Conn Organ Corp 355 E Jackson Blvd Elkhart Ind	2
Consolidated Controls Corp 1 Durant Ave Bethel Conn	8
Crescent Eng'g & Research Co 5440 N Park Rd El Monte Calif	1
Datascan Inc 48 Nutch Rd Little Falls NJ	1
Davenport Mfg Co 1713 N Ashland Ave Chicago 22 Ill	8
Demonay-Bonardi Corp 780 S Arroyo Pkwy Pasadena Calif	2
Designers For Industry 1231 Fulton Pkwy Cleveland 9 Ohio	2
D & R Ltd 402 E Gutierrez St Santa Barbara Calif	2
Eunlap Electronics 761 9 St Des Moines 14 Iowa	2
Eberline Instrument Div Reynolds Electrical 805 Early St Santa Fe New Mexico	7
Electro Instrument Inc Aero Ct San Diego Calif	5-8
Electronic Measurements Co Lewis St & Maple Ave Eatontown NJ	8
Engelhard Inc Charles 850 Passaic Ave E Newark NJ	6
Engineering Associates 434 Patterson Rd Dayton 9 Ohio	2
Epsco Inc 588 Commonwealth Ave Boston 15 Mass	8
Fecker Inc J W 6592 Hamilton Ave Pittsburgh 6 Pa	2
Fluke Mfg Co John 1111 W Nickerson St Seattle 90 Wash	8
Foto-Video Labs Inc 25 Amity St Little Falls NJ	4-7
Frequency Standards Inc P O Box 504 Asbury Park NJ	2
Furzehill Labs Ltd 57 Clarendon Rd Watford England	7
Gaertner Scientific Corp 1250 Wrightwood Ave Chicago 14 Ill	7
General Radio Co 275 Massachusetts Ave Cambridge 39 Mass	1-2-3-5
Geotechnical Corp 3712 Haggard Dr Dallas 9 Texas	2-7
Geotech Products Inc 3211 La Granga Blvd Los Angeles 25 Calif	2-4-8
Gordon Enterprises 5362 N Cabuena Blvd N Hollywood Calif	7
Gray Instrument Co 200 E Church Lane Philadelphia 44 Pa	5
Gulton Industries Inc 212 Durham Ave Metuchen NJ	8
Hamilton Watch Co Allied Products Div Columbia Ave Lancaster Pa	2
Harris Transducer Corp Box 247 Woodbury Conn	2
Haydon Co A W 232 N Elm St Waterbury 20 Conn	7

Hewlett-Packard Co 275 Page Mill Rd Palo Alto Calif	2
Hill & Co E Vernon P O Box 189 Lake Geneva Wisc	6
Hill Electronic Eng'g & Mfg Co 300 N Chestnut St Mechanicsburg Pa	2
Holland Electronics 772 E 53 St Brooklyn NY	2
Holt Instrument Labs Div Holt Harkwood Co Inc Oconto Wisc	8
Ind Test Equip Co 65 E 11th St New York 3 NY	2-4
International Radiant Corp 111 New York Ave Westbury NY	6
International Telephone & Telegraph Corp Industrial Products Div 250 Garibaldi Ave Lodi NJ	1-2-5-7
Julie Research Labs 556 W 168 St New York 32 NY	1-5-8
Lavoie Labs Inc Matawan-Freehold Rd Morganville NJ	2
Leeds & Northrup Co 4970 Stenton Ave Philadelphia 44 Pa	1-3-5-6-8
Muelond & Hanopol 100 Roland St Charlestown 29 Mass	1
Manson Laboratories Inc 207 Greenwich Ave Stamford Conn	2-6
Marconi Instruments Ltd 111 Cedar Lane Englewood NJ	2
Measurement Eng'g Ltd 232 John St Arnprior Ontario Can	2
Metronix Inc Mill Lane Waterford Conn	2
Minn-Honeywell Regulator Co Instruments Div Wayne & Windrim Aves Philadelphia 4 Pa	5
Minn-Honeywell Regulator Co Rubicon Instruments Ridge Ave at 35 Sta Philadelphia 32 Pa	5
Muirhead Instruments 677 S Ave New York 22 NY	1-2-5-8
Network Mfg Corp 213 W 5 St Hayswone NJ	1
Norman Laboratories Ernst Williams Hwy Wisc	2-7
Owen Labs Inc 55 Beacon Pl Pasadena Calif	8
Parsons Co Ralph M Electronics Div 151 S De Lacey Ave Pasadena Calif	7
Perkin Eng'g Corp 345 Kennas St El Segundo Calif	8
Phoatron Instrument & Electronic Co 151 Pasadena Ave S Pasadena Calif	8
Philamon Labs Inc 90 Hopper St Westbury LI NY	2
Physics Research Labs Inc P O Box 555 Homestead NY	5
Polarad Electronics Corp 43-20 34th St Long Island City NY	2
Precision Crystal Lab 2223 Warwick Ave Santa Monica Calif	2
Pvc Canada Ltd 92 Northline Rd Toronto 16 Ontario Canada	5
Pvc Telecommunications Ltd Newmarket Rd Cambridge England	2
Pyrometer Instrument Co 92 Portland Ave Hergenfeld NJ	6
Radiation Inc P O Box 37 Melbourne Fla	8
Riverbank Labs Hemgnt Dept P O Box 65 Geneva Ill	2
Sangamo Electric Co 1207 N 11th St Springfield Ill	1
Saratoga Industries Congress & Ballston Aves Saratoga Springs NY	2
Sensitive Research Instrument Corp 310 Main St New Rochelle NY	2
Shalleross Mfg Co Jackson & Punev Aves Collingdale Pa	5
Simmonds Aerospace Inc 105 White Plains Rd Tarrytown NY	1
Simmonds Aerospace Inc Vergennes Vt	15
Southwestern Industrial Electronics Co 2831 Post Oak Rd Houston 19 Texas	2
Stanadar Electronics Research Corp 2 E End Ave New York 21 NY	2
Stewart Instrument Co 6507 Grand River Detroit 8 Mich	7
Taylor Instruments Companies 95 Anes St Rochester 1 NY	6
Tech Labs Bergen & Ebsall Blvd Palisades Park NJ	6
Telesco Industries Corp 35-19 37 St Long Island City 1 NY	1
Textran Corp Box 4252 Austin 51 Texas	2-7
Theta Instrument Corp 48 Pine St E Paterson NJ	4
Times Facsimile Corp 540 W 58 St New York 19 NY	2
Ultronix Inc 118 S Haysshore Blvd San Mateo Calif	5
United Transformer Corp 150 Varick St New York 13 NY	3
Van Norman Industries Inc Electronics Div 186 Granite St Manchester NH	2
Varo Mfg Co 2201 Walnut St Garland Texas	2-4
Weymouth Instrument Co 1440 Commercial St E Weymouth 89 Mass	2
Winder Aircraft Corp of Fla P O Box 2397 Drane Fld Lakeland Fla	1
Winslow Co 701 Lehigh Ave Union NJ	5

46—MEDICAL ELECTRONIC EQUIPMENT

Analyzers, cell	27
Ballistocardiographs	1
Blood counters	28
Blood pressure recorders	2
Diathermy accessories	3
Diathermy equipment	4
Electro cardiographs	5
Electro cauterizers	6
Electro cephalographs	7
Electro myographs	8
Electro sedative generators	9
Electro shock machines	10
Electro surgical equip	11
Eplators	12
Fluorescent machines	13
Germicidal lamps	14
Heating elements	15
Hemoglobin meters	16
Microscopes, electron	17
Microscopes, ultra violet	29
Oscillometers	18
Phonocatheters	30
Psychogalvanometers	19
Radiactivity equip	20
Stethographs & stethophones	21
Stimulators	22
Ultrasonic equip	23
X-ray cameras	24
X-ray equipment	25
X-ray equipment, photographic	26

Armo Electric Heating Co 1217 Washington St Boston 18 Mass	15
Acoustica Associates 26 Windsor Ave Mineola NY	23
Admiral Corp 3880 W Cortland St Chicago 47 Ill	20
Aerolux Light Corp 653 11 Ave New York 36 NY	11
Aircon Inc 139 E First Ave Roselle NJ	26
Alear Instruments Inc 17 Industrial Ave Little Ferry NJ	23
American Synoscope Makers Inc 8 Pelham Pky Pelham Manor NY	3-4-5-6-8-11-22-23-30
American Electronic Laboratories 121 N 7 St Philadelphia 6 Pa	10-22-30
American Machine & Foundry Co Defense Products Group 1101 N Royal St Alexandria Va	20-26
American Mew Insulation Co 215 Parker Ave Manassas NJ	15
American Optical Co Instrument Div Itox A Buffalo 15 NY	16-28-29
Anton Electronic Labs 1226 Flushing Ave Brooklyn 37 NY	20
Applegate & Co C J 1840 24 St Boulder Colo	22
Art Specialty Co 3245 W Linke St Chicago 24 Ill	14
Associated Research Inc 3777 W Belmont Ave Chicago 18 Ill	19
Atomic Accessories Inc 244-02 Jamaica Ave Bellerose 26 NY	20
Audion Electronics Inc 216 Lyon St Paterson 4 NJ	4-23
Automation Instruments Inc Industrial Pk Boulder Colo	2-23-30
Aviation Electronic Service N 12 St Wheeling Ill	9-10-22
Bach & Co Simon 636 Greenwich St New York 14 NY	25
Barclay-Atomic Inc 209 University Rd Cambridge 38 Mass	20
Baltec Electric Corp New and Meadow Sta Stamford Conn	24-25-26
Barkley & Dexter Labs 50 Frankfort St Fitchburg Mass	20
Bar-Ray Products Inc 209 25th St Brooklyn 32 NY	20-36
Beattie-Coleman Inc 1000 N Olive St Anaheim Calif	21
Hendix Aviation Corp 1104 Fisher Bldg Detroit 2 Mich	28
Biophysical Instruments Inc 20 Herman St Philadelphia 44 Pa	2-5-19-25
Birtcher Corp Industrial Div 4371 Valley Blvd Los Angeles 32 Calif	2-4-5-11-14
B J Electronics Borg-Warner Corp 3300 Newport Ave Santa Ana Calif	20
Black Light Corp of America 5114 Walnut Grove Ave San Gabriel Calif	14
Black Light Eastern Corp 33-00 Northern Blvd Bayside 61 NY	14
Bolton Labs Inc W Main St Bolton Mass	26
Boulette Co P O Box 73 Huntington Sta NY	18
Bracke Seib X Ray Co 16 Pelham Hwy Pk W Pelham Manor NY	13-21-25-26

Hurdick Corp	635 Plumb St Milton Wisc	3-4-5-10-11-15-22-23
Cambridge Instrument Co	Grand Central Terminal New York 17 NY	5-21
Campbell X-Ray Corp	110 Cummings St Boston 15 Mass	26
Cavitron Electron Oscillator Co	Div Short Wave Plastic Forming 365 N Newport Blvd Newport Beach Calif	23
Central Scientific Co of Calif	1040 Martin Ave Santa Clara Calif	16
Central Scientific Co of Canada Ltd	146 Kendal Ave Toronto 4 Ont Canada	16-28
Century Coil Corp	1534 N Clybourn Ave Chicago 10 Ill	25
Clegg Labs Div Clegg Inc	Ridgedale Ave Morristown NJ	26
Continental X-Ray Corp	1536 N Clybourn Ave Chicago 10 Ill	13-25
Corbett Science Labs F W	3117 Venice Blvd Los Angeles 19 Calif	5-7-10-11-12-21-23-23
Coulter Electronics Corp	5227 N Kenmore Chicago 40 Ill	28
Cox & Co	115 E 23 St New York 10 NY	15
Dale Hosen Co	2928 Nebraska Ave Santa Monica Calif	15
Dallons Labs	5066 Santa Monica Blvd Los Angeles 29 Calif	3-4-5-11- 12-14-15-22-23
Decker Corp	45 Monument Rd Bala Cynwyd Penna	2
Designers for Industry	4241 Fulton Pkwy Cleveland 9 Ohio	6
Edin Co	207 Main St Worcester 8 Mass	2-5-7
Electrodyn Co	Endicot St Norwood Mass	5-10-22
Electro-Medical Lab Inc	S Woodstock 10 Vt	7-8-19-21-22
Electronic Tube Corp	1200 E Mermaid Lane Phila 18 Pa	7-18
ETronics Inc	Penn Ave Mayfield Pa	20
Ercona Corp	651 Fifth Ave New York 17 NY	17-29
Fairchild Camera and Instrument Corp	Robbins La Svoast NY	24-26
Farrand Controls Inc	4601 Bronx Blvd New York 70 NY	16-17
Fischer & Co H G	9451 W Belmont Ave Franklin Park Ill	3-4-23-25
Fischer & Co R A	517 Commercial St Glendale 3 Calif	4-23
Fisher Co Inc Oscar	P O Box 426 Newburgh NY	26
Frequency Standards Inc	P 29 Box 604 Asbury Park NJ	26
F-R Machine Works Inc	Electronic & X-Ray Div 26-12 Borough Pl Woodside 77 NY	25
General Electric Co	Apparatus Siss Div 1 River Rd Schenectady 5 NY	15
General Electric Co X-Ray Dept	4855 Electric Ave Milwaukee 1 Wisc	5-13-17-20-24-25-26
General RF Fittings Inc	702 Beacon St Boston 15 Mass	8
G & M Equipment Co	7315 Varma Ave N Hollywood Calif	26
Geotechnical Corp	8712 Hagar Dr Dallas 9 Texas	1
Gerlyn Eng'g Co	5800 N Damen Ave Chicago 47 Ill	29
Grafex Inc	154 Clariassa St Rochester 8 NY	26
Grason-Stadler Co.	W Concord Mass	19
Hamilton Watch Co Hathaway Inat Div	5800 E Jewell Denver 22 Colo	2
Good Electronic Corp	17-19 Brooks St Newton 58 Mass	27
Gulton Industries Inc	212 Durham Ave Metuchen Ave NJ	1-2-30
Hall Sonic Eng'g Co	2402 2 St Peru Ill	23
Hamilton Watch Co Allied Products Div	Columbia Ave Lancaster Pa	2
Hamner Electronics Co	Princeton NJ	20
Hanovia Lamp Div Englehart Industries Inc	100 Chestnut St Newark 5 NJ	13-14
Hellige Inc	877 Stewart Ave Garden City NY	16
High Voltage Eng'g Corp	Burlington Mass	25
Industrial Development Labs Inc	17 Pollock Ave Jersey City 5 NJ	1
Isotope Accessories Co	5950 Irving St Phila 43 Pa	20
Isotopes Specialties Co	Box 688 Burbank Calif	20
I-T-E Circuit Breaker Co	Special Products Div 601 E Erie Ave Philadelphia 34 Pa	26
Jarrell-Ash Co	26 Farwell St Newtonville 60 Mass	25
King Laboratory Inc	2645 So 2nd West Salt Lake City 15 Utah	23
Kemite Labs Inc	1819 W Grand Ave Chicago 22 Ill	14-25-26
Lab-Tronics Inc	3656 N Lincoln Ave Chicago 18 Ill	22

Lambda-Pacific Eng'g Inc	14725 Arminia St Van Nuys Calif	26
Land-Air Inc Instrument & Electronic Div	2133 Adams Ave San Leandro Calif	20-28
Land-Air Inc	7444 W Wilson Ave Chicago 31 Ill	25
Landsverk Electrometer Co	641 Sonora Ave Glendale 4 Calif	20
Loedal Inc	2929 S Halsted Chicago Ill	26
Lektra Labs Inc	621 NY Ave NW Washington 1 DC	1
Lektra Labs Inc	154 11 Ave New York 11 NY	10
Levinthal Electronic Products Inc	3180 Hanover St Palo Alto Calif	5-10
Litton Industries of Calif	336 N Foothill Rd Beverly Hills Calif	25
Litton Industries of Md Inc	4910 Calvert Rd College Park Md	24
Logetronics Inc	300 E Monroe Ave Alexandria Va	26
L & R Mfg Co	577 Elm St Arlington NJ	23
Luckenbach & Co Paul	312 W 23rd St New York 63 NY	3-4-11-12-22
Mackay Research Labs	RR 2 Box 401 McHenry Ill	25
Magnetic Instrument Co	545 Commerce St Thornwood NY	2-5-7-8-18-21-30
Maico Co Inc	21 N 3rd St Minneapolis 1 Minn	21
Master Development Co Inc	2212 E 12th St Davenport Iowa	26
Measurement Eng'g Ltd	232 John St Windsor Ontario Can	10-20-22
Moderat Electronic Corp	426 Great East Neck Rd Babylon NY	7-8-10-19-22-23
Menlo Research Lab	538 Phelan Ave San Jose Calif	13
Minkella Infra-Red Co	E 73 & Grand Ave Cleveland 4 Ohio	15
Model Eng'g & Mfg Inc	50 Frederick St Huntington Ind	5
Modern Laboratory Equip Co	1811 1 Ave New York 28 NY	15
Mynaghham Co J J	501 Alcott St Denver 4 Colo	3-4-11-22
Mooradian High Frequency Labs	13 E Fort Lee Rd Bogota NJ	3-4-11-22
National Instrument Labs Inc	*28 Evaria St NE Washington DC	17
National Spectrographic Labs Inc	6300 Euclid Ave Cleveland 3 Ohio	26
National X-Ray Products Corp	71 S Newman St Hackensack NJ	24-25-26
Nevada Air Products Co	P O Box 2472 Reno Nev	7-11-19-20-22-23-26
New England Nuclear Corp	578 Albany St Boston 18 Mass	20
New York Mfg & General Supply Co	10-24 Jackson Ave Long Island City 1 NY	14
Nucro Products Mfg Co	392 Bleecker St New York 14 NY	13-14-29
NRD Instrument Co	9842 Manchester Rd St Louis 14 Mo	20
Nuclear Chicago Corp	225 W Erie St Chicago 10 Ill	20
Nuclear Corp of America	400 Park Ave New York 22 NY	20-25
Nuclear-Electronics Corp	2632 W Cumberland St Philadelphia 32 Pa	20-23
Nuclear Measurements Corp	2450 N Arlington Ave Indianapolis 18 Ind	20
Nucleonic Corp of America	196 Degraw St Brooklyn 31 NY	20
Offner Electronics Inc	5320 N Kedzie Ave Chicago 25 Ill	2-5-7-8-10-19
Pare Eng'g Co	6914 Beck Ave N Hollywood Calif	1
Pacific Technical Co	2047 Sawtelle Blvd Los Angeles 25 Calif	5-22
Packard Instrument Co	P O Box 428 La Grange Ill	20
Perless Eng'g Products Co	30-81 21st Long Island City 2 NY	1
Philco Corp	Tioga & C Sts Philadelphia 24 Pa	25-29
Philco Corp Govt & Industrial Div	4700 Wis-ahickon Ave Philadelphia 44 Pa	25-29
Phillips Mfg Co	3475 W Touhy Ave Chicago 45 Ill	23
Photovolt Corp	85 Madison Ave New York 16 NY	13-16
Photon Instrument Co	6516 Detroit Ave Cleveland 2 Ohio	2
Picker X-Ray Corp	25 S Broadway White Plains NY	13-20-24-25-26
Piezo Products Co	Whitney St Sherborn Mass	23
Press Wireless Labs Inc	25 Prospect Pl W Newton 65 Mass	25
Process & Instrumenta	15 Stone Ave Brooklyn 33 NY	8
Pye Canada Ltd	42 Northline Rd Toronto 15 Ontario Canada	5-7-23-29
Radiation Control Labs Inc	5121 W Grove St Skokie Ill	20
Radio Corp of America	Commercial Electronic Products Front & Cooper Sts Camden NJ	17

Radio Eng'g Co	8 State St New York 4 NY	10
Radium Chemical Co	161 E 42 St New York 17 NY	20
Railway Communications Inc	9351 E 58 St Raytown 33 Mo	5-18
Raytheon Mfg Co	100 River St Waltham 54 Mass	3-4-3-23
Raytheon Mfg Co Commercial Equip Div	100 River St Waltham 54 Mass	3-4-5-23
Resitron Labs Inc	2908 Nebraska Ave Santa Monica Calif	25
Ronar Inc	1316 Sherman Ave Evanston Ill	21
Saine Equipment Lab Harry T	Rt 2 Box 407 E Main Ave Morgan Hill Calif	1
St Eloi Corp	P O Box 507 Newtown Ur Cincinnati 44 Ohio	1
Sampson Chemical & Pigment Corp	2930 W Lake St Chicago 12 Ill	14
Sarnbro Co	175 Wyman St Waltham 54 Mass	2-5
Servo-Recording Instruments Inc	1815 W Van Buren St Phoenix Ariz	20
Simmonds-Aerosealeries Inc	105 White Plains Rd Tarrytown NY	2-5-16
Standard Electronics Research Corp	2 E End Ave New York 21 NY	22
Statham Labs Inc	12401 W Olympic Blvd Los Angeles 64 Calif	1-2-11
Stoelting Co C H	424 N Homan Ave Chicago 24 Ill	2-19-22
Taher Instrument Corp	111 Gundry St N Tonawanda NY	5
Teca Corp	80 Main St White Plains NY	8-22-23
Technicraft Labs Inc	Thomaston-Waterbury Rd Thomaston Conn	26
Technitrol Eng'g Co	1852 E Allegheny Ave Philadelphia 34 Pa	2
Telectronic Mfg Corp	28 Ranick Dr Amityville LI NY	7-28
Telectro Industries Corp	35-18 37 St Long Island City 1 NY	20
Telephonic Corp	Park Ave Huntington LI NY	28
Temperature Eng'g Corp	U S Hwy 130 Riverton NJ	15
Tracerlab Inc	1601 Trapelo Rd Waltham 54 Mass	20-24-25-26
Transitron Inc	186 Granite St Manchester NH	26
Trott Electronics Inc	412 Smith St Rochester 6 NY	10
Tullamore Electronics Lab	6055 S Ashland Ave Chicago 36 Ill	20
TV Specialty Co	350 W 31 St New York 1 NY	24-25-26
UAC Electronics Div	Universal Transistor Prods Corp 50 Bond St Westbury LI NY	20
Ultrasonic Eng'g Co	1613 S 3 Ave Maywood Ill	23
Ultra-Violet Products Inc	3114 Walnut Grove Ave San Gabriel Calif	13-14-29
Universal Transistor Products Corp	36 Sylvester St Westbury LI NY	20
Universal X-Ray Products Inc	1140 N Western Ave Chicago 22 Ill	26-26
U S Radium Corp	Morristown NJ	28-28
Victoreen Instrument Co	5806 Hough Ave Cleveland 3 Ohio	20
Victory Eng'g Co	121 Springfield Rd Union NJ	27
Vidicon Electronic Corp	902 E Michigan St Indianapolis Ind	3-11
Vulcan Electric Co	88 Holten St Danvers Mass	13
Wappler Inc	27-10 Astoria Blvd Long Island City 2 NY	3-6-11-12-32
Watlow Electric Mfg Co	1876 Ferguson Ave St Louis 14 Mo	15
Western Radiation Lab	1107 W 24 St Los Angeles 7 Calif	20
Westinghouse Electric Corp	P O Box 868 Pittsburgh 30 Pa	13-25
Wiegand Co Edwin J	7500 Thomas Blvd Pittsburgh 8 Pa	15
X-Ray Mfg Corp of America	1750 Plaza Ave New Hyde Park NY	25

47—MATERIALS, RAW

Carbides	1
Carbon	2
METALS	
Alnico	5
Aluminum	6
Antimony	7
Arsenic	8
Barium	9
Beryllium	10
Bismuth	55
Boron	11
Brass	12
Bronze	13

Bronze phosphor	14
Cadmium	15
Calcium	16
Cesium	17
Chromium	18
Cobalt	19
Columbium	20
Copper	21
Diamonds	3
Ferrites	22
Germanium	23
Gold	24
Graphite	4
Indium	56
Iron	25
Iron oxide	26
Lead	27
Lead & alloys	28
Lithium	29
Magnesium	57
Manganese alloys	30
Manganese	31
Mercury	32
Molybdenum	33
Monel	34
Nickel	35
Palladium	36
Polonium	37
Radium	38
Rhodium	39
Silicon	58
Silver	41
Silver alloys	42
Steel, metal coated	43
Steel, stainless	44
Strontium	45
Tantalum	46
Tellurium	47
Thorium	48
Tin & alloys	49
Titanium	50
Tungsten	51
Uranium	52
Zinc	53
Zirconium	54

Aerophysician Dev Corp Sub Curtis-Wright Corp	
P O Box 689	
Santa Barbara Calif	6-13-14-22-25-34-43-44
Allegheny Ludlum Steel Corp	
Oliver Bldg Pittsburgh 22 Pa	43-44-54
Alpha Metals Inc	
56 Water St	6-7-8-9-10-11-17-
Jersey City 4 NJ	29-24-28-42-49-53-56
Aluminum Co of America	
1501 Alcoa Bldg Pittsburgh 19 Pa	6
Amerax Corp	
Route 46 Kenvil NJ	28
American Brass Co	
414 Meadow St	
Waterbury Conn	6-12-13-14-21
American Metal Climax Inc	
61 Broadway	8-15-21-23-24-28-33-
New York 6 NY	36-39-41-42-47-49-53-56
American Platinum Works	
281 NJ RR Ave Newark 6 NJ	41-42
American Silver Co	
1607 Piney St	6-12-13-14-16-20-21-
Flushing 54 NY	24-25-27-31-33-36-41-
42-43-44-46-50-53-54	
American Smelting & Refining Co	
Federated Metals Div	
2230 Indianapolis Blvd	6-7-8-12-13-14-15-21-
Whiting Ind	23-24-28-41-47-49-54-55-56
Anscanda Co	
25 Broadway New York 4 NY	15-21-23-47-53
Anchor Metal Co	
966 Meeker Ave	6-7-8-15-21-23-24-28-34-35-
Brooklyn 22 NY	36-39-41-42-46-47-49-53-56
Antara Chemicals	
Div General Aniline & Film Corp	
435 Hudson St New York 14 NY	26
Arco Steel Corp	
703 Curtis St Middletown Ohio	25-43-44
Arnold Eng Co	
P O Box G Marengo Ill	5
Associated Eng & Mfg Corp	
210 Stonehouse Rd	
Glen Ridge 10-20-33-46-48-50-51-54	
Atomic Lath Inc	
3086 Claremont Ave Berkeley 5 Calif	2
Attleboro Refining Co	
36 Union St Attleboro Mass	24-41
Baker & Co 113 Astor St	
Newark 2 NJ	24-36-39-42
Baldwin Products Corp	
432 E Valley Blvd San Gabriel Calif	42
Barium & Chemicals Inc	
Willoughby Ohio	9-29-45
Belmont Smelting & Refining Works	
330 Belmont Ave	6-7-8-9-10-11-12-13-14-15-
Brooklyn 7 NY	16-18-19-20-21-23-28-29-30-
31-32-33-34-35-42-46-47-48-49-50-	
51-53-54-55-57-58	

Beryllium Corp	
P O Box 1462 Reading Pa	10-21
Bios Labs Inc	
1-2-4-5-6-7-8-9-10-11-12-13-	
17 W 60 St	14-16-6-17-18-19-20-21-22-23-24-
New York 23 NY	26-28-29-30-31-32-33-
34-35-36-37-38-39-41-42-43-44-45-46-	
47-48-49-50-51-52-53-54-55-56-57-58	
Bow Solder Products Co	
251 Freeman St	
Brooklyn 22 NY	7-15-28-49-55
Bradley Mining Co	
660 Market St San Francisco 4 Calif	7
Bram Metallurgical-Chemical Div	
820 65 Ave	1-2-5-7-8-9-10-11-12-13-14-15-
Philadelphia 26 Pa	16-17-18-19-20-21-23-24-
27-28-29-30-31-32-33-34-35-36-39-41-42-	
44-45-46-47-49-50-51-53-54-55-56-57-58	
Bridgeport Brass Co	
30 Grand St	6-12-13-14-21-33-35-
Bridgeport 2 Conn	44-47-49-50-52-53-54
Brooks & Perkins Inc	
1950 W Fort St Detroit 38 Mich	57
Bruh Beryllium Co Penroid Div	
501 Crescent Ave	
Reading Pa	10-12-13-14-44
Butecher Co I H	
3638 E Olympic Blvd	
Los Angeles Calif	15-21-35-36-39-41-53
Canadian Curtis-Wright Ltd	
1980 Sherbrooke St W	
Montreal Que Canada	44
Canadian Radium & Uranium Corp	
630 E Ave New York 20 NY	37-38-51
Cannon-Muskegon Corp	
Box 506 Muskegon Mich	5-34-43-44
Carborundum Co Globe Div	
Hyde Park Blvd Niagara Falls NY	27
Carborundum Metals Co Div Carborundum	
P O Box 32 Akron NY	54
Carborundum Co Lathrop Plant	
Refractories Div Lathrop Pa	27
Carpenter Steel Co	
Front & Horn Sts Reading Pa	41
Central Scientific Co of Canada Ltd	
146 Kendal Ave Toronto 4 Ont Canada	32
Cerro de Pasco Sales Corp	
300 Park Ave	
New York 22 NY	15-21-28-47-53-55-56
Channel Master Corp	
Ellenville NY	6
Chase Brass & Copper Co	
236 Grand St	
Waterbury 20 Conn	12-13-14-21-33-44-47
Chemical Commerce	
166 Clifford St Newark 5 NJ	56
City Chemical Corp	1-2-4-6-7-8-9-10-11-15-16-
132 W 22 St	17-18-19-20-21-23-24-26-28-29-
New York 11 NY	31-32-33-35-36-39-41-45-
46-47-48-49-50-51-52-53-54-55-56-57-58	
Columbian Carbon Co Mapico Color Unit	
380 Madison Ave New York 17 NY	26
Consolidated Mining & Smelting Co	
of Canada Ltd Metal Sls Div	
W Montreal Que Canada	15-28-41-53
Cooper & Son Joseph B	
25 W 47th St	
New York 36 NY	24-36-39-11-42
Crow Co H	
15 Heckman St	
New York 38 NY	33-46-50-51-54
Crucible Steel Co of America	
P O Box 2518	
Pittsburgh 30 Pa	5-22-30-44-50
Davin-K-Products Co	
135 W 29 St New York 1 NY	24-39-41
Davison Chemical Co	
Erwin Tenn	49
Deringer Metallurgical Corp	
8131 Monticello Ave Skokie Ill	24-36-41-42
Division Lead Co	
7742 W 61 Pl	
Summit Ill	7-8-15-16-28-32-42-47-49-53-55-57
Dixon Crucible Co Joseph	
167 Wayne St Jersey City 3 NJ	4
Drakenfeld & Co B F	
Box 519 W Wylie Ave Washington Pa	8
Driver Co Wilbur H	
1675 McCarter Hwy	
Newark 4 NJ	27-34-35-41-42-44-46-50
Driver-Harris Co	
Harrison NJ	27-30-34-35-44
Du Pont de Nemours & Co E I	
Wilmington 98 Del	50-58
Eastern Rolling Mills	
1122 E 180 St New York 60 NY	6-12-21
Eastern Smelting & Refining Corp	
109 W Brookline St	
Boston 18 Mass	24-32-36-39-41-42
Eisler Eng'g Co	
750 S 13 St Newark 3 NJ	27-33-34-51
Electrical Specialty Co	
158 11 St San Francisco 3 Calif	2
Electric Steel Foundry Co	
2141 NW 25 St Portland 10 Ore	44
Electro Metallurgical Co Div Union	
Carbide & Carbon 30 E 42 St	
New York 17 NY	18-31-50
Engelhard Ind Inc Amer Platinum & Silver	
Div 231 NJ RR Ave	
Newark NJ	24-36-39-41-42
Engelhard Industries Inc	
113 Astar St Newark NJ	24-36-39-41-42
Fansteel Metallurgical Corp	
2200 Sheridan Rd N Chicago Ill	20-33-46-51
Federated Metal Div	
American Smelting & Refining Co	
4010 E 26th St	6-7-8-12-13-14-15-21-28-30-
Los Angeles 23 Calif	41-42-47-49-53-55-56-57

Federated Metals Div	
American Smelting & Refining Co	
P O Box 959	6-7-8-12-13-14-15-21-23-28-36-
Newark 1 NJ	41-42-47-49-53-55-56-57
Ferriucube Corp of America	
35 E Bridge St Saugerties NY	22
Firth Sterling Inc	
3113 Forbes St Pittsburgh 13 Pa	1-44-50-54
Flamemaster Chemical Inc	
3813 Hoke Culver City Calif	33
Footo Mineral Co	
92 W Chelton Ave	25-29-31-45-50-54
Phila 44 Pa	
Gar Precision Parts Inc	
703 Pacific St Stamford Conn	35
General Chemical Div	
Allied Chemical & Dye Corp	
40 Rector St	
New York 6 NY	7-8-45-53-55-56
General Electric Co	
21800 Tungsten Rd Cleveland 17 Ohio	
1331 Chardon Rd Cleveland 17 Ohio	33-51
Handy & Harmon	
3625 Medford St Los Angeles 63 Calif	41-42
Handy & Harmon	
92 Fulton St New York 38 NY	24-36-41-42-56
Harmon Lichtenstein & Co	
26 Broadway	
New York 4 NY	7-15-23-28-53-55
Harshaw Chemical Co	
1945 E 97 St	7-8-9-11-15-16-17-18-19-21-25-
Cleveland 5 Ohio	26-28-29-31-35-49-53-54-57
Hi Grade Alloy Corp	
1236 S Talman Chicago 8 Ill	7-28-42
Hill Co C R	
35 W Grand River Ave Detroit 26 Mich	32
Hooper Chemical Corp	
P O Box 313	
Rutherford NJ	15-20-24-35-41-46-49-51-53-56
Indiana Steel & Wire Co	
700 S Council St Muncie Ind	44
Indium Corp of America	
1676 Lincoln Ave Utica 4 NY	56
Instruments Inc	
122 E Madison St Tulsa Okla	17-19-38
International Nickel Co	
67 Wall St New York 5 NY	34-35
International Powder Metallurgy Co	
439 W Main St Rideway Pa	12-13-14-25-35
Isotopes Specialties Co	
Box 688 Hurbank Calif	37-39
Johnson Bronze Co	
S Mill St Newcastle Pa	13-14
Johnson Mfg Co	
616 1st Ave Mt Vernon Iowa	28-49
Jones & Laughlin Steel Corp	
3 Gateway Center Pittsburgh 30 Pa	25-44
Kahl Scientific Instrument Corp	
P O Box 186 El Cajon Calif	32
Kaiser Aluminum & Chemical	
919 N Michigan Ave Chicago Ill	6
Kelley & Co O G	
98 Taylor St Boston 22 Mass	28
Kelsey-Hayes Co	1-5-6-7-8-11-12-13-17-
3600 Military Ave	18-19-20-21-23-25-27-
Detroit 32 Mich	30-36-44-55-56-57
Kennametal Inc	
1404 Ave Lathrop Pa	1-20-46-50-51
Kinney Co Joseph	
Sycamore St Carnegie Pa	43
Kulite Tungsten Co	
1010 Hoyt Ave Ridgefield NJ	19-31-35-51
La Pointe Industries Inc	
155 W Main St Rockville Conn	6
Leach & Garner Co Industrial Div	
Leach & Garner Bldg	12-13-14-21-24-
Attleboro Mass	35-36-41-42
Mackay Inc A D	1-2-4-5-6-7-8-9-10-11-12-13-
198 Broadway	14-15-16-17-18-19-20-21-23-
New York 38 NY	24-25-26-27-28-29-31-32-
33-34-35-36-37-38-39-41-42-44-45-46-47-48-	
49-50-51-52-53-54-55-56-57	
Mackay Research Labs	
RR 2 Box 401 McHenry Ill	25
Mallinckrodt Chemical Works	
2 & Mallinckrodt St St Louis 7 Mo	32-33
Mallory & Co Inc P R	
42 S Gray St	10-21-33-36-41-
Indianapolis 6 Ind	42-46-50-51
Merck & Co Inc Chemical Div	
Rahway NJ	38
Metal & Thermit Corp	
Rahway NJ	18-49
Mette Refining Co	
369 Mulberry St Newark 2 NJ	24-36-41-42
Mica Corp	
4031 Elmda St Culver City Calif	21
Modern Wire Co	
39 30 Review Ave	
Long Island City 1 NY	15-21-43
National Carbon Co	
Div Union Carbide & Carbon Corp	
30 E 42 St New York 17 NY	2-4
National Moldite Co	
250 South St Newark NJ	22-26-26
National-U S Radiator Corp	
342 Madison Ave	25-26-31-
New York NY	35-58
New Jersey Zinc Co	
160 Front St New York 38 NY	53
New Process Metals Inc	
45 Mts Pl Newark 5 NJ	49
Ney Co J M	
P O Box 990 Hartford 1 Conn	24-36-41-42
North American Philips Co Elmet Div	
Lishon Rd Lewiston Me	33-51
Nuclear Systems Div Budd Co	
2450 Hunting Park Ave	
Philadelphia 32 Pa	19

Numberall Stamp & Tool Co Huguenot Park Staten Island 12 NY	36
Ohio Carbon Co 12508 Berea Rd Cleveland 11 Ohio	2-4
Paul F H & Stein Bros 235 5 Ave New York 16 NY	6-20-46
Penn Precision Products Inc 501 Crescent Ave Reading Pa	10-12-14-21
Phelps Dodge Refining Corp 300 Park Ave New York 22 NY	21-47
Pittsburgh Plate Glass Co 1 Gateway Center Pittsburgh 22 Pa	54
Pump Inc 3369 W Grand Ave Chicago 61 Ill	15
Porter Co Inc H K Riverside-Alloy Metal Div Riverside NJ	10-12-13-14-21-34-35-44
Precision Supply Co 282 Helmont Ave Paterson 2 NJ	1-3
Q Glass Co 170 Broad St Bloomfield NJ	27
RCA Electron Tube Div 415 S 5 Harrison NJ	22
Ray Proof Corp 843 Canal St Stamford Conn	25
Raytheon Mfg Co Ceramic Sales Foundry Ave Waltham Mass	22
Raytheon Mfg Co Microwave & Power Tube Operations Foundry Ave Waltham Mass	22
Rembar Co 147 Main St Dobbs Ferry NY	20-33-46 50-51-54
Rem-Cru Titanium Inc Millard Pa	50
Republic Steel Corp Republic Bldg Cleveland 1 Ohio	25-43-44-50
Revere Copper & Brass Inc 230 Park Ave New York 17 NY	6-12-21
Keynolds Metals Co P O Box 2346-ZF Richmond 18 Va	6
Riverside-Alloy Metal Div Porter Co H K 1 Pavilion Ave Riverside NJ	10-12-14-34-35-44
Ryerson & Son Joseph T 16 & Rockwell Sts Chicago 8 Ill	6-43-44
S Eloy Corp P O Box 507 Newtown Hr	16-7-9-10-11-15-16-17-18-19-21-22-23-24
Cincinnati 44 Ohio	28-29-30-31-32-33-35-36-38-39-41-43-45-46-47-48-50-51-52-53-54-55-57
Seovill Mfg Co 99 Mill St Waterbury 20 Conn	6-12-13-14-21
Sel Rex Corp 25 River Rd Nutley 10 NJ	15-21-24-35-36-39-41-42
Seymour Mfg Co 200 Franklin St Seymour Conn	12-13-14-21
Shieldalloy Corp Newfield NJ	11-18-20-33-46
Somers Brass Co 91 Baldwin Ave Waukegan Conn	12-13-14-21-37-34-35-41-46
Starkpole Carbon Co St Marys Pa	2-4
Standard Metals Corp 262 Broad St N Attleboro Mass	24-36-41-43
Stewart Mfg Co D M Chattanooga Tenn	22
Stupakoff Div Carborundum Co Lathrup 12 Superior Graphite Co 33 S Clark St Chicago 3 Ill	21 4
Taylor Instruments Companies 95 Ames St Rochester 1 NY	32
Technic Inc 39 Snow St Providence 3 RI	24-30
Technicraft Labs Inc Thomaston-Waterbury Rd Thomaston Conn	22
Telegraph Construction & Maintenance Co Ltd Mercury House Theobalds PD London W C 1 England	10-35
Terris Div Consolidated Siphon Supply Co 22 Wooster St New York 13 NY	44
Tetrad Co 62 St Mary St Yonkers NY	1
Texas Instruments Inc 6000 Lemmon Ave Dallas 9 Texas	58
Thomas & Skinner Inc 1120 E 23 St Indianapolis 7 Ind	5
Titanium Alloy Mfg Div Natl Lead Co 111 Broadway New York 6 NY	1-54
Titan Metals Mfg Co Bellefonte Pa	12-13
Trans-Sil Corp 55 Honeck St Englewood NJ	58
Tricon Mfg Co 6008 Wallace St Chicago 20 Ill	24-36-41-42
Union Carbide Nuclear Co Div Union Carbide & Carbon 30 E 42 St New York 17 NY	16-33-51-52
United Carbon Products Co 1310 N Madison St Bay City Mich	2-4
United Mineral & Chemical Corp 16 Hudson St New York 13 NY	6-7-8-15-23-28-47-54-55-56-58
U S Graphite Co Div Wickes Corp 1621 Holland Ave Saginaw Mich	2-4
U S Radium Corp Morristown NJ	17-19-25-35-37-38-45
U S Steel Corp 625 William Penn Pl Pittsburgh 30 Pa	43-44
Utility Brass & Copper Corp 235 Conover St Brooklyn 31 NY	12-13-14-21
Vaculloy Corp W Kemrow Ave Wooster Ohio	50
Vacuum Metals Grp Div Crucible Steel Co P O Box 977 Syracuse 1 NY	35-44
Vitro Corp of America 261 Madison Ave New York 16 NY	31-48-50-52-54

Wallford Steel Co Valley St Wallford Conn	44
Warren Wire Co Pownall Vt	21
Werner Co R D 295 5 Ave New York 16 NY	6-44
Western Gold & Platinum Co 525 Harbor Blvd Belmont Calif	24-32-36-39-41-42-38
Westinghouse Electric Corp P O Box 868 Pittsburgh 30 Pa	5-27
Wildberg Bros Smelting & Refining Co 742 Market St San Francisco 2 Calif	24-32-36-39-41-42
Williams & Co C K 640 N 13 St Easton Pa	28
Wood Steel Co Alan Conshohocken Pa	23

American Ferft Crystal Corp 653 11 Ave New York 36 NY	72
American Platinum Works 231 RR Ave Newark 5 NJ	59
American Silver Co 3817 Prince St Flushing 64 NY	35-41-45-59-60-65
American Smelting & Refining Co Federated Metals Div 2230 Indianapolis Blvd Whiting Ind	61-62-67-61
Amplex Div Chrysler Corp P O Box 2718 Detroit 31 Mich	
Anchor Metal Co 968 Meeker Ave Brooklyn 22 NY	35-38-41-62-63-61-63
Anchor Plastics Co 36-38 36 St Long Island City 6 NY	79
Arena Controls Inc 2017 Greenleaf St Evanston Ill	49
Armed Steel Corp 703 Curtis St Middletown Ohio	81-82
Arnold Enx Co P O Box G Marano Ill	53
Arrowhead Products 2309 Curry St Long Beach 1 Calif	66-71-72-73-75-76-81-82
Associated Engr & Mfrs Corp 219 Stonehouse Rd Glen Ridge NJ	51
Atlantic Metal Sales Co 308 Lyckman St New York 31 NY	74
Atlas K-E Corp 47 Prospect St Woburn Mass	49
Aulorn Mfg Co Penn Ave & Stack St Middletown Conn	39-67-75
Automatic Methods Inc 905 Grand St Elizabeth NJ	39
Avon Tube Div Highline Mfg Co Kurrtel Rd Rochester Mich	81
Baincock & Wilcox Co Tunular Products Div Beaver Falls Pa	73-81-82
Bach & Co Simon 630 Greenleaf St New York 34 NY	72
Belmont Smelting & Refining Works 370 Belmont Ave Brooklyn 7 NY	55-57-61-62-63-64-65
Bentley Harris Mfg Co Conshohocken 30 Pa	71
Bethlehem Steel Co Bethlehem Pa	37
Bios Labs Inc 17 W 60 St New York 23 NY	55-57-60-61-62-63-64-65-67-76-89-82
Bronach Radio Co 145 Hudson St New York 13 NY	71-73-84-85
Blaco Mfg Co 8341 Euclid Ave Cleveland 3 Ohio	43
Borden Co Chemical Div Resinite Dept P O Box 1589 Santa Barbara Calif	79
Bow Solder Products Co 251 Freeman St Brooklyn 22 NY	61-69-84
Boyle Metalcraft Corp 150 Sullivan St Brooklyn 31 NY	59
Bram Metallurgical-Chemical Div 820 45th Ave Philadelphia 26 Pa	55-57-60-61-62-63-64-65-66-68-73-85
Brand & Co William 41 North St Williamamantic Conn	71-79-84
Bridgeport Brass Co 30 Grand St Bridgeport 2 Conn	57-59-66-68-70-73-76-82
Brooks & Perkins Inc 1909 W East St Detroit 38 Mich	57-59
Brush Beryllium Co Penrod Div 501 Crescent Ave Reading Penna	55-57-58
Carborundum Co Globar Div Hyde Park Blvd Niagara Falls NY	69
Carpenter Steel Co Alloy Tube Div Springfield Rd Union NJ	82
Carpenter Steel Co Front & Bern Sts Reading Pa	66-82
Cerro De Pasco Sales Corp 300 Park Ave New York 22 NY	62
Chace Co W M 1600 Beard Ave Detroit 9 Mich	60
Channel Master Corp Ellenville NY	86
Chase Brass & Copper Co 236 Grand St Waterbury 20 Conn	68-70-82
Chemalloy Electronics Corp Gillespie Airport Santee Calif	61
Chicago Gasket Co 1271 W North Ave Chicago 22 Ill	78
Chromalloy Corp of America P O Box 1229 Waterbury 20 Conn	55
City Chemical Corp 132 W 22 St New York 11 NY	53-57
Cleveland Container Co 6201 Harborton Ave Cleveland 2 Ohio	77-79
Colonial Alloys Co Ridge Ave & Crawford Sts Philadelphia 29 Pa	57
Columbia Products Co 6625 Shakespeare Rd Columbia SC	79
Comar Products Box 776 Butler NJ	79
Compro Corp 2251 W St Paul Ave Chicago 47 Ill	59
Consolidated Mining & Smelting Co of Canada Ltd Metal Sh Div W Montreal Que Canada	55-62
Continental-Diamond Fibre Corp Newark Dela	78-79
Controlled Atmosphere Enclosures Corp 230-11 141 Ave Springfield Gardens LI NY	79

47-A—MATERIALS, METAL

METAL STOCK

Foil	55
Porous bearing metal	56
Sheet	57
Spring contact	58
Stampings	59
Thermostatic metal	60

SOLDER

Aluminum	61
Indium	62
Lead-tin	63
Printed circuit	64
Silver	65

TUBING

Aluminum	66
Asbestos	67
Brass	68
Ceramic	69
Copper	70
Glass fibre insulation	71
Glass precision	72
Metal alloy	73
Metal hose, flexible	74
Monel	75
Nickel	76
Paper	77
Phenolic	78
Plastic	79
Silver	80
Steel	81
Steel, stainless	82
Tungsten	83
Varnished or lacquered	84
Woven or knitted wire	85

Accurate Electronics Corp 169 S Abbe Rd S E Elyria Ohio	59
Ace Plastic Co 91-30 Van Wyck Expwy Jamaica 35 NY	78-79
Acme Mfg & Gasket Co 738 N 41 St Philadelphia 4 Pa	59
Acoustica Associates 26 Windsor Ave Mineola NY	61
Aero Tool & Die Works 4554 Broadway Chicago 40 Ill	59
Aerophysical Dev Corp Sub Curtiss-Wright Corn P O Box 689 Santa Barbara Calif	71-79
Aircraft & Electronic Specialties 22 S Green St Brownburg Ind	86
Allegheny Ludlum Steel Corp Oliver Bldg Pittsburgh 22 Pa	57-59-73-81-82
Allied Fabricating Corp 1538 N Clybourn Ave Chicago 10 Ill	59
All-State Welding Alloys Co 249 Ferris Ave White Plains NY	61-65
Alpha Metals Inc 58 Water St Jersey City 4 NJ	55-57-59-61-62-63-64-65
Alpha Wire Corp 200 Varick St New York 14 NY	71-79-84
Aluminum Co of America 1501 Alcoa Bldg Pittsburgh 19 Pa	55-57-59-61-66-69
Amercoat Corp 4809 Firestone Blvd South Gate Calif	79
American Aluminum Co 230 Sheffield St Mountaineer Union NJ	59
American Brass Co 414 Meadow St Waterbury 28 Conn	55-57-58-59-66-68-70-78-74
Alprodo Inc 540 Weakley Ave Memphis Tenn	81
American Lava Corp Subs Minn Mining & Mfg Cherokee Blvd & Mfra Rd Chattanooga 5 Tenn	69
American Metal Climax Inc 61 Broadway New York 6 NY	63-64-65

Co-Operative Industries Inc 100 Oakdale Rd Chester NJ	74	General Scientific Equipment Co 7516 Limekiln Pike Phila 50 Pa	79	Luzerne Rubber Co Muirhead Ave Trenton NJ	79
Corning Glass Works Corning NY	72	Gibson Electric Co Box 553 Delmont Pa	58	Mackay Inc A D 198 Broadway New York 38 NY	55-57-61-62-63-64-65-76-90
Cosner Canada Ltd 301 Windsor St Halifax Nova Scotia Canada	79	Glazer Lead Co 41 Wyckoff Ave Brooklyn 37 NY	61-63	Majestic Extruders Inc 32-37 Downing St Flushing 52 NY	79
Cranz Packing Co 6400 Oakton St Morton Grove Ill	79	Glass Eng'g Labs Inc 601 Oneill St Belmont Calif	72	Mandex Mfg Co 2608 W 15 St Chicago 8 Ill	58
Cross Co H 15 Heckman St New York 38 NY	55-57	Goodrich Aviation Products Div H F Goodrich Co 500 S Main St Akron 18 Ohio	79	Marblette Corp 37-31 30 St Long Island City 1 NY	78
Crucible Steel Co of America P O Box 2518 Pittsburgh 30 Penna	57-73-75-81-82	Goodrich Industrial Products Co Marietta Ohio	79	Markel & Sons L Frank School Lane Norristown Pa	71-79-84
Crystals-Westlake Corp W Lenni Rd Lenni Mills Pa	73-79	Hallett Mfg Co 1601 W Florence Inglewood Calif	74	Maryland Lava Co Box 205 Belair Md	69
Demoray-Bonardi Corp 780 S Arroyo Pkwy Pasadena Calif	66-68-80	Hamilton Watch Co Allied Products Div Columbia Ave Lancaster Pa	55	Metal Specialty Products Corp 27-01 Brooklyn Queens Expressway W Woodside 77 NY	59
Demuth Glass Works Inc P O Box 629 Parkersburg W Va	72	Handy & Harmon 3625 Medford St Los Angeles 63 Calif	63-80	Metal Textile Corp 647 E First Ave Roselle NJ	65
Division Lead Co 7142 W 61 Pl Summit Ill	56-67-62-63-61-65-73	Harwood Electronics Co 466 W Superior St Chicago 10 Ill	59	Metcalf Inc K I 230 Toronto Ave Providence 5 RI	66-68-70-73-76-81-82
Blum Corp Burnside St Bristol RI	79	Havez Industries Inc 900 Greenbank Rd Wilmington 8 Dela	67-71-78-79	Metz Refining Co 369 Mulberry St Newark 2 NJ	80
Drey-Harris Co Harrison NJ	79	Haydel Electronic Products 1426 W Front St Plainfield NJ	58	Mica Corp 4031 Elenda St Culver City Calif	71
Du-Co Ceramic Co Box 278 Saxonburg Pa	69	Heldor Mfg Corp 238 Lewis St Paterson NJ	59	Mica Insulator Co 797 Broadway Schenectady 1 NY	78
Dunton Co M W 7 Goff St Providence RI	63	Henry & Miller Industries Inc 625 Garfield Ave Jersey City 5 NJ	59	Micarta Fabricators Inc 5324 N Ravenswood Ave Chicago 40 Ill	78-79
Duramic Products Inc 262 72 Mott St New York 12 NY	69	Hi Grade Alloy Corp 1238 S Talmac Chicago 8 Ill	61-62-63-64-65	Mid-West Conveyor Co Metal Products Div 7 & Sunshine Rd Kansas City 15 Kan	59
Eastern Smelting & Refining Corp 100 W Brookline St Boston 18 Mass	65-80	Honeycomb Co of America 3 Burroughs St Bridgeport 8 Conn	71-78	Mid-West Spring Mfg Co Mentone Ind	59
Eastern Tool & Mfg Co 1 Montgomery St Belleville 9 NJ	58	Hopper Chemical Corp P O Box 313 Rutherford NJ	62	Milwaukee Stamping Co 800 S 72 St Milwaukee 14 Wisc	59
Electrical Refractories Co E Clark St E Palestine Ohio	69	Houghton Laboratories Inc 322 Houghton Ave Olean NY	79	Minnesota Mining & Mfg Co 800 Bush Ave St Paul 6 Minn	69-78-79-84
Electrical Specialty Co 138 11 St San Francisco 3 Calif	55-61-63-64-66-71-77-78-79-84	Hudson Tool & Die Co 14 Mulvern St Newark 3 NJ	59	Mina Mining & Mfg Co Irvington Div 6 Argyle Terr Irvington NJ	71-79-84
Electric Steel Foundry Co 2111 N W 26 St Portland 10 Ore	81-82	Ic Mfg 325 N Hoyme Ave Chicago 12 Ill	81	Minor Rubber Co Ackerman St Bloomfield NJ	79
Electric-Wire Assemblies 704 W Virginia Milwaukee 4 Wisc	71-79	Illumitronic Eng'g Co 680 E Taylor Ave Sunnyvale Calif	78-79	Mitronics Inc 1290 Central Ave Hillside NJ	69-72
Elzev Metal Products Co 775 39 St Brooklyn 32 NY	69	Improved Seamless Wire Co 775 Eddy St Providence 5 RI	80	Modern Adhesives & Electronics Inc 131 Allen Blvd Farmingdale NY	55
Emerson & Cummins Inc 689 Washington St Canton 1 Mass	79	Indium Corp of America 1626 Lincoln Ave Utica 1 NY	55-57-59-62	Modern Wire Co 39 30 Review Ave Long Island City 1 NY	63-81
Emerson Plastics Corp Seabury Ave & Butler Pl Bronx 61 NY	71-78-79	Industrial Hardware Mfg Co 108 Prince St New York 12 NY	59	Moore Co Howard J 266 Williams St New York NY	71-77-78-79-84
Enkl Corp Fellowship Rd Route 73 Maple Shade NJ	79	Insulating Fabricators Inc 150 Union Ave E Rutherford NJ	71-77-78-79	Morganite Inc 35-02 48 Ave Long Island City 1 NY	69
Engelhard Ind Inc Amer Platinum & Silver Div 231 N J RR Ave Newark NJ	65-80	Insulation Mfrs Corp 565 W Washington Blvd Chicago 38 Ill	67-71-77-78-79-84	Multicore Sales Corp Div British Industries Corp 80 Shore Rd Port Washington NY	63
Engelhard Industries Inc 113 Astor St Newark NJ	60-65-69-73-90	Inuline Corp of America 146 Granite St Manchester NH	78-79	Multicore Solders Ltd Maylands Ave Hemel Hempstead Hertfordshire England	63-64-65
Enthoven Solders Ltd 113 S Water St Rochester 4 NY	61-62-63-64-65	International Nickel Co 67 Wall St New York 5 NY	73-75-76	National Gasket & Washer Mfg Co 124 E 25 St New York 16 NY	59-78-79
Erie Resistor Corp 644 W 12 St Erie 6 Pa	69	International Powder Metallurgy Co 433 W Main St Ridgway Pa	56	National-Standard Co Niles Michigan	85
Eutectic Welding Alloys 40-40 172 St Flushing 58 NY	61-63-65	Isolantite Mfg Corp Warren Ave Stirling NJ	69	National-Standard Co 555 Lincoln Ave Secaucus NJ	57
Extruders Inc 3232 W El Segundo Blvd Hawthorne Calif	79	Jessall Plastics Inc Div Electric Storage Battery Co 889 Farmington Ave Kensington Conn	79	National Tel-Tronics Corp 52 St Cassimir Ave Yonkers NY	69
Fansteel Metallurgical Corp 2200 Sheridan Rd N Chicago Ill	83	Jodee Plastics Co 213 Shepherd Ave Brooklyn 8 NY	78-79	National Vulcanized Fibre Co P O Box 311 Wilmington 99 Dela	71-79
Federal Tool & Mfg Co 3600 Alabama Ave Minneapolis 16 Minn	58	Johnson Mfg Co 22 E 40 St New York 16 NY	67	Natvar Corp 211 Randolph Ave Woodbridge NJ	79-84
Federated Metal Div American Smelting & Refining Co 1010 E 26th St Los Angeles 23 Calif	61-62-63	Johnson Foil Mfg Co 616 1st Ave Mt Vernon Iowa	61-62-63-64	Naz-Dar Co 465 Milwaukee Ave Chicago 10 Ill	64
Federated Metals Div American Smelting & Refining Co P O Box 959 Newark 1 NJ	61-62-63-64	Johnston Foil Mfg Co 6106 S Broadway St Louis 11 Mo	55-63	Newark Wire Cloth Co 351 Verona Ave Newark 4 NJ	83
Felt Products Mfg Co 7450 N McCormick Blvd Skokie Ill	69	Kaiser Aluminum & Chemical 919 N Michigan Ave Chicago 13 Pa	55-57-66	Newcomb Spring of Conn 510 Queen St Southington Conn	58-59
Fischer & Porter Co 174 Warminster Rd Hathoro Pa	72	Kearney & Mattison Co Butler Ave Ambler Pa	67	New England Tape Co 30 Tower St Hudson Mass	79
Fisher Co Inc Oscar P O Box 426 Newburgh NY	82	Kelsey-Hayes Co 3600 Military Ave Detroit 32 Mich	55-57-58-59-62	New Jersey Zinc Co 160 Front St New York 38 NY	67
Fisher & Crane 109 N Camac St Phila 7 Pa	78-79	Kent Lighting Corp 500 Johnson Ave Brooklyn 37 NY	59	New York Solder Co 634 E 133 St New York 54 NY	63
Fish-Shurman Corp 70 Portman Rd New Rochelle NY	72	Keater Solder Co 4201 Wrightwood Ave Chicago 39 Ill	63-64	Ney Co J M P O Box 990 Hartford 1 Conn	65-57-58-59-65
Flexostat Co 100 Park Ave New York 7 NY	74	Kirchberger & Co M 83-81 W Forest Ave Englewood NJ	69	Niemand Bros 37-05 35 Ave Long Island City 1 NY	77
Flexonics Corp 1315 S 3 Ave Maywood Ill	74-82	Kling Metal Spinning & Stamping Co 245 Centre St New York 13 NY	59	Norrlich Plastics Corp 107 W 18th St New York 16 NY	74-79
Fluorocarbon Products Inc Div U S Gasket Co 602 N 10 St Camden 1 NJ	79	Kullite Tungsten Co 1040 Hoyt Ave Ridgefield NJ	65-57-83	Northern Metal Products Corp 9699 W Grand Ave Franklin Park Ill	57-59-61-63-65
Forbes & Wagner Inc 343 Central Ave Silver Creek NY	59	Lamaco Inc 9230 W Grand Ave Franklin Park Ill	77	Norton Co 1 New Hond St Worcester 6 Mass	69
Formica Corp 4011 Spring Grove Ave Cincinnati 10 Ohio	64-74-78	La Morse C D 2433 Rinkdale St Los Angeles 31 Calif	71-79-81	Numberall Stamp & Tool Co Huguenot Park Staten Island 12 NY	59
Forsherb Mfg Co 125 Seaview Ave Bridgeport 1 Conn	69	Lamets Industries Inc 51 State St Westbury NY	67-71-79-84-85	Ny-Glass Inc 2501 E 64 St Long Beach Calif	71
Fredericks Co Gen E Bethayres Pl Frenchtown Porcelain Co Frenchtown NJ	69	La Pointe Industries Inc 165 W Main St Rockville Conn	59-64-65-66	Ohio Seamless Tube Div Copperweld Steel Co Shelby Ohio	81
Furani Plastics Inc 4818 Bristol St Los Angeles 38 Calif	79	Leach & Garner Co Industrial Div Leach & Garner Bldg Attleboro Mass	65-57-65-68-70-73-80	Olin Mathieson Chemical Corp 460 Park Ave New York 22 NY	66
Gard Mfg Co 588 Eddy St Providence 3 RI	68-59	Lee Chemical Corp Walter 1383 Seabury Ave & Butler Pl Bronx 61 NY	79	Parker Metal Goods Co 85 Prescott St Worcester 5 Mass	66-81-82
Garlock Packing Co 402 Main St Palmyra NY	67-79	Lenk Mfg Co 30 Cummington St Rowton 15 Mass	64	Paul F H & Stein Bros 235 E 5 Ave New York 16 NY	55-66
Gemex Corp 1280 Commerce Ave Union NJ	69	Lesterahire Spool Div National Vulcanized Fibre Co 140 Baldwin St Johnson City NY	78	Perless Products Industries 812 N Pulaski Rd Chicago 51 Ill	59
General Cement Mfg Co Div Tectron Inc 400 Wyman St Rockford Ill	59-64-79-84	Long Inc Thomas J 215 Stonehenge Lane Carle Place L I NY	78	Penco Metal Products Div Alan Wood Steel Co Oaks Penna	59
General Electric Co Cushuton Ohio	71-77-78-79				
General Findings & Supply Co Industrial Div Leach & Garner Bldg Attleboro Mass	58-59				

Peen Fibre & Specialty Co
2020 E Westmoreland St
Philadelphia 34 Pa 77-78

Penna Fluorocarbon Co Inc
1115 N 38 St Phila 4 Penna 79

Permacel-Le Pages Inc
U S Hwy 1 New Brunswick NJ 79

Philo Plastics Corp
530 Boston Twpk Worcester 8 Mass 79

Phila Scientific Glass Co
Box 46C Paltown Rd Quakertown Pa 72

Phonix Precision Instrument Co
3803 N 5th St Philadelphia 40 Pa 72

Pioneer Patents & Products Co
3720 N New England Ave Chicago 34 Ill 59

Pix Mfg Co
75 Hudson St Newark 3 NJ 59

Polymer Corp
2120 Fairmont Ave Reading Pa 79

Poray Inc
3369 W Grand Ave Chicago 51 Ill 59

Porcelain Products Inc
221 N Patterson St Carey Ohio 69

Precision Tube Co
Church Rd & Wissahickon Ave
North Wales Pa 66-68-70-73-75-76-81-82

Pres Industrial Equipment Ltd
Box 302 Putt Corners Rd
N New Paltz NY 79

Q-Line Mfg Corp
1582 61 St Brooklyn 19 NY 59-66

Rada Products Co
2911 Carroll Ave Chicago 12 Ill 69

Rascher & Hetsold Inc
730 N Franklin St Chicago 10 Ill 72

Raybestos-Manhattan Inc
61 Willett St Passaic NJ 67

Raybestos-Manhattan Inc Plastic
Products Div
Manheim Pa 87-79

Raytheon Mfg Co Ceramic Sales
Foundry Ave Waltham Mass 69

Raytheon Mfg Co Microwave & Power Tube
Operations Foundry Ave Waltham Mass 69

Rembar Co
147 Main St Dobbs Ferry NY 55-63

Rem-Cru Titanium Inc
Midland Pa 55-57-73

Republic Foil & Metal Mills Inc
55 Triangle St Danbury Conn 55

Republic Steel Corp
Republic Bldg Cleveland 1 Ohio 57-59-81-82

Resistoflex Corp
Woodland Rd Roseland NJ 79

Revere Copper & Brass Inc
230 Park Ave
New York 17 NY 55-57-59-66-68-70-73-81

Reynolds Metals Co
P O Box 2346-ZF
Richmond 18 Va 55-57-59-66

Richardson Co
27 Ave & Lake St Melrose Park Ill 78-79

Rigidized Metals Corp
658 Ohio St Buffalo NY 57

Rome Cable Corp
Ridge St Rome NY 81

Ruby Chemical Co
69-70 McDowell St Columbus 16 Ohio 63

Ryerson & Son Joseph T
16 & Rockwell Sts
Chicago 8 Ill 57-66-73-79-81-82

St Eloi Corp
P O Box 597 Newtown Br
Cincinnati 14 Ohio 65

Saxenburg Ceramics
Saxenburg Pa 69

Schutte & Koerting Co
Cornwells Heights Bucks Co Pa 72

Sheffco Mfg Corp
323 Bergen Blvd Fairview NJ 59

Schuyler Mfg Corp
84 Fort Ave N Arlington NJ 85

Schwietzer Inc Peter J
Low Mass 77

Scientific Glass Apparatus Co
100 Lakewood Terrace Bloomfield NJ 72

Seymour Mfg Co
299 Franklin St Seymour Conn 57

Shamban & Co W S
11817 W Jefferson Blvd
Culver City Calif 79

Silicone Insulation Inc
Seahury Ave & Butler Pl Bronx 61 NY 71

Somers Brass Co
94 Baldwin Ave Waterbury Conn 55-64

Southern Plastics Co
408 Pendleton SC 79

South River Metal Products Co
377 Turnpike South River NJ 66

Spaulling Fibre Co Inc
1325 San Julian St
Los Angeles 15 Calif 71-79

Spaulling Fibre Co
510 Wheeler St Tonawanda NY 71-78

Specialties Inc
261 Madison Ave New York 16 NY 78

Standard Metals Corp
262 Broad St N Attleboro Mass 57-65-73-80

Stanley Industrial Sales Stanley Works
Lake St New Britain Conn 59

Star Porcelain Co
21 Muirhead Ave Trenton 9 NJ 69

Staver Co
41-51 N Saxon Ave Bay Shore LI NY 59

Steward Mfg Co D M
Chattanooga Tenn 69

Stone City Machine & Tool Co
1206 T St Bedford Ind 59

Stone Paper Tube Co Div Stone Straw Corp
900 Franklin St
N E Washington 17 DC 67-78-84

Stupakoff Div Carborundum Co
Latrobe Pa 69

Suckle Electronics Co
22 & Hayes Ave Camden 5 NJ 59

Superior Steatite & Ceramic Corp
83 91 W Forest St Englewood NJ 69

Superior Tube Co
Box 191 Norristown Pa 73-75-76-81-82

Surprenant Mfg Co
112 Sterling St Clinton Mass 79

Swedlow Plastics Co
6985 Bandini Blvd
Los Angeles 22 Calif 71

Synthane Corp
Montgomery Ave Oaks Pa 71-78-79

Taffet Radio & TV Co
27-05 Brooklyn-Queens Expressway W
Woodside 77 NY 69

Taylor Fibre Co
Box 471 Norristown Pa 71-78

Techniques Inc
52 Jackson Ave Hackensack NJ 59

Telectro Industries Corp
35-18 37 St Long Island City 1 NY 56

Telegraph Construction & Maintenance Co Ltd
Mercury House Theobalds Rd
London W C 1 England 60

Telegraph Construction & Maintenance Co Ltd
Mercury House Theobalds Rd
London W C 1 England 59-79

Terris Div Consolidated Siphon
Supply Co 22 Wooster St
New York 13 NY 82

Thermal Refractories Corp
4501 Dell Ave N Bergen NJ 69

Thomas & Skinner Inc
1120 E 23 St Indianapolis 7 Ind 59

Thomas & Sons William
Shoem Ave Ridgefield NJ 59

Thor Ceramics Inc
225 Belleville Ave Bloomfield NJ 69

Timken Roller Bearing Co
1855 Deuber Ave S W Canton 4 Ohio 81-82

Titanium Alloy Mfg Div Natl Lead Co
111 Broadway New York 6 NY 59

Titeflex Inc
Hendee St Springfield 4 Mass 74-79-82-85

Topper Mfg Co Inc
147-12 Liberty Ave Jamaica 35 NY 78-79

Transformer Metal Prods Corp
35 York St Brooklyn 1 NY 59

Tricon Mfg Co
8008 Wallace St Chicago 20 Ill 58-63-65-80

Tri-Ex Tower Corp
127 E Inyo St Tulare Calif 81

TV Hardware Mfg Co Div Testron Inc
400 S Wyman St Rockford Ill 31

Unear Electric Tools Inc
4101 Redwood Ave
Los Angeles 65 Calif 66-68-70-73-75-76-80-81-82

Uniform Tubes Inc
Level Rd
Collegeville 2 Pa 66-68-70-73-75-76-80-81-82

United Mineral & Chemical Corp
18 Hudson St
New York 13 NY 55-57-59-62-69-76

United Shoe Machinery Corp
140 Federal St Boston 7 Mass 59

United Wire & Supply Corp
1497 Elmwood Ave Providence 7 RI 66-68-70

U S Graphite Co Div Wickes Corp
1321 Holland Ave Sarinaw Mich 56

U S Steel Corp
525 William Penn Pl Pittsburgh 30 Pa 81-82

Utility Brass & Copper Corp
255 Conover St Brooklyn 31 NY 68-70

Vacuum Metals Grp Div Crucible Steel Co
P O Box 977 Syracuse 1 NY 87

Vardex Corp
511 W Court St Rome NY 79

Wallinford Steel Co
Valley St Wallinford Conn 55-82

Walco Electronics Mfg Co
100 W Green St Rockford Ill 64-71-79

Werner Co R D
295 5 Ave New York 16 NY 66-82

Werner Co Inc R D
Greenville Pa 66

Western Gold & Platinum Co
525 Harbor Blvd
Belmont Calif 55-57-62-65-69

Westlake Plastics Co
137 W Lenni Rd Lenni Mills Pa 78-79

Wildberg Bros Smelting & Refining Co
712 Market St
San Francisco 2 Calif 55-57-65

Wilmington Fibre Specialty Co
New Castle Dela 78

Winder Aircraft Corp of Fla
P O Box 2397 Drane Fl Lakeland Fla 87

Winzeler Mfg & Tool Co
7555 W Wilson Ave Chicago 31 Ill 59

Wisconsin Porcelain Co
121 Lincoln St Sun Prairie Wis 69

Wolverine Tube Div Calumet & Hecla Inc
17200 Southfield Rd
Allen Park Mich 66-68-70-73

Wood Steel Co Alan
Coshohocken Pa 57

York Co Inc Ohio H
6 Central Ave W Orange NJ 85

Zenith Plastics Co
1600 W 135 St Gardena Calif 79

Zippertubing Co
752 S San Pedro St
Los Angeles 11 Calif 74-79

48—METERS, AUDIO

Meters, audio 1
Meters, decibel 2
Meters, distortion 3
Meters, frequency 4
Meters, intermodulation 5
Meters, modulation 6
Meters, noise 7
Meters, output 8
Meters, phase angle 9
Meters, recording 10
Meters, sound level 11
Meters, wow & flutter 12

Ad-Yu Electronics Lab Inc
249 Terhune Ave Passaic NJ 9

Aerovox Corp
740 Belleville Ave New Bedford Mass 2

Airmec Ltd
High Wycombe
Buckinghamshire England 4-6-9

Airpax Products Co Seminole Div
City of Plantation Ft Lauderdale Fla 4-12

Airtone Inc
1108 W Elizabeth Ave Linden NJ 4

Alectra
Div Consolidated Electrodynamics Corp
325 N Altadena Dr Pasadena Calif 2

Allison Labs Inc
14185 Skyline Dr La Puente Calif 2

Alto Scientific Co
855 Commercial St Palo Alto Calif 1

American Machine & Foundry Co
Defense Products Group
1101 N Royal St Alexandria Va 9

Amerac Inc
Dunham Rd Beverly Mass 4

Amphenol Corp of America
395 Broadway New York 13 NY 12

Anderson Electronic Lab
129 E 1800 S St Bountiful Utah 1-11

Anton Electronic Labs
1226 Flushing Ave
Brooklyn 37 NY 1-2-6-8-11

Audio Instrument Co
133 W 14 St New York 11 NY 6

Audiovox Inc
123 Worcester St Boston 18 Mass 1

Automatic Timing & Controls Inc
King of Prussia Pa 10

Bach-Simpson Ltd
1251 Brydges St
London Ont Canada 1-2-4-11

Barker & Williamson Inc
Canal & Beaver Sts Bristol Pa 1-3-4-5-7

Beckman/Berkeley Div
Beckman Instruments Inc
2200 Wright Ave Richmond 2 Calif 4-10

Beede Electrical Instrument Co
Pennacook NH 1-2-6-11

Bergen Labs
247 Crooks Ave Clifton NJ 9

Biddle Co James G
1316 Arch St Philadelphia 7 Pa 4

Browning Labs Inc
750 Main St Winchester Mass 6

Budelman Radio Corp
375 Fairfield Ave Stamford Conn 4

Burton-Rogers Co
42 Carleton St Cambridge 42 Mass 2-11

Buss-Clement-Doughten & Associates
201 R Studio Hill Chester Springs Pa 7-11

Cheapsie Instrument Corp
Shady Side Md 2-7-11

Cinema-Television Ltd
Worsley Bridge Rd Lower Sydenham
London SE 26 England 4

Clough-Bregline Co
6014 Broadway Chicago 40 Ill 2

Computer-Measurements Corp
5528 Vineland Ave N Hollywood Calif 4

Conn Ltd C G
555 E Jackson Blvd Elkhart Ind 4

Conn Organ Corp
555 E Jackson Blvd Elkhart Ind 4

Control Electronics Co Inc
1925 New York Ave Huntington Sta NY 9

Cooper Electronics Inc
5637 Tulip St Philadelphia 24 Pa 8

Daven Co
Route 10 Livingston NJ 1-2-3-4-7-8

Davenport Mfg Co
1713 N Ashland Ave Chicago 22 Ill 1-2

DeJur-Amsco Corp Electronic Sales Div
45-01 Northern Blvd
Long Island City 1 NY 11

Deltion Inc
2905 N Leistikow St Philadelphia 33 Pa 9

Donner Scientific Co
8488 Galindo St Concord Calif 4-12

D & R Ltd
402 E Gutierrez St Santa Barbara Calif 12

Dunlap Electronics
764 9 St Des Moines 14 Iowa 1-2-4-11

Dynamic Development Co
59 New York Ave Westbury NY 9

Eastern Specialty Co
3617 N 8 St Phila 40 Pa 9

Electronics Int'l Co Inc
20 N Lee St Oklahoma City 2 Okla 4

Electro-Voice Inc
Ceell & Carroll Sts Buchanan Mich 11

Elk Electronics Labs Inc
333 W 52 St New York 19 NY 3-4-6

Empire Devices Products Corp	38-15 Bell Blvd Bayside 61 NY	3-7-8-10
Empire Product Sales Corp	37 Prospect St Amsterdam NY	3-5-6
Engineering Associates	434 Patterson Rd Dayton 9 Ohio	4-6-7
Erwood Inc	1770 W Berteau Ave Chicago 13 Ill	11
Fairchild Recording Equipment Co	10-40 45 Ave Long Island City 1 NY	12
Fried Transformer Co	1718-36 Weirfield St Brooklyn 27 NY	3
General Electric Co	Apparatus Sls Div	
	1 River Rd Schenectady 5 NY	4-10
General Radio Co	275 Massachusetts Ave	
	Cambridge 39 Mass	2-3-4-5-6-7-8-11
Heath Co	305 Territorial Rd	
	Benton Harbor Mich	1-3-5-6-8-11
Heylett-Packard Co	275 Page Mill Rd Palo Alto Calif	3-4-7
Hickok Electrical Instrument Co	10514 Dupont Ave	
	Cleveland 8 Ohio	1-2-3-4-6-7-8-9-11
Holt Instrument Labs	Div Holt Telephone & Telegraph Corp	
	42 Carleton St Cambridge 42 Mass	2-11
Hupp Instru/mation Div Erie-Pacific	12932 S Weber Way Hawthorne Calif	4
Ind Test Equip Co	55 E 11th St New York 3 NY	9
International Telephone & Telegraph Corp	Industrial Products Div	
	250 Garabaldi Ave Lodi NJ	4-6
Jackson Electronics Inc	23 Woodcrest Rd West Chester Pa	2-4-7-9
Kay Electric Co	14 Maple Ave	
	Pine Brook NJ	1-7-10-11-12
Langwin Mfg Corp	47-57 Austell Pl Long Island City 1 NY	9
Magnetic Amplifiers Inc	632 Tinton Ave New York 55 NY	9
Marion Electrical Instrument Co	Greiner Field Manchester NH	2
Meters Inc	5353 N Keystone Ave Indianapolis 20 Ind	2
Metronix Inc	Mill Lane Waterford Conn	4
Miller Instrument Inc	165 E Lincoln Ave	
	Geondisho Calif	1-2-3-5-6-7-8-9-10-11
Mine Safety Appliances Co	201 N Bradshock Ave Pittsburgh 8 Pa	5-7-11
Minn-Honeywell Regulator Co Davides Labs Div	10721 Hanna St Belleville Md	12
Muirhead Instruments Inc	617 5 Ave New York 22 NY	4-7-9
Nichols & Clark Inc	321 Newburyport Turnpike Danvers Mass	1
Northeast Electronics Corp	Airport Rd Concord NH	2-3-11
Northeastern Eng'g Inc	25 S Bedford St Manchester NH	4
Omarion Inc	185 Ashford Ave Dubbs Ferry NY	1
Pace Electrical Instruments Co	70-31 84 St Glendale 27 LI NY	2-8
Phosatron Instrument & Electronic Co	151 Pasadena Ave S Pasadena Calif	1-2-11
Precision Apparatus Co	70-31 84 St Glendale 27 LI NY	2-8-11
Qualitone Co	4318 Upton Ave S Minneapolis 10 Minn	1
Radio Corp of America	Commercial Electronic Products	
	Front & Cooper Sts Camden NJ	4-6
Rem Meter Inc	1109 Hilton Hl Ferndale 20 Mich	4
Roller-Smith Corp	1825 W Market St Bethlehem Pa	1-2
Sarantoga Industries	Congress & Ballston Aves	
	Saratoga Springs NY	4
Scott Inc R H	285 Putnam Ave Cambridge 39 Mass	7
Sensitive Research Instrument Corp	310 Main St New Rochelle NY	1-4
Simpson Electric Co	5200 W Kinzie St Chicago 44 Ill	2-11
Solartron Electronic Group Ltd	Queens Rd Thames Ditton	
	Surrey England	2-8
S O S Cinema Supply Corp	602 W 52 St New York 19 NY	12
Southwestern Industrial Electronics Co	2831 Post Oak Rd Houston 19 Texas	6
Statistical Instr Co	430 Haven Ave New York 33 NY	7
Stoddard Aircraft Radio Co	6644 Santa Monica Blvd	
	Hollywood 38 Calif	7
Taffet Radio & TV Co	27-05 Brooklyn-Queens Expressway W	
	Woodside 77 NY	1-2-4
Telectro Industries Corp	45-18 37 St Long Island City 1 NY	9-10-12
Triplet Electrical Instrument Co	Harmon Rd Bluffton Ohio	2-4-11
U S Recording Co	1347 S Capitol St Washington 5 DC	1
Vaco Mfg Co	2200 Walnut St Garland Texas	1-4-5-6-9
Voron & Co George	835 N 19 St Philadelphia 30 Pa	1-2
Wacine Inc	35 S St Clair St Dayton 2 Ohio	1-2-4-7-8-11

Waters Mfg Inc	Boston Post Rd Wayland Mass	2
Waugh Eng'g Co	7842 Burnet Ave Van Nuys Calif	4
Waveforms Inc	333 8 Ave New York 14 NY	1
Wayne-Kerr Inst	P O Box 801 Phila 5 Pa	7
Welch Scientific Co W M	1515 Sedwick St Chicago 10 Ill	2
Western Electro Acoustic Lab Inc	1739 San Vicente Blvd	
	Los Angeles 49 Calif	1-3-7-11
Westinghouse Electric Corp	P O Box 868 Pittsburgh 30 Pa	2-4-9-10
Winslow Co	701 Lehigh Ave Union NJ	4-9

Associated Research Inc	3777 W Belmont Ave	
	Chicago 18 Ill	10-12-13-17-21-24
Audio Instrument Co	133 W 14 St New York 11 NY	30
Automatic Timing & Controls Inc	King of Prussia Pa	25
Auto Test Inc	600 S Michigan Ave	
	Chicago 5 Ill	1-4-16-17-18-21-27-30
Auto Test Inc	411 W 8th St Neillville Wisc	1-7-30
Avtron Mfg Inc	10409 Meech Ave Cleveland 5 Ohio	7
Bach-Simpson Ltd	1255 Hrydges St	
	London Ont Canada	19-20-21-22-23-26-29-30
Baldwin-Lima-Hamilton Corp	Electronics & Instrumentation Div	
	42 Fourth Ave Waltham 54 Mass	28
Bainntine Labs Inc	Boonton NJ	2-29
Barber-Colman Co	1300 Rock St Rockford Ill	17
Barber & Williamson Inc	Canal & Beaver Sts Bristol Pa	9
Barnes Instrument Co	Kraft St	
	Clarksville Tenn	1-2-13-16-17-18-21-23-29-30
Barnstead Still & Demineralizer Co	331 Lanesville Terr Boston 31 Mass	3
Barry Electronics Corp	512 Broadway New York NY	1-13
Bassett Inc Res	1314 N E 17 Ct Ft Lauderdale Fla	7
Beckman, Berkeley Div	Beckman Instruments Inc	
	2200 Wright Ave Richmond 3 Calif	7-24
Beckman Helipot Corp	Newport Beach Calif	1-33-34
Beckman Instruments Inc Data & Control Systems Scientific Instrument Div	325 N Muller Ave Anaheim Calif	33
Beede Electrical Instrument Co	1-4-8-10-13-16-17-18-19-21-23-30	
Belleville-Hesem Corp	638 University Ave	
	Los Gatos Calif	12-13-16-17-21-29-30
Bergan Labs	247 Crooks Ave	
	Clifton NJ	18-21-24-29-30-31-32
Beta Electric Div Sorenson Co	333 E 103 St New York 29 NY	10-13
Biddle Co James G	1316 Arch St Philadelphia 7 Pa	7-12-21
Boonton Electronics Corp	738 Speedwell Ave	
	Morris Plains NJ	15-17-29-30
Boonton Radio Corp	Intervale Rd Boonton NJ	26
Boonin Instrument Corp	10 1 St Pelham NY	28
Bristol Co	P O Box 1790 EI	
	Waterbury Conn	15-16-17-21-23-30-31
Bruno-New York Industries Corp	460 W 34 St New York 1 NY	21-30
Hudelman Radio Corp	373 Fairfield Ave Stamford Conn	7
Burr-Grown Research Corp	Box 4444 Tucson Ariz	17-29-30
Burton-Rogers Co	42 Carleton St	
	Cambridge 42 Mass	1-4-13-16-17-25-30
Calif Magnetic Control Corp	11922 Valerio St N	
	Hollywood Calif	30
Cambridge Instrument Co	Grand Central Terminal	
	New York 17 NY	6-34
Central Scientific Co of Calif	1040 Martin Ave	
	Santa Clara Calif	1-8-13-16-17-21-31
Chemulloy Electronics Corp	Gillespie Airport Santee Calif	31
Chesapeake Instrument Corp	Shadyside Md	20
Chicago Industrial Instrument Co	845 N Sangamon St	
	Chicago 22 Ill	1-2-4-19-12-13-16-17-18-21-22-23-29-30
Cinema-Television Ltd	Worsley Bridge Rd Lower Sydenham	
	London SE 26 England	7-27
Columbia Electric Mfg Co	4518 Hamilton Ave	
	Cleveland 14 Ohio	1-27-30
Computer-Measurements Corp	3528 Vineland Ave N Hollywood Calif	7
Consolidated Avionics Corp	800 Shames Dr Westbury NY	1
Consolidated Electrodynamic Corp	200 N Sierra Madre Villa	
	Pasadena Calif	17-29-30
Control Electronics Co Inc	1925 New York Ave Huntington Sta NY	24
Cornell-Dublier Electric Corp	333 Hamilton Blvd S Plainfield NJ	29
Crown Engineering	3821 Commercial N E Albuquerque NM	7-30
Cubic Co	5575 Kearny Villa Rd	
	San Diego 11 Calif	21-30-33
Curtiss-Wright Corp Electronics Div	531 Central Ave	
	Carlstadt NJ	1-4-5-8-12-13-15-16-17-21-30
Custom Scientific Instruments Inc	541 Devon St Woodside 77 NY	28-34
Daven Co	Route 10 Livingston NJ	7-20-21-25-29

49—METERS, ELECTRICAL MEASUREMENT

Meters, ammeter	1
Meters, capacitance	2
Meters, conductance	3
Meters, d'arsonval	4
Meters, electrometer	5
Meters, flux	6
Meters, frequency	7
Meters, galvanometer	8
Meters, impedance	9
Meters, kilovolt	10
Meters, kilowatt	11
Meters, megohm	12
Meters, microampere	13
Meters, microfarad	14
Meters, microvolt	15
Meters, milliamper	16
Meters, millivolt	17
Meters, multimeter	18
Meters, multiplier	19
Meters, noise	20
Meters, ohm	21
Meters, output	22
Meters, panel	23
Meters, phase	24
Meters, power factor	25
Meters, ϕ	26
Meters, snap around	27
Meters, tension	28
Meters, vacuum tube volt	29
Meters, volt	30
Meters, watt	31
Meters, watt-hour	32
Voltmeters, digital	33
Voltmeters, electrostatic	34
Voltmeters, slideback	35

Aeromag Inc	22519 Telegraph Rd Detroit 41 Mich	7
Aetion Laboratories	533 Main St Acton Mass	9-15-24-29-34
Ad-Yu Electronics Lab Inc	249 Torhams Ave Passaic NJ	24
Aero Electronics Co	1512 N Wells St Chicago 10 Ill	5
Aero Instrument Co	11423 Vanowen St N Hollywood Calif	7
Aerophysics Dev Corp Sub Curtis-Wright Corp	P O Box 689 Santa Barbara Calif	29-33
Airmec Ltd	High Wycombe	
	Buckinghamshire England	17-21-24-29
Airpax Products Co Semihole Div	City of Plantation Ft Lauderdale Fla	7
Airpax Products Co	Middle Rive Baltimore 20 Md	7
Alco Electronics Mfg Co	3 Wolcott Ave	
	Laurence Mass	1-4-13-16-23-29-30
Alcetra	Div Consolidated Electrodynamics Corp	
	325 N Altadena Dr Pasadena Calif	17
Allegheny Instrument Co	1091 White Mountain Cumberland Md	17-21
Alto Scientific Corp	855 Commercial St Palo Alto Calif	9-17-30
Amerac Inc	Dunham Rd Beverly Mass	7
American Machine & Foundry Co	Defense Products Group	
	1101 N Royal St Alexandria Va	22-25
American Metric Corp	40 Haddon Ave	
	Camden 3 NJ	1-12-13-15-16-17-18-21-22-23-25-29-30-33
Anchor Products Co	2712 W Montrose Ave Chicago 18 Ill	29
Anton Electronic Labs	1226 Flushing Ave	
	Brooklyn 37 NY	1-4-8-10-13-15-16-17-20-22-23-30
Applied Physics Corp	362 W Colorado St Pasadena 1 Calif	5
Assembly Products Inc	75 Wilson Mills Rd	
	Chesterland Ohio	1-4-8-10-13-16-17-23-30

Davenport Mfg Co 1713 N Ashland Ave Chicago 22 Ill	1-10-12-13-16-20-33	Helipot Corp Newport Beach Calif	1-7-23-30	Mohawk Business Machines Corp 944 Halsey St Brooklyn 33 NY	18
Dejar-Amsco Corp Electronic Sales Div 45-01 Northern Blvd Long Island City 1 NY	1-4-10-13-16-17-18-20-22-23-30	Hewlett-Packard Co 275 Page Mill Rd Palo Alto Calif	7-20-29-31-33	Muirhead Instruments Inc 677 5 Ave New York 22 NY	7-9-20-24
Deltron Inc 2905 N Leithook St Philadelphia 33 Pa	24	Hewson Co 413 Broad St Newark 2 NJ	13-16	Narda Microwave Corp 118-160 Herricks Rd Mineola NY	7-9
Diamond Antenna & Microwave Corp 7 North Ave Wakefield Mass	7	Hickok Electrical Instrument Co 1-2-3-4-5-8-10-10314 Dupont Ave Cleveland 8 Ohio	20-21-22-23-24-25-29-30-31	National Aircraft Corp Electronics Div 341 Tulare Ave Burbank Calif	33
Dice Co J W 16 Highwood Ave Englewood NJ	21	Howell Instrument Co 3101 Trinity St Ft Worth 7 Texas	8	National Instrument Labs Inc 828 Evars St NE Washington DC	1-4-13-16-17-23-30
Dittmore-Fremuth Corp 2517 E Norwich St Milwaukee 2 Wis	1-10-11-13-14-15-16-17-18-19-30-33	Huey Instrument Co 59 Carleton St Cambridge 42 Mass	1-4-13-16-17-23-30	Non-Linear Systems Inc Del Mar Airport Del Mar Calif	17-21-29-33
Donner Scientific Co 888 Galindo St Concord Calif	1	Hughes Products Hughes Aircraft Co 5341 W 101 St 1st Airport Sta Los Angeles 45 Calif	29	North Atlantic Industries Inc 605 Main St Westbury NY	24-29
Du Mont Labs A R 750 Bloomfield Ave Clifton NJ	7	Ideal Precision Meter Co 125 Greenpoint Ave Brooklyn 22 NY	1-4-13-16-17-23-30	Opad Electric Co 69 Murray St New York 7 NY	10
Dyna Inc 385 Page Mill Rd Palo Alto Calif	7-30	I-L-S Instrument Corp 4525 W 150 St Cleveland 11 Ohio	7	Optimized Devices Inc Box 38 Gedney Sta White Plains NY	21
Dyna-Empire Inc 1075 Stewart Ave Garden City LI NY	6	Industrial Control Co 605 Albin Ave Linderhurst LI NY	13-15-16-17-30	Owen Labs Inc 55 Beacon Pl Pasadena Calif	30
Eastern Specialty Co 3617 N 8 St Phila 40 Pa	24	Industrial Instruments Inc 68 Commerce Rd Cedar Grove NJ	21	Pace Electrical Instruments Co 50-31 84 St Glendale 27 LI NY	1-4-6-10-13-16-17-22-30
Eby Co H H 6700 Germantown Ave Philadelphia 41 Pa	18-29	Industrial TV Inc 359 Lexington Ave Clifton NJ	15	Paco Electronics Co Inc 70-31 84th St Glendale 27 LI NY	18-29
Electric Design & Mfg Co 722 Jefferson St Hurlington Iowa	1-4-10-12-18-17-23-30	Instrument Electronics Corp 90 Main St Port Washington NY	29	Pameco Mill Lane Waterford Conn	23-29
Electro Impulse Lab Inc 208 River St Red Bank NJ	7-31	Instrumenta Inc 122 N Madison St Tulsa Okla	7	Parke Electronics Co 130 Cutter Mill Rd Great Neck NY	1-4-16-17-23-30
Electro Instrument Inc Aero Ct San Diego Calif	12-17-30-33	International Instruments Inc Box 2954 New Haven 15 Conn	1-4-13-16-17-23-30	Penn-East Eng'g Corp Box 240 Kutztown Penna	24
Electro-Mechanical Instrument Co & Chestnut St Perkasie Pa	1-16-17-30	International Telephone & Telegraph Corp Industrial Products Div 250 Garibaldi Ave Lodi NJ	2-6-7-8-12	Peuschel Electronics Inc 13 Garden St New Rochelle NY	10
Electronic Associates Inc Long Branch NJ	33	Ind Test Equip Co 55 E 11th St New York 3 NY	9-24-25-31	Phaenotron Instrument & Electronic Co 151 Pasadena Ave Pasadena Calif	1-4-10-13-16-17-18-22-23-30
Electronic Designs Inc 28 School St Yonkers NY	29	Jackson Electronic Inc 23 Woodcrest Rd West Chester Pa	1-9-29	Philco Corp Accessory Div "A" & Allegheny Ave Philadelphia 34 Pa	23-29
Electronic Instrument Co 84 Withers St Brooklyn 11 NY	18-29	Jarrrell-Ash Co 26 Farwell St Newtonville 60 Mass	8	Physics Research Labs Inc P O Box 555 Hempstead NY	1-8-12-13-16-17-18-21-23-24-25-30-31
Electronic Measurements Corp 625 Broadway New York 12 NY	16-18-29-30	Johnson Aircraft Engr'g Co Geophysical Services Div P O Box 10 Morristown NJ	8	Potter Aeronautical Corp Route 22 Union NJ	7
Electronic Research Associates 67 Factory Pl Cedar Grove NJ	20	Juelyn-Hudson Inc 11982 Wilshire Blvd Los Angeles 25 Calif	21	Precise Measurements Corp RD 1 Millbrook Rd Flemington NJ	10-12-34
Electronics Intl Co Inc 20 N Lee St Oklahoma City 2 Okla	7	Kahn & Co 541 Windsor St Hartford 1 Conn	17	Precision Apparatus Co 70-31 84 St Glendale 27 LI NY	10-12-18-21-29
Electrojet Inc 489 S Ave New York NY	1-8-17-21-30-31	Kay Electric Co 14 Maple Ave Pine Brook NJ	7-26-29	Precision Meter Co 135 Greenpoint Ave Brooklyn 22 NY	1-4-8-13-16-17-23-30
Eifa Instrument Center 55 Reade St New York 7 NY	1	Keithley Instruments Inc 12415 Euclid Ave Cleveland 6 Ohio	5-10-12-13-15-17-23-29-34	Production Research Corp Thornwood NY	7
Eik Electronics Labs Inc 333 W 52 St New York 19 NY	26-29	King Electric Equipment Co 9123 Inman Ave Cleveland 5 Ohio	1-4	Pye Canada Ltd 82 Northline Rd Toronto 16 Ontario Canada	1-2-3-5-6-7-8-9-10-13-14-15-16-17-26-30-34
Empire Devices Products Corp 35-16 Hell Blvd Hayside 61 NY	20	Kings Electronics Co Inc 40 Marbledale Rd Tuckahoe NY	25	Pye Telecommunications Ltd Newmarket Rd Cambridge England	18-29
Engelhard Inc Charles 550 Passaic Ave E Newark NJ	1-30	Kintel 5725 Kearny Villa Rd San Diego 12 Calif	1-8-13-15-16-17-30-33	Pyramid Instrument Corp 630 Merrick Rd Lynbrook LI NY	1-4-21-23-27-30
Engineering Associates 434 Patterson Rd Dayton 9 Ohio	26	Lampkin Labs Inc R F D 1 Bradenton Fla	7	Q-V-S Inc 20 N 15 St E Orange NJ	1-4-8-13-16-17-21-22-23
E O Electronics Inc 14 Morris Ave Mountain Lakes NJ	29	Landis & Gyr 45 W 45 St New York 36 NY	10-11-32	Radio City Products Co Centre & Glendale Sta Easton Pa	2-9-12-13-21-22-29
Epoca Inc 588 Commonwealth Ave Boston 15 Mass	33	Larson Instrument Co 24 Orchard St Tarrytown NY	4	Radio Corp of America Commercial Electronic Products Front & Cooper Sta Camden NJ	18-19-21-24-29-30-31
Ereca Corp 551 Fifth Ave New York 17 NY	8	Leeds & Northrup Co 4970 Stenton Ave Philadelphia 44 Pa	4-8-12-13	Radio Corp of America Electron Tube Div Harrison NJ	1-10-12-13-16-15-29-30
Eric Resistor Corp 644 W 12 St Erie 6 Pa	7	Leitch Eng'g Corp 326 Lincoln St Manchester NH	29	Radio Kite Inc 120 Cedar St New York 6 NY	29-31
Esterline-Angus Co P O Box 596 Indianapolis 6 Ind	1-4-7-10-11-16-17-25-30-31	MacLeod & Hanopol 10 Roland St Charlestown 29 Mass	2-47	Ram Meter Inc 1100 Hilton Rd Ferdale 20 Mich	1-6-7-21-23-27-30-32
Feller Eng'g & Mfg Co 8026 N Monticello Ave Skokie Ill	16-21-29-30	Magnafix Corp 7500 W Lawrence Ave Chicago 31 Ill	6	Rawson Electrical Instrument Co 116 Potter St Cambridge 42 Mass	1-4-6-10-16-17-23-30-31-34
Ferranti Electric Inc 30 Rockefeller Plaza New York 20 NY	10-25-27-32-34	Magnetic Amplifiers Inc 632 Tinton Ave New York 55 NY	24	Republic Aviation Corp Farmingdale LI NY	1-4-8-13-16-30
Fisher Research Lab 1961 University Ave Palo Alto Calif	17	Majestic Int'l Corp 79 Washington St Brooklyn 1 NY	29-30	Rheem Mfg Co Electronics Div 7777 Industry Ave Downey Calif	18-29
Flow Corp 85 Mystic St Arlington Mass	20-30	Marion Electrical Instrument Co Grenier Field Manchester NH	1-4-8-10-13-16-17-23-30	Roller Smith Corp 1825 W Market St Bethlehem Penna	1-4-7-8-10-11-18-15-16-17-18-20-21-23-24-25-30-31
Hoke Mfg Co John 1111 W Nickerson St Seattle 99 Wash	10-11-17-29-30-31-35	Martindale Electric Co Box 617 Edgewater Branch Cleveland 7 Ohio	1-12-21-26-27-31	RS Electronics Corp P O Box 368 Sta A Palo Alto Calif	20
Franklin Electronics Inc E 4th St Bridgeport Pa	18-30	Maxson Instrumenta Div W L Maxson Corp 47-37 Austell Pl Long Island City 1 NY	24	Sennog Electric Co 1207 N 11th St Springfield Ill	1-23-25-30-31-32
Freeed Transformer Co 1718-38 Weirfield St Brooklyn 27 NY	12-24-29	Meters Inc 5253 N Keystone Ave Indianapolis 20 Ind	1-4-8-10-12-13-16-17-21-23-30	Saratoga Industries Congress & Ballston Aves Saratoga Springs NY	7-18-29
Furzehill Labs Ltd 57 Clarendon Rd Watford England	29	Metronix Inc 75 Wilson Mills Rd Chesterland Ohio	2-29	Sees Mfg Co 5015 Penn Ave S Minneapolis 19 Minn	29
Gary Wells Co 361 Rockaway Ave Valley Stream NY	7	Mid-Century Instrument Corp 611 Broadway New York 12 NY	30	Senium 262 E 16 St Paterson 4 NJ	1-8-30
Gates Radio Co 123 Hampshire St Quincy Ill	18-19	Miljan Inc Div Paul Omohundro Co P O Box 389 1506 Vermont Ave Paramount Calif	30	Sensitive Research Instrument Corp 310 Main St New Rochelle NY	1-3-4-6-7-8-10-11-13-15-16-17-19-23-30-31-34
General Electric Co Apparatus Sls Div 1 River Rd	1-4-6-7-10-11-13-15-16-17-23-24-25-30-31	Miller Mfg Co James 150 Exchange St Malden 48 Mass	7	Servo-Recording Instruments Inc 1815 W Van Buren St Phoenix Ariz	5-34
General Radio Co 275 Massachusetts Ave Cambridge 39 Mass	5-7-12-20-22-29	Miller Instrument Inc 165 E Lincoln Ave Escondido Calif	1-4-5-8-9-13-15-16-17-20-21-22-23-30	Serv-Tek Products Co 1086 Goffe Rd Hawthorne NJ	18-21
Geotechnical Corp 3712 Haggard Dr Dallas 9 Texas	8	Miller M C Box 221 E Saddle River Rd Allendale NJ	1-16-17-18-30	Shalleross Mfg Co Jackson & Poney Aves Collingdale Pa	8-21
G-M Laboratories Inc 4300 N Knox Ave Chicago 41 Ill	8	Mine Safety Appliances Co 201 N Braddock Ave Pittsburgh 8 Pa	20	Shurite Meters 61 Hamilton St New Haven Conn	1-16-21-23-30
Golkak Co 1544 W Glenoaks Blvd Glendale 1 Calif	17	Minn-Honeywell Regulator Co Instruments Div Wayne & Windrim Aves Philadelphia 1 Pa	5-7-8-17	Siemens Electronic Corp 3885 Bohannon Dr Menlo Park Calif	29-31
Gray Instruments Co 200 E Church Lane Philadelphia 44 Pa	17	Minn-Honeywell Regulator Co Rubicon Instrumenta Ridge Ave at 35 Sta Philadelphia 32 Pa	6-7-8	Simpson Electric Co 5200 W Kinzie St Chicago 44 Ill	20-21-22-23-30-31-35
Gulton Industries Inc 212 Durham Ave Metuchen NJ	1-8-10-12-13-16-17-18-21-30				
Hagan Chemicals & Controls Inc 343 4 Ave Pittsburgh 30 Pa	17-30				
Hallikainen Instruments 1341 7 St Berkeley 10 Calif	5				
Health Co 305 Territorial Rd Benton Harbor Mich	18-29-31				

Solartron Electronic Group Ltd
Queens Rd
Thames Ditton Surrey England 18-29-33
Southwestern Industrial Electronics Co
2841 Post Oak Rd
Houston 19 Texas 16-17-18-21-29-30-33
Specialty Eng'g & Electronics Co
34 Clifton Pl Brooklyn 38 NY 18
Sterling Mfg Co
7201 Wentworth Ave
Cleveland Ohio 1-13-16-23-30
Sticht Co Herman H
27 Park Pl New York 7 NY 7-12-21-34
Stuhart Aircraft Radio Co
6644 Santa Monica Blvd
Hollywood 38 Calif 30-29
Sun Electric Corp 1-2-3-4-5-7-8-10-11-12-13-14-15-16-17-18-19-20-21-22-23-24-25-30-31-32
Harlem & Avondale Ave 14-15-16-17-18-20-21-22-23-24-25-30-31-32
Chicago 31 Ill
Syston Corp
2055 Concord Blvd Concord Calif 7-33
Taylor Instruments Companies
95 Ames St Rochester 1 NY 1-16-17
Tektronix Inc
P O Box 831 Portland 7 Ore 2
Telectro Industries Corp
33-18 37 St Long Island City 1 NY 2-26
Telematic Industries Inc
15 Howard Ave Brooklyn 7 NY 30
Teletronics Inc
54 Kinkel St Westbury NY 7-16-17-18-21-29
Tensitron Inc
Pin Hill Harvard Mass 28
Thermo Electric Co
109 5 St Saddle Brook NJ 11
Thermo Electric Mfg Co
5112 Huff Ave Dubuque Iowa 17
Theib Instrument Corp
48 Pine St E Paterson NJ 24
Thuronic Inc
68 Olive St Chargin Falls Ohio 1-4-13-16-17
Trans Electronics Inc
7319 Canoga Ave Canoga Park Calif 6
Translon Inc
166 Granite St Manchester NH 12
Trio Labs Inc
4025 Merrick Rd Seaford NY 8-24-29
Triplet Electrical Instrument Co
Harmon Rd 1-4-10-11-12-13-15-16-17-18-19
Buffton Ohio 20-21-22-25-27-29-30-31
Tri-Tronics Co
2697 St Charles Rd Bellwood Ill 29
Trump Dr Walter N
516 S Vermont Columbus Kan 3-12
Tullamore Electronics Lab
8055 S Ashland Ave Chicago 36 Ill 5-13
Union Switch & Signal Div
1738 1807 Braddock Ave
Swissvale P O Pittsburgh 8 Penna 18
United Mineral & Chemical Corp
16 Hudson St
New York 13 NY 2-12-14-15-17-25-26
Valandy Electronics Corp
31-35 166 St Flushing 68 NY 21
Van Norman Industries Inc Electronics Div
186 Granite St Manchester NH 1-4-13-16
Varo Mfg Co
2201 Walnut St Garland Texas 7-24
Voron & Co George
835 N 19 St Philadelphia 30 Pa 1-2-12-18-21
Wacline Inc
33 8 St Clair St 1-4-5-7-9-10-13-15-17-17-18-19-20-21-22-23-30-31
Dayton 2 Ohio
Wang Labs Inc
27 Hurley St Cambridge 41 Mass 7
Waters Mfg Inc
Boston Post Rd
Wayland Mass 1-4-13-16-17-18-21
Waxform Inc
383 6 Ave New York 14 NY 29
Wayne-Kerr Inst
P O Box 801 Phila 5 Pa 3-20-26
Welch Scientific Co W M
1515 Sedgewick St 1-4-5-10-13-16-17-19-20-21-22-23-25-30-31
Westing Mfg Co
144 S Cosma St Napa Calif 7
Western Electro Acoustic Lab Inc
11759 San Vicente Blvd
Los Angeles 49 Calif 20-23
Westinghouse Electric Corp
P O Box 868
Pittsburgh 30 Pa 23-24-25-30-31
West Instrument Corp
4363 W Montrose Ave
Chicago 41 Ill 13-16-17
Weston Electrical Instrument Corp
614 Frelinghuysen Ave 1-4-6-7-8-17-18-21-22-23-25-29-30-31
Newark 12 NJ
Weymouth Instrument Co
1440 Commercial St E Weymouth 89 Mass 7
Winslow Co
701 Lehigh Ave Union NJ 7-6-12-21

50—METERS—RF

Meters, ammeters, RF 1
Meters, attenuation 2
Meters, decibel 3
Meters, distortion 4
Meters, field strength 5
Meters, FM deviation 6
Meters, frequency 7
Meters, grid dip 8
Meters, microwave 9

Meters, noise 10
Meters, output 11
Meters, phase 12
Meters, R-F power 13
Meters, standing wave ratio 14
Meters, wave 15

Ad-Yu Electronics Lab Inc
249 Terhune Ave Passaic NJ 12
Acro Instrument Co
11423 Vanowen St N Hollywood Calif 7
Aircrom Inc
354 Main St Winthrop Mass 7-9-13-14-15
Aircrom Inc
139 E 1st St Roselle NJ 7-8
Aimtron Ltd
High Wycombe Buckinghamshire England 6
Also Electronics Mfg Co
3 Wolcott Ave Laurence Mass 5
Alto Scientific Co
855 Commercial St Palo Alto Calif 8-14
Amerac Inc
Dunham Rd Beverly Mass 7
American Machine & Foundry Co
Defense Products Group
1101 N Royal St Alexandria Va 6-7
American Metrix Corp
40 Haddon Ave Camden 3 NJ 1
American Microwave Corp
11751 Vose St N Hollywood Calif 9-15
Amtron Corp
17 Felton St Waltham 54 Mass 13
Antenna & Radome Research Assoc
1 Bond St Westbury NY 15
Asambly Products Inc
75 Wilson Mills Rd Chesterland Ohio 1
Avtron Mfg Inc
10409 Meerb Ave Cleveland 5 Ohio 7
Bach-Simpson Ltd
1255 Brydges St
London Ont Canada 1-3-5-7-8
Ballantine Labs Inc
Boonton NJ 11
Barker & Williamson Inc
Canal & Beaver Sts
Bristol Pa 3-4-8-10-11-13-14
Barry Electronics Corp
512 Broadway New York NY 1
Bassett Inc Rex
1311 N E 11 Ct Ft Lauderdale Fla 7
Beckman/Berkeley Div
Beckman Instruments Inc
2200 Wright Ave Richmond 3 Calif 7-12
Beckman Helipot Corp
Newport Beach Calif 7
Beede Electrical Instrument Co
Pensacok NH 1-2-3-10
Bellairz Electronics Inc
62 White St Red Bank NJ 5
Berson Labs
247 Crooks Ave Clifton NJ 12
Biddle Co James G
1316 Arch St Philadelphia 7 Pa 7
B J Electronics Borg-Warner Corp
3300 Newport Ave Santa Ana Calif 11
Blunder-Tongue Laboratories
9-25 Alling St Newark 2 NJ 5
Bolton Labs Inc
W Main St Bolton Mass 5-7-8-9-10-13-14-15
Boonton Electronics Corp
738 Speedwell Ave Morris Plains NJ 5-8-9
Resonant Radio Corp
Interval Rd Boonton NJ 7
Browning Labs Inc
750 Main St Winchester Mass 6-11
Bruno-New York Industries Corp
460 W 81 St New York 1 NY 13
Brunswick Instruments
P O Box 313 New Brunswick NJ 12-13
Burliman Radio Corp
375 Fairfield Ave Stamford Conn 6
Calif Technical Industries Div Tectron Inc
1421 Old County Rd Belmont 10 Calif 9-11
Chemalloy Electronics Corp
Gillespie Airport Santee Calif 9-11
Chicago Industrial Instrument Co
885 N Sangamon St Chicago 22 Ill 1
Cinema-Television Ltd
Worsley Bridge Rd Lower Sdenham
London SE 26 England 7
Consolidated Electrodynamics Corp
300 N Sierra Madre Villa Pasadena Calif 2
Control Electronics Co Inc
1925 New York Ave Huntington Sta NY 15
Cubic Corp
5575 Kearny Villa Rd San Diego 11 Calif 13
Daven Co
Route 10 Livingston NJ 2-3-1
Dejur-Amsco Corp Electronic Sales Div
35-01 Northern Blvd
Long Island City 1 NY 3
Demornay-Ronardi Corp
780 S Arroyo Pkwy Pasadena Calif 7-9-14-15
Diamond Antenna & Microwave Corp
7 North Ave Wakefield Mass 15
Douglas Microwave Co
252 E 8 St Mt Vernon NY 7-9-15
Fby Co H H
4700 Germantown Ave Philadelphia 14 Pa 7
Elen Mfg Co
137 Herrick Rd New Hyde Park LI NY 9
Electro Impulse Lab Inc
204 River St Red Bank NJ 7-9-13-14
Electrovert Inc
489 5 Ave New York NY 9
Elk Electronics Labs Inc
333 W 52 St New York 19 NY 5-7-10-11-18

Empire Devices Products Corp
38-15 Bell Blvd Bayside 61 NY 4-9-10
Empire Product Sales Corp
37 Prospect St Amsterdam NY 3-4-5-10
Englehard Industries Inc
113 Avlar St Newark NJ 1
Engineering Associates
434 Patterson Rd Dayton 9 Ohio 7-9-10
Feiler Eng'g & Mfg Co
4026 N Monticello Ave Skokie Ill 11
Ferris Instrument Corp
110 Cornelia St Boonton 1 NJ 5-10
Frequency Standards
P O Box 504 Ashbury Park NJ 7-9-15
F-R Machine Works Inc
Electronic & X-Ray Div
26-12 Borough Pl
Woodside 77 NY 7-9-13-14-15
General Communication Co
677 Beacon St Boston 15 Mass 15
General Electric Co Apparatus Sls Div
1 River Rd Schenectady 5 NY 1-7-9-12
General Radio Co
275 Massachusetts Ave
Cambridge 39 Mass 4-6-7
General RF Fittings Inc
702 Beacon St Boston 15 Mass 7
Health Co
305 Territorial Rd Benton Harbor Mich 5-8
Hewlett-Packard Co
275 Page Mill Rd
Palo Alto Calif 2-7-10-13-14-15
Hickok Electrical Instrument Co
10514 Dupont Ave
Cleveland 8 Ohio 1-3-4-5-7-9-10-11-12-13
Hoffman Electronics Corp
3761 S Hill St Los Angeles 7 Calif 7
Industrial TV Inc
369 Lexington Ave Clifton NJ 5
International Instruments Inc
Box 2854 New Haven 15 Conn 1
International Telephone & Telegraph Corp
Industrial Products Div
250 Garibaldi Ave Londl NJ 6-12
Jackson Electronics Inc
23 Woodcrest Rd
West Chester Pa 1-3-7-9-10-11-12-14
Jerrold Electronics Corp
23 Chestnut Sts Philadelphia 3 Pa 5
Johnson Co E F
206 2 Ave S W Waseca Minn 14
Jones Electronics Co M C
185 N Main St Bristol Conn 11-13-14
J-V-M Eng'g Co
1633 S Lawndale Ave Lyons Ill 9-13-15
Kahn & Co
541 Windsor St Hartford 1 Conn 6
Kay Electric Co
14 Maple Ave Pine Brook NJ 6
Kearfott Co Inc
1444 Oxnard St Van Nuys Calif 7-13
Kings Electronics Co Inc
40 Marbledale Rd Tuckahoe NY 13-15
Lampkin Labs Inc
R F D 1 Bradenton Fla 6-7
Lavoie Labs Inc
Matawan-Freehold Rd Morzantville NJ 7
Majestic Int'l Corp
79 Washington St Brooklyn 1 NY 8
Maxon Instruments Div W L Maxon Corp
47-37 Austell Pl Long Island City 1 NY 12
Mico Instrument Co
80 Trowbridge St Cambridge 38 Mass 15
Microwave Associates Inc
Burlington Mass 9-13-15
Millon Mfg Co James
150 Exchange St Malden 48 Mass 8-14-15
Miller Instrument Inc
165 E Lincoln Ave
Escondido Calif 12-13-14-15
Mine Safety Appliances Co
201 N Braddock Ave Pittsburgh 8 Pa 3-10
Nario Microwave Corp
118-160 Herricks Rd Mineola NY 7-9
National Instrument Labs Inc
828 Everts St NE Washington DC 1
Nema-Clarke Inc
919 Jessup-Blair Dr Silver Spring Md 5
Northeast Electronics Corp
Airport Rd Concord NH 3-9-10-11-13-11
Northwestern Eng'g Inc
25 S Belford St Manchester NH 7
Northern Radio Co
143 W 22 St New York 11 NY 7
Pace Electrical Instruments Co
70-31 84 St Glendale 27 LI NY 3-11
Polarad Electronics Corp
43-20 34 St Long Island City 1 NY 3-7-9-13
Polytechnic Research & Development Co
202 Tillary St Brooklyn 1 NY 2-9-14-15
Potter Aeronautical Corp
Route 22 Union NJ 7
Press Wireless Labs Inc
25 Prospect Pl W Newton 65 Mass 8
Pye Telecommunications Ltd
Newmarket Rd Cambridge England 1-5-8-13
Radar Design Corp
2360 James St N Syracuse 12 NY 7-9-14-15
Radiation Inc
P O Box 37 Melbourne Fla 7
Radio City Products Co
Centre & Glendale Sts Easton Pa 7
Radio Kits Inc
120 Cedar St New York 6 NY 8
Rich Electronics Inc
212 NW 8 Ave Miami 36 Fla 5
Sage Labs Inc
159 Linden St Wellesley 81 Mass 9
Sensitive Research Instrument Corp
310 Main St New Rochelle NY 1-7

Sierra Electronic Corp
3885 Bohannon Dr Menlo Park Calif 13

Simpson Electric Co
5200 W Kinzie St Chicago 44 Ill 1-3-5

Solartron Electronic Group Ltd
Queens Rd Thames Ditton Surrey England 3

Sperry Gyroscope Co
Microwave Electronics Div
Great Neck NY 2-7-9-13-14-15

Sun Electric Corp
Harlem & Avondale Ave
Chicago 31 Ill 1-3-5-7-11

Systron Corp
2055 Concord Blvd Concord Calif 7

Technical Material Corp
700 Fenimore Rd Mamaroneck NY 14

Telectro Industries Corp
30-18 37 St Long Island City 1 NY 4

Telerad Mfg Corp
Route 69 Flemington NJ 5-7-9-13-15

Telerad Mfg Corp
1440 Broadway New York 18 NY 7-9-14-15

Temple Electrical Instrument Co
Barnon Rd Bluffton Ohio 1-3-7-10-11

Univac Inc
109 Marine St Farmingdale NY 9-13

Vaco Mfg Co
2201 Walnut St Garland Texas 7-12

Victor RF & Microwave Co
36 W Water St Wakefield Mass 9

Wadline Inc
35 S St Clair St
Dayton 2 Ohio 1-3-7-9-11-13-14-15

Waveline Inc
P O Box 716 Caldwell NJ 9-11

Wayne-Kerr Inst
P O Box 801 Phila 5 Pa 9-10-13-15

Westinghouse Electric Corp
P O Box 268 Pittsburgh 30 Pa 1-3

Weymouth Instrument Co
1410 Commercial St
E Weymouth 29 Mass 9-15

Winston Electronics Inc
4312 Main St Philadelphia 27 Pa 5

Aerophysics Dev Corp
Sub Curtiss-Wright Corp
P O Box 689
Santa Barbara Calif 3-4-17-19-20-21

AIRResearch Mfg Co Div Garret Corp
9851 Sepulveda Blvd
Los Angeles 46 Calif 3

Airmec Ltd
High Wycombe
Huckinghamshire England 26-29

Airjax Products Co Seminole Div
City of Plantation Ft Lauderdale Fla 26

Allegany Instrument Co
1081 Wills Mountain Cumberland Md 24

American Machine & Foundry Co
Defense Products Group
1101 N Royal St Alexandria Va 3

American Metric Corp
40 Haddon Ave Camden 3 NJ 6-15-26

American Optical Co Instrument Div
Box A Buffalo 15 NY 1

Amplifier Corp of America
3777 W Belmont Ave Chicago 18 Ill 6-34-36

Amthor Testing Instrument Co
45-55 Van Sinderen Ave Brooklyn 7 NY 26

Analytic Systems Co
Div Research Instrument Corp
880 N Fair Oaks Ave Pasadena Calif 1-19-30

Anton Electronic Labs
1228 Flushing Ave Brooklyn 37 NY 25-30

Arclin Products Inc
13541 Auburn Ave Detroit 23 Mich 7-12

Assembly Products Inc
75 Wilson Mills Rd Chesterland Ohio 27

Associated Research Inc
3777 W Belmont Ave Chicago 18 Ill 6-34-36

Audio Accessories
379 Broadway Amityville NY 6

Automatic Timing & Controls Inc
King of Prussia Pa 29

Auto Test Inc
690 S Michigan Ave Chicago 5 Ill 4-26

Auto Test Inc
1235 Brydges St
London Ont Canada 11-26-27-34-35-36

Bailey Meter Co
1050 Ivanhoe Rd
Cleveland 10 Ohio 22-24-27-28

Baldwin-Lima-Hamilton Corp
Electronics & Instrumentation Div
42 Fourth Ave Waltham 54 Mass 6-8

Bullantine Labs Inc
Benton NJ 24

Barber-Colman Co
1300 Rock St Rockford Ill 22-27-28

Burkley & Dexter Laboratories
50 Frankfort St Fitchburg Mass 30

Burns Development Co
213 W Baltimore Ave Landowne Pa 9

Barnett Instrument Co
Kraft St Clarksville Tenn 34

Beckman Instruments Inc Data & Control
Systems Scientific Instrument Div
325 N Muller Ave Anaheim Calif 11-13

Beebe Electrical Instrument Co
Penacook NH 27

Bendis Aviation Corp
1104 Fisher Bldg Detroit 2 Mich 3-10

Bendis Aviation Corp Cincinnati Div
3130 Wauson Rd Cincinnati 8 Ohio 16

Beggs Labs
247 Craaks Ave Clifton NJ 6-11

Beta Electric Div Sorensen Co
333 E 103 St New York 29 NY 6-12

Biddle Co James G
1316 Arch St Philadelphia 7 Pa 26-31

Buglin Instrument Corp
10 I St Pelham NY 26

Bristol Co
P O Box 1790 El
Waterbury Conn 7-9-11-13-16-26

Brunswick Instruments
P O Box 813 New Brunswick NJ 24

Burton-Hogers Co
42 Carleton St Cambridge 42 Mass 34

Calif Technical Industries Div Textron Inc
1421 Old County Rd Helmont 10 Calif 6

Cambridge Instrument Co
Grand Central Terminal
New York 17 NY 5-22-27-32

Cardinal Instrumentation Corp
4201 Redwood Ave
Los Angeles 66 Calif 26-27-28

Central Scientific Co of Calif
1040 Martin Ave
Santa Clara Calif 1-16-21-22

Central Scientific Co of Canada Ltd
146 Kenia Ave Toronto 4 Ont Canada 1-22

Chemalloy Electronics Corp
Gillespie Airport San Jose Calif 1

Cinema-Television Ltd
Worsley Bridge Rd
Lower Sydenham London 8 E 26 England 10

Columbia Research Labs
MacDade Blvd & Bullens La Wauville Pa 6

Computer-Measurements Corp 5528 7-11-13-
Vineland Ave N Hollywood Calif 23-29

Consolidated Electrodynamics Corp
309 N Sierra Madre Villa
Pasadena Calif 32-35

Cramer Controls Corp
Centerbrook Conn 11

Crescent Engineering & Research Co
6440 N Peck Rd
El Monte Calif 6-8-10-12-32

Curtiss-Wright Corp Electronics Div
631 Central Ave Carlstadt NJ 35

Davey Co
Route 10 Livingston NJ 36

Davenport Mfg Co
1113 N Ashland Ave
Chicago 22 Ill 6-11-13-34-36

DeBance Eng'g & Microwave Corp
Beverly Airport Beverly Mass 34

DeJure-Anso Corp Electronics Sales Div
45-01 Northern Blvd
Long Island City 1 NY 11-14-20

Dice Co J W
16 Highwood Ave Englewood NJ 12

D & R Ltd
402 E Gutierrez St Santa Barbara Calif 15

Dynac Inc
395 Page Mill Rd Palo Alto Calif 11-19-29

Dyna-Kempire Inc
1075 Stewart Ave Garden City LI NY 2

Edison Industries Thomas A Instrument Div
McGraw-Edison Co 5 Lakeside Ave
W Orange NJ 28

Electromech Mechanisms Inc
Rt 9 Haddam Conn 1

Electrical Eng'g & Mfg Corp
4612 W Jefferson Blvd
Los Angeles 16 Calif 1

Electric Boat Div General Dynamics
Eastern Point Rd Groton Conn 32

Electro Instrument Inc
Aero Ct San Diego Calif 27

Electronic Associates Inc
Long Branch NJ 3

Electro Physics Co
257 Broadway New York 7 NY 20-21

Elfa Instrument Center
55 Renss St New York 7 NY 20-21-28

Edison Draft Gauge Co
548 W Monroe St Chicago 6 Ill 1

El-Tronics Inc
Penn Ave Mayfield Pa 11

Engelhard Industries Inc
113 Astor St Newark NJ 30

Eppley Lab Inc
12 Sheffield Ave Newport RI 19

Ereona Corp
551 Fifth Ave New York 17 NY 1-17

Eric Resistor Corp
644 W 12 St Erie 6 Pa 11

Eso Instrument Co
96 S Washington Ave Bergenfield NJ 21

Esterline-Angus Co
P O Box 596 Indianapolis 6 Ind 13-26-29-34

Fisher Pierce Co
170 Pearl St S S Braintree 85 Mass 16-21

Fluorocool Labs Inc
308 Victory Blvd New Rochelle NY 33

Foster Eng'g Co
835 Lehigh Ave Union NJ 23

Foxboro Co
Neponset Ave Foxboro Mass 11-26-27-28

Geertner Scientific Corp
1210 Wrightwood Ave Chicago 14 Ill 17

Georfonics Corp
32 Nashua St Woburn Mass 26

General Electric Co
Apparatus Sls Div
1 River Rd
Schenectady 2 NY 2-11-14-16-20-22-26-29-32-34-35-36

General Radio Co
275 Massachusetts Ave
Cambridge 39 Mass 20-32

Geotechnical Corp
3712 Haggard Dr Dallas 9 Texas 5-32

Glens Falls Lab
Box 683 Glens Falls NY 18-20

Gordon Enterprises
5362 N Cahuenga Blvd
N Hollywood Calif 7-11-13-14-16-20-21

Gray Instrument Co
200 E Church Lane Philadelphia 44 Pa 34

Gulton Industries Inc
212 Durham Ave Metuchen NJ 6

Hagen Chemicals & Controls Inc
343 4 Ave Pittsburgh 30 Pa 18

Hallikainen Instruments
1341 7 St Berkeley 10 Calif 1

Hall Sonic Eng'g Co
2402 E St Peru Ill 15

Haydon Co A W
232 N Elm St Waterbury 20 Conn 11-29

Haydon Div General Time Corp
245 E Elm St Torrington Conn 11-29

H-B Instrument Co
American & Bristol Sts Phila Pa 28

Hellige Inc
375 Stewart Ave Garden City NY 1

Hewlett-Packard Co
275 Page Mill Rd Palo Alto Calif 24

Hickok Electrical Instrument Co
10514 Dupont Ave
Cleveland 8 Ohio 8-9-20-26-27-28-26

Hill & Co E Vernon
P O Box 188 Lake Geneva Wis 28-35

Hoffman Electronics Corp
3761 S Hill St Los Angeles 7 Calif 19

Howell Instrument Co
3101 Trinity St Ft Worth 7 Texas 22

Hoyt Electrical Instrument Works
42 Carleton St Cambridge 42 Mass 34

Ilumin Instrument Div Erie-Pacific
12832 S Welter Way
Hawthorne Calif 7-13-23-29

Ideal Precision Meter Co
126 Greenpoint Ave
Brooklyn 22 NY 27-34-36

Illinois Testing Labs Inc
420 N LaSalle St Chicago 10 Ill 22-27-28

I-L-S Instrument Corp
4525 W 160 St Cleveland 11 Ohio 7-11-13-26

51—METERS, SPECIAL PURPOSE

Colorimeters	1
Gaussmeters	2
Machmeters	3
Magnetometers	4
Meters, acceleration	5
Meters, cable testing	6
Meters, counting rate	7
Meters, deflection	8
Meters, deviation	9
Meters, dosimeter	10
Meters, elapsed time	11
Meters, electronic micrometer	12
Meters, events-per-unit time	13
Meters, exposure for film	14
Meters, flutter	15
Meters, foot candle	16
Meters, goniometer	17
Meters, industrial	18
Meters, infrared	19
Meters, light	20
Meters, photoelectric	21
Meters, pyrometer	22
Meters, rate	23
Meters, ratio	24
Meters, spectral	25
Meters, tachometer	26
Meters, thermocouple	27
Meters, thermometer	28
Meters, time	29
Meters, ultra violet	30
Meters, vibrating reed	31
Meters, vibration	32
Meters, x-ray intensity	33
Meter shafts	34
Micrometers	35
Multipliers, meter	36

Abrams Instrument Corp
606 E Shiawassee St Lansing 1 Mich 29

Acromag Inc
22519 Telegraph Rd Detroit 41 Mich 26

Admiral Corp
3800 W Cortland St Chicago 47 Ill 10

Advanced Electronics Inc
94 Silas Deane Hwy Rocky Hill 9 Conn 32

Advanced Instruments
45 Kenneth St
Newton Highlands 61 Mass 21-28

Advanced Products
59 Broadway North Haven Conn 11

Aero Electronics Co
1512 N Wells St Chicago 10 Ill 24

Aero Instrument Co
11423 Vanowen St N Hollywood Calif 11-31

Innoset-(O)Graph Corp
1300 Euclid Ave Cleveland 15 Ohio 6-32

Indikon Co
76 Coolidge Hill Rd
Watertown 72 Mass 32

Ind Test Equip Co
55 E 11th St New York 3 NY 24

Inertia Switch
327 Lexington Ave New York 17 NY 5

Instrument Development Labs Inc
67 Mechanic St Attleboro Mass 1

Instrument Labs
315 W Walton Pl Chicago 10 Ill 6-18

International Register Co
2820 W Washington Blvd Chicago 11 Ill 29

International Research & Development Corp
P O Box 55 Worthington Ohio 32

International Telephone & Telegraph Corp
Industrial Products Div
250 Garibaldi Ave Lodi NJ 8

I Q Industries
1714 Westwood Blvd Los Angeles 24 Calif 18

Irsin Labs
1238 S Gerhart Ave
Los Angeles 22 Calif 4

Isotopes Specialties Co
Box 608 Burbank Calif 7-10

Janco Corp
3111 Wilsons Ave Burlingame Calif 54

Jarrell-Ash Co
26 Farwell St Newtonville 60 Mass 1

Johnson Aircraft Eng'g Co M J
Box 19 Morristown Airport
Morristown NJ 6

Kali Scientific Instrument Corp
P O Box 186 El Cajon Calif 28

Kahn & Co
541 Windsor St Hartford 1 Conn 32

K-F Development Co
2606 Spring St Redwood City Calif 34

King Electric Equipment Co
9125 Innis Ave Cleveland 5 Ohio 26-34

Lampkin Labs Inc
R F D 1 Bradenton Fla 9

Land-Air Inc
7444 W Wilson Ave Chicago 31 Ill 32

Landsverk Electrometer Co
431 Sonoma Ave Glendale 4 Calif 10-31

Laser Northrup Co
4970 Stenton Ave
Philadelphia 44 Pa 22-27-35

Lewis Eng'g Co
338 Church St Naugatuck Conn 22-27-28

Magnafax Corp
7300 W Lawrence Ave Chicago 31 Ill 2

Magnuson Engineers Inc
509 Emory St San Jose 10 Calif 1

Mairo Co Inc
21 N 3rd St Minneapolis 1 Minn 26

Manufacturers Eng'g & Equip Corp
York Rd & Sunset Lane Haddon Pa 1

Mario Electrical Instrument Co
Greiner Field Manchester NH 11

Maxson Instruments Div
W L Maxson Corp
47-37 Austell Pl Long Island City 1 NY 8

MB Mfg Co Div Textron Inc
P O Box 1825 New Haven 11 Conn 32

Measurement Eng'g Ltd
232 John St Asperup
Ontario Can 7-11-13-16-20-21-22-23-26

Metra Inc
5353 N Keystone Ave
Indianapolis 20 Ind 22

Motron Instrument Co
432 Lincoln St Denver 3 Colo 26

Miljan Inc Div Paul Omohondro Co
P O Box 356-15606 Vermont Ave
Paramount Calif 18

Miller Instrument Inc
165 E Lincoln Ave
Escandido Calif 12-18-20-33-34

Miller M C
Box 721 E Saddle River Rd Allendale NJ 34

Mine Safety Appliances Co
201 N Braddock Ave Pittsburgh 8 Pa 1-19

Minn-Honeywell Boston Div
1400 Soldiers Field Rd Boston 35 Mass 5

Minn-Honeywell Regulator Co
Instruments Div Wayne & Windrim Aves
Philadelphia 44 Pa 22-26-27-28

Minn-Honeywell Regulator Co
Rubicon Instruments
Ridge Ave at 35 St Philadelphia 32 Pa 1

Moeller Instrument Co
132-02 89 Ave
Richmond Hill 18 NY 22-28-29

Mulhrend Instruments Inc
677 5 Ave New York 22 NY 32

Munsell Color Co
10 E Franklin St Baltimore 2 Md 1

Narda Microwave Corp
118-160 Herricks Rd Mineola NY 24

National Instrument Labs Inc
6108 Rhode Island Ave Riverdale Md 35

Non-Linear Systems Inc
Del Mar Airport Del Mar Calif 9-24

Norton Products Mfg Co
352 Hleecker St New York 14 NY 30

NRD Instrument Co
9842 Manchester Rd St Louis 14 Mo 33

Nuclear-Chicago Corp
223 W Erie St Chicago 10 Ill 23-31

Nuclear Corp of America
400 Park Ave New York 22 NY 33

Nucleonic Corp of America
136 Degraw St
Brooklyn 31 NY 7-10-11-23

Opad Electric Co
59 Murray St New York 7 NY 18

Orion Corp
3526 State St Santa Barbara Calif 32

Packard Instrument Co
P O Box 428 La Grange Ill 7-13

Paschel Electronics Inc
13 Garden St New Rochelle NY 6-18

Phoenix Precision Instrument Co
3803 N 5 St Philadelphia 40 Pa 1-16-21

Photovolt Corp
95 Madison Ave New York 16 NY 10-14

Physics Research Labs Inc
P O Box 555 Hempstead NY 34-36

Polarad Electronics Corp
43-20 34 St Long Island City NY 24

Potter Aeronautical Corp
Route 22 Union NJ 13-23-24-26

Precision Measurements Corp
Rd 1 Millbrook Rd Flemington NJ 6

Precision Meter Co
126 Greenpoint Ave Brooklyn 22 NY 18-27

Production Research Corp
Thornwood NY 10

PRC Applied Research Ltd
1500 O'Connor Dr Toronto 16 Canada 4

Pys Canada Ltd
52 Northline Rd
Toronto 16 Ontario Canada 1-2

Pyrometer Instrument Co
92 Portland Ave Hergenfield NJ 22-27

Radar Engineers
Rd 1 45 St Seattle 5 Wash 6

Radiation Counter Labs Inc
5121 W Grove St Shokin Ill 10

Radio City Products Co
Centre & Glendale Sta Easton Pa 17

Radio Eng'g Co
8 State St New York 4 NY 20

Radio Frequency Labs Inc
Houton NJ 2-6

Ram Meter Inc
1100 Hilton Rd
Ferndale 20 Mich 5-6-7-18-26-34-36

Raucher & Retold Inc
750 N Franklin St Chicago 10 Ill 28

Rasson Electrical Instrument Co
116 Potter St Cambridge 42 Mass 2-27

Roller Smith Corp
1825 W Market St Bethlehem Penna 11

Royco Instruments
720 Arthur St Albany Calif 27

Royco Instruments Inc
874 Fabian Way Palo Alto Calif 27

Samples Machine Co A M
208 Tazewell Pike Knoxville 18 Tenn 10

Sangamo Electric Co
1207 N 11th St Springfield Ill 26-34

Scherr Co George
500 Lafayette St New York 12 NY 26

Scientific Glass Apparatus Co
100 Lakewood Terrace Bloomfield NJ 1

Sensitive Research Instrument Corp
310 Main St New Rochelle NY 2-24-27-34

Servo-Recording Instruments Inc
1815 W Van Huren St
Phoenix Ariz 7-10-12-23-31

Servo-Tek Products Co
1086 Galle Rd Hawthorne NJ 26

Sessions Clock Co
41 E Main St Forestville Conn 29

Sierra Electronic Corp
3895 Bohannon Dr Menlo Park Calif 6

Simpson Electric Co
5200 W Kinzie St
Chicago 44 Ill 11-27-34-35-36

S O S Cinema Supply Corp
602 W 52 St
New York 19 NY 11-14-15-16-26

Specialties Inc
Skunks Misery Rd Syosset 11 NY 20

Specialty Eng'g & Electronics Co
78 Clifton Pl Brooklyn 38 NY 10

Standard Electronics Research Corp
1 E End Ave New York 21 NY 12

Statistical Instr Co
330 Haven Ave New York 33 NY 5-15-36

Stewart Instrument Co
6507 Grand River Detroit 8 Mich 23

Sticht Co Herman H
27 Park Pl New York 7 NY 11-26-29-31

Sun Electric Corp
Harlem & Avondale Ave
Chicago 31 Ill 11-26-27-34

Syatron Corp
2055 Concord Blvd
Concord Calif 7-9-11-13-18-26-29

Taber Instrument Corp
111 Gounsey St N Tonawanda NY 32

Taylor Instruments Companies
95 Ames St Rochester 1 NY 18-26-27-28-29

Teledrome Mfg Corp
28 Ranick Dr Amityville 11 NY 1

Telectro Industries Corp
35-18 37 St Long Island City 1 NY 15

Temperature Eng'g Corp
U S Hwy 130 Riverton NJ 22-27

Textran Corp
Box 4252 Austin 51 Texas 13

Thermo Electric Co
109 5 St Saddle Brook NJ 22-27

Thermo Electric Mfg Co
6112 Huff St Dubuque Iowa 27

Tracerlab Inc
1601 Trapelo Rd Waltham 54 Mass 7-10-33

Trans Electronic Inc
7349 Canoga Ave Canoga Park Calif 35

Transformers Inc
200 Stage Rd Vestal NY 24

Triplet Electrical Instrument Co
Harmon Rd Bluffton Ohio 18-27-34-36

Tullamore Electronics Lab
6085 S Ashland Ave Chicago 36 Ill 7

UAC Electronics Div
Universal Transistor Prods Corp
50 Bond St Westbury LI NY 23

Ultra-Violet Products Inc
3114 Walnut Grove Ave
San Gabriel Calif 30

Union Switch & Signal Div
1789 1807 Braddock Ave
Swissvale P O Pittsburgh 8 Penna 24

Uniwave Inc
108 Marine St Farmingdale NY 26

U S Taximeter Corp
516 W 54 St New York 19 NY 11

Victoreen Instrument Co
6806 Hough Ave
Cleveland 3 Ohio 7-23-38

Wachine Inc
35 S St Clair St
Dayton 2 Ohio 6-11-12-26-27-29-34-36

Walkirt Co
141 W Hazel St Inglewood 3 Calif 13

Waltham Precision Instrument Co
221 Crockett St Waltham 54 Mass 7-11-29

Wang Labs Inc
37 Hurley St Cambridge 41 Mass 26

Wash Eng'g Co
7842 Burnet Ave Van Nuys Calif 26

Wayne-Kerr Inst
P O Box 801 Phila 5 Pa 12

Wekeler Instruments Corp
195 E Merrick Rd Freeport 11 NY 28

Welch Scientific Co W M
1515 Seeligwick St
Chicago 10 Ill 16-18-22-34-36

West Instrument Corp
4363 W Montrose Ave
Chicago 41 Ill 22-27-28

Westberg Mfg Co
144 S Caumba St Napa Calif 24

Westinghouse Electric Corp
P O Box 868
Pittsburgh 30 Pa 11-26-27-29-34-36

Weston Electrical Instrument Corp
614 Frulinghussen Ave
Newark 12 NJ 11-14-16-22-26-27-28-34

Williamson Development Co
317 Main St W Concord Mass 19-22

Winslow Co
791 Lehigh Ave Union NJ 6-8-11-31-34-36

Yellow Springs Instrument Co
P O Box 106 Yellow Springs Ohio 28

Zenith Electric Co
152 W Walton St Chicago 10 Ill 29

Zenith Optical Lab
1940 Great Neck Rd
Copingue LI NY 11-26-27-28-29-34

Zernickow Co O
15 Park Row New York 38 NY 26

52—MICROPHONES

Handsets, telephone 1

Microphones, aircraft type 2

Microphones, carbon 3

Microphones, ceramic 4

Microphones, condenser 5

Microphones, contact 6

Microphones, crystal 7

Microphones, differential 8

Microphones, dynamic 9

Microphones, hearing aid 11

Microphones, lapel 12

Microphones, lip 13

Microphones, magnetic 14

Microphones, noise cancelling 15

Microphones, pressure 16

Microphones, throat 17

Microphones, velocity 18

Microphones, wireless 19

Sound powered telephones 20

Altec Lansing Corp
1515 S Manchester Ave
Anaheim Calif 2-5-6-9-12-16-18

American Gelsco Electronics Inc
312 7th Ave New York 1 NY 2-9

American Microphone
Dept/Elgin National Watch
366 Bluff City Blvd
Elgin Ill 1-2-3-4-7-9-12-15-20

Amplivox Ltd
2 Bentler St
London W 1 England 2-8-11-14-15

Applied Electronics Co
213 E Grand Ave S San Francisco Calif 3

Argonne Electronics Mfg Corp
165-11 South Rd Jamaica 33 NY 7-9-12-14

Asatic Corp
250 Harbor St Conneaut Ohio 2-3-4-7-9-12

Atlantic Research Corp
901 N Columbus St Alexandria Va 4-16

Audio Instrument Co
133 W 14 St New York 11 NY 5

Audio Sears Corp
Shepard Hill Rd
Rochester NY 1-2-3-8-9-13-14-15-20

Automatic Electric Co
1033 W Van Buren St Chicago 7 Ill 1

Barker & Williamson Inc
Canal & Beaver Sts Bristol Pa 5

Rogen-Presto Div Siegler Corp
P O Box 500 Paramus NJ 1

Brush Instruments
3405 Perkins Ave Cleveland 14 Ohio 5-16

Budelman Radio Corp
375 Fairfield Ave Stamford Conn 19

Camera Equipment Co
315 W 43rd St New York 36 NY 1-7-9

Canadian Astatic Ltd
2273 Danforth Ave
Toronto 13 Ont Canada 3-4-6-7-9-11-12-15

Capps & Co
20 Addison Pl Valley Stream LI NY 5-7

Century Lighting Inc
521 W 43 St New York 36 NY 10

Chesapeake Instrument Corp
Shadyside Md 4-9-15

Commercial Radio Sound Corp
652 1 Ave New York 16 NY 1-15

Conn Telephone & Electric Corp
70 Britannia St
Meriden Conn 1-2-3-13-15-20

Continental Electronics Ltd
302 Oakland St Brooklyn 22 NY 1-14-20

Cosser Canada Ltd
301 Windsor St
Halifax Nova Scotia Canada 9-18

Duotone Co
Locust St Keyport NJ 12

Dx Radio Products Co
2300 W Armistize Ave Chicago 47 Ill 9

Dyn-Electri Inc
1065 Stewart Ave Garden City LI NY 11-14

Electro-Sonic Labs
35-54 36 St
Long Island City 8 NY 8-9-15-16-17

Electro-Voice Inc
Cecil & Carroll Sts
Buchanan Mich 2-3-4-6-7-8-9-15-16

Elgin National Watch Co
107 National St
Elgin Ill 3-4-5-6-7-9-12-15-16

Endeco Eng'g Development Co of Los Angeles
148-50 Wilmington Blvd Wilmington Calif 3

Ercona Corp
551 Fifth Ave New York 17 NY 9

Fanon Electric Co
90 Berriman St Brooklyn 8 NY 1-3-20

Fen-Tone Corp
106 5th Ave
New York 11 NY 12-13-14-15-16-17-18

Gai-Tronics Corp
607 Washington St Reading Penna 1-15

Gray Mfg Co Inc
16 Arbor St Hartford 1 Conn 20

Hal-Hen Co
36-14 11 St Long Island City 6 NY 7-11

International Research Associates
2221 Warwick Ave Santa Monica Calif 5

Knowles Electronics Inc
9400 Belmont Franklin Park Ill 11-14

Linlar Inc
4101 San Fernando Rd
Glendale 4 Calif 1-2-9-15

Massa Laboratories Inc
5 Fottler Rd Hingham Mass 6

Melody Master Mfg Co
2842 N Cicero Ave Chicago 41 Ill 8

Michigan Electronics Inc
854 N Rockwell St Chicago 22 Ill 19

Molded Insulation Co
335 E Price St Philadelphia 44 Pa
Myers & Sons E A
Valley Brook Rd Canonsburg Pa 11-14

Nichols & Clark Inc
321 Newburyport Tpk Danvers Mass 11

Nichols & Clark Inc
321 Newburyport Tpk Danvers Mass 11

Omeza Instrument Co
103 E Altadena Dr Altadena Calif 5-16

Palmer Inc
4002 Fruit Valley Rd Vancouver Wash 1

Pearce Simpson Inc
3023 Coral Way Miami 34 Fla 3

Permoflux Products Co
4101 San Fernando Rd
Glendale 4 Calif 1-2-9-15

Philmore Mfg Co
115 University Pl New York 3 NY 8

Photocon Research Products
421 N Altadena Dr Pasadena Calif 5-16

Precision Hearing Aids
5157 W Grand Ave Chicago 39 Ill 9

Production Research Corp
Thornwood NY

Radio Corp of America
Commercial Electronic Products
Front & Cooper Sts
Camden NJ 1-2-3-4-7-9-12-14-15-16-8

Remler Co
2101 Bryant St
San Francisco Calif 1-2-14-15

Roanwell Corp
662 Pacific St
Brooklyn 17 NY 1-2-3-9-12-14-15

Roflan Co
Topfield Mass 13-14-15-16-17-18-19-20

Ronette Acoustical Corp
190 Earle Ave Lynbrook NY 7-11-12

Schindlers
2429 Beverly Ave Santa Monica Calif 6

Shure Bros
222 Hartrey Ave
Evanston Ill 1-2-3-4-7-9-11-12-14-18-19

Sonar Radio Corp
3050 W 21 St Brooklyn 24 NY 3

Sonotone Corp
P O Box 200-Saw Mill River Rd
Elmsford NY 4-11

S O S Cinema Supply Corp
602 W 52 St
New York 19 NY 1-3-5-7-9-12-14-18-19-20

Stephens Tru-Sonic Inc
8538 Warner Dr Culver City Calif 5-19

Stromberg-Carlson Div General
Dynamics Corp 100 Carlson Rd
Rochester 3 NY 1-9-14-15

Symphony Electronics Corp
925 S Western Ave Los Angeles 6 Calif 7

Telectro Industries Corp
35-18 37 St Long Island City 1 NY 19

Telephonics Corp
Park Ave
Huntington LI NY 1-2-3-8-9-13-14-16-16-20

Telex
1633 Eustis St
St Paul 1 Minn 3-9-11-14-15

Tibbetts Industries Inc
Colcord Ave Camden Me 7-11-14

Turner Co
909 17 St NE
Cedar Rapids Iowa 2-3-4-6-7-9-12-14-15

Universal Microphone Co
Box 55
Inglewood Calif 2-3-4-5-6-7-8-9-12-13-14-15-17

U S Instrument Corp
P O Box 1191 Charlottesville Va 1-20

Valandy Electronics Corp
61-35 166 St Flushing 68 NY 9-11

Webeor Inc
5610 Bloomingdale Ave Chicago 39 Ill 4

Western Electro Acoustic Lab Inc
1178 San Vincennte Blvd
Los Angeles 49 Calif 6

53—MICROPHONE ACCESSORIES

Microphone booms 1
Microphone connectors 2
Microphone covers 3
Microphone desk mounts 4
Microphone springs 5
Microphone stands 6
Microphone transformers 7

Aerovox Corp Pacific Coast Div
2724 S Peck Rd Monrovia Calif 7

Altee Lansing Corp
1515 S Manchester Ave Anaheim Calif 6-7

American Halo Electronics Inc
312 7th Ave New York 1 NY 6

American Microphones
Deut Elgin National Watch
366 Bluff City Blvd Elgin Ill 1-2-3-6

Amphenol Electronics Corp
1830 S 54 Ave Chicago 50 Ill 2

Astatic Corp
250 Harbor St Conneaut Ohio 8

Atlas Sound Corp
1449 39 St Brooklyn 18 NY 1-4-6

Audio Sears Corp
Shepard Hill Rd Roxbury NY 1

Baughman Co E J
1914 N Cogswell Rd El Monte Calif 1

Better Coil & Transformer Corp
Goodland Ind 7

Birnbach Radio Co
145 Hudson St New York 13 NY 2

Calif Magnetic Control Corp
11822 Valerio St N Hollywood Calif 7

Camera Equipment Co
315 W 43rd St New York 36 NY 1-2-4

Camera Mart Inc
1845 Broadway New York 23 NY 3

Canadian Astatic Ltd
2273 Danforth Ave
Toronto 13 Ont Canada 4-6

Celco Constantine Eng'g Labs Co
P O Box 555 Mahwah NJ 7

Chicago Standard Transformer Corp
3501 W Addison St Chicago 18 Ill 7

Cinch Mfg Corp
1026 S Homan Ave Chicago 24 Ill 2

Cosser Canada Ltd
301 Windsor St
Halifax Nova Scotia Canada 4

Dazor Mfg Corp
4481-59 Duncan Ave St Louis 10 Mo 6

Dialight Corp
60 Stewart Ave Brooklyn 37 NY 2

Electro-Sonic Labs
35-54 36 St Long Island City 6 NY 2-6-7

Electro-Voice Inc
Cecil & Carroll Sts Buchanan Mich 2-3-4-6-7

Elgin National Watch Co
107 National St Elgin Ill 3-6

Ercona Corp
551 Fifth Ave New York 17 NY 9

Esprey Mfg Co
Congress & Ballston Ave
Saratoga Springs NY 7

Federal Shuckmount Corp
1060 Washington Ave New York 56 NY 4

Fen-Tone Corp
106 5th Ave New York 11 NY 1-4-6

Flexo International Corp
3720 N Milwaukee Ave Chicago 41 Ill 1-4-6

Forest Electric Co NY
7216 Circle Ave Forest Park Ill 7

Foster Transformer Co
3820 Colerain Ave Cincinnati 23 Ohio 7

Gordon Enterprises
5362 N Cahuenga Blvd N Hollywood Calif 1

Gray Mfg Co
16 Arbor St Hartford 1 Conn 4

Insuline Corp of America
186 Granite St Manchester NH 2

Jones Div Howard B Cinch Mfg Co
1026 S Homan Ave Chicago 24 Ill 2

Lab-Tronics Inc
3656 N Lincoln Ave Chicago 13 Ill 2

Langwin Mfg Corp
47-37 Austell Pl
Linlar Inc 7

4101 San Fernando Rd Glendale 4 Calif 7

Litton Industries of Calif
336 N Foothill Rd Beverly Hills Calif 7

Luso Lamp Corp
102 Columbus Ave Tuckahoe NY 1-4-6

Mandev Mfg Co
2608 W 16 St Chicago 8 Ill 2

Merit Coil & Transformer Corp
4427 N Clark St Chicago 40 Ill 7

Molded Insulation Co
335 E Price St Philadelphia 44 Pa 2

National Cine Equipment Inc
209 W 48 St New York 36 NY 1

Newcomb Spring Corp
177 E Hawthorne Ave Valley Stream NY 5

Nyl Electronics Inc
2979 N Ontario St Burbank Calif 7

Palo Alto Eng'g Co
620 Paue Mill Rd Palo Alto Calif 7

Peerless Electrical Products
1515 S Manchester Ave Anaheim Calif 7

Permoflux Products Co
4101 San Fernando Rd Glendale 4 Calif 7

Petroff Corp Peter A
127 Water St New York 5 NY 6

Roanwell Corp
662 Pacific St Brooklyn 17 NY 1-6

Racon Electric Co
1251 Broadway New York 1 NY 4-6

Radio Corp of America
Commercial Electronic Products
Front & Cooper Sts Camden NJ 1-3-4-5-6

Richards Electrocraft Inc
4432 N Kedmi Ave Chicago 18 Ill 2

Roflan Co
Topfield Mass 1-2-3-4-5-6-7

Saratoga Industries
Congress & Ballston Ave
Saratoga Springs NY 7

Shure Bros
222 Hartrey Ave Evanston Ill 7-3-4-6

SNC Mfg Co
P O Box 277 Oshkosh Wis 7

Snyder Mfg Co
22 & Ontario Sts Philadelphia 40 Pa 6

S O S Cinema Supply Corp
602 W 52 St New York 19 NY 1-2-3-4-5-6-7

Southwestern Industrial Electronics Co
2831 Post Oak Rd Houston 19 Texas 7

Spitform Inc
65 Mechanic St Attleboro Mass 7

Standard Electrical Products Co
2240 E 3 St Dayton 3 Ohio 7

Stromberg-Carlson Div General Dynamics
Corp 100 Carlson Rd Rochester 8 NY 4

Switchcraft Inc
1828-30 N Halstead St Chicago 30 Ill 2

Technicraft Labs Inc
Thomaston-Waterbury Rd Thomaston Conn 4

Telectro Industries Corp
35-18 37 St Long Island City 1 NY 7

Telephonics Corp
Park Ave Huntington LI NY 1-2

Telex
1633 Eustis St St Paul 1 Minn 1-7

Transformers Inc
200 Stage Rd Vestal NY 7

Turner Co
909 17 St N E Cedar Rapids Iowa 2-4-6-7

TV Specialty Co
350 W 31 St New York 1 NY 1

Union Electric Products Co
24 Edison Pl Newark 2 NJ 7

U S Electronics Corp
278 Warren St Lyndhurst NJ 7

54—MICROWAVE COMPONENTS

Antennas 1
Assemblies 2
Attenuators 3
Bands 4
Cavities 5
Calorimeters 6
Converters 7
Couplers, directional 8
Crystal mounts 9
Diodes, microwave mixer 10
Discriminators 11
Duplexers 12
Filters 13
Flanges 14
Horns 15
Hybrid junctions 16
Isolators 17
Joints, fixed 18
Joints, rotating 19
Modulators, magnetic 20
Modulators, phase 21
Modulators, pulse 22
Mounts 23

Parabolas	24
Phasers	25
Probes	26
Repeaters	27
Repeaters, passive	28
R-F heads	29
Shutters	30
Sliding loads	31
Slotted lines	32
Switches	33
Terminations	34
Transmission lines	35
Turners	36
Waveguides, flexible	37
Waveguides, rigid	38
Waveguide stands	39
Waveguide switches	40
Waveguide test equipment	41
Waveguide windows	42

ACF Industries Nuclear Prods-Erco Div 48 Lafayette St Riverdale Md	1	
Ainalie Corp 312 Quincy Ave Quincy 49 Mass	1-15-18-19- 23-24-38-40	
Airborne Electronics Co 6513 Trout Ave N Hollywood Calif	2-15	
Airborne Instruments Lab Inc 160 Old Country Rd Mineola NY	1-3-25-24	
Aircrom Inc 1-2-3-4-5-8-9-11-13- 354 Main St Winthrop Mass	14-15-16-18-19-22-23- 26-29-31-32-34-35-36-38-39-41	
Aircrom Inc 139 E 1st St Roselle NJ	1-2-3-4-5-8-9-12-13-14-15-16-18- 19-23-25-26-29-30-34-35-38-40-42	
Airtronics Inc 5522 Darsey Lane Bethesda Md	33	
Airtron Inc 1-2-3-4-5-8-9-10-11-12-13-14-15- 1108 W Elizabeth Ave Linden NJ	16-17-18-19-20-21-22- 23-24-25-26-29-30-31-32-33-34-35- 36-37-38-40-41-42	
Alford Mfg Co 200 Atlantic Ave Boston 10 Mass	1-3-16-32	
Amsrac Inc Dunham Rd Beverly Mass	22	
American Electronic Laboratories 121 N 7 St Philadelphia 6 Pa	1-9-13	
American Lava Corp Subs Minn Mining & Mfg Cherokee Blvd & Mfra Rd Chattanooga 5 Tenn	42	
American Machine & Foundry Co Gen Eng Labs 11 Bruce Pl Greenwich Conn	1-15-18-19-24	
American Mica Radio Corp 235 Parker Ave Manassas NJ	42	
American Microwave Corp 11754 Vose St N Hollywood Calif	3-4-5-8-11-15-17- 24-27-28-29-37-38	
American Radar Components Inc Rt 10 Whippany NJ	11	
Amphenol Electronics Corp 1830 S 54 Ave Chicago 50 Ill	1-35	
Amtron Corp 17 Felton St Waltham 54 Mass	5-8-13-31	
Andrew Antenna Corp 606 Beech St Whitby Ontario Can	1-32-35-38	
Andrew California Corp 941 E Maryland Ave Claremont Calif	1-15-24-32-35-38-40	
Andrew Corp 303 E 75 St Chicago 10 Ill	1-15-24-32-35-38-40	
Andrew Radome Research Assoc Rt 10 Whippany NJ	1-3-8-9-12-13-15-16-17-18- Westbury NY	10-22-24-31-32-34-41
Antlab Inc 6330 Proprietors Rd Worthington Ohio	23	
Applied Radiation Corp 2404 N Main St Walnut Creek Calif	5-12	
Applied Research Inc 76 S Bayles Ave Port Washington NY	3-7-15-29-34	
Audicon Electronics Inc 216 Lyon St Paterson 4 NJ	18	
Automatic Electric Co 1053 W Van Huren St Chicago 7 Ill	34	
Automatic Metal Products Corp 323 Berry St Brooklyn 11 NY	8-9-33	
Automatic Switch Co Hanover Rd Florham Park NJ	33	
Avion Div ACF Industries Inc 11 Park Pl Paramus NJ	1-2-5-12-13-16-24-32	
Avions Ltd P O Box 206 Niagara-on-the-Lake Ontario Canada	3-5-8-9-12-16-39-41	
Avnet Electronic Supply Co 36 N Moore St New York 13 NY	14-37-38	
Barker & Williamson Inc Canal & Heaver Sta Bristol Pa	11	
Barkley & Dexter Laboratories 50 Frankfort St Fitchburg Mass	1	
Barl Mfg Corp 227 Main St Belleville NJ	1-4-5-15-35-38	
Bean & Co Morris Hyde Rd Yellow Springs Ohio	38	
Bell Aircraft Corp P O Box 1 Buffalo 5 NY	1	
Blaine Electronics Inc 14757 Keswick St Van Nuys Calif	1-24	
Bugart Mfg Corp 815 Seigel St Brooklyn 6 NY	1-2-3-4-5-8-9-10-12-13-16- 19-29-31-33-34-35-40	

Bogue Electric Mfg Co 52 Iowa Ave Paterson 3 NJ	7
Bolton Labs Inc W Main St Bolton Mass	3-41
Bomac Labs Inc Salem Rd Beverly Mass	3-5-10-11-12-20
Brach Mfg Corp/Div General Bronze Corp 200 Central Ave Newark 3 NJ	1-2-3-4-5-7-8-11-12-14-15-16- 18-19-23-24-29-34-37-38-39-40-42
Brooks & Perkins 1950 W Ford St Detroit Mich	15-24
Brooks & Perkins Inc 11655 Vanowen N Hollywood Calif	24-38
Budd Stanley Co 43-01 22 St Long Island City 1 NY	1-2-3-4-5-7-8-9-11- 30-33-35-38-40-41-42
Budelman Radio Corp 375 Fairfield Ave Stamford Conn	3-12
Bundy Electronics Corp 171 Fahyan Pl Newark 12 NJ	13
Cable Electric Products 234 Daball St Providence 7 RI	33-34-35
Calif Technical Industries Div Textron Inc 1421 Old County Rd Belmont 10 Calif	8-22-32-41
Canoga Corp 5955 Sepulveda Blvd Van Nuys Calif	1-2-12-15-17-19-22-24-29
Cascade Research Corp Div Monogram Precision Industries 53 Victory Lane Los Gatos Calif	12-17-20
Cavitron Electron Oscillator Co Div Short Wave Plastic Forming 355 N Newport Blvd Newport Beach Calif	5
Central Electronic Mfra Inc Sub Nuclear Corp of America 2 Richmond Pl Denville NJ	42
Ceramics Inc 364 Highland Ave Passaic NJ	1
CGS Laboratories Inc Routes 7 & 35 Ridgefield Conn	5
Chemalloy Electronics Corp Gillespie Airport Santee Calif	6-31-38
Clegg Labs Div Clegg Inc Ridgevale Ave Morristown NJ	12-41
Cusical Connector Co 37 2d Ave Mt Vernon NY	1-2-3-4-5-12-14- 16-26-32-34-35-38
Collins Radio Co 855 35 St NE Cedar Rapids Iowa	1-27-28-29
Communication Accessories Co P O Box 50 Hwy Lees Summit Mo	13
Connector Corporation of America 3223 Hurton Ave Burbank Calif	14
Consolidated Productions Inc Howard Intl Airport Ft Lauderdale Fla	2-3
Continental Electronics Mfg Co 4212 S Buckner Blvd Dallas 27 Texas	20-21-22
Control Electronics Co Inc 1925 New York Ave Huntington Sta NY	9
Co-Operative Industries Inc 100 Oakdale Rd Chester NJ	37
Corning Glass Works Corning NY	3
Convair-San Diego P O Box 1950 San Diego 12 Calif	1-29
Cubic Corp 5575 Kearny Villa Rd San Diego 11 Calif	4-6-16-34-37-38
Custom Components Inc P O Box 248 Caldwell NJ	17-34-40
Dalmin Victor Co Div Textron Inc 1515 Industrial Way Belmont Calif	1-12-20-36-38
DeBance Eng'g & Microwave Corp Beverly Airport Beverly Mass	1-2-3-5-8-9-12-13-14-15- 18-19-21-22-24-25-37-38
Demornay-Bonardi Corp 780 S Arroyo Pkwy Pasadena Calif	1-2-3-4-5-6-7-8-9-10- 11-12-13-14-15-16-18- 19-22-23-25-26-29-30-31-32- 33-34-35-36-38-39-40-41-42
Designers For Industry 4241 Fulton Pkwy Cleveland 9 Ohio	2-8-15-16-29
Deutschmann Corp Tohe Providence Hwy Norwood Mass	13
Diamond Antenna & Microwave Corp 7 North Ave Wakefield Mass	1-2-3-4-5-6-8-9-12-13-14-15- 16-18-19-23-24-25-26-29-31- 32-33-34-35-38-40-41
Dittmore-Freimuth Corp 2517 E Norwich St Milwaukee 7 Wis	1-2-3-5-11-13- 18-19-26-34-35-38
Don-Lan Electronics Co 1101 Olympic Blvd Santa Monica Calif	13-29-33-36-40
Dorne & Mayroin 29 New York Ave Westbury NY	1
Douglas Microwave Co 352 E 3 St Mt Vernon NY	1-2-3-4-5-8-9-12-15- 14-15-16-18-19-23-25-26-29-31- 32-33-34-35-38-39-40-42
D & S Mfg Co 84 Hyde Ave Ridley Park Pa	1-12-13
Dwyer Eng'g Co Pine St Ext Nashua NH	1-24
Dynatron Inc 717 W Amelia Ave Orlando Fla	29
Elo Mfg Co 137 Herrick Rd New Hyde Park 11 NY	2-3-5-8-9-10-12- 14-23-32-38
Electrical & Physical Instrument Corp 42-19 27 St Long Island City 1 NY	3-34
Electro Impulse Lab Inc 208 River St Red Bank NJ	3-4-6-26-41
Electronics Development Co 3743 Cahuenga Blvd N Hollywood Calif	12

Electronic Specialty Co 5121 San Fernando Rd Los Angeles 39 Calif	1-5-12-13-16-17-40
Electron-Radar Products 4806 W Chicago Ave Chicago 51 Ill	3
Electro-Physics Labs 2065 Huntington Dr San Marino Calif	5-26-34
Elm Labs 10 Washington Ave Huntington-On-Hudson NY	9
Emerson & Cuming Inc 869 Washington St Canton 1 Mass	1-3
Empire Devices Products Corp 38-15 Bell Blvd Bayside 61 NY	3
Empire Product Sales Corp 27 Prospect St Amsterdam NY	3-9-10-29
Enfo Corp Fellowship Rd Route 73 Maple Shade NJ	3
Engelhard Industries Inc 113 Astar St Newark NJ	2-5-37-40
Essex Electronics Div NYT Electronics Inc 7303 Atoll Ave N Hollywood Calif	11
Farnsworth Electronics Co Div I T & T 3702 E Pontiac St Ft Wayne Ind	1-9
Federal Shuckmount Corp 1060 Washington Ave New York 56 NY	9
Federal Telecommunication Labs Div IT&T 500 Washington Ave Nutley NJ	1
Filmohm Corp 48 W 25 St New York 10 NY	3-42
Filtran Co 10023 W Jefferson Blvd Culver City Calif	13
Fisher Eng'g Inc P O Box 327 Huntington Ind	22
Forbes & Wagner Inc 343 Central Ave Silver Creek NY	36
Ford-Video Labs Inc 25 Amity St Little Falls NJ	41
Fox Co Thomas T 95 Summit St Newark NJ	3-8-16-34-36-37-38
Frequency Standards Inc P O Box 504 Ashbury Park NJ	5-8-12-13-29-36-41
F-R Machine Works Inc Electronic & X-Ray Div 26-12 Honough Pl Woodside 77 NY	2-3-4-5-8-9-10-12-13- 14-15-16-17-18- 19-20-21-22-23-26-29-31- 32-33-34-35-36-39-40-41
Gabriel Electronics Div Gabriel Co 135 Crescent Rd Needham Heights 94 Mass	1-4-5-12-15- 19-24-28-32
Gair Precision Parts Inc 703 Pacific St Stamford Conn	38
General Cable Corp 420 Lexington Ave New York 17 NY	13
General Communication Co 677 Heacon St Boston 15 Mass	3-5
General Electric Co Specialty Electronic Component Dept Greenough St Auburn NY	21
General Electronic Co Power Tube Dept Bldg 267 Schenectady 5 NY	3-12
General Electric Co Communication Products Dept P O Box 1122 Syracuse NY	2-27-34
General Magnetics Inc 135 Bloomfield Ave Bloomfield NJ	20
General Radio Co 275 Massachusetts Ave Cambridge 39 Mass	32
General RF Fittings Inc 702 Heacon St Boston 15 Mass	1-2-3-4-5-8-9-12- 14-26-31-32-35-36
Geotechnical Corp 3712 Hngvar Dr Dallas 9 Texas	11
Glasser-Steers Corp 20 Main St Belleville 9 NJ	20
G & M Equipment Co 1315 Varua Ave N Hollywood Calif	3-41
Gomberg Inc Co John 111 Montgomery Ave Irvington 11 NJ	1-2-4-5-7-8-9-9- 13-15-16-19-29
Good Electric Corp Natick Mass	11
Goodrich Sponge Products B F Dr B F Goodrich Co Canal St Shelton Conn	3
Granger Associates 966 Commercial St Palo Alto Calif	1-2-13-22-24
Gulton Industries Inc 212 Durham Ave Metuchen NJ	1-5-24-32
Hammer Electronics Co Princeton NJ	11
Hansen Electronics Co 7117 Santa Monica Blvd Los Angeles 46 Calif	3-34
Hewlett-Packard Co 275 Page Mill Rd Palo Alto Calif	5-6-8-9-13-17- 31-32-34-36-39
Hulland Electronics 172 E 53 St Brooklyn NY	3-9-14-26-34-41
Huover Electronics Co 112 W Timonium Rd Timonium Md	1-8-13-15-16-25
Hourton Fearless Div Color Corp of America 11801 W Olympic Blvd Los Angeles 64 Calif	23-24
Howard Foundry Co 1700 N Kostner Ave Chicago 39 Ill	4-15-38
Ind Test Equip Co 55 E 11th St New York 3 NY	11
International Research Associates 2921 Warwick Ave Santa Monica Calif	25
I-T-E Circuit Breaker Co Special Products Div 601 E Erie Ave Philadelphia 34 Pa	1-2-3-4-15-32-36- 38-39-40-41
Jackson Electronics Inc 28 Waverest Rd West Chester Pa	13-16-34

Jones Electronics Co M C
185 N Main St Bristol Conn 8

Jones Optical Works A D
2400 Massachusetts Ave
Cambridge 40 Mass 42

J-V-M Eng'g Co 1-2-3-4-5-7-8-9-11-12-13-14-
4633 S Lawndale Ave 15-16-17-18-19-23-24-
Lyons Ill 25-26-29-30-31-32-33-34-
35-38-39-40-41

Kearfott Co Inc 1-2-3-4-5-6-7-8-9-10-
1375 Main Ave 11-12-13-14-15-16-17-
Clifton NJ 18-19-20-21-22-23-25-26-27-
28-29-32-33-37-38-39-40-41

Kearfott Co Inc
14844 Oxnard St 1-5-3-4-5-8-9-11-
Van Nuys Calif 12-13-16-17-18-29

Kellogg-Hays Co
3600 Military Ave 1-2-18-19-23-24
Detroit 32 Mich

Kemtron Electron Products Inc
14 Prince Pl Newburyport Mass 10

Kennedy & Co D S
155 King St Cohasset Mass 4-37-38

Kent Corp F C
54 Howard St Irvington 11 NJ 4-38

Kings Electronics Co Inc 1-2-3-4-5-8-9-
40 Marbledale Rd 12-13-14-15-16-19-26-
Tuckahoe NY 29-33-34-35-36-38-40

Kool Products Co
2355 N Cicero Ave Chicago 39 Ill 9

Laboratory For Electronics Inc 2-3-5-6-7-
75 Pitts St 8-9-11-13-16-17-20-21-22-
Boston 14 Mass 25-29-34-35-36-41

Lambda-Pacific Eng'g Inc
14725 Arminia St
Van Nuys Calif 1-3-4-12-13-27-28-41

La Pointe Industries Inc
155 W Main St Rockville Conn 1-2

Lavoie Labs Inc
Matawan-Freehold Rd Morranville NJ 5-12

Leach & Garner Co Industrial Div
Leach & Garner Bldg Attleboro Mass 38

Levinthal Electronic Products Inc
3180 Hanover St Palo Alto Calif 20-22

Lieco Inc 1-2-3-4-5-8-9-12-13-14-15-
3610 Oceanside Rd 16-18-19-24-25-30-31-
Oceanside NY 33-34-35-36-38-40-41

Liton Industries of Calif
336 N Foothill Rd
Beverly Hills Calif 6-16-17-18-19-20-23-38

Liton Industries Components Div
5873 Rodeo Rd Los Angeles 16 Calif 17-19

McMillan Industrial Corp
Brownville Ave Ipswich Mass 3

Magnesium Products of Milwaukee Inc
748 W Virginia St Milwaukee 4 Wisc 23

Malapenc Div D E Englishard Industries Inc
Pine & Denham Sts
Attleboro Mass 12-14-16-38

Manson Laboratories Inc
207 Greenwich Ave Stamford Conn 22

Mark Products Co
6412 W Lincoln Ave Morton Grove Ill 1

Maryland Electronic Mfg Corp
5009 Calvert Rd College Park Md 1-13-15

Mathie Co G F
6100 S Oak Park Ave
Chicago 38 Ill 1-23-27-28

Maxson Corp W L
475 10 Ave
New York 18 NY 1-19-21-22-23-24-27-28-29

Maxson Instruments Div W L Maxson Corp
47-37 Austell Pl Long Island City 1 NY 5

Melcor Inc
3000 Arlington Blvd Falls Church Va 13

Meridian Metalcraft Inc
8739 S Millergrove Dr 1-2-3-4-5-8-9-12-13-
Whittier Calif 14-16-18-19-31-34-35-38

Metal Fabricators Corp
63 Pond St Waltham 54 Mass 35-41

Metavac Inc
46-68 162 St Flushing 58 NY 3-42

Micraflight Products Inc
701 McCarter Hwy Newark 5 NJ 42

Micarta Fabricators Inc
5324 N Ravenwood Ave Chicago 40 Ill 9

Microfleet Co
2300 S 25 St Salem Ore 28

Microlab
Okner Pkwy
Livingston NJ 3-8-9-12-13-25-31-34-35-36

Microphase Corp
Box 1166 Greenwich Conn 5-12-13

Microtech Inc 1-2-3-4-5-7-8-9-11-12-13-14-15-16-
2975 State St 18-19-23-25-26-29-30-31-32-33-
Hamden 17 Conn 34-35-36-37-38-39-40-41-42

Microwave Associates Inc 3-4-5-6-8-9-10-12-
Burlington Mass 13-14-15-16-18-19-23-29-30-
31-32-33-34-40-41-42

Microwave Development Labs 2-3-4-5-8-9-12-
92 Broad St 13-14-15-16-18-19-25-29-30-
Rahon Park 57 Mass 31-33-34-38-40

Microwave Eng'g Labs Inc
943 Industrial Ave
Palo Alto Calif 9-13-17-20-21-40

Model Eng'g & Mfg Inc
50 Frederick St
Huntington Ind 1-2-4-5-8-15-16-18-19-38

Monaghan Co J J
500 Alcott St Denver 4 Colo 26

Monogram Precision Industries Inc
Cascade Research Div
53 Victory Lane
Los Gatos Calif 3-12-17-20-21-40-41

Narda Microwave Corp
118-160 Herricks Rd 1-3-4-5-8-9-13-14-15-
Mineola NY 16-23-26-32-34-36-39-41

National Radiac Inc
475 Washington St Newark 2 NJ 11

Nebel Laboratory R E
1634 E 12 St Brooklyn 29 NY 9

Nevada Air Products Co
P O Box 2472 Reno Nev 41

Nichols Products Co
325 W Main St Moorestown NJ 15-26-32-38

North American Instruments Inc
2420 N Lake St Altadena Calif 10

N R K Mfg & Eng'g Co 1-2-3-7-8-9-11-12-13-
4601 W Addison St 14-15-16-17-18-19-23-25-
Chicago 41 Ill 29-33-34-35-38-40-42

Nuclear Products-Ereo
Div ACF Industries Inc
Riverdale Md 1-2-14-23-38-39

NYT Electronics Inc
2979 N Ontario St Borba Calif 13

Omega Labs Inc
Haverhill St 1-3-3-4-5-8-9-15-16-22-
Rowley Mass 25-30-31-32-34-39-41

Pacific Universal Products Corp
168 Vista Ave Pasadena 8 Calif 42

Paul & Reekman
1501 W Courtland St Philadelphia 40 Pa 1-2

Phileo Corp
Tioga & C Sts Philadelphia 24 Pa 27-34

Phileo Corp Gov't & Industrial Div
4700 Wissahickon Ave
Philadelphia 44 Pa 1-2-24-27-28-29-34-35

Pix Mfg Co
75 Hudson St Newark 3 NJ 9

Polarad Electronics Corp
43-29 34 St Long Island City NY 1-2-3-5

Polytechnic Research & Development Co 3-4-
202 Tillary St 5-6-7-8-9-10-11-12-13-14-15-16-
Brooklyn 1 NY 17-18-19-29-31-32-34-36-39-41

Polytron Research Inc
7660 Woodbury Dr 2-3-4-5-7

Purichester Instrument
114 Wilkins Fort Chester NY 37-38

Precision Tube Co
Church Rd & Wissahickon Ave
North Wales Pa 35

Premier Instrument Corp 1-2-3-4-5-7-8-9-
52 W Houston St 11-12-13-15-16-18-
New York 12 NY 19-23-25-29-33-40-42

Process Wireless Labs Inc
25 Prospect Pl W Newton 65 Mass 2-26-41

Prodelin Inc
307 Bergen Ave Kearny NJ 1

Production Research Corp
Thornwood NY 1

PYE Canada Ltd
82 Northline Rd
Toronto 16 Ontario Canada 41

PYE Telecommunications Ltd
Newmarket Rd 1-2-4-23-24-27-
Cambridge England 29-35-37-38

Radar Design Corp
2560 James St N 1-2-3-4-5-8-9-11-12-13-15-
Syracuse 12 NY 16-26-29-31-32-33-34-35-36-41

Radiation Eng'g Labs
Main St Maynard Mass 1-15

Radiation Inc
P O Box 37 Melbourne Fla 1-7-11

Radio Corp of America
Communications Products Dept
Ridge 1-3 1-2-3-5-7-10-11-12-16-21-
Camden NJ 24-27-28-29-34-35

Radio Eng'g Labs
29-01 Borden Ave
Long Island City 1 NY 5-12-13-21-25

Ramo-Woodbridge Corp
Electronic Instrumentation Div
P O Box 8405 Denver 10 Colo 2-5-8-16-20

Raytheon Mfg Co
Receiving & Cathode Ray Tube Operations
55 Chapel St Newton 58 Mass 10

Raytheon Mfg Co Ceramic Sales
Foundry Ave Waltham Mass 42

Reg Co J H
1723 Cloverfield Blvd Santa Monica Calif 41

Reeves Instrument Corp
Roosevelt Field Garden City NY 3-19

Robinson Machine Works
802 E 8 St New Albany Ind 9

Roflan Co
Topsfield Mass 38

Safetec Glass Co
4717 Stenton Ave Philadelphia 44 Pa 42

Sage Labs Inc 1-2-3-4-5-8-9-12-13-15-16-17-
159 Linden St 18-19-23-26-29-31-32-33-34-
Wellesley 81 Mass 40-41-42

Sanders Associates
95 Canal St 1-2-3-8-9-11-12-13-16-22-
Nashua NH 24-29-32-33-34-35

Scientific-Atlanta Inc
2162 Piedmont Rd NE Atlanta 9 Ga 1-5-7

Shallcross Mfg Co
Jackson & Pusey Aves Collingdale Pa 3-33

Sierra Electronic Corp
3285 Bohannon Dr
Menlo Park Calif 6-5-9-22-34

Specialty Automatic Machine Corp
80 Cambridge St Burlington Mass 4-14-38

Spectralab Instruments
404 N Halsted Ave Pasadena Calif 5

Sperry Gyroscopic Co
Microwave Electronics Div 1-2-3-4-5-8-9-11-
Great Neck NY 12-13-15-16-18-19-
2-7-11-22-24-25-26-29-31-32-33-34-35-36-10-11

Spincraft Inc
4122 W State St Milwaukee 8 Wisc 24

Spinform Inc
65 Meahon St Attleboro Mass

Stackpole Carbon Co
St Marcs Pa 33

Stainless Inc
3 St North Wales Pa 1

Standard Electronics Div Radio Eng'g Labs
30 & Borden Sts
Long Island City NY 2-5-12-29

Summit Industries Inc
2104 W Rosecrans Ave Gardena Calif 1

Swan Electronics Co
5016 N Austin Ave Chicago 30 Ill 11

Swedlow Plastics Co
6986 Handlin Blvd Los Angeles 22 Calif 1

Sylvania Electric Products Inc
500 Evelyn Ave Mountain View Calif 12-17

Ta-Mar Inc
11571 W Jefferson Blvd
Culver City Calif 1-2-4-17-32-33-35-41

Taurus Corp
8 Corvett St Lambertville NJ 34

Technical Appliance Corp
1 Taco St Sherburne NY 1-24

Technical Oil Tool Corp 1-2-3-4-5-8-12-13-15-
1057 N La Brea 16-18-19-23-24-29-30-33-
Los Angeles 38 Calif 35-40-41

Technicraft Labs Inc 1-3-4-8-9-12-14-15-
Thomaston-Waterbury Rd 18-19-26-30-32-
Thomaston Conn 33-35-36-37-38-39-10

Techniques Inc
52 Jackson Ave Hackensack NJ 3-42

Telectro Industries Corp
33-18 37 St
Long Island City 1 NY 3-8-12-20-21-22-29-34

Telegraph Construction & Maintenance Co Ltd
Mercury House Thealds Rd
London W C 1 England 14-38

Telerad Mfg Corp
Route 69 1-2-3-4-5-7-8-9-12-13-14-15-16-18-
Flemington NJ 19-29-30-35-36-37-38-40-41

Telerad Mfg Corp 1-2-3-4-5-8-9-12-13-15-16-18-
1440 Broadway 19-22-23-26-29-32-33-34-35-
New York 15 NY 37-38-40-41-42

Tenora Aircraft Corp
P O Box 6191 Dallas 2 Texas 1

Texas Instruments Inc
6000 Lemmon Ave Dallas 9 Texas 1-38

Thompson Products Inc Electronics Div
2196 Clarkwood Rd Cleveland 3 Ohio 33-40

Thodes Inc
Hendler St Springfield 4 Mass 37

Topp Industries Inc
8907 Wilshire Blvd Beverly Hills Calif 32

Torolite Inc
5512 E 110 St Kansas City 54 Mo 11

Torwice Electronics Inc
1090 Morris Ave Union NJ 13-20

Tower Construction Co
2700 Hawkeye Dr Sioux City 2 Iowa 1-24-28

Trad Telechem Inc
1001 First Ave Ashbury Park NJ 2-9

Tranco Products Inc
12210 Nebraska Ave Los Angeles 25 Calif 1-12

Transitron Inc
186 Granite St Manchester NH 5-41

Transline Electronic Communication Co
95 Summit St Newark 3 NJ 16-28

Tru-Connector Corp
416 Union St Lynn Mass 29-34

Ultradyne Eng'g Labs
P O Box 3305 Albuquerque New Mex 21

Union Electronics & Machine Corp
71 Broadway Wakefield Mass 3-9-26

Univac Inc 2-3-4-5-8-12-13-14-15-16-18-
109 Marine St 19-23-26-31-32-34-
Farmingdale NY 35-36-38-39-40-41

U S Testing Co
1415 Park Ave Hoboken NJ 1

Utility Brass & Copper Corp
255 Conover St Brooklyn 31 NY 38

Van Norman Industries Inc Electronics Div
186 Granite St Manchester NH 8

Vectron Inc
1611 Trapelo Rd Waltham 54 Mass 2-5-5

Victor RF & Microwave Co 1-2-3-4-5-8-9-10-
36 W Water St 12-13-14-15-16-17-21-23-26-
Wakefield Mass 29-34-35-38-39-41

Waeline Inc
35 S St Clair St 2-3-4-6-9-23-26-
Dayton 2 Ohio 31-32-34-38-41

Waldorf Instrument Co Div F C Huyek & Sons
Park Ave Huntington Station NY 2-5

Walworth Co
750 3rd Ave 2-3-4-8-12-14-15-16-
New York 17 NY 18-19-21-24-25-26-29-30-31-32-33-
Warren Mfg Co 35-36-37-38-39-40-41-42

Newtown Rd Littleton Mass 5-36

Warren Plastics Corp
Warren Pa 9

Waveguide Inc 1-2-4-8-9-13-15-19-26-
Van Nuys Calif 30-33-34-36-38-40

WaveLine Inc 1-2-3-4-5-7-8-9-11-12-13-14-15-16-
P O Box 718 18-19-21-24-25-26-29-30-31-32-33-
Caldwell NJ 34-35-36-37-38-39-40-41-42

Wayne-Kerr Inst
P O Box 801 Phila 5 Pa 8

Weinisch Eng'g
19505 Metropolitan Ave Kensington Md 3-34

Westbury Electronics Inc
300 Shames Dr Westbury NY 1-5

Western Int'l Co
45 Vesey St New York 7 NY 88

Westinghouse Electric Corp
P O Box 868 Pittsburgh 80 Pa 2-11-27-28-34

Weymouth Instrument Co
1440 Commercial St E 1-5-10-13-14-15-24-
Weymouth 89 Mass 26-32-35-36-38

White Electron Devices Inc Roger
92 4 Ave Haskell NJ 3-12-21-29-33-40-41

Zenith Plastics Co
1600 W 135 St Gardena Calif 1-24

55—MILITARY EQUIPMENT

Actuators	1
Antennas, all wave	2
Cases, transit	3
Containers, shipping	4
Control center, portable	5
Frequency measuring equipment	6
Fuagicide equipment	7
Navigation equipment	8
Packaging materials	9
Power supplies	10
Scramblers, speech	11
Telemetry	12
Test units, acceleration	13
Test units, vibration	14
Transceivers, aviation	15
Transceivers, lifeboat	16
Transceivers, portable	17
Transceivers, VHF	18

Abalon Precision Mfg Corp	
549 Casanova St New York 59 NY	3
AC Electronics Div GMC	
1925 E Kendallworth Pl Milwaukee 1 Wis	8-10
Acme Telephonics Div NEA Service	
1290 W 3 St Cleveland 13 Ohio	17
Actuator Prods Corp	
Main St Box 172 W Concord Mass	1
Adley Electronics Inc	
1 Lefevre Lane New Rochelle NY	3-6-10-12
Advance Industries Inc	
640 Memorial Dr Cambridge 39 Mass	8-12
Aero Electronics Co	
1512 N Wells St Chicago 16 Ill	8
Aerojet General Corp	
Ordnance Eng'g Div Frederick Md	12
Aerona Mfg Corp	
Hilltop & Frederick Rds Baltimore 28 Md	12
Aeronautics Systems Inc	
1234 Airways Glendale Los Angeles Calif	12
Aerophysics Dev Corp Sub Curtiss-Wright	
Corp P O Box 689	
Santa Barbara Calif	8-10-12
Airborne Accessories Corp	
1414 Chestnut Ave Hillside 5 NJ	1-10
Aircon Inc	
334 Main St Windthrop Mass	12
Aircraft Armaments Inc	
Cherry Tree Rd Box 126	
Cockeysville Md	2-6-12
Aircraft Radio Corp	
Routon NJ	8-10-15-17-18
AIRResearch Mfg Co Div Garret Corp	
9851 Sepulveda Blvd	
Los Angeles 15 Calif	1
Airpax Products Co Seminole Div	
City of Plantation Ft Lauderdale Fla	6
Airpax Products Co	
Middle River Baltimore 20 Md	6
Airtone Inc	
1108 W Elizabeth Ave Linden NJ	6
All American Eng'g Co	
2001 Irving Glendale Los Angeles Calif	1
Wilmington 5 Del	13
Allegany Instrument Co	
1091 Wills Mountain Cumberland Md	13
Allis Co Louis	
427 E Stewart St Milwaukee 1 Wis	5
Amelco Inc	
3140 Cole Ave Santa Monica Calif	12
American Electronic Laboratories	
121 N 7 St Philadelphia 6 Pa	2
American Electronics Inc	
635 W Washington Blvd	
Los Angeles 15 Calif	1-12
American Machine & Foundry Co	
Electronics Div 1085 Commonwealth Ave	
Roston 15 Mass	8
American Machine & Foundry Co	
Defense Products Group	
1101 N Royal St	
Alexandria Va	2-6-9-10-12-13-14-15
American Microwave Corp	
11754 Yose St N Hollywood Calif	12
American Printed Circuits Co	
104 Forrest St Metuchen NJ	15
American Rectifier Corp	
95 Lafayette St New York 13 NY	10
American Television & Radio Co	
300 E 4 St St Paul 1 Minn	10
Anchor Specialty Mfg Co	
309 Hollister Rd Teterboro NJ	13-14
Andrew Antenna Corp	
606 Beech St Whitby Ontario Can	2
Andrew California Corp	
941 E Maryland Ave Claremont Calif	2-12
Andrew Corp	
363 E 75 St Chicago 19 Ill	2-12
Antenna & Radome Research Assoc	
1 Bond St Westbury NY	2
Applied Science Corp of Princeton	
P O Box No 44 Princeton NJ	12
Arenberg Ultrasonic Laboratory	
94 Green St Jamaica Plain 30 Mass	14
A R F Products Inc	
P O Box 57 Ranton NM	2-3-8-12
Arma Div American Bosch Arms Corp	
Garden City NY	8
Aymoux Corp	
11924 W Washington Blvd	
Los Angeles 66 Calif	10-12

A R & T Electronics Inc	
1501 E 6th St N Little Rock Ark	12
Arvey Corp Fibre Forming Div	
202 Franklin St Olean NY	9
Associated Missile Products	
Sub American Mch & Fdry	
2709 N Garey Ave Pomona Calif	6-8
Associated Research Inc	
3777 W Belmont Ave Chicago 18 Ill	10
Associated Testing Labs	
109 Clinton Rd Caldwell NJ	13
Audicon Electronics Inc	
216 Lyon St Paterson 4 NJ	10
Automatic Control Co	
995 University Ave St Paul 4 Minn	12
Auto Test Inc	
600 S Michigan Ave Chicago 5 Ill	10
Auto Test Inc	
411 W 8th St Neillville Wis	6
Baird-Atomic Inc	
33 University Rd Cambridge 38 Mass	8-10
Barker & Williamson Inc	
Canal & Beaver Sts Bristol Pa	11-12
Beckman Instruments Inc Data & Control	
Systems Scientific Instrument Div	
325 N Muller Ave Anaheim Calif	6
Bell Aircraft Corp	
P O Box 1 Buffalo 5 NY	12
Bell & Gossett Co/Dualux Div	
8200 Austin Ave Morton Grove Ill	12
Belock Instrument Corp	
111-91 34 Ave College Point 56 NY	6
Bendix Aviation Corp Pacific Div	
11699 Sherman Way N Hollywood Calif	12
Bendix Aviation Corp	
1104 Fisher Bldg Detroit 2 Mich	12-15-16
Bendix Aviation Corp Red Bank Div	
Fatontown NJ	10
Bogoe Electric Mfg Co	
52 Iowa Ave Paterson 3 NJ	10
Bolton Labs Inc	
W Main St Bolton Mass	6
Borg Equip Div George W Borg Corp	
120 S Main St Janesville Wis	8
Boyle Motorcraft Corp	
150 Sullivan St Brooklyn 31 NY	3
Branch Mfg Corp Div General Bronze Corp	
209 Central Ave Newark 3 NJ	2
Brooks & Perkins Inc	
1950 W Fort St Detroit 38 Mich	3-4
Brubaker Electronics Inc	
3652 Eastham Dr Culver City Calif	8
Bruno-New York Industries Corp	
460 W 34 St New York 1 NY	8
Broad Instruments	
3495 Perkins Ave Cleveland 14 Ohio	6-13-14
Bundy Electronics Corp	
171 Fabyan Pl Newark 12 NJ	12
Bunnell & Co J H	
81 Prospect St Brooklyn 1 NY	10
Calif Magnetic Control Corp	
21922 Valerio St N Hollywood Calif	10
Campbell Co Colo	
Abbott St Danbury Conn	10
Canadian Applied Research Ltd	
1500 O'Connor Dr Toronto 16 Can	8-10
Canadian Aviation Electronics Ltd	
6214 Cote de Liesse Rd	
St Laurent Quebec Canada	17-18
Cardinal Instrumentation Corp	
4201 Redwood Ave Los Angeles 66 Calif	12
Carol Electronics Corp	
315 W Stephen St Martinsburg W Va	10
Carter Motor Co	
2711 W George St Chicago 18 Ill	10
Centronix Inc	
34 Glenner St Cocoa Fla	10-12
Centronix Electronics Co	
34 Glenner St Cocoa Fla	12
CG Electronics Corp	
150 Central St NE Albuquerque NM	12
CGS Laboratories Inc	
Routes 7 & 35 Ridgefield Conn	6
Chatham Electronics Div Gera Corp	
W Mt Pleasant Ave Livingston NJ	
Chesapeake Instrument Corp	
Shadyside Md	14
Christie Electric Corp	
3410 W 67 St Los Angeles 43 Calif	10
Cinema-Television Ltd	
Worsley Bridge Rd	
Lower Sydenham London SE 26 England	6
Clegg Labs Div Clegg Inc	
Ridgedale Ave Morristown NJ	10-15-16-17-18
Collins Radio Co	
855 35 St NE Cedar Rapids Iowa	15-18
Columbia Research Labs	
MacDade Blvd & Bullens La	
Woodlyn Pa	13-14
Computing Devices of Canada Ltd	
P O Box 508 Ottawa Ontario Can	8-13
Condenser Products Div	
New Haven Clock & Watch Co	
140 Hamilton St New Haven 4 Conn	10
Conn Telephone & Electric Corp	
70 Irittania St Meriden Conn	8
Consolidated Avionics Corp	
800 Shames Dr Westbury NY	12-14
Consolidated Electrodynamics Corp	
309 N Sierra Madre Villa	
Pasadena Calif	12-13-14
Continental Electronics Mfg Co	
4212 S Buckner Blvd Dallas 27 Texas	10
Control Data Corp	
501 Park Ave Minneapolis 15 Minn	5-12
Corbin Corp	
5419 56th Place Riverdale Md	2-5-11-12
Corrugated Paper Products	
2233 Utica Ave Brooklyn 84 NY	9

Craig Systems Inc	
90 Holten St Danvers Mass	2-3-4-5-8-9
Crescent Eng'g & Research Co	
5440 N Peck Rd El Monte Calif	1
Crown Engineering	
3821 Commercial NE Albuquerque NM	12
Cubic Corp	
5575 Kearny Villa Rd San Diego 11 Calif	10
Cunningham Son & Co James	
33 Litchfield St Rochester 8 NY	1
Curtiss-Wright Corp Electronics Div	
631 Central Ave Carlstadt NJ	10
Custom Scientific Instruments Inc	
541 Devon St Woodside 77 NY	13
Dahlstrom Metallic Door Co	
Buffalo & 2 Sts Jamestown NY	3
Darco Industries Inc Gyro Dynamics Div	
2151 E Rosecrans Ave El Segundo Calif	1
Datron Electronics	
1888 Rosecrans Ave	
Manhattan Beach Calif	12
Daubert Chemical Co	
333 N Michigan Ave Chicago 1 Ill	9
Daven Co	
Route 10 Livingston NJ	6
Davenport Mfg Co	
1713 N Ashland Ave Chicago 22 Ill	10
Defiance Eng'g & Microwave Corp	
Reverly Airport Beverly Mass	2
Designers For Industry	
4241 Fulton Pkwy	
Cleveland 9 Ohio	3-10-15-17-18
Diamond Antenna & Microwave Corp	
7 North Ave Wakefield Mass	2
Digital Equip Corp	
Maynard Mass	10
Dittmore-Freemuth Corp	
2517 E Norwich St Milwaukee 7 Wis	1-2
Dolin Metal Products Inc	
315 Lexington Ave Brooklyn 16 NY	3
D & R Ltd	
402 E Gollierree St Santa Barbara Calif	10
Durable Rubber Products Co	
609 W Lake St Chicago 6 Ill	9
Dynac Inc	
395 Page Mill Rd Palo Alto Calif	12
Dynatronics Electronics Inc	
75-29 Woodhaven Blvd	2-3-4-5-8-11-13-14-15-16-17-18
Forest Hills NY	
Dynatronix Inc	
717 W Amelia Ave Orlando Fla	8-10-12
Dynex Inc	
777 Dunes Dr Pewaukee Wis	1
Eclipse-Pioneer Div	
Bendix Aviation Corp Teterboro NJ	1-2-8
Elec Mfg Co	
137 Herriek Rd New Hyde Park LI NY	1-2
Elicor Inc Div Jacobs Co	
517 W Walnut St Ogelsby Ill	10
Eldico Electronics	
25-01 Barlen Ave	
Long Island City 1 NY	10-15-16-17
Electronic Mechanisms Inc	
Rt 9 Haddam Conn	1
Electrical Communications Inc	
765 Clementina St	
San Francisco 3 Calif	5-12
Electric Post Div General Dynamics	
Eastern Point Rd Grooton Conn	14
Electric Regulator Corp	
Pearl St Norwalk Conn	10
Electric Specialty Co	
211 South St Stamford 1 Conn	10
Electro Impulse Lab Inc	
208 River St Red Bank NJ	6
Electromation Co	
1646 18 St Santa Monica Calif	8
Electro-Mechanical Div General Riveters Inc	
785 Hertel Ave Buffalo 7 NY	1
Electronic Associates Inc	
Long Branch NJ	5-8-10
Electronic Communications Inc	
1501 72 St St Petersburg Fla	1-8-10-11-18
Electronics Eng Co of Calif	
1601 Chestnut St Santa Ana Calif	12
Electronic Measurements Co	
Lewis St & Maple Ave Eatontown NJ	10
Electronic Production & Development	
138 Nevada St El Segundo Calif	10
Electronics Development Co	
2743 Cahuenza Blvd N Hollywood Calif	12
Electronic Specialty Co	
5121 San Fernando Rd	
Los Angeles 39 Calif	2-8
Electro Systems Inc	
1025 Westminster Ave Alhambra Calif	14
Elvac Metal Products Co	
775 39 St Brooklyn 32 NY	2-4
Emerson Electric Mfg Co	
5100 Florissant Ave St Louis 21 Mo	2-12
Engineering Associates	
434 Patterson Rd Dayton 9 Ohio	6-12
Epsco Inc	
588 Commonwealth Ave Boston 15 Mass	6-12
Eric Resistor Corp	
644 W 12 St Erie 6 Pa	6
Fairchild Controls Corp	
6111 E Washington Blvd Los Angeles Calif	1
Fairchild Guided Missiles Div	
Fairchild Engine & Airplane Corp	
Straight Path Wyanandeh LI NY	4-12
Farrand Controls Inc	
4401 Bronx Blvd New York 70 NY	6
Fecker Inc J W	
6592 Hamilton Ave Pittsburgh 6 Pa	6-8
Federal Mfg & Eng'g Corp	
1055 Stewart Ave Garden City NY	1-10
Federal Shockmount Corp	
1060 Washington Ave New York 66 NY	3-4
Felsenthal & Sons Inc G	
3500 N Kedzie Ave Chicago 18 Ill	8

Firestone Guided Missile Div 2525 Firestone Blvd Los Angeles Calif	8	Ind Test Equip Co 55 E 11th St New York 3 NY	6	Maurer Inc J A 37-01 31 St Long Island City 1 NY	8-10
Ford Instrument Co Div Sperry Rand Corp 31-10 Thomson Ave Long Island City 1 NY	8	Industrial TV Inc 369 Lexington Ave Clifton NJ	10	Maxon Corp W L 475 10 Ave New York 18 NY	2-8-10
Foto-Video Labs Inc 25 Amity St Little Falls NJ	6-10	Inertia Switch 527 Lexington Ave New York 17 NY	13	MH Mfg Co Div Textron Inc P O Box 1025 New Haven 11 Conn	14
Frequency Standards Inc P O Box 604 Asbury Park NJ	6	Ineco Co Div Harry Controls Hollis St Groton Mass	14	Measurement Eng'g Ltd 232 John St Arnprior Ontario Can	2-10-11-17
F-R Machine Works Inc Electronic & X-Ray Div 26-12 Borough Pl Woodside 77 NY	6-10	Instrument Corp of Fla P O Box 1226 Bldg 14 Melbourne Fla	12	Mexx Eng'g Inc 200 S Harding St Indianapolis Ind	13
Gaertner Scientific Corp 1250 Wrightwood Ave Chicago 14 Ill	14	Instrument Development Labs Inc 67 Mechanic St Attleboro Mass	12	Microwave Associates Inc Burlington Mass	8
Gabriel Electronics Div Gabriel Co 135 Crescent Rd Needham Heights 94 Mass	2	Insuline Corp of America 186 Grant St Manchester NH	2-5	Microwave Eng'g Labs Inc 943 Industrial Ave Palo Alto Calif	6
Garrett Corp A/R Research Mfg Co Div 9851 Sepulveda Blvd Los Angeles 45 Calif	1-10	International Business Machines Corp 500 Madison Ave New York 23 NY	8-9	Millen Mfg Co James 150 Exchange St Malden 48 Mass	6
Gates Electronics Co 2090 Barnes Ave Bronx 62 NY	10	Int'l Equip Co 1284 Soldiers Field Rd Boston 35 Mass	13	Milli-Switch Corp 1742 Berkeley St Santa Monica Calif	1
Gates Radin Co 123 Hampshire St Quincy Ill	3-4-8-10	Interstate Electronics Corp 207 E Vermont Ave Anaheim Calif	12	Minn-Honeywell Regulator Co Davies Laba Div 10721 Hanna St Holtville Md	6
Geartronics Corp 52 Nashua St Woburn Mass	1	I-T-E Circuit Breaker Co Special Products Div 601 E Erie Ave Philadelphia 24 Pa	2	Minn-Honeywell Regulator Co Ordnance Div 600 2 St N Hopkins Minn	10
General Communication Co 677 Beacon St Boston 15 Mass	6	Jacksonville Metals Plastics Co 575 Dara St Jacksonville Fla	5	Minn-Honeywell Regulator Co Aeronautical Div 2600 Ridgway Ave Minneapolis 13 Minn	1-8
General Controls Co 801 Allen Ave Glendale 1 Calif	1	Jacobs Instrument Co 4718 Bethesda Ave Bethesda 14 Md	8-12	Missileonics Inc P O Box 716 Melbourne Fla	6-8-10-12
General Electric Co Apparatus Sls Div 1 River Rd Schenectady 5 NY	12	Jefferson Electronic Products Corp 322 State St Santa Barbara Calif	10-12-13-14	Model Eng'g & Mfg Inc 50 Frederick St Huntington Ind	15-16-17-18
General Electric Co Communication Products Dept P O Box 1122 Syracuse NY	18	Johnson Aircraft Eng'g Co Geophysical Services Div P O Box 10 Morristown NJ	12	Molded Insulation Co 335 E Price St Philadelphia 44 Pa	3
General Electric Co Heavy Mill Electronic Equip Dept Syracuse NY	8	Kahn & Co 541 Windsor St Hartford 1 Conn	5-18-13-14	Modern Industries Inc 2601 Colorado Ave Santa Monica Calif	10
General Electric Co Light Military Electronic Equip Dept French Rd Utica NY	8-15-17-18	Kauke & Co 1632 Pico Blvd Santa Monica Calif	12	Motorsch Corp 1600 Junction Ave Racine Wis	10
General Electric Co Rectifier Dept Mountain View Rd Lynchburg Va	10	Kay Electric Co 14 Maple Ave Pine Brook NJ	6-14	Multi-Amp Corp 465 Lehigh Ave Union NJ	10
General Precision Lab Inc 21 N Santa Anita Ave Pasadena 8 Calif	8	Kearfott Co Inc 1378 Main Ave Clifton NJ	8	Mycalex Corp of America 125 Clifton Blvd Clifton NJ	12
General Precision Lab Inc 63 Bedford Rd Pleasantville NY	8	Kearfott Co Inc 14844 Oxnard St Van Nuys Calif	2	National Aircraft Corp 3411 Fuller Ave Burbank Calif	10
General Railway Signal Co P O Box 600 Rochester NY	12	Kelsey-Hayes Co 3600 Military Ave Detroit 32 Mich	1-2-3-4	Nevada Air Products Co P O Box 2472 Reno Nev	8-12-15-17-19
General RF Fittings Inc 702 Beacon St Boston 15 Mass	6	Kinevox-Hallen Div Electromotion Co 1646 18 St Santa Monica Calif	8	NJE Corp 345 Carnegie Ave Kenilworth NJ	10
Genisco Inc 2233 Federal Ave Los Angeles 64 Calif	13-14	Kieter Instrument Corp 15 Webster St N Tonawanda NY	13-14	Norden-Ketay Corp Commerce Rd Stamford Conn	8
Generator Corp P O Drawer 472 Manassas Va	10	Kleinschmidt Labs Inc County Line Rd Deerfield Ill	12	Northwestern Eng'g Inc 25 S Bedford St Manchester NH	6
Geotechnical Corp 3712 Haggard Dr Dallas 9 Texas	12-13-14	Koch & Sons H Hey 101 Corte Madera Calif	4	Nuclear-Electronics Corp 2632 W Cumberland St Philadelphia 32 Pa	5-10-17
Gerrardi Co A J 1950 Hawthorne Ave Melrose Park Ill	9	Kollman Case Corp P O Box 180 Ft Wain 1 Ind	3	NYT Electronics Inc 2974 N Ontario St Burbank Calif	10
Gerst & Co Paul E 4868 N Clark St Chicago 40 Ill	10	Kollmorzen Optical Corp 347 King St Northampton Mass	10	Olympic Plastics Co 3471 S Lacienege Blvd Los Angeles 16 Calif	3
G & M Equipment Co 7315 Varma Ave N Hollywood Calif	6	Kusa Industries Inc Tecny & Lewis Sts Philadelphia 24 Pa	2-3-8-10	Opad Electric Co 69 Murray St New York 7 NY	10
Hamilton Standard Electronics Dept Main St Broad Brook Conn	1	Laboratory For Electronics Inc 75 Pitts St Boston 14 Mass	6-8	Ordnance Eng'g Corp P O Box 460 Frederick Md	12
Goodrich Sponge Products B F Div B F Goodrich Co Canal St Shelton Conn	9	Land-Air Inc 744 W Wilson Ave Chicago 31 Ill	14	Otin Elevator Co Electronic Div 35 Ryerson St Brooklyn 5 NY	5-8-10-12-18
Gordon Enterprises 5362 N Cahuena Blvd N Hollywood Calif	5-4-8	Langevin Mfg Corp 47-47 Austell Pl Long Island City 1 NY	10	Packard Bell Electronics Corp 12333 W Olympic Blvd Los Angeles 64 Calif	8-10-12-15-17
Gould Corp Jerome F 200 Stewart Ave Brooklyn 37 NY	8	La Pointe Industries Inc 155 W Main St Rockville Conn	2-12	Parsons Co Ralph M Electronics Div 151 S Do Lacey Ave Pasadena Calif	12
Granger Associates 966 Commercial St Palo Alto Calif	2-6-10	Lawn Electronics Co E Freehold Rd Freehold NJ	10	Patterson Moss Div Universal Winding Co 90-26 Van Wyck Expressway Jamaica 18 NY	1-10-13-14
Gray Mfg Co 16 Arbor St Hartford 1 Conn	1	Lavoie Labs Inc Matwan-Freehold Rd Morgantown NJ	3-6	Paul & Heckman 1801 W Courtland St Philadelphia 40 Pa	3-4
Green Rectifier Co 1-10 30 St Fairlawn NJ	10	Learn Inc 3171 S Bundy Dr Santa Monica Calif	1-2-8-15-18	Permutex Products Co 4101 San Fernando Rd Glendale 4 Calif	10
Greer Hydraulics Inc NY Int'l Airport Jamaica 30 NY	1	Learn Inc 110 Ionia Ave N W Grand Rapids 2 Mich	1	Poebel Electronics Inc 13 Garden St New Rochelle N Y	10
Gruen Industries Inc Electronic Products Div 9701 Reading Rd Cincinnati 15 Ohio	8-10	Lea Inc 625 N Y Ave N W Washington 1 DC	10	Peters-Dalton Inc 1590 Ryan Rd Detroit 12 Mich	4
Gulton Industries Inc 212 Durham Ave Metuchen NJ	10-12-13-14	Leland Electric Co Aircraft Products Plant 740 E National Rd Vandalia Ohio	10	Petrol Corp Peter A 127 Water St New York 5 NY	2-12-15-17
Hallamore Electronics Co 8352 Brookhurst Ave Anaheim Calif	5-10-12	Librascope Inc 808 Western Ave Glendale Calif	5-8-12	Philbrick Researches Inc George A 230 Congress St Boston 10 Mass	10
Haller Raymond & Brown Circleville Rd State College Pa	2-8-10-12-13-15-16-17-18	Linar Inc 4101 San Fernando Rd Glendale 4 Calif	10	Phileo Corp Tonga & C Sts Philadelphia 24 Pa	1-2-3-4-5-6-8
Hall-Scott Inc 2450 N Ontario St Burbank Calif	10-12	Liton Industries of Calif 336 N Foothill Rd Beverly Hills Calif	5-8-10-11-12-15-16-17-18-19-21	Phileo Corp Galt & Industrial Div 4700 Wissahickon Ave Philadelphia 41 Pa	10-12-15-17-18
Hamilton Watch Co Allied Products Div Columbia Ave Lancaster Pa	8	Loral Electronics Corp 825 Bronx River Ave New York 72 NY	6-8	Pioneer Gen-E-Motor Corp 5841 W Dickens Ave Chicago 39 Ill	10
Hazeltine Electronics Div Hazeltine Corp 59-25 Little Neck Pkwy Little Neck 62 NY	8-10-16-17-18	Lyndon Aircraft Inc 140 Clifford St Newark 5 NJ	1	Piqua Machine & Mfg Co 441 S College St Piqua Ohio	1
Heinz Mueller Eng'g Co 1996 N Cicero Ave Chicago 39 Ill	10	Kleinschmidt Labs Inc County Line Rd Deerfield Ill	12	Plastic Capacitors Inc 2620 N Clybourn Ave Chicago 14 Ill	10
Hewson Co 443 Broad St Newark 2 NJ	10	Mack Electronics Div Inc 1000 S 2 St Plainfield NJ	10	Plastofilm Inc 916 W Union Ave Wheaton Ill	9
Hoffman Electronics Corp 3761 S Hill St Los Angeles 7 Calif	1-6-8-10-15-17-18	Magnasyn Mfg Co 5546 Satsuma Ave N Hollywood Calif	13	Polarad Electronics Corp 43-20 31 St Long Island City NY	6-8-12
Hogan Labs Inc 155 Perry St New York 14 NY	12	Magnavox Corp 2121 Bueter Rd Ft Wayne 4 Ind	8-15-17-18	Prentiss Supplies Inc 1005 Olive St Highland Ill	10
Homeite Div Textron Inc 67 Riverdale Ave Port Chester NY	10	Magnavox Corp 2181 Bueter Rd Ft Wayne Ind	8-10-12-15-16-17-18	Premax Products Div Chisholm-Ryder Co College & Highland Aves Niagara Falls NY	2
Hoover Electronics Co 112 W Timonium Rd Timonium Md	12	Magnetic Amplifiers Inc 632 Tinton Ave New York 55 NY	8-10	Prea Industrial Equipment Ltd Box 302 Putt Corners Rd N New Paltz NY	9
Hughes Aircraft Co Florence & Teale Sts Culver City Calif	8	Magnetic Controls Co 6403 Cambridge St Minneapolis 16 Minn	10	Prodell Inc 307 Bergen Ave Kearny NJ	2
Humphrey Inc 2805 Canon St San Diego Calif	1	Magnetic Research Corp 3160 W El Segundo Blvd Hawthorne Calif	10-12	Product Eng'g Labs Co Inc 555 Central Ave Orange NJ	3-4-9
Industrial Radio Corp 428 N Parkside Ave Chicago 44 Ill	17	Macon Co Inc 21 N 3rd St Minneapolis 1 Minn	10-12	Production Research Corp Thornwood NY	2-6-15-16-17-18
Industrial Research Labs Div Aeronautics Corp Hilltop & Frederick Rds Baltimore Md	6-10-12	Maryland Electronic Mfg Corp 5009 Calvert Rd College Park Md	2-8-12	PSC Applied Research Ltd 1500 O'Connor Dr Toronto 16 Canada	8

Pye Telecommunications Ltd Newmarket Rd Cambridge England	8-12-16-17-18	
Radiation Eng'g Labs Main St Maynard Mass	2	
Radintion Inc P O Box 37 Melbourne Fla	6-12	
Radio City Products Co Centre & Glendale Sta Canton Pa	6-8-15-17-18	
Radio Corp of America West Coast Electronic Prods Dept 11819 W Olympic Blvd Los Angeles 64 Calif	9	
Radionics Inc P O Box 146 Cokesville Md	10	
Ram Meter Inc 1100 Hilton Rd Ferndale 20 Mich	10	
Rams-Woodbridge Corp Electronic Instrumentation Div P O Box 8405 Denver 10 Colo	8-10-12-17-18	
Rauland-Horg Corp 433 W Addison St Chicago 18 Ill	10-15-18	
Raytheon Mfg Co Maynard Lab Thompson St Maynard Mass	8	
Raytheon Mfg Co 100 River St Waltham 54 Mass	8	
Rea Co J B 1723 Cloverfield Blvd Santa Monica Calif	1-8-10-12	
Reed & Reese Inc 717 N Lake Ave Pasadena 8 Calif	1	
Reeves Instrument Corp Roosevelt Field Garden City NY	2	
Reflectone Corp Boston Post Rd Stamford Conn	11	
Ref Mfg Corp 393 Jericho Turnpike Mineola NY	2	
Resubile Aviation Corp Farmingdale LI NY	10	
Rheem Mfg Co Electronics Div 7177 Industry Ave Downey Calif	12	
Rieh Electronics Inc 212 NW Ave Miami 36 Fla	12	
Robinson Aviation Inc Peterboro NJ	8-4	
Rotating Components Inc 267 Green St Brooklyn 22 NY	1	
Rue Products 1625 Venice Blvd Venice Calif	10-16-17	
Saginaw Steering Gear Div GMC 3900 Holland Saginaw Mich	1	
Sanders Associates 95 Canal St Nashua NH	8	
Saratoga Industries Congress & Hallston Aves Saratoga Springs NY	10	
Schafer Mfg Corp 1501 Alpine Ave Rosamoyne Ohio	10	
Schildahl Co G T Northfield Minn	0	
Scientific-Atlanta Inc 2162 Piedmont Rd NE Atlanta 9 Ga	2	
Seaboard Electric Products Corp 417 Canal St New York 13 NY	5-6-7-8	
Seismograph Service Corp 6200 E 41 St Tulsa 1 Okla	4	
Servo Corp of America 2020 Jericho Turnpike New Hyde Park NY	8	
Servomechanisms Inc 1200 Prospect Ave Westbury NY	1	
Servonics Inc 822 N Henry St Alexandria Va	8	
ServoTek Products Co 1086 Goffie Rd Hawthorne NJ	1	
Shand & Jura Co 2600 8th St Berkeley 10 Calif	12	
Sheppard Co R H 101 Philadelphia St Hanover Pa	10	
Sierra Electronic Corp 3885 Bohannon Dr Menlo Park Calif	6-12	
Skatronic Electronics & TV Corp 180 Varick St New York 14 NY	8-10-11-12	
Southwestern Industrial Electronics Co 2831 Post Oak Rd Houston 19 Texas	11-14	
Sperry Gyroscopic Electronics Div Great Neck NY	6	
Sperry Gyroscopic Co Marine Div Roosevelt Field Mineola NY	2-8	
Sphere Co 25 Amity St Little Falls NJ	8	
Spiform Inc 63 Mechanic St Attleboro Mass	2	
Spisay Inc James S 4008 Hampden Lane Washington 14 DC	10-12-15	
Springer Aircraft Radio Co Earl W Route 11 Box 330 Indianapolis Ind	15-18	
Standard Electronics Div Radio Eng'g Labs 30 & Borden Sts Long Island City NY	10	
Stanley Aviation Corp 2501 Dallas St Denver Colo	10	
Statham Labs Inc 12401 W Olympic Blvd Los Angeles 64 Calif	10-13-14	
Statistical Instr Co 300 Haven Ave New York 33 NY	10-12-14	
Stavid Eng'g Inc U S Route 22 Plainfield NJ	2-8-12-15	
Stevenson Bro 110 Race St Philadelphia 6 Pa	9	
Stoddard Aircraft Radio Co 8844 Santa Monica Blvd Hollywood 38 Calif	3-6-12	
Stromberg-Carlson Div General Dynamics Corp 100 Carlson Rd Rochester 3 NY	8-11-15	
Strong Electric Corp 87 City Park Ave Toledo 1 Ohio	10	
Sun Electric Corp Harlem & Avondale Ave Chicago 31 Ill	10	
Super Electronics Corp 53 Worth St New York 13 NY	15-11	
Superior Electric Co 83 Laurel St Bristol Conn	10	
Sylvania Electric Products Co Electric Systems Div 100 First Ave Waltham 54 Mass	2-8-15	
Taffet Radio & TV Co 27-05 Brooklyn-Queens Expressway W Woodhull 37 NY	2-8-8	
Taller & Cooper 75 Front St Brooklyn 1 NY	12	
Tare Electronics Inc 48 Urban Ave Westbury LI NY	10	
Taylor Instruments Companies 95 Ames St Rochester 1 NY	7	
Technical Appliance Corp 1 Taco St Sherburne NY	2	
Technical Material Corp 700 Fenimore Rd Mamaroneck NY	2-3-6-12	
Technical Oil Tool Corp 1057 N La Brea Los Angeles 38 Calif	1-2-10	
Telechrome Mfg Corp 28 Ranick Dr Amityville LI NY	11-17	
Telectro Industries Corp 35-18 37 St Long Island City 1 NY	2-5-6-7-8-10-12-15-16-17-18	
Telephonics Corp Park Ave Huntington LI NY	13-17-18	
Telerad Mfg Corp Route 68 Flemington NJ	6-10-12	
Telerad Mfg Corp 1440 Broadway New York 18 NY	6-10-12	
Televia Corp 1415 Golf Ltd Des Plaines Ill	11	
Tellor Inc N Murray Ridge Rd Elyria Ohio	6-10	
Temco Aircraft Corp P O Box 6191 Dallas 2 Texas	2-8-12	
Texas Instruments Inc 6000 Lemmon Ave Dallas 9 Texas	8-10-18	
Texid Products Co 81 Rumford Ave Waltham 54 Mass	9	
Thompson Products Inc Electronics Div 2196 Clarkwood Rd Cleveland 3 Ohio	1	
Topp Industries Inc 8007 Wilshire Blvd Beverly Hills Calif	10-13-15	
Torpwire Electronics Inc 1090 Morris Ave Union NJ	10	
Trans Electronics Inc 7349 Canoga Ave Canoga Park Calif	10	
Transitron Inc 186 Granite St Manchester NH	6	
TV Utilities Corp 112-23 Colonial Ave Corona 68 NY	10	
UAC Electronics Div Universal Transistor Prods Corp 50 Bond St Westbury LI NY	10	
Ultradyn Eng'g Labs P O Box 3304 Albuquerque New Mex	10-12-13	
United Aircraft Products Inc 1118 Rolander Ave Dayton 8 Ohio	1-5	
United Control Equip 4540 Union Hwy Pl Seattle 5 Wash	1	
United Electrodynamics 1200 S Marengo Ave Pasadena Calif	12	
United Mineral & Chemical Corp 16 Hudson St New York 13 NY	3-9	
Universal Transistor Products Corp 36 Sylvester St Westbury LI NY	10	
Univox Corp 102 Warren St New York 7 NY	2	
U S Testing Co 1415 Park Ave Hoboken NJ	2	
Vapor Heating Corp 80 E Jackson Blvd Chicago 4 Ill	1	
Varo Mfg Co 2201 Walnut St Garland Texas	6-10-12-14	
Vickers Inc Electric Products Div 1887 Locust St St Louis 3 Mo	10	
Virginia Electronics Co River Rd B & O RR Washington 16 DC	8-10-17	
Wallace Inc 35 S St Clair St Dayton 2 Ohio	6	
Waldorf Instrument Co Div F C Huyek & Sons Park Ave Huntington Station NY	1-8-10-12-13	
Wallson Associates Ltd 863 Frelinghuysen Ave Newark 12 NJ	10	
Warren Corp J C 21 Hanse Ave Freeport NY	17	
Warren Mfg Co Newtown Rd Littleton Mass	12	
Wash Eng'g Co 292 Burrell Ave Van Nuys Calif	6	
Westbury Electronics Inc 300 Shames Dr Westbury NY	10	
West Coast Electronics Co 9261 W 3 St Beverly Hills Calif	10-12	
West Coast Research Corp 2371 1/2 Westwood Blvd Los Angeles 64 Calif	1-5-8-10-12-13	
Western Gear Corp Electro Products Div 132 W Colorado St Pasadena 1 Calif	1-10	
Westinghouse Electric Co Div Air Arm Div P O Box 746 Friendship Int'l A P Baltimore Md	1	
Westinghouse Electric Corp P O Box 868 Pittsburgh 80 Pa	8-10	
White Aircraft Corp Palmer Mass	8-4	
White Dental Mfg Co SS Industrial Div 10 E 40 St New York 16 NY	1	
Wiancko Eng'g Co 255 Halstead St Pasadena Calif	12	

Wickes Eng'g & Construction Co 12 St & Ferry Ave Camden 4 NJ	5-10
Wileox Electric Co 1400 Chestnut St Kansas City 27 Mo	8
Wincharger Corp E 7 & Division St Sioux City 2 Iowa	10
Winkler Labs 5225 N 20 St Phoenix Ariz	14
Zero Mfg Co 1127 Chestnut St Burbank Calif	3-4
Z & W Mfg Corp 30240 Lakeland Blvd Wickliffe Ohio	2

56—MILITARY SYSTEMS ENGINEERING

Alarm systems	1
Communications	2
Counter measures	3
Data recording systems	4
Data reduction systems	5
Fire control	6
Infra Red	13
Radar	14
Telemetering	7

GUIDANCE CONTROL SYSTEMS

Command control, navigation	8
Inertial navigation	9
Infra-red, navigation	10
Radar beam navigation	11
Stellar navigation	12

AC Electronics Div GMC 1925 E Kenilworth Pl Milwaukee 1 Wis	9-12
Adler Electronics Inc 1 Lefevre La New Rochelle NY	2-7-13
Admiral Corp 3800 W Cortland St Chicago 47 Ill	1-2-3-5-6-7-11-13-14
Advance Industries Inc 640 Memorial Dr Cambridge 39 Mass	4-5-6-8-13
Aero Electronics Co 1512 N Wells St Chicago 10 Ill	1-3-6-7-13
Aerojet General Corp Ordnance Eng'g Div Frederick Md	2-7
Aerona Mfg Corp Hilltop & Frederick Rds Baltimore 28 Md	4-5-7-14
Aerona Mfg Corp Middletown Ohio	1-5-7-14
Aeronutronic Systems Inc 1234 Airway Glendale Los Angeles Calif	2-3-4-5-6-7-8-9-10-13-14
Aerophysics Dev Corp Sub Curtiss-Wright Corp P O Box 689 Santa Barbara Calif	10-11-12-13-14
Aircrom Inc 354 Main St Winthrop Mass	7
Aircraft Armaments Inc Cherry Tree Rd Box 126 Cokesville Md	3-4-7-13
AirResearch Mfg Co Div Garrett Corp 9951 Sepulveda Blvd Los Angeles 45 Calif	5
Airtronics Inc 5522 Darsey Lane Bethesda Md	4-5
Airtron Inc 1108 W Elizabeth Ave Linden NJ	13
Alden Electronic & Impulse Recording Equip Co P O Box 125 Westboro Mass	4
American District Telegraph Co 155 6 Ave New York 13 NY	1
American Electronic Laboratories 121 N 7 St Philadelphia 6 Pa	1-2-3
American Electronics Inc 655 W Washington Blvd Los Angeles 15 Calif	4-5-7
American Machine & Foundry Co Gen Eng Labs 11 Bruce Pl Greenwich Conn	7-13
American Machine & Foundry Co Electronics Div 1085 Commonwealth Ave Boston 15 Mass	2-3-5-6-8-11
American Machine & Foundry Co Defense Products Group 1101 N Royal St Alexandria Va	1-2-3-4-5-6-7-8-9-10-11-12
American Microwave Corp 11754 Vose St N Hollywood Calif	2-7
American Printed Circuits Co 104 Forrest St Metuchen NJ	8-9
American Research Products Box 185 Sorrento Fla	1
Analogic Controls Inc 39 Roselle St Mineola NY	8-9-10-11-12
Andromeda Inc 3742 Howard Ave Kensington Md	4-5
Anco Div Genl Aniline & Film Corp Charles St Hinghamton NY	4
Applied Research Inc 76 S Bayley Ave Port Washington NY	3-7
Applied Science Corp of Princeton P O Box No 44 Princeton NJ	7
A R F Products Inc P O Box 57 Ranton NM	2-7-11-13
Arma Div American Bosch Arms Corp Garden City NY	6-9-10

Arnoux Corp 11924 W Washington Blvd Los Angeles 66 Calif	1-4-7	Control Data Corp 501 Park Ave Minneapolis 15 Minn	3-4-5-7-8-9	Federal Mfg & Eng'g Corp 1955 Stewart Ave Garden City NY	11-12
Associated Missile Products Sub Ameresh Mch & Fdry 2709 N Garey Ave Pomona Calif	4-5	Convair-San Diego P O Box 1950 San Diego 12 Calif	10-11-13-14	Federal Telecommunication Labs Div IT&T 500 Washington Ave Nutley NJ	3
Audicon Electronics Inc 216 Lyon St Paterson 4 NJ	2	Corbin Corp 5419 56th Place Riverdale Md	2-3-6-7-8-9-10-11-13-14	Feedback Controls Inc 899 Main St Waltham 34 Mass	6-8-9-11
Audio Equipment Co 805 Middle Neck Rd Great Neck NY	2	Comer Canada Ltd 301 Windsor St Halifax Nova Scotia Canada	1-2-5-11-13	Feller Eng'g & Mfg Co 8026 N Monticello Ave Skokie Ill	1-2
Auerbach Electronics Corp 108 N Essex Ave Narberth Penna	8-11	Craig Systems Inc 90 Holten St Danvers Mass	1-2-6-8-9-10-11-12	Firestone Guided Missile Div 2323 Firestone Blvd Los Angeles Calif	2
Automatic Control Co 995 University Ave St Paul 4 Minn	1-7	Cubic Corp 5575 Kearny Villa Rd San Diego 11 Calif	4-5	Fischer & Porter Co 478 Warmister Rd Hathor Pa	4-5
Avco Mfg Corp Crosley Div 1329 Arlington St Cincinnati 25 Ohio	13	Cunningham Son & Co James 35 Litchfield St Rochester 8 NY	4-5	Flight Research Inc P O Box 1-F Richmond 1 Va	4
Avion Div ACP Industries Inc 11 Park Pl Paramus NJ	3-10-14	Dale Products Inc P O Box 135 Columbus Nebr	7	Ford Instrument Co Div Sperry Rand Corp 31-19 Thomson Ave Long Island City 1 NY	6-7-8-9-13-14
Babeok Radio Eng'g Inc 7942 Woodley Ave Van Nuys Calif	8	Darco Industries Inc Gyro Dynamics Div 2151 E Rosecrans Ave El Segundo Calif	9	Fox Co Thomas T 95 Summit St Newark NJ	7
Baird-Atomic Inc 33 University Rd Cambridge 38 Mass	4-10-14	Dates Div G M Giannini & Co 1307 S Myrtle Ave Monrovia Calif	4	F-R Machine Works Inc Electronic & X-Ray Div 26-12 Borough Pl Woodside 77 NY	2
Barker & Williamson Canal & Beaver Sta Bristol Pa	2-3-7	Datron Electronics 1836 Rosecrans Ave Manhattan Beach Calif	7	Gabriel Electronics Div Gabriel Co 135 Crescent Rd Needham Heights 34 Mass	8-11-13
Bausch & Lomb Optical Co 628 St Paul St Rochester 2 NY	14	Daven Co Route 10 Livingston NJ	2-4-7-8	Gaertner Scientific Corp 1250 Wrightwood Ave Chicago 14 Ill	5
Beckman Instruments Inc Data & Control Systems Scientific Instrument Div 325 N Muller Ave Anaheim Calif	4-5	Daystrom Instrument Div Daystrom Inc Archbald Pa	3-4-5-6-8	Gal-Tronics Corp 607 Washington St Reading Penna	1-2
Bell Aircraft Corp P O Box Buffalo 5 NY	2-3-7-8-9-10-13-14	Daystrom Instrument Div P O Box 258 Troy Ohio	2-3-13	Gates Radio Co 123 Hampshire St Quincy Ill	2-3-8
Bell & Gossett Co/Duxley Div 8200 Austin Ave Morton Grove Ill	7	Daystrom Inc P O Box 258 Troy Ohio	2-3-13	General Communication Co 677 Beacon St Boston 15 Mass	13
Bendix Aviation Corp Pacific Div 11600 Sherman Way N Hollywood Calif	11	Designers For Industry 4241 Fulton Pkwy Cleveland 9 Ohio	2-3-4-5-8-9-11-13	General Controls Co 801 Allen Ave Glendale 1 Calif	3-6-8
Bendix Aviation Corp 1194 Fisher Bldg Detroit 2 Mich	7-8-9-10-11-12-13	Devol Research Co Brookside Dr Greenwich Conn	4	General Electric Co Computer Dept 1195 N Central Ave Phoenix Ariz	4-5
Benson-Lehner Corp 11930 W Olympic Blvd Los Angeles 64 Calif	4-5	Digitronics Corp Albertson Ave Albertson LI NY	4-5	General Electric Co Apparatus Sls Div 1 River Rd Schenectady 5 NY	7
Berndt-Bach Inc Auricon Div 6900 Romaine Ave Hollywood 38 Calif	4	Douglas Aircraft Co 3000 Ocean Park Blvd Santa Monica Calif	2	General Electric Co Communication Products Dept P O Box 1122 Syracuse NY	1-2-7
Biosonic Electronic Corp Box 266 Sussex NJ	2	Du Mont Labs A B 730 Bloomfield Ave Clifton NJ	1-2-3-4-5-6-7	General Electric Co Heavy Mil Electronic Equip Dept Syracuse NY	2-3-6-7-8-11-13-14
Boque Electric Mfg Co 52 Iowa Ave Paterson 3 NJ	6-8	Dunn Eng'g Associates 225 O'Brien Hwy Cambridge 39 Mass	2-3-6-8-9-11-12-13	General Electric Co Light Military Electronic Equip Dept French Rd Utica NY	2-3-4-5-6-11
Bomac Labs Inc Salem Rd Beverly Mass	13	Dynac Inc 395 Page Mill Rd Palo Alto Calif	4-7	General Electric Co General Kinetics Inc 555 23 St S Arlington 2 Va	3-6-9-10
M Ten Bosch Inc 80 Wheeler Ave Pleasantville NY	9	Dynamic Electronics Inc 73-29 Woodhaves Blvd Forest Hills NY	2-3-4-5-6-8-11-13-14	General Mills Inc Mechanical Div 1820 Central Ave Minneapolis 13 Minn	3-6-7-8-9-10-11-12-13-14
Briggs Associates 10 Dekalb St Norristown Pa	1-4-5-7	Dynatron Inc 717 W Amelia Ave Orlando Fla	4-5-7	General Precision Lab Inc 63 Bedford Rd Pleasantville NY	4-9-10-11
Brooks & Perkins Inc 1950 W Fort St Detroit 38 Mich	6-13	Eclipse-Pioneer Div Bendix Aviation Corp Teterboro NJ	8-9-11	General Railway Signal Co P O Box 600 Rochester NY	3
Browning Labs Inc 750 Main St Winchester Mass	4	Edison Industries Thomas A Instrument Div McGraw-Edison Co 5 Lakeside Ave W Orange NJ	1	Geotechnical Corp 3712 Haggard Dr Dallas 9 Texas	4-5-7
Brush Instruments 3405 Perkins Ave Cleveland 14 Ohio	4	Eldico Electronics 29-01 Barden Ave Long Island City 1 NY	2	Gerber Scientific Instrument Co 162 State St Hartford 3 Conn	5
Burroughs Corp 6071 2 Ave Detroit 32 Mich	2-6	Electrical Communications Inc 765 Clementina St San Francisco 3 Calif	1-2-7	Giannini & Co G M 918 E Green St Pasadena Calif	4-5
Cable Electric Products 214 Daboll St Providence 7 RI	6	Electro Instrument Inc Aero Ct San Diego Calif	4-5	Hamilton Standard Electronics Dept Main St Broad Brook Conn	6-8-9-10-11-12-13-14
Calif Technical Industries Div Textron Inc 1421 Old County Rd Belmont 10 Calif	6-10-11-13-14	Electromation Co 1646 18 St Santa Monica Calif	4	Gordon Enterprises 5362 N Calaveras Blvd N Hollywood Calif	3-4-5-6
Cameraflex Corp 1947 Broadway New York City 23 NY	4	Electronic Associates Inc Long Branch NJ	4-5-6-8-9-11-13	Graflex Inc 154 Clarissa St Rochester 8 NY	6
Canadian Applied Research Ltd 1500 Orono Dr Toronto 16 Can	13	Electronic Communications Inc 1501 72 St St Petersburg Fla	2-3-4-13-14	Granger Associates 956 Commercial St Palo Alto Calif	2-3-7-13
Canadian Aviation Electronics Ltd 6214 Cote de Liesse Rd St Laurent Quebec Canada	6	Electronic Control Systems 2231 Harrington Ave Los Angeles 44 Calif	2-3-4-5-6-13-14	Gray Mfg Co 16 Aushor St Hartford 1 Conn	2-6-7-13
Canoga Corp 3955 Sepulveda Blvd Van Nuys Calif	6-11-13	Electronics Eng Co of Calif 1601 E Chestnut St Santa Ana Calif	4-5-7	Gruen Industries Inc/Electronic Products Div 9701 Reading Rd Cincinnati 15 Ohio	2-3-6-9-13
Cardinal Instrumentation Corp 4201 Redwood Ave Los Angeles 66 Calif	3-7	Electronics Corp of America 1 Memorial Dr Cambridge 42 Mass	1-6-10-14	Gulton Industries Inc 212 Durham Ave Metuchen NJ	2-4-5-7-10-14
Centronic Inc 34 Oleander St Cocoa Fla	2-4-5-7	Electronic Specialty Co 5121 San Fernando Rd Los Angeles 29 Calif	1-2-3-4-6-11	Hallamson Electronics Co 8352 Brookhurst Ave Anaheim Calif	1-2-3-4-5-6-7-8
Century Electronics Co 34 Oleander St Cocoa Fla	7	Electro Sound Corp 115 Hallee St Boston 15 Mass	2	Haller Raymond & Brown Circleville Rd State College Pa	2-3-4-5-6-7-8-9-10-11-13-14
CG Electronics Corp 1509 Central St Albuquerque New Mex	5-7	Electro Systems Inc 1035 Westminster Ave Alhambra Calif	8	Hall-Scott Inc 2950 N Ontario St Burbank Calif	7
CGS Laboratories Inc Routes 7 & 35 Ridgefield Conn	2-8	Edison Draft Gage Co 348 W Monroe St Chicago 6 Ill	1	Hammarlund Mfg Co 460 W 31 St New York 1 NY	1-2
Cinema-Television Ltd Worsley Bridge Rd Lower Sydenham London SE 26 England	3	Elm Labs 10 Washington Ave Hastings-on-Hudson NY	2	Hanson-Gerrill-Breim 85 Hazel St Glen Cove NY	4
Clegg Labs Div Clegg Inc Ridgedale Ave Morristown NJ	2-3	Emerson Electric Mfg Co 8100 Florissant Ave St Louis 21 Mo	3-6-7-9-11-13-14	Harvey-Wells Electronics Inc North St Southbridge Mass	6
Coleman I. A. F. Co 6040 W Jefferson Blvd Los Angeles 16 Calif	4-5	Epaco Inc 588 Commonwealth Ave Boston 15 Mass	4-5-7	Hazeltine Electronics Div/Hazeltine Corp 59-25 Little Neck Pkwy Little Neck 62 NY	2-6-8-11-13
Collins Radio Co 855 35 St NE Cedar Rapids Iowa	2-8	Ereo Radio Labs Inc 687 Stewart Ave Garden City NY	2	Hewson Co 443 Broad St Newark 2 NJ	1
Colorado Research Corp 4697 E Evans Ave Denver 22 Colo	2-4-5	Espace Mfg Co Congress & Ballston Ave Saratoga Springs NY	1-2	Hoffman Electronics Corp 3761 S Hill St Los Angeles 7 Calif	2-3-6-8-10-11-13-14
Computer Control Co 92 Broad St Weylesley 57 Mass	5	Fairchild Guided Missiles Div Fairchild Engine & Airplane Corp Straight Path Wyandanch LI NY	4-3	Hogan Labs Inc 155 Perry St New York 14 NY	2-3-4-7
Computing Devices of Canada Ltd P O Box 508 Ottawa Ontario Can	2-4-5-7	Farnsworth Electronics Co Div IT&T Ft Wayne Ind	1-2-3-4-5-6-7-8-10-11-13-14	Hoover Electronics Co 112 W Timonium Rd Timonium MD	3-6-7
Conn Telephone & Electric Corp 70 Britannia St Meriden Conn	2	Farrand Controls Inc 4401 Bronx Blvd New York 7 NY	3-6-8-9-10-12	Hughes Aircraft Co Florence & Toala Sta Culver City Calif	2-6
Consolidated Avionics Corp 800 Shames Dr Westbury NY	4-5-7	Fecker Inc J W 6592 Hamilton Ave Pittsburgh 6 Pa	4-5-6-9-12-14	Industrial Research Labs Div Aeronca Mfg Corp Hilltop & Fredericks Rds Baltimore Md	1-4-5-7-10
Consolidated Electrodynamics Corp 300 N Sierra Madre Villa Pasadena Calif	4-5-7			Inertial Switch 527 Lexington Ave New York 17 NY	9
Consolidated Productions Inc Broward Int'l Airport Ft Lauderdale Fla	2-6			International Corp of Fla P O Box 1226 Bldg 14 Melbourne Fla	2-5-7-13
Continental Electronics Mfg Co 4212 S Buckner Blvd Dallas 27 Texas	2			International Business Machines Corp 590 Madison Ave New York 23 NY	4

Instrument Development Labs Inc 67 Mechanic St Attleboro Mass	7-9	Missileonics Inc P O Box 736 Melbourne Fla	2-5-7-13	Seaboard Electric Products Corp 417 Canal St New York 13 NY	1-6-8
Interstate Electronics Corp 707 E Vermont Ave Anaheim Calif	1-2-3-4-5-7-13	Missouri Research Labs Inc 2109 Locust St St Louis 3 Mo	1-5-13	Servo Corp of America 2020 Jericho Turnpike New Hyde Park NY	6-8-10-14
Ireo Corp 16 Hudson St New York 13 NY	14	Mosler Research Products Inc 3 Keefer St Danbury Conn	1	Servomechanisms Inc 12500 Aviation Blvd Hawthorne Calif	4-6-8-10-11-14
Jacksonville Metals Plastics Co 575 Dura St Jacksonville Fla	1	Mycalex Corp of America 125 Clifton Blvd Clifton NJ	7	Servonics Inc 822 N Henry St Alexandria Va	6-8-9-10-11-12
Jacobs Instrument Co 4718 Bethesda Ave Bethesda 14 Md	3-4-5-6-7-8-9- 10-11-12-13-14	National Scientific Labs Inc 2010 Massachusetts Ave N W Washington 6 DC	2-3	Siera Electronic Corp 3885 Bohannon Dr Menlo Park Calif	2-7
Jefferson Electronic Products Corp 322 State St Santa Barbara Calif	4-5-7-13	Nevada Air Products Co P O Box 2472 Reno Nev	1-2-3-6-7-9-10	Skiatron Electronics & TV Corp 180 Varick St New York 14 NY	1-2-3-4-5-6-7-8-10-11-13-14
Johnson Aircraft Eng'g Co M J Morristown Airport Box 10 Morristown NJ	7	Non-Linear Systems Inc Del Mar Airport Del Mar Calif	4-5	Solartron Electronic Group Ltd Queens Rd Thames Ditton Surrey England	5-13
Jones & Wetzlar Eng'g Corp 11780 W Pico Blvd Los Angeles 64 Calif	8	Norden-Ketay Corp Commerce Rd Stamford Conn	4-5-6-8-9-10-13-14	Southwestern Industrial Electronics Co 2831 Post Oak Rd Houston 19 Texas	4-5
Kauke & Co 1632 Pico Blvd Santa Monica Calif	4-7	North Electric Co 553 S Market St Galion Ohio	2	Specialty Eng'g & Electronics Co 79 Clifton Pl Brooklyn 38 NY	6
Kearfott Co Inc 1175 Main Ave Clifton NJ	8-9	Northern Radio Co 143 W 22 St New York 11 NY	2	Sperry Gyroscopic Co Sunnyvale Dev Center 294 Commercial St Sunnyvale Calif	3-6-8-9-11-13
Kinesco-Hallen Div Electromation Co 1646 15 St Santa Monica Calif	4	Nuclear-Electronics Corp 2532 W Cumberland Pa Philadelphia 32 Pa	1-2-13	Sperry Gyroscopic Co Air Arm Div Great Neck NY	2-3-6-9-11-12-13-14
Kintel 5725 Kearny Villa Rd San Diego 12 Calif	5	Nuclear Products-Ereo Div ACP Industries Inc Riverdale Md	3	Sperry Gyroscopic Co Surface Armament Div Great Neck NY	3-6-9-11-13
Kirkland Co H R 8 King St Morristown 4 NJ	1	Olympic Radio & TV 34-01 38 Ave Long Island City 1 NY	2-3-4-13	Sperry Gyroscopic Co Marine Div Roosevelt Field Mineola NY	4-6-8-9-11-13
Klein-Schmidt Labs Inc County Line Rd Deerfield Ill	2-7	Optron Corp 3526 State St Santa Barbara Calif	8-10-12	Spivey Inc James S 4908 Hampden Lane Washington 14 DC	7
Kollman Instrument Corp Sub Standard Coil Products 80-08 45 Ave Elmhurst 73 NY	12	Ordinance Eng'g Corp P O Box 460 Frederick Md	7	Stainless Steel 3 St North Wales Pa	7
15 Webster St N Tonawanda NY	9	Otis Elevator Co Electronic Div 35 Hyerson St Brooklyn 5 NY	2-3-4-5-6-7-8-9-11	Standard Electronics Div Radio Eng'g Labs 30 & Borden Sts Long Island City NY	2
Kuss Industries Inc Tacony & Lewis Sts Philadelphia 24 Pa	2	Packard Bell Electronics Corp 12833 W Olympic Blvd Los Angeles 64 Calif	10-11-12-13-14	Stanley Aviation Corp 2561 Dallas St Denver Colo	1
Laboratory for Electronics Inc 75 Pitta St Boston 14 Mass	8	Par Products Corp 602 Colorado Ave Santa Monica Calif	4	Statham Labs Inc 12401 W Olympic Blvd Los Angeles 64 Calif	7
La Pointe Industries Inc 155 W Main St Rockville Conn	9-11-12	Parsons Co Ralph M Electronics Div 151 S De Lacey Ave Pasadena Calif	4-5-7	Statistical Instr Co 330 Haven Ave New York 33 NY	2-3-7-13
Las-Lab Inc Route 32 Sykesville Md	14	Patterson Moos Div Universal Winding Co 90-28 Van Wyck Expressway Jamaica 18 NY	1-2-3-6-7-10-14	Stavid Eng'g Inc U S Route 22 Plainfield NJ	3-6-7-13
Lavote Labs Inc Matawan-Freehold Rd Morganville NJ	2-8-13	Perkin-Elmer Corp Main Ave Norwalk Conn	3-6-10-14	Stewart Warner Electronics Div 1300 N Kostner Ave Chicago 51 Ill	2-3-10-11-13-14
Learn Inc 3171 S Bundy Dr Santa Monica Calif	2-3-7-8	Phila Scientific Glass Co Box 46C Paletown Rd Quakertown Pa	1	Stratford Corp 44 W 28 St New York 1 NY	1
Learn Inc 110 Ionia Ave N W Grand Rapids 2 Mich	2-6-8-9	Phileo Corp Tioga & C Sts Philadelphia 24 Pa	2-3-4-5-7-9-10-11-13-14	Stromberg-Carlson Div General Dynamics Corp 100 Carlson Rd Rochester 3 NY	2-4
Lel Inc 389 Oak St Copiague NY	7	Phileo Corp Govt & Industrial Div 4700 Wissahickon Ave Philadelphia 44 Pa	2-4-6-7-8-9- 10-11-12-13-14	Suffolk Products Corp Woodbine & Scudder Ave Northport NY	13
Lenkurt Electric Co 1195 County Rd San Carlos Calif	2	Phoenics Precision Instrument Co 3803 N 5 St Philadelphia 40 Pa	10	Super Electronics Corp 53 North St New York 13 NY	2-15
Libroscope Inc 808 Western Ave Glendale Calif	3-4-5-6-7-8-10-12	Photobell Co 43 Vesey St New York 7 NY	1-3-6-14	Sylvania Electric Products Co Electric Systems Div 100 First Ave Waltham 54 Mass	1-2-3-4-5-6-8- 10-11-13-14
Liodly & Co 248 Herricks Rd Mineola NY	10-14	Pico Products Co Whitney St Sherborn Mass	1	Syston Corp 2055 Concord Blvd Concord Calif	1-4-5-7
Link-Radio Corp 110 Jericho Turnpike New Hyde Park LI NY	2	Polarad Electronics Corp 43-20 34 St Long Island City NY	3-7	Tang Designs Inc 55 Willoughby St Brooklyn 1 NY	7
Litton-Industries of Calif 396 N Foothill Rd Beverly Hills Calif	2-3-4-5-6-7- 8-9-10-11-12	Potter Instrument Co Sunnyside Blvd Plainview NY	4-5	Tallier & Cooper 75 Front St Brooklyn 1 NY	1-4-5-7
Litton Industries of Md Inc 4910 Calvert Rd College Park Md	4-5-6-8	Press Wireless Labs Inc 25 Prospect Pl W Newton 65 Mass	1	Tare Electronics Inc 48 Urban Ave Westbury LI NY	2
Loral Electronics Corp 825 Bronx River Ave New York 72 NY	2-9-13	Prodelin Inc 307 Beegen Ave Kearny NJ	2	Taylor Instruments Companies 95 Ames St Rochester 1 NY	5
Klein-Schmidt Labs Inc County Line Rd Deerfield Ill	2-7	Production Research Corp Thornwood NY	7-14	Technical Material Corp 700 Fenimore Rd Mamaroneck NY	1-2-7-8
Mach Electronics Div Inc 1600 S 2 St Plainfield NJ	2-4-5-6-8-13	Protectowire Co Washington St Hanover Mass	1	Technical Oil Tool Corp 1057 N La Brea Los Angeles 38 Calif	3-6-7-8-9-11-13
Magnavox Corp 2131 Bueter Rd Ft Wayne 4 Ind	2-13	Pye Telecommunications Ltd Newmarket Rd Cambridge England	2-7	Technifac Labs Inc Thomaston-Waterbury RD Thomaston Conn 3	1
Magnavox Co 2131 Bueter Rd Ft Wayne Ind	2-4-6-13	Q O S Corp Bronx Blvd at 216 St New York 67 NY	10-14	Telechrome Mfg Corp 28 Ranick Dr Amityville LI NY	7
Magnetic Amplifiers Inc 632 Tinton Ave New York 55 NY	6-8	Radiation Inc P O Box 37 Melbourne Fla	2-3-4-5-7-10-11-12	Telectro Industries Corp 35-18 37 St Long Island City 1 NY	1-2-3-4-6-7-8-11-13
Magnetic Instrument Co 546 Commerce St Thornwood NY	4	Radio City Products Co Centre & Glendale Sts Easton Pa	1-2-3-6-13	Tele-Dynamics Inc 51st & Parkside Ave Philadelphia 4 Pa	7
Magnetic Research Corp 3160 W Kl Segundo Blvd Hawthorne Calif	7	Radio Eng'g Labs 29-01 Borden Ave Long Island City 1 NY	2	Telemeter Magnetics Inc 2245 Pontius Ave Los Angeles 84 Calif	5
Maico Co Inc 21 N 2nd St Minneapolis 1 Minn	2-4-7	Radiolincs Inc P O Box 186 Coekeysville Md	6	Telephonics Corp Park Ave Huntington LI NY	2-3-14
Manson Laboratories Inc 207 Greenwich Ave Stamford Conn	2	Rahn Instruments Inc 257 Lafayette St New York 12 NY	7	Teledad Mfg Corp Route 59 Flemington NJ	7-13
Martin Co Glenn L Baltimore 3 Md	2	Ramo-Woolbridge Corp Electronic Instrumentation Div P O Box 8405 Denver 10 Colo	4-5-7	Teledad Mfg Corp 1440 Broadway New York 18 NY	11-13
Maryland Electronic Mfg Corp 5009 Calvert Rd College Park Md	2-3-7	Rauland-Borg Corp 3555 W Addison St Chicago 18 Ill	2	Television Corp 1415 Golf Rd Des Plaines Ill	13
Mast Development Co Inc 2212 E 12th St Davenport Iowa	4-5-6	Raytheon Mfg Co Maynard Lab Thompson St Maynard Mass	3-13	Teneco Aircraft Corp P O Box 6191 Dallas 2 Texas	3-4-7-8-9-10-11-14
Maurer Inc J A 37-01 31 St Long Island City 1 NY	4-14	Raytheon Mfg Co 109 River St Waltham 54 Mass	13	Texas Instruments Inc 6000 Lemmon Ave Dallas 9 Texas	7-9-10-11-13-14
Maxson Corp W L 475 10 Ave New York 18 NY	3-6-8-11-13	Rea Co J H 1725 Cloverfield Blvd Santa Monica Calif	2-3-4-5-6-7-8-10-14	Textron Corp Box 4252 Austin 51 Texas	3-11
Mechanical Eng'g Ltd 232 John St Arnprior Ontario Can	1-2	Reeder & Co Charles M 171 173 Victor Ave Detroit Mich	10-14	Thompson Products Inc Electronics Div 2196 Clarkwood Rd Cleveland 3 Ohio	3-14
Michigan Electronics Inc 854 N Rockwell St Chicago 22 Ill	1-2	Reeves Instrument Corp Roosevelt Field Garden City NY	6-7-9-11-13	Top Industries Inc 8907 Wilshire Blvd Beverly Hills Calif	1-2-6
Microwave Development Labs 92 Broad St Hahson Park 57 Mass	11-13	Redstone Corp Boston Post Rd Stamford Conn	3	TV Specialty Co 350 W 31 St New York 1 NY	4
Microwave Eng'g Labs Inc 943 Industrial Ave Palo Alto Calif	3-11-13-14	Republic Aviation Corp Farmingdale LI NY	10-14	TV Utilities Corp 112-23 Colonial Ave Corona 68 NY	2
Milco Electronic Corp 7601 N W 37 Ave Miami 47 Fla	4-5-6	Resdel Eng'g Corp 350 S Fair Oaks Ave Pasadena Calif	2-7-13	Ultradyn Eng'g Labs P O Box 3208 Albuquerque New Mex	7
Minn-Honeywell Regulator Co Davies Labs Div 10721 Hanna St Belleville Md	4-5	Rheem Mfg Co Electronics Div 2777 Industry Ave Downey Calif	2-3-7	United Electric Controls Co 85 School St Watertown 72 Mass	4
Minn-Honeywell Regulator Co 1400 Soldiers Field Rd Boston 35 Mass	6-9	Rich Electronics Inc 212 NW 8 Ave Miami 36 Fla	1-2-4-7	United Electrodynamics 1200 S Marengo Ave Pasadena Calif	4-7
Minn-Honeywell Regulator Co Ordinance Div 609 2 St Hopkins Minn	2-6-14	Rue Products 1628 Venice Blvd Venice Calif	2	Vapor Heating Corp 80 E Jackson Blvd Chicago 4 Ill	1
Minn-Honeywell Regulator Co Aeronautical Div 2600 Ridgway Ave Minneapolis 13 Minn	6-8-9-10-14	Sanders Associates 95 Canal St Napa NH	3-6-13		
Miskelco Infra-Red Co E 73 & Grand Ave Cleveland 4 Ohio	14	Scatter-Communications Inc 4923 St Elmo Ave Bethesda 14 Md	2		

Varo Mfg Co
2201 Walnut St Garland Texas 2-7

Vectron Inc
1061 Farnham Rd Waltham 54 Mass 3-6-13

Vickers Inc Electric Products Div
1887 Locust St St Louis 3 Mo 6

Virginia Electronics Co
River Rd & H&O RR Washington 16 DC 2

Voron & Co George
835 N 19 St Philadelphia 30 Pa 1-2

Waldorf Instrument Co Div F C Huyck & Sons
Park Ave 3-4-5-6-7-8-9

Huntington Station NY 10-11-12-13-14

Warren Corp J C
21 Hanse Ave Freeport NY 2

Warwick Mfg Corp
3300 N Lehigh Ave Chicago 31 Ill 4-5

West Coast Electronics Co
9261 W 3 St Beverly Hills Calif 7

West Coast Research Corp
23711 Westwood Blvd
Los Angeles 64 Calif 1-3-4-5-6-7-8-9-10-11-12

Western Electro Acoustic Lab Inc
11789 San Vicente Blvd
Los Angeles 49 Calif 2

Westinghouse Electric Co Div Air Arm Div
P O Box 746 Friendship Intl AP
Baltimore MD 3-4-5-6-8-10-11-12-13-14

Westinghouse Electric Corp
P O Box 860
Pittsburgh 30 Pa 1-2-3-4-6-10-11-13-14

Wiancko Eng'g Co
255 Halstead St Pasadena Calif 4-7

Wickes Eng'g & Construction Co
12 St & Ferry Ave Camden 4 NJ 2

Wind Turbine Co
E Market St & PRR W West Chester Pa 2

57—MISSILES

Frequency controls 1

Frequency regulators 2

Fuses, electronic 3

Ground check-out equipment 4

Ground heading equipment 5

Guidance equipment 6

Gyros 7

Power supplies 8

Seals 9

Telemetering 10

Transponders 11

AC Electronics Div GMC
1925 E Kenilworth Pl
Milwaukee 1 Wis 4-6-7

ACF Industries Nuclear Prods-Ereo Div
48 Lafayette St Riverdale Md 4-5

Acme Electric Corp
Water St Cuba NY 8

Acromag Inc
22519 Telegraph Rd Detroit 41 Mich 6

Adler Electronics Inc
1 Lefevre Lane New Rochelle NY 1-2-4-8

Admiral Corp
3800 W Cortland St Chicago 47 Ill 3-4

Advanced Products
59 Broadway North Haven Conn 2

Advance Industries Inc
640 Memorial Dr Cambridge 39 Mass 4-6-10

Aero Electronics Co
1512 N Wells St Chicago 10 Ill 3

Aeroflex Labs
34-06 Skillman Ave
Long Island City 1 NY 7

Aeroflex General Corp
Ordnance Eng'g Div Frederick Md 10

Aeroflex
709
Hilltop & Frederick Rds
Baltimore 28 Md 4-5-10

Aeronca Mfg Corp
Middletown Ohio 4-5-8-10

Aeronutronic Systems Inc
1234 Airway Glendale Los Angeles Calif 6-10

Aerophysic Dev Corp Sub Curtis-Wright
Corp P O Box 689
Santa Barbara Calif 1-2-3-4-5-6-7-8-9-10-11

Ainslie Corp
312 Quincy Ave Quincy 69 Mass 6

Airborne Accessories Corp
1414 Chestnut Ave Hillsdale 5 NJ 8

Aircom Inc
354 Main St Winthrop Mass 10

Aircraft Armaments Inc
Cherry Tree Rd Box 126
Cockeysville Md 4-5-10

AiResearch Mfg Co Div Garrett Corp
9851 Sepulveda Blvd
Los Angeles 45 Calif 5-6-8

Airmax Products Co Seminole Div
City of Plantation
Ft Lauderdale Fla 1-2

Airtron Inc
1108 W Elizabeth Ave Linden NJ 6

Allegany Instrument Co
1091 Wills Mountain Cumberland Md 4

Amelio Inc
2040 Colo Ave Santa Monica Calif 4-5-10

American Gyro Corp
3030 Nebraska Ave Santa Monica Calif 6

American Machine & Foundry Co
Gen Eng Labs 11 Bruce Pl
Greenwich Conn 4-5-10

American Measurement & Control Inc
240 Calvert St Waltham 54 Mass 6-5

American Microwave Corp
11754 Vose St N Hollywood Calif 10

American Printed Circuits Co
104 Forrest St Metuchen NJ 5-6-10-11

American Rectifier Corp
95 Lafayette St New York 13 NY 4-8

American Research & Mfg Corp
820 Halpine Ave Rockville Md 4-5-6-11

American Television & Radio Co
300 E 4 St St Paul 1 Minn 8

American Time Products Inc
580 5 Ave New York 36 NY 1-2-4

Analogic Controls Inc
39 Roselle St Mineola NY 3-4

Andrew California Corp
941 E Maryland Ave Claremont Calif 10

Andrew Corp
363 E 75 St Chicago 19 Ill 10

Anton Electronic Labs
1226 Flushing Ave Brooklyn 37 NY 9

Applied Research Inc
76 S Bayles Ave Port Washington NY 1

Applied Science Corp of Princeton
P O Box Nn 41 Princeton NJ 10

A R F Products Inc
P O Box 57 Ranton NM 10

Arma Div American Bosch Arma Corp
Garden City NY 6-7

Arnoux Corp
11924 W Washington Blvd
Los Angeles 66 Calif 8-10

A R & T Electronics Inc
1501 E 6th St N Little Rock Ark 3-10

Associated Research Inc
3777 W Belmont Ave Chicago 18 Ill 9

Atlas Precision Products Co
3801 Castor Ave Philadelphia 24 Pa 4

Auerbach Electronics Corp
109 N Essex Ave Narbeth Penna 10

Automatic Switch Co
Hanover Rd Florham Park NJ 5

Avco Mfg Corp Crosley Div
1328 Arlington St Cincinnati 25 Ohio 3-10

Avion Div ACF Industries Inc
11 Park Pl Paramus NJ 6-11

Axler Associates Inc
102-42 43 Ave New York 68 NY 8

Babeck Radio Eng'g Inc
7942 Woodley Ave Van Nuys Calif 4-6

Haird-Atomic Inc
33 University Rd Cambridge 38 Mass 6

Baldwin-Lima-Hamilton Corp
Electronics & Instrumentation Div
42 Fourth Ave Waltham 54 Mass 4-5

Barker & Williamson Inc
Canal & Heaver Sts Bristol Pa 10

Barrett Electronics Corp
630 Dundee Rd Northbrook Ill 6

Beckman Instruments Inc Data & Control
Systems Scientific Instrument Div
324 N Miller Ave Anaheim Calif 4

Bel Fuse Inc
311 Mountain Rd Union City NJ 2

Bell Aircraft Corp
P O Box 1 Buffalo 5 NY 4-5-6-7-8-10

Bendix Aviation Corp Pacific Div
11600 Sherman Way
N Hollywood Calif 6-10-11

Bendix Aviation Corp Bendix Radio Div
Baltimore 4 Md 6

Bendix Aviation Corp Red Bank Div
Rt 35 Eatontown NJ 1-2-8

Bendix Aviation Corp
1104 Fisher Bldg
Detroit 2 Mich 4-6-7-8-10

Bernco Engineering Corp
2320 S Tibba Ave Indianapolis 41 Ind 4

H J Electronics Bura-Warner Corp
3300 Newport Ave Santa Ana Calif 4

Bogue Electric Mfg Co
52 Iowa Ave Paterson 3 NJ 1-2-4-5-8

Bone Eng'g Corp
701 N Broadway Glendale 4 Calif 4-5-8

Boonton Radio Corp
Intervale Rd Boonton NJ 4

Bosch Inc M Ten
80 Wheeler Ave Pleasantville NY 7

Briggs Associates
10 Dekalb St Norristown Pa 6-10

Brooks & Perkins
1950 W Ford St Detroit Mich 5

Hulova Watch Co Electronics Div
48-01 61 St Woodside 77 NY 1-2

Burroughs Corp
6071 2 Ave Detroit 32 Mich 8

Cable Electric Products
234 Daboll St Providence 7 RI 3-8

Calif Magnetic Control Corp
11922 Valerio St N Hollywood Calif 6

Calif Technical Industries Div Textron Inc
1421 Old County Rd Belmont 10 Calif 4

Canoga Corp
5955 Sepulveda Blvd Van Nuys Calif 11

Cardinal Instrumentation Corp
421 Redwood Ave Los Angeles 66 Calif 10

Centronix Inc
34 Oleander St Cocoa Fla 4-10

CG Electronics Corp
1500 Central St Albuquerque New Mex 10

Chatham Electronics Div Gera Corp
W Mt Pleasant Ave Livingston NJ 8

Chrie Electric Corp
3410 W 57 St Los Angeles 48 Calif 4-8

Communication Accessories Co
U S 50 Hwy Lees Summit Mo 2-6-8

Computer Eng'g Associates Inc
350 N Halstead St Pasadena Calif 8

Condenser Products Div
New Haven Club & Watch Co
140 Hamilton St New Haven 4 Conn 8

Consolidated Avionics Corp
800 Shames Dr Westbury NY 1-2-4-10

Consolidated Diesel Electric Corp
880 Canal St Stamford Conn 4-5-8

Consolidated Electrodynamics Corp
300 N Sierra Madre Villa
Pasadena Calif 4-10

Consolidated Productions Inc
Broward Intl Airport
Ft Lauderdale Fla 4

Control Data Corp
501 Park Ave Minneapolis 15 Minn 6-7-10

Convair-San Diego
P O Box 1950 San Diego 12 Calif 4-6-11

Cook Co Frank R
368 Santa Fe Dr Denver 23 Colo 8

Corbin Corp
5419 56th Place Riverdale Md 6

Cosser Canada Ltd
301 Windsor St
Halifax Nova Scotia Canada 11

Craig Systems Inc
Dartmouth Mass 4-7

Crescent Eng'g & Research Co
5440 N Peck Rd
El Monte Calif 1-4-5-6-8-10

Curtiss-Wright Corp Electronics Div
631 Central Ave Carlstadt NJ 4

Dale Products Inc
P O Box 136 Columbus Nebr 10

Dallona Labs
5086 Santa Monica Blvd
Los Angeles 29 Calif 1

Darco Industries Inc Gyro Dynamics Div
2151 E Rosecrans Ave El Segundo Calif 7

Datran Electronics
1836 Rosecrans Ave
Mantion Beach Calif 4-10

Daven Co
Route 10 Livingston NJ 6-8-11

Davenport Mfg Co
1713 N Ashland Ave Chicago 22 Ill 8

Daystrom Pacific Corp
5320 Lincoln Blvd Los Angeles Calif 7

Designers For Industry
4241 Fulton Pkwy
Cleveland 9 Ohio 1-2-4-5-6-8-10-11

Devol Research Co
Brookside Dr Greenwich Conn 7

Dit-Men Inc Electronics Div
511 Broadway Kansas City Mo 4

Douglas Aircraft Co
3000 Ocean Park Blvd Santa Monica Calif 5

Dressen-Barnes Corp
250 N Vinedo Ave Pasadena Calif 8

DuMont Labs A B
760 Bloomfield Ave
Clifton NJ 1-2-4-5-6

Dunlap Electronics
764 9 St Des Moines 14 Iowa 1

Dunn Eng'g Associates
225 O'Brien Hwy
Cambridge 39 Mass 6-11

Dynamic Electronics Inc
73-29 Woodhaven Blvd
Forest Hills NY 1-5-8

Dynamics Research Associates Div
Universal Match Corp P O Box 5841
Ferguson 21 Mo 1-2-8

Dynatron Inc
717 W Amelia Ave Orlando Fla 6-8-10

Dynex Inc
777 Dynes Dr Pewaukee Wis 4

Eclipse-Pioneer Div
Bendix Aviation Corp Teterboro NJ 6-7

Edison Industries Thomas A Instrument Div
McGraw-Edison Co 5 Lakeside Ave
W Orange NJ 6

Elior Inc Div Jacobs Co
517 W Walnut St Opelisy Ill 8

Electrical Communications Inc
765 Clementina St San Francisco 3 Calif 10

Electric Boat Div General Dynamics
Eastern Point Rd Groton Conn 5

Electric Regulator Corp
Pearl St Norwalk Conn 1-2-8

Electromation Co
1646 19 St Santa Monica Calif 6

Electronic Assembly Co
5 Prescott St Roxbury 19 Mass 8

Electronic Associates Inc
Long Branch NJ 4-6-8

Electronic Communications Inc
1501 72 St St Petersburg Fla 3-4

Electronix Eng Co of Calif
1601 E Chestnut St Santa Ana Calif 4-5

Electronic Measurements Co
Lewis St & Maple Ave Eatontown NJ 8

Electronic Production & Development
138 Nevada St El Segundo Calif 1-3

Electronic Research Associates
67 Factory Pl Cedar Grove NJ 2-8

Electronics Development Co
3745 Cabuena Blvd N Hollywood Calif 10

Electronic Specialty Co
5121 San Fernando Rd
Los Angeles 39 Calif 1-2-3-4-6-8

Electro Systems Inc
1035 Westminster Ave Alhambra Calif 4-5

Emerson Electric Mfg Co
8100 Florissant Ave St Louis 21 Mo 3-4-6-10

Emerson Plastics Corp
Sawbury Ave & Butler Pl Bronx 61 NY 9

Engineered Magnetics
Div Gulton Industries Inc
18030 Cerise Ave Hawthorne Calif 8

Engia Equipment Co
431 S Dearborn St Chicago 5 Ill 4

Epsco Inc
588 Commonwealth Ave Boston 15 Mass 4-10

Erco Radio Labs Inc 637 Stewart Ave Garden City NY	10	Holt Instrument Labs Div Holt Harkwood Co Inc Orem, Wis	4	Minnesota Rubber & Gasket Co 3630 Wooddale Ave St Louis Park Minneapolis 16 Minn	9
Fairchild Controls Corp 8111 E Washington Blvd Los Angeles Calif	7	Hoover Electronics Co Instrumentation Div 1122 C San Mateo St Albuquerque N Mex	8	Minn-Honeywell Regulator Co Davies Labs Div 10721 Hanna St Beltsville Md	4
Fairchild Controls Corp Componenta Div 225 Park Ave Hicksville LI NY	7	Hoover Electronics Co 112 W Timonium Rd Timonium Md	4-10-11	Minn-Honeywell Boston Div 1400 Soldiers Field Rd Boston 35 Mass	6-7
Fairchild Guided Missiles Div Fairchild Engine & Airplane Corp Straight Path Wyandanch LI NY	4-5-6-10	Houston Fearless Div Color Corp of America 11901 W Olympic Blvd Los Angeles 84 Calif	5	Minn-Honeywell Regulator Co Ordnance Div 600 2 St N Hopkins Minn	4-4-8
Fairchild Metallurgical Corp 2200 Sheridan Rd N Chicago Ill	8	Hughes Aircraft Co Florence & Teale Sta Culver City Calif	4	Minn-Honeywell Regulator Co Aeronautical Div 2800 Ridgway Ave Minneapolis 13 Minn	4-6-7
Farnsworth Electronics Co Div IT&T 3702 E Pontiac St Ft Wayne Ind	1-4-6-8-10	Humphrey Inc 2805 Canon St San Diego Calif	7	Missileconics Inc P O Box 716 Melbourne Fla	6-10
Ficker Inc J W 6012 Hamilton Ave Pittsburgh 6 Pa	6	Industrial Research Labs Div Aeronaut Mfg Corp Hilton & Fredericks Rds Baltimore Md	1-4-8-10	Model Eng'g & Mfg Inc 50 Frederick St Huntington Ind	11
Federal Mfg & Engrg Corp 1055 Stewart Ave Garden City NY	4-6-8	Inertia Switch 827 Lexington Ave New York 17 NY	8	Modern Industries Inc 2601 Colorado Ave Santa Monica Calif	2-8
Federal Telecommunication Labs Div IT&T 500 Washington Ave Nutley NJ	6	Instrument Development Labs Inc 60 Mechanic St Attleboro Mass	10	Mutiresearch Co 1800 Junction Ave Racine Wis	5
Feedback Controls Inc 890 Main St Waltham 64 Mass	4-6	Interstate Electronics Corp 70 E Vermont Ave Anaheim Calif	4-10-11	Mycalex Corp of America 125 Clifton Blvd Clifton NJ	10
Fied Instrument Co Div Sperry Rand Corp 31-10 Thomson Ave Long Island City 1 NY	1-2-4-6-7-8-10	Jackson Electronics Inc 23 Woodcrest Rd West Chester Pa	1-3-8	National Aircraft Corp 3411 Tulare Ave Burbank Calif	4-5-8
Fox Co Thomas T 95 Summit St Newark NJ	10	Jacobs Instrument Co 4718 Bethesda Ave Bethesda 14 Md	6-10	Nema-Clarke Inc 919 Jettup-Hair Dr Silver Spring Md	10
Frenchtown Porcelain Co Frenchtown NJ	9	Jefferson Electronic Products Corp 422 State St Santa Barbara Calif	4-6-8-10	Naval Air Products Co P O Box 2472 Reno Nev	4-5-6-10-11
Frequency Standards Inc P O Box 504 Asbury Park NJ	1	Johnson Aircraft Eng'g Co Geophysical Services Div P O Box 10 Morristown NJ	10	Newton Co 55 Elm St Manchester Conn	6
Garlock Packing Co 102 Main St Palmyra NY	9	Kahn & Co 511 Windsor St Hartford 1 Conn	4-8	NYE Corp 345 Carnegie Ave Kenilworth NJ	8
Garrett Corp Aircsearch Mfg Co Div 1851 Sepulveda Blvd Toluca Hills 45 Calif	4-5-6-7-8	Kaiser Aircraft & Electronics Corp Toledo Electronic Div P O Box 487 Toledo Ohio	4-6-8-11	Non-Linear Systems Inc Del Mar Airport Del Mar Calif	4
Gates Radio Co 123 Hampshire St Quincy Ill	6	Kauls & Co 1632 Pico Blvd Santa Monica Calif	10	Norden-Ketay Corp Commerce Rd Stamford Conn	4-6-7
General Controls Co 801 Allen Ave Glendale 1 Calif	5-6	Keuffert Co Inc 1378 Main Ave Clifton NJ	4-6-7	Norman Laboratories Ernst Williams Bay Wis	1-2
General Electric Co Computer Dept 1303 S. Gentry Ave Phoenix Ariz	4	Keith-Hayes Co 3600 Military Ave Detroit 32 Mich	4-6-7	Northwestern Eng'g Inc 25 S Bedford St Manchester NH	1-8
General Electric Co Aquarius Sls Div 1 River Rd Schenectady 5 NY	2-7	Keystone Products Co 994-6 23rd St Union City NJ	8	Norwood Controls Unit Detroit Controls Div American Standard 934 Washington St Norwood Mass	4
General Electric Co Heavy Mil Electronic Equip Dept Syracuse NY	4-5-6-10	Kinevox-Hallen Div Electromation Co 1648 18 St Santa Monica Calif	6	Nuclear Products-Erco Div ACF Industries Inc Riverside Md	4-5
General Electric Co 3198 Chestnut St Phila 4 Penna	1-2-3-4-5-6-7-8-9-10-11	Kinney Mfg Div Vacuum Equip Div NY Air Braks Co 3529 Washington St Boston 30 Mass	8	NYT Electronics Inc 2979 N Ontario St Burbank Calif	8
General Electric Co Missile Production Sec Lakeside Ave Burlington Vt	4-5	Koss Industries Inc Taony & Lewis Sts Philadelphia 24 Pa	8-8	Ohio Carbon Co 12508 Berea Rd Cleveland 11 Ohio	9
General Electric Co Rectifier Dept Maurinin View Rd Lynchburg Va	8	Lanuvin Mfg Corp 1737 Austell Pl Long Island City 1 NY	2-8	Opal Electric Co 89 Murray St New York 7 NY	8
General Electric Co Industry Control Dept P O Box 2488 Roanoke Va	5-8	La Pointe Industries Inc 155 W Main St Rockville Conn	4-6-7-9	Opto Eng'g Co 3524 W Washington Blvd Los Angeles 18 Calif	4-5
General Electric Co Specialty Control Dept P O Box 813 Waynesboro Va	5-8	Larson Electronic Glass P O Box 371 2426 El Camino Real Redwood City Calif	9	Ordnance Eng'g Corp P O Box 460 Frederick Md	10
General Mills Inc Mechanical Div 1620 Central Ave Minneapolis 15 Minn	4-5-10	Laxton Labs Inc Laxton-Frehold Rd Morganville NJ	7	Orion Elevator Co Electronic Div 35 Ryeonon St Brooklyn 5 NY	4-5-6-8-10
General Precision Lab Inc 21 N Santa Anita Ave Pasadena 8 Calif	6	Lawn Electronics Co E Freshold Rd Freshold NJ	5	Pacific Scientific Co P O Box 22019 Los Angeles 22 Calif	6-7
General Precision Lab Inc 63 Bedford Rd Pleasantville NY	6	Lench Corp-Inet Div 18135 Susana Rd Compton Calif	8	Pacific Technical Co 2047 Sawtelle Blvd Los Angeles 25 Calif	4
Genotechnical Corp 3712 Hugger Dr Dallas 9 Texas	10	Lea Inc 8134 S Bundy Dr Santa Monica Calif	4-6-7-8	Packard Bell Electronics Corp 12338 W Olympic Blvd Los Angeles 4 Calif	4-5-6-8-10-11
Geost & Co Paul E 1868 N Clark St Chicago 40 Ill	1-2-8	Lea Inc 110 Junia Ave N W Grand Rapids 2 Mich	6-7	Parsons Co Ralph M Electronics Div 11 S De Lacey Ave Pasadena Calif	4-10-11
Giannini & Co G M 918 E Green St Pasadena Calif	1-7	Lee Electric & Mfg Co 2500 Clearwater St Los Angeles Calif	8	Patterson Moss Div Universal Winding Co 80-28 Van Wyck Expressway Jamaica 14 NY	4
Gilmore Industries Inc 5713 Euclid Ave Cleveland 3 Ohio	4	L. E. F. Inc 825 N Y Ave N W Washington 1 DC	8	Perkin-Elmer Corp Main Ave Norwalk Conn	8
Hamilton Standard Electronics Dept Main St Broad Brook Conn	1-2-4-5-6	Leland Electric Co Div AMF 1501 Webster St Dayton 1 Ohio	8	Perkin Eng'g Corp 345 Kansas St El Segundo Calif	4-8
Global Industries Inc 1784 Stanley Ave Dayton 4 Ohio	7	Leland Electric Co Aircraft Products Plant 740 E National Rd Vandalia Ohio	8	Permotux Products Inc 4101 San Fernando Rd Glendale 4 Calif	7
Goodrich Aviation Products Div B F Goodrich Co 500 S Main St Akron 18 Ohio	6	Liberscope Inc 808 Western Ave Glendale Calif	8	Peschel Electronics Inc 13 Garden St New Rochelle NY	8
Goodyshev Aircraft Corp 1210 Maxwell Rd Akron 15 Ohio	4-5-6	Links Aviation Inc Binghamton NY	4	Phila Scientific Glass Co Box 46C Palteton Rd Quakertown Pa	9
Gordon Enterprises 6362 N Cahuenka Blvd N Hollywood Calif	4	Litlin Inc 1101 San Fernando Rd Glendale 4 Calif	8	Philamon Labs Inc 80 Hopper St Westbury LI NY	1
Graflex Inc 154 Clarissa St Rochester 8 NY	6	Liton Industries of Calif 386 N Foothill Rd Beverly Hills Calif	4-5-6-7-8-10-11	Phileo Corp Thoma & C Sta Philadelphia 24 Pa	2-4-6
Graphite Metallizing Corp 1002 Nepperhan Ave Yonkers NY	6	Maek Electronics Div Inc 1009 S 2 St Plainfield NJ	4-8	Phileo Corp Govt & Industrial Div 4700 Wissahickon Ave Philadelphia 44 Pa	3-6-10
Gray Research & Development Co Hilliard St Manchester Conn	6	Magnetic Amplifiers Inc 528 Mineola Ave Carle Place NY	10	Photographic Analysis Inc 13273 Ventura Blvd N Hollywood Calif	6-10
Greenleaf Mfg Co Div Mandrel Industries 781 Maplewood Industrial Ct St Louis 17 Mo	7	Magnetic Circuit Elements Inc 822 Park Pl Montrose Calif	1-2-4-8-10	Plastic Capacitors Inc 2620 N Clybourn Ave Chicago 14 Ill	8
Green Resistor Co 4740 30 St Fairlawn NJ	8	Magnetic Controls Co 6403 Cambridge St Minneapolis 16 Minn	8	Polaroid Electronics Corp 48-20 34 St Long Island City 1 NY	1-4-5-6-11
Green Industries Inc Electronic Products Div 9701 Reading Rd Cincinnati 15 Ohio	4-6	Magnetic Research Corp 3160 W El Segundo Blvd Hawthorne Calif	4-8-10	Power Supplies Inc 1005 Olive St Highland Ill	8
Gulton Industries Inc 212 Durham Ave Metuchen NJ	6-8-10	Mastrol Inc 210 Seneca St Buffalo 2 NY	6	Precision Crystal Lab 2223 Warwick Ave Santa Monica Calif	1
Hallamure Electronics Co 4852 Ironhurst Ave Anaheim Calif	1-2-4-5-6-8-10-11	Maico Co Inc 21 N 3rd St Minneapolis 1 Minn	10	Producers Sales Corp 2704 W Olive Ave Burbank Calif	6
Haller Raymond & Brown Cireleville Rd State College Pa	1-2-4-6-8-10-11	Makepeace Div E Englehard Industries Inc Pine & Denham Sts Attleboro Mass	8	Quantum Electronics Inc 2312 Wisconsin St NE Albuquerque N Mex	8
Hall-Scott Inc 2950 N Ontario St Burbank Calif	4-8-10	Mass Development Co Inc 2212 E 12th St Davenport Iowa	5	Radiophone Co 600 E Evergreen Ave Monrovia Calif	4
Hazeltine Electronics Div/Hazeltine Corp 58-25 Little Neck Pkwy Little Neck 62 NY	3-4-5-6-11	Masson Corp W L 475 10 Ave New York 18 NY	1-2-3-4-5-6-7-8-11	Radiation Inc P O Box 37 Melbourne Fla	4-6-10
Hiwside Chemicals Inc 11 Colfax Ave Clifton NJ	9	Maxfair Molded Products Corp 3700 N Rose St Schiller Park Ill	9	Radio City Products Co Centre & Glendale Sts Easton Pa	1-3-4
Hill Electronic Eng'g & Mfg Co 500 N Chestnut St Mechanicsburg Pa	1	Mic Corp 4031 Elenda St Culver City Calif	1	Radio Corp of America West Coast Electronic Prods Dept 11819 W Olympic Blvd Los Angeles 64 Calif	1-2
Hoffman Electronics Corp 8761 S Hill St Los Angeles 7 Calif	4-5-6-7-8	Microwave Development Labs 92 Broad St Babson Park 67 Mass	1	Radionics Inc P O Box 186 Cockeysville Md	4-8
Higman Labs Inc 155 Perry St New York 14 NY	10	Milgo Electronic Corp 7601 N W 37 Ave Miami 47 Fla	4	Radio Receptor Co Div GIC 240 Wythe Ave Brooklyn 11 NY	11
Holland Electronics 772 E 53 St Brooklyn NY	1-2-8	Millipore Filter Corp 36 Pleasant St Watertown 72 Mass	4		

Rahm Instruments Inc
287 Lafayette St New York 12 NY 6-8-10

Ram Meter Inc
1100 Hill St Ferndale 20 Mich 1-2-4-8

Rams-Woolbridge Corp
Electronic Instrumentation Div
P O Box 8405 Denver 10 Colo 2-4-5-8-10-11

Raytheon Mfg Co Ceramic Sales
Foundry Ave Waltham Mass 8

Rea Co J B
1723 Cloverfield Blvd
Santa Monica Calif 1-4-8-10

Reeder & Co Charles M
171 173 Victor Ave Detroit Mich 6

Reed & Reese Inc
717 N Lake Ave Pasadena 6 Calif 7

Reeves Instrument Corp
Roosevelt Field Garden City NY 6-7

Remler Co
2101 Bryant St San Francisco Calif 4

Republic Aviation Corp
Farmingdale LI New York 1-5-6-8

Read Eng'g Corp
330 S Fair Oaks Ave
Pasadena Calif 1-4-10-11

Revere Corp of America
N Colony Rd Wallingford Conn 5

Rheem Mfg Co Electronics Div
777 Industry Ave Downey Calif 4-8-10

Richardson-Allen Corp
116-15 15 Ave College Point 56 NY 8

Rich Electronics Inc
212 NW 8 Ave Miami 36 Fla 4-6

Riverbank Labs Eng'g Dept
P O Box 65 Geneva Ill 1

Rome Cable Corp
Ridge St Rome NY 10

Rue Products
1628 Venice Blvd Venice Calif 8

Sanders Associates
95 Canal St Nashua NH 6-7

Saratoga Industries
Congress & Ballston Aves
Saratoga Springs NY 8

Schaffer Air Industries
290 N Henry St Brooklyn 22 NY 4-5

Scientific Radio Products Inc
215 S 11 St Omaha Neb 1

Servo Corp of America
2020 Jericho Turnpike
New Hyde Park NY 4

Servomechanisms Inc
12500 Aviation Blvd Hawthorne Calif 4-6-8

Servonics Inc
822 N Henry St Alexandria Va 6

Sightmaster Corp
111 Cedar St New Rochelle NY 10

Simplex Valve & Meter Co
7 E Orange St Lancaster Pa 10

Solartron Electronic Group Ltd
Queens Rd Thames Ditton
Surrey England 4-8-10

Specialty Eng'g & Electronics Co
79 Clifton Pl Brooklyn 38 NY 2-4

Spellman TV Co
3029 Welster Ave New York 67 NY 8

Sperry Gyroscopic Co Sunnyvale Dev Center
294 Commercial St Sunnyvale Calif 6-7

Sperry Gyroscopic Co
Air Arm Div Great Neck NY 4-6-7-11

Sperry Gyroscopic Co
Surface Instrument Div
Great Neck NY 4-5-6-7

Sperry Gyroscopic Co Marine Div
Roosevelt Field Mineola NY 7

Spivey Inc James S
4808 Hampden Lane Washington 11 DC 10

Stackpole Carbon Co
St Marys Pa 9

Stanley Aviation Corp
2501 Dallas St Denver Colo 4-5-8

Statham Labs Inc
12401 W Olympic Blvd
Los Angeles 64 Calif 10

Stavid Eng'g Inc
U S Route 22 Plainfield NJ 4-6-10-11

Stromberg-Carlson Div General
Dynamics Corp 100 Carlson Rd
Rochester 3 NY 4

Summit Electronics Products
14706 Arminta St Van Nuys Calif 8

Sun Electric Corp
Harlem & Avondale Ave
Chicago 31 Ill 4-5-8

Sylvania Electric Products Co
Electric Systems Div
100 First Ave Waltham 54 Mass 6

Syzron Corp
2055 Concord Blvd Concord Calif 4-10

Taffer Radio & TV Co
27-05 Brooklyn-Queens Expressway W
Dowside 77 NY 8

Taller & Cooper
75 Front St Brooklyn 1 NY 4-5

Tarc Electronics Inc
48 Urban Ave Westbury LI NY 8

Technical Oil Tool Corp
1057 N La Brea Los Angeles 38 Calif 4-6

Telechrome Mfg Corp
28 Ranick Dr Amityville LI NY 8-10

Telectro Industries Corp
35-18 37 St
Long Island City 1 NY 1-3-4-6-8-10

Tele-Dynamics Inc
51 & Parkside Philadelphia 4 Pa 8-10

Telephonics Corp
Park Ave Huntington LI NY 6-8-11

Telerad Mfg Corp
Route 69 Flemington NJ 8-10-11

Telerad Mfg Corp
1440 Broadway New York 18 NY 6-8-10-11

Telex
1633 Eustis St St Paul 1 Minn 3-8

Tel-Instrument Electronics Corp
728 Garden St Carlstadt NJ 8

Tempo Aircraft Corp
P O Box 5191 Dallas 2 Texas 4-5-6-10-11

Tempo Instrument Inc
240 Old Country Rd Hicksville NY 3

Texas Instruments Inc
6000 Lemmon Ave Dallas 9 Texas 4-6-8-10

Thompson Products Inc Electronics Div
2186 Clarkwood Rd Cleveland 3 Ohio 1-4

Topp Industries Inc
8907 Wilshire Blvd
Beverly Hills Calif 2-4-8-11

Torwico Electronics Inc
1090 Morris Ave Union NJ 5

Trans Electronics Inc
7348 Canoga Ave Canoga Park Calif 8

UAC Electronics Div
Universal Transistor Prods Corp
50 Rond St Westbury LI NY 8

Ultradyne Eng'g Labs
P O Box 3308 Albuquerque New Mex 6-8-10

United Aircraft Products Inc
1116 Bolander Ave Dayton 8 Ohio 9

United Electrodynamics
1200 S Marengo Ave
Pasadena Calif 4-5-8-10-11

United Mfg Co Div W L Maxson Corp 4
41 Haig St Hamden 14 Conn 4

Universal Translator Products Corp
35 Sylvester St Westbury LI NY 8

U S Gauge Div American Machine & Metals
Sellersville Pa 4-6-11

U S Granite Co Div Wickes Corp
1621 Holland Ave Saginaw Mich 9

Van Norman Industries Inc Electronics Div
186 Granite St Manchester NH 6-10

Varo Mfg Co
2201 Walnut St
Garland Texas 1-2-4-5-6-8-10

Vectrol Eng'g Inc
P O Box 1030 Stamford Conn 1-2-8

Vickers Inc Electric Products Div
1887 Locust St St Louis 3 Mo 1-2-4-6-8

Virginia Electronics Co
River Rd & B & O R R
Washington 16 DC 1-4-8

Wacline Inc
35 St Clair St Dayton 2 Ohio 1-2

Waldorf Instrument Co
Div F C Hurck & Sons
Park Ave Huntington Station NY 4-6-8-10

Waltham Precision Instrument Co
221 Crescent St Waltham 54 Mass 7

Wang Labs Inc
37 Hurley St Cambridge 41 Mass 1-10

Westbury Electronics Inc
300 Shames Dr Westbury NY 8

West Coast Electronics Co
9261 W 3 St Beverly Hills Calif 8-10

West Coast Research Corp
23715 Westwood Blvd
Los Angeles 64 Calif 3-4-5-6-8-10-11

Western Gear Corp Electro Products Div
132 W Colorado St Pasadena 1 Calif 2-5-8

Westinghouse Electric Co Div Air Arm Div
P O Box 746 Friendship Intl A P
Baltimore Md 3-6-7-8

Westinghouse Electric Corp
P O Box 888 Pittsburgh 30 Pa 5-6-7-8

Wickes Eng'g & Construction Co
12 St & Ferry Ave Camden 4 NJ 2-4-5-8

Wincharger Corp
E 7 & Division St Sioux City 2 Iowa 8

Winder Aircraft Corp of Florida
P O Box 2397 Drane Field
Lakeland Fla 4-5-6

Zena Eng'g Co
6355 Kenmore Ave Los Angeles 6 Calif 10

Aeronautical Electronics Inc
P O Box 6527
Raleigh NC 3-6-7-9-11-13-14

Aerophysics Dev Corp Suh Curtius-Wright
Corp
P O Box 689 Santa Barbara Calif 11-12-13

Aircraft Radio Corp
Houston NJ 9-12-13

American Electronics Inc
655 W Washington Blvd
Los Angeles 15 Calif 13

American Machine & Foundry Co
Gen Eng Labs
11 Bruce Pl Greenwich Conn 1

American Printed Circuits Co
104 Furraet St Metuchen NJ 14

American Research & Mfg Corp
920 Halpine Ave Rockville Md 3

Applied Electronics Co
213 E Grand Ave
S San Francisco Calif 6-7-14

Audicon Electronics Inc
216 Lyon St Paterson 4 NJ 3-6-7

Audio Equipment Co
805 Middle Neck Rd Great Neck NY 2

Audio Labs Inc
Shepard Hill Rd Roxbury NY 2

Avia Products Co
2266 Beverly Blvd
Los Angeles 36 Calif 6-7-14

Barker & Williamson Inc
Canal & Heaver Sts Bristol Pa 6

Barze Electronics Corp
630 Dundee Rd Northbrook Ill 7-11

Bell Aircraft Corp
P O Box 1 Buffalo 5 NY 6

Bendix Aviation Corp Bendix Radio Div
Baltimore 4 Md 2-4-6-7-12-13-14-15

Bendix Aviation Corp
1104 Fisher Bldg Detroit 2 Mich 4-7-8-14-15

Bennett Labs Inc
2700 Bay Rd Redwood City Calif 1

Bergen Labs
247 Crooks Ave Clifton NJ 10

Bliss Electronic Corp
Box 366 Sunsex NJ 8

Boggs Presto Div Singler Corp
P O Box 500 Paramus NJ 3

Browning Labs Inc
750 Main St Winchester Mass 5

Collins Radio Co
855 35 St NE
Cedar Rapids Iowa 6-8-12-13-14

Communications Co
300 Greco Ave Coral Gables Fla 6-7-9-13-11

Conn Telephone & Electric Corp
70 Brittain St Meriden Conn 1-2-3-6-7-9

Consolidated Productions Inc
Kroward Int'l Airport
Ft Lauderdale Fla 14

Control Electronics Co Inc
1925 New York Ave
Huntington Sta NY 6

Coslin Corp
6419 56th Place Riverdale Md 6-14

Craig Systems Inc
80 Halten St Danvers Mass 7-9

Creative Electronics Corp
94 Lincoln Ave
Stamford Conn 1-6-7-8-11-12-13-14-15

Davies Co
Route 10 Livingston NJ 10-11-12-13-14-15

Dayton Aviation Radio & Equipment Corp
P O Box 258 Troy Ohio 7-11

Designers for Industry
4241 Fulton Pl W
Cleveland 9 Ohio 1-3-4-6-7-8-11-13

DuMont Labs A R
750 Bloomfield Ave Clifton NJ 1-5-6-7-11

Dunlap Electronics
764 9 St Des Moines 14 Iowa 7

Dynamic Electronics Inc
75-29 Woodhagen Blvd
Forest Hills NY 3-6-7-9-10-11-13-14-15

Eldico Electronics
25-01 Harden Ave
Long Island City 1 NY 6-7-9-10-11-13-14

Electrical Communications Inc
765 Clementina St San Francisco 3 Calif 3

Electronic Communications Inc
1501 72 St St Petersburg Fla 7-12-13-14

Electronic Creations Co
117A E 180 St New York 60 NY 1

Electronics Design Co
400 E Cornell St P O Box 401
Enid Okla 1-2-6-7-11-12-13-14-15

Electronics Development Co
3743 Cahuenga Blvd N Hollywood Calif 11

Eero Radio Labs Inc
887 Stewart Ave Garden City NY 3-6-7-12-14

Fanon Electric Co
80 Herriman St Brooklyn 8 NY 3-4-8

Feiler Eng'g & Mfg Co
8026 N Monticello Ave Skokie Ill 1-3-11-13

Fox Co Thomas T
95 Summit St Newark NJ 3

Gates Radio Co
123 Hampshire St Quincy Ill 3-14

General Electric Co
Communication Products Dept
P O Box 1122 Syracuse NY 1-3-5-7-12-13-14

General Railway Signal Co
P O Box 690 Rochester NY 7

Gurdin Enterprises
5362 N Cahuenga Blvd N Hollywood Calif 15

Gyro Electronics Co
325 Canal St New York 13 NY 1-11-13

Haller Raymond & Brown
Circleville Rd
State College Pa 3-6-7-9-10-11-12-13-14-15

58—MOBILE COMMUNICATIONS EQUIPMENT

- Citizens radio 1
 - Handsets 2
 - Intercommunicating systems ... 3
 - Packet sets 4
 - Pickup units, mobile TV 5
 - Receivers, fixed 6
 - Receivers, mobile 7
 - Telephones, portable field 8
 - Transceivers, aviation 9
 - Transceivers, lifeboat 10
 - Transceivers, portable 11
 - Transceivers, UHF 12
 - Transceivers, VHF 13
 - Transmitters 14
 - Walkie-talkies 15
- Acme Telectronic Div NEA Service
1200 W 3 St Cleveland 13 Ohio 14
- Adler Electronics Inc
1 LeFevre Lane New Rochelle NY 14
- Admiral Corp
3800 W Cortland St
Chicago 47 Ill 4-12-13-15

Hannaford Mfg Co
460 W 34 St New York 1 NY 6

Haseltine Electronics Div/Haseltine Corp
59-25 Little Neck Pkwy
Little Neck 62 NY 6-7-11-12-13-14

Henth Co
305 Territorial Rd Benton Harbor Mich 6-14

Hoffman Electronics Corp
3761 S Hill St
Los Angeles 7 Calif 4-6-7-9-11-12-13-14-15

Hudson American
29 01 Borden Ave Long Island City NY 18

I D E A Inc
7900 Pendleton Pk Indianapolis 26 Ind 6-7

Industrial Development Eng'g Assoc
7900 Pendleton Pk Indianapolis Ind 6-7

Industrial Radio Corp
428 N Parkside Ave Chicago 44 Ill 6-7-14-15

Johnson Co E F
206 2 Ave SW Waseca Minn 14

Kear Eng'g Corp
2995 Middlefield Rd Palo Alto Calif 1-4-7

Kluge Electronics Inc
5 & Main Sts Albion Neb 11

Kuss Industries Inc
Tacony & Lewis Sts Philadelphia 24 Pa 3-6-7

Land-Air Inc Instrument & Electronic Div
2123 Adams Ave San Leandro Calif 7

Land-Air Inc
7444 W Wilson Ave Chicago 31 Ill 3-4-6-7-14

Langevin Mfg Corp
47-37 Austell Pl Long Island City 1 NY 3

Lavoie Labs Inc
Matawan-Freeland Rd Morganville NJ 3

Leav Inc
3171 S Bundy Dr Santa Monica Calif 9-18

Leitch Eng'g Corp
326 Lincoln St Manchester NH 10-11-12-13

Lel Inc
380 Oak St Copiague NY 6-15

Link-Radio Corp
168 Jericho Tpke New Hyde Park LI NY 14

Lindler Inc
4101 San Fernando Rd Glendale 4 Calif 2

Lynmar Engineers Inc
1432 N Carlisle St Philadelphia 21 Pa 7-14

Maek Electronics Div Inc
1000 S 2 St Plainfield NJ 14

Magnavox Corp
3431 Hunter Rd Ft Wayne 4 Ind 13

Magnavox Co
2131 Baeter Rd Ft Wayne Ind 9-10-11-12-13

Magnetic Amplifiers Inc
642 Tinton Ave New York 55 NY 2

Major Electronics Corp
702 Wythe Ave Brooklyn 11 NY 1

Mayer & Co Inc P R
42 S Gray St Indianapolis 6 Ind 12-13

Measurement Eng'g Ltd
232 John St Arnprior Ontario Can 4-6-11-14

Michigan Electronics Inc
834 N Rockwell St Chicago 22 Ill 11-15

Microwave Eng'g Labs Inc
948 Industrial Ave Palo Alto Calif 6-7-12-13

Millen Mfg Co James
150 Exchange St Malden 45 Mass 14

Mitchell Industries Inc
Municipal A P P O Box 17
Mineral Wells Texas 9

Model Eng'g & Mfg Inc
30 Frederick St
Burlington Ind 3-4-6-7-9-10-11-12-13-14-15

Morrow Radio Mfg Co
2794 Market St Salem Oregon 4-7-14

Mosler Research Products Inc
3 Keeler St Danbury Conn 14

Motocord Communications & Electronics Inc
4501 W Augusta Blvd
Chicago 51 Ill 1-4-6-7-15

Multi-Products Co
21470 Coolidge Hwy
Oak Park 37 Mich 6-7-14-15

National Electronics Labs Inc
1713 Kalamazoo Rd NW
Washington 9 DC 6-7-13-14

Nevada Air Products Co
P O Box 2422 Reno Nev 9-11-12

Northeast Electronics Corp
Airport Rd Concord NH 6-14

North Electric Co
553 S Market St Galion Ohio 3-8

Packard Bell Electronics Corp
12533 W Olympic Blvd
Los Angeles 64 Calif 11

Palmer Inc M V
4092 Fruit Valley Rd Vancouver Wash 3

Pease Simpson Inc
3023 Coral Way Miami 34 Fla 7-14

Pernaflux Products Co
4101 San Fernando Rd Glendale 4 Calif 2

Petcof Corp Peter A
127 Water St New York 5 NY 15

Phileo Corp
Tioga & C Sts
Philadelphia 24 Pa 4-5-6-7-11-12-13-14

Phileo Corp Govt & Industrial Div
4700 Wissahickon Ave
Philadelphia 44 Pa 4-5-6-7-8-9-11-12-13-14

Pratt Albert
114 W Lake View Ave
Milwaukee 17 Wis 6-7-14

Production Research Corp
Thornwood NY 9-10-11-13-15

Pye Canada Ltd
82 Northline Rd Toronto 16
Ontario Canada 6-6-7-13-14-15

Pye Corp of America
1149 Rafitan Ave
Highland Park NJ 6-7-9-11-12-13-14-15

Pye Telecommunications Ltd
Newmarket Rd
Cambridge England 1-3-4-6-7-10-11-13-14-15

Radio City Products Co
Centre & Glendale Sts Easton Pa 9-10

Radio Corp of America
Communications Products Dept
Bldg 1-5 Camden NJ 1-2-6-7-11-12-13-14

Radio Eng'g Labs
29-01 Borden Ave
Long Island City 1 NY 6-14

Radio Kita Inc
126 Cedar St New York 6 NY 1-10

Radio Specialty Mfg Co
225 SE 6 Ave Portland 14 Ore 2-4-15

Ramo-Woodbridge Corp
Electronic Instrumentation Div
P O Box 8405 Denver 10 Colo 4-12-13

Rauland-Borg Corp
3525 W Addison St Chicago 18 Ill 8

Regency Div IDEA Inc
7900 Pendleton Pike Indianapolis Ind 6-7

Remler Co
2101 Bryant St San Francisco Calif 2

Republic Aviation Corp
Farmingdale LI New York 3

Resdel Eng'g Corp
330 S Fair Oaks Ave Pasadena Calif 7-12-13

Rhoin Sound Systems Inc
133 Hamilton St New Haven 5 Conn 6

Roanwell Corp
662 Pacific St Brooklyn 17 NY 2

Roland Radio Corp
716 S Columbus Ave Mt Vernon NY 1

Royal Communication Systems
11462 Euclid Ave Cleveland 6 Ohio 1-3-6-7

Rue Products
1628 Venice Blvd
Venice Calif 1-2-4-10-11-14-15

Sesley Electronics
1060 S Labrea Ave Los Angeles 19 Calif 6-7

Seg Electronics Co Inc
1778 Flatbush Ave Brooklyn 16 NY 6

Servo Corp of America
2020 Jericho Turnpike New Hyde Park NY 6

Shure Bros
222 Hartrey Ave Evanston Ill 2

Simmonds Aerocessories Inc
105 White Plains Rd
Tarrytown NY 10-11-12-13-15

Simpson Mfg Co Mark
32-28 49 St Long Island City 3 NY 3

Spivack Inc James S
4995 Hamden Lane Washington 14 DC 13

Springfield Enterprises
138-17 Springfield Blvd
Springfield Gardens 13 NY 11-13-15

Springer Aircraft Radio Co Earl W
Route 11 Box 320 Indianapolis Ind 9-13

Statistical Instr Corp
330 Haven Ave New York 33 NY 1

Stromberg-Carlson Div General
Dynamics Corp
160 Carlson Rd Rochester 3 NY 1-2-13

Tare Electronics Inc
48 Urban Ave Westbury LI NY 18

Teleshrome Mfg Corp
28 Rankin Dr Amityville LI NY 6

Telectro Industries Corp
45-18 37 St Long Island City 1 NY 3-6-7

Tele-Dynamics Inc
51st & Parkside Philadelphia 4 Pa 14

Telemarine Communications Co
140 W Broadway
New York 13 NY 1-2-8-7-9-11-13-14-15

Telephonics Corp
Park Ave
Huntington LI NY 2-3-4-6-7-8-9-12-13-14-15

Telex
1633 Eustis St St Paul 1 Minn 6

Topp Industries Inc
8907 Wilshire Blvd
Beverly Hills Calif 6-7-9-13-14

Transitron Inc
186 Granite St Manchester NH 6-7-13

Transline Electronic Communication Co
95 Summit St Newark 3 NJ 3

Trans-Tel Corp
918 N Orange Dr Los Angeles 88 Calif 1

Transvil Eng'g Corp
10401 W Jefferson Blvd
Culver City Calif 9

University Loudspeakers Inc
80 S Kenosca Ave White Plains NY 3

Van Norman Industries Inc Electronics Div
186 Granite St Manchester NH 6-7-12-13-14

Vanco Corp
2201 Walnut St Garland Texas 6-7-11-13-14

Virginia Electronics Co
River Rd & B & O RR
Washington 16 DC 3-6-7-11-14

Vocaline Co of America
Coulter St Old Saybrook Conn 1-3-12

Waynes Corp J C
21 Hanse Ave Freeport NY 11-15

Westbury Electronics Inc
300 Shames Dr Westbury NY 1

Young Spring & Wire Co Ganest Div
801 S Main St
Burbank Calif 6-7-9-11-12-13-14

Zenith Radio Corp
6001 Dickens Ave Chicago 39 Ill 1

59—MOBILE COMMUNICATIONS ACCESSORIES

Antennas	1
Antenna bases	2
Auto alarms	3
Control equipment	4
Crystals	5
Microphones	6
Power supplies	7
Power supplies, emergency	8
Recorders, film	9
Recorders, magnetic	10
Selective calling devices	12
Vibration mountings	11

Aerme Teletronix Div NEA Service
1200 W 3 St Cleveland 13 Ohio 9

Aeronautical Electronics Inc
P O Box 6527 Raleigh N Carolina 1-5

Aerophysics Dev Corp Sub
Curtiss-Wright Corp P O Box 689
Santa Barbara Calif 4-6-7-10

Afton Industries
406 St Louis Ave Valley Park Mo 10

Ainslie Corp
312 Quincy Ave Quincy 69 Mass 2

Aircraft Radio Corp
Boonton NJ 1-7

American Brass Co
114 Meadow St Waterbury 88 Conn 1

American Communications Corp
280 Broadway New York 17 NY 3

American Electronics Inc
655 W Washington Blvd
Los Angeles 15 Calif 2-10

American Machine & Foundry Co
Defense Products Group
1101 N Royal St Alexandria Va 7-8

American Rectifier Corp
95 Lafayette St New York 13 NY 7-8

American Television & Radio Co
300 E 4 St St Paul 1 Minn 7-8

Andrew Antenna Corp
606 Beach St Whitby Ontario Canada 1

Andrew California Corp
941 E Marlyne Ave Claremont Calif 1

Andrew Corp
363 E 75 St Chicago 19 Ill 1

Anaco Div Gen'l Antenna & Film Corp
Charles St Binghamton NY 9

Antenna Specialists Co
12435 Euclid Ave Cleveland 6 Ohio 1-2

Applied Electronics Co
213 E Grand Ave S San Francisco Calif 6

Arnoux Corp
11024 W Washington Blvd
Los Angeles 66 Calif 7

Audio Sears Corp
Shapard Hill Rd Roxbury NY 6

Avin Products Co
7266 Beverly Blvd Los Angeles 36 Calif 6

Barrett Electronics Corp
650 Dundee Rd Northbrook Ill 1-12

Bassett Inc Rex
1314 N E 17 Ct Ft Lauderdale Fla 1-3-5

Bell & Gossett Co/Dualux Div
8200 Austin Ave Morton Grove Ill 12

Bendix Aviation Corp Bendix Radio Div
Baltimore 4 Md 4-5-7

Bendix Aviation Corp Red Bank Div
Rt 35 Eastonown NJ 7-8

Bergen Labs
247 Crooks Ave Clifton NJ 10

Biddle Co James G
1316 Arch St Philadelphia 7 Pa 12

Blaine Electronics Inc
14757 Kenwick St Van Nuys Calif 1

Billy Electric Co
Union Sta Bldg Erie Pa 6

Bogue Electric Mfg Co
32 Iowa Ave Paterson 3 NJ 4-7-8

Burgie Inc H H
P O Box 817 Toledo 1 Ohio 1-2

Burwa Watch Co Electronics Div
40-01 61 St Woodside 77 N Y 5

Hundy Electronics Corp
171 Fabian Pl Newark 12 NJ 7-8

Cable Electric Products
234 Daholl St Providence 7 RI 7

Calif Magnetic Control Corp
11922 Valerio St N Hollywood Calif 8

Carter Motor Co
2711 W George St Chicago 18 Ill 5

Christie Electric Corp
3410 W 67 St Los Angeles 43 Calif 7

Cinema-Television Ltd
Worsley Bridge Rd Lower Sydenham
London SE 26 England 3

Clegg Labs Div Clegg Inc
Ridgedale Ave Morristown NJ 7

Communication Accessories Co
U S 50 Hwy Lees Summit Mo
Conn Telephone & Electric Corp
70 Brittainia St Meriden Conn 6

Consolidated Diesel Electric Corp
880 Canal St Stamford Conn 7-8

Cook Co Frank R
36 S Santa Fe Dr Denver 23 Colo 7

Craig Systems Inc
90 Holten St Danvers Mass 1-2-4

Cubic Corp
3574 Kesney Villa Rd
San Diego 11 Calif 7

Rahm Instruments Inc
287 Lafayette St New York 12 NY 6-8-10

Ram Meter Inc
1100 Hilton Rd Ferndale 20 Mich 1-2-4-8

Ramco-Woolridge Corp
Electronic Instrumentation Div
P O Box 8405 Denver 10 Colo 2-4-5-9-10-11

Raytheon Mfg Co Ceramic Seal
Foundry Ave Waltham Mass 9

Rea Co J B
1723 Cloverfield Blvd
Santa Monica Calif 1-4-8-10

Reeder & Co Charles M
171 173 Victor Ave Detroit Mich 6

Reed & Reese Inc
717 N Lake Ave Pasadena 6 Calif 7

Reeves Instrument Corp
Roosevelt Field Garden City NY 6-7

Remler Co
2101 Bryant St San Francisco Calif 4

Republic Aviation Corp
Farmingdale LI New York 1-3-8-8

Resdel Eng'g Corp
330 S Fair Oaks Ave
Pasadena Calif 1-4-10-11

Revere Corp of America
N Colony Rd Wallingford Conn 5

Rheem Mfg Co Electronics Div
1777 Industry Ave Downey Calif 4-8-10

Richardson-Allen Corp
116-15 15 Ave College Point 56 NY 8

Rich Electronics Inc
212 NW 8 Ave Miami 36 Fla 4-6

Riverbank Labs Eng'g Dept
P O Box 55 Geneva Ill 1

Rome Cable Corp
Ridge St Rome NY 10

Rue Products
1628 Venice Blvd Venice Calif 8

Sanders Associates
95 Canal St Nashua NH 6-7

Saratoga Industries
Congress & Hallaton Aves
Saratoga Springs NY 8

Schaffer Air Industries
290 N Henry St Brooklyn 22 NY 4-5

Scientific Radio Products Inc
215 S 11 St Omaha Nebr 1

Servo Corp of America
2020 Jericho Turnpike
New Hyde Park NY 4

Servomechanisms Inc
12500 Aviation Blvd Hawthorne Calif 4-6-8

Servonics Inc
822 N Henry St Alexandria Va 6

Sightmaster Corp
111 Cedar St New Rochelle NY

Simplex Valve & Meter Co
7 F Orange St Lancaster Pa 10

Solartron Electronic Group Ltd
Queens Rd Thames Ditton
Surrey England 4-8-10

Specialty Eng'g & Electronics Co
79 Clifton Pl Brooklyn 38 NY 2-4

Spellman TV Co
3029 Webster Ave New York 67 NY 8

Sperry Gyroscope Co Sunnyvale Dev Center
294 Commercial St Sunnyvale Calif 6-7

Sperry Gyroscope Co
Air Arm Div Great Neck NY 4-6-7-11

Sperry Gyroscope Co
Surface Armanent Div
Great Neck NY 4-5-6-7

Sperry Gyroscope Co Marine Div
Roosevelt Field Mineola NY 7

Spivey Inc James S
4908 Hampden Lane Washington 14 DC 10

Stackpole Carbon Co
St Marys Pa 9

Stanley Aviation Corp
2501 Dallas St Denver Colo 4-5-8

Statham Labs Inc
12401 W Olympic Blvd
Los Angeles 64 Calif 10

Stavid Eng'g Inc
U S Route 22 Plainfield NJ 4-6-10-11

Stromberg-Carlson Div General
Dynamics Corp 100 Carlson Rd
Rochester 3 NY 4

Summit Electronics Products
14706 Arminta St Van Nuys Calif 8

Sun Electric Corp
Harlem & Avondale Ave
Chicago 31 Ill 4-5-8

Sylvania Electric Products Co
Electric Systems Div
100 First Ave Waltham 54 Mass 6

Syston Corp
2055 Concord Blvd Concord Calif 4-10

Taffet Radio & TV Co
27-05 Brooklyn-Queens Expressway W
Dowdside 77 NY 8

Taller & Cooper
75 Front St Brooklyn 1 NY 4-5

Tare Electronics Inc
48 Urban Ave Westbury LI NY 8

Technical Oil Tool Corp
1057 N La Brea Los Angeles 38 Calif 4-6

Teichrome Mfg Corp
28 Ranick Dr Amityville LI NY 8-10

Teletone Industries Corp
35-18 37 St
Long Island City 1 NY 1-3-4-6-8-10

Tele-Dynamics Inc
61 & Parkside Philadelphia 4 Pa 8-10

Telephonics Corp
Park Ave Huntington LI NY 6-8-11

Telerad Mfg Corp
Route 69 Flemington NJ 8-10-11

Telerad Mfg Corp
1440 Broadway New York 18 NY 6-8-10-11

Telex
1633 Eustis St St Paul 1 Minn 3-8

Tel-Instrument Electronics Corp
728 Garden St Carlstadt NJ 8

Temco Aircraft Corp
P O Box 6191 Dallas 2 Texas 4-5-6-10-11

Tempo Instrument Inc
240 Old Country Rd Hicksville NY 3

Texas Instruments Inc
6000 Lemmon Ave Dallas 9 Texas 4-6-8-10

Thompson Products Inc Electronics Div
2196 Clarkwood Rd Cleveland 3 Ohio 1-4

Topp Industries Inc
8907 Wilshire Blvd
Beverly Hills Calif 2-4-8-11

Torwico Electronics Inc
1090 Morris Ave Union NJ 8

Trana Electronics Inc
7349 Canoga Ave Canoga Park Calif 8

UAC Electronics Div
Universal Transistor Prods Corp
50 Bond St Westbury LI NY 8

Ultradyne Eng'g Labs
P O Box 3504 Albuquerque New Mex 6-8-10

United Aircraft Products Inc
1116 Bolander Ave Dayton 8 Ohio 9

United Electro-dynamics
1200 S Marengo Ave
Pasadena Calif 4-5-8-10-11

United Mfg Co Div W I. Maxson Corp
41 Haig St Hamden 14 Conn 4

Universal Transistor Products Corp
36 Sylvester St Westbury LI NY 8

U S Gauge Div American Machine & Metals
Sellersville Pa 4-6-11

U R Graphite Co Div Wickes Corp
1621 Holland Ave Saginaw Mich 9

Van Norman Industries Inc Electronics Div
186 Granite St Manchester NH 6-10

Varn Mfg Co
2201 Walnut St
Garland Texas 1-2-4-5-6-8-10

Vestrol Eng'g Inc
P O Box 1089 Stamford Conn 1-2-5

Vickers Inc Electric Products Div
1887 Locust St St Louis 3 Mo 1-2-4-6-8

Virginia Electronics Co
River Rd & B & O R R
Washington 16 DC 1-4-8

Waeline Inc
35 S St Clair St Dayton 2 Ohio 1-2

Waldorf Instrument Co
Div F C Huxley & Sons
Park Ave Huntington Station NY 4-6-8-10

Waltham Precision Instrument Co
221 Crescent St Waltham 54 Mass 7

Wang Labs Inc
37 Hurley St Cambridge 41 Mass 1-10

Westbury Electronics Inc
300 Shuman Dr Westbury NY 8

West Coast Electronics Co
9261 W 3 St Beverly Hills Calif 8-10

West Coast Research Corp
23715 Westwood Blvd
Los Angeles 64 Calif 3-4-5-6-8-10-11

Western Gear Corp Electro Products Div
132 W Colorado St Pasadena 1 Calif 2-5-8

Westinghouse Electric Co Div Air Arm Div
P O Box 746 Friendship Intl A P
Baltimore Md 3-6-7-8

Westinghouse Electric Corp
P O Box 868 Pittsburgh 30 Pa 3-6-7-8

Wickes Eng'g & Construction Co
12 St & Ferry Ave Camden 4 NJ 2-4-6-8

Winchager Corp
E 7 & Division St Sioux City 2 Iowa 8

Winder Aircraft Corp of Florida
P O Box 2397 Drane Field
Lakeland Fla 4-5-6

Zena Eng'g Co
6355 Kenmore Ave Los Angeles 6 Calif 10

Aeronautical Electronics Inc
P O Box 6527
Raleigh NC 3-6-7-9-11-13-14

Aerophysics Dev Corp Sub Curtiss-Wright
Corp
P O Box 688 Santa Barbara Calif 11-12-13

Aircraft Radio Corp
Bounton NJ 9-12-18

American Electronics Inc
655 W Washington Blvd
Los Angeles 15 Calif 13

American Machine & Foundry Co
Gen Eng Labs
11 Bruce Pl Greenwich Conn
American Printed Circuits Co
104 Forrest St Metuchen NJ 14

American Research & Mfg Corp
920 Halpine Ave Rockville Md 3

Applied Electronics Co
213 E Grand Ave
S San Francisco Calif 6-7-14

Audicon Electronics Inc
216 Lyon St Paterson 4 NJ 3-6-7

Audio Equipment Co
805 Middle Neck Rd Great Neck NY 2

Audix Sears Corp
Shepard Hill Rd Roxbury NY 2

Avia Products Co
7266 Beverly Blvd
Los Angeles 36 Calif 6-7-14

Barker & Williamson Inc
Canal & Weaver Sts Bristol Pa
Barratt Electronics Corp
630 Dundee Rd Northbrook Ill 7-14

Bell Aircraft Corp
P O Box 1 Buffalo 6 NY 6

Bendix Aviation Corp Bendix Radio Div
Baltimore 4 Md 2-4-6-7-12-13-14-16

Bendix Aviation Corp
1104 Fisher Bldg Detroit 2 Mich 4-7-8-14-15

Bentley Labs Inc
2700 Bay Rd Redwood City Calif 1

Bergen Labs
247 Crooks Ave Clifton NJ 10

Bliss Electronic Corp
Box 366 Sussex NJ 4

Blooms-Presby Div Singler Corp
P O Box 500 Paramus NJ 3

Browning Labs Inc
750 Main St Winchester Mass 8

Collins Radio Co
855 35 St NE
Cedar Rapids Iowa 6-9-12-15-11

Communications Co
3041 Green Ave Coral Gables Fla 6-7-9-13-14

Conn Telephone & Electric Corp
70 Britannia St Meriden Conn 1-3-3-6-7-8

Consolidated Productions Inc
Howard Intl Airport
Ft Lauderdale Fla 14

Control Electronics Co Inc
1925 New York Ave
Huntington Sta NY 8

Corbin Corp
5419 56th Place Riverdale Md 6-14

Craig Systems Inc
90 Holton St Danvers Mass 7-9

Creative Electronics Corp
34 Lincoln Ave
Stamford Conn 1-6-7-9-11-13-14-15

Daven Co
Route 10 Livingston NJ 10-11-12-13-14-15

Dayton Aviation Radio & Equipment Corp
P O Box 258 Troy Ohio 7-13

Designers for Industry
4741 Fulton Pkwy
Cleveland 9 Ohio 1-3-4-6-7-9-11-13

DuMont Labs A R
750 Bloomfield Ave Clifton NJ 1-3-4-6-7-11

Dunlap Electronics
764 9 St Des Moines 11 Iowa 8

Dynamic Electronics Inc
74-29 Woodhull Blvd
Forest Hills NY 3-6-7-8-10-11-12-13-14

Eliot Electronics
29-01 Burden Ave
Long Island City 1 NY 6-7-9-10-11-13-14

Electrical Communications Inc
765 Clementina St San Francisco 3 Calif 7

Electronic Communications Inc
1501 72 St St Petersburg Fla 7-12-13-14

Electronic Creations Co
1178 E 180 St New York 60 NY 1

Electronics Design Co
400 E Cornell St P O Box 401
Enid Okla 1-2-6-7-11-12-13-14-15

Electronics Development Co
3743 Cahuenga Blvd N Hollywood Calif 14

Ereo Radio Labs Inc
637 Stewart Ave Garden City NY 3-6-7-12-14

Faxon Electric Co
90 Berriman St Brooklyn 8 NY 2-5-8

Feller Eng'g & Mfg Co
8026 N Monticello Ave Skokie Ill 1-3-11-15

Fox Co Thomas T
95 Summit St Newark NJ 3

Gates Radio Co
123 Hampshire St Quincy Ill 3-4

General Electric Co
Communication Products Dept
P O Box 1122 Syracuse NY 1-3-6-7-12-13-14

General Railway Signal Co
P O Box 600 Rochester NY 7

Gordon Enterprises
5362 N Cahuenga Blvd N Hollywood Calif 15

Gyro Electronics Co
325 Canal St New York 13 NY 1-11-15

Haller Raymond & Brown
Circleville Rd
State College Pa 3-6-7-9-10-11-12-13-14-15

58—MOBILE COMMUNICATIONS EQUIPMENT

Citizens radio 1

Handsets 2

Intercommunicating systems ... 3

Pack sets 4

Pickup units, mobile TV 5

Receivers, fixed 6

Receivers, mobile 7

Telephones, portable field 8

Transceivers, aviation 9

Transceivers, lifeboat 10

Transceivers, portable 11

Transceivers, UHF 12

Transceivers, VHF 13

Transmitters 14

Walkie-talkies 15

Acme Teletronic Div NEA Service
1200 W 3 St Cleveland 13 Ohio 14

Adler Electronics Inc
1 Lefevre Lane New Rochelle NY 14

Admiral Corp
3800 W Cortland St
Chicago 47 Ill 4-12-13-15

Hammerland Mfg Co
460 W 34 St New York 1 NY 6

Hazeltine Electronics Div Hazeltine Corp
59-25 Little Neck Pkwy
Little Neck 62 NY 6-7-11-12-13-14

Heath Co
305 Territorial Rd Benton Harbor Mich 6-14

Hoffman Electronics Corp
3761 S Hill St
Los Angeles 7 Calif 4-6-7-9-11-12-13-14-15

Hudson American
29 01 Borden Ave Long Island City NY 14

I D E A Inc
7900 Pendleton Pk Indianapolis 26 Ind 6-7

Industrial Development Eng'g Assoc
7900 Pendleton Pk Indianapolis Ind 6-7

Industrial Radio Corp
428 N Parkside Ave Chicago 44 Ill 6-7-11-15

Johnson Co E F
206 E Ave SW Waseca Minn 14

Kaar Eng'g Corp
2995 Middlefield Rd Palo Alto Calif 1-4-7

Kluge Electronics Inc
5 & Main Sts Albion Neb 11

Kuss Industries Inc
Tacony & Lewis Sts Philadelphia 24 Pa 3-6-7

Land-Air Inc Instrument & Electronic Div
2123 Adams Ave San Leandro Calif 7

Land-Air Inc
7444 W Wilson Ave Chicago 31 Ill 3-4-6-7-14

Langevin Mfg Corp
47-37 Austell Pl Long Island City 1 NY 3

Lavoie Labs Inc
Matawan-Freshhold Rd Morganville NJ 3

Lear Inc
2171 S Bundy Dr Santa Monica Calif 9-18

Leitch Eng'g Corp
325 Lincoln St Manchester NH 10-11-12-18

Lel Inc
380 Oak St Copiague NY 6-13

Link-Radio Corp
110 Jericho Tpke New Hyde Park LI NY 11

Lindlar Inc
410 San Fernando Rd Glendale 4 Calif 2

Lynnair Engineers Inc
1432 N Carlisle St Philadelphia 21 Pa 7-14

Mack Electronics Div
1000 S 2 St Plainfield NJ 14

Magnavox Corp
2131 Bucter Rd Ft Wayne 4 Ind 13

Magnatone Co
2131 Bucter Rd Ft Wayne Ind 9-10-11-12-13

Magnetic Amplifiers Inc
642 Tinton Ave New York 55 NY 2

Major Electronics Corp
762 Wethe Ave Brooklyn 11 NY 1

Malkin & Co Inc P R
42 S Gray St Indianapolis 6 Ind 12-13

Measurement Eng'g Ltd
232 John St Armuror Ontario Can 4-6-11-14

Michigan Electronics Inc
854 N Rockwell St Chicago 22 Ill 11-15

Microwave Eng'g Labs Inc
913 Industrial Ave Palo Alto Calif 6-7-12-13

Millon Mfg Co James
124 Exchange St Malden 48 Mass 14

Mitchell Industries Inc
Municipal A P P O Box 17
Mineral Wells Texas 9

Model Eng'g & Mfg Inc
56 Frederick St
Huntington Ind 3-4-6-7-9-10-11-12-13-14-15

Morroe Radio Mfg Co
2794 Market St Salem Oregon 4-7-14

Mosley Research Products Inc
3 Keefer St Danbury Conn 14

Motorola Communications & Electronics Inc
4501 W Augusta Blvd
Chicago 51 Ill 1-4-6-7-15

Multi-Products Co
21470 Coolidge Hwy
Oak Park 87 Mich 6-7-14-15

National Electronics Labs Inc
1713 Kalamazoo Rd NW
Washington 9 DC 6-7-13-14

Nevada Air Products Co
P O Box 2472 Reno Nev 9-11-12

Northwest Electronics Corp
Airport Rd Concord NH 6-14

North Electric Co
553 S Market St Galion Ohio 5-8

Packard Bell Electronics Corp
12333 W Olympic Blvd
Los Angeles 64 Calif 11

Palmer Inc M V
4002 Fruit Valley Rd Vancouver Wash 3

Pearce Simpson Inc
3023 Coral Way Miami 34 Fla 7-14

Permodux Products Co
4101 San Fernando Rd Glendale 4 Calif 2

Petoff Corp Peter A
127 Water St New York 5 NY 15

Phileo Corp
Tioga & C Sts
Philadelphia 24 Pa 4-5-6-7-11-12-13-14

Phileo Corp Govt & Industrial Div
4700 Wissahickon Ave
Philadelphia 44 Pa 4-5-6-7-8-9-11-12-13-14

Pratt Albert
114 W Lake View Ave
Milwaukee 17 Wis 6-7-14

Production Research Corp
Thornwood NY 9-10-11-13-15

Pye Canada Ltd
82 Northline Rd Toronto 16
Ontario Canada 5-6-7-13-14-15

Pye Corp of America
1149 Hariton Ave
Highland Park NJ 6-7-9-11-12-13-14-15

Pye Telecommunications Ltd
Newmarket Ill
Cambridge England 1-3-4-6-7-10-11-13-14-15

Radio City Products Co
Centre & Glendale Sts Easton Pa 9-10

Radio Corp of America
Communications Products Dept
Bldg 1-5 Camden NJ 1-2-6-7-11-12-13-14

Radio Eng'g Labs
29-01 Borden Ave
Long Island City 1 NY 6-14

Radio Kits Inc
120 Cedar St New York 6 NY 1-10

Radio Specialty Mfg Co
223 SE 6 Ave Portland 14 Ore 2-4-15

Ramo-Woodbridge Corp
Electronic Instrumentation Div
P O Box 8405 Denver 10 Colo 4-12-13

Rauland-Borg Corp
3535 W Addison St Chicago 18 Ill 8

Regency Div IDEA Inc
7900 Pendleton Pike Indianapolis Ind 6-7

Remler Co
2101 Bryant St San Francisco Calif 2

Republic Aviation Corp
Farmingdale LI New York 2

Reedel Eng'g Corp
330 S Fair Oaks Ave Pasadena Calif 7-12-13

Rhein Sound Systems Inc
133 Hamilton St New Haven 5 Conn 6

Rounwell Corp
662 Pacific St Brooklyn 17 NY 2

Roland Radio Corp
716 S Columbus Ave Mt Vernon NY 1

Royal Communication Systems
11462 Euclid Ave Cleveland 6 Ohio 1-3-6-7

Rue Products
1628 Venice Blvd
Venice Calif 1-2-4-10-11-14-15

Seelye Electronics
1960 S Labrea Ave Los Angeles 19 Calif 6-7

Seg Electronics Co Inc
1778 Flatbush Ave Brooklyn 10 NY 6

Servo Corp of America
2020 Jericho Turnpike New Hyde Park NY 6

Shure Bros
222 Hartrey Ave Evanston Ill 2

Simmonds Aerospaces Inc
105 White Plains Rd
Tarrytown NY 10-11-12-13-15

Simpson Mfg Co Mark
32-28 49 St Long Island City 3 NY 2

Spivey Inc James S
4900 Hampden Lane Washington 14 DC 13

Springfield Enterprises
138-17 Springfield Blvd
Springfield Gardens 18 NY 11-13-15

Springer Aircraft Radio Co Karl W
Route 11 Box 330 Indianapolis Ind 9-13

Statistical Instr Co
330 Haven Ave New York 38 NY 1

Stromberg-Carlson Div General
Dynamics Corp
100 Carlson Rd Rochester 3 NY 1-2-13

Tare Electronics Inc
48 Urban Ave Westbury LI NY 15

Telechrome Mfg Corp
28 Hanick Dr Amityville LI NY 5

Telectra Industries Corp
35-18 37 St Long Island City 1 NY 3-6-7

Tele-Dynamics Inc
51st & Parkside Philadelphia 4 Pa 14

Telenarine Communications Co
140 W Broadway
New York 13 NY 1-2-6-7-9-11-13-14-15

Telephones Corp
Park Ave
Huntington LI NY 2-3-4-6-7-9-12-13-14-15

Telex
1633 Eustis St St Paul 1 Minn 6

Topp Industries Inc
8907 Wilshire Blvd
Beverly Hills Calif 6-7-9-13-14

Transitron Inc
186 Granite St Manchester NH 6-7-13

Transline Electronic Communication Co
95 Summit St Newark 3 NJ 3

Trans-Tel Corp
910 N Orange Dr Los Angeles 38 Calif 1

Tronval Eng'g Corp
10401 W Jefferson Blvd
Culver City Calif 9

University Loudspeakers Inc
89 S Kenosia Ave White Plains NY 3

Van Norman Industries Inc Electronics Div
186 Granite St Manchester NH 6-7-12-13-14

Vaco Mfg Co
229 W Walnut St Garland Texas 6-7-11-13-14

Virginia Electronics Co
River Rd & B & O RR
Washington 16 DC 3-6-7-11-14

Vocaline Co of America
Coulter St Old Saybrook Conn 1-3-12

Warren Corp J C
21 Hanse Ave Freeport NY 11-15

Westbury Electronics Inc
300 Shames Dr Westbury NY 1

Young Spring & Wive Co Ganset Div
801 S Main St
Burbank Calif 6-7-9-11-12-13-14

Zenith Radio Corp
6091 Dickens Ave Chicago 39 Ill 1

59—MOBILE COMMUNICATIONS ACCESSORIES

Antennas	1
Antenna bases	2
Auto alarms	3
Control equipment	4
Crystals	5
Microphones	6
Power supplies	7
Power supplies, emergency	8
Recorders, film	9
Recorders, magnetic	10
Selective calling devices	12
Vibration mountings	11

Aemo Teletronix Div NEA Service
1200 W 3 St Cleveland 13 Ohio 9

Aeronautical Electronics Inc
P O Box 6527 Raleigh N Carolina 1-5

Aerophysics Dev Corp Sub
Curtiss-Wright Corp P O Box 689
Santa Barbara Calif 4-6-7-10

Aifton Industries
406 St Louis Ave Valley Park Mo 10

Aimatic Corp
812 Quincy Ave Quincy 69 Mass 2

Aircraft Radio Corp
Boonton NJ 1-7

American Brass Co
414 Meadow St Waterbury 88 Conn 7

American Communications Corp
280 Broadway New York 17 NY 5

American Electronics Inc
655 W Washington Blvd
Los Angeles 15 Calif 7-10

American Machine & Foundry Co
Defense Products Group
1101 N Royal St Alexandria Va 7-8

American Roetler Corp
95 Lafayette St New York 13 NY 7-8

American Television & Radio Co
300 E 4 St St Paul 1 Minn 7-8

Andrew Antenna Corp
406 Beech St Whitby Ontario Canada 1

Andrew California Corp
941 E Maryland Ave Claremont Calif 1

Andrew Corp
363 E 75 St Chicago 19 Ill 3

Ansoo Div Gen'l Aniline & Film Corp
Charles St Binghamton NY 9

Antenna Specialists Co
1243 Euclid Ave Cleveland 6 Ohio 1-2

Applied Electronics Co
215 K Grand Ave S San Francisco Calif 6

Arnoux Corp
11924 W Washington Blvd
Los Angeles 66 Calif 2

Audio Sears Corp
Shepard Hill Rd Roxbury NY 6

Avia Products Co
7266 Beverly Blvd Los Angeles 36 Calif 6

Barrett Electronics Corp
630 Dundee Rd Northbrook Ill 1-12

Bassett Inc Rex
1314 N E 17 Ct Ft Lauderdale Fla 1-2-5

Bell & Gossett Co/Dunlex Div
8200 Austin Ave Morton Grove Ill 12

Bendix Aviation Corp Bendix Radio Div
Baltimore 4 Md 4-5-7

Bendix Aviation Corp Red Bank Div
Rt 25 Eatontown NJ 7-8

Berger Labs
247 Crooka Ave Clifton NJ 10

Biddle Co James G
1316 Avch St Philadelphia 7 Pa 12

Blaine Electronics Inc
14757 Koswick St Van Nuys Calif 3

Billey Electric Co
Union Sta Bldg Erie Pa 5

Bonue Electric Mfg Co
52 Iowa Ave Paterson 3 NJ 4-7-8

Bugzie Inc H H
P O Box 817 Toledo 1 Ohio 1-2

Bolova Watch Co Electronics Div
40-01 61 St Woodside 77 N Y 3

Bundy Electronics Corp
171 Fabran Pl Newark 12 NJ 7-8

Cable Electric Products
234 Dahloll St Providence 7 RI 7

Calif Magnetic Control Corp
11922 Valerio St N Hollywood Calif 8

Carter Motor Co
2714 W Geneva St Chicago 18 Ill 7

Christian Electric Corp
3416 W 67 St Los Angeles 43 Calif 7

Cinema-Television Ltd
Worsley Bridge Rd Lower Sydenham
London SE 26 England 3

Clegg Labs Div Clegg Inc
Ridgedale Ave Morristown NJ 7

Communication Accessories Co
U S 50 Hwy Lees Summit Mo 3-12

Conn Telephone & Electric Corp
70 Britannia St Meriden Conn 6

Consolidated Diesel Electric Corp
880 Canal St Stamford Conn 7-8

Cook Co Frank R
36 S Santa Fe Dr Denver 23 Colo 7

Craig Systems Inc
90 Holten St Danvers Mass 1-2-4

Cubic Corp
5575 Kearny Villa Rd
San Diego 11 Calif 7

Dallons Labs 5066 Santa Monica Blvd Los Angeles 29 Calif			
Daven Co Route 10 Livingston NJ	7-8		
Davenport Mfg Co 1713 N Ashland Ave Chicago 22 Ill	7		
Defender Instrument & Regulator Co Hoody Ill	1		
Diamond Antenna & Microwave Corp 7 North Ave Wakefield Mass	1		
Dressen-Harnes Corp 250 N Vinedo Ave Pasadena Calif	7		
DuMont Labs A B 750 Bloomfield Ave Clifton NJ	1-2-3-4-5-6-11-12		
Dunlap Electronics 764 9 St Des Moines 14 Iowa	3-7-8		
Dynamic Electronics Inc 78-29 Woodhaven Blvd Forest Hills NY	1-7		
Eicor Inc 4235 W North Ave Chicago 39 Ill	7		
Eicor Inc Div Jacobs Co 517 W Walnut St Oglesby Ill	7		
Edico Electronics 29-01 Harden Ave Long Island City 1 NY	7-8		
Electrical Communications Inc 765 Clementina St San Francisco 3 Calif	4-5-8		
Electric Regulator Corp Pearl St Norwalk Conn	7-8		
Electric Specialty Co 211 South St Stamford 1 Conn	7		
Electronic Measurements Co Lewis St & Maple Ave Easton town NJ	7-8		
Electronic Production & Development 138 Nevada St El Segundo Calif	7		
Electronic Research Associates 67 Factory Pl Cedar Grove NJ	7		
Electronic Specialty Co 5121 San Fernando Rd Los Angeles 39 Calif	1		
Electrovert Inc 489 5 Ave New York NY	6		
Electro-Voice Inc Cecil & Carrol St Buchanan Mich	6		
Elgin National Watch Co 107 National St Elgin Ill	6		
Engineered Magnetics Div Gulton Industries Inc 13030 Cerise Ave Hawthorne Calif	7		
E-Z Way Towers Inc 5901 E Broadway Tampa 5 Fla	2		
Fanon Electric Co 90 Berriman St Brooklyn 8 NY	12		
Federal Shockmount Corp 1050 Washington Ave New York 56 NY	11		
Felt & Tarrant Mfg Co Comptometer Division Algonquin Ill	10		
Fen-Tone Corp 106 5th Ave New York 11 NY	6-10		
Ferriman Electronics Co 693 Broadway New York 12 NY	7		
Gabriel Electronic Div Gabriel Co 135 Crescent Rd Needham Heights 94 Mass	1		
Garrett Corp Aircsearch Mfg Co Div 9551 Supulveda Blvd Los Angeles 45 Calif	7-8		
Gates Electronics Co 2090 Barnes Ave Bronx 62 NY	7-8		
General Electric Co Communication Products Dept P O Box 1122 Syracuse NY	4-5-6-7-12		
General Electric Co Rectifier Dept Mountain View Rd Lynchburg Va Geotechnical Corp	7-8		
3712 Haggar Dr Dallas 9 Texas	9		
Gordon Enterprises 5362 N Cahuensa Blvd N Hollywood Calif	9-10		
Green Rectifier Co 1-10 30 St Fairlawn NJ	7		
Gulton Industries Inc 212 Durham Ave Metuchen NJ	1-2-7-12		
Haller Raymond & Brown Circleville Rd State College Pa	1-7-8-12		
Heath Co 305 Territorial Rd Benton Harbor Mich	3		
Heinz Mueller Eng'g Co 1906 N Cicero Ave Chicago 39 Ill	7		
Hoffman Electronics Corp 3761 S Hill St Los Angeles 7 Calif	1-4		
Houston Fearless Div Color Corp of America 11801 W Olympic Blvd Los Angeles 64 Calif	1-2		
I D E A Inc 7900 Pendleton Pk Indianapolis 26 Ind	1		
Industrial Development Eng'g Assoc 7900 Pendleton Pk Indianapolis Ind	1		
Industrial Research Labs Div Aerona Mfg Corp Hilltop & Fredericks Rds Baltimore Md	8		
I E Mfg 325 N Hoyne Ave Chicago 12 Ill	2		
Illumitronic Eng'g Co 680 E Taylor Ave Sunnyvale Calif	1		
Industrial Radio Corp 425 N Parkside Ave Chicago 44 Ill	7		
Insuline Corp of America 186 Granite St Manchester NH	1-2		
International Crystal Mfg Co 18 N Lee Ave Oklahoma City 1 Okla	8		
Isolantite Mfg Corp Warren Ave Stirling NJ	1		
I-T-E Circuit Breaker Co Special Products Div 601 E Erie Ave Philadelphia 8 Pa	2		
Kaiser Aircraft & Electronics Corp Toledo Electronics Div P O Box 437 Toledo Ohio	7-8		
Kelsey-Hayes Co 3600 Military Ave Detroit 32 Mich	1-2		
Kilgen Aircraft Div Kilgen Organ Co 1632 W Florissant Ave St Louis 15 Mo	4-12		
Klink Metal Spinning & Stamping Co 245 Centre St New York 13 NY	2		
Kluge Electronics Inc 5 & Main Sts Albion Nebr	3		
Knights Co James Church & Wells Sts Sandwich Ill	5		
Kusa Industries Inc Taony & Lewis Sts Philadelphia 24 Pa	1-2-7		
K-W Eng'g Works 15920 Pin Oak Ct Butler Wis	1		
La Pointe Industries Inc 155 W Main St Rockville Conn	1-2		
Lee Electric & Mfg Co 2508 Clearwater St Los Angeles 39 Calif	8		
Leitch Eng'g Corp 328 Lincoln St Manchester NH	7		
Island Electric Co Aircraft Products Plant 740 E National Rd Vandalia Ohio	7-8		
Linlar Inc 4101 San Fernando Rd Glendale 4 Calif	6-7-8		
Lord Mfg Co 1635 W 12 St Erie 6 Pa	11		
Madigan Corp 526 Mineola Ave New York 55 NY	7		
Magnetics Mfg Co 5546 Satsuma Ave N Hollywood Calif	9-10		
Magneord Div Midwestern Instruments Inc P O Box 7186 Tulsa Okla	10		
Magnetic Amplifiers Inc 632 Tinton Ave New York 55 NY	7		
Magnetics Research Corp 1160 W El Segundo Blvd Hawthorne Calif	7-8		
Mallory & Co Inc P R 42 S Gray St Indianapolis 6 Ind	7		
Master Mobile Mounts Inc 1306 Bond St Los Angeles 16 Calif	1-2-5		
Metal Fabricators Corp 75 Pond St Waltham 54 Mass	2		
Michigan Electronics Inc 854 N Rockwell St Chicago 22 Ill	4-10		
Minn-Honeywell Regulator Co Davies Lab Div 10721 Hanna St Beltsville Md	10		
Mobil Electronics Mfg Co 1111 State Rd 67 E Anderson Ind	12		
Morse Associates Inc 2628 Spring St Redwood City Calif	12		
Morrow Radio Mfg Co 2794 Market St Salem Oregon	7		
Moseley Co P L 409 N Fair Oaks Ave Pasadena Calif	7		
Motoresearch Co 1600 Junction Ave Racine Wis	7		
Multi-Products Co 21470 Cuddehly Hwy Oak Park 37 Mich	4-7-12		
Nebel Laboratory R E 1634 E 12 St Brooklyn 29 NY	3		
Newcomb Spring Corp 177 E Hawthorne Ave Valley Stream NY	11		
NJE Corp 345 Carnegie Ave Kenilworth NJ	7		
Nuclear Products Erco Div ACF Industries Inc Riverdale Md	2		
O'Brien Electric Corp 6514 Santa Monica Blvd Hollywood 38 Calif	8		
Opad Electric Co 89 Murray St New York 7 NY	7		
Otis Elevator Co Electronic Div 35 Ryerson St Brooklyn 5 NY	4-7		
Owen Labs Inc 55 Beacon Pl Pasadena Calif	7		
Palmer Inc M V 4002 Fruit Valley Rd Vancouver Wash	12		
Pearce Simpson Inc 3023 Coral Way Miami 34 Fla	6		
Perkin Eng'g Corp 345 Kansas St El Segundo Calif	7-8		
Permuflux Products Co 4101 San Fernando Rd Glendale 4 Calif	6-7-8		
Permutite Mfg Co 444 Lake Shore Dr Chicago 11 Ill	2		
Peschel Electronics Inc 13 Garden St New Rochelle NY	8		
Petroff Corp Peter A 127 Water St New York 5 NY	1-2		
Phileo Corp Tioga & C Sts Philadelphia 24 Pa	1-4-7-8		
Pioneer Gen-E-Motor Corp 5841 W Diens Ave Chicago 39 Ill	8		
Plastic Capacitors Inc 2620 N Clyburn Ave Chicago 14 Ill	7		
Pneumafil Corp 2516 Wilkinson Blvd Charlotte 8 NC	11		
Power Supplies Inc 1005 Olive St Highland Ill	7-8		
Premax Products Div Chisholm-Ryder Co College & Highland Aves Niagara Falls NY	1-2		
Produlin Inc 307 Bergen Ave Kearny NJ	1		
Pye Telecommunications Ltd Newmarket Rd Cambridge England	1-2-4-5-7-8		
Quantum Electronics Inc 2312 Wisconsin St NE Albuquerque N Mex	7-8		
Radio City Products Co Centre & Glendale Sts Easton Pa	3		
Radio Corp of America Communications Products Dept Bldg 1-5 Camden NJ	1-2-4-5-6-7-8-11-12		
Ramo-Wouldridge Corp Electronic Instrumentation Div P O Box 8405 Denver 10 Colo	7-10		
Regency Div IDEA Inc 7800 Pendleton Pike Indianapolis Ind	1		
Republic Aviation Corp Farmingdale LI New York	7		
Roswell Corp 682 Pacific St Brooklyn 17 NY	6		
Robinson Aviation Inc Teterboro NJ	11		
Rohm Co Tunfield Mass	6		
Rolderscraft Corp of Calif 1800 W 220 St Torrance Calif	11		
Rue Products 1628 Venice Blvd Venice Calif	7-8		
Saratoga Industries Congress & Hallston Aves Saratoga Springs NY	7-8		
Scantlin Electronics Inc 11624 W Pico Blvd Los Angeles 64 Calif	12		
Scientific Radio Products Inc 215 S 11 St Omaha Nebr	6		
Scientific Radio Service 4301 Sheridan St University Park Hyattsville Md	8		
Sheppard Co R H 101 Philadelphia St Hanover Pa	7		
Shure Bros 222 Hartrey Ave Evanston Ill	6		
Simmonds Accessories Inc 105 White Plains Rd Tarrytown NY	7		
Snyder Mfg Co 22 & Ontario Sts Philadelphia 40 Pa	1-2		
S O S Cinema Supply Corp 602 W 82 St New York 19 NY	6-7-8-9-10		
Southwestern Industrial Electronics Co 2831 Post Oak Rd Houston 19 Texas	7-10		
Spartan Control Systems Div Sparks- Wilkinson 2301 E Michigan Ave Jackson Mich	3		
Spivry Inc James S 4908 Hampden Lane Washington 14 DC	8		
Stancil-Hoffman Corp 821 N Highland Ave Hollywood 38 Calif	10		
Statistical Instr Co 330 Haven Ave New York 33 NY	7		
Stewart & Stevenson Service 4516 Harrisburgh Blvd Houston 1 Texas	8		
Super Electronics Corp 31 Worth St New York 13 NY	1-7		
Taco Electronics Inc 48 Western Ave Westbury LI NY	7		
Technical Appliance Corp 1 Taco St Sherburne NY	1-2		
Telford Crystal Labs 4126 Crystal Ave Cincinnati 23 Ohio	5		
Telectro Industries Corp 35-18 37 St Long Island City 1 NY	7-8-10		
Telephones Corp Park Ave Huntington LI NY	6		
Tenna Mfg Co 7580 Garfield Blvd Cleveland 25 Ohio	1		
Torwico Electronics Inc 1000 Morris Ave Union NJ	1		
TV Hardware Mfg Co Div Textron Inc 409 S Wyman St Rockford Ill	2		
TV Specialty Co 350 W 31 St New York 1 NY	9		
UAC Electronics Div Universal Transistor Probe Corp 50 Bond St Westbury LI NY	7-8		
Ultradyne Eng'g Labs P O Box 3308 Albuquerque New Mex	7		
Universal Translator Products Corp 36 Sylvester St Westbury LI NY	7-8		
U S Testing Co 1415 Park Ave Hoboken NJ	1		
Vari Mfg Co 2201 Walnut St Garland Texas	4-7-8-12		
Virginia Electronics Co River Rd & B & O R R Washington 16 DC	1-4-7		
Warren Corp J C 21 Hansa Ave Freeport NY	10		
Warwick Mfg Corp 7300 N Leigh Ave Chicago 31 Ill	10		
Wincharger Corp F T & Division St Sioux City 2 Iowa	7-8		
Winder Aircraft Corp of Florida P O Box 2397 Drane Field Lakeland Fla	8		
Young Spring & Wire Co Ganset Div 801 S Main St Burbank Calif	4-7-12		

60—MOTION PICTURE EQUIPMENT

Cameras, 8MM	1
Cameras, 16MM	2
Cameras, 35MM	3
Kinescope recording apparatus	4
Projectors, 8MM	5
Projectors, 16MM	6
Projectors, 35MM	7
Projectors, rear	8

Projectors, theatre TV 9
Sound readers 10
Tape, synchronized magnetic ... 11

Acc Electric Mfg Co 1458 Shakespeare Ave New York 52 NY	10
Aerophysics Dev Corp Sub Curtiss-Wright Corp P O Box 699 Santa Barbara Calif	1-2-3-4-11
Affton Industries 406 St Louis Ave Valley Park Mo	5-6-11
Bell & Howell 7100 McCormick Rd Chicago 45 Ill	1-2-3-4-5-6
Belock Instrument Corp 111-01 14 Ave College Point 36 NY	2-3
Benson-Lehner Corp 11830 W Olympic Blvd Los Angeles 64 Calif	2-3
Berndt-Bach Inc Auricon Div 8900 Romaine Ave Hollywood 38 Calif	2-4-6-11
Bodde Screen & Projector Co 11541 Bradley Ave San Fernando Calif	8
Brvg Inc Butler Pa	2-3-4-6-7-9
Buss-Clement-Doughten & Associates 201 B Studio Hill Chester Springs Pa	2-3-4-10
Camera Equipment Co 315 W 43rd St New York 36 NY	1-2-3-4-5-6-7-9-10-11
Camera Mart Inc 1845 Broadway New York 23 NY	10
Cameraflex Corp 1947 Broadway New York City 23 NY	2-3
Canadian Applied Research Ltd 1500 O'Connor Dr Toronto 18 Canada	4
Century Projector Corp 729 7 Ave New York 19 NY	7-8
Cinema-Television Ltd Worsley Bridge Rd Lower Sydenham London SE 26 England	9
Cinematic Developments 2125 32 Ave San Francisco 16 Calif	2-4-6-7-10-11
Coast Canada Ltd 301 Windsor St Halifax Nova Scotia Canada	6
De Flores Co 416 E 30 St New York 16 NY	2
Dejux-Amson Corp Electronic Sales Div 45-01 Northern Blvd Long Island City 1 NY	1-3
Dunlap Electronics 781 9 St Des Moines 13 Iowa	10
Eastman Kodak Co 343 State St Rochester 4 NY	1-2-3-6-9
Electromation Co 1646 18 St Santa Monica Calif	10
Fairchild Camera and Instrument Corp Robbins La Syosset NY	2
Fecker Inc J W 6592 Hamilton Ave Pittsburgh 6 Pa	1-2-3
Federal Mfg & Eng'g Corp 1055 Stewart Ave Garden City NY	8
Flecht Research Inc P O Box 1-F Richmond 1 Va	2-3
Florman & Babbs 48 W 48 St New York 36 NY	10-11
General Precision Lab Inc 21 N Santa Anita Ave Pasadena 8 Calif	8
General Precision Lab Inc 63 Bedford Rd Pleasantville NY	4-6-7-9
Gordon Enterprises 5362 N Cahuenga Blvd N Hollywood Calif	2-3-4-6-7-8-9-10-11
Griffin Inc 154 Clarendon St Rochester 8 NY	5-6
Harwald Co Inc 1245 Chicago Ave Evanston Ill	6-8
Houston Fearless Div Color Corp of America 11801 W Olympic Blvd Los Angeles 64 Calif	2-3-4
Kalart Co Inc Hulteneus St Plainville Conn	6-7
Kane Productions Al 1411 Walnut St Philadelphia 2 Pa	2-4
Kinevox-Hallen Div Electromation Co 1646 18 St Santa Monica Calif	10
Las-Lab Inc Route 32 Sykesville Md	2-3-6-7
Magnasyn Mfg Co 5546 Satsuma Ave N Hollywood Calif	11
Man Development Co Inc 2212 E 12th St Davenport Iowa	7-8
Maurer Inc J A 37-01 31 St Long Island City 1 NY	2-3-4-6-8
Motigraph Inc 4441 W Lake St Chicago 24 Ill	7
National Cine Equipment Inc 209 W 48 St New York 36 NY	2-3-4-10
Neumade Products Corp 250 W 57 St New York 19 NY	10
Pampa Electronics Corp 7354 Frankford Ave Philadelphia 36 Pa	11
Pembres Theatre Supply Corp 1969 S Vermont Ave Los Angeles 7 Calif	7-8-11
Photographic Analysis Inc 13273 Ventura Blvd N Hollywood Calif	2-3
Presto Recording Corp Box 500 Paramus NJ	11
Producers Sales Corp 2704 W Olive Ave Burbank Calif	1-2-3-4-5-6-7
PSC Applied Research Ltd 1500 O'Connor Dr Toronto 16 Canada	3

Radio Corp of America Commercial Electronic Products Front & Cooper Sts Camden NJ	6
Reeves Equipment Corp 10 E 32 St New York 22 NY	5-11
Reeves Soundcraft Corp 10 E 32 St New York 22 NY	11
Shrader Sound Inc 2903 M St NW Washington 7 DC	11
Simplex Equipment Corp 55 La France Ave Bloomfield NJ	7-9
S O S Cinema Supply Corp 602 W 52 St New York 19 NY	2-3-4-6-7-8-9-10-11
Southwestern Industrial Electronics Co 2831 Post Oak Rd Houston 19 Texas	11
Tace Electronics Inc 48 Urban Ave Westbury LI NY	6-7-8
Taylorcraft Corp 185 Murray St Rochester 6 NY	11
TV Specialty Co 330 W 31 St New York 1 NY	1-2-3-4-8
Victor Animatograph Corp Plainville Conn	6
Vought Co P O Box 1350 8907 Melrose Ave Hollywood Hills Calif	1-2-3-4
Wastone Corp 411 8 Ave New York 11 NY	10
Wide Range Recording Corp 327 N Grand Blvd St Louis 3 Mo	10
Wollensak Optical Co 850 Hudson Ave Rochester 22 NY	1-2-5-6

**61—MOTION PICTURE
EQUIPMENT
ACCESSORIES**

Animation equipment	1
Chemical developers	2
Cue markers	3
Editing equipment	4
Film cans	5
Film scrapers	6
Lenses	7
Magnetic filmheads	8
Optical apparatus	9
Printing equipment	10
Processing equipment	11
Projection lamps	12
Projector carbon	13
Projector stands	14
Range finders	15
Rapid development equipment	16
Reels, continuous projection	17
Rewinds, auto	18
Screens, background	19
Screens, projection	20
Special effects equipment	21
Splicing equipment	22
Tape-to-film sound transfer equip	23
Titrating equipment	24
View finders	25
Zoom lenses	26

Acc Electric Mfg Co 1458 Shakespeare Ave New York 52 NY	3-6-22
Aerophysics Dev Corp Sub-Curtiss-Wright Corp P O Box 699 Santa Barbara Calif	8-9-10-25-26
Aerovox Corp 740 Belleville Ave New Bedford Mass	8
Affton Industries 406 St Louis Ave Valley Park Mo	23
Amenic Inc 2421 N Ramsey Springfield Mo	1-2-1
American Molded Products Co 2727 W Chicago Ave Chicago 22 Ill	5-17
Anaco Div Genl Aniline & Film Corp Charles St Binghamton NY	2-16
Applied Magnetics Corp Santa Barbara A P Rldg 804 Goleta Calif	8
Axler Associates Inc 102-42 45 Ave New York 68 NY	9
Hach & Co Simon 636 Greenwich St New York 14 NY	7
Bar-Ray Products Inc 209 25th St Brooklyn 32 NY	11
Bausch & Lomb Optical Co 628 St Paul St Rochester 2 NY	7-9
Bell & Howell 7100 McCormick Rd Chicago 45 Ill	4-5-7-10-22
Belock Instrument Corp 111-01 14 Ave College Point 36 NY	10-11
Berndt-Bach Inc Auricon Div 8900 Romaine Ave Hollywood 38 Calif	5-9-23
Bodde Screen & Projector Co 11841 Bradley Ave San Fernando Calif	14-19-20-21
Brvg Inc Butler Pa	7
Ruhl Optical Co 1009 Beech Ave Pittsburgh 83 Pa	7-9-15-25

Hurke & James Inc 321 S Wabash Ave Chicago 4 Ill	9
Buss-Clement-Doughten & Associates 201 B Studio Hill Chester Springs Pa	1
Camera Equipment Co 315 W 43rd St New York 36 NY	1-3-4-6-7-8-9-10-11-12-13-14-15-17-18-19-20-21-22-23-24-25-26
Camera Mart Inc 1845 Broadway New York 23 NY	4-9-21
Cameraflex Corp 1947 Broadway New York City 23 NY	7
Canadian Applied Research Ltd 1500 O'Connor Dr Toronto 16 Can	11
Century Projector Corp 729 7 Ave New York 19 NY	8-9-14-17
Cinematic Developments 2125 32 Ave San Francisco 16 Calif	4-9
City Chemical Corp 132 W 22 St New York 11 NY	2
Colburn Lab G W 164 N Wacker Dr Chicago 6 Ill	11
Comico Corp 2251 W St Paul Ave Chicago 47 Ill	4-5-17-18-22
Da-Lite Screen Co Warsaw Ind	20
Dallons Labs 5066 Santa Monica Blvd Los Angeles 29 Calif	21
De Flores Co 115 E 30 St New York 16 NY	9-10-19
Dunlap Electronics 781 9 St Des Moines 14 Iowa	23
Du Pont de Nemours & Co E I Wilmington 98 Del	2
Eastman Kodak Co 343 State St Rochester 4 NY	2-4-5-7-12-17-20-22-23
Electric Eye Equipment Co 1948 E Fairchild St Danville Ill	19
Electromation Co 1646 18 St Santa Monica Calif	22
Engineering Developments Inc Forest Ave Middletown RI	7-9
Engis Equipment Co 431 S Dearborn St Chicago 5 Ill	9
Equipto Div Aurora Equipment Co Aurora Ill	14
Evakta Camera Co 705 Bronx River Rd Bronxville 8 NY	7
Fairchild Camera and Instrument Corp Robbins La Syosset NY	11-16
Fecker Inc J W 6592 Hamilton Ave Pittsburgh 6 Pa	4-7-9-20
Federal Mfg & Eng'g Corp 1055 Stewart Ave Garden City NY	11-23
Fro-Tone Corp 106 5th Ave New York 11 NY	8
Fisher Co Inc Oscar P O Box 428 Newburgh NY	11
Fish-Schurman Corp 70 Portman Rd New Rochelle NY	10
Florman & Babbs 48 W 48 St New York 36 NY	3-4-5-6-7-8-22-25
Fourdee Inc 704 W Fairbanks Ave Winter Park Fla	4
Gaertner Scientific Corp 1250 Wrightwood Ave Chicago 14 Ill	9
General Kinetics Inc 555 25 St S Arlington 2 Va	11
Genies Eng'g Co 2151 N Damen Ave Chicago 47 Ill	9
Gordon Enterprises 5362 N Cahuenga Blvd Hollywood Calif	1-2-3-4-5-7-8-9-10-11-12-14-15-16-18-19-20-21-22-23-24-25-26
Gray Research & Development Co Hilliard St Manchester Conn	9
Griewold Machine Works 412 Main St Port Jefferson NY	22
Harwald Co Inc 1245 Chicago Ave Evanston Ill	3-4-14-17-18-20-22
Houston Fearless Div Color Corp of America 11801 W Olympic Blvd Los Angeles 64 Calif	10-11-16-25-26
Kalart Co Inc Hulteneus St Plainville Conn	4-15
Kelsey-Hayes Co 3600 Military Ave Detroit 32 Mich	5
Kinevox-Hallen Div Electromation Co 1646 18 St Santa Monica Calif	22
Kollmorgen Optical Corp 347 King St Northampton Mass	7
Las-Lab Inc Route 32 Sykesville Md	16
Leedal Inc 2929 S Halsted Chicago Ill	10-11
Lenox Instrument Co 2010 Chancellor St Philadelphia 3 Pa	9
Lippa Co Edwin A 1511 Colorado Ave Santa Monica Calif	8
Los Angeles 16 Calif	
Logetronics Inc 600 E Monroe Ave Alexandria Va	19
Mackenzie Electronics 145 W Hazel St Inglewood 3 Calif	21
Magnasyn Mfg Co 5546 Satsuma Ave N Hollywood Calif	8-23
Man Development Co Inc 2212 E 12th St Davenport Iowa	9-11-21
Maurer Inc J A 37-01 31 St Long Island City 1 NY	2-9-10-11-16-23
Metal Fabricators Corp 63 Pond St Waltham 54 Mass	11-16
Metavac Inc 46-68 162 St Flushing 68 NY	9

Michigan Electronics Inc
854 N Rockwell St Chicago 22 Ill 1

Morse Instrument Co
20 Clinton St Hudson Ohio 11-16

Motigraph Inc
4441 W Lake St Chicago 24 Ill 12-14

National Carbon Co
Div Union Carbide & Carbon Corp
30 E 42 St New York 17 NY 13

National Cine Equipment Inc
209 W 48 St
New York 36 NY 1-4-7-9-10-21-24-25-26

Neumade Products Corp
250 W 57 St
New York 19 NY 3-4-5-6-14-18-22

Norton Associates Inc
P O Box 96 Garden City NY 8

Optical Coating Lab Inc
1035 Sebastopol Rd Santa Rosa Calif 9

Optical Gaging Products Inc
26 Forbes St Rochester 11 NY 9

Optonic Research Inc
1374 Massachusetts Ave
Cambridge 38 Mass 9

Opto Eng'g Co
3524 W Washington Blvd
Los Angeles 18 Calif 9

O & S Research Inc
1811 Hannard St Riverton NJ 9

Pacific Optical Corp
120 Glasgow Ave
Inglewood 1 Calif 7-9-25-26

Pacific Universal Products Corp
168 Vista Ave Pasadena 8 Calif 7

Pampa Electronics Corp
7354 Frankford Ave Philadelphia 36 Pa 8

Par Products Corp
602 Colorado Ave
Santa Monica Calif 1-7-9-10-16-25

Perkin-Elmer Corp
Main Ave Norwalk Conn 26

Photobell Co
43 Vesey St New York 7 NY 18

Presto Recording Corp
Box 500 Paramus NJ 23

Prestotool Mfg Corp
37-27 33 St Long Island City 1 NY 22

Producers Sales Corp
2704 W Olive Ave
Burbank Calif 1-9-10-21-24

Pye Canada Ltd
82 Northline Rd
Toronto 16 Ontario Canada 26

Rangertone Inc
73 Winthrop St Newark 4 NJ 4

Raven Screen Corp
124 E 124 St New York 35 NY 19-20-21

Reed & Reese Inc
717 N Lake Ave Pasadena 6 Calif 8

Reeves Equipment Corp
10 E 52 St New York 22 NY 21

Robins Industries Corp
214-26 41 Ave Bayside 61 NY 5-26

Rollab Studios
Walnut Tree Hill Sandy Hook Conn 4

Rosen Labs
29 Moore St Brooklyn 6 NY 1-4-22

Shepard Labs Inc
Broad St at Park Ave Summit NJ 22

Simplex Equipment Corp
55 La France Ave Bloomfield NJ 14

Simpson Optical Mfg Co
3200 W Carroll Ave Chicago 24 Ill 7-9

S O S Cinema Supply Corp
602 W 52 St 1-3-4-5-6-7-8-9-10-11-12-13-14-
New York 19 NY 15-16-17-18-19-20-21-22-
23-24-25-26

Sound Screen Suppliers Inc
762 Broadway New York 3 NY 19-20

Southwest Products Inc
Alamo Downs Rt 4 San Antonio Texas 2

Stancil-Hoffman Corp
921 N Highland Ave Hollywood 88 Calif 23

Stewart Trans-Lux
1111 Sepulveda Blvd Torrance Calif 19-20

Strong Electric Corp
87 City Park Ave Toledo 1 Ohio 9-12

Taylorcel Corp
185 Murray St Rochester 6 NY 5-17-23

Technikote Corp Inc
63 Seabring St Brooklyn 31 NY 20

Telectro Industries Corp
35-18 37 St Long Island City 1 NY 23

Terris Div Consolidated Siphon Supply Co
22 Wooster St New York 13 NY 24

Texta Mfg Co
10122 E Rush St El Monte Calif 9

Texas Instruments Inc
6000 Lemmon Ave Dallas 9 Texas 9

Tinsley Labs Inc
2526 Grove St Berkeley 4 Calif 9

TV Development Corp
187-61 Hollis Ave Jamaica 23 NY 8

TV Specialty Co
350 W 31 St
New York 1 NY 1-4-5-8-11-12-14-
16-19-20-21-24

Uhler Cine Machine Co
15762 Wyoming Ave Detroit 38 Mich 10

Vocalite Screen Corp
19 Debevoise Ave Roosevelt NY 19-20

Vought Co
P O Box 1350 8907 Melrose Ave
Beverly Hills Calif 9-25

Westrex Corp
111 8 Ave New York 11 NY 4-8-23

Wide Range Recording Corp
527 N Grand Blvd St Louis 3 Mo 8-23

Williams Brown & Earle Inc
904 Chestnut St Philadelphia 7 Pa 21

Winder Aircraft Corp of Florida
P O Box 2397 Drane Field Lakeland Fla 5

Wullensak Optical Co
850 Hudson Ave Rochester 22 NY 7-9

Zenith Optical Lab
1940 Great Neck Rd Copiague LI NY 9

Zoomar Inc
55 Sea Cliff Ave Glen Cove NY 9-25-26

62—MOTION PICTURE FILM

Film, magnetic stripe 1
Film, raw stock 2
Film, storage 3

Camera Equipment Co
315 W 43rd St New York 36 NY 1-2-3

Colburn Lab G W
164 N Wacker Dr Chicago 6 Ill 1-3

Du Pont de Nemours & Co E I
Wilmington 98 Del 2

Eastman Kodak Co
343 State St Rochester 4 NY 1-2

Gordon Enterprises
5362 N Cahoonza Blvd N
Hollywood Calif 1-2-3

Harwald Co Inc
1245 Chicago Ave Evanston Ill 3

Neumade Products Corp
250 W 57 St New York 19 NY 3

Reeves Soundcraft Corp
10 E 52 St New York 22 NY 1

S O S Cinema Supply Corp
602 W 52 St New York 19 NY 1-3

63—MOTORS & GENERATORS

Alternators 1
Blowers 2
Brush holders 3
Brushes, motor 4
Clutches 5
Commutators 6
Contacts, motor & generator 7
Controls 8
Converters, rotary 9
Couplings, flexible 10
Couplings, rigid 10
Dynamos 12
Engines, diesel 13
Engines, gas 14
Fans 15
Generators, AC 16
Generators, DC 17
Generators, hand-crank 18
Generators, high freq. power 19
Motors, AC 20
Motors, clock 21
Motors, control 22
Motors, DC 23
Motors, fractional hp 24
Motors, hysteresis 25
Motors, miniature 26
Motors, phonograph 27
Motors, servo 28
Motors, synchronous 29
Motors, timing 30
Motors, turntable 31
Motors, universal 32
Power plants 33
Rotors 34
Servos 35
Starters 36
Stators 37
Synchros 38
Wedges, woodslot 39

Accurate Electronics Corp
169 S Abbe Rd S E Elyria Ohio 3

Actuator Prods Corp
Main St Box 172 W Concord Mass 5

Advanced Instrument Corp
1709 F St St Belmar NJ 35

Advanced Products
88 Broadway
North Haven Conn 5-20-21-24-25-26-29-30

Aeromotive Eng'g Products Ltd
5257 Queen Mary Rd
Montreal Que Canada 1-2-16-17-25-26-29

Aerophysics Dev Corp Sub Curtiss-Wright
Corp P O Box 689
Santa Barbara Calif 6-7-8-9-16-17-22-25-
26-28-29-30-32-35

Airborne Accessories Corp
1414 Chestnut Ave
Hillside 5 NJ 20-23-24-28

Air Controls Inc
2310 Superior Ave Cleveland 14 Ohio 2-15

Aircraft Radio Corp
Boonton NJ 12

Airbyte Electronics Co
535 Avenue A Bayonne NJ 3-6-7

Air-Marine Motors Inc
369 Bayview Ave
Amityville NY 2-13-20-22-24-25-26-29

Air Reduction Sales Co Div Air Reduction Co
150 E 42 St New York 17 NY 16-17

AIRResearch Mfg Co Div Garrett Corp
3851 Sepulveda Blvd
Los Angeles 43 Calif 17-23-24-
26-28-35

Allard Instrument Corp
146 E 2 St Minessa LI NY 20-23-26

Allen-Bradley Co
136 W Greenfield Ave
Milwaukee 4 Wis 8-22-30

Alliance Mfg Co
Lancaster Blvd
Alliance Ohio 15-20-21-23-24-27-30-31

Allis Chalmers Mfg Co
934 S 70th St
Milwaukee 1 Wis 1-8-9-13-14-16-17-
19-20-22-23-25-36

Allis Co Linds
427 E Stewart St
Milwaukee 1 Wis 1-8-16-17-19-20-
22-23-24-27

Alto Scientific Co
855 Commercial St Palo Alto Calif 35

Amco Eng Co
7333 W Ainslie St Chicago 31 Ill 2

American Brass Co
414 Meadow St Waterbury 88 Conn 3

American Electronics Inc
1-2-3-18-19-
655 W Washington Blvd
Los Angeles 15 Calif 17-19-20-23-24-25-
26-29-29-35-35

American Gyro Corp
3030 Nebraska Ave
Sunnyvale Calif 20-23-24

American Measurement & Control Inc
240 Alstair St Waltham 54 Mass 25-35

American Rectifier Corp
95 Lafayette St New York 13 NY 3

Amelo Corp
4333 Ravenwood Ave
Chicago 13 Ill 21-23-26-30

Amphex Div Chrysler Corp
P O Box 3718
Detroit 31 Mich 5-6-7-11

Anatron/Div Endevco Corp
45 W Union St Pasadena Calif 22

Arma Div American Bosch Arm Corp
Garden City NY 35

Ashland Electric Products Inc
3202 Queens Blvd
Long Island City 1 NY 1-2-13-20-24-
25-26-29-31

Atchley Inc Raymond
2340 Sawtelle Blvd Los Angeles 61 Calif 26

Automatic Switch Co
Hanover Rd Flushing Park NJ 9

Barker & Williamson Inc
Canal & Heaver Sta Bristol Pa 11

Bailey Electric Co
Box 269 Rt 143 Highland Ill 20-28-32

Beckman Helipot Corp
Newport Beach Calif 16-25

Bekey Electric Co
1227 S Main St
Los Angeles 15 Calif 1-16-17-19-20-23-25-
24-25-28-29-32

Bendix Aviation Corp Red Bank Div
Rt 35
Patonsville NJ 1-9-12-16-17-
19-20-23-24-33

Bendix Aviation Corp
1104 Fisher Bldg
Detroit 2 Mich 1-12-16-17-29-
20-25-36-38

Berno Engineering Corp
2320 S Tibbs Ave Indianapolis 41 Ind 8

Bodine Electric Co
2254 W Ohio St
Chicago 1 Ill 20-22-23-24-25-26-
27-28-29-30-31-32

Bogue Electric Mfg Co
52 Iowa Ave
Paterson 3 NJ 8-9-12-16-17-18-19-
20-22-23-28-29-33

Borg Equip Div George W Borg Corp
120 S Main St Jamesville Wisac 24-29

Brailsford & Co
670 Milton Rd Rye NY 23-26-30

Brevol Products Corp
601 W 26th St New York NY 20-21-26-31

Hutcher Co L H
3628 E Olympic Blvd Los Angeles Calif 17

Carter Motor Co
7211 W George St Chicago 13 Ill 1-9-12-16-17-
Caterpillar Tractor Co
Peoria Ill 13

Cavitron Electron Oscillator Co
Div Short Wave Plastic Forming
355 N Newport Blvd Newport Beach Calif 19

Cedar Eng'g Inc
5806 W 36 St
Minneapolis 16 Minn 23-25-26-28-29

CEICO Constantine Eng'g Labs Co
P O Box 555 Mahwah NJ 24-25-26-28

Cinema-Television Ltd
Worsley Bridge Rd Lower Sydenham
London SE 26 England 33

Clayco Fan Co
Kalamazoo Mich 2-16

Clark Controller Co
1146 E 152 St Cleveland 3 Ohio 8-22-36

Clevite Harria Products Inc
6545 Carnegie Ave Cleveland 3 Ohio 10

Clifton Precision Products Co
9014 West Chester Pike
Upper Darby Pa 23-28-35-38

Collector Corp
304 E 45th St New York 17 NY 3

Columbia Electric Mfg Co
4519 Hamilton Ave Cleveland 14 Ohio 16-17

Communication Measurements Lab
350 Leiland Ave Plainfield NJ 16

Conn Telephone & Electric Corp
70 Britannia St Meriden Conn 18-24

Consolidated Diesel Electric Corp
880 Canal St
Stamford Conn 1-16-17-20-23-24-33-36

Consumer Industrial Products P O Box 128 Cuyahoga Falls Ohio	24-32	Fluidyne Eng'g Corp 426 N 7 St Minneapolis 6 Minn	7	Infra Electronic Corp 47 Factory Pl Cedar Grove NJ	23-24-26-27-31
Continental Electric Co 395 Ferry St Newark 6 NJ	1-12-16-17-19- 20-23-29-33	Ford Instrument Co Div Sperry Rand Corp 31-10 Thomson Ave Long Island City 1 NY	10-26-28-29-30-35-38	Ingersoll-Rand Co 11 Broadway New York 4 NY	13
Controls Co of America 5035 Searing Ave Schiller Park Ill	24-26-29-31	Formaflex Inc 23601 Hoover Rd Warren Mich	5	Instrument Development Labs Inc 67 Avenue St Attleboro Mass	6-9
Cornelius Co 550 39 Ave NE Minneapolis 21 Minn	20-23	Garrett Corp Aircorsearch Mfg Co Div 9651 Sepulveda Blvd 1-2-8-14-15-16-17-20-23- Los Angeles 45 Calif	24-25-26-28-29-33-35	Insulation Mfg Corp 565 W Washington Blvd Chicago 39 Ill	39
Cramer Controls Corp Centerbrook Conn	20-21-23-26-29-30	General Controls Co 801 Allen Ave Glendale 1 Calif	2-8-20-23-24-26-35	Insuline Corp of America 186 Granite St Manchester NH	11
Curtiss-Wright Corp Electronics Div 531 Central Ave Carlstadt NJ	35	General Electric Co Apparatus Sls Div 1 River Rd Schenectady 5 NY	9-12-16-17-24-28-29	International Register Co 2620 W Washington Blvd Chicago 11 Ill	21-29-30
Daico Products Inc P O Box 136 Columbus Neb	25	General Electric Co Industry Control Dept P O Box 2498 Roanoke Va	8-36	Jack Scientific Instrument Co Bill 143 Cedrus St Solana Beach Calif	9-17-20-23-24-28
Dalmo Victor Co Div Textron Inc 1516 Industrial Way Belmont Calif	35	General Electric Co Specialty Control Dept P O Box 812 Waynesboro Va	22	James International Corp 855 Ave of the Americas New York NY	15-24-27-31
Dalmotor Co Div Dalmo Victor Co Div Textron Inc 1325 Clay St	1-9-12-16-17-20- 23-25-26-28-29	General Findings & Supply Co Industrial Div Leach & Garner Bldg Attleboro Mass	7	Janeite Electric Mfg Co 8350 Lehigh Ave Morton Grove Ill	22
Duro Industries Inc Gyro Dynamics Div 2151 E Rosecrans Ave El Segundo Calif	20-23-25	General Industries Co Oliver & Taylor Sta Elyria Ohio	20-23-21-27-31	Joy Mfg Co 333 Oliver Bldg Pittsburgh 22 Pa	2-15
Dayton Electric Mfg Co 126 S Oakley Blvd Chicago 12 Ill	2-15-17-20-23-24-33	General RE Fittings Inc 702 Beacon St Boston 15 Mass	11	Kato Eng'g Co 1415 1 Ave Mankato Minn	1-16-17-19-20-23-29
Dein & Henson Research Inc 16 Richmond St Clifton NJ	2	Georator Corp P O Drawer 472 Manassas Va	1-9-16-17-19-33	Katolight Corp 1st Ave at Chestnut Mankato Minn	1-9-16-17-19-20-23-33
Deleo Appliance Div GMC P O Box 230 Rochester 1 NY	23-24-26-28-31-35-37-38	Geot & Co Pulp E 4668 N Clark St Chicago 40 Ill	1-8-9-12-16-17-19-20- 22-23-24-26-28-29-35-38	Kearfott Co Inc 1378 Main Ave Clifton NJ	20-24-26-26-28-35-38
Dial Products Co 9 Ave E Bayonne NJ	5-10	Gibson Electric Co Box 563 Delmont Pa	7	Kelsey-Hayes Co 3600 Military Ave Detroit 32 Mich	1
Diehl Mfg Co Finderne Ave Somerville NJ	20-23-23-24-26-28	Glasco-Avery Inc 45 Aurelius Ave Auburn NY	20-24-29	Keystone Carbon Co 1935 State St St Marys Pa	4
Distributors Corp Albertson Ave Albertson LI NY	5	Gluc Industries Inc 174 Stanley Ave Dayton 4 Ohio	5-8-9-16-17-20-23-23- 24-25-26-28-29-30-35	Kinetics Corp 410 S Cedros Ave Solomon Beach Calif	6
D & R Ltd 402 E Gutierrez St Santa Barbara Calif	1-9-16	G-M Laboratories Inc 4300 N Knox Ave Chicago 41 Ill	25-28-28-35	Koultronic Fan Co Carter Rd at Rosedale Princeton NJ	2-15
Dumore Co 1300 17 St Racine Wis	2	Gordon Enterprises 5352 N Columbus Blvd N Hollywood Calif	4-9-24-25-26-28-29-30-38	King-Seely Corp Signal Electric Div Menominee Mich	15
Dynamite Div Eaton Mfg Co 3307 14 Ave Kenosha Wis	24	Graphite Metallizing Corp 1002 Nepperhan Ave Yonkers NY	3-4-5-6-7	Kollman Instrument Corp Sub Standard Coil Products 80-08 45 Ave Elmhurst 73 NY	26-28-29-38
Dynamic Air Eng'g Inc 5412 Main Ave Los Angeles 1 Calif	2-15-20-23-24-32	Great Lakes Electric Mfg Co 17 S Desplina St Chicago 6 Ill	9-12-16-17	Koppers Co Koppers Bldg Pittsburgh 18 Pa	10
Dynamic Instrument Corp 59 New York Ave Westbury NY	28-35	Greenleaf Mfg Co Div Mandrel Industries 714 Maplewood Industrial Ct St Louis 17 Mo	23-35	Kroger Eng'g & Devel Co 3022 N 77 Ct Elmhurst Park 35 Ill	2-9-12-17-23-24-26-30
Eclipse-Pioneer Div Dennis Aviation Corp Teterboro NJ	22-26-28-35-38	Green Rectifier Co 1-10 30 St Fairlawn NJ	8	Lamb Electric Co Lake St Kent Ohio	2-20-22-23-24-28-29-32-35
Edison Industries Thomas A Instrument Div McGraw-Edison Co 5 Lakewood Ave W Orange NJ	35-38	Hallamore Electronics Co 8352 Brookhurst Ave Anaheim Calif	1-8	Laminations Co P O Box 13 Stamford Conn	34-37
Ekor Inc 4235 N North Ave Chicago 39 Ill	1-3-9-12-16-17-19-20- 23-24-29-32-34-37	Haller Raymond & Brown Circleville Rd 7-15-16-17-18-19-20-22-23-24- State College Pa 26-25-28-29-30-31-32-33-35-38	3	La Moree C D 2433 Birkdale St Los Angeles 31 Calif	39
Ekor Inc Div Jacobs Co 815 W Walnut St Owensby Ill	1-2-6-9-12-16-17-18- 20-23-21-26-29-32-34-37	Hansen Mfg Co RR 1 Princeton Ind	21-23-26-29-30	Lamaun Corp Lamaun St Syracuse 1 NY	2
Electrical Communications Inc 765 Clementina St San Francisco 3 Calif	4	Hanson Van Winkle Munning Co Church St Matawan NJ	17-29	Langevin Mfg Corp 47-37 Austell Pl Long Island City 1 NY	9
Electrical Eng'g & Mfg Corp 4612 W Jefferson Blvd Los Angeles 16 Calif	20-28-24	Harwood Electronics Co 466 W Superior St Chicago 10 Ill	10	Leach Corp-Inst Div 18435 Susans Rd Compton Calif	16-17-19-33
Electric Specialty Co 211 South St Stamford 1 Conn	12-16-17-19 20-23-24-25-28	Haydon Co A W 232 N Elm St Waterbury 20 Conn	20-21-22-23- 25-26-28-30	Lear Inc 110 Ionia Ave NW Grand Rapids 2 Mich	16-17-20-23-24-26- 28-29-34-35-37-38
Electrical Specialty Co 158 11 St San Francisco 3 Calif	4	Haydon Div General Time Corp 245 E Elm St Torrington Conn	20-21-22-33- 24-25-26-29-30	Leland Electric Co Div AMF 1501 Webster St Dayton 1 Ohio	16-17-19-20-23-24
Electric Inst Div General Dynamics Eastern Point Rd Groton Conn	2	Hays Mfg Co 803 W 12th St Erie Pa	3	Leland Electric Co Aircraft Products Plant 740 E National Rd Vandalia Ohio	1-9-16-17-19-20-23-24
Electric Indicator Co Camp Ave Stamford Conn	1-2-4-16-17-20-22-23- 24-25-26-28-29-32-38	Heinze Electric Co Div Consolidated Electric Lamp 685 Lawrence St Lowell Mass	2-20-23-24-26	Lincoln Electric Co 22801 St Clair Ave Cleveland 17 Ohio	16-17-20
Electric Machinery Mfg Co 800 Central Ave Minneapolis 13 Minn	1-3-4-8-16-18-29-33-37	Heinz Mueller Eng'g Co 1906 N Cleve Ave Chicago 39 Ill	1-2-3-4-9-12-16- 17-18-20-23-24-26-32-34	Litton Eng'g Co 2450 W Hubbard St Chicago 12 Ill	19
Electric Motors & Specialties King & Hampsher St Garrett Ind	1-20-24	Helipot Corp Newport Beach Calif	28-35-38	Litton Industries of Calif 336 N Foothill Rd Beverly Hills Calif	35
Electric Products Co 1725 Clarkstone Rd Cleveland 12 Ohio	1-3-4-6-16-17-19-20-23-29	Henrite Products Corp 2514 S 3 St Ironton Ohio	4	Litton Industries of Md Inc 4910 Calvert Rd College Park Md	85
Electric Trading Co 313 Canal St New York 13 NY	2-15	Hickok Electric Instrument Div 10514 Dupont Ave Cleveland 8 Ohio	19	Lord Mfg Co 1635 W 12 St Erie Pa	10
Electro Contacts Inc Main St Otterville Mass	4-7	Hirschman-Pohle Co 120 Lent Ave Leroy NY	15	L & R Mfg Co 577 Elm St Arlington NJ	24
Electro-Mechanical Div General Riveters Inc 785 Hertel Ave Buffalo 7 NY	4	Holtzer Cabot Div Nat'l Pneumatic Co 125 Amory St Boston 19 Mass	1-12-16-17-18- 22-23-24-25-26- 28-29-30-34-37	Luther Mfg Co 7312 Varna Ave N Hollywood Calif	1-2-20-22-23-24-25-26- 28-29-30-34-35-37-38
Electric Specialty Co 8121 San Fernando Rd Los Angeles 39 Calif	9-12	Hommelco Div Textron Inc 67 Riverdale Ave Port Chester NY	16-33	Lux Clock Mfg Co Johnnath St Waterbury Conn	29-30
El Products Corp P O 11 41 New York 63 NY	30	Hoover Electric Co 2100 S Stoner Ave Los Angeles Calif	18-19-20-22-23-24-25-26- 28-29-30-32-34-35-36-37-38	McGraw Edison Co Power Tool Div 110 Main St Burlington Vt	2-6-20-23-24-25-28-29-32
Emerson Electric Mfg Co 8100 Florissant Ave St Louis 21 Mo	20-23-24-25-26	Harlieke Co Wm I 266 Summer St Boston 10 Mass	1-9-16-17-19	McLean Eng'g Labs P O Box 228 70 Washington Rd Princeton NJ	2-15
Emerson Plastics Corp Seabury Ave & Butler Pl Bronx 61 NY	3	Howard Industries Inc 1760 State St Racine Wis	16-17-20-23-24-25-29-32	Madigan Corp 526 Mineola Ave Carle Place NY	12
Engineering Associates 434 Patterson Rd Dayton 9 Ohio	9	Howell Electric Motors Co 408 N Roosevelt Howell Mich	20-22-24	Magnetic Amplifiers Inc 632 Tinton Ave New York 55 NY	8-35
Ernst & Affiliates W Arthur 825 Hayes Ave Racine Wis	16-17-18-19-20-22-23- 24-25-26-28-29-31-32	Humphrey Inc 2808 Canon St San Diego Calif	35	Makepeace Div D E Englehard Industries Inc Pine & Denham Sta Attleboro Mass	7
Fairbanks Morse & Co 600 S Michigan Ave Chicago 5 Ill	1-13-14-16-17-20-23-24-20-38	Hupp Electronics Co Div Hupp Corp 743 Circle Ave Forest Park Ill	26	Marble-Card Electric Corp Chestnut Mich	20
Fairechild Electrical Products Div 110 Main St Burlington Vt	20-22-23-24-25- 28-29-31-32	Ideal Electric & Mfg Co 300 E 1 St Mansfield Ohio	1-3-6-8-16-17-19- 20-22-23-29-34-36-37	Marvel-Schebler Products Div Borg-Warner Corp Box 863 Decatur Ill	86
Fasco Industries Inc 255 N Union St Rochester 2 NY	2-15-20-24-26-27	I.L.G. Electric Ventilating Co 2850 N Pulaski Rd Chicago 41 Ill	2-15	Master Appliance Mfg Co 530 4 St Racine Wis	2-20-23-24-32
Feedback Controls Inc 899 Main St Waltham 54 Mass	28-35	Induction Motors Corp 570 Main St Westbury LI NY	1-2-12-16-17-20-22-23-24-25- 26-27-28-29-30-31-35-38	Master Electric Co 126 Davis Ave Dayton 1 Ohio	16-17-20-23-24-29
Fen-Tone Corp 106 5th Ave New York 11 NY	20-24-27-29-32	Industrial Research Labs Div Aeronca Mfg Corp Hilltop & Fredericks Rds Baltimore Md	35	Melpar Inc 3000 Arlington Blvd Falls Church Va	85
Fidelity Electric Co 332 N Arch St Lancaster Pa	1-16-17	Ind Test Equip Co 55 E 11th St New York 3 NY	16-35	Merkle Korff Gear Co 213 N Morgan St Chicago 7 Ill	24-30
				Midwestern Instruments P O Box 7186 Tulsa Okla	28-35
				Midwest Molding & Mfg Co Gurnee Ill	3-4

Minn-Honeywell Boston Div
1400 Soldiers Field Rd
Boston 35 Mass 20-25-35-38

Minn-Honeywell Regulator Co
Aeronautical Div
2690 Ridgway Ave
Minneapolis 13 Minn 8-20-22-23-24-
25-26-28-29-35

Minor Rubber Co
Ackerman St Bloomfield NJ 10

Modern Industries Inc
2601 Colorado Ave Santa Monica Calif 8

Motograph Inc
4441 W Lake St Chicago 24 Ill 17

Motordyne Inc
2651 S Myrtle Ave 2-3-15-16-17-20-22-23-24-
Munrovia Calif 25-26-28-29-32-34-35-37-38

Motoresearch Co
1600 Junction Ave
Racine Wis 1-16-17-19-20-24-26-31-33

National Aircraft Corp
3411 Tulare Ave Burbank Calif 8

National Carbon Co
Div Union Carbide & Carbon Corp
30 E 42 St New York 17 NY 4-7

National Cine Equipment Inc
205 W 48 St New York 36 NY 29

National Company Inc
61 Sherman St Malden 48 Mass 10-11

National Pneumatic Co Inc
125 Amory St 18-20-22-23-24-
Boston 19 Mass 25-26-28-29-30

Newscomb Spring Corp
177 E Hawthorne Ave Valley Stream NY 3

Nemeth Inc
2223 S Carmelina Ave
Los Angeles 64 Calif 30

Norden-Ketay Corp
Commerce St Stamford Conn 28-35-38

Norden-Ketay Corp
Precision Components Div
6 Jericho Tpk Commack NY 28-25-38

Ohio Carbon Co
12508 Heres Rd Cleveland 11 Ohio 4

Ohio Crankshaft Co Toledo Div
3800 Harvard Ave Cleveland 5 Ohio 19

Onan & Sons D W
2515 University Ave SE
Minneapolis 14 Minn 14-10

Opad Electric Co
69 Murray St New York 7 NY 8

Oster Mfg Co John Avionic Div
11 Main St 2-16-17-20-22-23-24-25-
Racine Wis 26-28-29-30-32-35-38

Peerless Electric Co
1401 W Market St
Warren Ohio 2-3-4-6-15-17-20-23-24

Pasco Products Div Borg Warner Corp
24700 N Miles Rd Bedford Ohio 2-15-23

Pioneer Electric Motor Corp
6841 W Dickens Ave
Chicago 39 Ill 14-16-17-33

Piqua Machine & Mfg Co
441 S College St Piqua Ohio 2-23-24

Polyphase Instrument Co
E 1 St Bridgeport Pa 9

Poly-Scientific Corp
College Ave Blackburg Va 5-6

Portable Electric Tools Inc
320 W 83 St Chicago 20 Ill 24

Precision Inc
730 N Lindsale Ave
Minneapolis 11 Minn 34-37

P S P Eng'g Co Div Induction Motors
8608 Otis St South Gate Calif 35-38

Radio Receptor Co/Div GIC
240 Wythe Ave Brooklyn 11 NY 19

Rae Motor Corp
2009 Kewaunee St Racine Wis 23-24-32

Rae Co J B
1723 Cleveland Blvd
Santa Monica Calif 30

Ready Power Co
11231 Freud Ave Detroit 14 Mich 13-14-33

Redmond Co
Monroe St 1-2-12-16-18-20-23-24-
Owosso Mich 26-27-28-31-32-34-37

Reed & Reese Inc
117 N Lake Ave 1-2-5-20-23-25-26-
Pasadena 6 Calif 28-29-30-35-38

Reliance Electric and Eng'g Co
24701 Euclid Ave 1-8-9-16-17-20-22-
Cleveland 17 Ohio 23-24-28-34-37

Remington Rand Univac
Div Sperry Rand Corp
318 4 Ave New York 10 NY 35

Reynolds Electric Co
3000 River Rd River Grove Ill 16-24

Ripley Co
1 Factory St Middletown Conn 2-15

Robbins & Myers Inc
1345 Laguna Ave
Springfield Ohio 1-20-23-24-32

Robertshaw-Fulton Co Acro Div
Columbus 16 Ohio 24

Robinette Co W C
802 Fair Oaks Ave S Pasadena Calif 35

Rotating Components Inc
267 Green St 1-2-15-16-20-22-
Brooklyn 22 NY 24-25-26-28-29-31

Rotron Mfg Co
Schoonmaker Lane
Woodstock NY 2-15-20-24-26

Rubbercraft Corp of Calif
1800 W 220 St Torrance Calif 10

Rue Products
1628 Venice Blvd Venice Calif 33

St Marys Carbon Co
State St St Marys Pa 3-4

Sungamo Electric Co
11th & Converse 3-9-12-16-17-18-19-20-
Springfield Ill 21-23-24-25-26-29-30

Scientific Coil Co
5619 Broadway Chicago 40 Ill 20-22-23-26

Seruggs Loyd Co
P O Drawer 232
Festus Mo 20-23-24-27-31-32

Seager Standard Carbon Co
291 Church St New York 13 NY 3-4-6

Servomechanisms Inc
1800 Aviation Blvd 2-20-23-24-26-26-
Hawthorne Calif 28-29-30-35-30

Servomechanisms Inc
1200 Prospect Ave
Westbury NY 5-8-16-22-25-
26-28-29-35-38

Servonics Inc
822 N Henry St Alexandria Va 35

Servo Systems Co
55 Meeker Ave Newark 12 NJ 22-28-35-38

Servo-Tek Products Co
1086 Goffe Rd
Hawthorne NJ 2-8-17-22-23-24-26-28-32-35

Shand & Jurs Co
2600 8th St Berkeley 10 Calif 8

Shepard Co R H
101 Philadelphia St Hanover Pa 13-33

Sigmadyne of Conn
P O Box 869 Port Chester NY 8

Sittler Corp
18 N Ada St Chicago 7 Ill 4-6

Slip Ring Co of America
3612 W Jefferson Blvd
Los Angeles 16 Calif 4

Small Motors Inc
2076 Elston Ave 2-12-16-17-20-22-
Chicago 14 Ill 23-24-26-28-29-32-35-38

Smith Corp A O
531 N 4 St Tipp City Ohio 20-23-24

S O S Cinema Supply Corp
802 W 52 St 2-9-15-16-17-20-
New York 19 NY 22-24-25-29-32-33

Specialties Inc
Skunks Misery Rd Syosset L I NY 20

Spectralab Instruments
404 N Halsted Ave Pasadena Calif 19

Speedway Mfg Co
1834 S 52nd Ave
Cicero 50 Ill 20-23-23-31-32

Stackpole Carbon Co
81 Murry Pa 4

Stancil-Hoffman Corp
821 N Highland Ave
Hollywood 39 Calif 9-23-29

Standard Electric Mfg Co
Haddon Ave W Berlin NJ 2

Star-Kimble Motor Div
Miehle Printing Press & Mfg Co
200 Bloomfield Ave
Bloomfield NJ 16-17-19-20-23

Steele Electric Motors Inc
5401 Telegraph Rd 8-20-22-24-29-38
Los Angeles 22 Calif

Stewart & Stevenson Service
4516 Harrisburgh Blvd
Houston 1 Texas 16-17

Technical Electronics Corp
408 Ince Blvd Culver City Calif 23-29

Technicraft Labs Inc
Thomaston-Waterbury Rd
Thomaston Conn 10

Techniques Inc
52 Jackson Ave Hackensack Nj 6

Tele-Dynamics Inc
518 & Parkside Ave Philadelphia 4 Pa 6-12

Telkor Inc
N Murray Ridge Rd Elyria Ohio 16-23

Teller Co
Box 909 Butler Pa 22-25

Thompson Products Inc Electronics Div
2196 Clarkwood Rd
Cleveland 3 Ohio 1-28-33

Times Facsimile Corp
540 W 58 St New York 19 NY 30

Toledo Commutator Co
1101 S Chestnut St Owasso Mich 6

Transcoil Corp
Worcester Pa 16-22-28-38

United Aircraft Products Inc
116 Bulander Ave Dayton 8 Ohio 2

United Electric Controls Co
85 School St Watertown 72 Mass 4

Universal Electric Co
300 E Main St
Owosso Mich 2-4-15-20-23-26-32

Universal Motor Co
1552 Harrison St
Oshkosh Wis 1-13-14-16-17-18-33

U S Electrical Motors Inc
200 E Slauson Ave Los Angeles 54 Calif 20

U S Graphite Co Div Wickes Corp
1621 Holland Ave Saginaw Mich 4-7

Vare Mfg Co
2201 Walnut St
Garland Texas 1-8-9-13-14-16-17-19-20-22-33

Vestrol Eng'g Inc
P O Box 1089 Stamford Conn 8

Vocalline Co of America
Coulter St Old Saybrook Conn 29-30

Wachline Inc
35 S St Clair St
Dayton 2 Ohio 8-16-22-28-35

Waco Inc
2032 Broadway
Santa Monica Calif 20-23-26-28-29

Waldorf Instrument Co Div F C Huyck & Sons
Park Ave
Huntington Sta NY 5-10-11-22-26-28-35-38

Waltham Precision Instru Co
221 Crescent St Waltham 53 Mass 28

Waltham Screw Co
77 Rumford Ave Waltham 54 Mass 3

Warren Corp J C
21 Hance Ave Freeport NY 22-28-30

Warwick Mfg Corp
7300 N Lehigh Ave Chicago 31 Ill 18

Wasche Electric Co B A
9027 Shell Rd 1-2-3-4-16-17-18-
Cincinnati Ohio 20-23-24-35-37-38

West Coast Research Corp
2371 1/2 Westwood Blvd
Los Angeles 64 Calif 8-38

Western Gear Corp
Electro Products Div 1-2-3-4-9-12-15-16-
17-18-19-20-21-22-23-
132 W Colorado St 24-25-26-27-28-29-30-
Pasadena 1 Calif 31-32-33-34-35-36-37-38

Westinghouse Electric Corp
P O Box 868 1-3-4-6-8-10-12-15-16-17-19-
Pittsburgh 30 Pa 20-22-23-24-29-30-31-32-36

Western Electrical Instrument Corp
614 Frelinghuysen Ave
Newark 12 NJ 16-17

White Dental Mfg Co S S Industrial Div
10 E 40 St New York 16 NY 10

Wincharger Corp
E 7 & Division St 1-9-12-16-17-18-
Sioux City 2 Iowa 19-23-24-32-33

Winder Aircraft Corp of Florida
P O Box 2397 Drane Field
Lakeland Fla 18

Wind Turbine Co
E Market St & PRRW West Chester Pa 34

64—NAVIGATION SYSTEMS

Aircraft landing 1
 Calling systems, selective 2
 Depth sounders 3
 Direction finding 4
 Distance measuring equipment 5
 Inertial 16
 Infra Red 17
 Loran 6
 Omirange 7
 Radar 8
 Radio 9
 Raydist 10
 Sea rescue 11
 Shoran 12
 Sofar 13
 Sonar 14
 Transponders 15
 Tacan (& other similar systems) 18

AC Electronics Div GMC
1925 E Kenilworth Pl Milwaukee 1 Wisc 16

Advance Industries Inc
640 Memorial Dr Cambridge 38 Mass 6-8-11

Aerjet General Corp
Ordnance Eng'g Div Frederick Md 8

Aeronautical Electronics Inc
P O Box 6527 Raleigh N Carolina 9

Aeronautic Systems Inc
1234 Airway Glendale
Los Angeles Calif 3-17

Aerophysics Dev Corp Sub Curtiss-
Wright Corp
P O Box 689
Santa Barbara Calif 1-4-5-7-9-10-14-17

Aircraft Radio Corp
Houston NJ 4-7-9

Airtone Inc
1108 W Elizabeth Ave Linden Nj 8

Aclar Instruments Inc
17 Industrial Ave Little Ferry NJ 14

American Machine & Foundry Co
Electronics Div
1085 Commonwealth Ave 5-15

American Machine & Foundry Co
Defense Products Group
1101 N Royal St
Alexandria Va 1-4-5-9-15

American Printed Circuits Co
104 Forrest St Metuchen NJ 8

Anabue Control Inc
39 Ruelle St Mineola NY 1-16-17

Arma Div American Bosch Arms Corp
Garden City NY 18

Atlas Precision Products Co
3801 Castor Ave Philadelphia 24 Pa 18

Avion Div ACP Industries Inc
11 Park Pl Paramus NJ 17

Axler Associates Inc
102-42 43 Ave New York 68 NY 17

Baird-Atomic Inc
33 University Rd Cambridge 35 Mass 4-17

Bell Aircraft Corp
P O Box 1 Buffalo 5 NY 1-5-6-8-12-16-17

Belock Instrument Corp
111-01 14 Ave College Point 56 NY 4-5-8

Bendix Aviation Corp Pacific Div
11600 Sherman Way
N Hollywood Calif 3-5-14

Bendix Aviation Corp Bendix Radio Div
Baltimore 4 Md 1-2-4-5-7-8-9-18

Bendix Aviation Corp
1104 Fisher Bldg
Detroit 2 Mich 1-2-3-4-5-7-8-9-14-16-17-18

M Ten Bosch Inc					
80 Wheeler Ave Pleasantville NY	16	Haller Raymond & Brown		Phileo Corp Govt & Industrial Div	
Brubaker Electronics Inc		Circleville Rd		4700 Wissahickon Ave	
3652 Eastham Dr Culver City Calif	8	State College Pa	1-2-4-5-7-8-9-14-16-17-18	Philadelphia 44 Pa	3-4-5-6-8-16-17-18
Burroughs Corp		Hanen Co Wm		Phoenix Precision Instrument Co	
6071 2 Ave Detroit 32 Mich	1	165 Silverbrook Ave Niles Mich	3	3803 N 8 St Philadelphia 40 Pa	17
Canadian Aviation Electronics Ltd		Hastings-Raydiat Inc		Photographic Analysis Inc	
6214 Cote de Liesse Rd		Newcomb Ave Hampton Va	10	13273 Ventura Blvd N Hollywood Calif	5
St Laurent Quebec Canada	7-9	Hazeltine Electronics Div/Hazeltine Corp		Polarad Electronics Corp	
Canoga Corp		59-25 Little Neck Pkwy		43-20 34 St Long Island City 1 NY	6
5965 Sepulveda Blvd Van Nuys Calif	8	Little Neck 62 NY	1-5-7-8-9-15-18	Pye Canada Ltd	
Chesapeake Instrument Corp		Heath Co		82 Northline Rd	
Shadyde Md	14	305 Territorial Rd Benton Harbor Mich	4	Toronto 16 Ontario Canada	3
Chromatic Television Laboratories		Hoffman Electronics Corp		Pye Telecommunications Ltd	
1501 Broadway New York 36 NY	8	3761 S Hill St		Newmarket Rd	
Cullina Radio Co		Los Angeles 7 Calif	1-4-5-8-9-15-17-18	Cambridge England	1-3-4-9-11
855 35 St		Hoover Electronics Co		Q O S Corp	
N E Cedar Rapids Iowa	1-2-4-5-7-9-18	112 W Timonium Rd Timonium Md	5	Bronx Blvd at 216 St New York 67 NY	17
Colorado Research Corp		Humphrey Inc		Radiation Inc	
4697 E Evans Ave Denver 22 Colo	4-9	2405 Canon St San Diego Calif	16	P O Box 37 Melbourne Fla	16-17
Computing Devices of Canada Ltd		Industrial TV Inc		Radio City Products Co	
P O Box 508 Ottawa Ontario Can	4	369 Lexington Ave Clifton NJ	6	Centre & Glendale Sts	
Consolidated Avionics Corp		Inertia Switch		Easton Pa	4-6-8-9-11-14
66 Brooklyn Ave Westbury NY	8	527 Lexington Ave New York 17 NY	16	Radio Receptor Co/Div GIC	
Control Data Corp		Insub Electronics Corp		250 Wytke Ave Brooklyn 11 NY	8-15
501 Park Ave Minneapolis 15 Minn	16	1369 Industrial Rd San Carlos Calif	1	Ramo-Woolbridge Corp	
Convaiv-San Diego		International Business Machines Corp		Electronic Instrumentation Div	
P O Box 1950 San Diego 12 Calif	8-17	590 Madison Ave New York 23 NY	4	P O Box 8405 Denver 10 Colo	16
Curbin Corp		International Research Associates		Raytheon Mfg Co Maynard Lab	
5419 56th Place Riverdale Md	1-6-7-8-9-16-17	2221 Warwick Ave Santa Monica Calif	9	Thompson St Maynard Mass	8
Cosner Canada Ltd		Interstate Electronics Corp		Raytheon Mfg Co Commercial Equip Div	
301 Windsor St		707 E Vermont Ave Anaheim Calif	5-15	100 River St Waltham 54 Mass	3-8-14
Halicraf Nova Scotia Canada	8-14	I-T-E Circuit Breaker Co Special Products Div		Raytheon Mfg Co	
Craig Systems Inc		601 E Erie Ave Philadelphia 34 Pa	8	100 River St Waltham 54 Mass	3-4-8-14
90 Holten St		Jackson Electronics Inc		Rea Co J B	
Danvers Mass	1-2-5-8-9-16-17-18	23 Woodcrest Rd West Chester Pa	1	1723 Cloverfield Blvd	
Daven Co		Jacobs Instrument Co		Santa Monica Calif	17-18
Route 10		4718 Bethesda Ave Bethesda 14 Md	8-9-16-17	Reeder & Co Charles M	
Livingston NJ	1-2-3-4-5-7-9-11-12-13-14-18	Jarvis Electronics Corp		171-173 Victor Ave Detroit Mich	17
Dayton Aviation Radio & Equipment Corp		1140 Cherry St Winnetka Ill	4	Republic Aviation Corp	
P O Box 284 Troy Ohio	1-4-5-7-18	Kearfott Co Inc		Farmingdale LI NY	16-17
Designers For Industry		1378 Main Ave Clifton NJ	4-16	Reel Eng'g Corp	
4241 Fulton Pkwy Cleveland 9 Ohio	8-15-16	Kilken Aircraft Div Kilgen Organ Co		330 S Fair Oaks Ave Pasadena Calif	15
Diamond Antenna & Microwave Corp		1632 W Florissant Ave St Louis 15 Mo	2	Rue Products	
7 North Ave Wakefield Mass	1-8-18	Kinross-Hallen Div Electromation Co		1628 Venice Blvd Venice Calif	9-11
Dunn Eng'g Associates		1646 18 St Santa Monica Calif	5	Sanders Associates	
225 O'Brien Hwy Cambridge 39 Mass	8-15	Kollman Instrument Corp Sub Standard		95 Canal St Nashua NH	8
Dyna-Empire Inc		Coil Products		Sangam Electric Co	
1075 Stewart Ave Garden City LI NY	14	90-08 45 Ave Elmhurst 73 NY	4	11th & Converse Springfield Ill	14
Dynamic Electronics Inc		Laboratory Fur Electronics Inc		Seismograph Service Corp	
73-29 Woodhaven Blvd		75 Pitts St Boston 14 Mass	1-4-8	6200 E 41 St Tulsa 1 Okla	5
Forest Hills NY	2-6-8-12-18	Lars Electronics Mfg Corp		Servo Corp of America	
Eclipse-Pioneer Div		7254 Atoll Ave N Hollywood Calif	4	2020 Jericho Turnpike	
Tendix Aviation Corp		La Pointe Industries Inc		New Hyde Park NY	4-17
Telesboro NJ	5-7-14-18	165 W Main St Rockville Conn	8-9-14	Servomechanisms Inc	
Edo Corp		Lavoie Labs Inc		12500 Aviation Blvd Hawthorne Calif	1
13-10 111 St		Matawon-Freehold Rd Morganville NJ	7-8	Servonics Inc	
College Point 56 LI NY	3-6-8-14	Learn Inc		822 N Henry St Alexandria Va	9
Eldico Electronics		3175 S Bundy Dr Santa Monica Calif	1-4-7-9	Sierra Electronic Corp	
29-01 Barden Ave		Lear Inc		3885 Bohannon Dr Menlo Park Calif	9
Long Island City 1 NY	9-11	110 Ionia Ave NW		Simmonds Aerocessories Inc	
Electromation Co		Grand Rapids 2 Mich	1-4-1-9-16	105 White Plains Rd Tarrytown NY	11
1646 18 St Santa Monica Calif	6	Lindly & Co		Skiatron Electronics & TV Corp	
Electronic Associates Inc		248 Herricks Rd Mineola NY	17	180 Varick St	
Long Branch NJ	1-8-9-10-16	Ling Electronics Inc		New York 14 NY	1-2-4-8-11-14-17-18
Electronic Communications Inc		9037 Jefferson Blvd Culver City Calif	14	Specialty Eng'g & Electronics Co	
1501 72 St St Petersburg Fla	4-6-8-9-17	Litton Industries of Calif		79 Clifton Pl Brooklyn 38 NY	4
Electronics Corp of America		336 N Foothill Rd		Sperry Gyroscope Co Sunnysvale Dev Center	8-16
1 Memorial Dr Cambridge 42 Mass	17	Beverly Hills Calif	1-5-8-16	294 Commercial St Sunnysvale Dev	8-16
Electronic Specialty Co		Madigan Corp		Sperry Gyroscope Co	
5121 San Fernando Rd		526 Mineola Ave		Air Arm Div Great Neck NY	6-8-9-16-17
Los Angeles 39 Calif	18	Carle Place NY	1-4-8-9-16-17	Sperry Gyroscope Co Marine Div	
Emerson Electric Mfg Co		Magnavox Corp		Roosevelt Field Mineola NY	3-4-5-6-8-16-18
8100 Florissant Ave St Louis 21 Mo	8	2131 Rueter Rd Ft Wayne 4 Ind	4-18	Stavid Eng'g Inc	
Erena Corp		Ft Wayne 4 Ind	1-3-4-5-6-7-18	U S Route 22 Plainfield NJ	8-9-15
551 Fifth Ave New York 17 NY	5-8	Magnetic Amplifiers Inc		Stewart Warner Electronics Div	
Ero Radio Labs Inc		632 Tinton Ave New York 55 NY	18	1800 N Kostner Ave Chicago 51 Ill	4-15
637 Stewart Ave Garden City NY	4-9	Maxland Electronic Mfg Corp		Sufnok Products Corp	
Farrand Controls Inc		5009 Calvert Rd College Park Md	7-9	Woodbine & Scudder Ave Northport NY	5-8
4401 Bronx Blvd New York 70 NY	4	Maxson Corp W L		Summit Industries Inc	
Feedback Controls Inc		475 10 Ave New York 18 NY	8-12-15	2104 W Roscrans Ave Garden City 8	
899 Main St Waltham 54 Mass	12-16	Microwave Eng'g Labs Inc		Sylvania Electric Products Co	
Fen-Tone Corp		943 Industrial Ave		Electric Systems Div	
106 5th Ave New York 11 NY	2	Palo Alto Calif	1-4-6-8-9	100 First Ave Waltham 54 Mass	4-5-6-8-9-17
Ford Instrument Co Div Sperry Rand Corp		Minn-Honeywell Regulator Co		Technical Oil Tool Corp	
31-10 Thomson Ave		Ordinance Div 606 2 St N Hopkins Minn	3-14	1087 N La Brea	
Long Island City 1 NY	16	Aeronautical Div		Los Angeles 38 Calif	5-8-16-18
Frederick Tool & Eng'g Corp		2600 Ridgway Ave		Telectro Industries Corp	
414 Pine Ave Frederick Md	14	Minneapolis 13 Minn	1-5-16-17	35-18 37 St	
Gabriel Electronics Div Gabriel Co		Misileonics Inc		Long Island City 1 NY	1-4-5-7-8-9-18
135 Crescent Rd		P O Box 716 Melbourne Fla	1-8-14	Telephonics Corp	
Needham Heights 94 Mass	4-8	Mitchell Industrial Inc		Park Ave Huntington LI NY	11-14-15
Gates Radio Co		Municipale A P P O Box 17		Telerad Mfg Corp	
123 Hampshire St Quincy Ill	1-9	Mineral Wells Texas	7	Route 69 Flemington NJ	8-15
General Electric Co		Moran Instrument Corp		Telerad Mfg Corp	
Heavy Mil Electronic Equip Dept		170 E Orange Grove Ave		1440 Broadway New York 18 NY	8-15
Syracuse NY	1-3-8-14	Pasadena 3 Calif	5-8-15	Televio Corp	
General Electric Co Light Military Electronic Equip Dept		National Aeronautical Corp		1415 Golf Rd Des Plaines Ill	8
French Rd Utica NY	8	Commerce Dr Ft Whington Penna	7	Tempo Aircraft Corp	
General Mills Inc Mechanical Div		Nevada Air Products Co		P O Box 6191 Dallas 2 Texas	15-16-17
1620 Central Ave		P O Box 2472 Reno Nev	9-15	Texas Instrument Inc	
Minneapolis 13 Minn	8-16-17	Norden-Ketay Corp		6000 Lemmon Ave Dallas 9 Texas	8-14-16-17
General Precision Lab Inc		Commerce Rd Stamford Conn	8-16-17	Topp Industries Inc	
21 N Santa Anita Ave Pasadena 8 Calif	8	Olympic Radio & TV		8907 Wilshire Blvd	
General Precision Lab Inc		84-01 35 Ave Long Island City 1 NY	8-18	Beverly Hills Calif	1-4-5-7-8-9-11-18
63 Bedford Rd Pleasantville NY	5-8-16-17	Oster Mfg Co John Avionic Div		Varo Mfg Co	
General Railway Signal Co		1 Main St		2201 Walnut St Garland Texas	8
P O Box 600 Rochester NY	1	Packard Bell Electronics Corp		1611 Trapelo Rd Waltham 54 Mass	1-5-6-8-12
Hamilton Standard Electronics Dept		12333 W Olympic Blvd	5-8-9-11-14	Virginia Electronics Co	
Main St Broad Brook Conn	8-16-17	Los Angeles 64 Calif	15-16-17-18	River Rd & B & O R K	
Gray Mfg Co		Parsons Co Ralph M Electronics Div		Washington 16 DC	1-9
16 Arbor St Hartford 1 Conn	8-9	151 S De Lacey Ave Pasadena Calif	5-15	Waldorf Instrument Co Div F C Huyck & Sons	
Gruen Industries Inc/Electronic Products Div		Perkin-Elmer Corp		Park Ave Huntington Station NY	1-5-8-16
9701 Reading Rd Cincinnati 16 Ohio	8	Philco Corp		West Coast Research Corp	
Gulton Industries Inc		2104 W Roscrans Ave Pasadena Calif	17	2311 1/2 Westwood Blvd	
212 Durban Ave		Phileo Corp		Los Angeles 64 Calif	4-8-15
Metuchen NJ	2-3-5-7-14-16-17	Tioga & C Sts		Westgate Lab Inc	
Hallamore Electronics Co		Philadelphia 24 Pa	1-3-4-6-8-9-14-16-17-18	806 S High St Yellow Springs Ohio	8
8562 Brookhurst Ave Anaheim Calif	18				

Westinghouse Electric Co Div Air Arm Div
P O Box 746 Friendship Intl A P
Baltimore Md 8-17
Westinghouse Electric Corp
P O Box 868 Pittsburgh 30 Pa 8-17
Winder Aircraft Corp of Florida
P O Box 2397 Drane Field Lakeland Fla 6

65—NUCLEAR PRODUCTS

Analizers, coincidence	1
Analizers, neutron absorption	2
Analizers, spectrum	3
Assemblies, shield	4
Badges, radiation	5
Batteries, nuclear	6
Chambers, alpha	7
Controls, reactor	8
Counters, radiation	9
Counters, scintillation	10
Crystals, scintillation	11
Detection systems, leak	12
Detectors, radiation	13
Detectors, scintillation	14
Equipment, food irradiation	15
Equipment, nuclear radiation	16
Indicators, radiation	17
Manipulators	18
Meters, counting rate	19
Meters, dosimeter	20
Meters, nuclear radiation	21
Processors, catalytic flow rate	22
Radioactive stack	23
Sealers	24
Shielding, lead	25
Shielding, radiation	26
Spectrometers	27
Tubes, gamma ray	28
Tubes, geiger counter	29
Tubes, scintillation	30

Ace Eng'g & Machine Co Inc
Tomlinson Rd Huntingdon Valley Penna 26
Admiral Corp
3800 W Cortland St Chicago 47 Ill 9-13-26
Aerophysics Dev Corp
Sub Curtiss-Wright Corp
P O Box 689
Santa Barbara Calif 1-3-12-18-27
Airmec Ltd
High Wycombe
Buckinghamshire England 9-10-13-14-19
Allied Eng'g & Production Corp
2421 Blanding Ave Alameda Calif 4-7-8-16-18-26-26
American Electronics Inc
655 W Washington Blvd 2-5-9-10-11-12-13-15
Los Angeles 15 Calif 14-16-17-20-27
American Machine & Foundry Co
Defense Products Group
1101 N Royal St 1-2-3-4-8-9-10-12-13-14-15-16
Alexandria Va 16-17-18-19-20-21-22-23-24-26
American Machine & Foundry Co
Gen Eng. Labs
11 Bruce Pl Greenwich Conn 7-8-15-18
American Optical Co Instrument Div
Box A Buffalo 15 NY 18-27
American Rectifier Corp
86 Lafayette St New York 13 NY 8
American Smelting & Refining Co
Federation Metals Div
2230 Indianapolis Blvd Whiting Ind 25
American-Standard Atomic Energy Div
369 Whisman Rd
Mountain View Calif 8-13-15-16
American Tradair Corp
3401 80 St
Long Island City 5 NY 10-11-14-19-20-29-30
Amperx Electronic Corp
230 Duffy Ave Hicksville LI NY 28-29
Anton Electronic Labs
1226 Flushing Ave 4-7-9-13-16-17-19-21-23-25-26-28-29
Brooklyn 37 NY
Applied Radiation Corp
2404 N Main St Walnut Creek Calif 15-16-27
Arens Controls Inc
2017 Greenleaf St Evanston Ill 8-18
Arma Div American Bosch Arms Corp
Garden City NY 3
Assembly Products Inc
75 Wilson Mills Rd Chesterland Ohio
Atomic Accessories Inc
244-02 Jamaica Ave 9-11-13-17-18-20-21-25-26-28-29
Bellerose 26 NY
Atomic Labs Inc
3086 Claremont Ave Berkeley 5 Calif 7-27
Automatic Switch Co
Hanover Rd Florham Park NJ
Axler Associates Inc
102-42 48 Ave New York 66 NY 27
Baird-Atomic Inc
38 University Rd 1-2-3-4-9-10-11-13-14-17-19-20-21-25-26-27-28-29-30
Cambridge 88 Mass
Barker & Williamson Inc
Canal & Beaver Sts Bristol Pa
Bar-Ray Products Inc
209 25th St Brooklyn 32 NY 15-16-26-26

Bausch & Lomb Optical Co
628 St Paul St Rochester 2 NY 3-17-27
Beckman Berkeley Div Beckman
Instruments Inc 2200 Wright Ave
Richmond 3 Calif 9-10-13-14-17-19-21
Bendix Aviation Corp
1104 Fisher Bldg Detroit 2 Mich 3-13-17-27
Bendix Aviation Corp Cincinnati Div
3130 Wasson Rd Cincinnati 8 Ohio 3-13-20-27
Beva Laboratory 1640 N Olden Ave
Ext Trenton 8 NJ 3
Bios Labs Inc
17 W 60 St
New York 23 NY 9-10-11-23-24-25-26
B J Electronics Borg-Warner Corp
3300 Newport Ave 1-3-4-8-9-10-11-13-14-17-19-20-25-26-27
Santa Ana Calif
Black Light Corp of America
5114 Walnut Grove Ave
San Gabriel Calif 9-10-16
Brooks & Perkins Inc
1950 W Fort St Detroit 38 Mich 26
Brush Instruments
3405 Perkins Ave Cleveland 14 Ohio 3-27
Cambridge Instrument Co
Grand Central Terminal
New York 17 NY 13-20
Canadian Aviation Electronics Ltd
6214 Cote de Liesse Rd
St Laurent Quebec Canada 10-14
Canadian Curtiss-Wright Ltd
1940 Sherbrooke St W
Montreal Que Canada 13-15-16-19
Central Research Labs
Red Wing Minn 18
Chatham Electronics Div Gera Corp
W Mt Pleasant Ave Livingston NJ 9-10-16
Chemical Development Corp
Endicott St Danvers Mass 26-26
Chromium Corp of America
P O Box 1228 Waterbury 20 Conn 16
City Chemical Corp
132 W 22 St New York 11 NY 11
Computing Devices of Canada Ltd
P O Box 508 Ottawa Ontario Can 3-9
Consolidated Electrodynamics Corp
300 N Sierra Madre Villa
Pasadena Calif 12-27
Continental Electric Co Taylor Tubes Inc
6 N Michigan Ave Chicago 8 Ill 13
Controlled Atmosphere Enclosures Corp
230-11 141 Ave
Springfield Gardens LI NY 26
Controls For Radiation Inc
130 Alewife Brook Pkwy
Cambridge 40 Mass 5-16
Cook Electric Co
2700 Southpark Ave Chicago 14 Ill 7-15-16-26
Corning Glass Works
Corning NY 26
Cosmic Radiation Labs
247 Blue Point Ave
Blue Point LI NY 3-9-10-11-13-14-19
Cossar Canada Ltd
301 Windsor St
Halifax Nova Scotia Canada 20
Curtiss-Wright Corp Electronics Div
631 Central Ave Carlstadt NJ 12-13-17
Dallons Labs
5066 Santa Monica Blvd
Los Angeles 29 Calif 15
Designers For Industry
4241 Fulton Pkwy Cleveland 9 Ohio 8
Division Lead Co
7742 W 61 Pl Summit Ill 4-5-26-26
Douglas Radio Labs
176 Norfolk Ave Boston 19 Mass 9
D & S Mfg Co
424 Burk St
Ridley Park Pa 2-3-4-6-9-10-11-12-17-19-25
DuMont Labs A B
750 Bloomfield Ave Clifton NJ 3
Dynamic Electronics Inc
73-29 Woodhaven Blvd Forest Hills NY 12
Dynamics Research Associates
Div Universal Match Corp
P O Box 5841 Ferguson 21 Mo 8
Eastman Kodak Co
343 State St Rochester 4 NY 5-13
Eberline Instrument Div Reynolds Electrical
805 Early St 7-9-10-13-14-16-17-19-21-23
Santa Fe NM
Edin Co
207 Main St Worcester 8 Mass
Eldorado Electronics Co
2221 10 St Berkeley 10 Calif 1-3-27
Electrical & Physical Instrument Corp
42-19 27 St Long Island City 1 NY 9-16
Electric Boat Div General Dynamics
Eastern Point Rd Groton Conn 26
Elgin National Watch Co
107 National St Elgin Ill 6-9
Elm Labs
10 Washington Ave
Hastings-on-Hudson NY 18
El-Tronics Inc
Penn Ave Mayfield Pa 9-10-13-14-26-28-29-30
Emerson & Cumings Inc
869 Washington St Canton 1 Mass 25-26
Era Eng'g Inc
1009 Montana Ave
Santa Monica Calif 13-14-16-17
Fairchild Camera and Instrument Corp
Robbins La Syosset NY 1-8-10-19
Fansteel Metallurgical Corp
2200 Sheridan Rd N Chicago Ill 26
Fisher Research Lab
1961 University Ave Palo Alto Calif 10-14

Ford Instrument Co Div Sperry Rand Corp
31-10 Thomson Ave Long Island City 1 NY 8
Furro Scientific Co
833 Lincoln St Evanston Ill 1-9-13-14-19-29
Franklin Electronics Inc
E 4th St Bridgeport Pa 1-10-19-24
Furane Plastics Inc
4516 Brazil St Los Angeles 39 Calif 25
Garrett Corp Aircsearch Mfg Co Div
9551 Sepulveda Blvd Los Angeles 45 Calif 8
General Electric Co
Apparatus Sls Div
1 River Rd Schenectady 5 NY 7-8-16
General Mills Inc Mechanical Div
1620 Central Ave Minneapolis 13 Minn 18
Greer Hydraulics Inc
NY Int'l Airport Jamaica 30 NY 18
Hallamre Electronics Co
8352 Brookhurst Ave Anaheim Calif 12
Hamner Electronics Co
P O Box 631 Princeton NJ 3-10-19-24-25-27
Haver Industries Inc
900 Greenbank Rd Wilmington 8 Dela 26
Heath Co
305 Territorial Rd Benton Harbor Mich 9
Highside Chemicals Inc
11 Colfax Ave Clifton NJ 12-24
High Voltage Eng Corp
Burlington Mass 15-16
Hi Grade Alloy Corp
1236 S Talman Chicago 8 Ill 26-26
Hupp Instrumentation Div Erie-Pacific
12932 S Weber Way Hawthorne Calif 9
Huron Industries
P O Box 557 Port Huron Mich 26
Instruments Inc
122 N Madison St
Tulsa Okla 9-13-17-25-26-28-29
Interstate Electronics Corp
707 E Vermont Ave Anaheim Calif 20
Isomet Corp
118 Union St Palisades Park NJ 10-11-14
Isotopes Inc
123 Woodlawn Ave
Westwood NJ 1-4-9-10-11-13-14
Isotope Accessories Co
6950 Irving St Phila 43 Pa 4-18-25
Isotope Products
1711 Elmwood Ave Buffalo 7 NY 15
Isopes Specialties Co 3-4-5-7-8-10-11-12-13-14-15-16-17-18-19-20-21-23-24-25-26-27-28-29-30
Burbank Calif
Jarrell-Ash Co
26 Farwell St Newtonville 60 Mass 27
Jordan Co
3235 W Hampton Ave Milwaukee 9 Wisc 8
Jordan Electronics Inc Sub Panellit Inc
3025 W Mission Rd
Alhambra Calif 13-16-20-21
Kahl Scientific Instrument Corp
P O Box 1166 El Cajon Calif 13
Keithley Instruments Inc
12415 Euclid Ave Cleveland 6 Ohio 21
Kelley & Co O G
98 Taylor St
Boston 22 Mass 4-8-15-16-18-25-26
Kelley-Hayes Co
3600 Military Ave Detroit 32 Mich 18
Kulite Tungsten Co
1040 Hoyt Ave Ridgefield NJ 25-26
Land-Air Inc Instrument & Electronic Div
2133 Adams Ave
San Leandro Calif 4-13-16-17-20-21
Landair Inc
7444 W Wilson Ave Chicago 31 Ill 13
Landaue Jr & Co R S
3920 216th St Matteson Ill 5
Landsverk Electrometer Co
641 Sonora Ave
Glendale 4 Calif 5-9-13-17-20-21-28-29
Lear Inc
110 Ionia Ave N W Grand Rapids 2 Mich 8
Leeds & Northrup Co
4970 Stenton Ave Philadelphia 44 Pa
Lennard Co Inc P M
1061 E 8 St Jacksonville 8 Fla 7-18-26
Levinthal Electronic Products Inc
3180 Hanover St Palo Alto Calif 10-11-14
Mackay Inc A D
198 Broadway New York 38 NY 11
Magnetic Amplifiers Inc
632 Tinton Ave New York 65 NY 8-18
Magnetic Instrument Co
546 Commerce St Thornwood NY 21
Magnetic Research Corp
3160 W El Segundo Blvd
Hawthorne Calif
Marlette Corp
37-31 30 St Long Island City 1 NY 26
Marvel-Schebler Products Div Borg-Warner
Corp Box 863 Decatur Ill 18
Maxson Corp W L
475 10 Ave New York 18 NY 18
Measurement Eng'g Ltd
232 John St
Arnprior Ontario Can 7-8-9-10-12-13-14-16-17-19-21
Menlo Research Lab
638 Phelan Ave San Jose Calif 9-10-13-14
Minimax Co
6905 N Clark St Chicago 26 Ill 5
Monaghan Co J J
1600 Colcott St Denver 4 Colo 9-10
Moran Instrument Corp
170 E Orange Grove Ave
Pasadena 8 Calif 10-14
National Carbon Co
Div Union Carbide & Carbon Corp
88 W 42 St New York 17 NY 26

National Radiac Inc
475 Washington St
Newark 2 NJ 4-7-9-10-11-18-
14-19-26-26-27

Nevada Air Products Co
P O Box 2472 Reno Nev 9-12-13-14-16-17

New England Nuclear Corp
575 Albany St Boston 18 Mass 10

NRC Equipment Corp
160 Charlemont St
Newton Highlands 61 Mass 12

NID Instrument Co
9842 Manchester Rd
St Louis 14 Mo 2-3-4-5-9-10-11-13-
14-15-16-17-19-20-21-
25-26-27-28-29-30

Nuclear-Chicago Corp
223 W Erie St
Chicago 10 Ill 2-4-5-7-9-10-11-18-
14-16-17-19-20-21-
25-26-27-28-29-30

Nuclear Corp of America
400 Park Ave
New York 22 NY 1-5-7-9-10-11-13-14-16-
19-20-21-25-26-28-29-30

Nuclear Development Lab
P O Box 7034 Kansas City 13 Mo 9-13-28-29

Nuclear-Electronics Corp
2632 W Cumberland St
Philadelphia 32 Pa 7-8-9-10-13-14-17-
19-21-27-28-29-30

Nuclear Measurements Corp
2480 N Arlington Ave
Indianapolis 18 Ind 3-4-7-9-10-13-14-
19-20-21-27-28-29

Nuclear Products-Ereo
Div ACF Industries Inc Riverdale Md 16

Nuclear Systems Div Budd Co
2450 Hunting Park Ave
Philadelphia 32 Pa 15-16-23-26

Nucleonic Corp of America
196 Degrass Ave
Brooklyn 31 NY 1-2-3-4-5-7-9-10-
11-12-13-14-16-17-18-19-
20-21-25-26-28-29-30

Nucor Research Inc
2421 Walcott Ferndale 20 Mich 20-21

Ohmart Corp
2238 Rogan St Cincinnati 14 Ohio 13-16-17

Packard Instrument Co
P O Box 428 La Grange Ill 1-9-10-14-27

Patterson Moos Div Universal Winding Co
90-28 Van Wyck Expressway
Jamaica 18 NY 1-2-3-4-6-9-10-
11-12-13-14-20-23

Paul & Hewland
1801 W Courtland St Philadelphia 40 Pa 26

Penberthy Instrument Co
4301 6 Ave S Seattle Wash 13

Perkin-Elmer Corp
Main Ave Norwalk Conn 3

Phillips Electronics Inc
750 S Fulton Ave Mt Vernon NY 10-13-14-29

Pickler X-Ray Corp
26 S Broadway
White Plains NY 4-5-9-10-11-12-13-14-15-16-
17-19-20-21-25-26-29-30

Pilot Chemicals Inc
36 Pleasant St Watertown 72 Mass 11

Potter Aeronautical Corp
Route 22 Union NJ 12-19

Precision Radiation Instruments Inc
Radio Craftman Div
4223 W Jefferson Blvd
Los Angeles Calif 9-10-11-13-14-21

Pyre Canada Ltd
82 Northline Rd
Toronto 16 Ontario Canada 19-21

Radiation Counter Labs Inc
8121 W Grove St 1-2-5-7-8-9-10-11-13-14-16-17-
Skokie Ill 18-19-20-21-25-26-27-28-29-30

Radiation Instrument Development Lab Inc
5737 S Halsted St
Chicago 21 Ill 1-3-4-9-10-13-14-
16-19-24-26-27

Radiation Research Corp
1114 1st Ave New York 21 NY 6

Ramo-Woodbridge Corp
Electronic Instrumentation Div
P O Box 8405 Denver 10 Colo 3-8-18-16-17-21

Ray Proof Corp
843 Canal St Stamford Conn 25-26

St Flou Corp
P O Box 507 Newtown Br
Cincinnati 44 Ohio 18-20

St John X-Ray Lab
Calton NJ 5-13-17

Sargent-Remont Co
4926 E 12 St Oakland 1 Calif 13

Servonics Inc
822 N Henry St Alexandria Va 8-18

Servo-Recording Instruments Inc
1815 W Van Buren St
Phoenix Ariz 1-7-9-10-11-13-14-
16-17-19-20-21

Single Crystal Corp of America
Saxtonburg Blvd Saxtonburg Pa 11-14

Specialty Eng'g & Electronics Co
79 Clifton Pl Brooklyn 38 NY 20-21

Spinform Inc
65 Mechanic St Attleboro Mass 26

Standard Electronics Research Corp
2 E End Ave New York 21 NY 18

Stanley Aviation Corp
2501 Dallas St Denver Colo 9-10-13-14-17

State Labs Inc
619 Broadway New York 12 NY 29

Statistical Instr Co
830 Haven Ave New York 33 NY 8

Staver Co
41-51 N Saxon Ave Bay Shore L.I. NY 4-25-26

Stow Mfg Co
443 State St Binghamton NY 8

Stromberg-Carlson Div General
Dynamics Corp 100 Carlson Rd
Rochester 3 NY 13

Systrom Corp
2055 Concord Blvd Concord Calif 19

Taffet Radio & TV Co
27-05 Brooklyn-Queens Expressway W
Woodside 77 NY 9-13-17-21

Taylor Instruments Companies
95 Ames St Rochester 1 NY 8

Technical Associates
140 W Providencia Ave
Rurbank Calif 6-7-9-10-13-14-19-24-25

Technical Measurement Corp
110 State St
New Haven 11 Conn 1-2-3-4-8-9-10-11-13-14-
17-19-22-23-24-27-30

Telectro Industries Corp
35-18 37 St Long Island City 1 NY 25-26

Topp Industries Inc
8905 Wilshire Blvd Beverly Hills Calif 13

Traceclab Inc
1601 Trapelo Rd
Waltham 54 Mass 1-3-4-5-6-7-8-9-10-11-12-13-
14-16-17-18-19-20-21-
23-25-26-27-28-29-30

Trott Electronics Inc
412 Smith St Rochester 6 NY 9-19-21

Tullamore Electronics Lab
6055 S Ashland Ave
Chicago 36 Ill 1-3-8-9-10-13-14-17-19-21-27

UAC Electronics Div
Universal Transistor Prods Corp
50 Bond St Westbury L.I. NY 7-9-10-13-14-17

United Aircraft Products Inc
1116 Belandier Ave Dayton 8 Ohio 24

United Mineral & Chemical Corp
16 Hudson St New York 13 NY 11

Universal Transistor Products Corp
36 Sylvester St
Westbury L.I. NY 9-10-13-14-20-21

U S Radium Corp
Morristown NJ 6-16

U S Stoneware Co Alite Div
East Ave Tallmadge Ohio 25-26

Varian Associates
611 Hansen Way Palo Alto Calif 27

Victoreen Instrument Co
5808 Hough Ave
Cleveland 3 Ohio 1-3-7-8-9-10-13-14-16-
17-19-20-21-28-29-30

Volk Radiochemical Co
5412 N Clark St
Chicago 40 Ill 21-25-26-28-29-30

Vought Co
P O Box 1350 8907 Melrose Ave
Beverly Hills Calif 3

Warren Corp
2801 Brighton Rd Pittsburgh 12 Pa 25

Western Radiation Lab
1107 W 24 St
Los Angeles 7 Calif 9-13-16-28-29

Westinghouse Electric Corp
Box 294 Elmira NY 28

Westinghouse Electric Corp
P O Box 868
Pittsburgh 30 Pa 8-10-12-13-14-28-30

Westlake Plastics Co
133 W Lenni Rd Lenni Mills Pa 26

Wood Counter Lab N
1525 E 53 St
Chicago 15 Ill 9-10-13-14-16-17-29-30

X-Ray Mfg Corp of America
1750 Plaza Ave New Hyde Park NY 5

Zippertubing Co
752 S San Pedro St
Los Angeles 14 Calif 26-26

**66—PHOTOELECTRIC
EQUIPMENT**

- Colorimeters 1
- Counting machines 2
- Headlight dimmers 3
- Light supplies 4
- Photocells & phototubes 5
- Photoelectric units, complete 6
- Photometers 7
- Relays 8
- Scanners 9

Advanced Instruments
45 Kenneth St Newton Highlands 61 Mass 1

Aerophysics Dev Corp Sub Curtiss-Wright Corp
P O Box 689 Santa Barbara Calif 6-8

Aerotron Associates
Box 419 Concord NH 7

Alrme Ltd
High Wycombe Buckinghamshire England 2-6

American Electronic Laboratories
121 N 7 St Philadelphia 6 Pa 1

American Instrument Co
8050 Georgia Ave Silver Springs Md 7-8

American Optical Co Instrument Div
Box A Buffalo 15 NY 7

Automatic Switch Co
Hanover Rd Florham Park NJ 8

Autotron Inc
3629 N Vermilion St Danville Ill 6-8-9

Autron Eng Inc
1254 W 6 St Los Angeles 17 Calif 2-4-5-6-8-9

Axlar Associates Inc
102-42 43 Ave New York 88 NY 1

Baird-Atomic Inc
33 University Rd Cambridge 38 Mass 2-5-7

Barker & Williamson Inc
Canal & Deaver Sta Briostat Pa 3

Barrett Electronics Corp
630 Dundee Rd Northbrook Ill 2-6-8

Barton Electronics Inc
1000 Farmington Ave W Hartford 7 Conn 6

Basic Controls Co
1714 Westwood Blvd Los Angeles 24 Calif 1

Bennett Co R P
43 S Carroll St Frederick Md 8

Boy-Mar Electrical Service Co
1271 Mission St San Francisco 8 Calif 2-4-5-6

Brooke Eng'g Co
4517 Wayne Ave Philadelphia 44 Pa 6

Central Scientific Co of Calif
1040 Martin Ave Santa Clara Calif 1

Central Scientific Co of Canada Ltd
146 Kendal Ave Toronto 4 Ont Canada 1

Cinema-Television Ltd
Worsley Bridge Rd Lower Sydenham
London SE 26 England 5-9

Clairex Corp
19 W 26 St New York 10 NY 5

Coleman Instruments Inc
318 Madison St Maywood Ill 1

Consolidated Productions Inc
Broward Int'l Airport Ft Lauderdale Fla 3

Continental Electric Co Taylor Tubes Inc
6 N Michigan Ave Chicago 2 Ill 5

Crown Engineering
3821 Commercial N E Albuquerque NM 6

Dalmo Victor Co Div Textron Inc
1515 Industrial Way Belmont Calif 9

Davenport Mfg Co
1713 N Ashland Ave Chicago 22 Ill 2-6

Designers For Industry
4241 Fulton Pkwy Cleveland 9 Ohio 2-6

Detect-O-Ray Co
2622 N Halsted St Chicago 14 Ill 2-6

Du Mont Labs Inc Allen B
750 Bloomfield Ave Clifton NJ 5-9

Eastman Kodak Co
313 State St Rochester 4 NY 5

Eldorado Electronics Co
2821 10 St Berkeley 10 Calif 1-7

Electrical Service Co
1271 Mission St San Francisco 3 Calif 6

Electronic Control Corp
1573 E Forest Ave Detroit 7 Mich 4-6-8

Electronic Products Div Post Machinery
140 Elliot St Beverly Mass 2-5-6-9

Electronics Corp of America
1 Memorial Dr Cambridge 42 Mass 2-5-6-9

Electro Physics Co
297 Broadway New York 7 NY 7

Electro Vision Lab
41-08 45th St Long Island City 1 NY 2

Elfa Instrument Center
55 Rende St New York 7 NY 7

Ercona Corp
551 Fifth Ave New York 17 NY 5

Esa Instrument Co
86 S Washington Ave
Bergenfield NJ 1-2-6-8-9

Farnsworth Electronics Co Div I T & T
2651 4 Pontiac St Ft Wayne Ind 5-9

Fecker Inc J W
6592 Hamilton Ave Pittsburgh 6 Pa 7-9

Federal Equipment Co
34 Brady St San Francisco 3 Calif 2-6

Fisher Pierce Co
170 Pearl St S S Braintree 85 Mass 6-8

Fisher Scientific Co
711 Forbes St Pittsburgh 22 Pa 1

Fredericks Co Geo E
Bethayres Pa 5

Froid Transformer Co
1718-36 Weirfield St Brooklyn 27 NY 2

Gardner Lab Inc
P O Box 5728 Bethesda 14 Md 1-7

General Electric Co
Apparatus Sls Div
1 River Rd Schenectady 5 NY 1

General Electric Co Electronic Components Div
1 River Rd Schenectady 5 NY 5

General Electric Co Specialty Control Dept
P O Box 812 Waynesboro Va 2-6

Geotechnical Corp
3712 Haggard Dr Dallas 9 Texas 9

Glens Falls Lab
Box 685 Glens Falls NY 6

Gordas Corp
250 Glenwood Ave Bloomfield NJ 5

Grafex Inc
154 Clarissa St Rochester 9 NY 4-6

Haller Raymond & Brown
Circleville Rd State College Pa 5

Hall Sonic Eng'g Co
2402 2 St Peru Ill 7

H-B Instrument Co
American & Bristol Sta Phila Pa 8

Hellige Inc
877 Stewart Ave Garden City NY 1

Hickok Electrical Instrument Co
2651 4 Dupont Ave Cleveland 8 Ohio 9

Hoffman Electronics Corp
3761 S Hill St Los Angeles 7 Calif 5

Hoffman Semiconductor Div
Hoffman Electronics Corp
930 Pinter Ave Evanston Ill 5

Hughes & Phillips
830 N San Fernando Blvd Burbank Calif 6

Hupp Electronics Co Div Hupp Corp
743 Circle Ave Forest Park Ill 2-3-5-6-9

Industrial Development Labs Inc
17 Pollock Ave Jersey City 5 NJ 6

Industrial Electronics Inc
8060 Wheeler St Detroit 10 Mich 6

Instrument Development Labs Inc
67 Mechanic St Attleboro Mass 1-6

International Rectifier Corp
1521 E Grand Ave El Segundo Calif 5

Interstate Electronics Corp
707 E Vermont Ave Anaheim Calif 6

Jarrell-Ash Co
26 Farwell St Newtonville 60 Mass 1

Kidde & Co Walter
1156 Main St Belleville 9 NJ 6

Kllegal Bros
321 W 50 St New York 19 NY 4

Land-Air Inc Instrument & Electronic Div
2133 Adams Ave San Leandro Calif 7

Lektra Labs Inc
154 11 Ave New York 11 NY 7

Life Instrument Co
P O Box 158 Braintree 85 Mass 8

Lindly & Co
248 Herricks Rd Mineola NY 2-6-8-9

L & O Research & Dev Corp
134 N Wayne Ave Wayne Pa 9

Luxor Lighting Products Inc
850 5 Ave New York 1 NY 4

Macarr Inc
2543 Boston Rd New York 67 NY 2-6-8-9

Machine O Matic
2045 N Hay NE Ave Chicago 4 Ill 6

Machinery Electrification Inc
85 Hudson St Northboro Mass 2-6-8-9

Maico Co Inc
21 N 3rd St Minneapolis 1 Minn 3

Measurement Eng'g Ltd
232 John St
Arnprior Ontario Can 1-2-6-7-8

Metal Products Inc
Div Mid West Conveyor Co Inc
Fairfax Industries Dist
Kansas City 15 Kan 6

Micro Balancing Inc
191 Herricks Blvd Garden City NY 6

Minn-Honeywell Regulator Co
Rubicon Instruments
Ridge Ave at 35 St Philadelphia 32 Pa 1

National Instrument Labs Inc
828 Evars St NE Washington DC 2-6-8

Nemeth Inc
2223 S Carmelina Ave
Los Angeles 84 Calif 8

Packard Instrument Co
P O Box 428 La Grange Ill 2

Pantek Co
P O Box 212 El Segundo Calif 2

Patwin Instruments Div Patwin Button Co
Waterbury 20 Conn 7

Perkin-Elmer Corp
Main Ave Norwalk Conn 1-9

Phoenix Precision Instrument Co
3808 N 5 St Philadelphia 40 Pa 1-4

Photobell Co
A J Vesey St New York 7 NY 1-2-4-6-7-8-9

Photo-Crystals
15 S 1st Geneva Ill 3-5

Photovolt Corp
95 Madison Ave New York 16 NY 1-7

Pollak Corp Joseph
81 Freeport St Boston 22 Mass 8

Potter Aeronautical Corp
Route 22 Union NJ 2

Practical Electronics Mfg Co
569 W Van Buren St Chicago 7 Ill 5-6

Process & Instruments
15 Stone Ave Brooklyn 33 NY 1-7

Quantametric Devices Inc
Box 1107 Binghamton NY 1-4-6-7

RCA Electronic Tube Div
415 S 5 Harrison NJ 5

Research Specialties Co
2005 Hopkins St Berkeley 7 Calif 9

Resitron Labs Inc
2908 Nebraska Ave Santa Monica Calif 5-8

Ripley Co
1 Factory St Middletown Conn 8

Rockwell Eng'g Co
2133 E 45 St Indianapolis 5 Ind 6-8

Scientific Glass Apparatus Co
100 Lakewood Terrace Bloomfield NJ 1

Sigmadyne of Conn
P O Box 869 Port Chester NY 8

Simpson Electric Co
8200 W Kintz St Chicago 44 Ill 8

Skiatron Electronics & TV Corp
180 Varick St New York 14 NY 2-9

Specialty Eng'g & Electronics Co
79 Clifton Pl Brooklyn 38 NY 9

Springfield Enterprises
138-17 Springfield Blvd
Springfield Gardens 13 NY 6

Standard Instrument Corp
657 Broadway New York 12 NY 2-6

State Labs Inc
649 Broadway New York 12 NY 5

Techniques Inc
52 Jackson Ave Hackensack NJ 4

Telechrome Mfg Corp
28 Ranick Dr Amityville LI NY 1-2-7-9

Telectro Industries Corp
35-18 37 St Long Island City 1 NY 8

Trans-Sil Corp
55 Honeck St Englewood NJ 8

Tri-Tronics Co
2607 St Charles Rd Bellwood Ill 2-6-8-9

Ultrasonic Eng'g Co
1613 S 8 Ave Maywood Ill 7

Uniwave Inc
108 Marine St Farmingdale NY 2

U S Control Inc
161 Grand St New York 13 NY 2-6

U S Radium Corp
Morristown NJ 4

Vickers Inc Electric Products Div
1887 Locust St St Louis 8 Mo 5

Welch Scientific Co W M
1515 Sedgwick St Chicago 10 Ill 7

Weston Electrical Instrument Corp
614 Frelinhuyzen Ave Newark 12 NJ 1-8

Winkler Labs
6225 N 20 St Phoenix Ariz 4

Worner Electronic Devices
Rankin Ill 6-9

Zoomar Inc
85 Sea Cliff Ave Glen Cove NY 7

67—POWER SUPPLIES & CONVERTERS

Power supplies, AC 1
Power supplies, computer 2
Power supplies, DC 3
Power supplies, high voltage 4
Power supplies, klystron 5
Power supplies, low voltage 6
Power supplies, microwave 7
Power supplies, miniature 8
Power supplies, mobile 9
Power supplies, radar 10
Power supplies, regulated 11
Power supplies, special purpose 12
Power supplies, transistor 13
Power supplies, variable frequency 14
Choppers 15
Controls, voltage regulator 16
Converters, AC-DC 17
Converters, frequency 19
Converters, voltage 20
Converters, waveform 21
Fuel cells 27
Inverters, DC-AC 22
Regulators, current 23
Regulators, voltage 24
Vibrators 25
Vibrators, ultrasonic 26

Accurate Eng'g Co
2005 Blue Island Ave Chicago 8 Ill 3-6-12

AC Electronics Div GMC
1925 E Kenilworth Pl Milwaukee 1 Wisc 3

Arme Electric Corp
Water St Cuba NY 1-2-3-6-11-13

Acoustics Associates
26 Windsor Ave Mineola NY 26

A & D Electronics Inc
Mt Pascal Rd Hackettstown NJ 3

Adler Electronics Inc
1 Lefevre Lane
New Rochelle NY 1-3-4-6-11-12-13-14

Advance Instrument Corp
1709 F St Belmar NJ 1-3-8-11-12-13

Aeromotive Eng'g Products Ltd
5257 Queen Mary Rd
Montreal Que Canada 1-9

Aeronautical Electronics Inc
P O Box 6527 Raleigh N Carolina 9-13

Aeronaic Mfg Corp
Middletown Ohio 1-3

Aerophysics Dev Corp Sub Curtiss-Wright Corp
P O Box 689 Santa Barbara Calif 1-3-13

Aerovox Corp
740 Belleville Ave New Bedford Mass 3-6-11

Airborne Associates Corp
1414 Chestnut Ave
Hillside 5 NJ 1-3-8-11-12-13-17-22

Aitcom Inc
364 Main St Winthrop Mass 3-5-7-11

Aircraft Radio Corp
Roonton NJ 1-3-6-13

Airpneig Corp
241 Fairfield Ave Upper Darby Pa 1-3-6-8-11

Airmec Ltd
High Wycombe
Buckinghamshire England 5-24

Airmax Products Co
Middle River Baltimore 20 Md 12-18-22-28

Airpax Products Co Seminole Div
City of Plantation Ft Lauderdale Fla 15-25

Air Reduction Sales Co Div Air Reduction Co
150 E 42 St New York 17 NY 1-3

AiResearch Mfg Co Div Garret Corp
9851 Sepulveda Blvd
Los Angeles 45 Calif 12-17-18-22

Airtronics Inc
532 Darsey Lane Bethesda Md 2

Airtronix Development Corp
4902 Church Ave Brooklyn 3 NY 6

Alear Instruments Inc
17 Industrial Ave Little Ferry NJ 26

Alden Electronic & Impulse
Recording Equip Co
P O Box 125 Westboro Mass 3-11-12

Ailred Electronics
897 Commercial St
Palo Alto Calif 3-4-8-7-11

Allegany Instrument Co
1091 Wills Mountain Cumberland Md 8

Allen-Bradley Co
5325 Greenwood Ave Milwaukee 4 Wisc 24

Allis Co Louis
427 E Stewart St Milwaukee 1 Wisc 17-18

Alter Lansing Corp
1615 S Manchester Ave Anaheim Calif 12

Alto Scientific Co
855 Commercial St
Palo Alto Calif 3-4-5-6-8-11-12-13-15

Ameco
2949 W Osborn Rd Phoenix Ariz 11-12

Amerac Inc
Dunham Rd Beverly Mass 6-7-10

American Electric Fusion Corp
2600 Diversey Ave Chicago 47 Ill 23

American Electronic Laboratories
121 N 7 St Philadelphia 6 Pa 3-4-6-12-13

American Electronics Inc 1-2-3-4-6-8-9-10-11-12-13-14-17-19-20-22

655 W Washington Blvd
Los Angeles 16 Calif 17-19-20-22

American Gyro Corp
3030 Nebraska Ave Santa Monica Calif 22

American Machine & Foundry Co Defense Products Group 1101 N Royal St
Alexandria Va 2-3-4-7-8-10

American Rectifier Corp
95 Lafayette St
New York 13 NY 2-3-4-6-8-9-10-11-12-13-16-17-20-23-24

American Research & Mfg Corp
920 H Alpine Ave
Rockville Md 1-2-3-4-6-8-10-11-12-13-16-17-19-20-22-23-24

American Speedlight Corp
63-01 Metropolitan Ave
Middle Village 79 NY 4

American Television & Radio Co
300 E 4 St
St Paul 1 Minn 1-3-6-9-12-13-17-22-25

American Time Products Inc
580 5 Ave New York 36 NY 1

American Transformer Co
Div Standard Electronics
285 Emmett St Newark 5 NJ 4-6-11-24

Amu Inc Caplton Div
1515 Park Ave
Elizabethtown Pa 3-4-6-10-11-12

Amp Inc
Eisenhower Blvd Harrisburg Pa 4

Amplifier Corp of America
398 Broadway
New York 13 NY 1-3-6-11-12-14

Antron Corp
17 Felton St Waltham 54 Mass 5-4

Anchor Products Co
2712 W Montrose Ave Chicago 18 Ill 24

Antennavision Inc
2949 W Osborn Phoenix Ariz 3-5-7-11

Applegate & Co C J
1840 24 St
Boulder Colo 3-4-5-8-11-12-13-24

Applied Radiation Corp
2404 N Main St Walnut Creek Calif 4-5-12

Arnold Magnetics Corp
4613 W Jefferson Blvd
Los Angeles 16 Calif 13

Arnold Corp
11924 W Washington Blvd
Los Angeles 66 Calif 1-2-3-4-6-8-11-17-22

Assembly Products Inc
75 Wilson Mills Rd Chesterland Ohio 12

Associated Eng Corp
65 Kent St Brookline 46 Mass 3-11

Associated Research Inc
3111 W Belmont Ave
Chicago 18 Ill 1-3-4-6-12

Associated Specialties Co
1751 Main St Orefield Pa 11

Atchley Inc Raymond
2340 Saxtella Blvd
Los Angeles 64 Calif 3-13

Atlantic Research Corp
901 N Columbus St Alexandria Va 12

Atlas Eng'g Co
176 Blue Hill Ave Roxbury 19 Mass 1-11

Atlas Precision Products Co
3801 Castor Ave Philadelphia 24 Pa 12-13-23

Audicon Electronics Inc
216 Lyon St
Paterson 4 NJ 6-8-10-11-12-13-17-20-21-22-24-26

Authorized Mfrs Service Co
819 Wyckoff Ave Brooklyn 27 NY 3-6

Automatic Electric Co
1033 W Van Buren St Chicago 7 Ill 3-6

Auto Test Inc
600 S Michigan Ave
Chicago 6 Ill 1-3-4-6-9-11-12

Avion Div ACF Industries Inc
11 Park Pl
Paramus NJ 1-7-8-11-12-13-20-22

Avionics Ltd P O Box 200
Niagara-on-the-Lake
Ontario Canada 12-15-23

Axler Associates Inc
102-42 43 Ave New York 68 NY 1-5-11

Baird-Atomic Inc
33 University Rd
Cambridge 38 Mass 1-2-3-4-12

Hallantine Labs Inc
Bramton NJ 22

Barker & Williamson Inc
Canal & Beaver Sts Bristol Pa 14

Harry Electronics Corp
512 Broadway New York NY 4-12-26

Harwood Electronics Inc
921 E Broadway
Glendale 6 Calif 1-3-6-8-11

Beckman Helipot Corp
Newport Beach Calif 24

Beckman/Berkeley Div Beckman Instruments Inc
2200 Wright Ave Richmond 3 Calif 2

Beckman Instruments Inc Data & Control Systems Scientific Instrument Div
325 N Muller Ave Anaheim Calif 17

Behlman Eng'g Co
2911 Winona Ave Burbank Calif 1-2-14

Bendix Aviation Corp Red Bank Div
Rt 35
Eatontown NJ 1-2-3-4-5-6-7-8-9-10-11-12-13-14-16-17-19-20-21-22-23-24

Bendix Aviation Corp
1104 Fisher Bldg
Detroit 2 Mich 1-3-5-13-17-22-23-24

Bergen Labs
247 Crooks Ave
Clifton NJ 1-3-8-11-12-13-17-24

Beta Electric Div Sorenson Co
333 E 103 St New York 29 NY 1-3-4-5-11-12

Beva Laboratory
1640 N Olden Ave Ext Trenton 8 NJ 4

Blunder-Tongue Laboratories 9-25 Alling St Newark 2 NJ Bugie Electric Mfg Co 52 Iowa Ave Pateron 3 NJ 1-2-3-4-6-11-12-13-14- 16-17-19-20-22-23-24	19	Control Corp 718 Central Ave NE Minneapolis 14 Minn 3	Electronic Assembly Co 5 Prescott St Roxbury 19 Mass 1-2-3-6-8-11-13-24
Bolton Labs Inc W Main St Bolton Mass 7-10-11		Control Electronics Co Inc 1925 New York Ave Huntington Sta NY 1-3-5-11-12-14-22	Electronic Associates Inc Long Branch NJ 1-2-4-6-11-12-13
Bnoth Co Arthur E 265 S Alexandria Ave Los Angeles 4 Calif 1-3-6-12		Cook Co Frank R 36 S Santa Fe Dr Denver 23 Colo 3-6-9-12	Electronic Communication Equipment Co 1249 W Loyola Ave Chicago 26 Ill 3
Bracke Seib X Ray Co 16 Pelham Bay Pk W Pelham Manor NY 3-4-12		Cornell-Dubilier Electric Corp 333 Hamilton Blvd S Plainfield NJ 22-25	Electronic Communications Inc 1501 72 St St Petersburg Fla 10-12-14
Bradley Labs Inc 168 Columbus Ave New Haven Conn 3		Creative Electronics Corp 84 Lincoln Ave Stamford Conn 1-3-4-6-7-8-9-11-13	Electronics Engr Co of Calif 1601 E Chestnut St Santa Ana Calif 11
Briatol Co P O Box 1790 El Waterbury Conn 15-17-22		Crescent Engr & Research Co 5410 N Peck Rd El Monte Calif 17-19-20-22	Electronic Instrument Co 84 Withers St Brooklyn 11 NY 17
Browning Labs Inc 750 Main St Winchester Mass 5-7		Cubic Corp 5575 Kearny Villa Rd San Diego 11 Calif 3-5-7-16-17	Electronic Measurements Co Lewis St & Maple Ave Eatontown NJ 13-17-20-22-23-24
Huck Eng'g Co 37 Marcy St Freehold NJ 3-6-12		Curtiss-Wright Corp Electronics Div 631 Central Ave Carlstadt NJ 1-2-3-6-11-12-13-15-16-24	Electronic Measurements Corp 625 Broadway New York 12 NY 3
Hulova Watch Co Electronics Div 40-61 61 St Woodside 77 NY 16-19-21		Dallons Labs 5066 Santa Monica Blvd Los Angeles 29 Calif 26	Electronic Production & Development 139 Nevada St El Segundo Calif 1-3-4-6-11-12-13-17
Hundy Electronics Corp 171 Fahyan Pl Newark 12 NJ 1-3		Dalmator Co Div Dalmo Victor Co Div Texton Inc 1375 Clay St Santa Clara Calif 17-19-20-22	Electronic Research Associates 67 Factory Pl Cedar Grove NJ 13-17-19-20-22-23-24
Huss-Clement-Doughton & Associates 201 B Studio Hill Chester Springs Pa 12		Datsman Inc 48 Notch Rd Little Falls NJ 16-17-20-23-24	Electronic Specialty Co 5121 San Fernando Rd Los Angeles 39 Calif 16-17-19-20-21-22-23-24
Hutcher Co L H 3624 E Olympic Blvd Los Angeles Calif 3-4-16-17-23-24		Daven Co Route 10 Livingston NJ 12-13-22-23-24	Electro Products Labs Inc 4501 N Ravenswood Ave Chicago 40 Ill 3-6-13
Cable Electric Products 234 Daboll St Providence 7 RI 1-3-6		Davenport Mfg Co 1713 N Ashland Ave Chicago 22 Ill 1-2-3-4-6-11-12-13-16-23-24	Electrologica Co 7436 Varva Ave N Hollywood Calif 1-3-11-13-17-22
Caledonia Electronics & Transformer Corp P O Box 298 Caledonia NY 4-10		Dearborn Electronic Labs Inc 1421 N Wella St Chicago 10 Ill 3-11	Elk Electronics Labs Inc 333 W 52 St New York 19 NY 11-12
Calif Magnetic Control Corp 11922 Valerio St N Hollywood Calif 11-12-13-20		Del Electronics Corp 321 Homestead Ave Mt Vernon NY 1-3-4-12	Empire Devices Products Corp 38-15 Bell Blvd Bayside 61 N Y 12-14
Canadian Applied Research Ltd 1500 O'Connor Dr Toronto 14 Can 3		Deltron Inc 2905 N Leithgow St Philadelphia 33 Pa 12-13-14-16-17-22-23-24	Empire Product Sales Corp 37 Prospect St Amsterdam NY 1-4-12-14
Canadian Aviation Electronics Ltd 6214 Cole de Liesse Rd St Laurent Quebec Canada 13		Demornay-Bonardi Corp 780 S Arroyo Pkwy Pasadena Calif 5-7	Endevco Corp 161 E California St Pasadena Calif 11
Canadian Curtiss-Wright Ltd 1900 Sherbrooke St W Montreal Que Canada 1-4-11-10-24		Designers For Industry 4241 Fulham Pkwy Cleveland 9 Ohio 19-20-21-22-26-27	Engineered Magnetics Div Gulton Industries Inc 13030 Cerise Ave Hawthorne Calif 16-17-19-20-22-23-24
Capitol Transcription Service 1120-A Conn Ave NW Washington 6 DC 1-4-6		Dialtron Co 3327 Dixie Dr Houston 21 Texas 12	Engineering Associates 434 Patterson Rd Dayton 9 Ohio 12-14-19
Carad Corp 2850 Hay Rd Redwood City Calif 4-5		Digital Equip Corp Maynard Mass 6-11-12-13	Entron Inc 4902 Lawrence St Bladensburg Md 1-3
Carol Electronics Corp 315 W Stephen St Martinsburg W Va 3-6-12		Douglas Radio Labs 176 Norfolk Ave Boston 19 Mass 11	Fansteel Metallurgical Corp 2200 Sheridan Rd N Chicago Ill 3
Cartier Motor Co 2711 W George St Chicago 18 Ill 9-17-19-22		Dresson-Harnes Corp 250 N Vinedo Ave Pasadena Calif 2-3-4-6-7-9-10-11-12-13	Federal Mfg & Engr Corp 1055 Stewart Ave Garden City NY 3
Central Electronic Mfrs Inc Sub Nuclear Corp of America 2 Riehwold Pl Denville NJ 12		Dukane Corp St Charles Ill 12-13	Ferris Instrument Corp 110 Cornelia St Rounton 1 NJ 11
Central Transformers Co 900 W Jackson Blvd Chicago 7 Ill 4-24		Dumont Labs A B 750 Bloomfield Ave Clifton NJ 25	Ferrotron Electronics Co 693 Broadway New York 12 NY 3-6-8-11-13-17-22-24
Centronix Inc 34 Oleander St Cocoa Fla 12		Dunlap Electronics 764 9 St Des Moines 14 Iowa 3-9-13	Film Capacitors Inc 3400 Park Ave New York 56 NY 3-4-12
Century Coil Corp 1534 N Clybourn Ave Chicago 10 Ill 4		Dynac Inc 395 Page Mill Rd Palo Alto Calif 11	First Electronics Corp 117 Blue Hill Ave Boston 19 Mass 1-3-4-6-9-11-12
CG Electronics Corp 1500 Central Albuquerque New Mex 13		Dynalysa Development Labs Inc 1941 Wilshire Blvd Los Angeles 25 Calif 11-12-16	Fleetwood Labs Inc 300 Victory Blvd New Rochelle NY 4
Chatham Electronics Div Gera Corp W Mt Pleasant Ave Livingston NJ 3-4-11-12		Dynamic Control Co 1055 Massachusetts Ave Cambridge Mass 2-3-6-11-12-13-16-23-24	Fluke Mfg Co John 1111 W Nickerson St Seattle 99 Wash 3-4-5-6-11-12-13
Christie Electric Corp 3410 W 67 St Los Angeles 43 Calif 3-6-9-11-12-17		Dynamic Development Co 59 New York Ave Westbury NY 1-17	Photo-Video Labs Inc 25 Amity St Little Falls NJ 3-4-6-11-12
Cinema Eng'g Div Avonox Corp 1100 Chestnut St Burbank Calif 3		Dynatron Electronics Inc 73-29 Woodhaven Blvd Forest Hills NY 1-3-12	Fox Products Co 4720 N 18 St Phila 41 Pa 12
Cinema-Television Ltd Worsley Bridge Rd Lower Sydenham London SE 26 England 11-24		Dynamic Instrument Corp 59 New York Ave Westbury NY 1-12	France Mfg Co 10325 Bera Rd Cleveland 2 Ohio 12
Clegg Labs Div Clegg Inc Ridgedale Ave Morristown NJ 3-4-5-7-11-12		Dynamics Instrumentation Co Div Alberhill Corp 1118 Mission St S Pasadena Calif 3-4-6-11-12-18	Freed Transformer Co 1718-36 Weirfield St Brooklyn 27 NY 1-3
Coil Company of America 212 Washington St Northvale NJ 1-3		Dynamics Research Associates Div Universal Match Corp P O Box 5841 Ferguson 21 Mo 1-3-11-16-17-18-19	F-R Machine Works Inc Electronic & X-Ray Div 26-15 Horough Pl Woodside 77 NY 5-7-11-12
Collcraft Inc Cary Ill 13		Dynatronic Inc 717 W Amelia Ave Orlando Fla 3-8-11-12-13-20	Furzehill Labs Ltd 67 Clarendon Rd Watford England 3-11-13
Coils Electronics Co 2939 49 N 2nd St Phila 33 Penna 3-11-12		Eberline Instrument Div Reynolds Electrical 805 Early St Santa Fe N Mex 8-13	Garrett Corp Aircsearch Mfg Co Div 9851 Sepulveda Blvd Los Angeles 45 Calif 1-2-3-4-9
Collins Radio Co 855 35 St NE Cedar Rapids Iowa 7-13		Ecor Inc 4235 W North Ave Chicago 59 Ill 13-17-19-20-22	Gates Electronics Co 2090 Barnes Ave Bronx 62 NY 3-4-6-9-11-12
Communication Accessories Co U S 50 Hwy Lees Summit Mo 18-15-16-17-23-24		Ecor Inc 4235 W North Ave Chicago 59 Ill 13-17-19-20-22	Gates Radio Co 123 Hampshire St Quincy Ill 3-4-6-11-12-16
Communication Measurements Labs 350 Leland Ave Plainfield NJ 1		Ecor Inc 517 W Walnut St Ogelsby Ill 16-17-19-20-22-23-24	General Bronze Corp 711 Stewart Ave Garden City NY 8
Compton Corp 775 Pleasant St Belmont 79 Mass 1-2-13-14-19		Eldico Electronics 29-01 Harden Ave Long Island City 1 NY 1-3-4-6-9-11-12-13	General Communication Co 677 Beacon St Boston 15 Mass 12
Computer Eng'g Associates Inc 350 N Halstead St Pasadena Calif 2-3-6-9-11-12-13		Electronic Communications Inc 765 Clementina St San Francisco 3 Calif 1-3-6-9-12	General Controls Co 801 Allen Ave Glendale 1 Calif 24
Condenser Products Div New Haven Clock & Watch Co 140 Hamilton St New Haven 4 Conn 3-4-10-11-12		Electric Motors & Specialties King & Hampshire St Garrett Ind 19	General Electric Co Computer Dept 1103 N Central Ave Phoenix Ariz 2-13
Conrad Telephone & Electric Corp 70 Brittanis St Meriden Conn 6-11-12		Electric Products Co 1725 Clarkstone Rd Cleveland 12 Ohio 1-3-6-11-14-22	General Electric Co Apparatus Sls Div 1 River Rd Schenectady 5 NY 3-11-12-13-14-16-23-24
Consolidated Avionics Corp 800 Shames Dr Westbury NY 1-2-3-8-11-12-13-14-20-21		Electric Regulator Corp Pearl St Norwalk Conn 1-3-6-11-12-14-16-23-24	General Electric Co Rectifier Dept Mountain View Rd 1-2-3-4-6-8-9-10-11- Lynchburg Va 12-13-17-19-20-22-27
Consolidated Diesel Electric Corp 400 Canal St Stamford Conn 1-3-4-6-14		Electric Specialty Co 211 South St Stamford 1 Conn 1-3-4-6-9-10-11-14	General Electric Co Specialty Control Dept P O Box 812 Waynesboro Va 23-24
Consolidated Electrodynamics Corp 800 N Sierra Madre Villa Pasadena Calif 3-12-13		Electron Eng'g Works 401 Preda St San Leandro Calif 1-3-4-5-6-11-16-24	General Nuclear Corp 650 B Ave New York 32 NY 3-6-11-12
Continental Electric Co 325 Ferry St Newark 8 NJ 1-3-12-18-22		Electromotion Co 1446 18 St Santa Monica Calif 12-13	General Photo Products Co 15 Summit Ave Chatham NJ 17
Continental Electronics Mfg Co 4212 S Buckner Blvd Dallas 27 Texas 4-5-7-10			General Radio Co 275 Massachusetts Ave Cambridge 39 Mass 1-3-5-6-11-16-24
Continental X-Ray Corp 1534 N Clybourn Ave Chicago 10 Ill 4			Genico Inc 2233 Federal Ave Los Angeles 64 Calif 14
Control Circuits Inc 103 Court St Middletown Conn 4-12			Georator Corp P O Drawer 472 Manassas Va 1-3-12-19-22

Geotronic Labs Inc 1214 Cedar Hill Ave Dallas 8 Texas	17-22	Keithley Instruments Inc 12415 Euclid Ave Cleveland 6 Ohio	3-11	Manson Laboratories Inc 207 Greenwich Ave Stamford Conn	1-3-4-5-7-10-11-12
Gerat & Co Paul E 4868 N Clark St Chicago 40 Ill	1-3-11-12-16- 17-19-20-22-28-24	Kenyon Transformer Co 840 Barry St New York 59 NY	24	Marathon Electric Mfg Corp Randolph & Cherry Wausau Wis	1-3-4-6
Gordon Enterprises 5362 N Cabuena Blvd N Hollywood Calif	1-3-8-9-11-16-17-19-20-24	Keystone Products Co 904-6 23rd St Union City NJ	1-6-11-12-23-24	Matthew Labs 146 Riverdale Ave Yonkers NY	3-6-11-12-13-23-24
Goslin Electric & Mfg Co 2921 W Olive Ave Burbank Calif	1-3-4-6-11-24	Kinetics Corp 410 S Cedros Ave Solomon Beach Calif	1-3-6-8-11-12- 17-20-22-24	Maurer Inc J A 37-01 31 St Long Island City 1 NY	12-13
Gotham Audio Development Corp 2 W 46 St New York 36 NY	12-14	Kinex-Hallen Div Electromation Co 1646 18 St Santa Monica Calif	12-13	Maxson Corp W L 475 10 Ave New York 18 NY	4-5-7-10-11-12
Granger Associates 966 Commercial St Palo Alto Calif	1-3-4-5-7-10-11-12	Kintel 5725 Kearny Villa Rd San Diego 12 Calif	1-3-11	Measurement Eng's Ltd 232 John St Annprior Ontario Can	3-4-6-11-12
Green Rectifier Co 1-10 30 St Fairlawn NJ	1-3-3-4-5-8-9-11- 12-16-17-20-23-24	Kollmorgen Optical Corp 347 King St Northampton Mass	3	Menlo Park Eng'g 721 Hamilton Ave Menlo Park Calif	7-11-13
Guild Electronics Inc 388 Broadway New York 13 NY	3-12	Krohn-Hite Corp 500 Massachusetts Ave Cambridge 39 Mass	3-11	Mercury Electronic Co Box 450 B Red Bank NJ	1-2-3-6-8-11-12-13-20-22
Gulton Industries Inc 212 Durham Ave Metuchen NJ	1-2-3-6-7-8-9-10- 11-12-13-17-22	Kurman Electric Co 191 Newel St Brooklyn 22 NY	25	Mid-Century Instrument Corp 611 Broadway New York 12 NY	2
Haus Chemicals & Controls Inc 343 4 Ave Pittsburgh 30 Pa	3-11-12-23	Kuss Industries Inc Taunoy & Lewis St Philadelphia 24 Pa	1-12-27	Midwestern Instruments P O Box 7186 Tulsa Okla	3
Hallamore Electronics Co 5362 Brookhurst Ave Anaheim Calif	1-3-11-12-13-17-19-20-22-24	Laboratory For Electronics Inc 75 Pitts St Boston 14 Mass	2-3-4-5-6-7-8-9-10- 11-12-13-16	Milgo Electronic Corp 7601 N W 37 Ave Miami 47 Fla	2-3-11-12
Haller Raymond & Brown Cireleville Rd State College Pa	1-2-3-4-5-6-7-8-9-10-11-12- 13-14-15-16-17-19-20-21-22	Lambda Electronics Corp 11-11 121 St College Point 56 NY	2-3-6-7-11-12-13-24	Millen Mfg Co James 150 Exchange St Malden 48 Mass	3-4-6
Hall-Scott Inc 2950 N Ontario St Burbank Calif	1-2-3-11-12-18	Lambda-Pacific Eng'g Inc 14725 Arminia St Van Nuys Calif	7	Miller Co Sanford 691 Bedford Ave Brooklyn 6 NY	3-4
Hammer Electronics Co P O Box 531 Princeton NJ	3-4-6-11	Land-Air Inc Instrument & Electronic Div 2133 Adams Ave San Leandro Calif	3-12	Minn-Honeywell Regulator Co Ordinance Div 600 2 St N Hopkins Minn	13-16-22
Harrison Labs 45 Industrial Rd Berkeley Heights NJ	2-3-4-6-8-10-11- 12-13-23-24	Land-Air Inc 744 W Wilson Ave Chicago 31 Ill	8	Minn-Honeywell Regulator Co Instruments Div Wayne & Windrim Aves Philadelphia 44 Pa	17
Harvey-Wells Electronics Inc North St Southbridge Mass	2-12-18	Langwin Mfg Corp 47-37 Austell Pl Long Island City 1 NY	1-3-4-6-8-9-10- 12-13-15-22-24	Missileconics Inc 10 Box 716 Melbourne Fla	3-11-12-24
Hazeltine Electronics Div/Hazeltine Corp 59-25 Little Neck Pkwy Little Neck 62 NY	1-3-4-5-6-10	Lawn Electronics Co E Freehold Rd Freehold NJ	2-3-5-6-8-10-11-12-22	Mitel Rectifier Corp 1065 Utica Ave Brooklyn 3 NY	2-3-6-13-17
Heath Co 305 Territorial Rd Benton Harbor Mich	8-11	Leach Corp-Inet Div 18435 Susana Rd Compton Calif	1-2-3-4-6-9-10- 11-12-14-23-24	Modern Industries Inc 2601 Colorado Ave Santa Monica Calif	1-2-3-4-5-6-8-10-11-12- 13-16-17-18-20-22-24
Heinz Mueller Eng'g Co 1906 N Cicero Ave Chicago 39 Ill	8-8-9-22	Leary Inc 3171 S Bundy Dr Santa Monica Calif	1-3-8-11-12-13-17	Mohawk Business Machines Corp 94 Halsey St Brooklyn 33 NY	1-25-26
Hewlett-Packard Co 275 Page Mill Rd Palo Alto Calif	3-4-5-18	Lee Electric & Mfg Co 2806 Clearwater St Los Angeles 39 Calif	24	Moloney Electric Co 5890 Birchler Blvd St Louis 20 Mo	3-4-5-10
Hewson Co 443 Broad St Newark 2 NJ	3-4	Leeds & Northrup Co 4970 Stenton Ave Philadelphia 44 Pa	3-12-15	Morrow Radio Mfg Co 2794 Market St Salem Oregon	1-3-9
Higland Eng Co 90 Magnolia St Westbury NY	1-6-12	L. E. E. Inc 625 N Y Ave N W Washington 1 DC	1-2-3-4-5-6-7-8-11- 12-13-14-17-19	Motordyne Inc 2661 S Myrtle Ave Monrovia Calif	1-2-3-4-5-6-8-9-10-11-12- 13-14-17-19-20-22-23-24
Huffman Electronics Corp 3761 S Hill St Los Angeles 7 Calif	8-10-12-13	Leland Electric Co Div AMF 1501 Webster St Dayton 1 Ohio	1-3-12-17-18-22	Motoresearch Co 1600 Junction Ave Racine Wis	1-3-6-11-12
Huffman Semiconductor Div Hoffman Electronics Corp 930 Pinner Ave Evanston Ill	24	Leland Electric Co Aircraft Products Plant 740 E National Rd Vandalia Ohio	1-3-11-12-13-17-22-23-24	Multi-Amp Corp 465 Lehigh Ave Union NJ	1-3-6-9-11-12
Holland Electronics 772 E 53 St Brooklyn NY	13-14-19-22	Levinkurt Electric Co 1195 County Rd San Carlos Calif	1	Multi-Products Co 21470 Conduite Hwy Oak Park 37 Mich	1-9-12-13
Holt Instrument Labs Div Holt Harkwood Co Inc Oronto Wis	1-11-12-14-16-17-24	Levinthal Electronic Products Inc 3130 Hanover St Palo Alto Calif	4-5-7-10-11	National Aircraft Corp 3411 Tulare Ave Burbank Calif	1-2-3-4-5-6-8-10-11-12- 13-14-17-18-19-23-24
Hometel Div Textron Inc 87 Riverdale Ave Port Chester NY	1	Librascope Inc Commercial Div 133 E Santa Anita Ave Burbank Calif	12	National Capacitor Co 14 Webster St Brookline 46 Mass	3-4-8-12
Hoover Electric Co 2100 S Stoner Ave Los Angeles Calif	1-3	Ling Electronics Inc 9937 Jefferson Blvd Culver City Calif	4	National Raster Inc 475 Washington St Newark 2 NJ	9-11
Hoover Electronics Co Instrumentation Div 1122 C San Mateo SE Albuquerque N Mex	11	Ling Inc 4101 San Fernando Rd Glendale 4 Calif	1-3-4-6-8-9-10-11- 12-13-17-20	Navigation Computer Corp 1621 Snyder Ave Phila Penna	3-6-11-13
Hoover Electronics Co 112 W Titanium Rd Timonium Md	2-3-11-12-13	Liquidometer Corp 41-03 36 St Long Island City 1 NY	12	Neff Instrument Corp 2211 F Foothill Blvd Pasadena Calif	3-6-8-11-13
Harlicke Co Wm J 266 Summer St Boston 10 Mass	14	Liton Industries of Calif 336 N Foothill Rd Beverly Hills Calif	1-3-11-12-14	Network Mfg Corp 213 W 5 St Bayonne NJ	1-3-4-6
Hyperion Inc 1447 Washington St W Newton Mass	1-3-3-4-6-11-12-13-14- 16-17-19-20-22-23-24	Liton Industries Electronic Display Lab 1476 66 St Emeryville Calif	4-8-11-12	Neutronic Associates 93 14 101 Ave Ozone Park NY	1-3-4-6-11-12
Ideal Electric & Mfg Co 300 E 1 St Mansfield Ohio	1-2-3-4-6-9-10- 11-12-14-17-19	McDowell Electronics Inc 105 Forrest St Metuchen NJ	1-3-4-6-11-12	Nevada Air Products Co P O Box 2472 Reno Nev	26
Indikon Co 76 Coolidge Hill Rd Watertown 72 Mass	12	McKenna Laboratories 2503 Main St Santa Monica Calif	26	NJE Corp 345 Carnegie Ave Kearlworth NJ	1-2-3-4-5-6-7-8-9-11-13- 13-16-17-20-22-23-24
Industrial Research Lab Div Aerona Mfg Corp Hilltop & Fredericks Rds Baltimore Md	1-2-3-4-6-7-8-11-12-19	Mararr Inc 2343 Roster Rd New York 67 NY	3-6	Non-Linear Systems Inc Del Mar Airport Del Mar Calif	17
Ind Test Equip Co 55 E 11th St New York 8 NY	3-6-11-15	Mack Electronics Div Inc 1090 S 2 St Plainfield NJ	1-3-4-12-13-14	Norma Hoffman Bearings Corp Walker Div Hamilton Ave Stamford Conn	1-3-4-6-9-11-12
Induction Heating Corp 181 Wythe Ave Brooklyn 11 NY	19	Mack Electronics Div Mack Trucks Inc 40 Leon St Boston 15 Mass	13	Norrman Laboratories Ernst Williams Bay Wis	22
Industrial TV Inc 369 Lexington Ave Clifton NJ	3	Madrison Corp 525 Mincola Ave Carle Place NY	8-6-9-10-11-12-13-22	Northam Electronics Inc 2420 N Lake Ave Altadena Calif	3-11-12-13
International Business Machines Corp 690 Madison Ave New York 23 NY	2	Magnavox Corp 2181 Rueter Rd Ft Wayne 4 Ind	12-13	North American Instruments Inc 2420 N Lake St Altadena Calif	12-13
International Research Associates 2221 Ward Ave Santa Monica Calif	1-3-8-11-12-13-14-19-22	Magnavox Co 2131 Bueter Rd Ft Wayne Ind	1-3-6-13	Northeast Scientific Corp 617 Concord Ave Cambridge 38 Mass	11-23-24
Jack & Heints Inc 17600 Broadway Cleveland 1 Ohio	1-3-16-17-22-28-24	Magnavox Co 2131 Bueter Rd Ft Wayne Ind	1-3-6-13	Northeastern Eng'g Inc 25 S Bedford St Manchester NH	12
Jack Scientific Instrument Co Bill 143 Cedros St Solana Beach Calif	3	Magnetnet Circuit Elements Inc 3722 Park Pl Montrose Calif	3-11-16-22-24	North Electric Co 553 S Market St Galion Ohio	1-3-6
Jefferson Electronic Products Corp 322 State St Santa Barbara Calif	13-14-17-19-20-23-24	Magnetic Controls Co 6403 Cambridge St Minneapolis 16 Minn	1-2-3-6-8-11-12- 13-16-17-23-24	Nuclear-Electronics Corp 2632 W Cumberland St Philadelphia 32 Pa	3-4-11-12-13-14
Julie Research Lab 566 W 168 St New York 82 NY	12	Magnetic Instrument Co 546 Commerce St Thornton NY	6-12-13-17-22-27	Nutron Mfg Co Inc 67 Monroe Ave Staten Island 1 NY	1-3-6-11-13
Kahn & Co 541 Windsor St Hartford 1 Conn	3-4	Magnetic Research Corp 3160 W El Segundo Blvd Hawthorne Calif	2-3-6-11-24	NVT Electronics Inc 2979 N Ontario St Burbank Calif	12
Kaiser Aircraft & Electronics Corp Toledo Electronics Div P O Box 437 Toledo Ohio	1-2-3-4-12-22	Maco Co Inc 21 N 3rd St Minneapolis 1 Minn	13-22	Oak Mfg Co 1260 W Clybourn Ave Chicago 10 Ill	15-22-25
Kato Eng'g Co 1415 1 Ave Mankato Minn	1-3-4-14-17-19-20-22	Majestic Int'l Corp 79 Washington St Brooklyn 1 NY	11	Oltronix Co 235 Underwood Dr Atlanta 3 Ga	8-4-6-11
		Melrose & Co Inc P R 42 S Gray St Indianapolis 6 Ind	9-25	Opad Electric Co 69 Murray St New York 7 NY	1-2-3-4-5-6-8-9-11-12- 13-14-16-19-24
		Mandrel Industrial Instruments Div Mandrel Industries Inc 5134 Glenmont Dr Houston Texas	3-8-9-11-12-14-22-24	Optimized Devices Inc Box 38 Gedner Sta White Plains NY	8-6-11
				Oregon Electronics Mfg Co 2105 SE 6 Ave Portland 14 Ore	3-11-12-13
				Ortho Filter Corp 196 Albion Ave Paterson 2NJ	1-2-3-6-8-9-11-12-13

Otis Elevator Co Electronic Div
35 Ryerson St
Brooklyn 5 NY 4-6-8-9-10-11-12

Owen Labs Inc
55 Beacon Pl
Pasadena Calif 3-6-11-12-13-14-23-24

Pacific Technical Co
2047 Sawtelle Blvd
Los Angeles 25 Calif 1-12

Packard Bell Electronics Corp
12333 W Olympic Blvd
Los Angeles 64 Calif 1-2-3-11-12-13-15-24

Packard Instrument Co
P O Box 428 La Grange III 4-11-12

Patterson Mosa Div Universal Winding Co
90-28 Van Wyck Expressway
Jamaica 18 NY 6-9-12-13-27

Peperina Electrical Products
1515 S Manchester Ave Anaheim Calif 4

Perkin Eng'g Corp
245 Kansas St
El Segundo Calif 14-16-17-19-20-21-22-23-24

Perma-Power Co
3102 N Elston Ave Chicago 18 III 13-24

Permoflux Products Co
4101 San Fernando Rd
Glendale 4 Calif 11-12-17-20

Peschel Electronics Inc
13 Garden St
New Rochelle NY 10-11-12-13

Pesco Products Div Borg Warner Corp
24700 N Miles Rd Bedford Ohio 22

Philbrick Researches Inc George A
230 Congress St Boston 10 Mass 2-3-11-16-24

Phoenix Precision Instrument Co
3803 N 5 St Philadelphia 40 Pa 3-11-12

Pioneer Gen-E-Motor Corp
5841 W Dickens Ave Chicago 30 III 1-3

Plastic Capacitors Inc
2620 N Clyburn Ave
Chicago 14 III 1-2-3-4-5-8-10-11-12-13

Polair Electronics Corp
43-20 34 St
Long Island City 1 NY 4-5-6-7-11-12

Polytechnic Research & Development Co
202 Tillary St Brooklyn 1 NY 6-7

Polytron Eng'g Inc
92 W Biddle St Baltimore 1 Md 8-13

Potter Aeronautical Corp
Route 22 Union NJ 19

Potter Co
1950 Sheridan Rd
N Chicago III 1-2-3-4-10-11

Power Designs Inc
88-28 138 St
Richmond Hill 18 NY 2-3-4-5-6-7-8-10-11-12-13-20-22

Power Sources Inc
South Ave
Burlington Mass 17-19-20-22-23-24

Power Supplies Inc
1005 Olive St
Highland III 11-12-13-14-16

P. H. Albert
114 W Lake View Ave Milwaukee 17 Wis 9

Precise Measurements Corp
Rd 1 Millbrook Rd
Flemington NJ 17-23-24-25

Pressman Associates
7803 Farnsworth St Philadelphia 15 Pa 11-13

Pres-Wireless Inc
25 Prospect Pl W Newton 65 Mass 4

PSC Applied Research Ltd
1500 O'Connor Dr Toronto 16 Canada 3

Pye Telecommunications Ltd
Newmarket Rd Cambridge England 24

Q O S Corp
Bronx Blvd at 216 St New York 67 NY 4-13

Quantum Electronics Inc
2312 Wisconsin St NE
Albuquerque N Mex 3-11-12-17-18-22

Radiant Corp
3455 Vega Ave Cleveland 13 Ohio 17-18-20-25

Radiation Counter Labs Inc
5121 W Genoa St Skokie III 4

Radiation Instrument Co
P O Box 733 Silver Spring Md 4

Radiation Instrument Development Lab Inc
5737 S Halsted St Chicago 21 III 4

Radio City Products Co
Centre & Glendale Sta Easton Pa 3-10-11-12

Radio Corp of America
Commercial Electronic Products
Front & Cooper Sta Camden NJ 11

Radio Eng'g Labs
29-01 Borden Ave Long Island City 1 NY 5

Radio Frequency Co
44 Park St Medfield Mass 1-3-4-11-12

Radio Frequency Labs Inc
Roseton NJ 14

Radionics Inc
P O Box 186
Cockeysville Md 1-3-4-6-8-11-12-13

Ram Meter Inc
1100 Hilton Rd Ferndale 20 Mich 12

Ramo-Wouldridge Corp
5730 Arbor Vitae St
Los Angeles 45 Calif 3-8-18

Ramo-Wouldridge Corp
Electronic Instrumentation Div
P O Box 8405
Denver 10 Colo 2-3-8-11-12-13-16-22-23-24

Ransington Inc
73 Winthrop St Newark 4 NJ 14-22

Ransom Research
Box 259 323 W 7 St
San Pedro Calif 2-3-6-11-13

Raypar Inc
7800 W Addison St Chicago 34 III 3-9-22-24

Raytheon Mfg Co Commercial Equip Div
100 River St Waltham 54 Mass 24

Raytheon Mfg Co
100 River St Waltham 54 Mass 7-24

Rea Co J R
1723 Cloverfield Blvd
Santa Monica Calif 2-11-12-14

Reeves Instrument Corp
Roosevelt Field Garden City NY 2-3-6-24

Reflectone Corp
Boston Post Rd Stamford Conn 1-3-11-14

Reliance Electric and Eng'g Co
24701 Euclid Ave
Cleveland 17 Ohio 3-11-12-16-23-24

Republic Aviation Corp
Farmingdale LI
New York 3-6-9-11-12-13-16-23-24

Resdel Eng'g Corp
330 S Fair Oaks Ave
Pasadena Calif 1-3-4-5-6-7-10-11-12-14

Research Industrial Lab of Electronics
Roslyn Pa 4

Resitron Labs Inc
2508 Nebraska Ave
Santa Monica Calif 8-4-12

Rho Eng'g Co
2242 Sepulveda Blvd
Los Angeles Calif 1-2-3-4-8-11-12-13-17-22

Rheem Mfg Co Electronics Div
7777 Industry Ave
Downey Calif 3-8-11-12-13-17-25-24

Richardson-Allen Corp
116-15 15 Ave
College Point 56 NY 3-4-5-6-8-9-11-12-23-24

Riaco
265 Minna St San Francisco 3 Calif 1-12

Riverbank Labs Eng'g Dept
P O Box 65 Geneva III 12-19

RS Electronics Corp
P O Box 368 Sta A
Palo Alto Calif 3-10-12-13-17

Rue Products
1628 Venice Blvd
Venice Calif 12-13-14-16-17-19-20-22-23-24

Sanford Miller Co
691 Bedford Ave Brooklyn NY 3-6

Sangamo Electric Co
11 & Converse
Springfield III 1-3-4-6-8-10-11-12-17-19-22

Saratoga Industries
Congress & Ballston Aves
Saratoga Springs NY 1-2-3-4-5-6-7-8-10-11-12-13-17-20-23-24

Schaerer Mfg Corp
4301 Alpine Ave Russumy Ohio 3

Schindlers
2429 Beverly Ave Santa Monica Calif 3-11

Scientific Eng'g Lab
2436 Sacramento St Berkly Calif 3-12

Scientific Electric
105 Monroe St Garfield NJ 1-3-4-6-11-12-14

Seco Mfg Co
5015 Penn Ave S
Minneapolis 19 Minn 3-13

Seg Electronics Co Inc
1778 Flatbush Ave Brooklyn 10 NY 4-11

Sel Rex Corp
75 River Rd
Nutley 10 NJ 3-4-5-6-8-9-10-11-12-13-14-20-23-24

Semcom
262 E 16 St
Paterson 4 NJ 2-3-4-6-8-11-12-13-17-20-22-23-24

Seneca Falls Machine Co
214 Fall St Seneca Falls NY 3

Service Instruments Corp
171 Official Rd Addison III 8

Servo Corp of America
2020 Jericho Turnpike
New Hyde Park NY 12

Servomechanisms Inc
12500 Aviation Blvd
Hawthorne Calif 11-12-13-16-17-22

Servomechanisms Inc
1200 Prospect Ave Westbury NY 3-5-13

Servo-Recording Instruments Inc
1815 W Van Buren St Phoenix Ariz 4-13

Servo-Tek Products Co
1086 Goffe Rd Hawthorne NJ 11-12-24

Sheppard Co R H
101 Philadelphia St Hanover Pa 9-10

Simmonds Accessories Inc
Verennes Vt 12-15-17-22

Simpson Mfg Co Mark
32-28 49 St Long Island City 3 NY 17

Skiatron Electronics & TV Corp
180 Varick St New York 14 NY 3-4-6-8-11

Skywreper Inc
P O Box 92 McHenry III 1-2-3-4-6-12

Slaughter Co
Young & College Sts
Ft Worth 9 Ohio 1-3-4-12

Small Motors Inc
2076 Elston Ave Chicago 14 III 17-22

Sola Electric Co
4633 W 16 St Chicago 50 III 3-11-12-13-24

Solartron Electronic Group Ltd
Queens Rd Thames Ditton
Surrey England 2-3-6-11-12-13-15-16

Sorensen & Co
Richards Ave Norwalk Conn 3-4

B O S Cimena Supply Corp
602 W 62 St New York 19 NY 1-3-9-11-12

Southwestern Industrial Electronics Co
2381 Post Oak Rd
Houston 19 Texas 2-3-4-6-9-11-12-13-17

Specialty Eng'g & Electronics Co
79 Clifton Pl Brooklyn 38 NY 2-24

Specific Electronics
1995 N Fair Oaks Ave
Pasadena Calif 3-4-6-8

Specific Products Co
21051 Costamae Woodland Hills Calif 3

Spellman TV Co
3029 Webster Ave
New York 67 NY 3-4-6-8-11-26

Spencer-Kennedy Labs Inc
1320 Soldiers Field Rd Boston 35 Mass 19

Sperry Gyroscope Co
Microwave Electronics Div
Great Neck NY 5

Spivey Inc James S
4908 Hampden Lane Washington 14 DC 1-4-6

Stancil-Hoffman Corp
921 N Highland Ave Hollywood 38 Calif 11

Standard Electric Time Co
4516 Rockwell St
Standard Electronics Div Radio Eng'g Labs
30 & Borden Sts
Long Island City NY 3-4-5-6-11-12-16-24

Stanley Aviation Corp
2501 Dallas St Denver Colo 3-11

Statham Labs Inc
12401 W Olympic Blvd
Los Angeles 64 Calif 6-11-12

Statistical Instr Co
330 Haven Ave
New York 33 NY 3-6-8-11-12-16-24

Stelma Inc
190 Henry St Stamford Conn 11

Stevens-Arnold Inc
7 Elkins St South Boston 27 Mass 15

Stewart & Stevenson Service
4516 Harrisburg Blvd
Houston 1 Texas 1-3-9

Strong Electric Corp
87 City Park Ave Toledo 1 Ohio 3-6-12

Summit Electronic Products
14706 Arminia St
Van Nuys Calif 3-10-11-12-16-22-24

Sun Electric Corp
Harlem & Avondale Ave
Chicago 31 III 9-12-14

Superior Electric Co
83 Laurel St Bristol Conn 1-3-24

Sylvania Electric Products
60 Boston St Salem Mass 3

Systems Development Inc
307 Water St Binghamton NY 4-11-12

Systrom Corp
2055 Concord Blvd Concord Calif 19

Taffet Radio & TV Co
27-05 Brooklyn-Queens Expressway W
Woodside 77 NY 1-3-4-6-11-12

Tare Electronics Inc
48 Urban Ave Westbury LI NY 11

Tarxian Inc Sarkes
415 N College Ave Bloomington Ind 1-5-7-11

Technical Material Corp
700 Fenimore Rd Mamaroneck NY 3

Technical Oil Tool Corp
1057 N La Brea Los Angeles 38 Calif 1-3-4-7

Teletchrome Mfg Corp
28 Ranick Dr
Amityville LI NY 1-2-3-4-6-8-11-12-13

Teletro Industries Corp
35-18 37 St
Long Island City 1 NY 1-2-3-4-5-6-7-9-10-11-12-13

Tele-Dynamics Inc
51st & Parkside Ave Philadelphia 4 Pa 12

Telephonics Corp
Park Ave Huntington LI NY 1-3-8-11-12

Telerad Mfg Corp
Route 69 Flemington NJ 5-7-10-12

Telerad Mfg Corp
1440 Broadway New York 18 NY 5-7-10-13

Teletronics Lab Inc
54 Kinkel St Westbury NY 11-12

Televico Corp
1415 Golf Rd Des Plaines III 1-4-6-10-12

Tel-Instrument Electronics Corp
728 Garden St Carlstadt NJ 11-12-14-19-24

Telkor Inc
Box 186 Elyria Ohio 1-3-12-17-19-22-25

Temo Aircraft Corp
P O Box 6191 Dallas 2 Texas 22

Tempo Instrument Inc
240 Old Country Rd Hickville NY 13-23-24

Teraco Co
1058 Raymond Ave
St Paul 14 Minn 3-8-9-20-22

Texas Instruments Inc
6000 Lemmon Ave Dallas 9 Texas 3-8-10-13

Texas Instruments Inc Industrial
Instrumentation Div 8609 Buffalo
Speedway Houston 6 Texas 13

Thompson Products Inc Electronics Div
2196 Clarkwood Rd Cleveland 3 Ohio 16

Top Industries Inc
8907 Wilshire Blvd
Beverly Hills Calif 1-3-8-10-11-12-13-17-22

Torontec Inc
5512 E 110 St Kansas City 34 Mo 13

Torwin Electronics Inc
1090 Morris Ave
Union NJ 3-11-12-13-16-17-22-24

Trans Electronics Inc
7849 Canoga Ave
Canoga Park Calif 1-2-3-4-6-8-11-12-13-16-20-22-23-24

Transformer Technicians Inc
2608 N Cicero Ave Chicago 39 III 3-6-12

Transistor Devices Inc
730 Blvd Kenilworth NJ 8-11-15-19-23-24

Transval Eng'g Corp
10401 W Jefferson Blvd
Culver City Calif 4-6-8-11-13

Tri-Tronics Co
2607 St Charles Rd Bellwood III 12

Trott Electronics Inc
412 Smith St
Rochester 6 NY 3-6-8-11-12-13-16

Tullamore Electronics Lab
6055 S Ashland Ave Chicago 36 III 3-4-11

UAC Electronics Div	
Universal Transistor Prods Corp	
50 Bond St	1-2-3-4-6-7-8-9-10-11-12-13-
Westbury LI NY	14-17-18-19-22
Ultradyn Eng'g Labs	
P O Box 3308	
Albuquerque New Mex	1-3-8-9-11-12-13-20-22
United Electrodynamics	
1200 S Marengo Ave	
Pasadena Calif	3-8-12-13-20-24
United Transformer Corp	
150 Varick St New York 13 NY	22-23-24
Universal Electronics Co	
1720 22 St Santa Monica Calif	2-3-6-11-12-13
Universal Scientific Co Inc	
1102 Shelby St Vincennes Ind	1-3-6-11-12
Universal Transistor Products Corp	
36 Sylvester St	1-2-3-4-5-6-7-8-9-10-11-12-13-
Westbury LI NY	14-16-17-19-20-21-22-23-24
U S Dynamics Corp	
1250 Columbus Ave	
Buston 20 Mass	1-3-4-6-8-12
U S Recording Co	
1347 S Capitol St Washington 5 DC	3
Valandy Electronics Corp	
61-35 166 St Flushing 68 NY	1
Varian Associates	
111 Hansen Way Palo Alto Calif	3-11-24
Varo Mfg Co	
2201 Walnut St	1-2-3-4-5-6-7-8-9-10-11-12-
Garland Texas	13-14-16-17-19-20-21-22-23-24
Vectrol Eng'g Inc	
P O Box 1089 Stamford Conn	3-6-11-14-23-24
Vectron Inc	
1611 Trapelo Rd Waltham 54 Mass	7-14
Venner Electronics Ltd	
Kingston By-Road	
New Moulden Surrey England	11-18
Vibrapower Co James	
1050 N Rockwell St	
Chicago 18 Ill	1-3-15-17-22-25
Vickers Inc Electric Products Div	
1887 Locust St	
St Louis 3 Mo	1-3-11-12-16-17-22-23-24
Vietoreen Instrument Co	
5806 Hough Ave Cleveland 3 Ohio	3-8-11-12
Virginia Electronics Co	
River Rd & B O R R	
Washington 16 DC	1-3-4-6-11-12
Vokar Corp	
7300 Huron River Dr Dexter Mich	25
Voron & Co George	
435 N 19 St Philadelphia 30 Pa	8
Wacine Inc	
35 S St Clair St Dayton 2 Ohio	16-24
Waco Inc	
2032 Broadway Santa Monica Calif	12
Waldorf Instrument Co Div F C Huyek & Sons	
Park Ave	2-3-4-6-7-8-9-10-11-12-13-
Huntington Station NY	14-15-16-17-19-22
Wallson Associates Ltd	
963 Freinhuysen Ave	
Newark 12 NJ	1-2-3-4-5-6-11-12-13-24
Warren Mfg Co	
Newtown Rd Littleton Mass	3-11-12-13-23-24
Wave Particle Corp	
P O Box 252 Menlo Park Calif	7-11-12
Wayne-Kerr Inst	
P O Box 901 Phila 5 Pa	5
Weltronic Co	
19500 W 8 Mile Rd	
Detroit 19 Mich	1-3-16-23-24
Westbury Electronics Inc	
300 Shames Dr Westbury NY	1-11-12-19
West Coast Electronics Co	
9261 W 8	
Beverly Hills Calif	1-3-6-11-12
West Coast Research Corp	
2371 1/2 Westwood Blvd	
Los Angeles 84 Calif	2-3-4-6-8-12-13
Western Gear Corp Electro Products Div	
132 W Colorado St	1-2-3-4-5-6-7-8-9-10-11-12-
Pasadena 1 Calif	13-14-16-17-19-20-22-23-24
Westinghouse Electric Corp	
Industrial Electronic Dept	
2519 Wilkens Ave Baltimore Md	4-12
Westinghouse Electric Corp	
P O Box 868	1-3-10-11-12-13-16-
Pittsburgh 80 Pa	17-19-20-22-23-24
Weymouth Instrument Co	
1440 Commercial St	
F Weymouth 89 Mass	5-7-11
White Electron Devices Inc Roger	
82 4 Ave Haskell NJ	7-12
Wickes Eng'g & Construction Co	
12 St & Ferry Ave	
Camden 4 NJ	8-9-11-12-14-15-16-19-23-24
Wilmar Mfg Co	
1110 Truman Rd Kansas City Mo	11
Wincharger Corp	
E 7 & Division St	1-3-4-5-9-10-11-
Sioux City 2 Iowa	12-13-17-19-20-22
Winder Aircraft Corp of Florida	
P O Box 2397 Drane Field	
Lakeland Fla	17-18-20
Zena Eng'g Co	
6355 Kenmore Ave Los Angeles 6 Calif	13

68-PRINTED CIRCUITS

Capacitors, fixed	1
Capacitors, variable	2
Circuits, embossed	3
Circuits, etched	4
Circuits, plated	5
Circuits, potted	6
Circuits, printed	7

Circuits, stamped	8
Connectors	9
Delay lines	10
Laminates, copper	11
Metal clad sheets	12
Networks, directional antenna	
phasing	13
Networks, matching	14
Networks, pulse forming	15
Plug-in circuit units	16
Plugs	17
Potentiometers	18
Printed circuit equipment	19
Printed circuit soldering	
equipment	20
Resistors	21
Silk screen processing	22
Sockets	23

Accurate Electronics Corp	
169 S Abbe Rd SE Flynria Ohio	9-17
AC Electronics Div GMC	
1925 E Kenilworth Pl Milwaukee 1 Wis	5-7
Admiral Corp	
3600 W Cortland St Chicago 47 Ill	4
Advance Industries Inc	
640 Memorial Dr Cambridge 39 Mass	16
Aero Electronics Corp	
1657 W 18 St Gardena Calif	18
Aerophysics Dev Corp Sub	
Curtiss-Wright Corp P O Box 689	
Santa Barbara Calif	9-18
Aerovox Corp	
710 Belleville Ave	
New Bedford Mass	1-4-7-21
Airborne Accessories Corp	
1414 Chestnut Ave Hillsdale 5 NJ	1
Airbyte Electronics Co	
535 Avenue A Bayonne NJ	5-6-15
Airtron Inc	
1108 W Elizabeth Ave Linden NJ	4-7-19
Ajax Condenser Co	
932 W Wrightwood Ave Chicago 14 Ill	1
Alectra	
Div Consolidated Electrodynamics Corp	
325 N Altadena Dr	
Pasadena Calif	4-5-7-16-22
Alden Products Co	
1235 N Main St	
Brookton 64 Mass	4-12
Allied Allegri Co	
141 River Rd	
Nutley 10 NJ	4-5-6-7-6-16-20
Ameleo Inc	
2040 Colo Ave Santa Monica Calif	4-5-22
American Brass Co	
414 Meadow St Waterbury 88 Conn	31
American Electronics Inc	
655 W Washington Blvd	
Los Angeles 15 Calif	18
American Printed Circuits Co	
104 Forrest St Metuchen NJ	4-5-7-10-11-12
American Electronics Corp	
1830 S 54 Ave Chicago 60 Ill	9-17
AMP Inc Captron Div	
155 Park Ave Elizabethtown Pa	15
Anley Mfg Co Arthur	
New Hope Pa	4-5-6-7-16
Anton Electronic Labs	
1225 Flushing Ave Brooklyn 37 NY	9-17
Armel Electronics Inc	
840 5 Ave Brooklyn 32 NY	9-17
Arvey Corp	
300 Communisaw Ave Jersey City 4 NJ	31
Audion Electronics Inc	
216 Lyon St Paterson 4 NJ	3-4-5-6-16
Automatic Metal Products Corp	
323 Berry St Brooklyn 11 NY	9
Aco Mfg Corp Cromley Div	
1329 Arlington St Cincinnati 25 Ohio	7
Avion Div ACF Industries Inc	
11 Park Pl Paramus NJ	4-5-6-9-11-16-22
Avionics Ltd P O Box 200	
Niagara-On-The-Lake	
Ontario Canada	4-5-6-7-22
Baird-Atomic Inc	
33 University Rd Cambridge 38 Mass	18
Baker & Co	
113 Astor St Newark 2 NJ	12
Balco Research Labs	
49-53 Edison Pl Newark 2 NJ	1
Barker & Williamson Inc	
Canal & Beaver Sts Bristol Pa	15-14
Bar-Ray Products Inc	
208 25th St Brooklyn 32 NY	19
Hart Mfg Corp	
227 Main St Belleville NJ	5
Becks Inc	
298 E 5 St St Paul 1 Minn	3-4-7-8-16
Bel Fuse Inc	
311 Mountain Rd Union City NJ	10
Berg Mfg Corp	
142 Reno St New Cumberland Pa	9
Bizelow Metallizing Chemicals Co	
98 Bizelow St Quincy 69 Mass	12
Biggs Co Carl H	
2255 Barry Ave	
Los Angeles 64 Calif	11-12
D J Electronics Borg-Warner Corp	
3300 Newport Ave Santa Ana Calif	4-16
Rolling Industries Inc	
1117 N Main Ave P O Box 981	
Seranton 2 Pa	22

Borg Equip Div George W Borg Corp	
120 S Main St Janesville Wis	18
Brew & Co Richard D	
90 Airport Rd Concord NH	10
British Electronic Sales Co Inc	
Painton Div	
Oakland Gdn Flushing 64 NY	21
Bruno-New York Industries Corp	
460 W 34 St New York 1 NY	10
Buffalo Electronics Corp	
37 Franklin St Buffalo 2 NY	10
Buggie Inc H H	
P O Box 817 Toledo 1 Ohio	9
Burke & James Inc	
321 S Wabash Ave Chicago 4 Ill	19-22
Burnell & Co	
10 Pelham Pkwy Pelham Manor NY	10
Butcher Co I H	
3628 E Olympic Blvd Los Angeles Calif	19
By-Huk Co	
1314 W Pico Blvd Los Angeles 19 Calif	19
Cal-Met Electronics	
5860 Spring Oak Dr Hollywood 28 Calif	9
Cal-Ohm Labs Inc	
Broadway & Adams St	
Sterling Kansas	4-5-6-7-8-11-12-16-19-21-22
Cambridge Thermionic Corp	
446 Concord Ave Cambridge 34 Mass	1-2-9-17
Caraf Co	
P O Drawer 554 Brookhaven Miss	1
Centralab Div Glote-Union Inc	
200 E Keefe Ave	
Milwaukee 1 Wis	14-15-18-21
CE Electronics Corp	
150 Central St	
Albuquerque N Mex	4-5-6-7-16
Chicago Telephone of Calif	
105 Pasadena Ave S Pasadena Calif	18
Chicago Telephone Supply Corp	
1142 W Heardsley Ave Elkhart Ind	21
Cinch Mfg Corp	
1025 S Human Ave	
Chicago 24 Ill	4-7-9-22-23
Circom Components Corp	
Santa Barbara Municipal Airport	
Goleta Calif	7-16-23
Clegg Labs Div Clegg Inc	
Ridgdale Ave Morrisstown NJ	15
Cleveland Metal Specialties Co	
1783 E 21 St	
Cleveland 14 Ohio	1-4-5-6-7-9-16-23
Coaxial Connector Co	
37 N 2 Ave Mt Vernon NY	9-17
Colleraff Inc	
East Ill	10
Coil Winders Inc	
30 New York Ave New Canaan	
Westbury LI NY	13-14-15-16
Cole Radio Works	
28 Westville Ave Caldwell NJ	20
Communication Accessories Co	
U S 50 Hwy Lees Summit Mo	14-15
Computer Control Co	
92 Broad St Welleley 57 Mass	16
Computing Devices of Canada Ltd	
P O Box 508 Ottawa Ontario Can	16
Condenser Mfg Inc	
1014 Pearl St Nashville Tenn	1
Consolidated Electrodynamics Corp	
300 N Sierra Madre Villa	
Pasadena Calif	4-5-7-16-22
Consolidated Productions Inc	
Broadway Int'l Airport Ft Lauderdale Fla	6
Continental Connector Corp	
34-63 56 St Woodside 77 NY	9
Continental-Diamond Fibre Corp	
Newark Dela	12
Control Circuits Inc	
103 Court St Middletown Conn	6
Control Data Corp	
501 Park Ave Minneapolis 15 Minn	16-18
Cook Co Frank R	
36 S Santa Fe Dr Denver 23 Colo	4
Coors Porcelain Co	
600 9th St Golden Colo	7
Cornell-Dubilier Electric Corp	
333 Hamilton Blvd S Plainfield NJ	1
Corning Glass Works	
Corning NY	1-5-10-21
Corson Electric Mfg Corp	
540 39 St Union City NJ	15
Craftint Mfg Co	
1615 Collamer Ave Cleveland 10 Ohio	22
Crimmins Inc	
3701 Ravenswood Ave Chicago 13 Ill	4-5-7-22
Cubic Corp	
5575 Kearny Villa Rd	
San Diego 11 Calif	6-16
Cudner & O'Connor Co	
4035 W Kinzie St Chicago 24 Ill	19
Dale Plastics Co	
2525 Nebraska Ave	
Santa Monica Calif	4-5-6-7-11-12-16
Dale Products Inc	
P O Box 186	
Columbus Nehr	3-4-5-6-7-8-16-18-21-22
Daven Co	
Route 10 Livingston NJ	4-7-14
Defiance Printed Circuit Corp	
81 Albion St Wakefield Mass	4-5-7-22
Dejuro-Amaco Corp Electronics Sales Div	
45-01 Northern Blvd	
Long Island City 1 NY	9
Dependable Printed Circuit Corp	
827 Black Oak Ridge Wayne NJ	4-5-7
Designers for Industry	
4241 Fulton Pkwy Cleveland 9 Ohio	22
Deutschmann Corp Tobe	
Providence Hwy Norwood Mass	1-10-15
Die-Form Circuits Inc	
6045 W Ogden Ave Chicago 50 Ill	3

Digitronics Corp Albertson Ave Albertson LI NY	10-16	General Electric Co Specialty Electronic Component Dept W Genesee St Auburn NY	1	Luminous Processes Inc 161 E 42 St New York NY	4-7-22
Dilectron Div Gudeman Co 2669 S Myrtle Ave Monrovia Calif	10	General Electric Co Apparatus Sls Div 1 River Rd Schenectady 5 NY	15-19	Mack Electronics Div Inc 1000 R 2 St Plainfield NJ	16
Division Lead Co 7742 W 61 P Summit Ill	20-22	General Electric Co Coshort Ohio	11-12	Magnavox Corp 2131 Bueter Rd Ft Wayne Ind	4-5-6-7
Donner Scientific Co 888 Galindo St Concord Calif	6	General Electric Co Missile Production Sec Lakeside Ave Burlington Vt	4-5-6-7-15-16-22	Magnavox Co 2131 Bueter Rd Ft Wayne Ind	4-16
Doty Acoustical Electronic Labs Tobyhanna Penna	4-16-19	General Instrument Corp F W Sickles Div 165 Front St Chicopee Mass	2-10	Malco Tool & Mfg Co 4025 W Lake St Chicago 24 Ill	9
Doyen Mach & Eng Inc 2706 W Van Buren St Chicago 12 Ill	19-20	General Instrument Corp F W Sickles Div 165 Front St Chicopee Mass	2-10	Mallory & Co Inc P R 42 S Gray St Indianapolis 6 Ind	1-16-18-19-21-22
Drakenfeld & Co P F Box 519 W Wyllie Ave Washington Penna 19		General Mills Inc Mechanical Div 1620 Central Ave Minneapolis 13 Minn	20	Mandex Mfg Co 2608 W 16 St Chicago 8 Ill	7-9-23
Dry Screen Process Inc 1016 Madison Ave Pittsburgh 12 Pa	4-5-7-19-20-22	General Plastics Corp 165 S Ave Paterson 4 NJ	11	Maryland Electronic Mfg Corp 5009 Calvert Rd College Park Md	7-22
Dumont Airplane & Marine Instruments Inc 15 William St New York 3 NY	1	General Research & Supply Co 572 Division St Grand Rapids 3 Mich	22	Maurey Instrument Corp 7924 S Exchange Ave Chicago 17 Ill	18
Dunlap Electronics 764 9 St Des Moines 14 Iowa 4-5-6-7-16-19-22		General RF Fittings Inc 702 Beagon St Boston 15 Mass	9-17	Maymer Corp 1961 W 112 St Cleveland 2 Ohio	4-7
Dunn Eng'g Associates 225 O'Brien Hwy Cambridge 38 Mass	4-5-6-7-16-22	Glass Products Co 30 S Salinas St Santa Barbara Calif	7	Mech-Tronic Equipment Co P O Box 510 Silver Spring Md	19-22
Dwyer Eng'g Co Pine St Ext Nashua NH	4-5-6-7-16-21	Goidak Co 1544 W Glenoaks Blvd Glendale 1 Calif	7	Melpar Inc 3000 Arlington Blvd Falls Church Va	15
Dynatron Inc 717 W Amelia Ave Orlando Fla	15	Hamilton Standard Electronics Dept Main St Broad Brook Conn	4-6-7-16	Meredith & Co Ltd C 80 Thomas St Streetsville Ont Canada	18
Eastman Pacific Co 2820 E 8 St Los Angeles 21 Calif	21	Globe Electrical Mfg Co 1729 W 134 St Gardena Calif	4-5-7-16-22	Metallic Plastics Corp 27-10 44 Dr Long Island City 1 NY	7-11-12
Eaton Electronics Corp Eaton St Mendota Conn	4-5-4-7-16	Good Electronics Corp 17-19 Bronks St Newton 58 Mass	3-4-5-6-7 8-9-16-17	Methdax Mfg Corp 7447 W Wilcox Ave Chicago 31 Ill	4-5-7-9-17-23
Eberline Instrument Div Reynold Electrical 805 Early St Santa Fe New Mexico	16	Graphic Circuits Div Cinch Mfg Corp 200 S Turnhill Canyon Rd La Puente Calif	3-4-5-6-7-8-9-16	M F Electronics Co 122 E 25 St New York 10 NY	6-7
Eby Co H H 3700 Germantown Ave Philadelphia 14 Pa	4-5-23	Gray & Kubn 20 Railroad Ave Rarlyn Heights NY	10	Mica Corp 4031 Elenda St Culver City Calif	3-4-5-6-7-8-11-12-16
Ebb Sales Co 150 Lafayette St New York 13 NY	28	Gray Pantograph Engraving 200 Washington St Hoboken NJ	4-7-22	Mica Insulator Co 797 Broadway Schenectady 1 NY	12
Eico Corp M St below Erie Ave Philadelphia 24 Pa	9-17-23	Gulton Industries Inc 212 Durham Ave Metuchen NJ	4-5-6-7-10-13-16	Micamold Electronics Mfg Corp 1087 Flushing Ave Brooklyn 37 NY	1-10-15
Electralab Inc A St Neesham Heights 84 Mass	4-5-7	Hansen Electronics Co 7117 Santa Monica Blvd Los Angeles 46 Calif	7-21	Micarta Fabricators Inc 5324 N Ravenswood Ave Chicago 40 Ill	4-5-7-8-9-11-22
Electro-Etch Circuits Inc 3146 W Flamingo Ave Los Angeles 13 Calif	4-5-7-16	Harvey-Wells Electronics Inc North St Southbridge Mass	16	Micronet Inc 220 Pasadena Ave S Pasadena Calif	9
Electro Instrument Inc Aero Ct San Diego Calif	4-5-7-9-14-16-16-22	Helco Products Corp 7432 Balboa Blvd Van Nuys Calif	18	Miller Dial & Nameplate Co 4400 N Temple City Blvd El Monte Calif	3-4-7
Electro-Mac Lab Inc 47-51 33 St Long Island City 1 NY	18	Hoffman Electronics Corp 3751 S 134 St Los Angeles 7 Calif	23	Miller-Trojan Co 3 North Ridge Ave Troy Ohio	19
Electronic Associates Inc Long Branch NJ	4-7-16	Holt Instrument Lab Div Holt Harkwood Co Inc Oconto Wis	4	Minitron Inc 11052 2 St Encinitas Calif	4-5-6-7-16-22
Electronia Inc 39 York Rd Willow Grove Pa	4-7-19-20	Hoover Electronics Co 112 W Timonium Rd Timonium Md	4-6-7-22	Minshall Organ Co 28 Buge St Brattleboro Vt	4
Electronics Intl Co Inc 20 N Lee St Oklahoma City 2 Okla	7	Ilumitronic Eng'g Co 680 E Taylor Ave Sunnyvale Calif	11	Mitronics Inc 1290 Central Ave Hillside NJ	7-10
Electro-Physics Labs 2046 Huntington Dr San Marino Calif	12	Industrial Mfg Co 100 Prince St New York 12 NY	23	Modular Systems Inc 21-28 45 Rd Long Island City 1 NY	7
Elektro-Serv Co 480 Johnson Ave Brooklyn 37 NY	4	Insulating Fabricators Inc 150 Union Ave E Rutherford NJ	4-7-9-11-19	Molded Insulation Co 335 E Price St Philadelphia 44 Pa	4-5-7-22
El-Rad Mfg Co 2800 W Cullom Ave Chicago 18 Ill	10	Insulation Mfrs Corp 565 W Washington Blvd Chicago 39 Ill	11-12	Muter Co 1255 S Michigan Ave Chicago Ill	1
Emerson Radio & Phonograph Corp 11 & 12th Sts Jersey City 2 NJ	4-5-6-7-8	Insuline Corp of America 180 Granite Pl Manchester NH	22	Moore Co Howard J 266 Williams St New York NY	11
Engelhard Industries Inc 113 Astor St Newark NJ	12	International Resistance Co 401 N Broad St Philadelphia 8 Pa	10-18-21	Motson Co J Frank 1717 Bethlehem Pike Flourtown Pa	7-22
Engineered Electronics Co 506 E 1 St Santa Ana Calif	15-16	Jackson Electronics Inc 23 Woodcrest Rd West Chester Pa	1-2-21	Mycalex Corp of America 125 Clifton Blvd Clifton NJ	4-7-11-23
Engineering Enterprises Inc 1200 18 St N W Washington 6 DC	7	Jacobs Instrument Co 4718 Bethesda Ave Bethesda 14 Md	15	National Aircraft Corp Electronics Div 3411 Tulare Ave Burbank Calif	16
Epson Inc 588 Commonwealth Ave Boston 15 Mass	15-16	Jeffers Electronics Div Speer Carbon Co Hoover Ave Dubuque Ia	16	National Capacitor Co 14 Webster St Brookline Mass	1-14-15
Equip-A-Matic Eng'g Corp 6045 W Ogden Ave Chicago 50 Ill	20	Jefferson Electronic Products Corp 322 State St Santa Barbara Calif	20	National Fabricated Products Div Hoffman Electronics Corp 2650 W Belden Ave Chicago 47 Ill	23
Ereona Corp 551 Fifth Ave New York 17 NY	9-19	Johnson Co E F 206 2 Ave SW Waseca Minn	2-9-13-14-17-23	National Scientific Labs Inc 2010 Massachusetts Ave N W Washington 6 DC	16
Erle Resistor Corp 644 W 12 St Erie 6 Pa	1-2-7-16-21	Jones Electronics Hiram 2313 W Olive St Burbank Calif	4-5-7-17-23	National Tel-Tronics Corp 52 St Casimir Ave Yonkers NY	11
ES&C Corp 584 Bergen Blvd Palisades Park NJ	10-15	Kel-Eng'g Products Co 6833 Manchester Ave St Louis 10 Mo	4-5-7-11-22	National Vulcanized Fibre Co P O Box 311 Wilmington 99 Dela	11-12
Essex Electronics Div NYT Electronics Inc 7303 Atoll Ave N Hollywood Calif	10	Labko Scientific Inc 111 W Elm Stillwater Okla	4-7	Navigation Computer Corp 1621 Snyder Ave Phila Penna	16
Etched Products Corp 39-01 Queens Blvd Long Island City 4 NY	4-5-22	Laboratory for Electronics Inc 75 Pitts St Boston 14 Mass	4-5-6-7-10-22	Naz-Dar Co 465 Milwaukee Ave Chicago 10 Ill	4-7-19-22
Factory Enterprises Inc 3421 Butler St Pittsburgh 1 Pa	19-22	Lambda-Pacific Eng'g Inc 14725 Arminia St Van Nuys Calif	7	New England Laminates Inc 481 Canal St Stamford Conn	11-12
Fairchild Controls Corp 6111 E Washington Blvd Los Angeles Calif	18-21	Laminated Sheet Products Corp 449 Neponset St Norwood Mass	3-4-5-7-8-12-22	New Hermes Engraving Machine Corp 13 University Pl New York 3 NY	7-19
Fairchild Guided Missiles Div Fairchild Engine & Airplane Corp Straight Path Wyandanch LI NY	4	Lamtek Industries Inc 51 State St Westbury NY	11-22	Norsid Mfg Co 33 Prospect St Yonkers 1 NY	22
Farrelly Co 1243 N 25th St Phila Pa	20	La Puente Industries Inc 155 W Main St Rockville Conn	3-4-5-6-7-8-9-10-13-14-15-16-17-22	North American Instruments Inc 2420 N Lake St Altadena Calif	14
Felsenthal & Sons Inc G 3500 N Kedzie Ave Chicago 18 Ill	22	Lench & Garner Co Industrial Div Lench & Garner Bldg Attleboro Mass	11-12	Northern Plastics Corp 2nd Market St Lacrosse Wisc	3-4-5-7-8-11-12
Ferrosan Electronics Co 693 Broadway New York 12 NY	16	Leas Inc 5171 S Bundy Dr Santa Monica Calif	4-7	Nyt Electronics Inc 2979 N Ontario St Burbank Calif	10-15
Filmhm Co 48 W 25 St New York 10 NY	21	Leas Inc 110 Junia Ave NW Grand Rapids 2 Mich	7-8	Ohmite Mfg Co 8601 Howard St Skokie Ill	1-21
Flexaust Co 100 Park Ave New York 7 NY	3-4-5-6-7	Lemert Eng'g Co 201 E Jefferson St Plymouth Ind	19	Oonodaga Pottery Co 1858 W Fayette St Syracuse 1 NY	1-7-16-21
Fluorocarbon Products Inc Div U S Gasket Co 602 N 10 St Camden 1 NJ	11-12	Lenk Mfg Co 30 Cummington St Boston 15 Mass	20	Packard Bell Electronics Corp 12338 W Olympic Blvd Los Angeles 64 Calif	4-5-6-7-8-10-22
Forbes & Wagner Inc 348 Central Ave Silver Creek NY	10	Leonard Electric Products Co 67 34 St Brooklyn 32 NY	10	Painton & Co Ltd e/o British Electronic Sales Co Box 132 Oakland Gardens 64 NY	21
Franklin A W 39 Broadway New York 6 NY	19	Lewershire Spool Div National Vulcanized Fibre Co 140 Baldwin St Johnson City NY	11-12	Panellit Inc 7401 N Hamlin Ave Skokie Ill	4-7-8-19-22
Garde Mfg Co 688 Eddy St Providence 3 RI	9-23	Liton Industries Components Div 5873 Rodeo Rd Los Angeles 16 Calif	3-4-5-6-7-9-17-22	Paul & Beckman 1801 W Courtland St Philadelphia 40 Pa	8-22
Gardner Lab Inc P O Box 5228 Bethesda 14 Md	19	Liton Industries of Calif 338 N Foothill Rd Beverly Hills Calif	4-7-10-15	Paul F H & Stein Bros 235 5 Ave New York 16 NY	22
Gates Radio Co 123 Hampshire St Quincy Ill	4-5-7-19	London Chemical Co 1535 N 31 Ave Melrose Park Ill	20	Permacel-Le Pages Inc U S Hwy 1 New Brunswick NJ	12
Gavitt Wire & Cable Co Central St Brookfield Mass	3-4-5-6-7-22			Permonite Mfg Co 444 Lake Shore Dr Chicago 11 Ill	22-23
General Electric Co/Computer Dept 1103 N Central Ave Phoenix Ariz	16				

Phileo Corp	
Tioza & C Sta Philadelphia 24 Pa	5-6-7-10
Photocircuits Corp	
31 Sea Cliff Ave Glen Cove NY	4-5-7
Planet Mfg Corp	
225 Belleville Ave Bloomfield NJ	1
Plastics & Electronics Corp	
P O Box 38 Station J Buffalo 8 NY	5-6-7
Plaxteck Inc	
P O Box 551 Poteau Okla	7
Plastic Capacitors Inc	
2620 N Clybourn Ave Chicago 14 Ill	1-16
Polytronics Inc	
7326 Westmore Rd Rockville Md	4-16-22
Polytronic Research Inc	
1600 Woodbury Dr Silver Spring Md	4-5-7-10
Potter Co	
1950 Sheridan Rd N Chicago Ill	1
Precision Inc	
730 N Lyndale Ave Minneapolis 11 Minn	21
Precision Line Inc	
63 Main St Maynard Mass	19
Precision Metal Products Co	
41 Elm St Stoneham Mass	11-12
Premier Instrument Corp	
52 W Houston St New York 12 NY	4-5-7
Printed Electronics Corp	
7 North Ave Natick Mass	4-5-7-8-19-22
Q-Line Mfg Corp	
1562 61 St Brooklyn 19 NY	2
Radio Industries Inc	
5225 N Ravenswood Ave Chicago 25 Ill	1-3-5-7-16-21
Ramo-Woolridge Corp	
Electronic Instrumentation Div	
P O Box 8405 Denver 10 Colo	4-5-7-16
Rca Co J B	
1723 Cloverfield Blvd Santa Monica Calif	16
Reed & Rees Inc	
717 N Lake Ave Pasadena 6 Calif	16-18
Reid Mfg Co A	
80 Shore Rd Port Washington NY	20
Remington Rand Div Sperry Rand Corp	
315 4 Ave New York 10 NY	7
Republic Aviation Corp	
Farmingdale LI NY	7-22
Resistance Products Co	
914 S 13 St Harrisburg Pa	21
Revere Copper & Brass Inc	
230 Park Ave New York 17 NY	12
Rez Corp	
Hayward Rd W Acton Mass	11
RHO Eng Co	
2242 Sepulveda Blvd Los Angeles Calif	6-16-21
Richardson Co	
27 Ave & Lake St Melrose Park Ill	11-12
Robinson Machine Works	
802 E 8 St New Albany Ind	9-19
Rogers Corp	
Rogers Conn	3-7-8
Rowe Engravers	
262 E 16 St Paterson 4 NJ	4-7-19
Rue Products	
1628 Venice Blvd Venice Calif	6-16-21
Safetee Glass Co	
4717 Stenton Ave Philadelphia 44 Pa	11-22
St Elroi Corp	
P O Box 507 Newtown Br Cincinnati 44 Ohio	1-4-5-7-21
Sampson Chemical & Pigment Corp	
2830 W Lake St Chicago 12 Ill	22
Sanders Associates	
95 Canal St Nashua NH	4-11
Sanzamo Electric Co	
11th & Converse Sts Springfield Ill	1
Saratoga Industries	
Congress & Ballston Aves Saratoga Springs NY	10-15
Scantlin Electronics Inc	
11624 W Pico Blvd Los Angeles 64 Calif	16
Semcom	
252 E 16 St Paterson 4 NJ	4-7-22
Servonics Inc	
822 N Henry St Alexandria Va	7
Shalleross Mfg Co	
Jackson & Pusey Aves Collingdale Pa	10-18-21
Sihley Co	
Bridge St Haddam Conn	4-5-6-7-16
Sickles Div F W /GIC	
165 Front St Chicopee Mass	16
Simpson Optical Mfg Co	
3200 W Carroll Ave Chicago 24 Ill	4-5-7-22
Skiatron Electronics & TV Corp	
180 Varick St New York 14 NY	4-5-6-7-8-16
Slip Ring Co of America	
3612 W Jefferson Blvd Los Angeles 16 Calif	4-5-6-7
Solar Mfg Corp	
4653 Seville Ave Los Angeles 58 Calif	1-2
Spaulding Fibre Co Inc	
1325 San Julian St Los Angeles 15 Calif	11-12
Spaulding Fibre Co	
310 Wheeler St Tonawanda NY	11-12
Specialties Inc	
261 Madison Ave New York 16 NY	11-12
Specific Electronics	
1995 N Fair Oaks Ave Pasadena Calif	4-7
Sprague Electric Co	
Marshall St North Adams Mass	1-6-7-16-21
Sprague of Wisconsin Inc	
5 & Beech Sts Grafton Wis	7
Sta-Warm Electric Co	
853 N Chestnut St Ravenna Ohio	20
Stelma Inc	
190 Henry St Stamford Conn	4-7-22

Stromberg-Carlson Div General	
Dynamics Corp	
100 Carlson Rd Rochester 3 NY	4-7-19
Sun Chemical Corp	
1040 44 Ave Long Island City 1 NY	19
Superelex Electronics Corp	
54 Marlblead Rd Tuckahoe NY	16
Swedlow Plastics Co	
6986 Bandini Blvd Los Angeles 22 Calif	4-5-6-11
Sylvania Electric Products Co	
Electric Systems Div	
100 First Ave Waltham 54 Mass	16
Sylvania Electric Products Inc Parts Div	
12 2nd Ave Warren Pa	9-23
Synthane Corp	
Montgomery Ave Oaks Pa	11-12
Tabet Mfg Co	
1336 Ballentine Blvd Norfolk 12 Va	19
Taylor Fibre Co	
Box 471 Norristown Pa	11-12
Technical Devices Co	
2340 Centinela Ave Los Angeles 64 Calif	20
Techniques Inc	
52 Jackson Ave Hackensack NJ	4-5-7-10-11-13-16-22-23
Technograph Printed Electronics Inc	
920 Northwest Blvd Winston Salem N Caro	4-5-7-19
Techtron Corp	
81 Washington St Boston 8 Mass	4-5-7
Telegraph Condenser Co	
N Acton London W 3 England	1-3-4-5-6-7-8-9-10-13-14-15-16-20-22
Telegraph Construction & Maintenance Co Ltd	
Mercury House Theobalds Rd London W C 1 England	12
Telephonics Corp	
Park Ave Huntington LI NY	7
Telco	
1633 Eustis St St Paul 1 Minn	4-6-7-19
Tel-Rid Electronics Corp	
73-20 Trotting Course Lane Glendale LI 27 NY	6-7-16
Thermo Materials Inc	
4040 Campbell Ave Menlo Park Calif	7
Timsteel Co	
1461 W Grand Ave Chicago Ill	4-8-11-12
Topper Mfg Co Inc	
147-12 Liberty Ave Jamaica 35 NY	6-7-16
Torviso Electronics Inc	
1090 Morris Ave Union NJ	16
Trans-Kit Electronics Inc	
467 S 8 Ave Mt Vernon NY	7
Trim Inc	
400 W Lake St Libertyville Ill	16
Trimount Plastic Co	
71 Dudley St Arlington 74 Mass	11-12
Tripl-T Electronics Co	
Box 5352 Pasadena Calif	16
Tru-Ohm Products Div Model Eng'g & Mfg Co	
2800 N Milwaukee Ave Chicago 18 Ill	21
Ucinite Co Div United-Carr Fastener Corp	
459 Water St Newtonville 60 Mass	8-9-23
Ultronix Inc	
116 S Bayshore Blvd San Mateo Calif	6-21
United Shoe Machinery Corp	
140 Federal St Boston 7 Mass	9-17
United Transformer Corp	
150 Varick St New York 13 NY	14-15
U S Components Inc	
454 E 148 St New York 55 NY	9
Valandy Electronics Corp	
61-35 166 St Flushing 68 NY	7
Valar Electronics Co	
13214 Crenshaw Blvd Gardena Calif	10
Vanton Pump & Equipment Corp	
201 Sweetland Ave Hillside 5 NJ	19
Victory Eng'g Co	
121 Springfield Rd Union NJ	16
Virginia Electronics Co	
River Rd & B & O RR Washington 16 DC	16
Vocalite Screen Corp	
19 Debevoise Ave Roosevelt NY	23
Wange Electric Inc	
720 Colfax Ave Kenilworth NJ	20
Walkirt Co	
141 W Hazel St Inglewood 3 Calif	16
Wall Mfg Co P	
Erie St Grove City Pa	20
Waltham Screw Co	
77 Rumford Ave Waltham 54 Mass	9-17
Weller Electric Corp	
601 Stone's Crossing Rd Easton Pa	20
West Coast Research Corp	
2371 1/2 Westwood Blvd Los Angeles 64 Calif	6-19
Weston Electrical Instrument Corp	
614 Frelinghuysen Ave Newark 12 NJ	18
Wheaton Co T C	
Millville NJ	10
Whitewater Electronics Inc	
136 Main St Whitewater Wis	10
Winder Aircraft Corp of Florida	
P O Box 2897 Drane Field Lakeland Fla	12
Zephyr Products Co	
129 E 124 St New York 35 NY	7

69—PRODUCTION MACHINERY & EQUIPMENT

Air conditioning	1
Assemblers, feeders	2
Assembling equipment, automatic	3
Buffers & grinders	4

Chambers, environment	5
Chambers, temperature & humidity	6
Chambers, test	7
Cleaners, ultrasonic	8
Compressed air production tools	9
Conveyors	10
Crystal growing equipment	11
Crystal refining equipment	12
Dehumidifiers	13
Dehydrators	14
Demagnetizers	15
Drill presses	16
Dust enclosures	17
Furnaces, electric	18
Furnaces, gas fired	19
Lathes, bench	20
Machines, abrasive cutting	21
Machines, balancing	22
Machines, blueprint	23
Machines, capacitor mfg	24
Machines, coil winding	25
Machines, coil winding, toroidal	26
Machines, counting	27
Machines, crystal mfg. & finishing	28
Machines, die casting	29
Machines, electron tube mfg.	30
Machines, engraving	31
Machines, glass blowing & working	32
Machines, hermetic sealing	33
Machines, impregnating	34
Machines, lamination stacking	35
Machines, marking & numbering	36
Machines, metal forming	37
Machines, plastic press	38
Machines, riveting	39
Machines, shock testing	40
Machines, soldering	41
Machines, weighing	42
Machines, wirestripping	43
Magnetizers	44
Material handling equipment	45
Ovens, temperature controlled	47
Pots & tanks, heating	48
Pressurization units	49
Pumps, high vacuum	57
Pumps, metering	50
Punch presses	51
Racks, relay	52
Stamps, marking	53
Stills & demineralizers	54
Titration apparatus, electronic	55
Welders	56

Abbeon Supply Co	
179-15 Jamaica Ave Jamaica 32 NY	6
Accurate Sheet Metal & Mfg Works	
2336 Milwaukee Ave Chicago 47 Ill	48
Ace Eng'g & Machine Co Inc	
Tumlinson Rd Huntingdon Valley Penna	7
Akersman-Gould Co	
92 Bleecker St New York 12 NY	36-51-53
Arme Electric Heating Co	
1217 Washington St Boston 19 Mass	47-48
Arme Industrial Co	
209-222 N LaSalle St Chicago 7 Ill	20-37
Arme Telephonix Div, New Service	
1200 W 3 St Cleveland 13 Ohio	31
Acoustica Associates	
26 Windsor Ave Mineola NY	8
Acromark Co	
309 Morrell St Elizabeth NJ	36-53
Acro Tool & Die Works	
454 Broadway Chicago 40 Ill	36-53
Admiral Corp	
3800 W Cortland St Chicago 47 Ill	3
Advanced Electronics Inc	
94 Silas Deane Hwy Rocky Hill 9 Conn	5-6
Advance Electronics Co	
8510 North End Ave Oak Park 37 Mich	15
Aerophysica Dev Corp	
Curtiss-Wright Corp	
P O Box 689 Santa Barbara Calif	49-57
Aerovox Corp	
740 Belleville Ave New Bedford Mass	16
Aireco Inc	
2323 2 Ave Schenectady 3 NY	5-6-7
Air Reduction Sales Co Div Air Reduction Co	
150 E 42 St New York 17 NY	56
AiResearch Mfg Co Div Garrett Corp	
9851 Sepulveda Blvd Los Angeles 46 Calif	1
Air & Refrigeration Corp	
439 Madison Ave New York 22 NY	47
Alcar Instruments Inc	
17 Industrial Ave Little Ferry NJ	8

Allied Eng'g & Production Corp
2421 Blanning Ave
Alameda Calif 6-7-16-38-45-51

Alloy Metallomaths Inc
80 Commerce Rd Cedar Grove NJ 17

Altec Lansing Corp
1515 S Manchester Ave Anaheim Calif 5-52

American Electric Fusion Corp
2600 Diversey Ave Chicago 47 III 37-56

American Air Filter Co
215 Central Ave Louisville 8 Ky 1

American Hoist & Derrick Co
63 S Robert St St Paul 1 Minn 45

American Machine & Foundry Co
Defense Products Group
1101 N Royal St Alexandria Va 5-7-22

American Machine & Foundry Co
Gen Eng Labs
11 Bruce Pl Greenwich Conn 35-42-45

American Optical Co Instrument Div
P O Box 158 Sts C
New York 15 NY 4

American Photocopy Equip Co
1920 W Peterson Ave Chicago 26 III 23

American Research Corp
Route 6 Farmington Conn 5-6-7

American Searchlight Corp
38 W 53 St New York NY 5-4-47

American Time Producta Inc
580 E Ave New York 36 NY 15

Anelberger Bros
Northbrook Ill 6

Annis Co R B
1101 N Delaware St Indianapolis 2 Ind 15-44

Arcan Fasting Co
P O Box 158 Sts C
Hamilton Ont Canada 10-17-45

Arlin Products Inc
1541 Auburn Ave
Detroit 23 Mich 2-3-27-36-42-43

Arnold Magnetics Corp
4613 W Jefferson Blvd
Los Angeles 16 Calif 26

Artos Eng Co
2757 S 28 St Milwaukee 46 Wis 48

Associated American Div S & G Inc
750 St Anna Ave New York 56 NY 25-26

Associated Eng & Mfg Corp
210 Stonehouse Rd
Glen Ridge NJ 18-33-56-57

Associated Production Co
162 N Clinton St Chicago 6 III 25-45

Associated Testing Labs
109 Clinton Rd Caldwell NJ 5-6-7-40-47

Atlas Precision Products Co
3801 Castor Ave Philadelphia 24 Pa 7

Atmosphere Control Co
5515 Chester Ave Philadelphia 43 Pa 5

Automatic Methods Inc
965 W Grand St Elizabeth NJ 36-41

Automation Management Inc
Adams St Westboro Mass 3-21-45

Bach-Simpson Ltd
1255 Hyrdgen St London Ont Canada 55

Baker Bros
Post & Harleau Sts Toledo 10 Ohio 16

Baldwin-Lima-Hamilton Corp
Electronics & Instrumentation Div
42 Fourth Ave Waltham 54 Mass 40-42-45-47

Barkley & Dexter Laboratories
50 Frankfort St Fitchburg Mass 2

Barnes Development Co
213 W Baltimore Ave Lansdowne Pa 3-45

Barnstead Still & Dewatering Co
531 Lansville Terr Boston 31 Mass 54

Barnwell Co Leon J
1521 Grafton Rd Worcester 1 Mass 34

Bary Controls Inc
700 Pleasant St Watertown 72 Mass 40

Bench-Ituss Co
50 Church St New York 7 NY 49-51

Benchmaster Mfg Co
1835 W Rivercrans Ave
Gardena Calif 37-45-51

Bendix Aviation Corp Pioneer-Central Div
2734 Hickory Grove Rd Davenport Iowa 8

Bendix Aviation Corp
1104 Fisher Bldg Detroit 2 Mich 21

Berg Mfg Corp
142 Reno St New Cumberland Pa 3

B F Industries
345 Harris Ave Providence RI 50

Black & Welster Inc
445 Watertown St
Newton 55 Mass 2-3-36-39-51

Blue M Electric Co
138 & Chatham St Blue Island Ill 6-7-47

Bogue Electric Mfg Co
62 Iowa Ave Paterson 3 NJ 45

Boston Woven Hose & Rubber Co
P O Box 1071 Boston 3 Mass 10

Bowser Technical Refrigeration
Div Howser Inc
Terryville Conn 5

Bristol Co
P O Box 1790 El Waterbury Conn
Bruno-New York Industries Corp
460 W 34 St New York 1 NY 43

Bucks County Enterprises
Municipal Airport Quakertown Pa
Butcher Co L H
3628 E Olympic Blvd
Los Angeles Calif 4-8-10-20-45-47-54

Caltron Products Co
3518 W Pico Blvd Los Angeles 19 Calif 44

Carpenter Manufacturing Co Inc
P O Box 217 Dewitt 14 NY 43

Carrier Corp
300 S Goodes St Syracuse 1 NY 1-13

Carver Inc Fred S
1 Chatham Rd Summit NJ 28

Central Scientific Co
1700 Irving Park Rd Chicago 13 Ill 47-55-57

Central Scientific Co of Calif
1040 Martin Ave Santa Clara Calif 18-57

Central Scientific Co of Canada Ltd
146 Kendal Ave
Toronto 4 Ont Canada 13-32-47-55-57

CG Electronics Corp
1500 Central St Albuquerque NM 26

Chicago Rivet & Machine Co
950 S 25 Ave Bellwood Ill 39

Cincinnati Sub-Zero Products
3552 Reading Rd Cincinnati 29 Ohio 5-8-7

Cinema Eng'g Div Aerovox Corp
1100 Chestnut St Burbank Calif 16

Cinema-Television Ltd
Worsley Bridge Rd Lower Sydenham
London SE 26 England 46

City Chemical Corp
132 W 22 St New York 11 NY 13

Clavage Pst Co
Kalamazoo Mich 1-13

Clark Crystal Co
2 Farm Rd Marlboro Mass 12

Clearview Co
172 Stanton St New York 2 NY 36

Coil Winders Inc
30 New York Ave New Cassel
Westbury LI NY 15

Cole Radio Works
86 Westville Ave Caldwell NJ 41

Communication Equipment & Eng'g Co
5645 W Race Ave Chicago 44 Ill 52

Condenser Machinery Co
28 Harbor St Stamford Conn 24

Conrad Inc
141 Jefferson St Holland Mich 5-6-7

Consolidated Diesel Electric Corp
880 Canal St Stamford Conn 1

Consolidated Electrodynamics Corp
300 N Sierra Madre Villa
Pasadena Ca Corp 40-57

Consolidated Electrothermics Corp
Rochester Div
1775 Mt Read Blvd
Rochester 4 NY 5-7-18-30-40-57

Consolidated Vacuum Corp
1775 Mt Read Blvd Rochester 3 NY 57

Control Data Corp
501 Park Ave Minneapolis 15 Minn 25

Controlled Atmosphere Enclosures Corp
230-11 141 Ave
Springfield Gardens LI NY 1-5-6-7-13-17

Cook Electric Co
2700 Southport Ave Chicago 14 Ill 5-6-7

Copper Co D C
1667 S Michigan Ave
Chicago 5 Ill 3-8-10-18-19-34-45-48

Cosa Corp
405 Lexington Ave
New York 17 NY 22-25-26-31

Cra-Plate Co
747 Windsor St Hartford 1 Conn 21

Crestible Steel Co of America
P O Box 2518 Pittsburgh 30 Penna 4

Cummins-Chicago Corp
4740 Ravenwood Chicago 40 Ill 51

Cunningham Son & Co James
33 Litchfield St Rochester 8 NY 27

Custom Scientific Instruments Inc
841 Devon St Woodside 77 NY 8

Dallons Labs
5066 Santa Monica Blvd
Los Angeles 29 Calif 8-12-21-28

Daimo Victor Co Div Textron Inc
1515 Industrial Way Belmont Calif 14

Damp-Chaser Inc
1440 Ridgewood Blvd Henderson N Caro 13

Davenport Mfg Co
1713 N Ashland Ave Chicago 22 Ill 27

De Florez Co
116 E 30 St New York 16 NY 2

Designers For Industry
4241 Fulton Pkwy Cleveland 9 Ohio 2-3-8-45

Design Tool Corp
50 Washington St New York 6 NY 2-3-24-41

Devol Research Co
Brookside Dr Greenwich Conn 3

Development Eng'g Co
9 Cross St Norwalk Conn 5-6

Dittmore-Freimuth Corp
2517 E Norwich St Milwaukee 7 Wis 27-48

Doall Co
254 N Laurel Ave Des Plaines Ill 21-28-56

Doven Mach & Eng Inc
2706 W Van Buren St
Chicago 12 Ill 21-34-35-41

Dry Screen Process Inc
1016 Madison Ave
Pittsburgh 12 Pa 16-41-51-57

Dunmore Co
1300 17 St Racine Wis 16

Dunham-Buah Inc
W Hartford Conn 1

Dynex Inc
777 Dynes Dr Pewaukee Wis 7-50

Eastman Pacific Co
2320 E 8 St Los Angeles 21 Calif 47

Eisler Eng'g Co
750 S 13 St
Newark 3 NJ 3-8-11-21-26-30-31-32-33-41-56-57

Electric Boat Div General Dynamics
Eastern Point Rd Groton Conn 7

Electric Hotpack Co
Cottman Ave & Melrose St
Phila 35 Pa 5-6-7-10-13-14-18-47-48-54

Electric Steel Foundry Co
2141 N W 25 St Portland 10 Ore 57

Electric Terminal Corp
75 Virginia Ave Providence 5 RI 41-56

Electromatlon Co
1646 18 St Santa Monica Calif 15

Electro-Mechanical Div General Riveters Inc
785 Hertel Ave Buffalo 7 NY 39

Electronic Brazing Co
140 Glenridge Ave Montclair NJ 15-44

Electronic Designs Inc
28 School St Yonkers NY 25

Electronic Processes Corp of Calif
2190 Folsom St San Francisco 10 Calif 42

Electronic Production & Development
138 Nevada St El Segundo Calif 36

Electro Physics Co
297 Broadway New York 7 NY 56

Ellis & Watts Products Inc
P O Box 33 Cincinnati 36 Ohio 1-13

Elmer Eng'g Div American Steel Foundries
1150 Tennessee Ave Cincinnati 29 Ohio 37-38

Elzee Metal Products Co
775 39 St Brooklyn 32 NY 5-2

Emerson-Sack-Warner Corp
85 Washington St Somerville 43 Mass 1-4-6-7

Engelhard Industries Inc
113 Astar St Newark NJ 19

Engia Equipment Co
431 S Dearborn St Chicago 5 Ill 21-31

Environmental Equipment Co
369 Linden St Brooklyn 27 NY 5-6

Equip-A-Matic Eng'g Corp
6045 W Ogden Ave Chicago 50 Ill 2-3

Frazer Co
1068 S Clinton St Syracuse 4 NY 43

Erdoe Eng'g Corp
Official & Westgate Addison Ill 38

Ewald Instruments
Rout 711 Kent Conn 56

Eyedet Tool Co
236A Broadway Cambridge Mass 39

Factory Enterprises Inc
3481 Butler St Pittsburgh 1 Pa 13-14

Factory Service Co
1615 N 21 St Milwaukee 9 Wis 45

Fellows Gear Shaper Co
78 River St Springfield Vt 38

Fisher Co Inc Oscar
P O Box 426 Newburgh NY 6

Fish-Schurman Corp
70 Portman Rd New Rochelle NY 32

Forster-Teichmann Co
1212 Clark Bldg
Pittsburgh 22 Pa 18-19-32-47

France Mfg Co
10325 Berra Rd Cleveland 2 Ohio 43

Gardner-Denver Co
Front St Quincy Ill 4-9-39-45

Gates Radio Co
123 Hampshire St Quincy Ill 17

General Electric Co
10 Mansion St PO Box 278
Coxsack NY 18-47-48

General Electric Co Apparatus Sls Div
1 River Rd Schenectady 5 NY 18-19-48

General Kinetics Inc
555 23 St S Arlington 2 Va 8

General Research & Supply Co
572 Division St Grand Rapids 3 Mich 47

General RF Fittings Inc
702 Beacon St Boston 15 Mass 5

Gerardi Co A J
1050 Hawthorne Ave Melrose Park Ill 45

Gisholt Machine Co
1245 E Washington Ave Madison 10 Wis 22

Gordon Enterprises
5326 N Cahuzna Blvd
N Hollywood Calif 23-36

Green Instrument Co
385 Putnam Ave Cambridge 39 Mass 31

Greene Restifer Co
1-10 30 St Fairlawn NJ 15-44-57

Guild Electronics Inc
388 Broadway New York 13 NY 38

Gulton Industries Inc
212 Durham Ave Metuchen NJ 26-56

Halm Instrument Co
100 Glen Head Rd
Glen Head NY 2-3-25-32-41

Haloid Co
Haloid St Rochester 3 NY 23

Hannifin Co Div Parker-Hannifin Corp
625-D S Wolf Rd Des Plaines Ill 37-38-39

Hanson Van Winkle Munting Co
Church St Mantawan NJ 10

Hardman Co H V
571 Cortlandt St Belleville 9 NJ 50

Harper Electric Furnace Corp
56 River St Buffalo 2 NY 18

Helko Products Co
213 W 55 St New York 19 NY 31

Herman Plastics Inc
13-19 University Pl New York 3 NY 31-36

Hickok Electrical Instrument Co
10514 Dupont Ave Cleveland 8 Ohio 22

Hieatt Eng'g Co
2228 N Hollywood Way Burbank Calif 5-6-7

High Speed Hammer Co
318 Norton St Rochester 21 NY 39-43

High Vacuum Equipment Corp
2 Churchhill Rd Hingham Mass 18-34-57

Hobart Bros Co
Hobart Square E Troy 1 Ohio 56

Hoffman Co P R
321 Cherry St Carlisle Pa 28

Hoover Electronics Co Instrumentation Div
1122 C San Mateo SE Albuquerque N Mex 42

Hull-Standard Corp
Daviaville Rd at Pa Twpk Hathoro Pa
18-33-34-38-48-49-57

Huppert Co K H
6830 Cottage Grove Ave Chicago 37 Ill 18-47

Hydraulic Press Mfg Co Div Kuehring Co Marion Rd Mt Gilead Ohio	29-37-38	Mantec Inc 126 Maryland St El Segundo Calif	5-6-7-40	Pye Canada Ltd 82 Northline Rd Toronto 16 Ontario Canada	58
Ideal Arrowsmith Inc 3913 Evans Ave Cheyenne Wyo	7-57	Markem Machine Co 150 Congress St Keene NH	36	Q-Line Mfg Corp 1562 61 St Brooklyn 19 NY	52
Ideal Industries Inc 5127 Park Ave Sycamore Ill	15-43	Markwik Mfg Co 31 Sexton Rd Plainville LI NY	36	Radio Frequency Labs Inc Boumton NJ	15-44
Identification Service Corp 144 W 46 St New York 36 NY	33-35-33	Martindale Electric Co Box 617 Edgewater Branch Cleveland 7 Ohio	16	Ram Meter Inc 1100 Hilton Rd Ferndale 20 Mich	27
Indiana Steel Products Co 405 Elm St Valparaiso Ind	15-44	Maxt Development Co Inc 2212 E 12th St Davenport Iowa	7	Ramsey Radio & TV 925 St Louis Ave Vandalia Ill	15
Induction Heating Corp 181 Wythe Ave Brooklyn 11 NY	11-12-41	Mathis Co G E 6100 S Oak Park Ave Chicago 33 Ill	52	Rayco Electronic Mfg Inc 1116 Cumpston St N Hollywood Calif	26-27
Industrial Washing Mach Corp 32 Main St Matawan NJ	47	Mech-Tronic Equipment Co P O Box 510 Silver Spring Md	15-47	Raytheon Mfg Co 100 River St Waltham 54 Mass	56
Industrial Winding Machinery Co 120 Wall St New York 5 NY	25	Merz Engg Inc 200 S Harding St Indianapolis Ind	2-3	Ready Power Co 11231 Freud Ave Detroit 14 Mich	1
Ingersoll-Rand Co 11 Broadway New York 4 NY	9-57	Metal Fabricators Corp 63 Pond St Waltham 54 Mass	54	Red Point Corp 1907 Riverside Dr Glendale 1 Calif	34-57
Insuline Corp of America 186 Granite St Manchester NH	17-52	M-H Standard Corp 510 Communipaw Ave Jersey City 4 NJ	10	Rexdel Eng'g Corp 330 S Fair Oaks Ave Pasadena Calif	7-47
International Engg Inc 1745 Bolander Ave Dayton 1 Ohio	21-24	Mico Instrument Co 40 Trowbridge St Cambridge 38 Mass	16-26-31	Resitron Labs Inc 2908 Nebraska Ave Santa Monica Calif	57
Intl Pump & Machine Works 81 Dorcia Ave Livingston NJ	30-32-34-56-57	Micromech Mfg Co 1020 Commerce Ave Union NJ	4-21-28	Rex Rheostat Co 3 Foxhurst Rd Haldwin LI NY	26
International Radiant Corp 111 New York Ave Westbury NY	5-6-7	Mid-West Conveyor Co Metal Products Div & Sunshine Rd Kansas City 15 Kan	10-17-45-52	Richardson Labs Kenneth 254 Vincent Ave Lynbrook NY	15
International Research & Development Corp P O Box 55 Worthington Ohio	22	Millers Falls Co 57 Wells St Greenfield Mass	4-16	Robertshaw-Fulton Controls Co Aeronautical Div Santa Ana Freeway at Euclid Ave Anaheim Calif	46
Jacksonville Metals Plastics Co 575 Dora St Jacksonville Fla	52	Minster Machine Co 1500 S 5th St Minster Ohio	37-51	Robinson Inc Edward E Machinery Div 286 Preakness Ave Paterson 2 NJ	50
Jeffrey Mfg Co 803 N 4 St Columbus 16 Ohio	10-45	Mickella Infra-Red Co 23 & Grand Ave Cleveland 4 Ohio	18-47	Rockwell Co W S 220 Flint St Fairfield Conn	18-19-47
Joy Mfg Co 833 Oliver Bldg Pittsburgh 22 Pa	1-10-45	Modern Laboratory Equip Co 1811 1 Ave New York 28 NY	5-6-7-18	Ronan & Kunz 502 S Kalamazoo Ave Marshall Mich	6
Kahle Engg Co 1307 7 St N Bergen NJ	3-5-6-7-10-11-12-18-19-25-28-30-32-33-41-47-56	Multiplastics 770 W Factory Rd Addison Ill	34	Rotron Mfg Co Schoonmaker Lane Woodstock NY	1
Kahl Scientific Instrument Corp P O Box 1166 El Cajon Calif	57	Murphy & Miller 614 W Taylor St Chicago 5 Ill	5-6-7-13-14-47	Roy Co Milton 1300 E Mermaid La Phila Penna	13-14-49-50
Kahn & Co 541 Windsor St Hartford 1 Conn	7-13-14-49-52	National Vulcanized Fibre Co P O Box 311 Wilmington 99 Dela	46	Schaffer Air Industries 290 N Henry St Brooklyn 22 NY	40
Kelley & Co O G 98 Taylor St Boston 22 Mass	54	Nelson Vacuum Pump Co Geo F 2133 4 St Berkeley 10 Calif	57	Schmidt Inc Geo T 4100 N Ravenwood Ave Chicago 13 Ill	36-53
Kelsey-Hayes Co 3700 Military Ave Detroit 32 Mich	2	New Hermes Engraving Machine Corp 13 University Pl New York 3 NY	31	Scientific Electric 105 Monroe St Garfield N J	56
Kidde & Co 1156 Main St Belleville 9 NJ	8	Nichols & Clark Inc 321 Newburyport Tpk Danvers Mass	38	Scientific Glass Apparatus Co 100 Lakewood Terrace Hloomfield NJ	18-54-55-57
Kinevox-Hallen Div Electromation Co 1646 18 St Santa Monica Calif	15	Newbury Industries Inc Newbury Ohio	38	Segal Edward 72 Spring St New York 12 NY	2-5-41
Kinney Mfg Div Vacuum Equip Div N Y Air Brake Co 3529 Washington St Boston 30 Mass	7-11-12-18-34-47-57	New England Oven & Furnace Co 365 Boston Post Rd Orange Conn	47	Selas Corp of America Dreher Penna	14-19-41-47
Klein Electronics Co Leo 2404 S Lahrea Ave Los Angeles 16 Calif	15-44	New Rochelle Tool Corp 320 Main St New Rochelle NY	56	Sherrard Co R H 101 Philadelphia St Hanover Pa	56
Kollsman Instrument Corp Sub Standard Coil Products 80-08 45 Ave Elmhurst 73 NY	49	New York Air Brake Co 230 Park Ave New York 17 NY	5-6-11-18-33-34-57	S O S Cinema Supply Corp 602 W 52 St New York 19 NY	15
Krauter Electric Machine Co 360 Grove St Newark 3 NJ	30	Niagara Machine & Tool Wks 603 Northland Ave Buffalo 11 NY	37-51	South Bend Lathe Works 425 E Madison St South Bend 22 Ind	16-20
Krenzel Mfg Co 227 Fulton St New York 7 NY	58	Nichols & Clark Inc 321 Newburyport Turnpike Danvers Mass	38	Specialty Engg & Electronics Co 79 Clifton Pl Brooklyn 38 NY	1
Kurman Electric Co 191 Newel St Brooklyn 22 NY	52	North American Instruments Inc 2420 N Lake St Altadena Calif	5-49	Specialties Inc Skunks Misery Rd Syosset LI NY	26
Kuss Industries Inc Tacony & Lewis Sts Philadelphia 24 Pa	52	NRC Equipment Corp 160 Charlemont St Newton Highlands 61 Mass	5-11-12-14-18-24-34-57	Speedassembly Equipment Co Box 344 Fords NJ	2-5
Lahline Inc 3950 W Grand Ave Chicago 22 Ill	5-6-7-8-47	Nuclear Products-Erco Div ACF Industries Inc Riverdale Md	37-39-45	Spellman TV Co 3020 Webster Ave New York 67 NY	3
Lamson Inc 9230 W Grand Ave Franklin Park Ill	35	Numberall Stamp & Tool Co Huguenot Park Staten Island 12 NY	53	S & S Machinery Co 140 53rd St Brooklyn 32 NY	4-14-20-21-29-37-51
Lear Inc 3171 S Bundy Dr Santa Monica Calif	67	Oakite Products Inc 79 Rector St New York 6 NY	8	Stackbin Corp 1019 Main St Pawtucket RI	2-45
Leeds & Northrup Co 4970 Stenton Ave Philadelphia 44 Pa	18-19	O'Brien Electric Corp 6514 Santa Monica Blvd Hollywood 38 Calif	52	Stana Mfg Co 523 Shames Dr Westbury NY	37
Leiman Bros 146 Christie St Newark 5 NJ	57	O'Neil-Irwin Mfg Co 300 8th Ave Lake City Minn	37-38-45-51	Standard Electric Mfg Co Haldon Ave W Berlin NJ	50
Leisner Engg Co 201 E Jefferson St Plymouth Ind	39	Opto Engg Co 3524 W Washington Blvd Los Angeles 18 Calif	45	Standard Tool & Mfg Co 237 Laurel Ave Kearny NJ	2-3-18-19-25-30-32-47
Lennard Co Inc P M 1061 E 8 St Jacksonville 6 Fla	5-6-13-14-17	O & S Research Inc 1811 Hannard St Riverton NJ	32	Statham Labs Inc 12401 W Olympic Blvd Los Angeles 64 Calif	5-6-7
Lennard Co P M P O P O Box 56 Village Sta New York 14 NY	3-6-7-13-17	Pacific Scientific Co P O Box 22019 Los Angeles 22 Calif	18-19-47	Sta-Warm Electric Co 553 N Chestnut St Ravenna Ohio	14-48
Lepel High Frequency Labs 54-18 37 Ave Woodside 77 NY	11-12	Paragon Revolute Corp 77 South Ave Rochester 4 NY	23	Steel & Alloy Tank Co 1 Beasmer St Newark 5 NJ	7-48-49-54
Levin & Son Louis 3610 S Broadway Los Angeles 7 Calif	16-20	Peck & Harvey Mfg Corp 6650 N Western Ave Chicago 45 Ill	23	Steiner-Ives Co Springfield Rd Union NJ	6-18-19-47
Lithrascope Inc Commercial Div 133 E Santa Anita Ave Burbank Calif	15	Peck Stow & Wilcox Co 217-274 Center St Southington Conn	37	Stewart Eng'g Co Box 277 Sequil Calif	18-56
Lincoln Electric Co 22801 St Clair Ave Cleveland 17 Ohio	56	Peer Inc 1200 Milton St Benton Harbor Mich	56	Stokes Corp F J 5600 Tabor Rd Philadelphia 20 Pa	5-18-24-34-37-38-54-57
Lindberg Engg Co 2450 W Hubbard St Chicago 12 Ill	11-12-18-19	Penco Metal Products Div Alan Wood Steel Co Oaks Penna	45	Stremple Instrument Corp Lake George NY	3
Litton Engg Labs P O Box 949 Grass Valley Calif	18-30-32-47-56-57	Pereny Equipment Co 893 Chambers Rd Columbus 12 Ohio	18-47	Stromberg-Carlson Div General Dynamics Corp 100 Carlson Rd Rochester 3 NY	52
Litton Industries Components Div 5873 Rodeo Rd Los Angeles 16 Calif	3-39	Permutit Co Div Pfaufler Permutit Inc 3-50 W 44 St New York 36 NY	54	Studihaker Hydraulic Products Co 1733 N 35 Ave Melrose Park Ill	8-37-38-39
L & R Mfg Co 577 Elm St Arlington NJ	8-15	Phillips Mfg Co 3475 W Touhy Ave Chicago 45 Ill	8	Stueck Inc W Whitney Box 355 Old Saybrook Conn	37
Luma Electric Equipment Co P O Box 132 Toledo 1 Ohio	15-36-41	Pittsburgh Electrodryer Div McGraw-Edison Co Foot 32 St Pittsburgh Pa	13-14	Suncoat Instruments Div Milton Roy Co 6301 49th St St Petersburg Fla	13-14-49-50
Lydton Bros 85 Zabrackie St Hackensack NJ	6-47	Popper & Sons 300 4 Ave New York 10 NY	36	Surface Combustion Corp 2375 Door St Toledo 1 Ohio	1-13-19-47
MacDonald and Company 1324 Ethel St Glendale 7 Calif	3	Potter Aeronautical Corp Route 22 Union NJ	27	Swift & Sons M 10 Love Lane Hartford 1 Conn	36
Mack Electronics Div Inc 1000 S 2 St Plainfield NJ	8	Preco Measurements Corp RD 1 Millbrook Rd Flemington NJ	25	Taylor-Winfield Corp 1052 Mahoning NW Warren Ohio	56
Magnaflux Corp 7300 W Lawrence Ave Chicago 31 Ill	15-44	Precision Crystal Lab 2223 Warwick Ave Santa Monica Calif	47	Technical Devices Co 2340 Centinela Ave Los Angeles 64 Calif	43
Magnetic Corp 11765 W Olympic Blvd W Los Angeles 64 Calif	39	Pres Industrial Equipment Ltd 651 U S Hwy 22 Hillside NJ	31-36	Technicraft Co 1156 Commonwealth Ave Boston 34 Mass	31
Magnetic Instrument Co 546 Commerce St Thornwood NY	44	Pres Industrial Equipment Ltd Box 302 Puff Corners Rd N New Paltz NY	45	Telectro Industries Corp 85-18-37 St Long Island City 1 NY	52

Terrell Corp	
19 Lane St Waltham 54 Mass	35-49
Terris Div	
Consolidated Siphon Supply Co	
22 Wooster St New York 13 NY	7
Thermo Electric Mfg Co	
6112 Huff St Dubuque Iowa	18
Thomas Instrument Co	
Box 41 Oswego Rd Phoenix NY	43
Thomson Industries Inc	
1028 Plandome Rd Manhasset NY	16
Toledo Scale Co	
1027 Telegraph Rd Toledo Ohio	22-42
Topatron Inc	
942 E Ojai Ave Ojai Calif	7
Tort Manufacturing Co	
292 Walnut St St Paul 2 Minn	17
Townsend Mfg Co II P	
Brook St W Hartford 10 Conn	16-37-39-51
Trane Co	
Cameron & 2 St La Crosse Wisc	1-13
Trans-Sil Corp	
55 Hunock St Englewood NJ	11
Tri-Kris Co	
Walnut & Hatfield Sts Lansdale Pa	30
Trop-Arctic Inc	
637 S Mulberry St Muncie Ind	5-6-7
United Shoe Machinery Corp	
140 Federal St Boston 7 Mass	36-39
Universal Mfg Co	
410 Hillside Ave Hillside NJ	26
Universal Mfg Co Inc	
Grove St Irvington NJ	26
Universal Winding Co	
P O Box 1605 Providence 1 RI	25
U S Dynamics Corp	
1250 Columbus Ave	
Boston 20 Mass	5-6-11-12-13-14-15-17
U S Plywood Corp	
55 W 44 St New York 36 NY	5-6
U S Testing Co	
1315 Park Ave Hahoken NJ	5-6-7
Union Drop Forge & Tool Div Kellogg-Hynes Co	
2415 Whitesboro St Utica 4 NY	56
Vacuum Specialties Co	
34 Linden St Somerville Mass	57
Vacuum Tube Products Co	
2020 Short St Oceanside Calif	56
Veeco Vacuum Corp	
95 Denton Ave New Hyde Park NY	57
Vickers Inc Electric Products Div	
1087 Locust St St Louis 3 Mo	56
Victory Eng'g Co	
121 Springfield Rd Union NJ	6
Viking Pump Co	
4 Van Tassel St Cedar Falls Iowa	50
Virginia Electronics Co	
Rivior Rd & B&O RR Washington 16 DC	41
Vulcan Electric Co	
88 Holten St Danvers Mass	48
Wabash Metal Products Co	
1589 Morris St Wabash Ind	38
Wabash Stripper Co	
Unit Houdaille Industries Inc Akron NY	51
Warren Corp	
2901 Brighton Rd Pittsburgh 12 Pa	6-34
Warren Plastics Corp	
Warren Pa	38
Welch Scientific Co W M	
1513 Selwick St Chicago 10 Ill	37
Weldmatic Div Unitel Corp	
380 N Halstead Ave Pasadena Calif	56
West Coast Research Corp	
287 1/2 Westwood Blvd	
Los Angeles 54 Calif	47
Westinghouse Electric Corp	
P O Box 868 Pittsburgh 30 Pa	1-18
Westlake Plastics Co	
153 W Lenni Rd Lenni Mills Pa	38
Weymouth Instrument Co	
1440 Commercial St E Weymouth 89 Mass	25
Wheelabrator Corp	
400 S Byrd Mishawaka Ind	
White Dental Mfg Co SS Industrial Div	
10 E 40 St New York 16 NY	21
Whitney Metal Tool Co	
110 Forbes St Rockford Ill	37-51
Whitco Inc	
8330 Hyron St Schiller Park Ill	45
Wilmington Pump & Eng'g Corp	
1126 Prospect St Indianapolis 3 Ind	57
Wiedemann Machine Co	
4275 Wissahickon Ave Philadelphia 32 Pa	51
Williamson Development Co	
317 Main St W Concord Mass	46
Winger Aircraft Corp of Florida	
P O Box 2597 Drane Field	
Lakeland Fla	3-6-7-17-40-53
Windsor Co	
899 N Main St Glen Ellyn Ill	30-32
Wire Stripper Co	
1721 Eastham Ave E Cleveland 12 Ohio	43
Woodwelding Inc	
55 N Newport Blvd Newport Beach Calif	56
Wybar Electronics Inc	
P O Box 388 Auburn NY	43
Wyxeneek & Staff Inc	
223 N California Ave Chicago 12 Ill	4
Yerzley & Co	
744 Broad St Newark 2 NJ	1-13-17
Young Brothers Co	
1831 Columbus Rd Cleveland 13 Ohio	47

70—RADAR DEVICES

Aircraft landing control	1
Altimeters	2
Antennas	3
Boards, plotting	4

Callibrators	5
Indicators, moving target	6
Indicators, plan position	7
Indicators, proximity	8
Oscillographs	9
Radomes	10
Receivers	11
Recording cameras	12
Repeaters	13
Transmitters	14
Abrams Instrument Corp	
606 E Shiawassee St Lansing 1 Mich	12
Admiral Corp	
3800 W Cortland St Chicago 47 Ill	6-11-14
Aerolite Electronics Corp	
2207 Summit Ave Union City N J	4
Aeronutronic Systems Inc	
1234 Airway Glendale Los Angeles Calif	2
Aerophysics Dev Corp	
Sub Curtiss-Wright Corp	
P O Box 689 Santa Barbara Calif	2
Ainslie Corp	
312 Quincy Ave Quincy 69 Mass	3
Aitron Inc	
139 E 1st St Roelle NJ	3-11-14
Aitron Inc	
1108 W Elizabeth Ave Linden NJ	3-11-14
American Electronic Laboratories	
121 N 7 St Philadelphia 5 Pa	3-6-7-9
American Machine & Foundry Co	
Electronics Div	
1085 Commonwealth Ave	
Boston 15 Mass	5-7-11
American Machine & Foundry Co	
Defense Products Group	
1101 N Royal St	
Alexandria Va	3-6-5-11-13-14
American Machine & Foundry Co	
Gen Eng Labs	
11 Bruce Pl Greenwich Conn	2-3-11-14
Andrew California Corp	
841 E Maryland Ave Claremont Calif	3
Andrew Corp	
363 E 75 St Chicago 19 Ill	3
Anco Div Genl Aniline & Film Corp	
Charles St Binghamton NY	12
Antenna & Radome Research Assoc	
1 Hand St Westbury NY	3-10
A R F Products Inc	
P O Box 57 Rantion NM	1
Associated Metric Products	
Sub American Mch & Edry	
2709 N Garey Ave Pomona Calif	4-6-7-8
Atlas Precision Products Co	
3801 Castor Ave Philadelphia 24 Pa	3-4
Audicon Electronics Inc	
216 Lyon St Paterson 4 NJ	11
Avo Mfg Co	
1329 Arlington St Cincinnati 25 Ohio	1-10-14
Avion Div ACF Industries Inc	
11 Park Pl Paramus NJ	11-14
Baird-Atomic Inc	
33 University Rd Cambridge 38 Mass	1
Bell Aircraft Corp	
P O Box 1 Buffalo 5 NY	1-3-5-7-10-11-13-14
Bendix Aviation Corp Pacific Div	
11600 Sherman Way N Hollywood Calif	1-2
Bendix Aviation Corp Bendix Radio Div	
Baltimore 4 Md	1
Bendix Aviation Corp	
1104 Fisher Bldg Detroit 2 Mich	1-2-3-14
Benham-Lehner Corp	
11930 W Olympic Blvd	
Los Angeles 64 Calif	12
Birdair Structures Inc	
240 Larkin St Buffalo 10 NY	3-10
Blaire Electronics Inc	
14757 Keswick St Van Nuys Calif	3
Rollin Labs Inc	
W Main St Bolton Mass	2
Brach Mfg Corp Div General Bronze Corp	
200 Central Ave Newark 3 NJ	3
Brooks & Perkins Inc	
1950 W Fort St Detroit 38 Mich	3-4
Brush Instruments	
3405 Perkins Ave Cleveland 14 Ohio	9
Rudd Stanley Co	
43-01 22 St Long Island City 1 NY	3
Comarflex Corp	
1947 Broadway New York City 23 NY	12
Canadian Applied Research Ltd	
1800 O'Connor Dr Toronto 16 Can	2-12
Canoga Corp	
5955 Sepulveda Blvd	
Van Nuys Calif	3-7-11-14
Chromatic Television Laboratories	
1501 Broadway New York 36 NY	12
Cinema-Television Ltd	
Worsley Bridge Rd Lower Sydenham	
London S E 26 England	9-12
Coaxial Connector Co	
37 N 2 Ave Mt Vernon NY	3
Conrad & Moser	
2 Borden Ave Long Island City 1 NY	3
Consolidated Electrodynamics Corp	
300 N Sierra Madre Villa Pasadena Calif	9
Continental Electronics Mfg Co	
4212 S Buckner Blvd Dallas 27 Texas	14
Control Electronics Co Inc	
1925 New York Ave Huntington Sta NY	5-11
Convaire-San Diego	
P O Box 1950 San Diego 12 Calif	3-6-7-8-10
Coors Porcelain Co	
600 9th St Golden Colo	10

Curbin Corp	
5419 56th Place Riverdale Md	1-3-11-14
Corning Glass Works	
Corning NY	10
Comser Canada Ltd	
201 Windsor St	
Halifax Nova Scotia Canada	1
Craig Systems Inc	
50 Holten St Danvers Mass	1-3-10
Curtiss-Wright Corp Electronics Div	
631 Central Ave Carlstadt NJ	6-7-8
Dale Products Inc	
P O Box 136 Columbus Nebr	3
Dalmo Victor Co Div Textron Inc	
1515 Industrial Way Belmont Calif	8
Defiance Eng'g & Microwave Corp	
Beverly Airport Beverly Mass	3
Designers For Industry	
4241 Fulton Pkwy Cleveland 9 Ohio	4-7-11-14
Diamond Antenna & Microwave Corp	
7 North Ave Wakefield Mass	3-10
Dorne & Margolin	
29 New York Ave Westbury NY	3
D & S Mfg Co	
424 Burk Ave Ridley Park Pa	3
DuMont Labs A B	
750 Bloomfield Ave Clifton NJ	4-9-11
Dynamic Electronics Inc	
73-29 Woodhaven Blvd Forest Hills NY	3
Eclipse-Pioneer Div	
Bendix Aviation Corp Teterboro NJ	3
Electronic Associates Inc	
Long Branch NJ	1-4
Electronic Communications Inc	
1501 72 St St Petersburg Fla	2-8-11-14
Electronic Specialty Co	
5121 San Fernando Rd	
Los Angeles 39 Calif	3
Electronic Tube Corp	
1200 E Mermaid Lane Phila 18 Pa	9
Elm Labs	
10 Washington Ave	
Hastings-on-Hudson NY	4
Emerson & Cuming Inc	
869 Washington St Canton 1 Mass	10
Emerson Electric Mfg Co	
8100 Florissant Ave St Louis 21 Mo	3-6
Emerson Plastics Corp	
Seabury Ave & Butler Pl Bronx 61 NY	4-10
Fairchild Camera and Instrument Corp	
Robbins Ln Syosset NY	12
Fairchild Guided Missiles Div	
Fairchild Engine & Airplane Corp	
Straight Path Wyandanch LI NY	10
Farnsworth Electronics Co Div I T & T	
3702 E Pontiac St Ft Wayne Ind	3
Farrand Controls Inc	
4401 Bronx Blvd New York 70 NY	10
Ferroxcube Corp of America	
35 E Bridge St Saugerties NY	29
Flight Research Inc	
P O Box 1-F Richmond 1 Va	12
Ford Instrument Co Div Sperry Rand Corp	
31-10 Thomson Ave Long Island City I NY	4
Furzehill Labs Ltd	
67 Clarendon Rd Watford England	9
Gabriel Electronics Div Gabriel Co	
135 Crescent Rd	
Needham Heights 94 Mass	3-10
General Bronze Corp	
711 Stewart Ave Garden City NY	3
General Communication Co	
677 Beacon St Boston 15 Mass	11-14
Geotechnical Corp	
3712 Haggard Dr Dallas 9 Texas	9-12
Goodyear Aircraft Corp	
1210 Massillon Rd Akron 15 Ohio	3-10-11
Gordon Enterprises	
5352 N Caburga Blvd N Hollywood Calif	12
Granger Associates	
966 Commercial St Palo Alto Calif	8-11-13-14
Gray Pantograph Engraving	
200 Washington St Hoboken NJ	4
Grem Eng'g Co	
923 Longview Rd King of Prussia Pa	11-14
Green Industries Inc Electronic Products Div	
3701 Reading Rd	
Cincinnati 15 Ohio	6-7-11-14
Gulton Industries Inc	
212 Durham Ave Metuchen NJ	3-5-10
Haller Raymond & Brown	
Cireleville Rd	
State College Pa	1-2-3-4-5-6-7-11-12-13-14
Hazeltine Electronics Div Hazeltine Corp	
59-25 Little Neck Pkwy	
Little Neck 62 NY	1-2-3-6-7-11-14
Huffman Electronics Corp	
3761 S Hill St	
Los Angeles 7 Calif	1-5-7-11-13-14
Hugan Labs Inc	
155 Perry St New York 14 NY	9
Honeycomb Co of America	
3 Burroughs St Bridgeport Conn	10
Houston Fearless Div Color Corp of America	
11801 W Olympic Blvd	
Los Angeles 64 Calif	3-10-12
Hull-Standard Corp	
Daviesville Rd at Pa Twpk Hatboro Pa	10
Insulating Fabricators Inc	
150 Union Ave E Rutherford NJ	3
Inauline Corp of America	
186 Granite St Manchester NH	4
I-T-E Circuit Breaker Co	
Special Products Div 601 Erie Ave	
Philadelphia 34 Pa	3-11
Jackson Electronics Inc	
23 Woodcrest Rd West Chester Pa	1
Johnson Aircraft Eng'g Co M J	
Box 10 Morristown Airport	
Morristown NJ	1

J-V-M Eng'g Co
4633 S Lawndale Ave Lyons Ill 3
Kearfoot Co Inc
14844 Onnard St Van Nuys Calif 3
Keller Products Inc
41 Union St Manchester NH 10
Kelsey-Hayes Co
3600 Military Ave Detroit 32 Mich 3
Kennedy & Co D S
155 King St Cohasset Mass 3-10
Koch & Sons H
Hwy 101 Cortie Madera Calif 10
Kollmorgen Optical Corp
347 King St Northampton Mass 2
Laboratory for Electronics Inc
75 Pitts St
Boston 14 Mass 1-6-7-9-10-11-14
Laminair Inc
18530 S Broadway (Gardena Calif
La Pointe Industries Inc
165 W Main St Rockville Conn 2-3
Las-Lab Inc
Route 32 Sykesville Md 12
Lavoie Labs Inc
Matawan-rechold Rd
Morranville NJ 7-9-11-14
Levinthal Electronic Products Inc
3180 Hanover St Palo Alto Calif 14
Licco Inc
3610 Oceanside Rd Oceanside NY 3
Litton Industries of Calif
335 N Foothill Rd Beverly Hills Calif 11-14
McMillan Industrial Corp
Brownville Ave Ipswich Mass 10
Mack Electronics Div Inc
1000 S 2 St Plainfield NJ 2-3-11-14
Madigan Corp
525 Mineola Ave Carle Place NY 11
Magnavox Corp
2131 Bueter Rd Ft Wayne 4 Ind 11-14
Magnavox Co
2131 Bueter Rd
Ft Wayne Ind 2-3-5-6-7-9-11-13-14
Magnesium Products of Milwaukee Inc
745 W Virginia St Milwaukee 4 Wisc 10
Maryland Electronic Mfg Corp
5009 Calvert Rd College Park Md 3
Mast Development Co Inc
2212 E 12 St Davenport Iowa 12
Maxson Corp W L
475 10 Ave New York 18 NY 3-4-11-13-14
Measurement Eng'g Ltd
232 John St Arnprior Ontario Can 7
Microwave Eng'g Labs Inc
943 Industrial Ave Palo Alto Calif 1-2-11
Milgo Electronic Corp
7601 NW 37 Ave Miami 47 Fla 4
Misselco Inc
P O Box 716 Melbourne Fla 1-7
Missouri Research Labs Inc
2109 Locust St St Louis 8 Mo 5
Mohawk Business Machines Corp
944 Halsey St Brooklyn 33 NY 11
Moran Instrument Corp
170 E Orange Grove Ave Pasadena 8 Calif 4
Narda Microwave Corp
118-160 Herricks Rd Mineola NY 2
Nevada Air Products Co
P O Box 2472 Reno Nev 11-14
Nichols Products Co
325 W Main St Moorestown NJ 4
Norden-Ketay Corp
Commerce Rd Stamford Conn 3-6-7-11-14
Olympic Radio & TV
34-01 38 Ave Long Island City 1 NY 11-14
Otis Elevator Co Electronic Div
35 Ryerson St Brooklyn 5 NY 4-14
Packard Bell Electronics Corp
12333 W Olympic Blvd
Los Angeles 64 Calif 11-14
Parsons Co Ralph M Electronics Div
151 S De Lacey Ave Pasadena Calif 2-8
Penn-East Eng'g Corp
Box 240 Kutztown Penna 6-7
Petroff Corp Peter Av
127 Water St New York 5 NY 3
Philio Corp
Tioga & C Sts
Philadelphia 24 Pa 1-3-6-7-8-11-13-14
Philio Corp Gov't & Industrial Div
4700 Wissahickon Ave
Philadelphia 44 Pa 11-13-14
Polarad Electronics Corp
43-20 34 St Long Island City 1 NY 7
Prodelin Inc
307 Berens Ave Kearny NJ 3
PSC Applied Reseach Ltd
1500 O'Connor Dr Toronto 16 Canada 12
Q-Line Mfg Corp
1562 61 St Brooklyn 19 NY 3
Radiation Eng'g Labs
Main St Maynard Mass 3
Radiation Inc
P O Box 7 Melbourne Fla 3
Radio City Products Co
Centre & Glendale Sts Easton Pa 1-5-7-8-9
Ramo-Woolldridge Corp
Electronic Instrumentation Div
P O Box 8405 Denver 10 Colo 2-5
Raytheon Mfg Co Maynard Lab
Thompson St Maynard Mass 2
Raytheon Mfg Co
100 River St Waltham 54 Mass 3-11
Rea Co J B
1723 Cloverfield Blvd Santa Monica Calif 6-8
Reeves Instrument Corp
Roosevelt Field Garden City NY 3-11-14
Reimer Electronics Co
Centre & Glendale Sts Easton Pa 4
Reed Eng'g Corp
330 S Fair Oaks Ave Pasadena Calif 11-14

RS Electronics Corp
P O Box 368 Sta A Palo Alto Calif 11
Safe Flight Instrument Corp
4 Water St White Plains NY 1
Sanders Associates
95 Canal St Nashua NH 2-3
Scientific-Atlanta Inc
2182 Piedmont Rd NE Atlanta 9 Ga 3-11
Servonics Inc
822 N Henry St Alexandria Va 5
Silicone Insulation Inc
Seabury Ave & Butler Pl Bronx 61 NY 3-10
Skiatron Electronics & TV Corp
180 Varick St
New York 14 NY 1-2-4-5-6-7
Solartron Electronic Group Ltd
Queens Rd Thames Ditton Surrey England 9
Sperry Gyroscope Co Sunnyvale Dev Center
294 Commercial St
Sunnyvale Calif 6-7-11-14
Sperry Gyroscope Co
Air Arm Div Great Neck NY 7-11-14
Sperry Gyroscope Co
Surface Armament Div
Great Neck NY 8-11-14
Sperry Gyroscope Co Marine Div
Roosevelt Field Mineola NY 8-6-7
Sperry Gyroscope Co Microwave Electronics Div
Great Neck NY 3-5
Spincraft Inc
4122 W State St Milwaukee 8 Wisc 3
Spinform Inc
65 Mechanic St Attleboro Mass 3
Statistical Instr Co
330 Haven Ave New York 33 NY 6
Stavid Eng'g Inc
U S Route 22 Plainfield NJ 2-3-11-14
Stewart Warner Electronics Div
1300 N Kostner Ave Chicago 51 Ill 2
Suffolk Products Corp
Woodbine & Scudder Ave
Northport NY 8-4-7
Summit Industries Inc
2104 W Rosecrans Ave Gardena Calif 10
Super Electronics Corp
53 Worth St New York 13 NY 1-3-9-14
Sylvania Electric Products Co
Electric Systems Div
100 First Ave Waltham 54 Mass 2-3-11-14
Technical Appliance Corp
1 Taco St Sherburne NY 3
Technical Oil Tool Corp
1057 N La Brea Los Angeles 23 Calif 3-5
Teledrome Mfg Corp
28 Ranick Dr Amityville LI NY 12
Telectro Industries Corp
35-18 37 St Long Island City 1 NY 11-13-14
Telephonics Corp
Park Ave Huntington LI NY 13-14
Telrad Mfg Corp
Route 69 Flemington NJ 3-11-14
Telrad Mfg Corp
1440 Broadway New York 18 NY 5-10-11-14
Temco Aircraft Corp
P O Box 6191 Dallas 2 Texas 13
Texas Instruments Inc
6000 Lemmon Ave Dallas 9 Texas 1-3-6-12
Thermal Refractories Corp
4501 Dell Ave N Bergen NJ 10
Tornaren Co C W Corp
236 Pearl St Somerville 43 Mass 3
U S Testing Co
1415 Park Ave Hoboken NJ 3
Vectron Inc
1611 Trapelo Rd Waltham 54 Mass 1-2-11
Waldorf Instrument Co Div F C Huyck & Sons
Park Ave Huntington Station NY 4-5-6-7-13
West Coast Research Corp
2371 1/2 Westwood Blvd
Los Angeles 64 Calif 6-7-8
Westinghouse Electric Corp Div Air Arm Div
P O Box 746 Friendship Int'l A P
Baltimore Md 3-6-7-11
Westinghouse Electric Corp
P O Box 868
Pittsburgh 19 Pa 1-3-6-7-8-11-13-14
Winder Aircraft Corp of Florida
P O Box 2397 Drane Field
Lakeland Fla 4
Zenith Plastics Co
1600 W 185 St Gardena Calif 8-10
Zoomar Inc
55 Sea Cliff Ave Glen Cove NY 12

71—RECEIVERS, COMMUNICATION

Converters, amateur 1
Converters, FM 2
Converters, R-F 3
Converters, UHF-TV 4
Preselctors 5
Receivers, amateur 6
Receivers, AM communication .. 7
Receivers, aviation fixed 8
Receivers, aviation mobile 9
Receivers, battery portable ... 10
Receivers, carrier telegraph ... 11
Receivers, citizens band 29
Receivers, civil defense 12
Receivers, diversity 13
Receivers, fixed frequency 14

Receivers, FM communication ... 15
Receivers, frequency shift 16
Receivers, infrared 30
Receivers, marine 17
Receivers, microwave 18
Receivers, police 19
Receivers, radar 31
Receivers, radio paging 20
Receivers, railroad 21
Receivers, remote pickup, fixed
Receivers, remote pickup, mobile 23
Receivers, SSB 24
Receivers, TV 25
Receivers, UHF 26
Receivers, ultra-violet 32
Receivers, VHF 27
Receivers, VVV 28

ACF Industries Nuclear Prods-Erco Div
45 Lafayette St Riverdale Md 9-18
Adler Electronics Inc
1 Lefevre Lane
New Rochelle NY 7-14-16-24-26-27
Admiral Corp
3800 W Cortland St
Chicago 47 Ill 9-10-12-15-18-25-26-27-31
Advance Industries Inc
640 Memorial Dr Cambridge 39 Mass 31
Aeronautical Comm Equip Co
3090 S W 39 Ave
Miami 33 Fla 7-8-9-13-14-16
Aeronautical Electronics Inc
P O Box 6527
Raleigh N Carolina 7-8-9-12-14-15-19-21-23-27
Aerophysics Dev Corp
Sub Curtiss-Wright Corp
P O Box 689 Santa Barbara Calif 26-27-30
Airborne Electronics Co
6813 Troost Ave N Hollywood Calif 17
Airborne Instruments Lab Inc
160 Old Country Rd Mineola NY 14
Aircrom Inc
354 Main St Winthrop Mass 18-28
Aircrom Inc
133 E 1st St Roselle NJ 13
Aircraft Radio Corp
Houton NJ 9-26-27
Airmec Ltd
High Wycombe Buckinghamshire England 7
Airtiron Inc
1108 W Elizabeth Ave Linden NJ 18-31
American Communications Corp
280 Broadway New York 17 NY 12
American Electronic Laboratories
121 N 7 St Philadelphia 6 Pa 14-18-31
American Machine & Foundry Co
Electronics Div 1085 Commonwealth Ave
Boston 15 Mass 14
American Machine & Foundry Co
Defense Products Group 1101 N Royal St
Alexandria Va 18
American Microwave Corp
11754 Vose St N Hollywood Calif 18
American Television & Radio Co
800 E 4 St St Paul 1 Minn 25
Applied Electronics Co
213 E Grand Ave E
San Francisco Calif 7-14-17
Applied Research Inc
76 S Bayles Ave
Port Washington NY 3-16-27
A II & T Electronics Inc
1100 E 6th St N Little Rock Ark 3-4-5
Audicon Electronics Inc
216 Lyon St 1-2-3-6-7-8-10-12-14-15-17-20-29-31
Avia Products Co
7266 Beverly Blvd
Los Angeles 36 Calif 14-19-26-27
Barker & Williamson Inc
Canal & Beaver Sts
Bristol Pa 3-6-7-12-13-14-16-24-28
Barry Electronics Corp
512 Broadway New York NY 6-24
Bassett Inc Rex
1314 N E 17 Ct Ft Lauderdale Fla 7-14-17
Bell Aircraft Corp
P O Box 1 Buffalo 8 NY 18-24-26-27
Bendix Aviation Corp Bendix Radio Div
Baltimore 4 Md 7-8-9-14-15-19-21-26-27
Bendix Aviation Corp
1104 Fisher Bldg
Detroit 8 Mich 7-8-9-10-15-17-19-21-31
Bergen Labs
247 Crooks Ave Clifton NJ 26
Hills Electronic Corp
Box 804 Sussex NJ 10-17
Blonder-Tongue Laboratories
9-25 Alling St Newark 3 NJ 4
Bogen-Presto Div Siegler Corp
P O Box 890 Paramus NJ 15
Bolton Labs Inc
W Main St Bolton Mass 18
Browning Labs Inc
750 Main St Winchester Mass 2-14-15-27-28
Bryg Inc
Butler Pa 25
Budelman Radio Corp
375 Fairfield Ave Stamford Conn 14-15-18
Calses Electronics Co
4801 Exposition Blvd
Los Angeles 16 Calif 87

Canadian Aviation Electronics Ltd
6214 Cote de Liasse Rd
St Laurent Quebec Canada 7-14-26-27

Canada Corp
5955 Sepulveda Blvd
Van Nuys Calif 18-26-27-31

Central Electronics Inc
1247 W Belmont Ave Chicago 13 Ill 1-6-24

CGS Laboratories Inc
Routes 7 & 35 Ridgefield Conn 26-27

Clegg Labs Div Clegg Inc
Ridgedale Ave
Morristown NJ 1-6-7-11-15-
24-26-27-28

Collins Radio Co
855 35 St NE
Cedar Rapids Iowa 6-7-8-9-11-13-14-
15-16-18-24-26-27

Communications Co
324 Green Ave
Coral Gables Fla 7-8-9-15-19-27

Comac Instrument Co
66-11 99 St Forest Hills 74 NY 1-6

Communication Equipment & Eng'g Co
5646 W Race Ave Chicago 44 Ill 14

Conn Telephone & Electric Corp
20 Britannia St Meriden Conn 11-14-15-21

Consolidated Productions Inc
19217 E Foothill Blvd Glendora Calif 26-27

Consolidated Productions Inc
Broward Int'l Airport
Ft Lauderdale Fla 22

Control Electronics Co Inc
1925 New York Ave
Huntington Sta NY 18-26-27-31

Cook Co Frank R
36 S Santa Fe Dr Denver 23 Colo 21

Corbin Corp
5419 56th Place
Riverdale Md 7-13-14-24-26-27-31

Creative Electronics Corp
24 Lincoln Ave
Stamford Conn 1-2-3-4-5-7-8-9-10-12-
14-15-17-24-26-27-29

Crosby Laha Inc
Box 233 Robbins Lane
Hicksville NY 1-13-24

Daven Co
Route 10
Livingston NJ 2-3-7-8-9-10-13-14-15-16-17-
21-22-23-24-26-27-28-29

Daystrom-Weston Industries
Div Daystrom Inc
753 Main St Poughkeepsie NY 14-27

Dayton Aviation Radio & Equipment Corp
P O Box 258 Troy Ohio 8-9-12-28-27

Designers For Industry
241 Fulton Pkwy
Cleveland 8 Ohio 2-4-7-15-18-24-
25-26-27-29-31

Dollar Co Robert Communications Equip Div
50 Drumm St
San Francisco 11 Calif 7-12-14-16-20

Dunlap Electronics
254 9 St Des Moines 14 Iowa 1-3

Dynamic Electronics Inc
23-29 Woodhaven Blvd
Forest Hills NY 7-9-14-15-18-31

Dynatronic Inc
717 W Amelia Ave Orlando Fla 15-27

Eldico Electronics
29-01 Barden Ave
Long Island City 1 NY 1-6-7-8-9-10-11-12-13-
14-16-17-19-21-24-27

Electrical Communications Inc
765 Clementina St
San Francisco 3 Calif 23

Electronic Communications Inc
1501 72 St
St Petersburg Fla 5-6-9-14-15-16-17-
24-26-27-30-31

Electronics Design Co
490 E Cornell St P O Box 401
Enid Okla 7-8-9-12-14-15-26-27-29

Electronics Development Co
3743 Cahuenga Blvd N Hollywood Calif 25

Electronic Int'l Co Inc
20 N Lee St Oklahoma City 2 Okla 1-3

Electro-Voice
Cecil & Carrol Sts
Buchanan Mich 1-5-6-12-27

Elk Electronics Labs Inc
333 W 82 St
New York 19 NY 8-9-10-16-26-
27-28-31

Empire Product Sales Corp
37 Prospect St Amsterdam NY 14-18-26-27

Engineering Associates
434 Patterson Rd
Dayton 9 Ohio 14-18-26-27-28-31

Entron Inc
4902 Lawrence St Bladensburg Md 3-4

Erco Radio Labs Inc
637 Stewart Ave
Garden City NY 7-8-11-13-14-16-17-
19-24-26-27-28

Farnsworth Electronics Co Div I T & T
3702 E Pontiac St Ft Wayne Ind 18-30-31

Gates Radio Co
123 Hampshire St Quincy Ill 5-14

General Electric Co
Communication Products Dept
P O Box 1122
Syracuse NY 9-12-15-16-17-18-19-
21-23-26-27-29

General Railway Signal Co
P O Box 600 Rochester NY 10-31

Goodyear Aircraft Corp
1210 Massillon Rd Akron 16 Ohio 18

Granger Associates
967 Commercial St
Palo Alto Calif 18-26-27-31

Gray Radio Co
501 Forest Hill Blvd W Palm Beach Fla 17

Grem Eng'g Co
923 Longview Road King of Prussia Pa 18

Green Industries Inc/Electronic Products Div
9701 Reading Rd
Cincinnati 15 Ohio 8-9-14-31

Gulton Industries Inc
212 Durham Ave Metuchen NJ 26-27

Gyro Electronics Co
325 Canal St New York 13 NY 10

Haller Raymond & Brown
Crevelille Rd
State College Pa 8-9-10-11-14-15-16-
18-20-22-26-27-30-31

Hall-Scott Inc
2950 N Ontario St Burbank Calif 9

Hammarlund Mfg Co
460 W 34 St
New York 1 NY 1-3-6-7-8-12-13-14-
16-19-24-25-29

Harvey-Wells Electronics Inc
North St Southbridge Mass 6-7

Hazeltine Electronics Div Hazeltine Corp
69-25 Little Neck Pkwy
Little Neck 62 NY 7-14-15-18-26-27-31

Heath Co
705 Territorial Rd Benton Harbor Mich 6-7

Hoffman Electronics Corp
3761 S Hill St
Los Angeles 2 Calif 7-8-9-14-16-16-
24-26-27-30-31

Hudson American
29 01 Borden Ave Long Island City NY 17

Idea Inc
7900 Pendleton Pk
Indianapolis 26 Ind 1-2-4-12-15-19

Industrial Development Eng'g Assoc
7900 Pendleton Pk
Indianapolis Ind 1-12-14-15-19-21-27

Industrial Radio Corp
428 N Parkside Ave
Chicago 44 Ill 10-12-14-15-19-
20-22-23-27

Instrument Corp of Fla
P O Box 1226 Bldg 14 Melbourne Fla 6-24

Insul-Electrics Inc
1369 Industrial Rd San Carlos Calif 25

Intelix Systems Inc
22 Thames St New York 6 NY 13-24

International Research Associates
2221 Warwick Ave Santa Monica Calif 10

I-T-E Circuit Breaker Co
Special Products Div 601 E Erie Ave
Philadelphia 34 Pa 18

Jarvis Electronics Corp
1140 Cherry St Winnetka Ill 9

Kear Eng'g Corp
2905 Middlefield Rd Palo Alto Calif 9-17

Kahn Research Labs
22 Pines St Freeport NY 24

K-F Development Co
2806 Spring St Redwood City Calif 6

Kuss Industries Inc
Tacony & Lewis Sts
Philadelphia 24 Pa 7-14-15-20

Lambda-Pacific Eng'g Inc
14725 Armita St Van Nuys Calif 18

Land-Air Inc Instrument & Electronic Div
2133 Adams Ave
San Leandro Calif 7-8-14-15-21

Land-Air Inc
7444 W Wilson Ave Chicago 31 Ill 15-26

Lane Electronics Mfg Corp
7254 Atoll Ave N Hollywood Calif 17

Lavoie Labs Inc
Matawan-Freehold Rd
Morganville NJ 18-28-31

Lear Inc
8171 S Bundy Dr
Santa Monica Calif 7-8-9-13-14-15

Lears Inc
110 Ionia Ave NW
Grand Rapids 2 Mich 3-8-9-26-27

Lel Inc
380 Oak St Copiague NY 15

Lenkurt Electric Co
1105 County Rd San Carlos Calif 11-18

Litton Industries of Calif
336 N Foothill Rd Beverly Hills Calif 16-24

Lorain County Radio Corp
203 9th St Lorain Ohio 17

Mark Electronics Div Inc
1000 S 2 St
Plainfield NJ 7-8-9-14-15-16-26-27

Madison Corp
526 Mineola Ave Carle Place NY 7-9-19-29

Madison Fielding Corp
863 Madison St Brooklyn 21 NY 4

Magnavox Co
2131 Hueter Rd Ft Wayne Ind 8-9-15-26-27

Marconi Instruments Ltd
111 Cedar Lane Englewood NJ 7-15-26-27

Mason Corp W L
475 10 Ave New York 18 NY 31

Measurement Eng'g Ltd
232 John St Arnprior Ontario Can 7-8-17

Melpar Inc
3000 Arlington Blvd Falls Church Va 26-27

Microwave Eng'g Labs Inc
943 Industrial Ave Palo Alto Calif 26

Mitchell Industries Inc
Municipal A P P O Box 17
Mineral Wells Texas 9

Michigan Electronics Inc
854 N Rockwell St
Chicago 33 Ill 14-15-19-20-23

Model Eng'g & Mfg Inc
50 Frederick St Huntington Ind 14-15-27

Mohawk Business Machines Corp
944 Halsey St Brooklyn 38 NY 7-11

Monroe Associates Inc
2628 Spring St Redwood City Calif 21

Morrow Radio Mfg Co
2794 Market St Salem Oregon 1-6-12-14-24

Mosler Research Products Inc
3 Keeler St Danbury Conn 10-14-15-19

Multi-Products Co
21470 Coolidge Hwy
Oak Park 37 Mich 6-12-14-17-24-29

National Aeronautical Corp
Commerce Dr Ft Washington Penna 8-9-27

National Company Inc
61 Sherman St
Malden 48 Mass 1-6-7-8-10-12-
13-15-16-17-24-27

National Electronics Labs Inc
1713 Kalamazoo Rd N W
Washington 9 DC 11-15-27

Nems-Clarke Inc
919 Jesup-Blair Dr
Silver Springs Md 7-14-15-24-26-27

Nevada Air Products Co
P O Box 2472 Reno Nev 3

Northern Radio Co
143 W 22 St New York 11 NY 7-13-15-16

Nuclear-Electronics Corp
2632 W Cumberland St
Philadelphia 32 Pa 14-17-28

O'Brien Electric Corp
6514 Santa Monica Blvd
Hollywood 38 Calif 15

Olympic Radio & TV
31-31 89 Ave
Long Island City 1 NY 7-15-25-26-27-31

Packard Bell Electronics Corp
12833 W Olympic Blvd
Los Angeles 64 Calif 7-12-14-15-19-25-30-31

Palmer Inc M V
4002 Fruit Valley Rd Vancouver Wash 15-16

Pearce Simpson Inc
3023 Coral Way Miami 34 Fla 17

Philco Corp
Tioga & C Sts
Philadelphia 24 Pa 7-15-17-18-25-26-27-31

Philco Corp Govt & Industrial Div
4002 Wisconsin Ave
Philadelphia 44 Pa 25-26-27-29-31

Planet Service Corp
88-02 89-06 102 St Richmond Hill 18 NY 17

Plectron Corp
Overton Nehr
14-15-19

Polarad Electronics Corp
43-20 34 St
Long Island City 1 NY 2-3-4-5-18-26-27-31

Polytechnic Research & Development Co
202 Tillary St Brooklyn 1 NY 18

Pratt Albert
114 W Lake View Ave
Milwaukee 17 Wis 14-15-18-19-26-27

Presman Instrument Corp
52 W Houston St New York 12 NY 18

Prescott TV Co
7352 Beverly Blvd Los Angeles 36 Calif 25

Presn Wireless Labs Inc
25 Prospect Pl W Newton 66 Mass 13-16

Production Research Corp
Thornwood NY 9-10-12-15-18

Pye Canada Ltd
82 Northline Rd
Toronto 16 Ontario Canada 7-8-9-14-15-
17-18-23-27

Pye Corp of America
1149 Raritan Ave
Highland Park NJ 7-8-9-10-14-15-
17-19-21-26-27

Pye Telecommunications Ltd
Newmarket Rd
Cambridge England 7-8-10-11-12-14-15-
17-18-19-21-22-23-27

Q O S Corp
Bronx Blvd at 216 St New York 67 NY 30

Radio City Products Co
Centre & Glendale Sts Easton Pa 31

Radio Eng'g Labs
29-01 Borden Ave
Long Island City 1 NY 5-13-14-15-
18-22-26-27

Radio Kite Inc
120 Cedar St New York 6 NY 7-10-20-25

Radio Mfg Engineers Inc
501 Walnut St Washington Ill 1-4-5-6-7-12-24

Rauland-Borg Corp
3335 W Addison St
Chicago 18 Ill 5-11-12-18

Raytheon Mfg Co Commercial Equip Div
100 River St Waltham 54 Mass 18

Raytheon Mfg Co
100 River St Waltham 54 Mass 18-31

Regency Div IDEA Inc
7800 Pendleton Pike
Indianapolis Ind 1-4-12-14-15-19-21-27

Reidel Eng'g Corp
330 S Fair Oaks Ave Pasadena Calif 26-27

Rhein Sound Systems Inc
133 Hamilton St New Haven 5 Conn 8-14-16

RME Div
Electro Voice Ins
Buchanan Mich 1-6-7-15

Royal Communication Systems
11462 Euclid Ave Cleveland 6 Ohio 14-15-29

RS Electronics Corp
P O Box 368 Sta A Palo Alto Calif 14-18-31

Scantlin Electronics Inc
11624 W Pico Blvd Los Angeles 64 Calif 20

Scientific-Atlanta Inc
2162 Piedmont Rd N E Atlanta 9 Ga 18

Scott Inc H H
385 Putnam Ave Cambridge 39 Mass 15

Seeley Electronics
1060 S Lahrea Ave
Los Angeles 18 Calif 7-14-15-19-20-27

Seg Electronics Co Inc
1778 Flatbush Ave Brooklyn 10 NY 12-19

Servo Corp of America
2020 Jericho Turnpike
New Hyde Park NY 7-15-27-30

Setchell-Carlson Inc
New Brighton St Paul 12 Minn 25

Sonar Radio Corp
3050 W 21 St Brooklyn 24 NY 17

Specific Electronics
1995 N Fair Oaks Ave Pasadena Calif 14-28

Specific Products Co
21051 Costano Woodland Hills Calif 24

Springfield Enterprises
138-17 Springfield Blvd
Springfield Gardens 13 NY 1-3-6-7

Standard Electronics Div Radio Eng'g Labs	
30 S Borden Sta	5-11-13-14-15-
Long Island City NY	18-23-24-26-27
Statistical Instr Co	
330 Haven Ave New York 33 NY	29
Stavid Eng'g Inc	
U S Route 22 Plainfield NJ	18-31
Strelma Inc	
190 Henry St Stamford Conn	11-13-16-21
Stromberg-Carlson Div General Dynamics Corp	
100 Carlson Rd Rochester 8 NY	9-20
Super Electronics Corp	
53 Worth St New York 18 NY	7-8-9
Superex Electronics Corp	
58 Marbledale Rd Tuckahoe NY	10-12
Sylvania Electric Products Co	
Electric Systems Div	
100 First Ave Waltham 54 Mass	18-26-27-31
Taffet Radio & TV Co	
27-05 Brooklyn-Queens Expressway W	
Woodside 77 NY	7-10-15-17
Tarzian Inc Sarkis	
415 N College Ave Bloomington Ind	18
Technical Material Corp	
700 Fenimore Rd	6-7-8-11-13-15-
Mamaroneck NY	14-16-24-28
Technical Oil Tool Corp	
1057 N La Brea Los Angeles 38 Calif	31
Tecltron Electronics Ltd	
129 Park Ave Park Crest NJ	15
Telectro Industries Corp	
35-18 37 St	3-7-8-9-14-16-
Long Island City 1 NY	17-18-24-31
Tele-Dynamics Inc	
51st & Parkside Ave Philadelphia 4 Pa	15-18
Telemarine Communications Co	
140 W Broadway	7-8-12-14-
New York 18 NY	15-17-19-26-27
Telephonics Corp	
Park Ave	7-8-9-10-14-15-
Huntington LI NY	18-26-27-30
Telerad Mfg Corp	
Route 69 Flemington NJ	18-31
Telerad Mfg Corp	
1440 Broadway New York 18 NY	18-31
Temco Aircraft Corp	
P O Box 6191 Dallas 2 Texas	7-25-27-30
Topp Industries Inc	
8907 Wilshire Blvd	
Beverly Hills Calif	7-9-14-24-26-27
Transitron Inc	
186 Granite St Manchester NH	14-19-28
Ultra-Violet Products Inc	
5114 Walnut Grove Ave	
San Gabriel Calif	32
U S Instrument Corp	
P O Box 1191 Charlotteville Va	17
Valsandy Electronics Corp	
61-35 165 St Flushing 68 NY	10
Van Norman Industries Inc Electronics Div	
186 Granite St Manchester NH	7-15
Varo Mfg Co	
2201 Walnut St Garland Texas	14-22-27
Vector Inc	
1611 Trapelo Rd Waltham 54 Mass	31
Virginia Electronics Co	
River Rd & B & O R R	
Washington 16 DC	7-10-12-14-16-17
Waldorf Instrument Co Div F C Huyck & Sons	
Park Ave Huntington Station NY	31
Warren Corp J C	
21 Hance Ave Freeport NY	10-15-19-22-23
Warren Mfg Co	
Newtown Rd Littleton Mass	11-13-16
Westbury Electronics Inc	
300 Shames Dr Westbury NY	10
Westinghouse Electric Corp	
P O Box 868	
Pittsburgh 30 Pa	11-14-15-16-18-24-26
Westrex Corp	
111 8 Ave New York 11 NY	7-13-14-16-24
Weymouth Instrument Co	
1440 Commercial St E Weymouth 89 Mass	18
Young Spring & Wire Co Ganset Div	
801 S Main St	1-2-6-7-8-9-10-12-
Burbank Calif	14-15-17-19-26-27
Z & W Mfg Corp	
30240 Lakeland Blvd Wickliffe Ohio	29

72—RECEIVERS, HOME

Converters, FM	1
Converters, UHF-TV	2
Preselectors	3
Receivers, AM	4
Receivers, AM-FM	5
Receivers, automobile	6
Receivers, battery portable	7
Receivers, binocular	8
Receivers, coin operated	9
Receivers, color TV	10
Receivers, farm radio	11
Receivers, FM	12
Receivers, phono-radio comb.	13
Receivers, recorder-radio comb.	14
Receivers, short wave, fixed	15
Receivers, short wave, portable	16
Receivers, transistor	17
Receivers, TV	18
Receivers, TV combination	19
Receivers, UHF	20

Receivers, VHF 21

Television boosters 22

Wave traps 23

Admiral Corp	
3800 W Cortland St	4-5-10-11-12-13-14-
Chicago 47 Ill	17-18-19-20-21
Aerophysical Dev Corp Sub Curtiss-Wright	
Corp P O Box 689	
Santa Barbara Calif	12-15-16-17-20-21
Airtronix Development Corp	
4902 Church Ave Brooklyn 3 NY	4-18
American Communications Corp	
280 Broadway New York 17 NY	9
American Gelson Electronics Inc	
312 7th Ave New York 1 NY	5-16
American Machine & Foundry Co	
Electronics Div 1085 Commonwealth Ave	
Boston 15 Mass	17
American Machine & Foundry Co	
Defense Products Group 1101 N Royal St	
Alexandria Va	17
American Television & Radio Co	
300 E 4 St St Paul 1 Minn	18
Andrea Radio Corp	
27-01 Bridge Plaza N	
Long Island City 1 NY	5-13-16-18-19
A R F Products Inc	
P O Box 67 Rantou N M	4-5-13-18
A R F Electronics Inc	
1501 E 6th St N Little Rock Ark	5
Arvin Industries Inc	
Columbus Ind	4-5
Audicon Electronics Inc	
216 Lyon St	
Paterson 4 NJ	4-6-6-7-9-12-13-14-17
Automatic Radio Mfg Co	
122 Brookline Ave	
Roston 15 Mass	4-6-7-11-12-17
Barker & Williamson Inc	
Canal & Beaver Sta Bristol Pa	15
Barlowe Electronics	
392 Wantagh Ave Bethpage NY	4-17
Benfit Aviation Corp	
1104 Fisher Bldg Detroit 2 Mich	4-5-6
Bergen Labs	
247 Crooks Ave Clifton NJ	3
Rosen-Presto Div Siegler Corp	
P O Box 600 Paramus NJ	4-5-8-12
Brooks Radio & TV Corp	
84 Vesey St New York 7 NY	13
Browning Labs Inc	
750 Main St Winchester Mass	4-5-8-12-15
Brvg Inc	
Butler Pa	10-18-22
R-W Mfg Inc Phillips Radio Div	
721 N Webster St Kokomo Ind	4-13
Canadian Aviation Electronics Ltd	
6214 Cote de Liesse Rd	
St Laurent Quebec Canada	18
Clegg Labs Div Clegg Inc	
Ridgedale Ave Morristown NJ	15
Community Eng'g Corp	
Box 824 State College Pa	22
Conrac Inc	
19217 E Foothill Blvd Glendora Calif	18-21
Creative Electronics Corp	
94 Lincoln Ave Stamford Conn	1-4
Davis & Co J W	
9212 Denton Dr Dallas 35 Texas	4-11-17
Defiance Eng'g & Microwave Corp	
Beverly Airport Beverly Mass	23
Deleo Radio Div GMC	
700 Firmin St Kokomo Ind	6
Designers For Industry	
4241 Fulton Pkwy	2-4-5-12-13-17-
Cleveland 9 Ohio	18-19-20-21
Dewald Radio Mfg Corp	
Div United Scientific Labs Inc	
35-15 37 Ave Long Island 1 NY	4-5-12-17
DuMont Labs A R	
750 Bloomfield Ave Clifton NJ	4-5-10
Dyna-Empire Inc	
1075 Stewart Ave Garden City LI NY	17
Dynamic Electronics Inc	
73-29 Woodhaven Blvd	
Forest Hills NY	9-12-13-14
Eckstein Radio & TV Co	
2601 E Franklin Ave	
Minneapolis 6 Minn	4-6-7-17
Eldico Electronics	
29-01 Bayden Ave	
Long Island 1 NY	4-6-15-16-21
Electronics Inc	
39 York Rd Willow Grove Pa	4
Electro-Voice Inc	
Cecil & Carrol Sts Buchanan Mich	3-5
Elk Electronics Labs Inc	
333 W 52 St New York 19 NY	5-17-20-21
Emerson Radio & Phonograph Corp	
14 & Coles Sts	4-5-7-10-12-13-
Jersey City 2 NJ	17-18-19-20-21
Espey Mfg Co	
Congress & Ballston Ave	
Saratoga Springs NY	45
Fanon Electric Co	
90 Berriman St	
Brooklyn 8 NY	4-5-13-14-17
Fisher Radio Corp	
21-21 44 Dr	
Long Island City 1 NY	4-5-12-13-14
Flush Wall Radio Co	
1012 Cleveland St Clearwater Fla	4
Granco Products Inc	
36-07 20 Ave Long Island City NY	2-5-12-13
Guild Radio & TV Co	
460 N Eucalyptus Ave Inglewood Calif	13
Hal-Hen Co	
36-14 11 St Long Island City 6 NY	17

Hammarlund Mfg Co	
460 W 34 St New York 1 NY	4-15
Harman-Kardon Inc	
520 Main St Westbury LI NY	5-12-13
Heath Co	
305 Territorial Rd	
Benton Harbor Mich	4-5-7-12-15-17
Hoffman Electronics Corp	
3761 S Hill St	4-5-7-10-13-
Los Angeles 7 Calif	17-18-20-21
Hotpoint Co Div General Electric Co	
5600 Taylor St Chicago 44 Ill	18
Idea Inc	
7900 Pendleton Pk	
Indianapolis 26 Ind	1-2-4-7-17-22
Industrial Development Eng'g Assoc	
7900 Pendleton Pk	
Indianapolis Ind	2-4-7-17-22
Industrial Radio Corp	
428 N Parkside Ave Chicago 43 Ill	21
Insul-8-Electronics	
1359 Industrial Rd San Carlos Calif	18
Intentional Research Associates	
2221 Warwick Ave	
Santa Monica Calif	4-7-17-22
International Telemeter Corp	
2000 Stoner Ave Los Angeles 25 Calif	22
Jerrold Electronics Corp	
23 & Chestnut Sta Philadelphia 3 Pa	2-22
Kent VV Inc	
505 Driggs Ave	
Brooklyn 11 NY	4-5-10-13-18-19
Kintel	
5725 Kearny Villa Rd San Diego 12 Calif	18
Kuss Industries Inc	
Tarony & Lewis Sts	
Philadelphia 24 Pa	4-6-12-17
Linar Inc	
4101 San Fernando Rd Glendale 4 Calif	3
Liton Industries of Calif	
336 N Foothill Rd Beverly Hills Calif	15
Madison Fielding Corp	
863 Madison St Brooklyn 21 NY	2-4-5
Magnavox Corp	
2131 Bueter Rd	
Ft Wayne 4 Ind	4-5-7-10-13-14-17-18-19
Majestic Int'l Sales Corp	
743 N La Salle	
Chicago 10 Ill	5-7-13-14-17-19-21
Merit Coil & Transformer Corp	
4427 N Clark St Chicago 40 Ill	23
Michigan Electronics Inc	
854 N Rockwell St Chicago 22 Ill	14
Microphase Corp	
Box 1166 Greenwich Conn	3
Miller Co J W	
5917 S Main St Los Angeles 3 Calif	23
Miller Electronics	
2840 Naomi St Burbank Calif	4-5-9
National Aircraft Corp Electronics Div	
3411 Tulare Ave Burbank Calif	17
National Company Inc	
61 Sherman St Malden 48 Mass	4-15-16
Newcomb Audio Products Co	
6-2 Lexington Ave	
Hollywood 89 Calif	4-6-12
Olympic Radio & TV	
34-01 38 Ave	4-5-7-10-12-13-
Long Island City 1 NY	14-18-19-21
Packard Bell Electronics Corp	
12333 W Olympic Blvd	
Los Angeles 64 Calif	4-5-7-10-12-13-17-18-19
Pearce Simpson Inc	
3023 Coral Way Miami 34 Fla	15
Permoflux Products Co	
4101 San Fernando Rd Glendale 4 Calif	3
Phileo Corp	
Tioga & C Sts Philadelphia 24 Pa	4-5-12
Pilot Radio Corp	
37-96 36 St Long Island City 1 NY	5-12-13
Precise Development Corp	
2 Neil Ct Oceanside NY	3
Precision Electronics Inc	
9101 King St Franklin Pk Ill	5-8-23
Precision Radiation Instruments Inc	
Radio Craftman Div 4223 W Jefferson Blvd	
Los Angeles Calif	4-5-12-13
Pye Telecommunications Ltd	
Newmarket Rd Cambridge England	6-17
Radio Eng'g Labs	
29-01 Burden Ave	
Long Island City 1 NY	3-12
Radio Kits Inc	
120 Cedar St	4-5-7-8-15-16-
New York 6 NY	17-18-19-20-21
Rauland-Borg Corp	
8535 W Addison St Chicago 18 Ill	4-5
Regency Div Idea Inc	
7900 Pendleton Pike	
Indianapolis 26 Ind	2-4-7-17-22
Rhein Sound Systems Inc	
132 Hamilton St	
New Haven 5 Conn	4-5-21
RME Div Electro Voice Inc	
Buchanan Mich	2-22
Roberts Mfg Co	
E Shaffer Cleburne Texas	4-5-12-13
RS Electronics Corp	
P O Box 368 Sta A Palo Alto Calif	20-21
Scott Inc H H	
385 Putnam Ave Cambridge 39 Mass	5-8-12
Seely Electronics	
1050 S Labrea Ave	
Los Angeles 18 Calif	4-12-21
Setchell-Carlson Inc	
New Brighton St	
St Paul 12 Minn	18-19-20-21
Simpson Mfg Co Mark	
32-28 49 St Long Island City 3 NY	3
Stromberg-Carlson Div General Dynamics Corp	
100 Carlson Rd Rochester 8 NY	4-5-6

Supertex Electronics Corp
58 Marbledale Rd Tuckahoe NY 4-7-17

Sutton Electronic Co
2415 Nicholsonville Rd Lexington Ky 17

Sylvania Electric Products Inc
Sylvania Home Electronics
700 Elliott St
Batavia NY 4-5-7-10-13-14-17-18-20-21

Taffet Radio & TV Co
27-05 Brooklyn-Queens Expressway W
Woodside 77 NY 7-11-12-16

Tech-Master Corp
75 Front St
Brooklyn 1 NY 4-5-8-18-20-21

Technical Material Corp
700 Fenimore Rd Mamaroneck NY 15

Techtron Electronics Ltd
128 Park Ave Park Crest NJ 12-13-14

Telechrome Mfg Corp
28 Ranick Dr Amityville LI NY 10

Teletro Industries Corp
35-18 37 St Long Island City 1 NY 8-14

Telematic Industries Inc
16 Howard Ave Brooklyn 7 NY 2-4-5-12-20

Teletone Co of America
1688 Webster Ave
New York 57 NY 4-5-12-13

Transaval Eng'g Corp
10401 W Jefferson Blvd Culver City Calif 17

Transvision Inc
460 North Ave
New Rochelle NY 5-18-19-20-21

Trans-Lex Radio Corp
571 W Jackson Blvd Chicago 6 Ill 4-7-19

Trutone Electronics Inc
6912 Santa Monica Blvd
Los Angeles 38 Calif 4-5-12

TV Hardware Mfg Co Div Textron Inc
409 S Wyman St Rockford Ill 22

Valandy Electronics Corp
61-35 166 St Flushing 68 NY 4-17

Vidaire Electronics Mfg Corp
44 Church St Baldwin NJ 23

Videon Electronic Corp
802 E Michigan St Indianapolis Ind 2-22

Warren Corp J W
21 Hanne A Freeport NY 14

Warwick Mfg Corp
7300 N Lehigh Ave
Chicago 31 Ill 4-5-6-7-10-13-14-16-17-18-19

Wells-Gardner & Co
2701 N Kildare Ave
Chicago 39 Ill 4-5-10-11-12-13-14-18-19

Westbury Electronics Inc
300 Shames Dr
Westbury NY 7-22

Westinghouse Electric Corp
P O Box 868
Pittsburgh 30 Pa 4-5-7-10-12-13-15-17-18-19

Young Spring & Wire Co Ganset Div
801 S Main St Burbank Calif 15-20-21

Zenith Radio Corp
6001 Dickens Ave
Chicago 39 Ill 4-5-7-13-16-18

Barker & Williamson Inc
Canal & Beaver Sts Bristol Pa 10

Barrett Electronics Corp
630 Dundee Rd Northbrook Ill 3-8

Bassett Inc Rex
1314 N E 17 Ct Ft Lauderdale Fla 3

Bell Aircraft Corp
P O Box 1 Buffalo 5 NY 3

Bendix Aviation Corp Bendix Radio Div
Baltimore 4 Md 1-2-3-4-8

Bendix Aviation Corp
1104 Fisher Bldg Detroit 2 Mich 1-2-3-4-3

Browning Labs Inc
750 Main St Winchester Mass 11

Canadian Aviation Electronics Ltd
6214 Cote de Liesse Rd
St Laurent Quebec Canada 3-7

CGS Laboratories Inc
Routes 7 & 35 Ridgefield Conn 12

Collins Radio Co
855 35 St N E Cedar Rapids Iowa 1-2-3-4-5-9

Colorado Research Corp
4897 E Evans Ave Denver 22 Colo 1-2-3

Conn Telephone & Electric Corp
70 Britannia St Meriden Conn 10

Cook Co Frank H
36 S Santa Fe Dr Denver 23 Colo 3

Corbin Corp
5419 55th Place Riverdale Md 1-3-4-5

Craig System Inc
90 Holten St Danvers Mass 1-3-4

Crisby Labs Inc
Box 233 Robbins Lane Hicksville NY 11

Daven Co
Route 10 Livingston NJ 1-2-3-4-6-7-8-9

Daystrom-Weston Industries
Div Daystrom Inc
753 Main St Poughkeepsie NY 3

Dayton Aviation Radio & Equipment Corp
P O Box 254 Troy Ohio 1-2-3-4-9

Designers for Industry
4241 Fulton Pkwy Cleveland 9 Ohio 11-12

Edo Corp
13-10 111 St College Point 56 L I NY 6

Electrical Communications Inc
766 Clementina St San Francisco 3 Calif 7-8

Electronic Communications Inc
1501 72 St St Petersburg Fla 1-2-3-5-6-7-9-11

Elk Electronics Labs Inc
335 W 52 St New York 19 NY 3-6-8

Ellison Draft Gage Co
518 W Monroe St Chicago 6 Ill 10

Endeco Eng'g Development Co of Los Angeles
149-50 Wilmington Blvd Wilmington Calif 1

Farnsworth Electronics Co Div I T & T
7702 E Pontiac St Ft Wayne Ind 2-5

Green Industries Inc Electronic Products Div
9701 Reading Rd Cincinnati 15 Ohio 3

Gulton Industries Inc
212 Durham Ave Metuchen NJ 8

Gyro Electronics Co
325 Canal St New York 13 NY 7

Haller Raymond & Brown
Cleveland Ill
State College Pa 1-2-3-4-5-8-9-11-12

Hall-Scott Inc
2950 N Ontario St Burbank Calif 3

Hammarlund Mfg Co
460 W 34 St New York 1 NY 3

Hazeltine Electronics Div Hazeltine Corp
33-25 Little Neck Pkwy
Little Neck 62 NY 2-3-9

Heath Co
305 Territorial Rd Renton Harbor Mich 1

Hoffman Electronics Corp
3761 S Hill St Los Angeles 7 Calif 1-5-4-5

Hugan Labs Inc
155 Perry St New York 14 NY 11

Industrial Radio Corp
428 N Parkside Ave Chicago 44 Ill 3

Industrial TV Inc
389 Lexington Ave Clifton NJ 3-6

Instrument Corp of Fla
P O Box 1225 Bldg 14 Melbourne Fla 1

I.T.E. Circuit Breaker Co
Special Products Div
601 E Erie Ave Philadelphia 34 Pa 1-2-3

Jarvis Electronics Corp
1140 Cherry St Winnetka Ill 1

Jefferson Inc Ray
40 E Merrick Rd Freeport NY 1

Kaar Eng'g Corp
2995 Middlefield Rd Palo Alto Calif 1-10

Laboratory for Electronics Inc
75 Pitta St Boston 14 Mass 1

Land-Air Inc Instrument & Electronic Div
2133 Adams Ave San Leandro Calif
Lane Electronics Mfg Corp
2264 Atoll Ave N Hollywood Calif 1

Lear Inc
3171 S Bundy Dr Santa Monica Calif 1-5-4-7

Lear Inc
110 Ionia Ave N W
Grand Rapids 2 Mich 1-2-4-7-9

Lindly & Co
248 Herricks Rd Minnola N Y 5

Litton Industries of Calif
336 N Foothill Rd
Beverly Hills Calif 1-2-3-4-5

Magnavox Corp
2131 Bueter Rd Ft Wayne 4 Ind
Magnavox Co
2131 Bueter Rd Ft Wayne Ind 1-2-4-6-8

Measurement Eng'g Ltd
232 John St Arnprior Ontario Can 3

Michigan Electronics Inc
854 N Rockwell St Chicago 22 Ill 10

Microwave Eng'g Labs Inc
948 Industrial Ave Palo Alto Calif 1-4-12

Mitchell Industries Inc
Municipal A P P O Box 17
Mineral Wells Texas 9

Model Eng'g & Mfg Inc
50 Frederick St Huntington Ind 3

Muirhead Instruments Inc
677 5 Ave New York 22 NY 11

National Aeronautical Corp
Commerce Dr Ft Washington Penna 9

National Company Inc
61 Sherman St Malden 48 Mass 1-3

Nevada Air Products Co
P O Box 2472 Reno Nev 1-5

Nuclear-Electronics Corp
2632 W Cumberland St Philadelphia 32 Pa 3

Olympic Radio & TV
34-01 38 Ave Long Island City 1 NY 1

Packard Bell Electronics Corp
12333 W Olympic Blvd
Los Angeles 64 Calif 1-2-3-5-8

Phileo Corp
Tioga & C Sts Philadelphia 24 Pa 6-9

Photobol Co
43 Vesey St New York 7 NY 10

Pulsarad Electronics Corp
43-20 34 St Long Island City 1 NY 1-2-3-6-12

Pure Wireless Labs Inc
25 Prospect Pl W Newton 66 Mass 11

Pye Telecommunications Ltd
Newmarket Rd Cambridge England 1-4-7

Q O S Corp
Bronx Blvd at 216 St New York 67 NY 5

Radio City Products Co
Centre & Glendale Sts
Easton Pa 1-2-3-4-6-7-10

Radio Receptor Co/Div GIC
240 Wythe Ave Brooklyn 11 NY 8

Raytheon Mfg Co
100 River St Waltham 54 Mass 1

Resdel Eng'g Corp
330 S Fair Oaks Ave Pasadena Calif 3

Rhein Sound Systems Inc
133 Hamilton St New Haven 5 Conn 3

RS Electronics Corp
P O Box 368 Sta A Palo Alto Calif 3

Schirmer-National Alarm Co
20 Westside Ave Bergenfield NJ 10

Seeley Electronics
1060 S Labrea Ave
Los Angeles 19 Calif 3-8-10

Seismograph Service Corp
6200 K 41 St Tulsa 1 Okla 2-3

Shand & Jurs Co
2800 8th St Berkeley 10 Calif 10

Skintron Electronics & TV Corp
180 Varick St New York 14 NY 7-8-10-11

Specific Electronics
1995 N Fair Oaks Ave Pasadena Calif 3

Sperry Gyroscopic Co
Air Arm Div Great Neck NY 1-6

Sperry Gyroscopic Co Marine Div
Roosevelt Field Mineola NY 6

Statistical Instr Co
330 Haven Ave New York 33 NY 7-12

Stewart Warner Electronics Div
1300 N Kostner Ave Chicago 51 Ill 11

Super Electronics Corp
53 Worth St New York 13 NY 1-6

Sylvania Electric Products Co
Electric Systems Div
100 First Ave Waltham 54 Mass 1-2

Technical Material Corp
700 Fenimore Rd Mamaroneck NY 3-7-10-11

Teletro Industries Corp
35-18 37 St
Long Island City 1 NY 1-2-3-4-7-9-10

Telmarine Communications Co
140 W Broadway New York 13 NY 1-3-5

Temco Aircraft Corp
P O Box 6191 Dallas 2 Texas 1-2

Texas Instruments Inc
6000 Lemmon Ave Dallas 9 Texas 5

Times Facsimile Corp
540 W 58 St New York 19 NY 11

Topp Industries Inc
8007 Wilshire Blvd
Beverly Hills Calif 1-4-9

Varo Mfg Co
2201 Walnut St Garland Texas 3-7-8

Vectron Inc
1811 Trapelo Rd Waltham 54 Mass 2-6

Virginia Electronics Co
River Rd & B & O RR Washington 16 DC 3-7

Voron & Co George
85 N 19 St Philadelphia 30 Pa 6-9

Westinghouse Electric Co Div Air Arm Div
P O Box 746 Friendship Intl A P
Baltimore Md 5

Westinghouse Electric Corp
P O Box 868 Pittsburgh 30 Pa 3

73—RECEIVERS—NAVIGATION & SPECIAL PURPOSE

NAVIGATION	
Receivers, direction finding	1
Receivers, distance measuring	2
Receivers, fixed frequency	3
Receivers, glide slope	4
Receivers, infra-red	5
Receivers, loran	6
Receivers, remote control	7
Receivers, selective signalling	8
Receivers, VHF omnirange	9
SPECIAL PURPOSE	
Receivers, automatic alarm	10
Receivers, facsimile	11
Receivers, panoramic	12

Acme Teterbronx Div Nea Service
1200 W 3 St Cleveland 13 Ohio 11

Aerophysics Dev Corp Sub Curtiss-Wright Corp
P O Box 689 Santa Barbara Calif 2-7-11-12

Airborne Electronics Co
6813 Troost Ave N Hollywood Calif 1

Aircraft Radio Corp
Bouillon NJ 1-9

American Machine & Foundry Co
Electronics Div
1045 Commonwealth Ave
Boston 15 Mass 2-3-10

American Machine & Foundry Co
Defense Products Group
1101 N Royal St Alexandria Va 1-2-3-6-8

Applied Electronics Co
213 E Grand Ave S San Francisco Calif 1-3

Avco Mfg Corp Croaley Div
1329 Arlington St Cincinnati 25 Ohio 1-4

Avion Div ACF Industries Inc
11 Park Pl Paramus NJ 8

Rabcock Radio Eng'g Inc
7942 Woodley Ave Van Nuys Calif 7

74—RECORDERS, AUDIO

Duplicators, magnetic tape	1
Recorders, binaural tape	2
Recorders, dictation	3
Recorders, disc	4
Recorders, magnetic disc	5
Recorders, magnetic film stripe	6
Recorders, magnetic tape	7
Recorders, magnetic wire	8
Recorders, miniature tape wire	9
Recorders, photographic film	
sound track	10
Recorders, portable	11

Hutley Meter Co 1050 Ivanhoe Rd Cleveland 10 Ohio	10-16-18-20	Fielden Instrument Div Robertshaw- Fullon Controls Co 2920 N 4 St Philadelphia 33 Pa	8-10-17-20-27	Mandrel Industrial Instruments Div Mandrel Industries Inc 5124 Glenmont Dr Houston Texas	1-3-9-11-12-14-15- 16-17-18-23-25-28
Baird-Atomic Inc 23 University Rd Cambridge 38 Mass	3-17	Fischer & Porter Co 478 Westminster Rd Hartford Pa	3-14-20-24	Manning Maxwell & Moore Inc Industrial Controls Div Shelter Rock Lane Danbury Conn	13-14-17-20-24
Haldwin-Lima-Hamilton Corp Electronics & Instrumentation Div 42 Fourth Ave Waltham 54 Mass	14-17-22-25-27	Flight Research Inc P O Box 1-F Richmond 1 Va	3-5	Manning Maxwell & Moore Inc 250 E Main St Stratford Conn	14
Harber-Culman Co 1300 Rock St Rockford Ill	10-14-16-16-17-20	Foxboro Co Neponset Ave Foxboro Mass	8-10-12-14-15-18-19-20-22-24-27	Massa Laboratories Inc 5 Fottler Rd Hingham Mass	3-9
Harker & Williamson Inc Canal & Beaver Sts Bristol Pa	7-19	Fredericks Co Geo E Bethayres Pa	14-24	Maurer Inc J A 37-01 31 St Long Island City 1 NY	3-5-9
Harnes Development Co 213 W Baltimore Ave Lansdowne Pa	15-17	Friez Instrument Div Hendix Aviation Corp 1400 Taylor Ave Baltimore 4 Md	12-20	Medcraft Electronic Corp 125 Great East Neck Rd Babylon NY	9-14
Heckman Instruments Inc Data & Control Systems Scientific Instrument Div 325 N Muller Ave Anaheim Calif	3	Furzuhill Labs Ltd 57 Clarendon Rd Watford England	21	Michigan Electronics Inc 854 N Rockwell St Chicago 22 Ill	12
Hemis Aviation Corp Friez Instrument Div 1400 Taylor Ave Baltimore 4 Md	20	General Electric Co Apparatus Sls Div 1 River Rd Schenectady 5 NY	1-10-13-14-15-16- 17-18-20-24-25	Mid-Century Instrument Corp 611 Broadway New York 12 NY	9
Hendix Aviation Corp 1104 Fisher Bldg Detroit 2 Mich	18	General Kinetics Inc 555 23 St S Arlington 2 Va	3	Midwestern Instruments P O Box 7186 Tulsa Okla	7-9
Henson-Lehner Corp 11930 W Olympic Blvd Los Angeles 64 Calif	5-28	General Precision Lab Inc 63 Bedford Rd Pleasantville NY	3	Milca Reproducer Co 812 Broadway New York 3 NY	5-12
Heryen Labs 247 Crooks Ave Clifton NJ	22-23	General Radio Co 275 Massachusetts Ave Cambridge 39 Mass	3	Milgo Electronic Corp 7601 N W 37 Ave Miami 47 Fla	3-28
Berndt-Hach Inc Auricon Div 6900 Romaine Ave Hollywood 38 Calif	3-5-9	General Scientific Equipment Co 7516 Limekin Pike Phila 50 Pa	20	Minneapolis Honeywell Heiland Div 5200 E Evans Ave Denver 22 Colo	3-5-7-9-12-17- 20-21-22-23-25
Huehme Inc H O 915 Broadway New York 10 NY	2-19	Geotechnical Corp 3712 Huggar Dr Dallas 9 Texas	3-9-18-22-25	Minn-Honeywell Regulator Co Davies Labs Div 10721 Hanna St Beltsville Md	3
Uhrland Co P O Box 1790 Eel Waterbury Conn	7-10-11-12-13-14-15- 16-17-18-20-21-24-28	Gilmer Industries Inc 6713 Euclid Ave Cleveland 3 Ohio	3-14-15-17-20-21-22-27-28	Minn-Honeywell Regulator Co Instruments Div Wayne & Windrim Aves Philadelphia 44 Pa	7-10-15-20-24-28
Brooke Knig'z Co 4517 Wayne Ave Philadelphia 44 Pa	16	Good Electronics Corp 17-19 Brooks St Newton 58 Mass	17-20	Missileconics Inc P O Box 115 Melbourne Fla	18-21
Brush Instruments 3405 Perkins Ave Cleveland 14 Ohio	3-7-9-12-14-17- 18-20-22-23-25	Gordon Enterprises 5362 N Cahuenga Blvd N Hollywood Calif	5-9	Moeller Instrument Co 152-02 89 Ave Richmond Hill 18 NY	20-21
Brye Inc Butler Pa	5	Gorrell & Gorrell 336 Old Hook Rd Westwood NJ	9	Mungham Co J J 500 Alcott St Denver 4 Colo	7-13-20-21-24
Burke & James Inc 321 S Wabash Ave Chicago 4 Ill	5-9	Graphic Recorders Inc 14 Edgewood Ave Trumbull Conn	28	Muirhead Instruments Co 577 E Ave New York 22 NY	4
Buss-Clement-Doughten & Associates 201 B Studio Hill Chester Springs Pa	5-12	Gray Research & Development Co Hilliard St Manchester Conn	4	Niagara Electron Labs P O Box 128 Main St Andover NY	27
Butcher Co L H 16228 E Olympic Blvd Los Angeles Calif	10-20	Green Instruments Inc 1191 Bedford Ave Brooklyn 16 NY	20	Non-Linear Systems Inc Del Mar Airport Del Mar Calif	17-20
Calif Technical Industries Div Textron Inc 1421 Old County Rd Belmont 10 Calif	1	Gulton Industries Inc 212 Durham Ave Metuchen NJ	2-3-14-18-20-25	North American Instruments Co 2420 N Lake St Altadena Calif	3-12-14
Cambridge Instrument Co Grand Central Terminal New York 17 NY	10-25	Hagan Chemicals & Controls Inc 343 4 Ave Huntsburgh 30 Pa	10-14-15-16-18-20-24	Northam Electronics Inc 2420 N Lake Ave Altadena Calif	3-12
Canadian Applied Research Ltd 1500 O'Connor Dr Toronto 16 Can	5	Haller Raymond & Brown Circleville Rd State College Pa	3-4-26-28	Offner Electronics Inc 5320 N Kedzie Ave Chicago 25 Ill	3-9-12-14-17- 18-20-21-23-27
Centronix Inc 34 Oleander St Cocoa Fla	3-7-18-21	Hanson-Gorrell-Brian 85 Hazel St Glen Cove NY	3	Optron Corp 3526 State St Santa Barbara Calif	25
Century Electronics Co 34 Oleander St Cocoa Fla	18-21	Hastings-Raydist Inc Newcomb Ave Hampton Va	24	Packard Bell Electronics Corp 12333 W Olympic Blvd Los Angeles 64 Calif	18
Century Electronics & Instruments Inc 5133 N University P O Box 6216 Pine Sta Tulsa 10 Okla	9	Hathaway Instrument Div Hamilton Watch Co 5900 E Jewell Ave Denver 22 Colo	9-17	Par Products Corp 602 Colorado Ave Santa Monica Calif	3
Chicago Electronic Labs 1222 W Madison St Chicago 7 Ill	14-17-20-21-23	Hewlett-Packard Co 275 Page Mill Rd Palo Alto Calif	3	Partlow Corp 211 Camplyn Rd New Hartford NY	20
Cincinnati Time Recorder Co 1733 Central Ave Cincinnati 14 Ohio	18-21	Hickock Electrical Instrument Co 1514 Dupont Ave Cleveland 8 Ohio	9	Phoenix Precision Instrument Co 3803 N B St Philadelphia 40 Pa	15-16
Cinema-Television Ltd Worsley Bridge Rd Lower Sydenham London SE 26 England	5-7	Hogan Labs Inc 155 Perry St New York 14 NY	3-4-9-11-18	Photron Instrument Co 6516 Detroit Ave Cleveland 2 Ohio	9-12-17
Consolidated Avionics Corp 800 Shames Dr Westbury NY	6-9-18	Impress-O-Graph Corp 1900 Euclid Ave Cleveland 15 Ohio	12-25	Potter Instrument Co Sunnyvale Blvd Plainview NY	3-7
Consolidated Electrodynamics Corp 300 N Sierra Madre Villa Pasadena Calif	3-9-14-17-18-24-25	Indikon Co 76 Coolidge Hill Rd Watertown 72 Mass	14-17-25	Power Regulator Co 3400 Oakton St Skokie Ill	20
Control Data Corp 501 Park Ave Minneapolis 15 Minn	3-18	Industrial Electronic Engineers 3973 Lankershim Blvd N Hollywood Calif	27	Prescott TV Co 7352 Beverly Blvd Los Angeles 36 Calif	26
Dallons Labs 5066 Santa Monica Blvd Los Angeles 29 Calif	20	Industrial Timer Corp 1407 McCarter Hwy Newark 4 NJ	21	Presto Recording Corp Box 500 Paramus NJ	12
Daystrom Weston Industries Div Daystrom Inc 758 Main St Poughkeepsie NY	5	Inaco Co 1407 McCarter Hwy Newark 4 NJ	21	PSC Applied Research Ltd 1500 O'Connor Dr Toronto 16 Canada	23
Daytronic Corp 216 S Main St Dayton 2 Ohio	8-14-17-22-27	Hollis St Groton Mass	25	Pyrometer Instrument Co 92 Portland Ave Bergenfield NJ	20
Defender Instrument & Regulator Co Boody Ill	12-20-24	International Business Machines Corp 590 Madison Ave New York 23 NY	3-21	Radiation Inc P O Box 37 Melbourne Fla	3-18
Designers For Industry 4241 Fulton Pkwy Cleveland 9 Ohio	4-26	International Research & Development Corp P O Box 55 Worthington Ohio	25	Ram Meter Inc 1100 Hilton Rd Ferndale 20 Mich	21-22
Devol Research Co Brookside Dr Greenwich Conn	3	I Q Industries 1714 Westwood Blvd Los Angeles 24 Calif	21	Ramo-Wouldridge Corp Electronic Instrumentation Div P O Box 8405 Denver 10 Colo	18-23
Digitronics Corp Albertson Ave Albertson LI NY	3	Jackson Electronics Inc 23 Woodcrest Rd West Chester Pa	3	Rea Co J B 1723 Cloverfield Blvd Santa Monica Calif	3-18-21
Edin Co 207 Main St Worcester 8 Mass	9-12-17-20-22-23-25	Kane Productions Al 1411 Walnut St Philadelphia 3 Pa	5-26	Reeves Instrument Corp Roosevelt Field Garden City NY	3-9
Electromation Co 1646 18 St Santa Monica Calif	5-12-18	Kay Electric Co 14 Maple Ave Pine Brook NJ	2-3-7-23-25	Rich Electronics Inc 212 NW 8 Ave Miami 36 Fla	1-3-7-13-17-18
Electronic Associates Inc Long Branch NJ	1-3-11-12-15-18-28	Kinevox-Hallen Div Electromation Co 1646 18 St Santa Monica Calif	5-12-18	Sandborn Co 175 Wyman St Waltham 54 Mass	3-7-17-18-20-22
Electronic Control Systems 2231 Barrington Ave Los Angeles 64 Calif	23	Larson Instrument Co 24 Orchard St Tarrytown NY	2-3-12-21	Scientific-Atlanta Inc 2162 Piedmont Rd NE Atlanta 9 Ga	1-28
Electronics Eng Co of Calif 1601 E Chestnut St Santa Ana Calif	25	Leeds & Northrup Co 4970 Stenton Ave Philadelphia 46 Pa	7-10-11-13-14-15-16- 17-18-20-27-28	Scientific Glass Apparatus Co 100 Lakewood Terrace Bloomfield NJ	20
Ellis Associates 67 Lincoln Ave Pelham NY	17	Leupold & Stevens Instruments Inc 4445 NE Glisan St Portland 13 Ore	18-20	Serdes Inc 5200 E 41 St Tulsa 1 Okla	9
Engineering Enterprises Inc 1200 18 St N W Washington 6 DC	3-15	Libscope Inc 508 Western Ave Glendale Calif	3-28	Servo Corp of America 2020 Jericho Turnpike New Hyde Park NY	20
Ercona Corp 551 Fifth Ave New York 17 NY	5	Magnasync Mfg Co 5546 Satsuma Ave N Hollywood Calif	8-5-7-12-21-25-26	Servomechanisms Inc 12500 Aviation Blvd Hawthorne Calif	3
Est Instrument Co 18 S Washington Ave Bergenfield NJ	8-16	Magnaco Inc 2181 Bueter Rd Ft Wayne Ind	2-3	Shand & Jurs Co 2600 8th St Berkeley 10 Calif	3-18
Esterline-Angus Co P O Box 100 Indianapolis 6 Ind	15	Magnecord Div Midwestern Instruments Inc P O Box 7186 Tulsa Okla	3-12	Simplex Time Recorder Co 24 B Lincoln St Gardner Mass	21
Farnworth Electronics Co Div IT&T 3702 E Pontiac St Ft Wayne Ind	2-3	Magnetic Instrument Co 546 Commerce St Thornwood NY	9-15-17-18-20-21-27-28	Skiatron Electronics & TV Corp 180 Varick St New York 14 NY	2-3-4-7-9-11- 18-19-21-23
		Maico Co Inc 21 N 3rd St Minneapolis 1 Minn	3	Sorba & Eng P O Box 1717 Melbourne Fla	3

S O S Cinema Supply Corp	
602 W 52 St New York 19 NY	5
Sound Apparatus Co	
Stirling NJ	1-7-11-12-13-25
Southern Instruments Computer Div	
Frimley Rd Camberley Surrey England	3-4
Southwest Products Inc	
Alamo Downs Rt 4 San Antonio Texas	27
Southwestern Industrial Electronics Co	
2831 Post Oak Rd Houston 19 Texas	9-12
Stancil-Hoffman Corp	
321 N Highland Ave Hollywood 38 Calif	5-12
Standard Instrument Corp	
657 Broadway New York 12 NY	3-16-21
Standard Register Co	
625 Albany St Dayton 1 Ohio	2-3
Stoelting Co C H	
424 N Homan Ave Chicago 24 Ill	11-15
Streeter Amet	
Grays Lake Ill	3-15-18-21-25
Syston Corp	
2055 Concord Blvd Concord Calif	3-7
Taller & Cooper	
75 Front St Brooklyn 1 NY	3-27
Taylor Instruments Companies	
85 Ames St Rochester 1 NY 10-12-14-20-24-27	
Technical Products Co Instrument Div	
6670 Lexington Ave Los Angeles 38 Calif	16
Telechrome Mfg Corp	
28 Ranick Dr Amityville LI NY	5
Telectro Industries Corp	
35-18 37 St Long Island City 1 NY	3-18-26
Temco Aircraft Corp	
P O Box 6191 Dallas 2 Texas	18-26
Texas Instruments Inc	
6000 Lemmon Ave Dallas 9 Texas	3-12-19
Thermo Electric Corp	
109 1/2 St Saddle Brook NJ	20
Thwing Albert Instrument Co	
5351 Pulaski Ave Phila 44 Pa	17-20-22
Times Facsimile Corp	
540 W 84 St New York 19 NY	4
Toledo Scale Co	
1027 Telegraph Rd Toledo Ohio	27
Tri-R Instruments	
24-15 44 Rd Long Island City 1 NY	20
TV Specialty Co	
350 W 31 St New York 1 NY	3-5-12
United Electrodynamics	
1200 S Marengo Ave Pasadena Calif	18-28
U S Taximeter Corp	
516 W 54 St New York 19 NY	5
Varian Associates	
611 Hansen Way Palo Alto Calif	12-15
Victor Adding Machine Co	
3900 N Rockwell St Chicago 18 Ill	3
Waldorf Instrument Co Div F C Huyck & Sons	
Park Ave Huntington Station NY	3-8
Waltham Precision Instrument Co	
221 Crescent St Waltham 54 Mass	21
Wang Labs Inc	
37 Hurley St Cambridge 41 Mass	2-3
Warren Corp J C	
21 Hanse Ave Freeport NY	12-19
Warren Mfg Corp	
Newtown Rd Littleton Mass	2
Warwick Mfg Corp	
7300 N Lehigh Ave Chicago 31 Ill	3-12
Waugh Eng'g Co	
7842 Burnet Ave Van Nuys Calif	7
Weksler Instruments Corp	
135 E Merrick Rd Freeport LI NY	20-24
West Coast Research Corp	
237 1/2 Westwood Blvd	
Los Angeles 64 Calif	20
Westinghouse Electric Corp	
P O Box 868 Pittsburgh 30 Pa	7-12-18
West Instrument Corp	
4363 W Montrose Ave Chicago 41 Ill	20
Weston Electrical Instrument Corp	
614 Frelinghuysen Ave	
Newark 12 NJ	10-14-20-21-24
Westrex Corp	
111 B Ave New York 11 NY	5-12
Westronics Inc	
3805 McCarr Ft Worth Texas	7-12-15-20
Wide Range Recording Corp	
527 N Grand Blvd St Louis 3 Mo	5-12

76—RECORDING ACCESSORIES

Discs, blank	1
Drivers	2
Equalizers	3
Footage counters	4
Heads, cutting	5
Heads, recording	6
Needles, cutting	7
Paper, facsimile recording	8
Pickups, transcription & phonograph	9
Record molding compounds	10
Record preforms	11
Reels	12
Screw feeds	13
Stylus, rotary	14
Tape magazines, continuous	15
Tape, magnetic	16
Tape splicers	17
Tape, splicing	18

Tape threaders 19 Turntables 20 Wire, magnetic 21

Advance Industries Inc	
640 Memorial Dr Cambridge 39 Mass	9
Aerophysics Dev Corp Sub Curtiss-Wright Corp	
P O Box 689 Santa Barbara Calif	3
Aerovox Corp	
740 Belleville Ave New Bedford Mass	3-6
Affton Industries	
406 St Louis Ave	
Valley Park Mo	12-15-16-17-18-19
Alden Electronic & Impulse	
Recording Equip Co	
P O Box 125 Westboro Mass	8
Alifax Paper & Eng Co	
P O Box 125 Westboro Mass	1-8
Allied Recording Products Co	
32-32 Greenpoint Ave	
Long Island City 1 NY	1
Alonpe Products Inc	
163 W 23 St New York 11 NY	17
American Molded Products Co	
2727 W Chicago Ave Chicago 22 Ill	12-15
Ampex Corp	
934 Charter St Redwood City Calif	16
Amplifier Corp of America	
398 Broadway New York 13 NY	15
Applied Magnetics Corp	
Santa Barbara A/P Bldg 304 Goleta Calif	6
Argonne Electronics Mfg Corp	
165-11 South Rd Jamaica 35 NY	9
Atlantic & Pacific Wire & Cable Co	
112-01 Northern Blvd	
E Elmhurst LI NY	21
Audio Devices Inc	
444 Madison Ave New York 22 NY	1-7-12-16
Audio-Master Corp	
17 E 45 St New York 17 NY	16
Boston Woven Hose & Rubber Co	
P O Box 1071 Boston 3 Mass	18
Bram Metallurgical-Chemical Div	
820 65 Ave Philadelphia 26 Pa	21
Bus-Clement-Doughten & Associates	
201 B Studio Hill Chester Springs Pa	3
Caltron Products Co	
3518 W Pico Blvd Los Angeles 19 Calif	1
Camera Equipment Co	
315 W 43rd St New York 36 NY	12-16-17
Canadian Astatic Ltd	
2273 Danforth Ave	
Toronto 13 Ont Canada	3-9
Capitol Transcription Service	
1120-A Conn Ave NW Washington 6 DC	3
Centronix Inc	
34 Oleander St Cocoa Fla	2-8
Chase & Sons	
26 Spruce St N Quincy Mass	18
Cinematic Developments	
2125 32 Ave San Francisco 16 Calif	4
Commercial Radio Sound Corp	
652 1 Ave New York 16 NY	20
Consolidated Electrodynamics Corp	
300 N Sierra Madre Villa Pasadena Calif	6
Couigno Inc	
2107 Ashland Ave Toledo 2 Ohio	15-16-17-18
Crest Electronics Corp	
20450 Old U S 12 Chelsea Mich	6
Dictaphone Corp	
420 Lexington Ave New York 17 NY	12-15-16
Digitronics Corp	
Albertson Ave Albertson LI NY	6
Duotone Co	
Locust St Keyport NJ	1-5-6-7
Dynamu Magnetronics Corp Div Maico Co	
21 N 3 St Minneapolis 1 Minn	6
Electromotion Co	
1646 18 St Santa Monica Calif	17
Electro-Sonic Labs	
35-54 36 St Long Island City 6 NY	9
Electrovox Co	
60 Franklin St E Orange NJ	7
Elkin National Watch Co	
167 National St Elgin Ill	9
Emmett Machine & Mfg	
445 E Turkeyfoot Lake Rd Akron 19 Ohio	4
Ercona Corp	
551 Fifth Ave New York 17 NY	9-17-20
Erie Resistor Corp	
644 W 12 St Erie 6 Pa	9
Fairchild Recording Equipment Co	
10-40 45 Ave	
Long Island City 1 NY	3-5-7-9-20
Felsenthal & Sons Inc G	
3500 N Kedzie Ave Chicago 18 Ill	1
Fen-Tone Corp	
106 5th Ave New York 11 NY	6
Geatronics Corp	
52 Nashua St Woburn Mass	13
General Electric Co	
Specialty Electronic Component Dept	
W Genesee St Auburn NY	9
General Electric Co	
Apparatus Sls Div	
1 River Rd Schenectady 5 NY	8
General Transistor Western Corp	
6110 Venice Blvd Los Angeles 34 Calif	6
Gordon Enterprises	
5362 N Cahuenga Blvd	
N Hollywood Calif	4-12-16-17
Gotham Audio Development Corp	
2 W 46 St New York 38 NY	5-6-20
Gray Research & Development Co	
Hilliard St Manchester Conn	20
Hogan Labs Inc	
155 Perry St New York 14 NY	8
Industrial Accessories Inc	
Line Rd Matawan NJ	18

International Business Machines Corp	
580 Madison Ave New York 23 NY	16
International Resistance Co	
401 N Broad St Philadelphia 6 Pa	3
James International Corp	
855 Ave Of The Americas New York NY 20	
Jensen Industries Inc	
7333 Harrison St Forest Park Ill	7
Kinevox-Hallen Div Electromotion Co	
1646 18 St Santa Monica Calif	17
Kling Metal Spinning & Stamping Co	
245 Centre St New York 13 NY	20
LEE Inc	
625 NY Ave NW Washington 1 DC	6
Librascope Inc Commercial Div	
133 E Santa Anita Ave Burbank Calif	6
Magnasync Mfg Co	
5546 Satsuma Ave N Hollywood Calif	3-4-6-17
Macnecessaries	
Box 6960 Washington 20 DC	17
Maico Co Inc	
21 N 3rd St Minneapolis 1 Minn	6
Marchant Calculators Inc	
1475 Powell St Oakland 8 Calif	16
Maurer Inc J A	
37-01 31 St Long Island City 1 NY	17
Midwestern Instruments	
P O Box 7186 Tulsa Okla	6
Miller Electronics	
2840 Naomi St Burbank Calif	12-11
Minn-Honeywell Regulator Co Davies Labn Div	
10721 Hanna St Beltsville Md	12
Minnesota Mining & Mfg Co	
900 Hush Ave St Paul 6 Minn	12-16-18
Mohawk Business Machines Corp	
944 Halsey St Brooklyn 33 NY	15
Muirhead Instruments Inc	
677 5 Ave New York 22 NY	8
Multicore Solders Ltd	
Maylands Ave Hemel Hempstead	
Hertfordshire England	17
Nader Mfg Co	
2661 S Myrtle Ave Monrovia Calif	4
National Cine Equipment Inc	
209 W 48 St New York 36 NY	4
National-Standard Co	
Niles Michigan	21
Neumade Products Corp	
250 W 57 St New York 19 NY	17
New Jersey Wood Finishing Co	
Amboy Ave Woodbridge NJ	18
Norton Associates Inc	
P O Box 96 Garden City NY	6
Okonite Co	
220 Passaic St Passaic NJ	18
Pacific Transducer Corp	
11836 W Pico Blvd Los Angeles 64 Calif	9
Packard Bell Electronics Corp	
12435 W Olympic Blvd	
Los Angeles 64 Calif	15
Pampa Electronics Corp	
7354 Frankford Ave Philadelphia 36 Pa	6
Paul & Heckman	
1801 W Courtland St Philadelphia 40 Pa	12
Pentron Corp	
777 S Tripp Ave Chicago 24 Ill	4-6
Permo Inc	
6415 N Ravenswood Ave	
Chicago 26 Ill	7-16-21
Permonite Mfg Co	
444 Lake Shore Dr Chicago 11 Ill	1
Pickering & Co Inc	
Sunnyside Blvd Plainview NY	3-9
Potter Instrument Co	
Sunnyside Blvd Plainview NY	5
Presto Recording Corp	
Box 500 Paramus NJ	1-6-7-20
Production Instrument Co	
710 W Jackson Blvd Chicago 6 Ill	4
Pulse Techniques Inc	
1411 Palisade Ave W Englewood NJ	3
Radio Corp of America	
Commercial Electronic Products	
Front & Cooper Sts	
Camden NJ	3-4-9-12-15-16-20
RCA Electron Tube Div	
415 5 St Harrison NJ	16-17
RCA Electric Tube Div	
415 S 5th St Harrison NJ	16-17
Recordisc Corp	
33-01 Far Rockaway Blvd	
Edgemere 91 NY	1-7
Reclon Corp	
5255 Barnett Ave	
Long Island City 4 NY	1-7-16
Reeves Soundcraft Corp	
10 E 52 St New York 22 NY	16-18
Reiter Co F	
3340 Bonnie Hill Dr Hollywood 28 Calif	17
Rek-Kut Co	
89-19 108 St Corona NY	5-20
Reliance Mica Co	
341-39 St Brooklyn 32 NY	1
Robins Industries Corp	
214-26 41 Ave Bayside 61 NY	12-17-18-19
Robinson Recording Labs	
85 S 9 St Philadelphia 7 Pa	20
Rockbar Corp	
650 Halstead Ave Mamaroneck NY	6
Ronette Acoustical Corp	
190 Earle Ave Lynbrook NY	9
Rosco Labs	
29 Moore St Brooklyn 6 NY	17-18
Shelton Bros	
222 Hartrey Ave Evanston Ill	5-6-9
Smith Assoc Inc Rawdon	
1735 20 St N W Washington 9 DC	6
Sonotone Corp	
P O Box 200-Saw Mill River Rd	
Elmsford NY	6

S O S Cinema Supply Corp	
602 W 52 St	
New York 19 NY	5-1-16-17-18
Sound Electronics Labs Div G H Poulsen Co	
1702 Wayne St Toledo Ohio	15
Soundcriber Corp	
8 Middletown Ave New Haven Conn	1
Southwestern Industrial Electronics Co	
2831 Post Oak Rd Houston 19 Texas	2-6-16
Stancil-Hoffman Corp	
921 N Highland Ave Hollywood 38 Calif	3-4-8
Standard Record Mfg Co	
70 N San Gabriel Blvd Pasadena 8 Calif	12
St Cecilia Co	
125 Bergentine Ave Westwood NJ	16
Talking Devices Co	
4447 Irving Park Rd Chicago 41 Ill	5-6-9
Taylorcel Corp	
185 Murray St Rochester 6 NY	12
Technical Oil Tool Corp	
1057 N La Brea Los Angeles 38 Calif	13
Telectro Industries Corp	
35-18 37 St Long Island City 1 NY	8
Times Facsimile Corp	
540 W 58 St New York 19 N Y	8
United Research Lab	
691 Fifth Ave New York 22 NY	18
United Transformer Corp	
150 Varick St New York 13 NY	3
U S Rubber Co	
1230 E Ave New York 20 NY	17-18
Walco Electronics Mfg Co	
100 W Green St Rockford Ill	2
Webur Inc	
6610 Bloomingdale Ave	
Chicago 39 Ill	12-16-21
Webster Electric Co	
1900 Clark St Racine Wis	6
Westrex Corp	
111 E Ave New York 11 NY	5-6-16
Wide Range Recording Corp	
527 N Grand Blvd St Louis 3 Mo	6-16

77—RECTIFIERS

Battery eliminators	1
Inverters	2
Rectifier power units	3
Rectifiers, copper oxide	4
Rectifiers, electronic tube	5
Rectifiers, germanium	6
Rectifiers, mercury arc	7
Rectifiers, metal oxide	8
Rectifiers, metal sulphide	9
Rectifiers, metallic stack	10
Rectifiers, selenium	11
Rectifiers, silicon	12
Rectifiers, titanium	13

Accurate Eng'g Co	
2005 Blue Island Ave	
Chicago 8 Ill	3-5-7-10-11
Adler Electronics Inc	
1 Lefevre Lane New Rochelle NY	2-3
Aerophysics Dev Corp	
Sub Curtiss-Wright Corp	
P O Box 689 Santa Barbara Calif	11-12
Allis Chalmers Mfg Co	
934 S 70th St Milwaukee 1 Wis	6-7-11-12
American Electronic Laboratories	
121 N 7 St Philadelphia 6 Pa	1
American Electronics Inc	
655 W Washington Blvd	
Los Angeles 15 Calif	2
American Elite Inc	
7 Park Ave New York 16 NY	8
Ampex Corp	
3030 Nebraska Ave Santa Monica Calif	2
American Rectifier Corp	
95 Lafayette St	
New York 13 NY	1-2-3-6-8-10-11-12
American Television & Radio Co	
700 E 4 St St Paul 1 Minn	1-2-3
Amp Inc Captron Div	
185 Park Ave Elizabethtown Pa	3
Audicon Electronics Inc	
216 Lyon St Paterson 4 NJ	3-5
Audio Devices Inc	
444 Madison Ave New York 22 NY	12
Auto Test Inc	
600 S Michigan Ave Chicago 5 Ill	1-3
Harry Electronics Corp	
512 Broadway New York NY	11-12
Itogee Electric Mfg Co	
62 Iowa Ave Paterson 3 NJ	2-3-6-10-11-12
Bradley Labs Inc	
168 Columbus Ave	
New Haven Conn	3-4-8-10-11-12
Ristol Co	
P O Box 1790 El Waterbury Conn	2
Rundy Electronics Corp	
171 Fabyan Pl Newark 12 NJ	3
Butcher Co I. H.	
3528 E Olympic Blvd	
Los Angeles Calif	3-6-9-11-12
Chatham Electronics Div Gera Corp	
W Mt Pleasant Ave Livingston NJ	10-11-12
Christie Electric Corp	
3410 W 67 St Los Angeles 43 Calif	1-3
Clark Electronic Labs	
Box 165 Palm Springs Calif	3-5-6-7-11-12
Conant Labs	
6500 O St Lincoln 3 Nebr	4-11
Conn Telephone & Electric Corp	
70 Britannia St Meriden Conn	1

Continental Electric Co Taylor Tubes Inc	
6 N Michigan Ave Chicago 2 Ill	5-7
Central Circuits Inc	
103 Court St Middletown Conn	3-11-12
Control Corp	
718 Central Ave N E Minneapolis 14 Minn	3
Davenport Mfg Co	
1713 N Ashland Ave Chicago 22 Ill	1
Dressen-Harnes Corp	
250 V. edu Ave Pasadena Calif	3
Dresser Electric Co	
942 E Larned Detroit 7 Mich	11
Dunlee Corp	
4558 W Congress St Chicago 24 Ill	5
Dynamics Research Associates Div	
Universal Match Corp P O Box 5841	
Ferguson 21 Mo	2
Ecor Inc Div Jacobs Co	
517 W Walnut St Ogelsby Ill	2-3
Fitel-McCullough Inc	
598 San Mateo Ave San Bruno Calif	5
Electronic Associates Inc	
Long Branch NJ	5
Electronic Communication Equipment Co	
1249 W Loyola Ave Chicago 26 Ill	3
Electronic Devices Inc	
429 12 St Brooklyn 15 NY	3-10-11
Electronic Rectifiers Inc	
2102 Spinn Ave Indianapolis 3 Ind	3-9
Elk Electronics Labs Inc	
333 W 52 St New York 10 NY	3
Fansteel Metallurgical Corp	
2200 Sheridan Rd N Chicago Ill	3-10-11-12
Fox Products Co	
4720 N 18 St Phila 41 Pa	1-3-10-12
Gahagan Inc	
Waterman Ave Esmond 17 RI	6
Gates Electronics Co	
2090 Harnes Ave Bronx 62 NY	1-3-6-10-11-12
General Electric Co Apparatus Sls Div	
1 River Rd Schenectady 5 NY	4-5-6-10-11-12
General Electric Co Power Tube Dept	
Bldg 267 Schenectady 5 NY	5-7
General Electric Co	
Semiconductor Products Dept	
1224 W Genesee St Syracuse NY	6-12
General Electric Co Rectifier Dept	
Mountain View Rd	
Lynchburg Va	1-2-3-4-6-7-10-11-12
General Instrument Corp	
65 Gouverneur St Newark NJ	6-11-12
General Nuclear Corp	
550 S Ave New York 32 NY	1-3-6-10-11-12
General Railway Signal Co	
P O Box 600 Rochester NY	3-4
General Transistor Corp	
81-27 138 Place Jamaica 35 NY	6-12
Gerat & Co Paul E.	
4888 N Clark St Chicago 40 Ill	3-6-11-12
Green Rectifier Co	
1-10 20 St Fairlawn NJ	1-3-6-10-11-12
Gyro Electronics Co	
325 Canal St New York 13 NY	1
Haller Raymond & Brown	
Cireleville Rd State College Pa	2-3
Hanson Van Winkle Munning Co	
Church St Matawan NJ	3-6-11-12
Heath Co	
305 Territorial Rd Benton Harbor Mich	1
Hewson Co	
443 Broad St Newark 2 NJ	3-5
Highland Eng Co	
90 Magnolia St Westbury NY	3-4-5
Hoffman Electronics Corp	
3713 S Hill St Los Angeles 7 Calif	12
Hoffman Semiconductor Div	
Hoffman Electronics Corp	
930 Pitner Ave Evanston Ill	12
Hughes Aircraft Co Semiconductor Div	
Intl Airport Station Los Angeles 45 Calif	12
International Rectifier Corp	
1821 E 4th St	
El Segundo Calif	6-10-11-12
International Resistance Co	
401 N Broad St Philadelphia 8 Pa	11
Intl Tele & Tele Corp Components Div	
100 Kingsland Rd Clifton NJ	11-12
Kemtron Electron Products Inc	
14 Prince Pl Newburyport Mass	6-12
Kinetics Corp	
410 S Cedar St Solomon Beach Calif	2
Kuthe Labs	
730 S 13 St Newark 3 NJ	5
Lawn Electronics Co	
E. Freehold Rd Freehold NJ	2
Lee Electric & Mfg Co	
2806 Clearwater St	
Los Angeles 39 Calif	3-10-11
Leland Electric Co Aircraft Products Plant	
740 F National Rd Vandalia Ohio	2
Leland Inc G. H.	
123 Webster St Dayton 2 Ohio	
Magnan Inc	
P O Box 211 Kearny NJ	3
Macarr Inc	
2543 Boston Rd New York 67 NY	3-5-11-12
Mallory & Co Inc P R	
42 S Gray St Indianapolis 6 Ind	4-9
Mercury Electronic Co	
Box 450 B R Bank NJ	2-4
Microwave Associates Inc	
Burlington Mass	12
Miller Co Sanford	
691 Bedford Ave Brooklyn 6 NY	1-3-11-12
Model Rectifier Corp	
1065 Utica Ave Brooklyn 3 NY	1-3-10
Mohawk Business Machines Corp	
944 Halsey St Brooklyn 33 NY	12
Moloney Electric Co	
6390 Bircher Blvd St Louis 20 Mo	3

Motigraph Inc	
4441 W Lake St Chicago 24 Ill	11
Motoresearch Co	
1600 Junction Ave Racine Wis	3
Motorola Inc Semiconductor Products Div	
5005 E McDowell Rd Phoenix Ariz	12
National Aircraft Corp Electronics Div	
3411 Tulare Ave Burbank Calif	3-6-12
Nje Corp	
345 Carnegie Ave Kenilworth NJ	1-3
Norma Hoffmann Bearings Corp Walker Div	
Hamilton Ave Stamford Conn	1-3-5
Onad Electric Co	
69 Murray St	
New York 7 NY	1-3-4-5-6-7-8-9-10-11-12-13
Pacific Semiconductors Inc	
10451 W Jefferson Blvd	
Culver City Calif	6-12
Perkin Eng'g Corp	
345 Kansas St	
El Segundo Calif	1-2-3-6-10-11-12
Pechele Electronics Inc	
13 Garden St New Rochelle NY	1-3
Philen Corp Accessory Div	
"A" & Allegheny Ave	
Philadelphia 34 Pa	11-12
Plastic Capacitors Inc	
2520 N Glybourn Ave Chicago 14 Ill	3
Power Supplies Inc	
1005 Olive St Highland Ill	3
Precise Measurements Corp	
Rd 1 Millbrook Rd Flemington NJ	3
Pyramid Electric Co	
1445 Hudson Blvd N Bergen NJ	11
RC A Electron Tube Div	
415 S 5 St Harzian NJ	12
RC A Semiconductor & Materials Div	
Somerville NJ	6
Radio Receptor Co	
240 Wythe Ave Brooklyn 11 NY	10-11
Rapid Electric Co	
2881 Middletown Rd Bronx 61 NY	3
Raytheon Mfg Co	
Receiving & Tube Semiconductor Oper	
55 Chapel St Newton 58 Mass	5-6-12
Raytheon Mfg Co Commercial Equip Div	
100 River St Waltham 54 Mass	1
Raytheon Mfg Co	
100 River St Waltham 54 Mass	1
Rectico Inc	
963 Frelinghuysen Ave	
Newark 12 NJ	3-4-6-9-10-11-12
Rectifier Corp	
21-28 45 Rd Long Island City 1 NY	11
Rectifier Eng'g Co	
1808 E 7 St Los Angeles 21 Calif	11
Reliance Electric and Eng'g Co	
24701 Euclid Ave Cleveland 17 Ohio	3-5-7
Resitron Labs Inc	
2908 Nebraska Ave Santa Monica Calif	5
Rho Eng Co	
2242 Sepulveda Blvd Los Angeles Calif	2-3
Richardson-Allen Corp	
116-15 15 Ave College Point 56 NY	1-3
Sanford Miller Co	
691 Bedford Ave Brooklyn NY	1-3-10-11-12
Saratoga Industries	
Congress & Ralston Aves	
Saratoga Springs NY	1-2-3
Schauer Mfg Corp	
4501 Alpine Ave Rossmoyne Ohio	1-3-4-5
Schrack Electrical Sales Corp	
1100 Madison Ave New York 28 NY	3-11
Sel Rex Corp	
75 River Rd	
Nutley 10 NJ	1-3-4-5-6-8-9-10-11-12
Shrader Co F W	
11623 S Broadway Los Angeles 61 Calif	3
Slaughter Co	
Young and College Sta Piqua 9 Ohio	3
Southwestern Industrial Electronics Co	
2831 Post Oak Rd Houston 19 Texas	1
Strong Electric Corp	
87 City Park Ave Toledo 1 Ohio	3-5-11
Syntro Co	
263 Lexington Ave Homer City Pa	3-11
Tarzian Inc Sarkes	
415 N College Ave	
Bloomington Ind	8-10-11-12
Telkor Inc	
Box 186 Elyria Ohio	1-2-3
Texas Instruments Inc	
6000 Lemmon Ave Dallas 9 Texas	12
Thermomen Inc	
375 Fairfield Ave Stamford Conn	12
Transitron Electronic Corp	
168 Albion St Wakefield Mass	6-12
Trans-Sil Corp	
55 Honeck St Englewood NJ	3-10-12
UAC Electronics Div	
Universal Transistor Prods Corp	
30 Broad St Westbury LI NY	1
Union Switch & Signal Div	
1789 1807 Braddock Ave	
Swissvale P O Pittsburgh 8 Penna	4-8
Universal Transistor Products Corp	
36 Sylvester St Westbury LI NY	2-3
U S Dynamics Corp	
1250 Columbus Ave	
Roston 20 Mass	1-2-3-6-12
Vacuum Tube Products Co	
2020 Short St Oceanside Calif	5
Varo Mfg Co	
2201 Walnut St Garland Texas	1-2-3-5
Vetrol Eng'g Inc	
P O Box 1089 Stamford Conn	5
Vibrapower Co James	
4050 N Rockwell St Chicago 18 Ill	3
Vickers Inc Electric Products Div	
1887 Locust St St Louis 3 Mo	3-10-11

Voron & Co George
 835 N 19 St Philadelphia 30 Pa 1
 Wallson Associates Ltd
 953 Frelinghuysen Ave Newark 12 NJ 3
 Welch Scientific Co W M
 1515 Sedgwick St Chicago 10 Ill 1
 Weltronic Co
 19500 W 8 Mile Rd Detroit 19 Mich 5
 Westinghouse Electric Corp
 P O Box 668
 Pittsburgh 30 Pa 3-4-5-6-10-11-12
 Workman Tv Inc
 309 Queen Anne Rd Teaneck NJ 5

American Television & Radio Co
 300 E 4 St St Paul 1 Minn 38
 Amperite Co
 561 Broadway New York 12 NY 31
 A P W Co
 72 W Main St Rockaway NJ 40
 Argonne Electronics Mfg Corp
 165-11 South Rd Jamaica 33 NY 21-28
 Arrow-Hart & Hezeman Electric Co
 103 Hawthorne St
 Hartford 6 Conn 14-18-23-30-33
 Artisan Electronics Corp
 171 Ridgedale Ave
 Morristown NJ 14-23-29-40
 Assembly Products Inc
 75 Wilson Mills Rd 4-6-7-9-10-14-16-17-18-
 Chesterland Ohio 19-22-36-36
 Atlas Electric Products Co
 P O Box 1591 Erie Pa 10
 Audiomation Labs
 7230 Clinton Rd Upper Darby 14 Pa 1
 Audocall Co
 67 Mack Ave Shelby Ohio 14-25
 Automatic Electric Co 10-12-13-14-15-
 Northlake Ill 22-25-26-27-28-29-33-40
 Automatic Metal Products Corp
 323 Berry St Brooklyn 11 NY 3-24
 Automatic Switch Co
 Hanover Rd 7-8-11-14-15-19-
 Florham Park NJ 23-33-36-40
 Automatic Timing & Controls Inc
 King of Prussia Pa 8-10
 Autotron Inc
 3629 N Vermilion St Danville Ill 20
 Autron Eng Inc
 1254 W 6 St Los Angeles 17 Calif 8-20
 Avionics Ltd P O Box 200
 Niagara-on-the-Lake 14-15-16-20-24-
 Ontario Canada 28-29-33-40
 Babcock Relays Inc
 1640 Minrovia Ave 7-8-10-12-14-
 Costa Mesa Calif 21-22-28-32
 Baso Inc
 730 N Jackson St
 Milwaukee 1 Wisc 8-10-28-33
 Bell & Gossett Co/Dualex Div
 6200 Austin Ave
 Morton Grove Ill 1-9-34-38
 Belltron Mfg Co
 400 Hoover Ave
 Bloomfield NJ 10-19-28-30-33
 Bendix Aviation Corp Red Bank Div
 Rt 35 Eatontown NJ 17-19-23-36
 Bennett Co R P 1-3-4-5-7-8-10-11-12-13-
 43 S Carroll St 14-18-19-21-23-24-26-
 Frederick Md 27-29-32-33-34-36-39
 Bergen Labs
 247 Crooks Ave Clifton NJ 8-26-27
 Bernco Engineering Corp
 2320 S Tibbs Ave Indianapolis 41 Ind 15
 Bidle Co James G
 1316 Arch St Philadelphia 7 Pa 9-38
 Branson Corp
 41 S Jefferson Rd 4-10-12-18-19-21-22-
 Whippany NJ 23-28-30-31-33-46
 Bristol Co
 P O Box 1790 El
 Waterbury Conn 7-8-10-12-22-28-37-38
 British Electronic Sales
 Oakland Gardens 10-11-12-13-15-21-23-24-
 Flushing 64 NY 27-28-29-30-31-33
 Bruker Electronics Inc
 3652 Eastham Dr Culver City Calif 10-28
 B/W Controller Corp
 2200 E Maple Birmingham Mich 40
 Cable Electric Products
 234 Daboll St Providence 7 RI 30
 Cal-Ohm Labs Inc
 Broadway & Adams St Sterling Kansas 40
 Canadian Curtiss-Wright Ltd
 1980 Sherbrooke St W
 Montreal Que Canada 31
 Cannon Electric Co
 3208 Humboldt St Los Angeles 31 Calif 40
 CG Electronics Corp
 1500 Central St Albuquerque NM 38
 Clare & Co C P
 3101 Pratt Blvd 10-13-14-15-21-22-23-27-
 Chicago 45 Ill 28-29-35-37-39
 Clark Controller Co
 1146 E 152 St 8-10-11-12-14-17-18-19-
 Cleveland 10 Ohio 22-23-26-30-33-36
 Comar Electric Co
 3349 Addison St 8-10-12-13-14-21-23-24-
 Chicago 18 Ill 29-33-40
 Commercial Radio Sound Corp
 652 1 Ave New York 16 NY 1
 Continental Electronics Ltd
 302 Oakland St
 Brooklyn 22 NY 3-25-33-40
 Controls Electronics Co Inc
 1925 New York Ave Huntington Sta NY 33
 Controls Co of America
 9555 Sorenz Ave Schiller Park Ill 40
 Control Specialty Corp
 1515 Spring Houston & Texas
 Corona Eng'z Service
 9452 Corona Ave Elmhurst 73 NY 8-15
 Couch Ordnance Inc
 3 Arlington St N Quincy 71 Mass 25
 Cramer Controls Corp
 Centerbrook Conn 10-33
 Cunningham Son & Co James
 33 Litchfield St Rochester 8 NY 5-39-40
 Cutler-Hammer Inc
 315 N 12 St Milwaukee 1 Wisc 4-10-23
 Datacan Inc
 48 Notch Rd Little Falls NJ 8-20
 Davis Electric Co
 230 Spring Ave Cape Girardeau Mo 14-28-29

Deitz Co S J
 9 E Wesley St S Hackensack NJ 8-20-33
 Deltronic Corp
 1507 Riverside Dr Los Angeles 31 Calif 28
 Denrad Mfg Co
 310 W Woodward St Denison Texas 1-20
 Detect-O-Ray Co
 2622 N Halsted St Chicago 14 Ill 8-20
 Dextronics Inc
 1956 Spruce St Trenton 8 NJ 8
 Dow-Key Co Inc
 Rt 3 Hwy 69 Thief River Falls Minn 3-8-23
 Dura Kool Inc
 1010 N Main St Elkhart Ind 15-33
 Eagle Signal Corp
 202 20 St Moline Ill 10-14-26-31
 Eastman Pacific Co
 2320 E 8 St Los Angeles 21 Calif 4-10-12-28
 Ebert Electronics Corp
 212-26 Jamaica Ave 8-10-15-23-30-37
 Queens Village 28 NY
 Ely Sales Co
 130 Lafayette St New York 13 NY 20
 Edison Industries Thomas A Instrument Div
 McGraw-Edison Co 5 Lakeside Ave
 W Orange NJ 6-7-10-16-22-30-31-33
 Eicor Inc Div Jacobs Co
 517 W Walnut St Ogelsby Ill 19-36
 Electrical Communications Inc
 265 Clementina St
 San Francisco 3 Calif 26-27-29
 Electric Regulator Corp
 Pearl St Norwalk Conn 9-17-19-35-36
 Electro-Mechanical Instrument Co
 8 & Chestnut St Perkasie Pa 28
 Electro-Mechanical Specialties Co
 1016 N Highland Ave 4-7-8-10-12-18-19-
 Los Angeles 38 Calif 21-23-25-28-29-33-35-36
 Electronic Control Corp
 1573 E Forest Ave
 Detroit 7 Mich 8-18-20-33
 Electronic Production & Development
 138 Nevada St El Segundo Calif 10-23
 Electronic Specialty Co 4-6-7-8-9-10-11-12-13-
 5121 San Fernando Rd 14-17-18-19-23-24-
 Los Angeles 39 Calif 26-28-33-35-36-37-40
 Electro Physics Co
 297 Broadway New York 7 NY 8-20
 Electro-Switch & Controls Inc
 5765 Camille Ave
 Culver City Calif 10-12-14-22-28-29-33
 Electro Tec Corp
 4 Romanelli Ave S Hackensack NJ 10-23
 Elia Instrument Center
 65 Reade St New York 7 NY 30
 Elgin National Watch Co 1-3-4-5-8-10-11-
 365 Bluff City Blvd 12-13-14-18-19-21-23-
 Elgin Ill 24-25-28-29-30-33-40
 Engelhardt Eng'g Co
 38 Burritt Ave S Norwalk Conn 8
 Ercona Corp
 551 Fifth Ave New York 17 NY 30
 Essex Wire Corp
 1601 Wall St
 Ft Wayne 6 Ind 4-8-10-18-23-29-40
 Ets Instrument Co
 96 S Washington Ave Bergenfield NJ 20
 Farmer Electric Products Co
 2300 Washington St
 Newton Lower Falls 62 Mass 8
 Ferrara Inc
 8106 W 9 Mile Rd Oak Park 37 Mich 8
 Filtora Inc
 30 Sagamore Hill Dr 7-10-14-18-19-
 Port Washington NY 21-23-25-28-36
 Fisher Pierce Co
 170 Pearl St SS Braintree 85 Mass 15-20-23
 Five Star Co
 Broadway St Plantville Conn 4-23-40
 Gates Radio Co
 123 Hampshire St Quincy Ill 21-23-24
 General Automatic Corp
 12 Carlton Ave 7-8-9-10-14-18-19-
 Mountain View NJ 21-29-30-38-36
 General Communication Co
 67 Beacon St Boston 15 Mass 8-24
 General Controls Co
 801 Allen Ave Glendale 1 Calif 4-40
 General Electric Co
 Apparatus Sls Div
 1 River Rd 7-8-9-11-14-18-19-20-22-23-
 Schenectady 6 NY 26-28-33-36-40
 General Electric Co Industry Control Dept
 P O Box 2488 Rancho Va 18-19-30-33-36-40
 General Electric Co Specialty Control Dept
 P O Box 812 Waynesboro Va 8-10-20-24-33
 General Electric Co Ltd of England
 c/o Imtra Corp
 54 Charles St
 Cambridge 41 Mass 14-25-27-29-33
 General Railway Signal Co
 P O Box 600
 Rochester NY 9-18-19-27-30-32-33
 Globe Electrical Mfg Co
 1729 W 134 St
 Gardena Calif 3-4-10-11-13-14-21-25-29-38-40
 Goat Co Fred
 314 Dean St Brooklyn 17 NY 29
 Gordas Corp
 250 Glenwood Ave Bloomfield NJ 15-23-37-38
 Granger Associates
 966 Commercial St Palo Alto Calif 24
 Guardian Electric Mfg Co
 1621 W Walnut St 4-8-10-12-13-14-18-19-21-
 Chicago 12 Ill 25-26-27-28-29-32-33-36-40
 Guild Electronics Inc
 388 Broadway New York 13 NY 24
 Gulton Industries Inc
 212 Durham Ave Metuchen NJ 1-34-38

78-RELAYS

Relays, audio operated 1
 Relays, capacitance 2
 Relays, coaxial 3
 Relays, contact 4
 Relays, crossbar 5
 Relays, d'arsonval 6
 Relays, differential 7
 Relays, electronic 8
 Relays, frequency selective 9
 Relays, hermetically sealed 10
 Relays, high voltage 11
 Relays, impulse 12
 Relays, keying 13
 Relays, latching 14
 Relays, mercury 15
 Relays, meter 16
 Relays, overfrequency 17
 Relays, overload 18
 Relays, overvoltage 19
 Relays, photoelectric 20
 Relays, plate circuit 21
 Relays, polarized 22
 Relays, power 23
 Relays, R-F 24
 Relays, rotary 25
 Relays, sequence 26
 Relays, stepping 27
 Relays, subminiature 28
 Relays, telephone 29
 Relays, thermal 30
 Relays, thermostatic delay 31
 Relays, three position 32
 Relays, time-delay 33
 Relays, tuned audio 34
 Relays, underfrequency 35
 Relays, undervoltage 36
 Relays, vacuum contact 37
 Relays, vibrating reed type 38
 Relays, video switching 39
 Solenoids 40

Abrams Instrument Corp
 606 E Shawnee St Lansing 1 Mich 33
 Ace Electronics Associates
 99 Dover St Somerville 44 Mass 10-28
 Adams & Westlake Co
 1025 N Michigan Elkhart Ind 15-33
 Advanced Electronics Inc
 94 Silas Deane Hwy Rocky Hill 9 Conn 1-8
 Advanced Products
 59 Broadway North Haven Conn 26-28-33
 Aemco Inc
 10 State St
 Mankato Minn 3-4-10-11-13-14-21-23-24-28-33
 Aerolite Electronics Corp
 2207 Summit Ave Union City NJ 21-28-40
 Aerophysics Dev Corp
 Sub Curtiss-Wright Corp P O Box 689
 Santa Barbara Calif 6-7-10-20-22-23-24-38
 A G A Div Elastic Stop Nut Corp
 1027 Newark Ave Elizabeth 3 NJ 33
 Airmee Ltd
 High Wycombe Buckinghamshire England 20
 Airbax Products Co
 Middle River Baltimore 20 Md 18
 Allard Instrument Corp
 146 E 2 St Mineola LI NY 1-14
 Allen-Bridley Co
 136 W Greenfield Ave
 Milwaukee 4 Wisc 4-5-8-18-31-36-40
 Allied Control Co 3-7-10-11-12-13-14-18-19-
 2 East End Ave 21-22-23-24-25-28-29-
 New York 21 NY 32-33-36-37-39
 Allis Chalmers Mfg Co
 9432 S 70th St
 Milwaukee 1 Wisc 18-19-26-31-33-36
 AMECO Inc
 10 State St 4-10-11-12-18-14-
 Mankato Minn 21-23-24-28-29-33
 American Instrument Co
 8050 Georgia Ave Silver Springs, Md 8-23-33
 American Machine & Foundry Co
 Gen Eng Labs
 11 Bruce Pl
 Greenwich Conn 1-4-8-12-27-28-29-40
 American Research Products
 Box 185 Sorrento Fla 2

American Television & Radio Co
 300 E 4 St St Paul 1 Minn 38
 Amperite Co
 561 Broadway New York 12 NY 31
 A P W Co
 72 W Main St Rockaway NJ 40
 Argonne Electronics Mfg Corp
 165-11 South Rd Jamaica 33 NY 21-28
 Arrow-Hart & Hezeman Electric Co
 103 Hawthorne St
 Hartford 6 Conn 14-18-23-30-33
 Artisan Electronics Corp
 171 Ridgedale Ave
 Morristown NJ 14-23-29-40
 Assembly Products Inc
 75 Wilson Mills Rd 4-6-7-9-10-14-16-17-18-
 Chesterland Ohio 19-22-36-36
 Atlas Electric Products Co
 P O Box 1591 Erie Pa 10
 Audiomation Labs
 7230 Clinton Rd Upper Darby 14 Pa 1
 Audocall Co
 67 Mack Ave Shelby Ohio 14-25
 Automatic Electric Co 10-12-13-14-15-
 Northlake Ill 22-25-26-27-28-29-33-40
 Automatic Metal Products Corp
 323 Berry St Brooklyn 11 NY 3-24
 Automatic Switch Co
 Hanover Rd 7-8-11-14-15-19-
 Florham Park NJ 23-33-36-40
 Automatic Timing & Controls Inc
 King of Prussia Pa 8-10
 Autotron Inc
 3629 N Vermilion St Danville Ill 20
 Autron Eng Inc
 1254 W 6 St Los Angeles 17 Calif 8-20
 Avionics Ltd P O Box 200
 Niagara-on-the-Lake 14-15-16-20-24-
 Ontario Canada 28-29-33-40
 Babcock Relays Inc
 1640 Minrovia Ave 7-8-10-12-14-
 Costa Mesa Calif 21-22-28-32
 Baso Inc
 730 N Jackson St
 Milwaukee 1 Wisc 8-10-28-33
 Bell & Gossett Co/Dualex Div
 6200 Austin Ave
 Morton Grove Ill 1-9-34-38
 Belltron Mfg Co
 400 Hoover Ave
 Bloomfield NJ 10-19-28-30-33
 Bendix Aviation Corp Red Bank Div
 Rt 35 Eatontown NJ 17-19-23-36
 Bennett Co R P 1-3-4-5-7-8-10-11-12-13-
 43 S Carroll St 14-18-19-21-23-24-26-
 Frederick Md 27-29-32-33-34-36-39
 Bergen Labs
 247 Crooks Ave Clifton NJ 8-26-27
 Bernco Engineering Corp
 2320 S Tibbs Ave Indianapolis 41 Ind 15
 Bidle Co James G
 1316 Arch St Philadelphia 7 Pa 9-38
 Branson Corp
 41 S Jefferson Rd 4-10-12-18-19-21-22-
 Whippany NJ 23-28-30-31-33-46
 Bristol Co
 P O Box 1790 El
 Waterbury Conn 7-8-10-12-22-28-37-38
 British Electronic Sales
 Oakland Gardens 10-11-12-13-15-21-23-24-
 Flushing 64 NY 27-28-29-30-31-33
 Bruker Electronics Inc
 3652 Eastham Dr Culver City Calif 10-28
 B/W Controller Corp
 2200 E Maple Birmingham Mich 40
 Cable Electric Products
 234 Daboll St Providence 7 RI 30
 Cal-Ohm Labs Inc
 Broadway & Adams St Sterling Kansas 40
 Canadian Curtiss-Wright Ltd
 1980 Sherbrooke St W
 Montreal Que Canada 31
 Cannon Electric Co
 3208 Humboldt St Los Angeles 31 Calif 40
 CG Electronics Corp
 1500 Central St Albuquerque NM 38
 Clare & Co C P
 3101 Pratt Blvd 10-13-14-15-21-22-23-27-
 Chicago 45 Ill 28-29-35-37-39
 Clark Controller Co
 1146 E 152 St 8-10-11-12-14-17-18-19-
 Cleveland 10 Ohio 22-23-26-30-33-36
 Comar Electric Co
 3349 Addison St 8-10-12-13-14-21-23-24-
 Chicago 18 Ill 29-33-40
 Commercial Radio Sound Corp
 652 1 Ave New York 16 NY 1
 Continental Electronics Ltd
 302 Oakland St
 Brooklyn 22 NY 3-25-33-40
 Controls Electronics Co Inc
 1925 New York Ave Huntington Sta NY 33
 Controls Co of America
 9555 Sorenz Ave Schiller Park Ill 40
 Control Specialty Corp
 1515 Spring Houston & Texas
 Corona Eng'z Service
 9452 Corona Ave Elmhurst 73 NY 8-15
 Couch Ordnance Inc
 3 Arlington St N Quincy 71 Mass 25
 Cramer Controls Corp
 Centerbrook Conn 10-33
 Cunningham Son & Co James
 33 Litchfield St Rochester 8 NY 5-39-40
 Cutler-Hammer Inc
 315 N 12 St Milwaukee 1 Wisc 4-10-23
 Datacan Inc
 48 Notch Rd Little Falls NJ 8-20
 Davis Electric Co
 230 Spring Ave Cape Girardeau Mo 14-28-29

Deitz Co S J
 9 E Wesley St S Hackensack NJ 8-20-33
 Deltronic Corp
 1507 Riverside Dr Los Angeles 31 Calif 28
 Denrad Mfg Co
 310 W Woodward St Denison Texas 1-20
 Detect-O-Ray Co
 2622 N Halsted St Chicago 14 Ill 8-20
 Dextronics Inc
 1956 Spruce St Trenton 8 NJ 8
 Dow-Key Co Inc
 Rt 3 Hwy 69 Thief River Falls Minn 3-8-23
 Dura Kool Inc
 1010 N Main St Elkhart Ind 15-33
 Eagle Signal Corp
 202 20 St Moline Ill 10-14-26-31
 Eastman Pacific Co
 2320 E 8 St Los Angeles 21 Calif 4-10-12-28
 Ebert Electronics Corp
 212-26 Jamaica Ave 8-10-15-23-30-37
 Queens Village 28 NY
 Ely Sales Co
 130 Lafayette St New York 13 NY 20
 Edison Industries Thomas A Instrument Div
 McGraw-Edison Co 5 Lakeside Ave
 W Orange NJ 6-7-10-16-22-30-31-33
 Eicor Inc Div Jacobs Co
 517 W Walnut St Ogelsby Ill 19-36
 Electrical Communications Inc
 265 Clementina St
 San Francisco 3 Calif 26-27-29
 Electric Regulator Corp
 Pearl St Norwalk Conn 9-17-19-35-36
 Electro-Mechanical Instrument Co
 8 & Chestnut St Perkasie Pa 28
 Electro-Mechanical Specialties Co
 1016 N Highland Ave 4-7-8-10-12-18-19-
 Los Angeles 38 Calif 21-23-25-28-29-33-35-36
 Electronic Control Corp
 1573 E Forest Ave
 Detroit 7 Mich 8-18-20-33
 Electronic Production & Development
 138 Nevada St El Segundo Calif 10-23
 Electronic Specialty Co 4-6-7-8-9-10-11-12-13-
 5121 San Fernando Rd 14-17-18-19-23-24-
 Los Angeles 39 Calif 26-28-33-35-36-37-40
 Electro Physics Co
 297 Broadway New York 7 NY 8-20
 Electro-Switch & Controls Inc
 5765 Camille Ave
 Culver City Calif 10-12-14-22-28-29-33
 Electro Tec Corp
 4 Romanelli Ave S Hackensack NJ 10-23
 Elia Instrument Center
 65 Reade St New York 7 NY 30
 Elgin National Watch Co 1-3-4-5-8-10-11-
 365 Bluff City Blvd 12-13-14-18-19-21-23-
 Elgin Ill 24-25-28-29-30-33-40
 Engelhardt Eng'g Co
 38 Burritt Ave S Norwalk Conn 8
 Ercona Corp
 551 Fifth Ave New York 17 NY 30
 Essex Wire Corp
 1601 Wall St
 Ft Wayne 6 Ind 4-8-10-18-23-29-40
 Ets Instrument Co
 96 S Washington Ave Bergenfield NJ 20
 Farmer Electric Products Co
 2300 Washington St
 Newton Lower Falls 62 Mass 8
 Ferrara Inc
 8106 W 9 Mile Rd Oak Park 37 Mich 8
 Filtora Inc
 30 Sagamore Hill Dr 7-10-14-18-19-
 Port Washington NY 21-23-25-28-36
 Fisher Pierce Co
 170 Pearl St SS Braintree 85 Mass 15-20-23
 Five Star Co
 Broadway St Plantville Conn 4-23-40
 Gates Radio Co
 123 Hampshire St Quincy Ill 21-23-24
 General Automatic Corp
 12 Carlton Ave 7-8-9-10-14-18-19-
 Mountain View NJ 21-29-30-38-36
 General Communication Co
 67 Beacon St Boston 15 Mass 8-24
 General Controls Co
 801 Allen Ave Glendale 1 Calif 4-40
 General Electric Co
 Apparatus Sls Div
 1 River Rd 7-8-9-11-14-18-19-20-22-23-
 Schenectady 6 NY 26-28-33-36-40
 General Electric Co Industry Control Dept
 P O Box 2488 Rancho Va 18-19-30-33-36-40
 General Electric Co Specialty Control Dept
 P O Box 812 Waynesboro Va 8-10-20-24-33
 General Electric Co Ltd of England
 c/o Imtra Corp
 54 Charles St
 Cambridge 41 Mass 14-25-27-29-33
 General Railway Signal Co
 P O Box 600
 Rochester NY 9-18-19-27-30-32-33
 Globe Electrical Mfg Co
 1729 W 134 St
 Gardena Calif 3-4-10-11-13-14-21-25-29-38-40
 Goat Co Fred
 314 Dean St Brooklyn 17 NY 29
 Gordas Corp
 250 Glenwood Ave Bloomfield NJ 15-23-37-38
 Granger Associates
 966 Commercial St Palo Alto Calif 24
 Guardian Electric Mfg Co
 1621 W Walnut St 4-8-10-12-13-14-18-19-21-
 Chicago 12 Ill 25-26-27-28-29-32-33-36-40
 Guild Electronics Inc
 388 Broadway New York 13 NY 24
 Gulton Industries Inc
 212 Durham Ave Metuchen NJ 1-34-38

G-V Controls Inc 45 Hollywood Plaza E Orange NJ	10-17-18-19-30-33		
Gyro Electronics Co 325 Canal St New York 13 NY	9-38		
Hall-Scott Inc 2950 N Ontario St Burbank Calif	33		
Hamlin Inc 1316 Sherman Ave Evanston Ill	10-15-24-30		
Hartman Electrical Mfg Co 175 N Diamond St Mansfield Ohio	4-9-10-14-17-18-19- 22-23-26-33-36-36		
Hart Mfg Co 128 Bartholomew Ave Hartford Conn	2-4-8-10-18-22-23-26-28-33		
Haydon Co A W 232 N Elm St Waterbury 20 Conn	8-10-16-28-33		
Haydon Div General Time Corp 245 E Elm St Torrington Conn	33		
H-B Instrument Co American & Bristol Sta Phila Pa	8-11-15-17		
Heath Co 306 Territorial Rd Benton Harbor Mich	1		
Heinemann Electric Co Pennsylvania Ave & Plum St Trenton 2 NJ	18-33		
Hetherington Inc 7 Welmar Dr Polcroft Pa	10-23-33-40		
High Vacuum Equipment Corp 2 Churchhill Rd Hingham Mass	37		
Hi-G Inc Bradley Field Windsor Locks Conn	10-21-23-25-28		
Hillburn Electronic Products Co 55 Nassau Ave Brooklyn 22 NY	4-5-10-12-13-14-18-19-20- 21-23-28-29-33-39-40		
Hufco Industries 2815 W Olive Ave Burbank Calif	10-21-23-28-29		
Hughes Products Hughes Aircraft Co 380 W 104 St Intl Airport Sta Los Angeles 45 Calif	30		
Hupp Electronics Co Div Hupp Corp 743 Circle Ave Forest Park Ill	20		
Industrial Electronic Controls 2271 E 14 St Brooklyn 29 NY	8		
Instruments Inc 122 N Madison St Tulsa Okla	2-5		
Iron Fissman Mfg Co Electronics Div 2838 S E 9 Ave Portland 2 Ore	37		
Jaidinger Mfg Co 1921 W Hubbard St Chicago 22 Ill	9-10-11-12-13-14-18-19- 21-23-24-28-33-38		
Jennings Radio Mfg Corp 970 McLaughlin Ave San Jose 8 Calif	37		
Johnson Co E F 206 2 Ave S W Waseca Minn	8		
J-V-M Eng'g Co 4633 S Lawndale Ave Lyons Ill	3-24		
Kellogg Switchboard & Supply Co Div IT&T 79 W Monroe St Chicago 3 Ill	5-9-12-29		
Kinetica Corp 410 8 Colfax Ave Solomon Beach Calif	4-10-23-36		
King Electric Equipment Co 9123 Inman Ave Cleveland 5 Ohio	38		
Kurman Electric Co 191 Newel St Brooklyn 22 NY	3-4-8-10-11-12-13-14-18-19-20- 21-22-23-24-28-29-33-39		
Labline Inc 3070 W Grand Ave Chicago 22 Ill	8		
Larson Instrument Co 24 Orchard St Tarrytown NY	4-6-7-8-14-16-18- 19-22-32-36		
Leach Corp Leach Relay Div 5915 Avalon Blvd Los Angeles 3 Calif	10-11-12-13-14-16-17-18- 19-21-22-23-24-28-29-36-39		
Lealectronics Inc Lee Instrument Div 30 Main St Brooklyn 1 NY	40		
Lekans Labs Inc 154 H Ave New York 11 NY	33		
Leland Inc G H 123 Webster St Dayton 2 Ohio	18-25-27-40		
Life Instrument Co P O Box 158 Bainbridge 85 Mass	1-4-7-10-18-19- 21-23-30-33-36		
Line Electric Co 251 S 6 St Newark 3 NJ	4-14-21-28-30-33		
Linlar Inc 4101 San Fernando Rd Glendale 4 Calif	40		
Lisk Co G W Clifton Springs NY	40		
Livington Electronic Corp P O Box 3 Livingston NJ	30-33		
Loewman Co G W 633 Bergen St Brooklyn 38 NY	8		
Lumelite Electronic Co 407 S Dearborn St Chicago 5 Ill	2-8-12-14-20-26-27-33		
Luther Mfg Co 7512 Varco Ave N Hollywood Calif	7-10-22-28		
Lycac Mfg Co 1401 Clinton St Hoboken NJ	3-24		
Macarr Inc 2843 Boston Rd New York 67 NY	2-4-8-20		
Machinery Electrification Inc 35 Hudson St Northboro Mass	2-4-8-20		
Mag Electric Devices Inc 48 Glenside Ave Wyncote Pa	15		
Mack Electronics Div Inc 1600 S 2 St Plainfield NJ	8		
Magnadyne Corp 84 S Water St Port Chester NY	4-5-7-10-13-20- 21-22-28-33		
Magnetics Electric Co 3352 W Grand Ave Chicago 51 Ill	8-4-5-7-10-11-12-13-14-18- 19-21-23-24-26-28-29-33-36		
Magnetec Corp 11785 W Olympic Blvd W Los Angeles 64 Calif	38-40		
Magnetic Devices Inc 712 East St Frederick Md	3-11-22-25		
Magnuson Engineers Inc 608 Emory St San Jose 10 Calif	25		
Manning Maxwell & Moore Inc 259 E Main St Stratford Conn	8		
Marion Electrical Instrument Co Grenier Field Manchester NH	3-6-10		
Mason Electric Corp 3839 Verdugo Rd Los Angeles 65 Calif	10-14-27-40		
Measurement Eng'g Ltd 232 John St Arnprior Ontario Can	8-20		
Mercury Contacts Inc P O Box 615-E Far Hills Sta Dayton 9 Ohio	15		
Mohil Electronics Mfg Co 1111 State Rd 67 E Anderson Ind	1		
Modelistic Products Corp Ashury Park NJ	40		
Monitor Controller 99 Grove St Rockland Mass	18-21-30		
Moore Associates Inc 2628 Spring St Redwood City Calif	5-14		
Muirhead Instruments Inc 67 5 Ave New York 22 NY	7		
Mullenbach Div Electric Machinery Mfg Co 2100 E 27 St Los Angeles 58 Calif	8		
National Aircraft Corp Electronics Div 3411 Tulare Ave Burbank Calif	40		
Naybur Laboratories Inc E V 26 Manhattan Blvd Port Washington NY	10-18-19-21-23- 25-28-33-36-40		
Nemeth Inc 2223 S Carmelina Ave 5-7-9-10-13-14-17-21- Los Angeles 64 Calif	23-25-26-27-28-33-35-36-40		
Networks Electronic Corp 14806 Oxnard St Van Nuys Calif	10-30		
Niagara Electric Lab P O Box 128 Main St Andover NY	2		
North Electric Co 553 S Market St Galion Ohio	5-8-12-13-14-18-19-21-22- 23-26-27-28-29-33-36-38		
Oak Mfg Co 1260 N Clybourn Ave Chicago 10 Ill	40		
Ohmite Mfg Co 3601 Howard St Skokie Ill	4-10-14-18-19-21-23-29-33-36		
OK Electronics Corp 7 Hunt Pl 2-4-7-8-9-10-11-12-13-17-18-19-21- Nutley 10 NJ	22-23-26-27-30-31-33-35-36-37		
Opad Electric Co 69 Murray St New York 7 NY	8-11-17-18-19-33-35-36		
Palmer Inc M V 4002 Fruit Valley Rd Vancouver Wash	27-29		
Penta Laboratories Inc 312 N Nopal St Santa Barbara Calif	37		
Permotex Products Co 4101 San Fernando Rd Glendale 4 Calif	40		
Peschal Electronics Inc 13 Garden St New Rochelle NY	8-11		
Phaestron Instrument & Electronic Co 151 Pasadena Ave Pasadena Calif	4-10-14-21-23-25-29		
Phila Scientific Glass Co Box 45C Paletown Rd Quakertown Pa	4-8-10-15-23-37		
Phillips Control Corp Joliet Ill	4-8-10-11-12-13-14-21- 23-24-28-29-33-39-40		
Photoell Co 48 Vasey St New York 7 NY	2-20		
Pollak Corp Joseph 81 Froggert St Boston 22 Mass	3-4-7-8-10-11-18- 20-28-29-33-36-40		
Potter & Brumfield Inc 1200 E Broadway Princeton Ind	7-10-12-14-21-23-25-27-28-29- 30		
Potter & Brumfield Inc Franklin Ky	19-21-23-27-28-29-33		
Potter & Brumfield Inc Laconia Div 34 Mill St Laconia NH	4-10-14-21-27-28-29		
Powers Regulator Co 3400 Oskott St Skokie Ill	30		
Precision Scientific Co 3737 W Cortland St Chicago 47 Ill	8		
Price Electric Corp E Church & 2 St Frederick Md	3-4-10-11-13-18-19-21- 23-24-25-27-28-29-33-36		
P S P Eng'g Co Div Induction Motors 8808 Otis St South Gate Calif	40		
Pyramint Instrument Corp 630 Merrick Rd Lynbrook 11 NY	4-6-14-23-30-31		
Radio Corp of America Commercial Electronic Products Front & Cooper Sts Camden NJ	8-10-24-25-26		
Radio Eng'g Products Ltd 1080 University St Montreal 3 Que Canada	13		
Radionics Inc P O Box 186 Cockeysville Md	40		
Handall Inc Douglas 6 Pawtucket Ave Westerly RI	10-23-28-40		
R B M Div Essex Wire Corp 131 Guildford St Logansport Ind	4-5-8-10-20-21- 23-24-29-30-31-40		
Relay Sales Inc P O Box 186 W Chicago Ill	3-4-7-8-10-11-12-13-14- 15-18-21-22-23-24-25- 26-27-28-29-30-31-33-40		
Research Industrial Lab of Electronics Roslyn Pa	8		
Resatron Labs Inc 2908 Nebraska Ave Santa Monica Calif	4-11-15-24-37-40		
Revere Corp of America N Colony Rd Wallingford Conn	10-38		
Rhodes Inc M H 30 Bartholomew Ave Hartford Conn	33		
Rich Electronics Inc 212 N W 8 Ave Miami 36 Fla	11-14-24		
Ripley Co 1 Factory St Middletown Conn	8-20		
Riverbank Labs Eng'g Dept P O Box 65 Geneva Ill	9		
Robertshaw-Fulton Co Acro Div Columbus 16 Ohio	4-11-12-23-25-28-29-40		
Rockwell Eng'g Co 2133 E 45 St Indianapolis 5 Ind	8-20		
Roto Mfg Co 1030 W 2 St Xenia Ohio	40		
Sag Harbor Industries Box N Sag Harbor NY	40		
Saratoga Industries Congress & Ballston Aves Saratoga Springs NY	25		
Scherma Mfg Co F A 424 Broome St New York 13 NY	3-8-10-29		
Schreck Electrical Sales Corp 1100 Madison Ave New York 28 NY	23-27-29		
Scientific Glass Apparatus Co 100 Lakewood Terrace Bloomfield NJ	8-15		
Scully Machine Co 62 Walter St Bridgeport 8 Conn	40		
Sealcraft Switch & Relay Corp 6025 N Keystone Ave Chicago 30 Ill	10-14-18-25-28-29		
Servo-Tek Products Co 1086 Goffie Rd Hawthorne NJ	8		
Sigmadyne of Conn P O Box 869 Port Chester NY	7-10-14-20-21-28-33		
Sigma Instruments Inc 170 Pearl St Bainbridge Mass	7-10-13-14-22-27-28-32		
Simpson Electric Co 5200 W Kinzie St Chicago 41 Ill	6-13-14-16-28-33		
Slaughter Co Young and College Sts Piqua 9 Ohio	8		
Standard Electromagnetics Inc 43-45 Carroll St Frederick Md	1-3-4-5-7-8-10-13-14- 20-21-23-24-26-27-28-29-40		
Stelma Inc 190 Henry St Stamford Conn	8		
Stevens-Arnold Inc 7 Elkins St South Boston 27 Mass	4-9-10-13-21-22-34-38		
Stromberg-Carlson Div General Dynamics Corp 100 Carlson Rd Rochester 3 NY	4-5-12-13-22-29-38		
Struthers-Dunn Inc Lamba Rd Pitman NJ	18-19-21-22-23-24-25- 26-27-28-29-30-31-33-36-37		
Super Electronics Corp 53 Worth St New York 13 NY	1		
Tally Register Corp 5300 14 Ave NW Seattle 7 Wash	12-14-27		
Technical Oil Tool Corp 1057 N La Brea Los Angeles 38 Calif	3-24		
Telectro Industries Corp 35-18 37 St Long Island City 1 NY	1-2-8-9-10-11		
Tel-Rad Electronics Corp 73-20 Trotting Course Lane Glendale LI 27 NY	40		
Tempo Instrument Inc 240 Old Country Rd Hicksville NY	5-14-18-19-33-36		
Terado Co 1068 Raymond Ave St Paul 14 Minn	4-10-13-16-28		
Tork Time Controls Inc 1 Grove St Mt Vernon NY	33		
Torwico Electronics Inc 1090 Morria Ave Union NJ	9-17-33-35		
Touch-Plate Mfg Corp P O Box 1970 Long Beach 1 Calif	14		
Transon Products Inc 12210 Nebraska Ave Los Angeles 25 Calif	3-24		
Tri-Tronics Co 2607 St Charles Rd Bellwood Ill	2-8-20		
Tung-Sol Electric Inc 95 S Ave Newark 4 NJ	10-19-19-30-33		
Union Switch & Signal Div 1789 1807 Bradlock Ave Swissvale Pa	10-12-18-21- 22-26-28-30-33-36		
United Aircraft Products Inc 1116 Bolander Ave Dayton 8 Ohio	30-31-32-37-40		
United Transformer Corp Pacific Div 4008 W Jefferson Blvd Los Angeles 16 Calif	40		
Unit Process Assemblies Inc 61 E St New York 3 NY	40		
U S Relay Co 1744 Albion St Los Angeles 31 Calif	4-5-9-10-11-14-17-19-19-21- 23-28-29-30-33-35-36-40		
Vapor Heating Corp 80 E Jackson Blvd Chicago 4 Ill	4-11-23-30		
Vee Mfg Co 2201 Walnut St Garland Texas	9-17-36		
Versailles Products Div Metals & Controls Corp 300 N Main Versailles Ky	18		
Victory Eng'g Co 121 Springfield Rd Union NJ	4-8-22		
Virginia Electronics Co River Rd & R O RR Washington 16 DC	1		

Vokar Corp	
7300 Huron River Dr Dexter Mich	40
Waco Inc	
2032 Broadway Santa Monica Calif	40
Ward Leonard Electric Co	
Mt Vernon NY	18-23
Warsaw Coil Co	
Segal St Warsaw Ind	40
Waugh Eng'g Co	
7842 Burnet Ave Van Nuys Calif	17
Webster Electric Co	
1900 Clark St Racine Wis	4-13-14-28-33-40
Westinghouse Electric Corp	
P O Box 868	4-6-7-9-14-17-18-19-21-
Pittsburgh 30 Pa	22-23-30-33-35-36
Weston Electrical Instrument Corp	
614 Frelinghuysen Ave	6-23-29-33
Newark 12 NJ	
Weymouth Instrument Co	
1440 Commercial St E	
Weymouth 89 Mass	40
Wheelock Signals Inc	
273 Branchport Ave	3-4-10-12-13-18-
Long Branch NJ	19-21-22-23-24-
Wilson & Co C C	25-28-29-32-33-36-39
1915 8 Ave Huntington 1 W Va	33
Zenith Electric Co	
152 W Walton St	
Chicago 10 Ill	14-25-26-27-35

79—RESISTORS & VOLUME CONTROLS

Attenuators, audio	1
Attenuators, precision	2
Networks, potted	3
Potentiometers, composition	4
Potentiometers, high resistance	5
Potentiometers, high voltage	6
Potentiometers, linear & non-linear	7
Potentiometers, metallic film	8
Potentiometers, precision, auto transformer	9
Potentiometers, precision, carbon film	10
Potentiometers, precision, wirewound	11
Potentiometers, printed circuit	12
Potentiometers, slide wire	13
Potentiometers, trimmers	14
Resistors, boroncarbon	15
Resistors, composition, variable	16
Resistors, decade	17
Resistors, deposited-carbon	18
Resistors, encapsulated	19
Resistors, film	20
Resistors, fixed composition	21
Resistors, fixed wirewound	22
Resistors, fuse	23
Resistors, glass	24
Resistors, high frequency	25
Resistors, high temperature	26
Resistors, high voltage	27
Resistors, industrial fixed	28
Resistors, negative temperature coefficient	29
Resistors, plug-in tube	30
Resistors, precision	31
Resistors, printed circuit	32
Resistors, printed strip	33
Resistors, rectilinear	34
Resistors, subminiature	35
Resistors, tape	36
Resistors, temperature sensitive	37
Resistors, variable	38
Resistors, variable, miniature	39
Resistors, variable, wirewound	40
Rheostats, electronic	41
Rheostats, power	42
Rheostats, slidewire	43
Suppressors	44
Thermistors	45
Varistors	46
Volume controls	47
Wirewound strips	48

Accuracy Inc	
4 Gordon St	
Waltham 54 Mass	5-7-11-13-14-40
Ace Electronics Associates	
99 Dover St	
Somerville 44 Mass	4-5-6-7-11-12-14-35
Aerophysics Dev Corp Sub Curtis-Wright Corp	
P O Box 689 Santa Barbara Calif	3-7-8-47
Aerovox Corp	
740 Belleville Ave	1-2-13-17-18-19-
New Bedford Mass	22-26-31-32

Alco Electronics Mfg Co	
3 Wolcott Ave Laurence Mass	17
Allen-Bradley Co	
136 W Greenfield Ave	1-4-5-16-19-20-21-
Milwaukee 4 Wis	26-31-38-41-47
Allied Chemical Div Allied Chem & Dye	
40 Rector St	
New York 8 NY	5-6-7-11-12-14-34-38-41-43-48
Allies Products Corp	
P O Box 188 Kendall Station	18-31
Miami Fla	
American Communications Corp	
280 Broadway New York 17 NY	1-47
Analogue Controls Inc	
39 Roselle St Mineola NY	7-9-11-13-40-41-43
Anton Electronic Labs	
1226 Flushing Ave	
Brooklyn 37 NY	5-6-7-11-38-39-40
Ardente Acoustic Labs Ltd	
Minerva Rd	
London NW 10 England	7-14-38-39-47
Argonne Electronics Mfg Corp	
165-11 South Rd Jamaica 33 NY	47
Associated American/Div R & G Inc	
750 St Anns Ave New York 56 NY	18
Atlas Resistor Co	
1124 Madison St Chester Pa	22-40
Avia Products Co	
7266 Beverly Blvd Los Angeles 36 Calif	28
Avnet Electronic Supply Co	
36 N Moore St New York 13 NY	16-18-19
Axel Broe Inc/Electronics Div	
134-20 Jamaica Ave	3-19-22-29-31-37
Jamaica 18 NY	
Bach-Simpson Ltd	
1255 Brydges St	
London Ont Canada	18-19-20-25-29-31
Baird-Atomic Inc	
33 University Rd Cambridge 38 Mass	45
Barker & Williamson Inc	
Canal & Beaver Sts Bristol Pa	3
Beck Bros	
421 W Sedgley Ave	
Philadelphia 40 Pa	22-31-40-42-43
Beckman Helipot Corp	
Newport Beach Calif	5-7-11-14
Bendix Aviation Corp/Friez Instrument Div	
1400 Taylor Ave Baltimore 4 Md	45
B & H Instrument Co	
3479 W Vickery Blvd	
Ft Worth 7 Texas	7-11-18
Biddle Co James G	
1316 Arch St Philadelphia 7 Pa	43
Blackburn Electronic Corp	
55 W 7 St Wyoming Pa	1-19-22-26-28-30-31-35
Bond Electronics Corp	
60 Springfield Ave	
Springfield NJ	19-22-28-31-32
Bore Equip Div George W Borg Corp	
120 S Main St Janesville Wis	7-11-12-14
Burns Labs Inc	
P O Box 2112	4-5-6-7-9-10-11-12-14-
Riverside Calif	16-18-19-38-39-40
Bradford Components Inc	
65 South Ave	19-22-23-24-25-27-
Salamanca NY	28-30-31-32-35-48
British Electronic Sales Co Inc Painton Div	
Oakland Gdns	1-2-7-11-13-14-18-19-20-22-24-
Flushing 64 NY	25-26-31-32-33-34-35-39-40
British Radio Electronics Ltd	
1833 Jefferson Pl NW	
Washington 6 DC	4-7-11-12-14-16-39-40
Butcher Co L H	
3628 E Olympic Blvd Los Angeles Calif	42
Calbest Electronics Co	
4801 Exposition Blvd Los Angeles 16 Calif	11
Calif Magnetic Control Corp	
11923 Valerio St N Hollywood Calif	3
Cal-Ohm Labs Inc	
1-2-3-7-11-12-13-14-17-19-	
Broadway & Adams St	22-26-27-29-30-31-32-
Sterling Kansas	34-35-37-39-39-40-41-43-48
Campbell Industries Inc	
Dover NH	18-19-20-31
Canadian Curtis-Wright Ltd	
1989 Sherbrooke St	
W Montreal Que Canada	19-22-31
Carborundum Co Globar Div	
Hyde Park Blvd	21-25-26-27-29-
Niagara Falls NY	35-37-44-45-46
Cardinal Instrumentation Corp	
4201 Redwood Ave Los Angeles 66 Calif	37
Carter Mfg Corp	
23 Washington St Hudson Mass	7-11-15-14
Carter Parts Co	
3401 W Madison St Skokie Ill	1-7-14-22-40
C B C Electronics Co	
2601 N Howard St Philadelphia 33 Pa	20
Cedar Eng'g Inc	
5806 W 36 St Minneapolis 16 Minn	7
Centralab Div Globe Union Inc	
900 E Keefe Ave	4-16-21-27-32-
Milwaukee 1 Wis	35-38-39-40-47
Central Scientific Co	
1700 Irving Park Rd Chicago 13 Ill	43
Central Scientific Co of Calif	
1040 Martin Ave Santa Clara Calif	43
Central Scientific Co of Canada Ltd	
146 Kendal Ave Toronto 4 Ont Canada	43
Chicago Industrial Instrument Co	
865 N Sangamon St Chicago 22 Ill	11
Chicago Telephone of Calif	
105 Pasadena Ave	4-5-12-16-38-47
S Pasadena Calif	
Chicago Telephone Supply Corp	
1142 W Beardsley Ave	4-6-7-11-12-16-19-20-
Elkhart Ind	22-27-31-32-35-38-39-40-41-45-47
Cinema Eng'g Div Aerovox Corp	
1100 Chestnut St	1-2-3-11-17-19-
Rurbank Calif	22-31-32-35

Circuit Instruments Inc	
2801 Anvil St	
N St Petersburg 1 Fla	7-11-13-14
Clark Controller Co	
1146 E 152 St	
Cleveland 10 Ohio	21-22-27-28-40-42
Clarostat Mfg Co	
1-2-3-4-5-6-7-11-14-	
Washington St	16-17-18-19-20-22-23-30-
Dover NH	31-34-38-39-40-42-47-48
Coil Winders Inc	
30 New York Ave New Cassel	3-3-19-22-44-48
Westbury LI NY	
Computer Instruments Corp	
92 Madison Ave	
Hempstead NY	7-10-20-38-39
Con-Elec	
1711 S Mountain Ave Munrovia Calif	14
Consolidated Productions Inc	
Broward Int'l Airport Ft Lauderdale Fla	3
Consolidated Resistance Co of America	
44 Prospect St	
Yonkers 1 NY	3-17-19-22-31-35
Corbett Science Labs F W	3-7-8-9-10-11-12-13-
3117 Venice Blvd	14-16-18-17-19-20-21-22-28-
Los Angeles 19 Calif	31-32-33-34-35-38-39-
	40-47-48
Corning Glass Works	
20-24-25-26-27-31-32	
Corning NY	
Crescent Eng'g & Research Co	
5440 N Peck Rd El Monte Calif	3
Dale Products Inc	
P O Box 136	3-5-6-7-11-12-14-17-18-19-20-22-
Columbus Nebr	23-25-26-27-28-29-31-32-35
Daven Co	1-2-3-4-5-7-8-10-11-12-17-
Route 10	19-20-22-23-25-26-27-30-31-
Livingston NJ	32-34-35-36-37-47-48
Davis-K-Products Co	
135 W 29 St New York 1 NY	42
Daystrom Pacific Corp	
9320 Lincoln Blvd	
Los Angeles Calif	7-11-12-14
DeFrance Eng'g & Microwave Corp	
Beverly Airport Beverly Mass	2
De Jur-Amarco Corp Electronic Sales Div	
45-01 Northern Blvd	5-6-7-11-13-
Long Island City 1 NY	14-42-43
Dewitt Development Co	
3008 W 127 St Blue Island Ill	11-35-48
Dimeter Mfg Co	
22-24 Larkin Plaza	
Yonkers NY	1-2-3-17-22-30
D & M Products	
13144 W McNichols Rd Detroit 35 Mich	47
Dumore Co	
1300 17 St Racine Wis	42
Dunlap Electronics	
744 9 St Des Moines 14 Iowa	1-3
Dwyer Eng'g Co	
Pine St Ext Nashua NH	10-12-31-32-36
Eastern Precision Resistor Corp	
85 Barbey St	2-3-14-17-19-22-23-26-
Brooklyn 7 NY	31-32-35-37-39
Eastman Pacific Co	
2320 E 8 St	
Los Angeles 21 Calif	18-19-25-31-32-35
Edcliff Instruments	
1711 S Mountain Ave	
Munrovia Calif	11-14-40
Elco Mfg Co	
137 Herrick Rd New Hyde Park LI NY	2
Electra Mfg Co	
4051 Broadway	
Kansas City Mo	18-19-20-25-29-31-35
Electro-Flex Heat Inc	
83 Woodbine St Hartford 6 Conn	26-28-36
Electro Instrument Inc	
Aero Ct San Diego Calif	31
Electromath Corp	
42-14 Greenpoint Ave	5-6-7-11-13-22-25-26-
Long Island City 4 NY	27-31-34-35-38-39-40
Electro-Measurements Inc	
752 S W Macadam Ave	
Portland 1 Ore	9-11-17-22-31
Electro-Mec Lab Inc	
47-51 33 St	
Long Island City 1 NY	7-11-22-30-46-48
Electronic Associates Inc	
Long Branch NJ	3-11
Electron-Radar Products	
4806 W Chicago Ave Chicago 51 Ill	1-2
Electrovert Inc	
489 5 Ave New York NY	11
Electro-Voice Inc	
Cecil & Carroll Sts Buchanan Mich	1
Electro-Serv Co	
480 Johnson Ave	
Brooklyn 37 NY	5-7-10-18-20
Empire Devices Products Corp	
38-15 Bell Blvd Bayside 61 NY	2
Erie Resistor Corp	
644 W 12 St	
Erie 6 Pa	19-19-20-21-27-31-32-44
Erie Resistor of Canada Ltd	
7 Fraser Ave Trenton Ont Canada	21-24
ESC Corp	
534 Bergen Blvd Palisades Park NJ	3
Fairchild Controls Corp	
6111 E Washington Blvd	7-8-9-10-11-14-
Los Angeles Calif	20-22-31-34-38
Fairchild Controls Corp Components Div	
226 Park Ave	
Hicksville LI NY	5-7-8-11-14
Fidelity Amplifier Co	
1633 N Halsted St Chicago 14 Ill	17
Filmhm Corp	
48 W 25 St New York 10 NY	20-24-25-31-35
Filtron Co	
10023 W Jefferson Blvd	
Culver City Calif	44
Ford Eng'g Inc	
3030 Nebraska Ave Santa Monica Calif	5-7-11

Foxboro Co Neponset Ave Foxboro Mass	13	Mallory & Co Inc P R 42 S Gray St Indianapolis 6 Ind	1-4-5-7-10-11-12-16- 18-21-22-23-27-28-32 35-38-39-40-41-42-47	Reon Resistor Corp 117 Stanley Ave Yonkers NY	4-7-16-19-22-29-31-35-47-48
Friez Instrument Div Bendix Aviation Corp 1400 Taylor Ave Baltimore 4 Md	45	Markite Corp 165 Waverly Pl New York NY	4-7	Research Instrument Co P O Box 9168 Montavilla Station Portland 16 Ore	11-17-22-40
Fugle-Miller Labs Inc 301 Central Ave Clark NJ	3-22	Maurey Instrument Corp 7924 S Exchange Ave Chicago 17 Ill	5-7-11-12-14-41	Resistance Products Co 914 S 13 St Harrisburg Pa	17-19-20-21-22-25-27-31-32-35
Furberhill Labs Ltd 57 Clarendon Rd Watford England	1-17	Mel-Kain Corp 2100 E Fletcher Ave Indianapolis 3 Ind	7-11-22-38-39-40-41-42-48	Restatronics Inc 6226 W 26 St Chicago 13 Ill	22-40-42
Gamewell Co 1233 Chestnut St Newton Upper Falls 64 Mass	11-31-39	Mepeco Inc 35-37 Abbett Ave Morristown NJ	3-17-18-19-20-22-24-25- 26-27-28-29-30-31-32-35	Rex Rheostat Co 3 Foxhurst Rd Baldwin LI NY	13-22-25-28-40-43
Gate Radio Co 123 Hampshire St Quincy Ill	1-2	Meredith & Co Ltd C C 40 Thomas St Streetsville Ont Canada	4-5-7-12-16-31- 38-39-40-47	Rho Eng Co 2242 Sepulveda Blvd Los Angeles Calif	19-22-31-32
G.C. Electronics Div General Cement-Teatron 400 S Wyman St Rockford Ill	21-22-27-38-42	Metavac Inc 45-68 162 St Flushing 58 NY	2-20-24-26-31-37-45-46	Rico Inc 7962 SE Powell Blvd Portland 6 Ore	5-6-7-11-17-22-31-41
General Cement Mfg Co Div Tetrion Inc 400 Wyman St Rockford Ill	21-45	Milco Electronic Corp 7501 N W 37 Ave Miami 47 Fla	22-31	Rue Products 1628 Venice Blvd Venice Calif	1-2-3-19-22-25-26-27- 28-29-30-31-32-33-34-35-37-48
General Controls Co 801 Allen Ave Glendale 1 Calif	3-6-7-11-12-13-14-34- 38-39-40-41-43-48	Miller Electro-Research Labs 5829 S 5 St Milwaukee Wisc	17-31-37	Ruse Associates Arthur C 733 Concord Ave Cambridge 38 Mass	37
General Electric Co Magnetics Materials Sec 2500 N Neff Rd Edmore Mich	29-45-46	Milwaukee Resistor Co 700 W Virginia St Milwaukee 4 Wisc	22-23-26-27-28-31- 32-37-38-39-40	Sage Electronics Corp 302 N Goodman St Rochester 7 NY	3-22-28-29-31
General Electric Co Box 287 Roosevelt Park Annex Detroit 32 Mich	45-46	Milco Products Inc 740 Washington Ave Minneapolis 1 Minn	11	San Fernando Electric Mfg Co 1509 1 St San Fernando Calif	7-11
General Electric Co Apparatus Sls Div 1 River Rd Schenectady 6 NY	1-11-13-22-40	Minn-Honeywell Regulator Co Aeronautical Div 2600 Ridgway Ave Minneapolis 13 Minn	5-7-11-13	Servomechanisms Inc 1200 Prospect Ave Westbury NY	4-5-9-11
General Electric Co Industry Control Dept P O Box 2488 Roanoke Va	28-39-40-42	Minn-Honeywell Regulator Co Rubicon Instruments Ridge Ave at 35 St Philadelphia 12 Pa	17	Servonic Instruments Inc 640 Terminal Way Costa Mesa Calif	7-34
General Electric Co 275 Massachusetts Ave Cambridge 39 Mass	1-2-5-7-11-17-22- 31-38-40-43	Model Eng'g & Mfg Inc 60 Freierick St Huntington Ind	1-7-22-23-26-28-30-38-40-42	Servonics Inc 822 N Henry St Alexandria Va	7-38
General RF Fittings Inc 102 Beacon St Boston 15 Mass	2	Mohawk Business Machines Corp 844 Halsey St Brooklyn 33 NY	48	Servo Systems Co 55 Meecker Ave Newark 12 NJ	10-11-13-14
General Railway Signal Co 1 0 Box 500 Rochester NY	21-22	Muller Co 1255 S Michigan Ave Chicago Ill	11-22-38-39-40-48	Servotrol Co 114 W Illinois St Chicago 10 Ill	11
General Resistance Inc 177 E 156 St New York 65 NY	2-3-17-19-22-26-28- 29-31-32-35-36	Mullenbach Div Electric Machinery Mfg Co 2100 E 27 St Los Angeles 58 Calif	28	Shallerus Mfg Co Jackson & Pusey Aves Collingdale Pa	1-3-11-17-19- 22-28-31-32-35
General Transistor Corp 21-27 138th Pl Jamaica 35 NY	31-32	Napco Associates Inc Littleton Mass	11-31-40	Specialties Inc Skunks Misery Rd Sposnet LI NY	7-11-13
Gerber Products Inc 3211 La Cienega Blvd Los Angeles Calif	9	National Capacitor Co 18 Webster St Brookline 46 Mass	3	Spectral Electronics Div Carrier Corp 1704 S Del Mar Ave San Gabriel Calif	5-6-7-11-13-38-39-40
Giannini & Co G M 918 E Green St Pasadena Calif	5-6-7-11-13	Non-Linear Systems Inc Del Mar Airport Del Mar Calif	19-22-31	Speer Resistor Div Speer Carbon Co Bradford Pa	21
Gray Instrument Co 380 E Church Lane Philadelphia 44 Pa	11-17-22-31	Norden-Ketay Corp Precision Components Div 6 Jericho Trpk Commack NY	7	Sprague Electric Co Marshall St North Adams Mass	31-32-35-37-38-40
Great Eastern Mfg Co 183-185 Hermon Ave Brooklyn 12 NY	23-46	Nucleonic Products Co 1601 Grande Vista Ave Los Angeles 23 Calif	18	Stackpole Carbon Co St Marys Pa	21-38
Gulton Industries Inc 212 Durham Ave Metuchen NJ	45	Ohio Carbon Co 12508 Berea Rd Cleveland 11 Ohio	16-21-22-23-25-26-27-44	States Co 19 New Park Ave Hartford 6 Conn	29
Hallett Mfg Co 3810 Bowercraft St Los Angeles Calif	44	Ohmite Mfg Co 3601 Howard St Skokie Ill	1-4-7-13-16-17-19-20- 21-22-23-26-28-31-32- 35-39-40-41-42-43-47-48	Sticht Co Herman Pa 27 Park Pl New York 7 NY	43
Hendley Electronics Inc 14759 Kewick St Van Nuys Calif	5-7-11-14	Onodara Pottery Co 1854 W Fayette St Syracuse 1 NY	32	Super Electronics Corp 53 Worth St New York 13 NY	4-5-6-16-17-18
Hansen Electronics Co 117 Santa Monica Blvd Los Angeles 46 Calif	21-32-33-36	Osborne Electronic Corp 712 S E Hawthorne Blvd Portland 14 Ore	7-11	Superior Electric Co 83 Laurel St Bristol Conn	42
Hardwick Hindle Inc 40 Hermon St Newark 6 NJ	7-13-22-38-40-41-42-43	Pacific Scientific Co P O Box 22019 Los Angeles 22 Calif	7-11	Symphonic Electronics Corp 225 S Western Ave Los Angeles 6 Calif	21-22-23
Helen Products Corp 7892 Balboa Blvd Van Nuys Calif	7-11-12-38-39-40	Palnton & Co Ltd British Electronic Sales Co Box 132	1-2-7-11-13- 14-17-18-19-20-22-24-25-26-27-28- 29-31-32-35-38-39-40	Techniques Inc 52 Jackson Ave Hackensack NJ	33
Heliport Corp Newport Beach Calif	5-6-7-8-11-14-15	Perkin-Elmer Corp Main Ave Norwalk Conn	9	Technology Instrument Corp 531 Main St Acton Mass	5-7-8-11-13-14-38-39-40
Hewlett-Packard Co 275 Page Mill Rd Palo Alto Calif	1-2	Perkin-Elmer Corp Vernistat Div Emerald St Norwalk Conn	2-5-9	Tech-Ohm Resistor Corp 36-11 33 St Long Island City 6 NY	4-18-19-22-28-29- 31-32-38-40-43
HiQ Div Aerovox Corp Olean NY	20	Phaotron Instrument & Electronic Co 151 Pasadena Ave S Pasadena Calif	18-24	Telectro Industries Corp 35-18 37 St Long Island City 1 NY	2
Holland Electronics 772 E 63 St Brooklyn NY	3	Polarad Electronics Corp 43-20 34th St Long Island City NY	20	Teleradio Eng'g Corp Shannon & Barrett Sta Wilkes-Barre Pa	22
Howell Instrument Co 3101 Trinity St Ft Worth 7 Texas	7-13	Polytechnic Research & Development Co 202 Tillary St Brooklyn 1 NY	2-19-20	Television Corp 1415 Golf Rd Des Plaines Ill	44
Humphrey Inc 2805 Canon St San Diego Calif	11	Precision Inc 730 N Lyndale Ave Minneapolis 11 Minn	3-19-22-31-32-35	Tel-Labs Inc 1050 2 St Manchester NH	17-19-22-28-29-31-32-35-37
Industrial Instruments Inc 89 Commerce Rd Cedar Grove NJ	31	Precision Line Inc 63 Main St Maynard Mass	34-35-38-39-40-41-43-47-48	Telonic Industries Inc 73 N 2 Ave Beech Grove Ind	2
Instrument Resistors Co 1036 Commerce Ave Union NJ	17-22-25-26-31-35-37	Precision Resistor Co 109 U S Hwy 22 Hillside NJ	3-17-19-22-27-31-32-35-37	Tepro Electric Corp 5 St Paul St Rochester 4 NY	22-31-35
Insuline Corp of America 186 Granite St Manchester NH	44	Pyrofilm Resistor Co 11 S Highway 46 Passippany NJ	3-18-20-24-25-26-31	Texas Instruments Inc 6000 Lemmon Ave Dallas 9 Texas	18-19-20-26-31-32-35-37
International Resistance Co 401 N Broad St Philadelphia 8 Pa	31-32-38-39-40-46-47-48	Ram Meter Inc 1100 Hilton Rd Ferndale 20 Mich	3	Thale Eng'g Corp 2104 E Villa St Pasadena Calif	2
Jackson Electronics Inc 23 Woodcrest Rd West Chester Pa	22-32-34-40	Rahm Instruments Inc 237 Lafayette St New York 12 NY	5-7-11-14	Topp Industries Inc 8007 Wilshire Blvd Beverly Hills Calif	5-7-11
Javes P O Box 646 Redlands Calif	1	Rattray & Co George Div Hardwick Hindle Inc 116-08 Myrtle Ave Richmond Hills NJ	5-7-11-13	Transformers Inc 200 Stage Rd Vestal NY	22-25-26-27-31-35
Julie Research Labs 566 W 168 St New York 32 NY	1-2-3-22	Raymond Eng'g Lab Inc Smith St Middletown Conn	11	Tru-Ohm Products Div Model Eng'g & Mfg Co 2800 N Milwaukee Ave Chicago 18 Ill	22-23-32-38-40-41-42
Kay Electric Co 14 Maple Ave Pine Brook NJ	1-42	Rawson Electrical Instrument Co 116 Potter St Cambridge 42 Mass	11	Ultronic Inc 116 S Bayshore Blvd San Mateo Calif	3-14-19-22-31-32-35-37
Kelvin Electric Co 5807 Noble Ave Van Nuys Calif	19-22-31-32-35-37	RCL Mfg Co New Jersey Ave Riverside NJ	3-19-22-31-40	Union Switch & Signal Div 1789 1807 Braddock Ave Swissvale P O Pittsburgh 8 Pa	46
Key Resistor Corp 321 W Redondo Beach Blvd Gardena Calif	3-17-18-19-20-25-29-31-32-35	Reed & Reese Inc 717 N Lake Ave Pasadena 6 Calif	5-6-7-11-18	United Mineral & Chemical Corp 16 Hudson St New York 13 NY	1-2-4-18-20- 22-27-35-40-42-43
K-F Development Co 2606 Spring St Redwood City Calif	11-19-27-30-31-37-39-40			Victoreen Instrument Co 5806 Hough Ave Cleveland 8 Ohio	3-18-19-20-24-26-27-30-31
La Pointe Industries Inc 155 W Main St Rockville Conn	12-32			Victory Eng'g Co 121 Springfield Rd Union NJ	29-37-45-46
Leetrom Inc 5560 Northwest Hwy Chicago 30 Ill	22-23-26-28-32-38-40			Volta Mfg Co 2154 N Halsted St Chicago 14 Ill	31
Leeds & Northrup Co 3970 Stenton Ave Philadelphia 44 Pa	17-31				
Liton Industries Components Div 5873 Rodeo Rd Los Angeles 16 Calif	7-11				
Lux Clock Mfg Co Johnson St Waterbury Conn	23				

Vulcan Electric Co
88 Hollen St Danvers Mass 19
Ward Leonard Electric Co
Mt Vernon NY 22-25-26-28-32-40-42
Waters Mfg Inc
Boston Post Rd
Wayland Mass 7-11-12-13-14-38-39-40
Watlow Electric Mfg Co
1376 Ferguson Ave St Louis 14 Mo 41
Weinheil Eng'g
10503 Metropolitan Ave Kensington Md 2
Welch Scientific Co W M
1616 Sedgwick St Chicago 10 Ill 43
Welwyn Electrical Labs
Bedlington 3-4-7-12-14-18-19-20-22-24-25-
Northumberland England 27-29-31-38-40-42-47
Welwyn Int'l Inc 1-2-3-4-5-17-18-19-
3855 Edgecliff Terrace 20-22-25-26-27-28-29-
Cleveland 11 Ohio 31-32-35-38-40-41-42-46-47
West Coast Research Corp
2371 1/2 Westwood Blvd
Los Angeles 64 Calif 3
Westinghouse Electric Corp
P O Box 868 Pittsburgh 30 Pa 22-27-31
Westinghouse Electric Corp
Semiconductor Dept Youngwood Pa 45
Weston Electrical Instrument Corp
614 Frelinghuysen Ave Newark 12 NJ 31
Weymouth Instrument Co
1440 Commercial St Weymouth 89 Mass 17
White Dental Mfg Co S S Industrial Div
19 E 40 St New York 16 NY 21
White Instrument Labs
Box 9006 Ollandale Station
Austin 17 Texas 8
Williamson Development Co
317 Main St W Concord Mass 13
Wilrite Products Inc
3835 W 150th St
Cleveland 5 Ohio 18-19-20-26-31
Winslow Co
701 Lehigh Ave Union NJ 11-13-17-31-43
Wirt Co Continental Carbon Div
5221 Greene St
Philadelphia 44 Pa 31-38-39-40-41-44
Workman TV Inc
309 Queen Anne Rd
Tennessee NJ 21-22-23-27-29-35-37-45

80—SEALS

O-Rings 1
Rings, oil sealing 2
Rings, retaining 3
Rings, slip 4
Rings, slip & brush assemblies 5
Sealers, protective 6
Seals, carbon 7
Seals, hermetic 8
Seals, insulating 9
Seals, metal-to-glass 10
Seals, oil 11
Seals, shaft 12
Seals, switch 13

Adhesive Products Corp
1660 Boone Ave New York 60 NY 9-10
Advanced Products
42 Broadway North Haven Conn 1-2-11
Advanced Vacuum Products Inc
430 Fairfield Ave Stamford Conn 8-10
Aetna Felt Co
204 Centre St New York 13 NY 11
Airflyte Electronics Co
535 Avenue A Bayonne NJ 4-5
Airtone Inc
1108 W Elizabeth Ave Linden NJ 1
Allegheny Ludlum Steel Corp
Oliver Bldg Pittsburgh 22 Pa 10
American Lava Corp Subs Minn Mining & Mfg
Cherokee Blvd & Mfrs Rd
Chattanooga 5 Tenn 8-9-12
American Sealants Co
103 Woodbine St Hartford 6 Conn 8-10-11-12
Ampenol Electronics Corp
1830 S 54 Ave Chicago 50 Ill 8-10
Andrew Corp
363 E 76 St Chicago 19 Ill 1
Arrowhead Products
2300 Curry St Long Beach 1 Calif 4-11
Associated Eng'g & Mfg Corp
210 Stonehouse Rd Glen Ridge NJ 10
Auburn Mfg Co
Pease Ave & Stack St
Middletown Conn 1-2-9-13
Automatic Methods Inc
245 W Grand St Elizabeth NJ 2-3-4-5
Automatic & Precision Mfg Co
288 Hawthorne Ave Yonkers NY 1-11-12-13
Bacon Industries
192 Pleasant St Watertown 72 Mass 1
Becks Inc
298 E 5 St St Paul 1 Minn 4
Bell & Co
11 Ramab Circle Agawam Mass 12
Biggs Co Carl H
2255 Barry Ave
Los Angeles 64 Calif 6-8-9-10
Brilhart Plastics Corp
Old Country Rd Mineola NY 4
Buggie Inc H II
P O Box 817 Toledo 1 Ohio 12

Carborundum Co Globar Div
Hyde Park Blvd Niagara Falls NY 8-9-10
Carborundum Co Latrobe Plant
Refractories Div Latrobe Pa 8-9-10
Cartriseal Corp
3515 W Touhy Ave Chicago 45 Ill 2-7-11-12
Centralab Div Glove-Union Inc
900 E Keefe Ave Milwaukee 1 Wis 8-9
Ceramasal Inc
P O Box 25 New Lebanon Center NY 8
Ceramatronics Inc
364 Highland Ave Passaic NJ 8-9
Chicago Gasket Co
1271 W North Ave Chicago 22 Ill 1
Comar Products
Box 776 Butler NJ 1-9
Consolidated Electrodynamics Corp
Rochester Div
1775 Mt Read Blvd Rochester 4 NY 10
Consolidated Molded Products Corp
309 Cherry St Scranton 2 Penna 4
Constantin & Co L L
Route 46 Lodi NJ 8-10
Coors Porcelain Co
609 9th St Golden Colo 8-9
Corning Glass Works
Corning NY 10
Crane Packing Co
6400 Oakton St Morton Grove Ill 1-12
Dallons Labs
5066 Santa Monica Blvd
Los Angeles 25 Calif 10
Diamondite Products Mfg Co
1232 Cleveland Ave NW Canton Ohio 8
Dixon Corp
Burnside St Bristol RI 1
Du-Co Ceramics Co
Box 278 Saxenburg Pa 10-11
Eastman Pacific Co
2320 E St Los Angeles 21 Calif 8-10-13
Electrical Industrial
691 Central Ave Murray Hill NJ 8
Electrical Specialty Co
158 11 St San Francisco 3 Calif 1
Electro-Miniatures Corp
1060 Elm Ave Ridgefield NJ 4-5
Electro Tec Corp
4 Romanelli Ave S Hackensack NJ 4-5
Emerson & Cuming Inc
869 Washington St Canton 1 Mass 6-8-9
Emerson Plastics Corp
Seabury Ave & Butler Pl
Bronx 61 NY 1-8-9-11-12-13
Enflo Corp
Fellowship Rd Route 73
Maple Shade NJ 2-3-4-9-11-12-13
Engelhard Industries Inc
113 Astar St Newark NJ 4-5
Farnsworth Electric Co Pacific Div
415 S San Antonio Rd
Palo Alto Calif 8-9-10-13
Fasotec Div Ill Tool Works
195 Algonquin Rd Des Plaines Ill 8
Felt Products Mfg Co
1504 Carroll Ave Chicago 7 Ill 10-11
Fox Co Thomas T
95 Summit St Newark NJ 8-10
Fredericks Co Geo E
Bethayres
Frenchtown Porcelain Co
Frenchtown NJ 8-9
Fusite Corp
6000 Fernview Ave
Cincinnati 13 Ohio 8-9-10
Garde Mfg Co
588 Eddy St Providence 3 RI 6-9
Garlock Packing Co
402 Main St Palmyra NY 1-2-3-6-7-11-12
General Cable Corp
420 Lexington Ave New York 17 NY 1-6
General Ceramics Corp
Crows Mill Rd Keasbey NJ 8-9
General Findings & Supply Co
Industrial Div
Leach & Garner Bldg Attleboro Mass 4-5
General Hermetic Seals
99 E Hawthorne Ave Valley Stream NY 8
Glasseal Products Co
1111 E Elizabeth Ave Linden NJ 8-10
Glass Eng'g Labs Inc
601 O'Neill St Belmont Calif 10
Glass-Solder Eng'g
4232 Temple City Blvd
Rosemead Calif 8-9-10-13
Graphite Metallizing Corp
1002 Nepperhan Ave Yonkers NY 4-5-7-12
Gries Reproducer Corp
5 2nd St New Rochelle NY 9
Halogen Insulator & Seal Corp
10121 Franklin Ave Franklin Park Ill 1-2-12
Handy & Harman
82 Fulton St New York 38 NY 4
Heldor Mfg Corp
234 Lewis St Paterson NJ 8
Helwig Co
2550 N 30 St Milwaukee 10 Wis 7
Hermaseal Co
1010 N Main St Elkhart Ind 8-10
Hermetic Pacific Corp
4232 Temple City Blvd
Rosemead Calif 8-9-10-13
Hermetic Connector Corp
481 Washington St Newark 2 NJ 8-9-10
Hermetite Corp
702 Beacon St Boston 15 Mass 10
Highside Chemicals Inc
11 Colfax Ave Clifton NJ 11
Industrial Electrical Works
1509 Chicago St Omaha 2 Nebr 4-5
Instruments Inc
122 N Madison St Tulsa Okla 1

Intl Tele & Tele Corp Components Div
100 Kingsland Rd Clifton NJ 8-10
Isolantite Mfg Corp
Warren Ave Stirling NJ 8-9
Joclin Mfg Co
Lufberry Ave Wallingford Conn 8-9-11-12
Johns-Manville
22 E 40 St New York 16 NY 6-9-11
Kelley-Hayes Co
3600 Military Ave Detroit 32 Mich 4-5
Koppers Co
Koppers Bldg Pittsburgh 19 Pa
Kost Products Co
2335 N Cicero Ave Chicago 39 Ill 8
Larson Electronic Glass
P O Box 371 2425 El Camino Real
Redwood City Calif 10
Lee Chemical Corp Walter
1383 Seabury Ave & Butler Pl
Bronx 61 NY 1-2-8-9-11-12-13
Linear Inc
State Rd & Levick St
Philadelphia 35 Pa 1-8-9-11-12
Lunder Associates
694 Main St Waltham 54 Mass 8-9
Makepeace Div D E
Engelhard Industries Inc
Pine & Denham Sts Attleboro Mass 4-5
Mayfair Molded Products Corp
3700 N Rose St Schiller Park Ill 1-2
Mica Insulator Co
70 Broadway Schenectady 1 NY 9
Micromold Products Corp
1 School St Yonkers NY 1-5
Midland Paint & Varnish Co
3801 E 91 St Cleveland 5 Ohio 6
Minnesota Rubber & Gasket Co
3630 Wooddale Ave St Louis Park
Minn 1-9-11-12-13
Minn Rubber Co
Ackerman St Bloomfield NJ 1-2-5-9-11-12-13
Mitronics Inc
1290 Central Ave Hillside NJ 2
Molding Corp of America
58 Weybosset St Providence 3 RI 8
Morganite Inc
33-02 48 Ave Long Island City 1 NY 7
National Carbon Co
Div Union Carbide & Carbon Corp
30 E 42 St New York 17 NY 7
National Gasket & Washer Mfg Co
124 E 26 St New York 16 NY 1
National Lock Washer Co
40 Hermon St Newark 5 NJ 3
Neasil Products Div Rubber Associates
745 E Ave New York 23 NY 9-11-13-14
Network Mfg Corp
213 W 6 St Bayonne NJ 13
Networks Electronics Corp
14806 Oxnard St Van Nuys Calif 8-10
Newcomb Spring of Conn
510 Queen St Southington Conn 3
Ohio Carbon Co
12508 Berea Rd Cleveland 11 Ohio 7-12
Phila Scientific Glass Co
Box 46C Paletown Rd Quakertown Pa 8-13
Polymer Corp
220 Fairmont Ave Reading Pa 9
Radio Frequency Labs Inc
Brenton NJ 18
Raybestos-Manhattan Inc
61 Willet St Passaic NJ 1
Raybestos-Manhattan Inc
Plastic Products Div
Manheim Pa 1-2-6
Raytheon Mfg Co Ceramic Sales
Foundry Ave Waltham Mass 8-9-11
Raytheon Mfg Co Microwave & Power
Tube Operations
Foundry Ave Waltham Mass 8-9-11
Reid Enterprises
2610 E 47 St
Long Beach 5 Calif 1-2-3-4-11-12-13
Robertshaw-Fulton Controls Co
Fulton Sylphion Div
P O Box 400 Knoxville 1 Tenn 2-3-4-12
Roberts Toledo Rubber Co
4143 Monroe St Toledo 6 Ohio 1-2-11
Rogers Corp
Rogers Conn 1-9
Rubbercraft Corp of Calif
1800 W 220 St Torrance Calif 2-9
Rue Products
1628 Venice Blvd Venice Calif 1-2
St Marys Carbon Co
State St St Marys Pa 2-7-11-12
Sealor Corp
Warwick Industrial Park
Providence 5 RI 7-11-12
Seals Inc
165 S Fair Oaks Ave Pasadena Calif 8-10
Sealtron Corp
Reading Rd at Amity Cincinnati 15 Ohio 10
Shamban & Co W S
11517 W Jefferson Blvd
Culver City Calif 1-2-11
Silicone Seals Inc
3125 Milwaukee Ave Chicago 18 Ill 8-9
Slip Ring Co of America
3612 W Jefferson Blvd
Los Angeles 16 Calif 4-5
Sanneborn Soma L Bldg Prods Div
404 4 Ave New York 16 NY 10
Sparta Mfg Co
Dover Ohio 1-2-11-17
Spincraft Inc
4122 W State St Milwaukee 8 Wis 3
Stackpole Carbon Co
St Marys Pa 1-7
Strat-O-Seal Mfg Co
3038 W Fullerton Ave Chicago 47 Ill 8

Stupakoff Div Carborundum Co
Latrobe Pa 8-10

Swedlow Plastics Co
6256 Bandido Blvd Los Angeles 22 Calif 9

Syntron Co
263 Lexington Ave Homer City Pa 12

Techniques Inc
52 Jackson Ave Hackensack NJ 3

Telectro Industries Corp
35-18 37 St Long Island City 1 NY 4-5-8-12

Telegraph Construction & Maintenance Co Ltd
Mercury House Theobalds Rd
London W C 1 England 10

Telegraph Construction & Maintenance Co Ltd
Mercury House Theobalds Rd
London W C 1 England 10

Thermo Materials Inc
4040 Campbell Ave Menlo Park Calif 8

Thompson Products Inc
Ramsen Corp Sub
8693 Forest Park Blvd St Louis 8 Mo 3

Triad Transformer Corp
4055 Redwood Ave Venice Calif 8

Tri-Point Plastics Inc
175 I U Willets Rd Albertson LI NY 1

Trux Inc
Wheaton Ave Millvale NJ 7-10

United Aircraft Products Inc
1116 Bulander Ave Dayton 8 Ohio 1

U S Graphite Co Div Wlekes Corp
1621 Holland Ave
Saginaw Mich 2-3-4-5-7-11-12

U S Plastic Molding Corp
Carlton St Wallingford Conn 4-5

U S Rubber Co
1230 6 Ave New York 20 NY 1-2-3

Vibra Seal Corp
2432 E Grand Blvd
Detroit 11 Mich 1-2-3-11-12

Victory Mfg Corp
1722 W Arden Pl Chicago 12 Ill 1

Vitroreol Corp
P O Box 6048 709 E 106 St
Indianapolis 20 Ind 8-9-10-13

Waldorf Instrument Co
Div F C Huyck & Sons
Park Ave Huntington Station NY 2

Warren Plastics Corp Warren Pa 10

Welwyn Electrical Lab
Bedlington Northumberland England 8

Western Felt Works
4029 Ogden Ave Chicago Ill 1-2-3-11

Westinghouse Electric Corp
P O Box 965 Pittsburgh 30 Pa 10

Westlake Plastic Co
138 W Lenni Rd Lenni Mills Pa 1

Wheaton Co T C
Millville NJ 8-9-10

Wolfe Co F C Div Parker Appliance Co
10567 Jefferson Blvd Culver City Calif 8

Woodbury Glass Co
34 Burnside Ave E Hartford 8 Conn 10

Zapher Mills Inc
112 26 St Brooklyn 32 NY 9

Fansteel Metallurgical Corp
2200 Sheridan Rd N Chicago Ill 3-13

Federal Telecommunication Labs Div IT&T
500 Washington Ave Nutley NJ 10

Fretco
406 N Craig St
Pittsburgh 13 Pa 1-2-3-4-5-6-7-9-10-11-12-13-14-15

Gabagan Inc
Waterman Ave Esmond 17 RI 2

General Electric Co
Semiconductor Products Dept
1224 W Genesee St Syracuse NY 2-3-14-15

General Instrument Corp
65 Gouverneur St Newark NJ 2-3

General Transistor Corp
91-27 138 Place
Jamaica 35 NY 2-3-4-5-10-13-14

Hoffman Electronics Corp
3561 S Hill St
Los Angeles 7 Calif 3-10-12-15

Huffman Semiconductor Div
Huffman Electronics Corp
930 Pinner Ave Evanston Ill 3-12

Hughes Aircraft Co Semiconductor Div
Int'l Airport Station
Los Angeles 45 Calif 2-3-10-14-15

Hupp Electronics Co Div Hupp Corp
743 Circle Ave Forest Park Ill 5-12

Industra Transistor Corp
35-10 36th St Long Island City 6 NY 1-2

International Electronics Corp
91 Spring St New York 12 NY 1-4

International Rectifier Corp
1521 E Grand Ave El Segundo Calif 1-2-3-13

International Resistance Co
401 N Broad St Philadelphia 8 Pa 13

Int'l Tele & Tele Corp Components Div
100 Kingsland Rd Clifton NJ 13

Lansdale Tube Co Div Philco Corp
Church Rd Lansdale Pa 2-4-7-9-10-14-15

Minnesota Associates Inc
Huntington Mass 1-3

Minn-Honeywell Regulator Co
Semiconductor Products Division
2753 4 Ave
S Minneapolis 8 Minn 4-7-10-11-14

Motorola Inc Semiconductor Products Div
5005 E McDowell Rd
Phoenix Ariz 3-4-7-10-14

National Aircraft Corp Electronics Div
3411 Tulare Ave Burbank Calif 4

Nucleonic Products Co
1601 Grande Vista Ave
Los Angeles 23 Calif 2-7-12-14

Ohmit Mfg Co
3601 Howard St Skokie Ill 2

Pacific Semiconductors Inc
10451 W Jefferson Blvd
Culver City Calif 2-3

Phileo Corp
Tioga & C Sta
Philadelphia 24 Pa 1-2-4-7-9-10-14-15

RCA Semiconductor & Materials Div
Somerville N J 2-14

Radio Receptor Co
210 Wythe Ave Brooklyn 11 NY 2-3

Raytheon Mfg Co
Receiving & Tube Semiconductor Oper
55 Chapel St Newton 58 Mass 1-2-3-4-7-14-15

St. Eliot Corp
P O Box 607 Newtown Br
Cincinnati 14 Ohio 1-6

Sperry Gyroscope Co Semiconductor Div
Grent Neck NY 3-4-10-15

Sprague Electric Co
Marshall St North Adams Mass 6-8-10-14

Sylvania Electric Products Inc
1740 Broadway
New York 14 NY 1-2-3-4-6-7-9-10-12-14

Tarjian Inc Sarker
415 N College Ave Bloomington Ind 3-13

Texas Instruments Inc
6000 Lemmon Ave
Dallas 9 Texas 3-4-8-7-10-11-14-15

Transitron Electronic Corp
168 Albion St
Wakefield Mass 2-3-4-7-10-14-15

Trans-Sil Corp
55 Honeck St
Englewood NJ 1-3-4-5-7-10-11-13-15

U S Dynamics Corp
1250 Columbus Ave Boston 20 Mass 1-2-3

U S Semiconductor Products
3536 W Osborn Rd P O Box 11125
Phoenix Ariz 1-3

Vickers Inc Electric Products Div
1887 Locust St St Louis 3 Mo 13

Westinghouse Electric Corp
P O Box 868
Pittsburgh 30 Pa 2-3-4-7-15-11-15

Westinghouse Electric Corp
Semiconductor Dept
Youngwood Pa 3-4-7-10-14-15

Libraries, magnetic tape 11

Libraries, record 12

News services 13

Optical repairs 14

Recording services 15

Sound dubbing 16

Sound effects 17

Sound studios 18

Stylus resharpening 19

Tower erection & maintenance 20

TV program packages 21

TV props & scenery 22

TV special effects 23

TV slides 24

Transcriptions 25

Acme Industrial Co
200-222 N Larkin St Chicago 7 Ill 14

Acus Pictures Corp
165 W 46 St New York 36 NY 7

Affiliated Photographic Co
21 W 45 St New York 36 NY 24

Alexander Film Co
Alexander Film Itdgc
Colorado Springs Colo 6

Allen-Moore Products
7936 Santa Monica Blvd
Hollywood 46 Calif 6

American Communications Corp
220 Broadway New York 17 NY 2

Apple Frequency Measuring Service H L
409 Union Ave Burlington NC 8

Atlas Film Corp
1111 S Blvd Oak Park Ill 7-24

Audio-Video Recording Co
730 5 Ave
New York 10 NY 1-2-11-15-16-17-18-25

Becker Productions V S
551 5 Ave New York 17 NY 1-7-21-25

Bennett & Co Paul
230 E Ohio St Chicago 11 Ill 19

Boulevard Recording Studio
632 N Dearborn St
Chicago 4 Ill 15-16-17-18-25

Bray Studios Inc
729 7 Ave New York 19 NY 6

Bryg Inc
Butler Pa 5-6-7-9-21

Buhl Optical Co
1009 Heech Ave Pittsburgh 33 Pa 14

Burke & James Inc
367 W Wabash Ave Chicago 4 Ill 5-14

Burnett Radio Lab W W L
4814 Idaho St San Diego 16 Calif 8

Busa-Clement-Dougherty & Associates
201 B Studio Hill
Chester Springs Pa 16-17-18-21-23-24

Capitol Transcription Service
1120-A Conn Ave
N W Washington 6 DC 1-2-3-6-7-13-15-16-17-18-21-25

Centaur Studios
7657 Melrose Ave
Hollywood 46 Calif 6-7-11-13-15-21

Chromatic Television Laboratories
1501 Broadway New York 36 NY 9

Collurn Lab G W
164 N Wacker Dr
Chicago 6 Ill 2-3-4-5-6-7-9-10-13-16-17-18-21

Commercial Radio Sound Corp
652 1 Ave New York 16 NY 2

Commercial Telecast Networks Inc
609 5th Ave New York 20 NY 7-21

Cook Labs
101 2 St Stamford Conn 15

Dallons Labs
5066 Santa Monica Blvd
Los Angeles 29 Calif 23

Damon Recording Studios
117 W 14 St
Kansas City 5 Mo 15-16-17-18-25

Deppour Studios Inc
782 Commonwealth Ave
Boston 15 Mass 3-4-5-6-7-9-12-13-15-16-17-18-21-24

de Rochemont Associates Inc Louis
380 Madison Ave New York 17 NY 6-21

Dresser-Ideco Co
875 Michigan Ave Columbus 8 Ohio 2-8

Dunlap Electronics
764 9 St Des Moines 14 Iowa 2-10

Eidson Electronic Co
1902 N 3 St Temple Texas 8

Electrical Tower Service Inc
325 S Washington St Peoria Ill 20

Electro Sound Corp
115 Halleck St
Boston 15 Mass 2-11-12-15-16-25

Engineering Associates
434 Patterson Rd Dayton 9 Ohio 8

Eprad Co
1206 Cherry St Toledo 4 Ohio 1-2-8-18

Felthousen Audio Service
15609 Chatsworth St Granada Hills Calif 2

Filmack Studios
1327 S Wabash Ave
Chicago 5 Ill 3-5-6-7-15-18-24

Film Arts Productions
1032 N 6 St
Milwaukee 3 Wis 3-5-6-15-16-17-18-24

Film Associates
4600 S Dixie Hwy
Dayton 9 Ohio 3-5-6-7-9-12-16-17-18-25

Photo-Video Labs Inc
25 Amity St Little Falls NJ 24

81—SEMI-CONDUCTORS

Diodes, germanium 2

Diodes, photosensitive 12

Diodes, silicon 3

Diodes, selenium 13

Transistors, junction 4

Transistors, photo 5

Transistors, point contact 6

Transistors, power 7

Transistors, germanium 14

Transistors, silicon 15

Transistors, surface-barrier 9

Transistors, switching 10

Transistors, tetrode 11

Ampex Electronic Corp
230 Duffy Ave
Hicksville LI NY 1-2-4-7-10-14

American Elite Inc
7 Park Ave New York 16 NY 2

Avnet Electronic Supply Co
36 N Moore St New York 13 NY 7

Bondix Aviation Corp Red Bank Div
Rt 35 Eatontown NJ 3-7-10-14

Bondix Aviation Corp
1104 Fisher Bldg Detroit 2 Mich 7-14

Bogue Electric Mfg Co
62 Iowa Ave Paterson 3 NJ 2-3-7-13-14-15

Bomac Labs Inc
Salem Rd Beverly Mass 8

Bradley Labs Inc
163 Columbus Ave New Haven Conn 3-13

CHR-Hytron Div Columbia Broadcasting System
100 Endicott St
Danvers Mass 1-2-3-4-6-7-10-14-15

CHR-Hytron Semiconductor Div
800 Chelmsford St
Lowell Mass 1-2-3-4-7-10-14

Clelite Transistor Products
241 Crescent St
Waltham 54 Mass 1-2-3-7-10-14

Clowes Ceramic Corp
3711 Calhoun Ave Chattanooga 7 Tenn 3

Dulco Radio Div GMC
700 Firmin St Kokomo Ind 7-14

Engineered Electronics Co
506 E 1 St Santa Ana Calif 2-3-14-15

82—SERVICES, BROADCAST

AM program packages 1

Audio design & service 2

Film, editing & titling 3

Film, magnetic strips 4

Film processing 5

Film studios 6

Film, TV 7

Frequency measuring 8

Kinescopy 9

Libraries, film 10

Frederick Recording Co
101 Townsend St
Midland Mich 15-16-17-18-25

Gates Radio Co
123 Hampshire St Quincy Ill 20

Gordon Enterprises
5362 N Cahuenza Blvd
N Hollywood Calif 3-4-5-6-7-14-15

Handel Film Corp
6926 Melrose Ave Hollywood 38 Calif 3-5

Hartley Productions Inc
339 E 48 St
New York 17 NY 6-7-15-16-18-21-24

Holland Electronics
72 E 53 St Brooklyn NY 2

Houston Fearless Div Color Corp of America
11801 W Olympic Blvd
Los Angeles 64 Calif 6

Ken-del Productions
920 King St
Wilmington 1 Dela 12-15-16-17-18-25

Langevin Mfg Corp
4747 Auziel Pl Long Island City 1 NY 1

Loucke & Marling
414 W 54th St New York 19 NY 24

Magnecord Div Midwestern Instruments Inc
1101 S Kilbourne Ave Chicago 24 Ill 11

Magnetic Amplifiers Inc
632 Tinton Ave New York 55 NY 23

Magnetic Sound Inc
1403 Grand Ave Des Moines Iowa 15

Magne-Tronica Inc
49 W 45th St New York NY 11

Michigan Electronics Inc
854 N Rockwell St
Chicago 22 Ill 15-16-18

Next Service Service
509 Madison Ave New York 22 NY 8

Neal Productions S
475 E Ave New York 17 NY 6

National Cine Equipment Inc
209 W 48 St New York 36 NY 14

Northern Eng'g Labs
332 Wilmet Ave Burlington Wisc

Northwest Motion Pictures
1716 30 Ave W Seattle 99 Wash 6

Oberline Inc
P O Box 921 Beverly Hills Calif 1-2

Pacific Universal Products Corp
163 Vista Ave Pasadena 4 Calif 14-15

Packaged Programs Inc
634 Penn Ave
Pittsburgh 22 Pa 1-3-5-6-7-13-15-16-17-18-21-22-24-25

Phelps Precision Lab
4232 Scott Terrace
Minneapolis 16 Minn 8

Philco Corp Govt & Industrial Div
1700 Wissahickon Ave
Philadelphia 44 Pa 2

Presto Recording Corp
Box 500 Paramus NJ 19

Pye Canada Ltd
62 Northline Rd
Toronto 16 Ontario Canada 2-20

Reeves Soundcraft Corp
10 E 52 St New York 22 NY 4-19

Science Pictures Inc
5 E 57 St New York 22 NY 3-6-7-15-21-24

Scott Recording Lab
Municipal Airport
Tuscaloosa Ala 15-18

Sellers Co
2102 Jackson St
Dallas 1 Tex 15-16-17-18-25

Shrader Sound Inc
2803 M St N W Washington 7 DC 2

Smith Assoc Inc Rawdon
1726 20 St N W Washington 9 DC 15-16-18

Sun Dial Films
341 E 43 St New York NY 6

Telechrome Mfg Corp
28 Ranick Dr Amityville LI NY 9

Telectro Industries Corp
35-18 37 St Long Island City 1 NY 15

Telemated Cartoons
70 E 45 St New York 17 NY 3-6-23

Telex Corp
1515 N Western Ave
Hollywood 27 Calif 6-7-15-16-18

Tower Builders Co
Box 366 Angola Ind 20

Transfilm Inc
35 W 45 St
New York 36 NY 3-4-5-6-7-15-16-17-18-24

TV Specialty Co
350 W 31 St New York 1 NY 9-23

U S Recording Co
1347 S Capitol St
Washington 5 DC 3-15-16-17-18

Wayne Productions Les
3407 E Bayley Wichita 17 Kan 1-15-16-25

Western Electro Acoustic Lab Inc
11789 San Vicente Blvd
Los Angeles 49 Calif 2

Westing Electronics Inc
590 Tuckahoe Rd Yonkers NY 2-15

West Michigan Sound Co
1932 Peck St Muskegon Mich 2-15

Westrex Corp
111 8 Ave New York 11 NY 6-16-18-18

Willard Pictures Inc
85 W 45 St New York 36 NY 3-4-6-7-15-21-24

Williams Recording Service Ash
2625 O St Lincoln 8 Nebr 1-15-16-25

Wind Turbine Co
E Market St & P R W West Chester Pa 20

Wolff Studios Inc Raphael G
5631 Hollywood Blvd
Hollywood 28 Calif 6-7-10-21-24

83—SERVICES, INDUSTRIAL

Aerial surveys	1
Aircraft maintenance	2
Assembly	3
Brazing	4
Carrier current maintenance	5
Computer service	6
Construction	7
Electrical testing	8
Electronic equipment repairs	9
Encapsulation	10
Engraving & profiling	11
Fabrication, metal parts	12
Fabrication, non-metal parts	13
Frequency calibration	14
Heat treating	15
Hermetic sealing	16
Inspection	17
Marine maintenance	18
Marking	19
Metal finishing	20
Microwave calibrating	21
Microwave relay maintenance	22
Military systems engineering	23
Optical repairs	24
Packaging	25
Plating, metal on plastic	26
Plating, precious metal	27
Police, fire, municipal maintenance	28
Qualification testing	29
Soldering	30
Test equipment repairs	31
Testing	32
Tinning, hot dipped	33
Treating, fungus & moisture proof	34
Welding	35

Ahalon Precision Mfg Corp
540 Casanova St
New York 59 NY 12-13-35

Accurate Sheet Metal & Mfg Works
2336 Milwaukee Ave Chicago 47 Ill 12-13

Acme Industrial Co
200-222 N Laflin St
Chicago 7 Ill 3-12-13-17-23-24-31

Acme Mfg & Gasket Co
788 N 41 St Philadelphia 4 Pa 12-13

Acromark Co
309 Morrell St Elizabeth NJ 11-19

Acton Laboratories
533 Main St Acton Mass 32

Adapt Mfg Co
14300 Lorain Ave Cleveland 11 Ohio 12

Advanced Electronics Inc
94 Silas Deane Hwy
Rocky Hill 9 Conn 3-4-12-13

Advantage Industries Inc
640 Memorial Dr Cambridge 39 Mass 23

Aeroflex Labs
34-06 Skillman Ave
Long Island City 1 NY 1-8-23-29-32

Aerolite Electronics Corp
2207 Summit Ave
Union City NJ 3-10-12-13

Aerophysys Dev Corp Sub
Curtiss-Wright Corp P O Box 689
Santa Barbara Calif 6-23

Aerotest Laboratories
129-11 18 Ave College Point 56 NY 29-32

Ainslie Corp
312 Quincey Ave Quincy 69 Mass 35

Airborne Accessories Corp
1414 Chestnut Ave Hillside 5 NJ 23

Aircorn Inc
139 E 1st St Roselle NJ 3-4-12-21-30-35

Aircraft & Electronic Specialties
22 S Green St Brownsburg Ind 9-11

Airflo Instrument Co
53 Addison Rd Glastonbury Conn 3-4-35

Airlyte Electronics Co
535 Avenue A Bayonne NJ 3-4

Air Reduction Sales Co Div Air Reduction Co
150 E 42 St New York 17 NY 85

Airtronics Inc
5522 Darsey Lane Bethesda Md 10

Airtron Inc
1108 W Elizabeth Ave Linden NJ 21

Alex Instruments Inc
17 Industrial Ave Little Ferry NJ 32

Allied Eng'g & Production Corp
2421 Rindling Ave Alameda Calif 30

Alloy Metalsmiths Inc
89 Commerce Rd Cedar Grove NJ 12-35

Allied Fabricating Corp
1538 N Clybourn Ave Chicago 10 Ill 12-35

Alto Scientific Co
855 Commercial St Palo Alto Calif 3-8-23-27

American Aluminum Co
230 Sheffield St
Mountainside Union NJ 12-20

American Electrical Heater Co
6110 Cass Ave Detroit 2 Mich 80

American Electronic Laboratories
121 N 7 St Philadelphia 6 Pa 8-29

American Gas Furnace Co
140 Spring St Elizabeth 1 NJ 4-15-30

American Laubacher Co
250 W 57 St New York 19 NY 12

American Lava Corp Subs
Minn Mining & Mfg
Cherokee Blvd & Mfra Rd
Chattanooga 5 Tenn 13

American Machine & Foundry Co
Defense Products Group 1101 N Royal St
Alexandria Va 12-15-20-21-23-25

American Machine & Foundry Co
Electronics Div 1085 Commonwealth Ave
Boston 15 Mass 23

American Rectifier Corp
35 Lafayette St New York 18 NY 3-7-8-9

American Silver Co
3807 Princes St
Flushing 34 NY 12-27

Anchor Metal Co
966 Meeker Ave Brooklyn 22 NY 3-27-30-33

Aneor Specialty Mfg Co
300 Hollister Rd Teterboro NJ 3-12-31

Andromeda Inc
3742 Howard Ave Kensington Md 23

Applied Precision Measuring Service II L
409 Union Ave Burlington NC 14

Arcan Eastern Ltd
P O Box 158 Sta C
Hamilton Ont Canada 12-35

Arch Instrument Co
191 Holmes St N Quincy Mass 8

Aries Labs Inc
45-33 Davis St
Long Island City 1 NY 10-25-34

Arnoux Corp
11924 W Washington Blvd
Los Angeles 36 Calif 23

Arrowhead Products
2300 Curry St Long Beach 1 Calif 12-13

Arrow Tool Co Inc
36 Mill St Wethersfield Conn 12-13

Art Decorating Co
4201 Hudson Blvd N Bergen NJ 18

Artisan Mval Works Co
1140 Madison Ave Cleveland 7 Ohio 15-35

Arves Corp Fibre Forming Div
202 Franklin St Olean NY 25

Associated Missile Products
Sub American Mch & Fdry
3709 N Garvey Ave Pomona Calif 23-25

Associated Research Inc
W Belmont Ave Chicago 18 Ill 8-32

Associated Testing Labs
109 Clinton Rd Caldwell NJ 6-17-29-32

Atlas E-E Corp
47 Prospect St Woburn Mass 11

Audicon Electronics Inc
215 Lyon St
Paterson 4 NJ 8-8-10-17-29-31-32-34

Audio Electronics
1858 35 Ave N E Seattle 35 Wash 5-9

Austin Co Special Devices Div
78 9 Ave New York 11 NY 4-7-23

Auto Electronics Co
P O Box 225 Linden NJ 12-16

Automatic Methods Inc
965 W Grand St
Elizabeth NJ 3-4-12-17-19-30-35

Automation Instruments Inc
Industrial Pk Boulder Colo 22

Auto Test Inc
600 S Michigan Ave Chicago 5 Ill 3-12-14

Aven Mfg Corp Crusley Div
1329 Arlington St
Cincinnati 25 Ohio 2-23

Avion Div ACF Industries Inc
11 Park Pl Paramus NJ
Avalonia Ltd P O Box 200
Niagara-On-The-Lake
Ontario Canada 23-26-27-30-31

Babeock Radio Eng'g Inc
7942 Woodley Ave Van Nuys Calif 23

Barb & Co Simon
306 Greenwich St New York 14 NY 15

Bacon Industries
182 Pleasant St
Watertown 72 Mass 10-18

Baker & Co
113 Astor St Newark 2 NJ 27

Barber & Howard Co
East Ave Westerly RI 11-18-23

Barker & Williamson Inc
Canal & Heaver Sta
Bristol Pa 25-26-27-29-31-32-34-35

Barkley & Dexter Laboratories
50 Frankfort St
Fitchburg Mass 3-8-9-31-25-32

Barlowe Television
402 N Wantagh Ave Bethpage NY 9

Barnett Instrument Co
Kraft St Clarksville Tenn 9-31

Barnes & Ruincke
230 E Ohio St Chicago 11 Ill 8-23-32

Bart Mfg Corp
227 Main St Belleville NJ 26-27

Belfab Corp
11 Ramoth Circle Agawam Mass 35

Bennett Mfg Co
Railroad St Alden NY 12

Berkshire Labs
686 Bank Village Greenville NH 8

Berno Engineering Corp
2520 S Tibbs Ave
Indianapolis 41 Ind 3-1-10-12-30-35

Bigelow Metallizing Chemicals Co
88 Bigelow St Quincy 69 Mass 26

Biggs Co Carl H
2255 Barry Ave Los Angeles 64 Calif 10-16

Bjorkner Research Labs For Industry
P O Box 1175 Madison 1 Wisc 26

Hlickman Inc 201 Gregory Ave Weehawken NJ	12	Continental Can Co Inc 100 E 42nd St New York 17 NY	25	Electro Physics Co 297 Broadway New York 7 NY	3-8-9-32
Hodnar Industries 238 Huqueont St New Rochelle NY	32	Continental-Diamond Fibre Corp Newark Del	13	Electro Sound Corp 118 Hallock St Boston 15 Mass	5-9
Holling Industries Inc 117 N Main Ave P O Box 991 Scranton 2 Pa	3-11-20-25	Control Circuits Inc 103 Court St Middletown Conn	3-10-23	Ellanar Chemical Co 2308 Oakton St Evanston Ill	10
Houston Molding Co 326 Myrtle Ave Houton NJ	10	Control Data Corp 501 Park Ave Minneapolis 15 Minn	3-6	Elm Labs 10 Washington Ave Hastings-on-Hudson NY	12-13
Hooth Co Arthur E 285 S Alexandria Ave Los Angeles 4 Calif	8	Controlled Atmosphere Enclosures Corp 230-11 141 Ave Springfield Gardens LI NY	13-16	El-Tronics Inc Penn Ave Mayfield Pa	3-12-13
Hram Metallurgical-Chemical Div 420 65 Ave Philadelphia 26 Pa	12	Cook Electric Co 2700 Southport Ave Chicago 14 Ill	8-29-32	Elzee Metal Products Co 775 39 St Brooklyn 32 NY	3-4-11-12-13-35
Hraun Tool & Instrument Co Inc H 110 Fifth Ave Hawthorne NJ	12	Cook Research Labs P O Box 696 Menlo Park Calif	12	Emerson Plastics Corp Seabury Ave & Butler Pl Bronx 61 NY	10-13
Brilhart Plastics Corp Old Country Rd Mineola NY	13	Corbin Corp 6419 56th Place Riverdale Md	7-23	Emerson-Sack-Warner Corp 85 Washington St Somerville 43 Mass	3-4-7-12-30
Briggs Associates 10 DeKalb St Norristown Pa	8-9	Croname Inc 3701 Ravenwood Ave Chicago 13 Ill	3-12-20-30-35	Empire Electronics Co 166 River St Paterson 1 NJ	3
Bron-Shoe Co 269 E Broad St Columbus 15 Ohio	26-27	Crown Engineering 3821 Commercial NE Albuquerque NM	7	Enlo Corp Fellowship Rd Route 73 Maple Shade NJ	13
Bruks & Perkins Inc 1860 W Fort St Detroit 38 Mich	3-12-15-20-23-27-35	Cubic Corp 6575 Kearney Villa Rd San Diego 11 Calif	32	Engineered Electronics Co 506 E 1 St Santa Ana Calif	25
Burke & Jones Inc 321 S Wabash Ave Chicago 4 Ill	24	Daco Instrument Co Tillary & Prince Sts Brooklyn 1 NY	12-23	Engineering Associates 434 Patterson Rd Dayton 9 Ohio	7-8-9-14-21-31-32
Burnett Radio Lab W W L 4814 Idaho St San Diego 16 Calif	8-9-14-31	Dale Products Inc P O Box 136 Columbus Nebr	3-10-16	Epoxy Products Div Jos Waldman & Sons 133 Conit St Irvington NJ	13
Burr Optical Co 1009 Beech Ave Pittsburgh 33 Pa	24	Dallona Labs 5066 Santa Monica Blvd Los Angeles 29 Calif	14	Eprad Co 1206 Cherry St Toledo 4 Ohio	3-8-9-12-13-14
Burke & Jones Inc 321 S Wabash Ave Chicago 4 Ill	24	Data Processing Corp 460 Cambridge Ave Palo Alto Calif	6	Epco Inc 588 Commonwealth Ave Boston 15 Mass	29
Burnett Radio Lab W W L 4814 Idaho St San Diego 16 Calif	8-9-14-31	Dayson Co Route 10 Livingston NJ	3-8-10	Equipment and Service Co 7118 Envoy Ct Dallas 35 Texas	6-9-81
Burr Optical Co 1009 Beech Ave Pittsburgh 33 Pa	24	Daystrom-Weston Industries Div Daystrom Inc 753 Main St Poughkeepsie NY	12-16-20	Ercora Corp 551 Fifth Ave New York 17 NY	24
Burke & Jones Inc 321 S Wabash Ave Chicago 4 Ill	24	Decatur Electronic Industries Corp 203 Orinco Dr Brightwaters LI NY	12	Erie Resistor Corp 644 W 12 St Erie 6 Pa	25-26
Burnett Radio Lab W W L 4814 Idaho St San Diego 16 Calif	8-9-14-31	Deming-Honardi Corp 780 S Arroyo Pkwy Pasadena Calif	21	ESC Corp 634 Bergen Blvd Palisades Park NJ	10
Burr Optical Co 1009 Beech Ave Pittsburgh 33 Pa	24	Demuth Glass Works Inc P O Box 629 Parkerburg W Va	13	Eugene Eng'g Co 1217 Hyde Park Ave Boston 36 Mass	12
Burke & Jones Inc 321 S Wabash Ave Chicago 4 Ill	24	Denard Mfg Co 310 W Woodard St Denison Texas	81	Ewald Instruments Route 7D Kent Conn	35
Burnett Radio Lab W W L 4814 Idaho St San Diego 16 Calif	8-9-14-31	Deringer Metallurgical Corp 8131 Monticello Ave Skokie Ill	12-27	E-Z Way Towers Inc 5901 E Broadway Tampa 5 Fla	12
Burke & Jones Inc 321 S Wabash Ave Chicago 4 Ill	24	DeWitt Development Co 3008 W 127 St Blue Island Ill	1	Fairchild Camera and Instrument Corp Robbins La Syusset NY	1
Burnett Radio Lab W W L 4814 Idaho St San Diego 16 Calif	8-9-14-31	Dietzen Co Eugene 2425 N Sheffield Ave Chicago Ill	19	Falstrom Co Falstrom Court Passaic NJ	12
Burr Optical Co 1009 Beech Ave Pittsburgh 33 Pa	24	Digitronics Corp Albertson Ave Albertson LI NY	6	Farnsworth Electronics Co Div I T & T 3702 E Pontiac St Ft Wayne Ind	23
Burke & Jones Inc 321 S Wabash Ave Chicago 4 Ill	24	Dit-Mec Inc Electronics Div 911 Broadway Kansas City Mo	8-23-29-32	Farrelly Co 1243 N 26 St Phila Pa	30
Burnett Radio Lab W W L 4814 Idaho St San Diego 16 Calif	8-9-14-31	Dittmore-Freimuth Corp 2517 E Norwich St Milwaukee 7 Wisc	3-4-6-12-15-16-20-25-30-35	Federal Cable Div Royal Electric Corp 95 Grand Ave Pawtucket RI	29
Burr Optical Co 1009 Beech Ave Pittsburgh 33 Pa	24	Dobson Anautical Electronic Labs Tobghanna Penna	3-7	Federal Machine Co 435 Garfield Ave Jersey City 5 NJ	12-13-35
Burke & Jones Inc 321 S Wabash Ave Chicago 4 Ill	24	Douglas Instrument Labs 176 Norfolk Ave Boston 19 Mass	9-31	Feiler Eng'g & Mfg Co 8026 N Monticello Ave Skokie Ill	3-6-8-23
Burnett Radio Lab W W L 4814 Idaho St San Diego 16 Calif	8-9-14-31	Douglas Radio Labs 176 Norfolk Ave Boston 19 Mass	9-31	Felsinthal & Sons Inc G 3500 N Kedzie Ave Chicago 18 Ill	19-26
Burr Optical Co 1009 Beech Ave Pittsburgh 33 Pa	24	Doven Mach & Eng'g Inc 2706 W Van Buren St Chicago 12 Ill	3-4-7-12-35	Fidelity Amplifier Co 1633 N Halsted St Chicago 14 Ill	3
Burke & Jones Inc 321 S Wabash Ave Chicago 4 Ill	24	Dow-Key Co P O Box 57 Warren Minn	27	Filtrom Co 10023 W Jefferson Blvd Culver City Calif	29
Burnett Radio Lab W W L 4814 Idaho St San Diego 16 Calif	8-9-14-31	Downing Crystal Co 191 Shaffer Ave Westminster Md	12	First Electronics Corp 117 Blue Hill Ave Boston 19 Mass	3-10-30
Burr Optical Co 1009 Beech Ave Pittsburgh 33 Pa	24	Dunlap Electronics 764 9 St Des Moines 14 Iowa	7-9-12-13-14-23-27-30-31	Fisher & Cromie 109 N Camac St Phila 7 Pa	11-13-19
Burke & Jones Inc 321 S Wabash Ave Chicago 4 Ill	24	Dunn Eng'g Associates 225 O'Brien Hwy Cambridge 39 Mass	23-25	Five Star Co W Main St Plantsville Conn	7
Burnett Radio Lab W W L 4814 Idaho St San Diego 16 Calif	8-9-14-31	Dwyer Eng'g Co Pine St Ext Naasua NH	28	Flock Process Co 375 Main Ave Norwalk Conn	20
Burr Optical Co 1009 Beech Ave Pittsburgh 33 Pa	24	Dynalab Development Labs Inc 11941 Wilshire Blvd Los Angeles 25 Calif	6	Fluidyne Eng'g Corp 425 N 7 St Minneapolis 6 Minn	23-32
Burke & Jones Inc 321 S Wabash Ave Chicago 4 Ill	24	Dynamic Instrument Corp 69 New York Ave Westbury NY	3-4	Fluorocarbon Products Inc Div U S Gasket Co 802 N 10 St Camden 1 NJ	3-10
Burnett Radio Lab W W L 4814 Idaho St San Diego 16 Calif	8-9-14-31	Dynatron Inc 717 W Amelia Ave Orlando Fla	23	Foot Bros Gear & Machine Corp 4645 S. Western Blvd Chicago 9 Ill	12
Burr Optical Co 1009 Beech Ave Pittsburgh 33 Pa	24	Dynex Inc 777 Dynes Dr Pewaukee Wisc	12	Fourdes Inc 704 W Fairbanks Ave Winter Park Fla	12-13
Burke & Jones Inc 321 S Wabash Ave Chicago 4 Ill	24	Eagle Signal Corp 202 20 St Moline Ill	3	Fox Co Thomas T 95 Summit St Newark NJ	16-27
Burnett Radio Lab W W L 4814 Idaho St San Diego 16 Calif	8-9-14-31	Elcor Inc P O Box 354 McLean Va Electrical Testing Labs Inc 2 East End Ave New York 21 NY	8-14-17-21-29-32	Fredericks Co Geo E Bethayres Pa	3-13
Burr Optical Co 1009 Beech Ave Pittsburgh 33 Pa	24	Electrochemical Industries Inc 35 Armorey St Worcester 3 Mass	26-27	Frenchtown Porcelain Co Frenchtown NJ	3-4-16
Burke & Jones Inc 321 S Wabash Ave Chicago 4 Ill	24	Electro Coatings Inc 1662 W Fullerton Ave Chicago 14 Ill	26-27	Frequency Standards Inc P O Box 504 Asbury Park NJ	14-21
Burnett Radio Lab W W L 4814 Idaho St San Diego 16 Calif	8-9-14-31	Electro-Etch Circuits Inc 3140 W Florence Ave Los Angeles 43 Calif	12	Fuel Watchman Inc 77-29 138 St Flushing 67 NY	8-9
Burr Optical Co 1009 Beech Ave Pittsburgh 33 Pa	24	Electro-Fabricators 44 Beaton Pl Pasadena Calif	12	Garde Mfg Co 588 Eddy St Providence 3 RI	12-13-16
Burke & Jones Inc 321 S Wabash Ave Chicago 4 Ill	24	Electronic Assembly Co 8 Prescott St Roxbury 19 Mass	3-7-10-25-30	Gar Precision Parts Inc 703 Pacific St Stamford Conn	12
Burnett Radio Lab W W L 4814 Idaho St San Diego 16 Calif	8-9-14-31	Electronic Associates Inc Long Branch NJ	6-31	Gates Electronics Co 2090 Barnum Ave Bronx 62 NY	31
Burr Optical Co 1009 Beech Ave Pittsburgh 33 Pa	24	Electronic Brasing Co 140 Glenridge Ave Montclair NJ	4-30	Gates Radio Co 123 Hampshire St Quincy Ill	9-12-13-14-17-30-34
Burke & Jones Inc 321 S Wabash Ave Chicago 4 Ill	24	Electronica Eng'g Co of Calif 1601 E Chestnut St Santa Ana Calif	23	Gemex Corp 1200 Commerce Ave Union NJ	4-12-30
Burnett Radio Lab W W L 4814 Idaho St San Diego 16 Calif	8-9-14-31	Electronic Production & Development 138 Nevada St El Segundo Calif	8-9-12-13-16-19-30-31-32	General American Transportation Corp 135 S LaSalle St Chicago 90 Ill	26
Burr Optical Co 1009 Beech Ave Pittsburgh 33 Pa	24	Electro Physics Co 297 Broadway New York 7 NY	3-8-9-32	General Bronze Corp 711 Stewart Ave Garden City NY	3-4-7-8-12-20-21-23-35
Burke & Jones Inc 321 S Wabash Ave Chicago 4 Ill	24	Electro Sound Corp 118 Hallock St Boston 15 Mass	5-9	General Components Inc 225 E 144 St Bronx 81 NY	12-13
Burnett Radio Lab W W L 4814 Idaho St San Diego 16 Calif	8-9-14-31	Ellanar Chemical Co 2308 Oakton St Evanston Ill	10	General Electric Co Computer Dept 1103 N Central Ave Phoenix Ariz	6
Burr Optical Co 1009 Beech Ave Pittsburgh 33 Pa	24	Elm Labs 10 Washington Ave Hastings-on-Hudson NY	12-13	General Findings & Supply Co Industrial Div Leach & Garner Bldg Attleboro Mass	3-4-12-20-27-30-35
Burke & Jones Inc 321 S Wabash Ave Chicago 4 Ill	24	El-Tronics Inc Penn Ave Mayfield Pa	3-12-13	General Kinetics Inc 555 23 St S Arlington 2 Va	6
Burnett Radio Lab W W L 4814 Idaho St San Diego 16 Calif	8-9-14-31	Elzee Metal Products Co 775 39 St Brooklyn 32 NY	3-4-11-12-13-35		
Burr Optical Co 1009 Beech Ave Pittsburgh 33 Pa	24	Emerson Plastics Corp Seabury Ave & Butler Pl Bronx 61 NY	10-13		
Burke & Jones Inc 321 S Wabash Ave Chicago 4 Ill	24	Emerson-Sack-Warner Corp 85 Washington St Somerville 43 Mass	3-4-7-12-30		
Burnett Radio Lab W W L 4814 Idaho St San Diego 16 Calif	8-9-14-31	Empire Electronics Co 166 River St Paterson 1 NJ	3		
Burr Optical Co 1009 Beech Ave Pittsburgh 33 Pa	24	Enlo Corp Fellowship Rd Route 73 Maple Shade NJ	13		
Burke & Jones Inc 321 S Wabash Ave Chicago 4 Ill	24	Engineered Electronics Co 506 E 1 St Santa Ana Calif	25		
Burnett Radio Lab W W L 4814 Idaho St San Diego 16 Calif	8-9-14-31	Engineering Associates 434 Patterson Rd Dayton 9 Ohio	7-8-9-14-21-31-32		
Burr Optical Co 1009 Beech Ave Pittsburgh 33 Pa	24	Epoxy Products Div Jos Waldman & Sons 133 Conit St Irvington NJ	13		
Burke & Jones Inc 321 S Wabash Ave Chicago 4 Ill	24	Eprad Co 1206 Cherry St Toledo 4 Ohio	3-8-9-12-13-14		
Burnett Radio Lab W W L 4814 Idaho St San Diego 16 Calif	8-9-14-31	Epco Inc 588 Commonwealth Ave Boston 15 Mass	29		
Burr Optical Co 1009 Beech Ave Pittsburgh 33 Pa	24	Equipment and Service Co 7118 Envoy Ct Dallas 35 Texas	6-9-81		
Burke & Jones Inc 321 S Wabash Ave Chicago 4 Ill	24	Ercora Corp 551 Fifth Ave New York 17 NY	24		
Burnett Radio Lab W W L 4814 Idaho St San Diego 16 Calif	8-9-14-31	Erie Resistor Corp 644 W 12 St Erie 6 Pa	25-26		
Burr Optical Co 1009 Beech Ave Pittsburgh 33 Pa	24	ESC Corp 634 Bergen Blvd Palisades Park NJ	10		
Burke & Jones Inc 321 S Wabash Ave Chicago 4 Ill	24	Eugene Eng'g Co 1217 Hyde Park Ave Boston 36 Mass	12		
Burnett Radio Lab W W L 4814 Idaho St San Diego 16 Calif	8-9-14-31	Ewald Instruments Route 7D Kent Conn	35		
Burr Optical Co 1009 Beech Ave Pittsburgh 33 Pa	24	E-Z Way Towers Inc 5901 E Broadway Tampa 5 Fla	12		
Burke & Jones Inc 321 S Wabash Ave Chicago 4 Ill	24	Fairchild Camera and Instrument Corp Robbins La Syusset NY	1		
Burnett Radio Lab W W L 4814 Idaho St San Diego 16 Calif	8-9-14-31	Falstrom Co Falstrom Court Passaic NJ	12		
Burr Optical Co 1009 Beech Ave Pittsburgh 33 Pa	24	Farnsworth Electronics Co Div I T & T 3702 E Pontiac St Ft Wayne Ind	23		
Burke & Jones Inc 321 S Wabash Ave Chicago 4 Ill	24	Farrelly Co 1243 N 26 St Phila Pa	30		
Burnett Radio Lab W W L 4814 Idaho St San Diego 16 Calif	8-9-14-31	Federal Cable Div Royal Electric Corp 95 Grand Ave Pawtucket RI	29		
Burr Optical Co 1009 Beech Ave Pittsburgh 33 Pa	24	Federal Machine Co 435 Garfield Ave Jersey City 5 NJ	12-13-35		
Burke & Jones Inc 321 S Wabash Ave Chicago 4 Ill	24	Feiler Eng'g & Mfg Co 8026 N Monticello Ave Skokie Ill	3-6-8-23		
Burnett Radio Lab W W L 4814 Idaho St San Diego 16 Calif	8-9-14-31	Felsinthal & Sons Inc G 3500 N Kedzie Ave Chicago 18 Ill	19-26		
Burr Optical Co 1009 Beech Ave Pittsburgh 33 Pa	24	Fidelity Amplifier Co 1633 N Halsted St Chicago 14 Ill	3		
Burke & Jones Inc 321 S Wabash Ave Chicago 4 Ill	24	Filtrom Co 10023 W Jefferson Blvd Culver City Calif	29		
Burnett Radio Lab W W L 4814 Idaho St San Diego 16 Calif	8-9-14-31	First Electronics Corp 117 Blue Hill Ave Boston 19 Mass	3-10-30		
Burr Optical Co 1009 Beech Ave Pittsburgh 33 Pa	24	Fisher & Cromie 109 N Camac St Phila 7 Pa	11-13-19		
Burke & Jones Inc 321 S Wabash Ave Chicago 4 Ill	24	Five Star Co W Main St Plantsville Conn	7		
Burnett Radio Lab W W L 4814 Idaho St San Diego 16 Calif	8-9-14-31	Flock Process Co 375 Main Ave Norwalk Conn	20		
Burr Optical Co 1009 Beech Ave Pittsburgh 33 Pa	24	Fluidyne Eng'g Corp 425 N 7 St Minneapolis 6 Minn	23-32		
Burke & Jones Inc 321 S Wabash Ave Chicago 4 Ill	24	Fluorocarbon Products Inc Div U S Gasket Co 802 N 10 St Camden 1 NJ	3-10		
Burnett Radio Lab W W L 4814 Idaho St San Diego 16 Calif	8-9-14-31	Foot Bros Gear & Machine Corp 4645 S. Western Blvd Chicago 9 Ill	12		
Burr Optical Co 1009 Beech Ave Pittsburgh 33 Pa	24	Fourdes Inc 704 W Fairbanks Ave Winter Park Fla	12-13		
Burke & Jones Inc 321 S Wabash Ave Chicago 4 Ill	24	Fox Co Thomas T 95 Summit St Newark NJ	16-27		
Burnett Radio Lab W W L 4814 Idaho St San Diego 16 Calif	8-9-14-31	Fredericks Co Geo E Bethayres Pa	3-13		
Burr Optical Co 1009 Beech Ave Pittsburgh 33 Pa	24	Frenchtown Porcelain Co Frenchtown NJ	3-4-16		
Burke & Jones Inc 321 S Wabash Ave Chicago 4 Ill	24	Frequency Standards Inc P O Box 504 Asbury Park NJ	14-21		
Burnett Radio Lab W W L 4814 Idaho St San Diego 16 Calif	8-9-14-31	Fuel Watchman Inc 77-29 138 St Flushing 67 NY	8-9		
Burr Optical Co 1009 Beech Ave Pittsburgh 33 Pa	24	Garde Mfg Co 588 Eddy St Providence 3 RI	12-13-16		
Burke & Jones Inc 321 S Wabash Ave Chicago 4 Ill	24	Gar Precision Parts Inc 703 Pacific St Stamford Conn	12		
Burnett Radio Lab W W L 4814 Idaho St San Diego 16 Calif	8-9-14-31	Gates Electronics Co 2090 Barnum Ave Bronx 62 NY	31		
Burr Optical Co 1009 Beech Ave Pittsburgh 33 Pa	24	Gates Radio Co 123 Hampshire St Quincy Ill	9-12-13-14-17-30-34		
Burke & Jones Inc 321 S Wabash Ave Chicago 4 Ill	24	Gemex Corp 1200 Commerce Ave Union NJ	4-12-30		
Burnett Radio Lab W W L 4814 Idaho St San Diego 16 Calif	8-9-14-31	General American Transportation Corp 135 S LaSalle St Chicago 90 Ill	26		
Burr Optical Co 1009 Beech Ave Pittsburgh 33 Pa	24	General Bronze Corp 711 Stewart Ave Garden City NY	3-4-7-8-12-20-21-23-35		
Burke & Jones Inc 321 S Wabash Ave Chicago 4 Ill	24	General Components Inc 225 E 144 St Bronx 81 NY	12-13		
Burnett Radio Lab W W L 4814 Idaho St San Diego 16 Calif	8-9-14-31	General Electric Co Computer Dept 1103 N Central Ave Phoenix Ariz	6		
Burr Optical Co 1009 Beech Ave Pittsburgh 33 Pa	24	General Findings & Supply Co Industrial Div Leach & Garner Bldg Attleboro Mass	3-4-12-20-27-30-35		
Burke & Jones Inc 321 S Wabash Ave Chicago 4 Ill	24	General Kinetics Inc 555 23 St S Arlington 2 Va	6		

General Metal Products Co 1010 Centre St Easton Pa	12	Ivanhoe Electronic Labs 1423 S La Salle St Chicago 27 Ill	9-14-28-31	Master Engraving Studios 135 Liberty St New York 6 NY	11
General Mills Inc Mechanical Div 1520 Central Ave Minneapolis 13 Minn	3-12-13-23	Jacksonville Metals Plastics Co 875 Dara St Jacksonville Fla	12-13	Masterite Industries Inc 835 W Olive St Inglewood Calif	12
General Plastics Corp 165 2 Ave Paterson 4 NJ	13-19	Jacobs Instrument Co 4718 Bethesda Ave Bethesda 14 Md	10-23	Mathis Co G E 6100 S Oak Park Ave Chicago 88 Ill	7-12-85
General Precision Lab Inc 21 N Santa Anita Ave Pasadena 8 Calif	9-31	James Plating Works Inc 1609 N Elston Ave Chicago 14 Ill	20-27	Matthews & Co Jas 3942 Forbes St Pittsburgh 13 Pa	19
General Testing Labs 227 W Chestnut Ave Monrovia Calif	8-17-29-32	Jefferson Electronic Products Corp 322 State St Santa Barbara Calif	30	Mayer Eng'g Co Frank 6412 Santa Monica Blvd Los Angeles 38 Calif	29-85
Geotechnical Corp 3712 Haggard Dr Dallas 9 Texas	9-12-23	Juclin Mfg Co Lufberry Ave Wallingford Conn	13	Measurement Eng'g Ltd 232 John St Arnripport Ontario Can	9-12-20-31-35
Gerrardi Co A J 1950 Hawthorne Ave Melrose Park Ill	25	Judee Plastics Co 213 Shepherd Ave Brooklyn 8 NY	3-10-11-13	Mechanics Inc Westport Conn	23
Gillilan Bros 1815 Venice Blvd Los Angeles 8 Calif	23	Johnson Aircraft Eng'g Co Geophysical Services Div P O Box 10 Morristown NJ	10-23	Mercast Mfg Corp 2020 1 St La Verne Calif	12
Glass & Bro Harry H 10 Van Cortlandt Ave E New York 68 NY	11-12-13-19	Kahn & Co 541 Windsor St Hartford 1 Conn	31	Merit Plating Co 218 E 141 St New York 51 NY	27
Glass Eng'g Labs Inc 601 O'Neill St Belmont Calif	13	Kaiser Aircraft & Electronics Corp Toledo Electronics Div P O Box 437 Toledo Ohio	8-32	Metz Eng'g Inc 200 S Harding St Indianapolis Ind	12
Glass-Solder Eng'g 4232 Temple City Blvd Rosemead Calif	4-16-30-33	Kees Mfg Co F D 700 Park St Beatrice Nebr	16-20-35	Metal-Craft Inc Burruss Pl Wayne NJ	3-4-12-35
Gleason-Avery Inc 45 Aurelius Ave Auburn NY	11	Kelley & Co O G 98 Taylor St Boston 22 Mass	12	Metal Fabricators Corp 63 Pond St Waltham 64 Mass	8-4-12-85
Globe Electrical Mfg Co 1729 W 184 St Gardena Calif	11	Kelsey-Hayes Co 3600 Military Ave Detroit 32 Mich	3-4-10-12-13-15- 20-25-30-33-35	Metal Finishing Service 711 W Root St Chicago 9 Ill	20
Goe Eng'g Co 219 S Mednik Ave Los Angeles 22 Calif	12	Kent Lighting Corp 500 Johnson Ave Brooklyn 37 NY	12	Metal Forging Corp 873 Van Sinderen Ave Brooklyn 7 NY	12
Golden Co 1054 38 St Brooklyn 19 NY	12	Keystone Electronics Corp 49 Bleeker St New York 12 NY	12-18	Metaplast Corp Davisville Rd at Pa Turnpike Hatboro Pa	10
Good Electronics Corp 17-19 Brooks St Newton 58 Mass	9-26-27	King Electric Equipment Co 9123 Inman Ave Cleveland 5 Ohio	3-9	Metronix Inc Mill Lane Waterford Conn	3
Gordon Enterprises 5362 N Cabuenga Blvd N Hollywood Calif	9-11-12-13-17-24-31-32	Kinn Electronics Corp 4104 Pinkney Rd Baltimore 15 Md	3-4-7-12-13-20-23-25-30-35	M F Electronics Co 122 E 25 St New York 10 NY	10
Gould Corp Jerome F 200 Stewart Ave Brooklyn 37 NY	25	Kinney Mfg Div Vacuum Equip Div N Y Air Brake Co 3529 Washington St Boston 30 Mass	26-27	Mica Corp 4031 Elenda St Culver City Calif	11-12
Granger Associates 9968 Commercial St Palo Alto Calif	23	Kling Metal Spinning & Stamping Co 245 Centre St New York 13 NY	12-30	Micarta Fabricators Inc 5324 N Ravenswood Ave Chicago 40 Ill	11-13-30
Green Rectifier Co 1-10 18 St Fairlawn NJ	3-4-8-12-26-32-35	Koch & Sons H Hwy 101 Corte Madera Calif	25	Mico Instrument Co 40 Trowbridge St Cambridge 38 Mass	11
Greer Hydraulics Inc NYInt'l Airport Jamaica 80 NY	3-4-12-13	Krengel Mfg Co 227 Fulton St New York 7 NY	10	Mid-Century Instrumental Corp 611 Broadway New York 12 NY	6
Guild Electronics Inc 388 Broadway New York 13 NY	9	Kulite Turbine Co 1040 Hoyt Ave Ridgefield NJ	4-16	Mid-West Conveyor Co Metal Products Div 7 & Sunshine Rd Kansas City 15 Kan	3-4-7-12-18-20-35
Hallamore Electronics Co 8352 Brookhurst Ave Anaheim Calif	23-29	Kurz-Kasch Inc 1421 S Broadway Dayton 1 Ohio	13	Milco Electronic Corp 7601 N W 37 Ave Miami 47 Fla	6
Hallett Mfg Co 5910 Bowcraft St Los Angeles Calif	3-4-30	Kuss Industries Inc Tacony & Lewis Sta Philadelphia 24 Pa	8-4-12-35	Milwaukee Stamping Co 800 S 72 St Milwaukee 14 Wisc	8-4-20-35
Hamilton Watch Co Allied Products Div Columbia Ave Lancaster Pa	3-11-12-15-20-27	K-W Eng'g W 15920 Pin Oak Ct Butler Wisc	8-12	Minn-Honeywell Regulator Co Aeronautical Div 2600 Ridgeway Ave Minneapolis 13 Minn	9-23
Handy & Harmon 8625 Medford St Los Angeles 68 Calif	4-12	Laboratory For Electronics Inc 75 Pitts St Boston 14 Mass	8-7-9-31	Miltronics Inc P O Box 716 Melbourne Fla	8-23-25
Harpur-Leader Inc 1046 S Main St Waterbury 20 Conn	20-27	La Moree C D 2433 Birkdale St Los Angeles 31 Calif	18	Mitchell Industries Inc Municipal A P Co PO Box 17 Mineral Wells Texas	80
Hauman Instruments Co 70 Coolidge Hill Rd Watertown 72 Mass	3-7-80	Land-Air Inc 744 W Wilson Ave Chicago 31 Ill	2-3-5-6-8-9-17-22- 23-24-27-28-29-31	Mitronics Inc 1290 Central Ave Hillside NJ	4-10-16
Havag Industries Inc 900 Greenbank Rd Wilmington 8 Dela	18	Leaer Inc 110 Inonia Ave N W Grand Rapids 2 Mich	23	Mohawk Mfg Co P O Box 1110 Middletown Conn	12
Heinrich Co Inc 711 Concord Ave Cambridge 38 Mass	12-13	Lenkurt Electric Co 1105 County Rd San Carlos Calif	5-22-23	Molded Insulation Co 335 E Price St Philadelphia 40 Pa	10-13
Heldor Mfg Corp 238 Lewis St Paterson NJ	12-16-30	Lennard Co Inc P M 1061 E 8 St Jacksonville 6 Fla	11-12-13	Moran Instrument Corp 170 E Orange Grove Ave Pasadena 3 Calif	1-8-9-12-13-14-23
Henry & Miller Industries Inc 675 Garfield Ave Jersey City 6 NJ	8-4-12-13-20-27-33-35	Lepel High Frequency Labs 54-18 37 Ave Woodside 77 NY	4-15-20	Motograph Inc 4441 W Lake St Chicago 24 Ill	8-12
Hermes Plastics Inc 13-19 University Pl New York 3 NY	11-14	Lestershire Spool Div National Vulcanized Fibre Co 140 Baldwin St Johnson City NY	13	Mundt & Sons Charles 63 Fairmount Ave Jersey City 4 NJ	12
Hermetic Pacific Corp 4232 Temple City Blvd Rosemead Calif	4-16-30-33	Levey Labs Harold A 8127 Oleander St New Orleans 18 La	82	Mutual Electronics Industries Inc 60 Aleppo St Providence RI	8
Hett Associates 603 Grand Ave Englewood NJ	7-23	Lindberg Eng'g Co 2450 W Hubbard St Chicago 12 Ill	12	Mytron Mfg Co 4522 Brazil St Los Angeles 39 Calif	9
Hildebrand John Co 45 Brighton St Belmont 78 Mass	10-13	Link-Radio Corp 110 Jericho Tpke New Hyde Park LI NY	23-29	Nagata Associates Inc Littleton Mass	9
Hitchiner Mfg Co Inc P O Box 232 Milford NH	12	Liton Industries of Calif 336 N Foothill Rd Beverly Hills Calif	3-10-16-23-30-32-34	National Cine Equipment Inc 209 W 48 St New York 36 NY	24
Holland Electronics 772 E 53 St Brooklyn NY	7-8-23	Liton Industries of Md Inc 4910 Calvert Rd College Park Md	3-12-23	National Company Inc 61 Sherman St Malden 48 Mass	82
Hoover Electronics Co 112 W Timonium Rd Timonium Md	23	Long Inc Thomas J 215 Stonehenge Lane Carle Place LI NY	18	National Fabricated Products Div Hoffman Electronics Corp 2650 W Belden Ave Chicago 47 Ill	12-13
Horizons Inc 2905 E 79 St Cleveland Ohio	32	Lorain County Radio Corp 203 9th St Lorain Ohio	18	National Instrument Labs Inc 6108 Rhode Island Ave Riverdale Md	81
Houghton Laboratories Inc 322 Houghton Ave Olean NY	10-13	Lovens Inc H K 391 W Broadway New York 12 NY	3-12-35	National Metallizing Corp Du Pont Circle Blvd Washington 6 DC	20
Howard Crystal Holders Inc 2600 Grand Ave Kansas City 8 Mo	13	Lubron Rubber Co 51 Kelvin St Everett 49 Mass	13	National Scientific Labs Inc 2010 Massachusetts Ave N W Washington 6 DC	22-28-82
Identification Service Corp 144 W 48 St New York 36 NY	16	Lytell Eng'g & Mfg Co 1404 San Mateo Blvd SE Albuquerque New Mexico	12-23	National Spectrographic Labs Inc 6300 Euclid Ave Cleveland 8 Ohio	17-32
Industrial Electronics Inc 8060 Wheeler St Detroit 10 Mich	9	Magna Electronics Co 9810 Anza Ave Inglewood 1 Calif	3-12	National Tel-Tronics Corp 52 St Casimir Ave Yonkers NY	13
Industrial Engravers Inc 2212 McDonald Ave Brooklyn 28 NY	11	Magnaflex Corp 7800 W Lawrence Ave Chicago 31 Ill	17-82	National Vacuum Platers Inc 2633 E Hazel St Phila 25 Penna	20-26
Inertia Switch 527 Lexington Ave New York 17 NY	23	Magnesium Products of Milwaukee Inc 748 W Virginia St Milwaukee 4 Wisc	85	National Vulcanized Fibre Co P O Box 311 Wilmington 99 Dela	13
Inland Electronics Corp 500 Rathbone Ave Aurora Ill	3-12	Magnetic Amplifiers Inc 632 Tinton Ave New York 85 NY	29-32	Nevada Air Products Co P O Box 2472 Reno Nev	2-16-23-35
Instrument Labs 315 W Walton Pl Chicago 10 Ill	8-31-82	Maigne Co O J 323 Pearl St New York 85 NY	19	Newcomb Spring Corp 177 E Hawthorne Ave Yonkers N Y	8-12
Insulating Fabricators Inc 150 Union Ave E Rutherford NJ	13	Mander Mfg Co 2608 W 16 St Chicago 8 Ill	10-12-13	New York Coil Co 40 2 Ave Phoenixville Pa	10
Insulation Mfg Corp 655 W Washington Blvd Chicago 39 Ill	18	Masonite Corp 111 W Washington St Chicago 2 Ill	13	New York Testing Laboratories Inc 47 West St New York 6 NY	8-9-14-17-82
Insuline Corp of America 186 Granite St Manchester NH	3-12-13-20-30-35			Nevo Co J M P O Box 390 Hartford 1 Conn	19
Interference Measurement Lab Inc 907 E 51 St Brooklyn 3 NY	29-32			Nichols Products Co 325 W Main St Moorestown NJ	12-13-30
Int'l Business Machines 588 Madison Ave New York 22 NY	8			Nichols & Clark Inc 321 Newburyport Turnpike Danvers Mass	8-4-7-8-12-13-30-35
Int'l Pump & Machine Works 81 Dorsia Ave Livingston NJ	39			Nilsen Mfg Co 21 N Church St Addison Ill	12
Investment Casting Co 60 Brown Ave Springfield NJ	12				

Nilson Electrical Laboratory Inc 103 Lafayette St New York 13 NY	31-32	Product Eng'g Labs Co Inc 555 Central Ave Orange NJ	25	Silicone Insulation Inc Seabury Ave & Butler Pl Bronx 61 NY 10-13	
Norricks Plastics Corp 107 W 18th St New York 16 NY	12-13	PSC Applied Research Ltd 1500 O'Connor Dr Toronto 16 Ont Canada 29		Simmonds Aerocessaries Inc Verginnes Vt	3-8-29-32
Northeast Electronics Corp Airport Rd Concord NH	8	Pye Canada Ltd 82 Northline Rd Toronto 16 Ontario Canada	9-31	Sinclair Mfg Co S Worcester St Charlter Mass	3-4-12-13-30-33
North Electric Co 553 S Market St Galion Ohio	3	Pye Telecommunications Ltd Newmarket Rd Cambridge England	18-22-28	Skatron Electronics & TV Corp 180 Varick St New York 14 NY	23
Northern Eng'g Labs 372 Wilmot Ave Burlington Wisc	9-14	Q O S Corp Bronx Blvd at 216 St New York 67 NY	3-12-13	Slaughter Co Young and College Sts Piqua 9 Ohio	3
Northern Plastics Corp 2nd Market St Lacrosse Wis	13-15-26-34	Quality Control Corp 401 Broadway New York 13 NY	17-31	Slip Ring Co of America 3612 W Jefferson Blvd Low Angeles 16 Calif	27
Nuclear Development Corp of America 5 New St White Plains NY	7	Radiation Inc P O Box 37 Melbourne Fla	8-9-23	Smith-Mecker Eng'g Co 157 Chambers St New York 7 NY	2-9-18-23
Nuclear-Electronics Corp 2632 W Cumberland St Philadelphia 32 Pa	3-11-12-23-30-32	Radio City Products Co Centre & Glendale Sts Easton Pa	23	Sorensen Industrial Electronic Co Route 10 Dover NJ	3-12
Nuclear Products-Erco Div ACF Industries Inc Riverdale Md	12-23	Radio Eng'g Co 8 State St New York 4 NY	3-6-7-8-9-14-17-29-31-32	Soroban Eng'g Inc P O Box 1717 Melbourne Fla	6
Nuclear Systems Div Budd Co 2450 Hunting Park Ave Philadelphia 32 Pa	10	Rayco Electronic Mfg Inc 11116 Cumpston St N Hollywood Calif	10	Southern Plastics Co 408 Pendleton SC	13
Nukem Products Corp 111 Colgate Ave Buffalo 20 NY	7	Raytheon Mfg Co Ceramic Sales Foundry Ave Waltham Mass	13-16	South River Metal Products Co 377 Turnpike South River NJ	12
Nureco Inc 1100 Pontiac Ave Cranston 10 RI	10-34	Raytheon Mfg Co Microwave & Power Tube Operations Foundry Ave Waltham Mass	16	Southwest Products Inc Alamo Downs Rt 4 San Antonio Tex	31
Ny-Glass Inc 2501 E 68 St Long Beach Calif	13	Regency Div Idea Inc 7900 Pendleton Pike Indianapolis 26 Ind	3	Southwestern Industrial Electronics Co 2831 Post Oak Rd Houston 19 Texas	9-10-12-16-17-23-25-30-31-32
NVT Electronics Corp 2979 N Ontario St Burbank Calif	10	Reid Enterprises 2610 E 67 St Long Beach 8 Calif	13	Sparta Mfg Co Dover Ohio	13
O'Brien Electric Corp 8514 Santa Monica Blvd Hollywood 38 Calif	3-7-12	Remler Co 2101 Bryant St San Francisco Calif	12-13	Spaulding Fibre Co Inc 1325 San Julian St Los Angeles 15 Calif	12-13
Oiljak Mfg Co 18 Depot Sq Montclair NJ	3-4-12-13-20-30-32-35	Republic Aviation Corp Farmingsdale L I New York	2-3-7-8-9-12-13-15-17-21-23-25-29-30-31-32-35	Specialty Automatic Machine Corp 50 Cambridge St Burlington Mass	3-12
Omega Labs Inc Haverhill St Rowley Mass	12	Resdel Eng'g Corp 330 S Fair Oaks Ave Pasadena Calif	3-7-23	Speedassembly Equipment Co Box 344 Fords NJ	3
Opad Electric Co 69 Murray St New York 7 NY	3-8-9-32-34	Research Development Mfg Inc 429 E Collom St Philadelphia 41 Pa	12-13	Sperry Gyroscope Co Sunnyvale Dev Center 294 Commercial St Sunnyvale Calif	23
Optimized Devices Inc Box 3H Gedney Sta White Plains NY	32	Research Industrial Lab of Electronics Roslyn Pa	9	Sperry Gyroscope Co Microwave Electronics Div Great Neck NY	23
Opto Eng'g Co 3524 W Washington Blvd Los Angeles 18 Calif	24	Reynolds Metals Co P O Box 2346-ZF Richmond 18 Va	12-20-35	Spincraft Inc 4122 W State St Milwaukee 8 Wisc	12
Orange Products Inc 554 Mitchell St Orange NJ	8	Rho Eng Co 2242 Sepulveda Blvd Los Angeles Calif	10	Stackbin Corp 1079 Main St Pawtucket RI	3-12
O & S Research Inc 1811 Hannard St Riverton NJ	12-24	Rich Electronics Inc 212 NW 8 Ave Miami 36 Fla	9-13-18-23-31-32-34	Standard Electromagnetics Inc 43-45 Carroll St Frederick Md	16
Pacific Technical Co 2047 Sawtelle Blvd Los Angeles 25 Calif	7-9	Richardson Co 27 Ave & Lake St Melrose Park Ill	13	Standard Electronics Research Corp 2 E End Ave New York 21 NY	14-20
Pacific Universal Products Corp 168 Vista Ave Pasadena 8 Calif	24	Rieser & Theismacher Co 1626 W 25 St Cleveland 13 Ohio	12-35	Standard Instruments P O Box 11556 Dallas 18 Tex	9-81
Packard Bell Electronics Corp 12333 W Olympic Blvd Los Angeles 64 Calif	6-23-29	Riverbank Labs Eng'g Dept P O Box 65 Geneva Ill	14	Standard Metals Corp 262 Broad St N Attleboro Mass	15-27
Palmer Inc M V 4002 Fruit Valley Rd Vancouver Wash	5-22	Roberts Mfg Co 426 E Shaffer Cleburne Texas	3	Standard Screw Co 2701 Washington Blvd Bellwood Ill	3-4-15-20-25
Parameters Inc 195 Herricks Rd New Hyde Park NY	8-17-23-29-32	Rockwell Co W S 220 Eliot St Fairfield Conn	12	Staver Co 41-51 N Saxon Ave Bay Shore LI NY	12
Par Products Corp 602 Colorado Ave Santa Monica Calif	11-12	Rogers Corp Rogers Conn	13	Steel Protection & Chemical Co Bridge St Mooresville Ind	20-27-33
Parsons Co Ralph M Electronics Div 151 S De Laey Ave Pasadena Calif	23	Romar Plastics Inc 1311 E Main St St Charles Ill	13	Stokes Molded Products Div Electric Storage Battery Co Trenton 4 NJ 10	
Pastushin Industries Inc 11221 Hindry Ave Los Angeles 45 Calif	2-12-15-29-35	Rototest Labs Inc 2803 Los Flores Blvd Lynwood Calif	8-32	Suffolk Products Corp Woodbine & Scudder Ave Northport NY	3-11-12-20
Patent Hutten Co P O Box 710 Waterbury 20 Conn	20	Rowe Industries 1702 Wayne St Toledo 9 Ohio	3	Sun Electric Corp Harlem & Avondale Ave Chicago 31 Ill 8-32	
Paul & Beekman 1801 W Courland St Philadelphia 40 Pa	3-12-13-15-20-30-33-35	Rubbercraft Corp of Calif 1800 W 220 St Torrance Calif	18	Suwanon Co V H 556 Elm St Arlington N J	13
Pedersen Electronics 3667A Mt Diablo Blvd Lafayette Calif	12	Rue Products 1628 Venice Blvd Venice Calif	8-10-29-31-32	Sylvania Electric Products Co Electric Systems Div 100 First Ave Waltham 54 Mass	3-23
Peerless Eng'g Products Co 30-81 21st Long Island City 2 NY	12-14	Saine Equipment Lab Harry T Rt 8 Box 407 E Main Ave Morgan Hill Calif	9	Sylvania Electric Products Inc Parts Div 12 2nd Ave Warren Pa	12-13
Peerless Products Industries 812 N Pulaski Rd Chicago 51 Ill	3-11-12-13-19	St Eliot Corp P O Box 807 Newtown Br Cincinnati 44 Ohio	8-11-26-27-32-34	Synthane Corp Montgomery Ave Oaks Pa	
Penco Metal Products Div Alan Wood Steel Co Oaks Pa	12	St John X-Ray Lab Califon NJ	17-29-32	Taller & Cooper 75 Front St Brooklyn 1 NY	10
Penn-Eaat Eng'g Corp Box 240 Kutztown Pa	8-12	Sampson Chemical & Pigment Corp 2880 W Lake St Chicago 12 Ill	19-20	Tatnal Measuring Systems Co P O Box 245 Phoenixville Pa	32
Perkin-Elmer Corp Main Ave Newalk Conn	23	Saratoga Industries Congress & Ballston Aves	3-8-10-12-16-17-20-29-31-32-34-35	Taylor Fibre Co Box 471 Norristown Pa	13
Peschel Electronics Inc 13 Garden St New Rochelle NY	8-9-32	Saratoga Plastics Inc N Walpole NH	10	Technical Material Corp 700 Fenimore Rd Mamaroneck NY	23
Peter Partition Corp 124 Boerum Pl Brooklyn 1 NY	25	Sargeant & Wilbur Heat Treating Corp 170 York Ave Pawtucket RI	20	Technical Oil Tool Corp 1067 N La Brea Los Angeles 38 Calif	21-31-32
Petroff Corp Peter A 127 Water St New York 5 NY	3-4-12-20-23-30	Schaffer Air Industries 230 N Prospect Ave Westbury NY	3-12-31	Technicraft Labs Inc Thomaston-Waterbury Rd Thomaston Conn	4-21
Phelps Precision Lab 4232 Scott Terrace Minneapolis 16 Minn	14	Scott Recording Lab Municipal Airport Tuscaloosa Ala	9-31	Techniques Inc 52 Jackson Ave Hackensack NJ	11-12-19-33
Philo Corp Tioga & C Sts Philadelphia 24 Pa	22	Seavill Mfg Co 99 Mill St Waterbury 20 Conn	12	Teiner Co Inc Roland 134 Tremont St Everett 49 Mass	12
Philo Corp Govt & Industrial Div 4700 Wissahickon Ave Philadelphia 44 Pa	5-6-7-9-22-23	Seals Inc 165 S Fair Oaks Ave Pasadena Calif	4-16	Telecommunications Inc 41 E 42 St New York NY	7
Pittsburgh Plate Glass Co 1 Gateway Center Pittsburgh 22 Pa	20	Semcom 6200 E 41 St Tulsa 1 Okla	3-12	Telectro Industries Corp 35-18 37 St Long Island City 1 NY 10-16-31	
Planet Plating Co Inc 494 Morgan Ave Brooklyn 22 NY	20-26-27	Sensory Inc 10 New St Morristown NJ	8-12-13	Tele-Dynamics Inc 61st & Parkside Ave Phila 4 Pa	23-23
Plastic Accessories Inc 91 Mercer St New York 12 NY	13	Servomechanisms Inc 1200 Prospect Ave Westbury NY	23	Telegraph Construction & Maintenance Co Ltd Mercury House Theobalds Rd London W C 1 England	20-25-35
Plastics & Electronics Corp P O Box 8 Station J Buffalo 8 NY	28	Shamban & Co W S 11617 W Jefferson Blvd Culver City Calif	13	Teletronic Labs Inc 1835 W Rosecrans Ave Gardena Calif	19
Positive Lock Washer Co Avenue A & Miller St Newark 5 NJ	15	Sheltered Workshop 2521 5th St Santa Monica Calif	3-8-12-13-17-19-25-30-32-33	Telex 1633 Funtia St St Paul 1 Minn	10
Precise Measurements Corp Rd 1 Millbrook Rd Flemington NJ	8	Sibley Co Ridge St Haddam Conn	27	Telkor Inc 1200 Murray Ridge Rd Elyria Ohio	3-9-11-19
Precision Electroplating Co 619 B Oakley Blvd Chicago 12 Ill	27	Sightmaster Corp 50 Aleppo St Providence RI	3	Terra Div Consolidated Siphon Supply Co 22 Wooster St New York 13 NY	12-30-35
Premier Insulation Corp 62 W Houston St New York 12 NY	4-21-26-27-30			Thermal Refractories Corp 4501 Dell Ave N Bergen NJ	13
Printloid Corp 93 Mercer St New York 12 NY	13			Thermo Materials Inc 4040 Campbell Ave Menlo Park Calif	4-13-27

Toledo Scale Co
1027 Telegraph Rd Toledo Ohio 32

Topper Mfg Co Inc
147-12 Liberty Ave Jamaica 35 NY 10

Torrington Co
59 Field St Torrington Conn 12

Torwico Electronics Inc
1090 Morris Ave Union NJ 10-16

Tower Construction Co
2700 Hawkeye Dr Sioux City 2 Iowa 22

Transformer Metal Prods Corp
35 York St Brooklyn 1 NY 12

Transistor Electronics Co
2857 Republic Ave
Minneapolis 26 Minn 3-10-30-33

Tresco Inc
3524 Terrace St Philadelphia 28 Pa 10-16

Tricon Mfg Co
8008 Wallace St Chicago 20 Ill 4-12-30-35

Tricraft Products Corp
1124 W Newport Ave
Chicago 22 Ill 3-4-12-13-25-30-33-34-35

Tri-Dex Electronics
P O Box 1207 Lindsay Calif 3-7-8-9-13-28

Triplett & Barton
831 N Lake St PO Box 3128
Burbank Calif 32

Tronex Inc
Wheaton Ave Millvale NJ 16-27-30-35

TV Specialty Co
350 W 31 St New York 1 NY 12

Ultra Electroforming & Mfg Co
110 Cedar Ave Pitman 15 NJ 12

Ultra-Violet Products Inc
5114 Walnut Grove Ave
San Gabriel Calif 12-13

Ultronix Inc
116 S Bayshore Blvd San Mateo Calif 10

U M & F Inc
P O Box 14216 Dallas 34 Texas 12

Unimatic Mfg Corp
Sherwood Lane Caldwell NJ 12

United Aircraft Products Inc
1116 Bolander Ave Dayton 8 Ohio 4-12-23-35

United Mineral Chemical Corp
16 Hudson St New York 13 NY 25

United Shoe Machinery Corp
140 Federal St Boston 7 Mass 12-25

Universal Industrial Equipment Corp
1625 Paterson Plank Rd
Secaucus NJ 4-12-35

Universal Mfg Co
410 Hillside Ave Hillside NJ 12-13

Universal Mfg Co Inc
Grove St Irvington NJ 12

Uniwave Inc
109 Marine St Farmingdale NY 3-4-11-12-13

U S Controls Inc
161 Grand St New York 13 NY 3

U E Dynamics Corp
1250 Columbus Ave Boston 20 Mass 4-10

U S Graphite Co Div Wickes Corp
1621 Holland Ave Saginaw Mich 12-13

U S Plastic Molding Corp
Carlton St Wallingford Conn 10

U S Radium Corp
Morristown NJ 10-19

U S Recording Co
1347 E Capitol St Washington 8 DC 9-23

U S Testing Co
1415 Park Ave Hoboken NJ 8-12-13-17-29-32

Van Norman Industries Inc Electronics Div
186 Granite St Manchester NH 12

Vectron Inc
1611 Trapelo Rd Waltham 54 Mass 3-8-9-31

Victor RF & Microwave Co
86 W Water St Wakefield Mass 3-4-30

Viking Industries Inc
21843 Roscoe Blvd Canoga Park Calif 10

Virginia Electronics Co
River Rd & II & O RR
Washington 16 DC 3-12-13-23-32

Vitro Corp of America
261 Madison Ave New York 16 NY 23

Vocalite Screen Corp
19 Debevoise Ave Roosevelt NY 12-13-35

Vulcan Electric Co
88 Holden St Danvers Mass 30

Walkirt Co
141 W Hazel St Inglewood 8 Calif 3-10

Walham Screw Co
77 Rumford Ave Waltham 64 Mass 10-12

Warren Corp
2901 Brighton Rd Pittsburgh 12 Pa 12

Warren Corp J C
21 Hanse Ave Freeport NY 28

Warren Plastics Corp
Warren Pa 3-12-13

Waters Conley Co
Rochester 1 Minn 3-12

Waveline Inc
P O Box 718 Caldwell NJ 4-21

Weinschel Eng'g
10503 Metropolitan Ave Kensington Md 21 4-30-35

Weldex Inc
18425 Weaver Detroit 29 Mich 4-30-35

West Coast Research Corp
2371 1/2 Westwood Blvd
Los Angeles 54 Calif 6

Western Electro Acoustic Lab Inc
11789 San Vicente Blvd
Los Angeles 49 Calif 8

Western Felt Works
4023 Ordan Ave Chicago III 13

Western Instrument Co
826 N Victory Blvd
Burbank Calif 8-9-29-31

Westgate Lab Inc
506 S High St Yellow Springs Ohio 23

Westinghouse Electric Co. Div Air Arm Div

P O Box 746 Friendship Intl A P
Baltimore Md 28-29

Westinghouse Electric Corp
P O Box 868 Pittsburgh 30 Pa 21-22

Westlake Plastics Co
133 W Lenni Rd Lenni Mills Pa 26

Westline Products Div Western Lithograph Co
600 E 2 St Los Angeles 34 Calif 19

Weymouth Instrument Co
1440 Commercial St E Weymouth 89 Mass 21

Wheaton Co T C
Millville NJ 3-4-10-12-13-30-33

White Aircraft Corp
Palmer Mass 12

Wildberg Bros Smelting & Refining Co
742 Market St San Francisco 2 Calif 12-27

Williams Ship-Radio Co
4366 Mentone St San Diego 7 Calif 18

Wilmar Mfg Co
1110 Truman Rd Kansas City Mo 3-12

Wilmington Fibre Specialty Co
New Castle Dela 13

Winder Aircraft Corp of Florida
3-4-8-9-11

Williams Ship-Radio Co
Lakeland Fla 12-13-17-19-20
25-29-32-34-35

Winston Electronics Inc
4312 Main St Philadelphia 27 Pa 31

Wirco Electronics Inc
9910 Rush St El Monte Calif 10-30

Woodwelding Inc
355 N Newport Blvd Newport Beach Calif 35

Worcester Pressed Steel Co
100 Barber Ave Worcester 6 Mass 12

Wright Equipment Co
124 N Main St Milltown NJ 32

Wright Metalcoaters Inc
255 West St S Hackensack NJ 30-33

Zenith Plastics Co
1600 W 135 St Gardena Calif 8-13-29-32

Zippertubing Co
752 S San Pedro St Los Angeles 14 Calif 16

American Mica Radio Corp
285 Parker Ave Manassquan NJ 23

Applied Magnetics Corp
Santa Barbara A/P Bldg 304
Goleta Calif 14-19

Argonne Electronics Mfg Corp
165-11 South Rd Jamaica 33 NY 8-13-17

Astatic Corp
250 Harbor St Conneaut Ohio 16-17

Audicon Electronics Inc
216 Lyon St Paterson 4 NJ 10-12

Audio Devices Inc
444 Madison Ave New York 22 NY 7-8-9-32

Audiogersh Corp
514 Broadway New York 12 NY 23-27-28-38

Audit-Master Corp
17 E 45 St
New York 17 NY 10-11-12-27-28-36-39

Audio-Video Recording Co
730 S Ave New York 19 NY 33

Autocrat Electronics Co
5024 Elm St Skokie Ill 10-28

Bentley & Co Paul
230 E Ohio St Chicago 11 Ill 6-7-9-9

Birmingham Sound Reproducers Ltd
Monarch Works Power Lane Old Hill
Staffordshire England 13-16-17-23-3a

Rogen-Presto Div Siegler Corp
P O Box 500 Paramus NJ 3-4-5-27-38

Boulevard Recording Studio
632 N Dearborn St Chicago 4 Ill 33

Buss-Clement-Doughten & Associates
201 H Studio Hill Chester Springs Pa 36

Calbest Electronics Co
4801 Exposition Blvd
Los Angeles 16 Calif 23-27

Califone Corp
1041 N Sycamore Av
Hollywood 38 Calif 10-28

Camera Equipment Co
315 W 43rd St New York 36 NY 1-2

Canadian Astatic Ltd
2275 Danforth Ave
Toronto 13 Ont Canada 6-7-8-13-15-17

Canadian Aviation Electronics Ltd
6214 Cote de Liesse Rd
St Laurent Quebec Canada 12

Capitol Transcription Service
1120-A Conn Ave
N W Washington 6 DC 4-23-35

Capps & Co
20 Addison Pl Valley Stream LI NY 6-7-8-9

C R C Electronics Co
2601 N Howard St Philadelphia 33 Pa 25

Cinema Eng'g Div Aerovox Corp
1100 Chestnut St Burbank Calif 3-4

Coil Winders Inc
30 New York Ave New Cassel
Westbury LI NY 3-4-5

Columbia Records Div Columbia
Broadcasting System 799 7 Ave
New York NY 10-12-27

Concert Hall Society
115 Ave New York 3 NY 35

Cook Labs Inc
101 2 St Stamford Conn 30

Cordover & Co Carl
104 Liberty Ave Mineola NY 2

Crawford's of Beverly Hills
456 N Rodeo Dr Beverly Hills Calif 12

Damon Recording Studios
117 W 14 St
Kansas City 5 Mo 31-33-34-35-36-37

Decker Aviation Corp
1861 Frankford Ave Philadelphia 25 Pa 15

Diamond Tool Eng'g Co
108 Massachusetts Ave Boston 15 Mass 6-8

D & R Ltd
402 E Gutierrez St Santa Barbara Calif 38

Dunlap Electronics
764 9 St Des Moines 14 Iowa 3-4

Duotone Co
Locust St Keyport NJ 1-2-6-7-8-9-16-17-32

Electron Enterprises
6917 W Stanley Ave Berwyn Ill 10-27

Electronic Creations Co
1178 E 180 St New York 60 NY 10-12

Electronic Products Div Post Machinery
140 Elliot St Beverly Mass 20

Electro-Sonic Labs
85-54 36 St
Long Island City 6 NY 1-13-14-18-38

Electro-Voice Inc
Cecil & Carroll Sts Buchanan Mich 14-16-17

Electrovox Co
60 Franklin St E Orange NJ 6-7-8

Elgin National Watch Co
107 National St Elgin Ill 18

Emerson Radio & Phonograph Corp
14 & Coles Sts Jersey City 2 NJ 10-12-27

Erona Corp
551 Fifth Ave
New York 17 NY 10-13-14-19-21-23-27-29

Eric Resistor Corp
644 W 12 St Erie 6 Pa 16

Factory Service Co
4615 N 21 St Milwaukee 9 Wis 29

Fairchild Recording Equipment Co
10-40 45 Ave
Long Island City 1 NY 4-8-13-14-19-26-28-38

Fanon Electric Co
90 Berriman St Brooklyn 8 NY 10-12-26-27-28

Fen-Tone Corp
106 5th Ave New York 11 NY 6-8-14-19

Fisher Radio Corp
21-21 44 Dr Long Island City 1 NY 27

Frederick Recording Co
101 Townsend St Midland Mich 33-35-36

Garrard Sales Corp
80 Shore Rd
Port Washington NY 10-13-23-27-28-38

84—SOUND REPRODUCING EQUIPMENT, DISC

Brushes	1
Cloths, record cleaning	2
Compensators	3
Equalizers, record	4
Filters, needle scratch	5
Needles, diamond	6
Needles, metal	7
Needles, sapphires	8
Needles, steel	9
Phonographs, electric	10
Phonographs, hand-wound	11
Phonographs, radio combinations	12
Pickup, arms	13
Pickups, binaural	14
Pickups, capacitors	15
Pickups, ceramic	16
Pickups, crystal	17
Pickups, dynamic	18
Pickups, magnetic	19
Pickups, photoelectric	20
Pickups, reluctance	21
Pickups, resistance	22
Record changers, automatic	23
Record compounds	24
Record pads	25
Record Players, coin-operated	26
Record Players, home	27
Record Players, transcription	28
Record Racks	29
Record Presses	30
Records, binaural	31
Records, blank	32
Records, commercial	33
Records, frequency	34
Records, home	35
Records, sound effects	36
Records, test	37
Turntables	38

Advance Industries Inc
640 Memorial Dr
Cambridge 39 Mass 6-7-8-10-13-
15-27-28-35-38

Aerophysics Dev Corp Sub Curtiss-Wright Corp
P O Box 689
Santa Barbara Calif 16-17-18-19-20-21-22

Aerovox Corp
740 Belleville Ave New Bedford Mass 4

Aifton Industries
406 St Louis Ave
Valley Park Mo 27-31-32-35-37

Airtronix Development Corp
4902 Church Ave Brooklyn 3 NY 10-12

American Elite Inc
7 Park Ave New York 16 NY 10-12-23

American Machine & Foundry Co
Defense Products Group
1101 N Royal St Alexandria Va 29

Gates Radio Co
123 Hampshire St Quincy Ill 25-28

General Electric Co
Specialty Electronic Component Dept
W Genesee St Auburn NY 4-5-6-8-13-19-21

Glens Falls Lab
Box 585 Glens Falls NY 20

Gotham Audio Development Corp
2 W 46 St New York 36 NY 28-38

Graphite Metallizing Corp
1002 Nepperhan Ave Yonkers NY 1

Gray Mfg Co
16 Arbor St
Hartford 3 Conn 4-14-16-19-21-28-38

Greene Co L Charleston
314 Washington St Newton 58 Mass 10

Hamilton Electronics
2726 Pratt Ave Chicago 45 Ill 10

Infra Electronic Corp
47 Factory Pl Cedar Grove NJ 12

James International Corp
855 Ave of the Americas New York NY 39

Jensen Industries Inc
7383 Harrison St Forest Park Ill 2-6-7-8-9

Kay Electric Co
14 Maple Ave Pine Brook NJ 34

Kollman Instrument Corp
Sub Standard Coil Products
80-86 45 Ave Elmhurst 78 NY 22

Leak Div British Industries Corp
80 Shore Rd Port Washington NY 18

Linar Inc
401 San Fernando Rd Glendale 1 Calif 10-27

McClure Talking Pictures O J
115 W Washington Blvd Chicago 7 Ill 28

Majestic Intl Sales Corp
743 N La Salle Chicago 10 Ill 10-12-23-27

Major Electronics Corp
762 Wytche Ave Brooklyn 11 NY 10-12

Manufacturers Lab
10810 Kewwick St Sun Valley Calif 15

Marcant Co
25-11 104th Long Island City NY 3-4

Market Electric Products Inc
145 E Seneca St Buffalo 3 NY 23

Merix Chemical Co
1021 E 53 St Chicago Ill 2

Metsner Eng'g Corp
1041 N Sycamore Ave
Hollywood 38 Calif 13-28-28

Milco Reproducer Co
812 Broadway New York 3 NY 6-8

Miller Co J W
5915 S Main St Los Angeles 3 Calif 5

Miller Mfg Co M A
4 Church Sts Libertyville Ill 1-2-6-7-8-9

Molded Products Div Admiral Corp
Washington & Creamery Rd W Chicago Ill 13

MP Engineering Co
Fairfield 3 Conn 10-12-27-28

Neumatic Products Corp
280 W 57 St New York 19 NY 28

Newcomb Audio Products Co
6824 Lexington Ave Hollywood 38 Calif 27-28

North American Instruments Inc
2420 N Lake St Alhambra Calif 19-21

Panation Developments Div
Delta Broadcasting Sys
941 Sheldorne Ave
Dayton 3 Ohio 4-5-32-34-35-36-37

Permo Inc
6415 N Ravenswood Ave
Chicago 26 Ill 1-2-6-7-8-9

Permoflux Products Co
4101 San Fernando Rd Glendale 4 Calif 10-27

Pfanstiel Chemical Corp
104 Lake View Ave Waukegan Ill 6-7-8-9

Pickering & Co Inc
Sunnyside Blvd Plainview NY 3-4-6-8-13-15

Pilot Radio Corp
37-06 38 St Long Island City 1 NY 12

Poinsettia Co
110 Cedar Ave Pittman 16 NJ 30

Precision Radiation Instruments Inc
Radio Craftsman Div
4223 W Jefferson Blvd Los Angeles Calif 12

Precision Supply Co
292 Belmont Ave Paterson 2 NJ 8

Presto Recording Corp
Box 500 Paramus NJ 7-8-9-13-27-28-38

Pulse Techniques Inc
1411 Palisade Ave W Englewood NJ 2-4

Radio Corp of America
Commercial Electronic Products
Front & Cooper Sts Camden NJ 13

Radio Music Corp
84 S Water St
Port Chester NY 4-5-13-19-21-28-38

Resolon Corp
6235 Barnett Ave
Long Island City 4 NY 1-2-6-7-8-9-13-19-21-32

Reeves Equipment Corp
10 E 52 St New York 22 NY 4

Reeves Soudercraft Corp
10 E 52 St New York 22 NY 8-32

Rek-O-Kut Co
39-19 108 St Corona NY 10-15-27-28-38

Robina Industries Corp
214-26 41 Ave Hayside 61 NY 1-2-25

Robinson Recording Labs
35 S 9 St Philadelphia 7 Pa 38

Rockbar Corp
850 Halstead Ave
Mamaroneck NY 10-23-27-38

Ronette Acoustical Corp
190 Earle Ave Lynbrook NY 6-8-13-14-17

Rowe Industries
1702 Wayne St Toledo 9 Ohio 19

Scott Inc H H
385 Putnam Ave Cambridge 39 Mass 6-38

Scully Machine Co
62 Walter St Bridgeport 8 Conn 30

Shure Bros
222 Hartrey Ave Evanston Ill 13-16-17-18-19

Smith Assoc Inc Rawdon
1735 20 St N W Washington 9 DC 37

Sonic Industries
19 Wilbur St Lynbrook NY 10-12

Sonic Recording Products
58 Mill Rd Freeport NY 31-33-35

Sonotone Corp
P O Box 200-Saw Mill River Rd
Elmsford NY 16

Spak-O-Phone Recording & Equip Co
23 W 60 St New York 23 NY 35

Spoax Co
Mangum Ave High Point NC 29

Stackpole Carbon Co
St Marys Pa 1

Steelman Phonograph & Radio Co
2-30 Anderson Ave Mt Vernon NY 10-11-12

Stromberg-Carlson Div General
Dynamics Corp 100 Carlson Rd
Rochester 3 NY 23-27

Swiss Jewel Co
Lafayette Bldg Philadelphia 6 Pa 6-8

Sylvania Electric Products Inc
Sylvania Home Electronics
700 Elliott St Batavia NY 27

Symphonic Radio & Electronic Corp
235 Jersey Ave New Brunswick NJ 10-12

Talking Devices Co
1447 Irving Park Rd
Chicago 41 Ill 10-11-28-38

Techtron Electronics Ltd
129 Park Ave
Park Crest NJ 13-14-15-18-19-21-38

Telectro Industries Corp
43-18 47 St Long Island City 1 NY 4

Telephone Co of America
1668 Webster Ave New York 37 NY 10-12-27

Telex Co
46 Lakeview Ave Yonkers NY 6-8

Tetrad Co
62 St Mary St Yonkers NY 6

Texas Instruments Inc Industrial
Instrumentation Div
3609 Buffalo Speedway Houston 6 Texas 37

Thorens Co
Thorens Ave
New Hyde Park NY 10-11-13-17-27-28-38

Tomlin & Co E
8700 W 47 St Lyons Ill 11

Trans-Jel Corp
310 N Orange De Los Angeles 38 Calif 27

Trav-Lar Radio Corp
571 W Jackson Blvd Chicago 6 Ill 10

Turner Co
809 17 St N E Cedar Rapids Iowa 17

United Audio Products Div
United Optical Mfg
202 E 19 St
New York 3 NY 6-8-10-16-17-23-27

United Transformer Corp
150 Varick St New York 13 NY 4-5

U S Recording Co
1347 S Capitol St Washington 5 DC 10-27-28

Valco Mfg Co
4700 W Walton St Chicago 51 Ill 19

Vallorba Jewel Co
P O Box 358 Lancaster Pa 8

Vanite Fair Electronics
50 S 4 St Brooklyn 11 NY 10

Via-U-All Products Co
308 Fuller Ave N E Grand Rapids 2 Mich 19

Waisco Electronics Mfg Co
100 W Green St Rockford Ill 25-37

Waltham Precision Instrument Co
221 Crescent St Waltham 54 Mass 6-8

Warwick Mfg Corp
7300 N Lehigh Ave Chicago 31 Ill 10-23-27

Waters Conley Co
Rochester 1 Minn 10

Weather's Industries Div Advance
Industries 66 E Gloucester Pike
Harrington NJ 13-15

Wehcor Inc
5510 Bloomingdale Ave
Chicago 39 Ill 8-10-12-23-27

Webster Electric Co
1900 Clark St Racine Wisc 13-14-16-17

Wells-Gardner & Co
2701 N Kildare Ave Chicago 39 Ill 27

Westres Corp
111 8 Ave New York 11 NY 19-34-37

Westronics Inc
3605 McCart Ft Worth Texas 34

Whitley Electronics Inc
411 S Chauncey St Columbia City Ind 12-23

Wurlitzer Corp
105 W Adams St Chicago 3 Ill 10

Aerovox Corp
740 Belleville Ave New Bedford Mass 2-3

Afton Industries
406 St Louis Ave Valley Park Mo 7-8-9-10

American Molded Products Co
2727 W Chicago Ave Chicago 22 Ill 8-11

Ampex Corp
934 Charter St Redwood City Calif 8

Amplifier Corp of America
398 Broadway New York 13 NY 5

Applied Magnetics Corp
Santa Barbara A P Bldg
304 Goletta Calif 2-9

Astatic Corp
250 Harbor St Conneaut Ohio 3

Atlantic & Pacific Wire & Cable Co
112-01 Northern Blvd
E Elmhurst LI NY 11

Audio Devices Inc
444 Madison Ave New York 22 NY 8

Audio-Master Corp
17 E 45 St New York 17 NY 5-8-9

Audiomation Labs
7230 Clinton Rd Upper Darby 14 Pa
Audio-Video Recording Co
730 5 Ave New York 19 NY 8-9

Bell Sound Systems Inc
555 Marion Rd Columbus 7 Ohio 5

Berndt-Bach Inc Auricon Div
6900 Romaine Ave Hollywood 38 Calif 2-3

Bogen-Presto Div Siegler Corp
P O Box 500 Paramus NJ 5

Ivan Metalurgical-Chemical Div
820 65 Ave Philadelphia 26 Pa 11

Camera Equipment Co
315 W 43rd St New York 36 NY 4

Cinema Eng'g Div Aerovox Corp
1100 Chestnut St Burbank Calif 6

Columbia Records Div Columbia
Broadcasting System 799 7 Ave
New York NY 2

Cossino Inc
2107 Ashland Ave Toledo 2 Ohio 3-8

Crest Electronics Corp
20450 Old US 12 Chelsea Mich 8

Dietaphone Corp
420 Lexington Ave New York 17 NY 5-8

Digitronics Corp
Albertson Ave Albertson LI NY 3

Dubbings Sales Corp
226 Franklin Ave Hewlett NY 6

Edison Industries Thomas A Instrument Div
McGraw-Hill Co 5 Lakeside Ave
W Orange NJ 2-3-4

Electromation Co
1648 18 St Santa Monica Calif 5

Electro Sound Corp
115 Hallett St Boston 15 Mass 9

EMC Recordings Corp
806 E 7 St St Paul 6 Minn 5-8

Fairchild Recording Equipment Co
10-40 45 Ave Long Island City 1 NY 3

Fen-Tone Corp
108 5th Ave New York 11 NY 2-3-5

Florman & Babbs
68 W 45 St New York 36 NY 1-5

Fort Wayne Metals Inc
3211 MacArthur Dr Ft Wayne 6 Ind 11

Frederick Recording Co
101 Townsend St Midland Mich 9

General Transistor Western Corp
6110 Venice Blvd
Los Angeles 34 Calif 2-3-4

Graflex Inc
154 Clarissa St Rochester 8 NY 5

Heath Co
305 Territorial Rd Benton Harbor Mich 5

International Radio & Electronics Corp
R 4 Box 123 Elkhart Ind 5

Kinevox-Hallen Div Electromation Co
1646 18 St Santa Monica Calif 5

Klipsch & Associates
P O Drawer 98 Hope Ark 9

Labelon Tape Co
450 Atlantic Ave Rochester 9 NY 7-8

Lee Inc
625 N Y Ave NW Washington 1 DC 3-5

Linar Inc
4101 San Fernando Rd Glendale 4 Calif 5

Lipno Co Edwin A
1213 Colorado Ave Santa Monica Calif 2-3

Los Angeles 16 Calif 2-3

Magnasynic Mfg Co
5546 Satsuma Ave N Hollywood Calif 5-8

Magnecord Div Midwestern Instruments Inc
P O Box 7186 Tulsa Okla 3-5-9

Magnetic Corp
11245 W Olympic Blvd
W Los Angeles 64 Calif 2

Magnetic Sound Inc
4803 1/2 Grand Ave Des Moines 12 Iowa 9

Magne-Tronics Inc
49 W 45 St New York NY 9

Malco Co Inc
21 N 3rd St Minneapolis 1 Minn 2

Maurer Inc J A
37-01 31 St Long Island City 1 NY 5

Michigan Electronics Inc
854 N Rockwell St Chicago 22 Ill 5

Miller Electronics
2840 Naomi St Burbank Calif 9

Mincom Div Minn Mining & Mfg Co
2049 S Harrington Ave
Los Angeles 25 Calif 3-8

Minn-Honeywell Regulator Co Davies Labs Div
10721 Hanna St Belleville Mo 3

Minnesota Mining & Mfg Co
900 Bush Ave St Paul 6 Minn 8

Muhawk Business Machines Corp
944 Halsey St Brooklyn 33 NY 5

85—SOUND REPRODUCING EQUIPMENT, MAGNETIC

Editing blocks 1

Heads, magnetic film strips 2

Heads, magnetic tape playback 3

Heads, magnetic wire playback 4

Players, magnetic tape 5

Players, magnetic wire 6

Tape indexes 7

Tape, magnetic 8

Tape, prerecorded 9

Tapes, test 10

Wire, magnetic 11

Moviola Mfg Co	
1461 N Gordon St Hollywood 28 Calif	1
Norton Associates Inc	
P O Box 96 Garden City NY	2-3-4
Orradio Industries Inc	
Shamrock Circle Opelika Ala	8
Packard Bell Electronics Corp	
12333 W Olympic Blvd	
Los Angeles 61 Calif	5
Panama Electronics Corp	
7354 Frankford Ave Philadelphia 36 Pa	2-3
Permon Corp	
777 S Tripp Ave Chicago 24 Ill	5-5-5
Permo Inc	
6415 N Ravenswood Ave Chicago 26 Ill 8-11	
Permuflux Products Co	
4101 San Fernando Rd Glendale 4 Calif	5
Polytronics Inc	
7326 Westmore Rd Rockville Md	5
Pres Industrial Equipment Ltd	
Box 302 Putt Corners Rd N	
New Paltz NY	10
Presto Recording Corp	
Box 590 Paramus NJ	5
Rangertone Inc	
73 Winthrop St Newark 4 NJ	3
RCA Electron Tube Div	
Harrison NJ	8
Recorded Tape of the Month Club	
449 W 51st St New York 19 NY	9
Reotone Corp	
5235 Barnett Ave Long Island City 4 NY	8
Reeves Soundcraft Corp	
10 E 52 St New York 22 NY	5
Remington Rand Div Sperry Rand Corp	
315 4 Ave New York 10 NY	8
Robins Industries Corp	
214-20 41 Ave Bayside 61 NY	1-10
Rockbar Corp	
650 Halstead Ave Mamaroneck NY	3
Shure Bros	
222 Hartrey Ave Evanston Ill	3-4
Simplex Equipment Corp	
55 La France Ave Bloomfield NJ	2
Smith Assoc Inc Rawdon	
1735 20 St NW Washington 9 DC	3-10
Sonotone Corp	
P O Box 200-Saw Mill River Rd	
Elmsford NY	3
S O S Cinema Supply Corp	
602 W 52 St New York 19 NY	1-5-5
Sound Electronics Labs Div G H Poulsen Co	
1702 Wayne St Toledo Ohio	4
Southwestern Industrial Electronics Co	
2831 Post Oak Rd	
Houston 19 Texas	3-5-8-9-10
Stancil-Hoffman Corp	
921 N Highland Ave Hollywood 38 Calif	2-3
Stromberg-Carlson Div General	
Dynamics Corp 100 Carlson Rd	
Rochester 3 NY	3
Symphonic Radio & Electronic Corp	
235 Jersey Ave New Brunswick NJ	5
Talking Devices Co	
4447 Irving Park Rd Chicago 41 Ill	9
Techtron Electronics Ltd	
129 Park Ave Park Crest NJ	8-10
Teletronic Industries Corp	
3518 37 St	
Long Island City 1 NY	2-3-4-5-6-8-9-10
Telegraph Construction & Maintenance Co Ltd	
Mercury House Theobalds Rd	
London W C 1 England	9-11
Viking of Minn	
9690 Aldrich Ave S Minneapolis 20 Minn	5
Warren Corp J C	
21 Hansa Ave Freeport NY	5
Warwick Mfg Corp	
7300 N Lehigh Ave Chicago 31 Ill	5
Webeor Inc	
5610 Bloomingdale Ave Chicago 39 Ill	5-8
Webster Electric Co	
1900 Clark St Racine Wis	3
Wells-Gardner & Co	
2701 N Kildare Ave Chicago 39 Ill	5
Wide Range Recording Corp	
527 N Grand Blvd St Louis 8 Mo	2-3
Zephyr Products Co	
129 E 124 St New York 35 NY	8

86—SOUND SYSTEMS, INTER-COMMUNICATORS & HEARING AIDS

Amplifiers, mobile	1
Amplifiers, power	2
Bells & buzzers	3
Carrier current systems	4
Consoles, studio	5
Controllers, remote	6
Dictating machines	7
Equalizers	8
Hearing aids	9
Home sound systems	10
Intercommunicators	11
Megaphones, electronic	12
Musical equipment, electronic	13
Musical instruments, electronic	14
Paging systems	15
Preamplifiers	16

Public address systems 17 Speaker systems, marine 18 Telephone systems 19 Telephones, sound powered 20 Theater sound systems 21

Advance Industries Inc	
640 Memorial Dr Cambridge 39 Mass	10-16
Aerovox Corp	
740 Belleville Ave	
New Bedford Mass	3-3-8-16-17
Airtronix Development Corp	
4902 Church Ave	
Brooklyn 3 NY	2-10-11-16-17
Allied Radio Corp	
100 N Western Ave	
Chicago 80 Ill	1-2-10-15-16-17
Alter Lansing Corp	
1816 S Manchester Ave	
Anaheim Calif	2-15-17
Alto Fonic Music Systems Inc	
935 Commerce St Palo Alto Calif	17
American Communications Corp	
280 Broadway New York 17 NY	2-5-17-19
American Electronics Inc	
655 W Washington Blvd	
Los Angeles 15 Calif	16
American Machine & Foundry Co	
Defense Products Group	
1101 N Royal St Alexandria Va	2-11
American Mica Insulation Co	
235 Parker Ave Manasquan NJ	6
American Mira Radio Corp	
235 Parker Ave Manasquan NJ	2
American Sound Products Inc	
404 S Wells St Chicago 7 Ill	9
Ami Inc	
1500 Union Ave Grand Rapids 2 Mich	2-16
Amplivox Ltd	
2 Bentiner St London W 1 England	9
Argente Acoustic Ltd Ltd	
Minerva Rd London N W 10 England	9
Argonne Electronics Mfg Corp	
166-11 South Rd Jamaica 33 NY	6
Atlas Sound Corp	
1449 39 St Brooklyn 18 NY	12
Audicon Electronics Inc	
216 Lyon St	
Paterson 4 NJ	1-2-10-11-15-16-17
Audio Electronics	
15858 35 Ave N E Seattle 55 Wash	10
Audio Equipment Co	
805 Middle Neck Rd	
Great Neck NY	9-11-12-15-17
Audio-Master Corp	
17 E 45 St New York 17 NY	10-17
Audio Seal Corp	
Shepard Hill Rd Roxbury NY	20
Audivox Inc	
123 Worcester St Boston 18 Mass	9
Auth Electric Co	
34-20 45 St Long Island City 1 NY	3-15-19
Audocall Co	
57 Mack Ave Shelby Ohio	3-15
Automatic Electric Co	
1033 W Van Huren St Chicago 7 Ill	19
Avionics Ltd P O Box 200	
Niagara-On-The-Lake Ontario Canada	17
Barker Sales Co	
996 Edgewater Ave Ridgefield NJ	19
Barrett Electronics Corp	
630 Dundee Rd Northbrook Ill	2
Bell Sound Systems Inc	
565 Marion Rd Columbus 7 Ohio	10-17
Bennett Labs Inc	
2700 Bay Rd Redwood City Calif	4-11
Biosa Electronic Corp	
Box 366 Sussex NJ	2-11-15-19
Bogen Presto Div Siewler Corp	
P O Box 500	1-2-5-10-11-12-15-16-17-19-20
Paramus NJ	
British Electronic Sales	
Oakland Gardens Flushing 64 NY	3
Browning Labs Inc	
750 Main St Winchester Mass	15
Rudelman Radio Corp	
375 Fairfield Ave Stamford Conn	2-15-17
Bundy Electronics Corp	
171 Fabyan Pl Newark 12 NJ	11
Burwen Richard S	
14 Scotland Rd Lexington 73 Mass	1-8-10
Buss-Clement-Doughten & Associates	
201 R Studio Hill	
Chester Springs Pa	2-5-8-10-21
Cable Electric Products	
234 Daboll St Providence 7 RI	3
Califone Corp	
1041 N Sycamore Ave Hollywood 38 Calif	17
Capitol Transcription Service	
1120-C Conant Ave N W	
Washington 8 DC	5-8-16
Central Electronics Inc	
1247 W Belmont Ave Chicago 13 Ill	9
Cinema Eng'g Div Aerovox Corp	
1100 Chestnut St Burbank Calif	8-16
Commercial Radio Sound Corp	
652 1 Ave New York 16 NY	5-10-15-17-19
Communication Equipment & Eng'g Co	
5646 W Race Ave Chicago 44 Ill	2-4-16-17
Communication Measurements Labs	
350 Leland Ave Plainfield NJ	2
Conn Ltd C G	
555 E Jackson Blvd Elkhart Ind	13-14
Conn Organ Corp	
555 E Jackson Blvd Elkhart Ind	14
Conn Telephone & Electric Corp	
70 Britannia St Meriden Conn	3-4-11-19-20

Consolidated Productions Inc	
Broward Int'l Airport Ft Lauderdale Fla 1-2	
Continental Electronics Ltd	
302 Oakland St Brooklyn 22 NY	11-19-20
Cosser Canada Ltd	
301 Windsor St	
Halifax Nova Scotia Canada	15-17
Crown Engineering	
3821 Commercial N E Albuquerque NM	4
Dollar Co Robert Communications Equip Div	
500 Drumm St San Francisco 11 Calif	13
Dukane Corp	
St Charles Ill	2-11-15-16-17-19
Dunlap Electronics	
764 9 St Des Moines 14 Iowa	1-2-8-10-15-16
Dyna-Empire Inc	
3975 Stewart Ave Garden City LI NY	9
Electrical Communications Inc	
265 Clementina St San Francisco 3 Calif	8
Electronic Communication Equipment Co	
1249 W Loyola Ave Chicago 26 Ill	17
Electronic Organ Arts	
4875 Eagle Rock Blvd	
Los Angeles 41 Calif	13
Electronics Design Co	
400 E Cornell St P O Box 401 Enid Okla	1
Electronics Inc	
39 York Rd Willow Grove Pa	16-17
Electronic Systems Eng'g Co	
903 Cravens Blvd Oklahoma City Okla	16
Electro Sound Corp	
115 Halleck St Boston 15 Mass	21
Electro-Voice Inc	
Cecil & Carroll Sts Buchanan Mich	2-16
Elm Labs	
10 Washington Ave	
Hastings-On-Hudson NY	11
Eprad Co	
1206 Cherry St Toledo 4 Ohio	11-21
Ercosa Corp	
551 Fifth Ave New York 17 NY	2-10
Excelsior Inc	
415 Lexington Ave	
New York 17 NY	10-11-15-17
Fairchild Recording Equipment Co	
10-10 45 Ave Long Island City 1 NY	8-10
Falstrom Co	
Falstrom Court Passaic NJ	5
Fanon Electric Co Inc	
90 Herriman St	1-3-4-10-11-12-13-14-15-16-17-18-19-20-21
Brooklyn 8 NY	
Feiler Eng'g & Mfg Co	
8026 N Monticello Ave	
Skokie Ill	2-4-7-10-11-15-17
Femco Inc	
Box 32 Irwin Pa	15
Fen-Tone Corp	
106 5th Ave New York 11 NY	15
Fidelity Amplifier Co	
1633 N Halsted St Chicago 11 Ill	2-21
Fisher Berkeley Corp	
4224 Hollen St	
Emeryville 8 Calif	2-11-15-19
Flush Wall Radio Co	
1012 Cleveland St Clearwater Fla	10-15
Gal-Tronics Corp	
607 Washington St	
Reading Penna	11-15-16-17
Gates Radio Co	
123 Hampshire St Quincy Ill	5-6-8-10
Genco Eng Phone Co Inc	
89 E Jericho Tpk Mineola NY	9
General Electric Co	
Specialty Electronic Component Dept	
W Genesee St Auburn NY	10
Godfrey Mfg Co	
1633 N Halsted St Chicago 11 Ill	11
Good Electronics Corp	
17-19 Brooks St Newton 58 Mass	1-2-16-17
Gray Mfg Co	
16 Arthur St Hartford 1 Conn	2-7-8-10-16
Gray Research & Development Co	
Hillard St Manchester Conn	5-8
Hal-Hen Co	
36-14 11 St Long Island City 6 NY	9
Hallamere Electronics Co	
8352 Brookhurst Ave Anaheim Calif	19
Hamilton Electronics	
2726 Pratt Ave Chicago 45 Ill	2-15-17
Hammond Organ Co	
4200 W Diversey Ave Chicago 39 Ill	13-14
Health Co	
305 Territorial Rd	
Benton Harbor Mich	10-12-16
Holland Electronics	
772 E 53 St Brooklyn NY	1-2-10
I D E A Inc	
7900 Pendleton Pk Indianapolis 26 Ind	2-16
International Business Machines Corp	
690 Madison Ave New York 23 NY	17
International Research Associates	
3221 Warwick Ave Santa Monica Calif	2
Johnson Co E F	
206 2 Ave S W Waseca Minn	3
Kellogg Switchboard & Supply Co	
Div IT&T 79 W Monroe St	
Chicago 3 Ill	10
K-F Development Co	
266 Spring St Redwood City Calif	3
Kilgen Aircraft Div Kilgen Co	
4632 W Florissant Ave St Louis 15 Mo	5
Kliegl Bros	
321 W 50 St New York 19 NY	5
Kuax Industries Inc	
Tacony & Lewis Sts Philadelphia 24 Pa	5-11
Langwin Mfg Corp	
3221 Walnut Pl Long Island City 1 NY	15-17
Lansing Sound Inc James H	
3249 Casitas Ave Los Angeles 39 Calif	21

Leak Div British Industries Corp 30 Shore Rd Port Washington NY	2-10	Radio Corp of America Commercial Electronic Products Front & Cooper Sts Camden NJ	8-10-15-16-17-19-21	U S Recording Co 1347 S Capitol St Washington 5 DC	5-12-17
Lear Inc 3171 S Bundy Dr Santa Monica Calif	1	Rainland-Horg Corp 3535 W Addison St Chicago 14 Ill	1-2-3-5-6-8-10-11-15-16-17	Valandy Electronics Corp 61-35 166 St Flushing 68 NY	9-17
L. E. E. Inc 625 N Y Ave N W Washington 1 DC	5	Reb-O-Kut Co 39-19 108 St Corona NY	10	Vanco Mfg Co 4700 W Walton St Chicago 51 Ill	14
Lehigh Valley Electronics Engr & Mfg Co 215 S 3 St Allentown Pa	2-15-17-20	Remler Co 2101 Bryant St San Francisco Calif	2-4-9-12-18-19	Vicon Inc 4353 Merita Rd Colorado Springs Colo	9
Lenkurt Electric Co 1105 County Rd San Carlos Calif	4	Republic Aviation Corp Fairmington Rd LI New York	16	Virginia Electronics Co River Rd & B & O RR Washington 16 DC	1-2-10-11-15-16-18
Link-Radio Corp 110 Jericho Turnpike New Hyde Park LI NY	19	Rhein Sound Systems Inc 133 Hamilton St New Haven 5 Conn	2-4-11-15-16-17	Vocaline Co of America Coulter St Old Saybrook Conn	4-11
Linter Inc 4101 San Fernando Rd Glendale 4 Calif	1-2-10-12-16-17-18	RME Div Electro Voice Inc Buchanan Mich	2	Voron & Co George 835 N 19 St Philadelphia 30 Pa	1-2-10-11-15-17-19
Long Sound Engrs J M 2171 W Washington Blvd Los Angeles 18 Calif	17	Rubiera Mfg Co 426 F. Shaffer Cleburne Texas	4-10-11-15	Webster Electric Co 1900 Clark St Racine Wisc	1-4-10-15-17
Loran County Radio Corp 203 9th St Lorain Ohio	18	Rolan Co Topfield Mass	9-20	Western Electric Acoustics Lab Inc 11789 San Vicente Blvd Los Angeles 49 Calif	2-10
Lynnmar Engineers Inc 1132 N Carlisle St Philadelphia 21 Pa	2	Rson Co S C 1316 Yale Place Minneapolis 3 Minn	9	Westlab Electronics Inc 500 Tuckahoe Rd Yonkers NY	2-10-11-15-17-18-19-21
Magna Electronics Co 9710 Anza Ave Inglewood 1 Calif	14	Saratoga Industries Congress & Hallaton Aves Saratoga Springs NY	1-2	Wheeler Insulated Wire Co 150 E Aurora St Waterbury 20 Conn	20
Magnayte Mfg Co 5546 Saturn Ave N Hollywood Calif	5-8-21	Schindlers 2429 Beverly Ave Santa Monica Calif	11	Wheelock Signals Inc 273 Branchport Ave Long Branch	3-15
Magnecord Div Midwestern Instruments Inc P O Box 7186 Tulsa Okla	13-15	Schulmerich Electronics Inc Carillon Hill Sellersville Pa	14-16	Whitley Electronics Inc 411 Chauncey St Columbia City Ind	10
Magnetic Amplifiers Inc 632 Tinton Ave New York 55 NY	2-17	Scientific Wood Cabinet Co 89 Holmes St Belleville 9 NJ	5	Wide Range Recording Corp 527 N Grand Blvd St Louis 3 Mo	2
Malco Co Inc 21 N 3rd St Minneapolis 1 Minn	9	Seg Electronics Co Inc 1778 Flatbush Ave Brooklyn 10 NY	10-15-17	Werner Electronic Devices Rankin Ill	11
Marantz Co 25-11 Hdwy Long Island City NY	16	Sherwood Electronic Labs Inc 2802 W Gullion Ave Chicago 18 Ill	10	Wurlitzer Corp 105 W Adams St Chicago 3 Ill	13-14
Measurement Engrs Ltd 232 John St Ardaprior Ontario Can	2-5-12-17-18-20	Shrader Sound Inc 2803 M St NW Washington 7 DC	5-10-15-17-19-21		
Melody Master Mfg Co 2812 N Cicero Ave Chicago 41 Ill	9-10-17	Sieler Design Products 10460 San Pablo Ave El Cerrito Calif	10		
Melroy Electronics Inc 564 N Rockwell St Chicago 22 Ill	1-12-15	Simplex Equipment Corp 35 La France Ave Bloomfield NJ	2-16-21		
Mid-West Conveyor Co Metal Products Div 7 & Sunshine Rd Kansas City 15 Kan	5	Simpson Mfg Co Mark 32-28 49 St Long Island City 3 NY	1-4-10-11-13-15-16-17		
Miles Reproducer Co 812 Broadway New York 3 NY	7-19-20	Smith-Mosker Engg Co 157 Chambers St New York 7 NY	15-17		
Milhawk Business Machines Corp 914 Halsey St Brooklyn 33 NY	7-17	Sonotone Corp P O Box 200-Saw Mill River Rd Elmsford NY	9		
Mohr Associates Inc 2828 Spring St Redwood City Calif	4	S O S Cinema Supply Corp 802 W 52 St New York 19 NY	11-12-15-20-21		
Motograph Inc 4441 W Lake St Chicago 24 Ill	11-15-21	Spencer Inc James S 4908 Hampden Lane Washington 14 DC	11		
MP Engineering Co Fairfield 3 Conn	10-17-21	Spox Co Magnum Ave High Point NC	10		
Myers & Sons E A Valley Brook Rd Canonburg Pa	9	Standard Instruments 821 N Highland Ave Hollywood 38 Calif	16-21		
Nichols & Clark Inc 321 Newburyport Tpk Danvers Mass	9-15	Standard Instruments P O Box 11556 Dallas 18 Texas	2		
North Electric Co 553 S Market St Galion Ohio	3-4-6-11-19	Stephens Electronics Inc 5538 Warner Dr Culver City Calif	5-10-21		
Obeeline Inc P O Box 921 Beverly Hills Calif	2-4-5-10-15-16-17	Stromberg-Carlson Div General Dynamics Corp 100 Carlson Rd Rochester 3 NY	3-4-13-18-19		
O'Brien Electric Corp 5514 Santa Monica Blvd Hollywood 38 Calif	5-12-15-17-21	Tuffet Radio & TV Co 27-05 Brooklyn-Queens Expressway W Woodside 77 NY	17		
Otarian Listener Corp Scarborough Pk Ossining NY	9	Talk-A-Phone Co 1512 S Pulaski Rd Chicago 23 Ill	11		
Palmer Inc M V 1002 Fruit Valley Rd Vancouver Wash	4-11-19	Tech-Master Corp 75 Front St Brooklyn 1 NY	6-10		
Pannaron Developments Div Delta Broadcasting Sys 941 Shelburne Ave Dayton 3 Ohio	5-8-10-16	Techtron Electronics Ltd 129 Park Ave Park Crest NJ	10-16		
Parsons Inc 2056 E 4 St Cleveland 15 Ohio	9	Telectro Industries Corp 35-19 37 St Long Island City 1 NY	1-2-4-5-7-11-17-19-21		
Partridge & Wilkins Co 51 N 7 St Philadelphia 6 Pa	2-16	Telemarine Communications Co 140 W Broadway New York 13 NY	1-2-12-17		
Peirce Dictation Systems 5900 N Northwest Hwy Chicago 31 Ill	7	Telephonics Corp Park Ave Huntington LI NY	17-19-20		
Pernoflux 2300 W Armitage Ave Chicago 47 Ill	18	Teletronic Labs Inc 1835 W Rosecrans Ave Gardena Calif	10		
Perrin Products Co 4101 San Fernando Rd Glendale 4 Calif	1-2-10-12-16-17-18	Telex 1633 Euatit St St Paul 1 Minn	9-16		
Philo Corp Tioga & C Sts Philadelphia 24 Pa	5-9-15	Texas Instruments Inc Industrial Instrumentation Div 3609 Buffalo Speedway Houston 6 Texas	1		
Philo Corp Govt & Industrial Div 4700 Wissahickon Ave Philadelphia 44 Pa	9-15	Thomas Organ Co 8345 Hayvenhurst Ave Sepulveda Calif	14		
Pilot Radio Corp 37-06 36 St Long Island City 1 NY	2-16	Transelectric Mfg Co P O Box 335 Oxford Pa	11-20		
Polytronics Inc 7326 Westmore Rd Rockville Md	2-7-12-15-16-17	Transline Electronic Communication Co 95 Summit St Newark 3 NJ	11		
Poray Inc 3369 W Grand Ave Chicago 51 Ill	8	Trans-Rol Corp 910 N Orange Dr Los Angeles 38 Calif	10-15-17		
Pratt Albert 114 W Lake View Ave Milwaukee 17 Wisc	1	Tru-tone Electronics Inc 6912 Santa Monica Blvd Los Angeles 38 Cal	2-10-16-17		
Precision Electronics Inc 9101 King St Franklin Pk Ill	1-2-10-15-16-17-18-19-20-21	UAC Electronics Div Universal Transistor Prods Corp 59 Bond St Westbury LI NY	12		
Precision Hearing Aids 5157 W Grand Ave Chicago 30 Ill	9	Ultra Hi-Fi Co 709 Slip St Union City NJ	10		
Precision Radiation Instruments Inc Radio Craftsmen Div 4223 W Jefferson Blvd Los Angeles Calif	2-10	United Transformer Corp 159 Varick St New York 13 NY	8		
Pye Canada Ltd 82 Northline Rd Toronto 16 Ontario Canada	6-12-15-17-18-19	Universal Transistor Products Corp 36 Sylvester St Westbury LI NY	1-2		
Pye Corp of America 1149 Raritan Ave Highland Park NJ	12	University Loudspeakers Inc 89 S Kenzo Ave White Plains NY	10-11-15-17-18-21		
Pye Telecommunications Ltd Newmarket Rd Cambridge England	1-2-6-11-12-17-18-19	U S Instrument Corp P O Box 1191 Charlottesville Va	3-19-20		
Qualitone Co 4318 Upton Ave S Minneapolis 10 Minn	8				
Racon Electric Co 1261 Broadway New York 1 NY	18				

87—SPEAKERS

Horns	1
Speakers, ceramic	2
Speakers, crystal	3
Speakers, electrodynamic	4
Speakers, electrostatic	5
Speakers, explosion-proof	6
Speakers, high-fidelity	7
Speakers, ionic	12
Speakers, magnetic	8
Speakers, PM dynamic	9
Speakers, weatherproof	13
Tweeters	10
Woofers	11

Advance Industries Inc 640 Memorial Dr Cambridge 39 Mass	7
Alter Lansing Corp 1515 S Manchester Ave Anaheim Calif	1-4-6-7-9-10-11
American Communications Corp 260 Broadway New York 17 NY	1-7
American Elite Inc 7 Park New York 16 NY	7
American Mira Radio Corp 235 Parker Ave Manasquan NJ	9
Ami Inc 1500 Union Ave Grand Rapids 2 Mich	1-7
Atlas Sound Corp 1449 39 St Brooklyn 18 NY	1-4-6-10-13
Audiotek Corp 514 Broadway New York 12 NY	1-10-11
Barker Sales Co 996 Edgewater Ave Ridgefield NJ	5-7-9-10-11
Becker Electronics Mfg Corp 1091 Rockaway Ave Valley Stream NY	9
Bosak Sales Co R T Box 1168 Darien Conn	7
Carbonneau Industries Inc 100 Lexington Ave SW Grand Rapids 4 Mich	9-10-11-13
Cletron Inc 1974 E 61 St Cleveland 30 Ohio	4-7-9-10-11-13
Cleveland Electronics Inc 1974 E 61st St Cleveland 3 Ohio	7-8-9-10-11-14
Cosser Canada Ltd 301 Windsor St Halifax Nova Scotia Canada	7-10-11
Duotone Co Locust St Keyport NJ	7-10
DX Radio Products Co 2300 W Armitage Ave Chicago 47 Ill	9-10-11-13
Dynamic Electronics Inc 73-29 Woodhaven Blvd Forest Hills NY	7
Electronic Instrument Co 34 Withers St Brooklyn 11 NY	7
Electro-Voice Inc Cecil & Carroll Sts Buchanan Mich	1-4-7-8-9-10-11-12-13
Epirad Co 1206 Cherry St Toledo 4 Ohio	13
Ereona Corp 551 Fifth Ave New York 17 NY	1-5-7-9-10-11
Fen-Tone Corp 106 5th Ave New York 11 NY	1
General Electric Co Specialty Electronic Component Dept W Genesee St Auburn NY	7-10-11

Gray Research & Development Co
Hilliard St Manchester Conn 7

Hartley Products Co
521 E 162 St New York 51 NY 7-9

Heath Co
305 Territorial Rd
Benton Harbor Mich 7-9-10-11

Heppner Mfg Co
Box 608 Round Lake Ill 7-9-10-11-13

International Scientific Industries Corp
2374 E Hiway 24 Colorado Springs Colo 7

Jensen Mfg Co
6801 S Laramie Ave
Chicago 38 Ill 1-4-7-9-10-11-13

Klinisch & Associates
P O Drawer 96 Hope Ark 7

Knowles Electronics Inc
9400 Belmont Franklin Park Ill 8

Lansing Sound Inc James R
3249 Casitas Ave Los Angeles 39 Calif 7

L E E Inc
625 N Y Ave NW Washington 1 DC 1-7

Lindlar Inc
4101 San Fernando Rd
Glendale 4 Calif 4-6-7-9-10-11-13

McGregor Electronic Industries Inc
132 First St McGregor Iowa 9-10-11

Magnavox Corp
2131 Bueter Rd
Ft Wayne 4 Ind 4-7-9-10-11-13

Magnavox Co
2131 Bueter Rd
Ft Wayne Ind 4-7-9-10-11-13

Majestic Int'l Corp
79 Washington St
Brooklyn 1 NY 4-5-7-8-9-10

Molded Fiber Glass Co
4801 Benefit Ave Ashtabula Ohio 1

National Company Inc
61 Sherman St Malden 48 Mass 7-9

Oxford Elec Corp
3911 S Michigan Ave
Chicago 15 Ill 4-7-8-9-10-11-13

Pampa Electronics Corp
7354 Frankford Ave
Philadelphia 36 Pa 8-7-10

Permoflux
2300 W Armitage Ave
Chicago 47 Ill 4-6-7-9-10-11-13

Permoflux Products Co
4101 San Fernando Rd
Glendale 4 Calif 4-6-7-9-10-11-13

Philco Corp Accessory Div
"A" & Allegheny Ave Philadelphia 34 Pa 5

Pickering & Co Inc
Sunnyside Blvd Plainview NY 5

Precision Radiation Instruments Inc
Radio Craftsmen Div 4223 W Jefferson Blvd
Los Angeles Calif 7

Pye Telecommunications Ltd
Newmarket Rd Cambridge England 1-13

Quam Nichols Co
234 E Marquette Rd
Chicago 37 Ill 4-7-9-10-11-13

Racon Electric Co
1261 Broadway
New York 1 NY 1-4-6-7-8-9-10-11-13

Radio Corp of America
Commercial Electronic Products
Front & Cooper Sts
Camden NJ 1-6-7-8-9-12

RCA Electronic Tube Div
415 S 5th St Harrison NJ 1-2-4-7-10-12

RCA Electron Tube Div
415 S 5th St Harrison NJ 9

Rexon Equipment Corp
10 E 52 St New York 22 NY 7

Rockbar Corp
650 Halstead Ave
Mamaroneck NY 1-7-9-10-11

Ruffan Co
Topsfield Mass 4-8

Rula Co Inc
2430 Superior Ave
Cleveland 14 Ohio 4-7-8-9-10-11-13

Sieler Design Products
10460 San Pablo Ave El Cerrito Calif 1-7

Simpson Mfg Co Mark
32-28 49 St Long Island City 3 NY 9-13

Sonotone Corp
P O Box 200-Saw Mill River Rd
Elmsford NY 9-10-11

Stephens Tru-Sonic Inc
8538 Warner Dr Culver City Calif 1-7-10-11

Stromberg-Carlson Div General
Dynamics Corp 100 Carlson Rd
Rochester 3 NY 7-9-10-11

Symphony Electronics Corp
925 S Western Ave Los Angeles 6 Calif 4

Techtron Electronics Ltd
129 Park Ave
Park Crest NJ 1-4-5-7-8-9-10-11-12-13

Televex Co
46 Lakeview Ave Yonkers NY 12

Transatron Inc
186 Granite St Manchester NH 8-7

Trutone Electronics Inc
6912 Santa Monica Blvd
Los Angeles 38 Cal 7

United Audio Products Div
United Optical Mfg 202 E 19 St
New York 3 NY 7-9-10-11-13

University Loudspeakers Inc
80 E Kenisco Ave
White Plains NY 1-6-7-9-10-11-13

U S Instrument Corp
P O Box 1191 Charlottesville Va 1

Weathers Industries Div Advance
Industries 66 E Gloucester Pike
Barrington NJ 7

Wharfedale Div British Industries Corp
80 Shore Rd Port Washington NY 7-10-11

Whitley Electronics Inc
411 S Chauncey St Columbia City Ind 7

Wright Zimmerman Inc
New Brighton St Paul 12 Minn 7-9-10-11

88—SPEAKER ACCESSORIES

Baffles 1

Cabinets 2

Chambers, acoustic 3

Cloths, grill 4

Cells, crossover 5

Cells, fixed 6

Cones 7

Drivers, PM 8

Exciters, field 9

Grills 10

Materials, acoustic 11

Materials, sound absorbent 12

Mountings, car top 13

Networks, crossover 14

Shims, adjusting 15

Stands 16

Suspensions (for cones) 17

Abalon Precision Mfg Corp
540 Casanova St New York 59 NY 2-10

Aerulite Electronics Corp
2207 Summit Ave Union City NJ 5-6-14

Altec Lansing Corp
1515 S Manchester Ave
Anaheim Calif 1-2-3-8

American Communications Corp
240 Broadway New York 17 NY 1-2

American Mica Insulation Co
235 Parker Ave Manasquan NJ 2

American Mica Radio Corp
235 Parker Ave Manasquan NJ 1

Ami Inc
1500 Union Ave Grand Rapids 2 Mich 2-5-14

Argos Products Co
301 Main St Genoa Ill 1-2

Atlas Sound Corp
1449 39 St Brooklyn 18 NY 1-8-16

Auburn Mfg Co
Pease Ave & Stack St Middletown Conn 15

Barber & Howard Co
East Ave Westerly RI 1-2

Barber & Williamson Inc
Canal & Beaver Sts Bristol Pa 5-14

Bell & Gossett CO Duplex Div
#200 Austin Ave Morton Grove Ill 3

Bestcraft Products Co
626 Broadway New York 12 NY 1-4-10

Bugen-Presto Div Siegler Corp
P O Box 500 Paramus NJ 1

Bozak Sales Co R T
Box 1166 Darien Conn 2-14

Brooks Radio & TV Corp
#4 Vesey St New York 7 NY 1-2-4

Cabinart Div G & H Wood Products
99 N 11th St Brooklyn 11 NY 2

Cambridge Pattern Works
55 First St Cambridge 41 Mas 2

C B C Electronics Co
2601 N Howard St Philadelphia 33 Pa 12

CELCO Constantine Eng'g Labs Co
P O Box 555 Mahwah NJ 6

Cleveland Electronics Inc
1974 E 61 St Cleveland 3 Ohio 5-14

Collis Electronics Co
2939 49 N 2 St Phila 33 Penna 2

Commercial Radio Sound Corp
652 1 Ave New York 16 NY 1

Cowser Canada Ltd
301 Windsor St
Halifax Nova Scotia Canada 1-2

Croname Inc
2701 Ravenswood Ave Chicago 13 Ill 1-2-10

Dittmore-Freimuth Corp
2517 E Norwich St Milwaukee 7 Wisc 2

D & M Products
13144 W McNichols Rd Detroit 35 Mich 1-9

Dynamic Electronics Inc
73-29 Woodhaven Blvd Forest Hills NY 1-2

Elcor Inc Div Jacobs III
517 W Walnut St Ogelsby Ill 8

Electro Sound Corp
115 Halleck St Boston 15 Mass 2

Electro-Voice Inc
Cecil & Carroll Sts Buchanan Mich 2-5-8-14

Elzee Metal Products Co
775 39 St Brooklyn 32 NY 2

Ercoma Corp
551 Fifth Ave New York 17 NY 8-14

Falstrom Co
Falstrom Court Passaic NJ 2

Flock Process Co
375 Main Ave Norwalk Conn 1-4-10-11-12

Geo-Lar Mfg Co
418 S Wyman St Rockford Ill 4

General Cement Mfg Co Div Trexton Inc
400 Wyman St Rockford Ill 4-15

General Electric Co
Specialty Electronic Component Dept
W Genesee St Auburn NY 2-14

Hamilton Electronics
2726 Pratt Ave Chicago 45 Ill 2

Hartley Products Co
521 E 162 St New York 51 NY 1-2

Harwood Electronics Co
466 W Superior St Chicago 10 Ill 1

Hawley Products Co
333 N 6 St St Charles Ill 7-17

Insuline Corp of America
186 Granite St Manchester NH 2-4

James Vibratower Co A-Cam Div
109 W 8 St Gibson City Ill 5

Jensen Mfg Co
6601 S Laramie Ave Chicago 38 Ill 1-2-3-14

John-Manville
22 E 40 St New York 16 NY 11-12

Kelsey-Hayes Co
3500 Military Ave Detroit 32 Mich 2-10

Kent Lighting Corp
590 Johnson Ave Brooklyn 37 NY 7

Kusa Industries Inc
Tacony & Lewis Sts Philadelphia 24 Pa 2

Lindlar Inc
4101 San Fernando Rd
Glendale 4 Calif 1-2-5-14

Lorenzen Inc H K
391 W Broadway New York 12 NY 7

Lowell Mfg Co
3030 Laclais Station Rd St Louis 17 Mo 1

Magic-Vue Television Corp
323 E 13 St New York 3 NY 2

Metallic Plastics Corp
27-10 44 Dr Long Island 1 City NY 1-4-10-11

Mid-West Conveyor Co Metal Products Div
7 & Sunshine Rd Kansas City 15 Kan 2-16

Mundi & Sons Charles
53 Fairmount Ave Jersey City 4 NJ 10

National Capacitor Co
18 Webster St Brookline 16 Mass 14

Northern Metal Products Corp
9599 W Grand Ave Franklin Park Ill 5-10

Palo Alto Eng'g Co
620 Page Mill Rd Palo Alto Calif 8

Paul & Beckman
1801 W Cortland St
Philadelphia 40 Pa 2-10

Peerless Electrical Products
1515 S Manchester Ave Anaheim Calif 5-14

Peerless Products Industries
812 N Pulaski Rd Chicago 51 Ill 1-4-10

Permoflux
2300 W Armitage Ave Chicago 47 Ill 1-2-5

Permoflux Products Co
4101 San Fernando Rd
Glendale 4 Calif 1-2-5-14

Powers Co J J
P O Box 211 Maywood Ill 4-2-3

Premier Metal Products Co
337 Manida St New York 39 NY 1-2

Racon Electric Co
1261 Broadway
New York 1 NY 1-2-5-8-9-11-13

Radio Corp of America
Commercial Electronic Products
Front & Cooper Sts Camden NJ 1-5

Remler Co
2101 Bryant St San Francisco Calif 1-10

R J Audio Products
80 Shore Rd Port Washington NY 1-2

Roberts Mfg Co
426 E Shaffer Cleburne Texas 1

Saxton Products Inc
1661 Boone Ave New York 60 NY 1

Scientific Wood Cabinet Co
89 Holmes St Belleville 9 NJ 1-2-3-15

Secull Mfg Co
99 Mill St Waterbury 20 Conn 10

Semrow Products Co
4317 N Ravenswood Ave
Chicago 13 Ill 1-4-10

Sherwood Electronic Labs Inc
2802 W Gullum Ave Chicago 18 Ill 2-14

Sieler Design Products
10460 San Pablo Ave El Cerrito Calif 1-2-14

Simpson Mfg Co Mark
32-28 49 St Long Island City 3 NY 1

Sonic Industries
19 Wilbur St Lynbrook NY 2

Sonotone Corp
P O Box 200-Saw Mill River Rd
Elmsford NY 2

Spox Co
Mangum Ave High Point NC 2-16

Stephens Tru-Sonic Inc
8538 Warner Dr Culver City Calif 1-2

Stevens Products Inc
86 Main St E Orange NJ 3-17

Stromberg-Carlson Div General
Dynamics Corp
100 Carlson Rd Rochester 3 NY 2

Swan Electronics Co
5016 N Austin Ave Chicago 30 Ill 5-6

Techniques Inc
52 Jackson Ave Hackensack NJ 2

Teles
1633 Eustia St St Paul 1 Minn 6-8

Titchener & Co E H
67 Clinton St Binghamton NY 4-10

Trutone Electronics Inc
6912 Santa Monica Blvd
Los Angeles 38 Cal 1-2

TV Hardware Mfg Co Div Dextron Inc
400 S Wyman St Rockford Ill 1

University Loudspeakers Inc
80 S Kenisco Ave
White Plains NY 1-2-3-5-7-8

U S Electronics Corp
278 Warren St Lyndhurst NJ 6

U S Rubber Co
1230 6 Ave New York 20 NY 13

Victory Mfg Corp
1722 W Arcade Pl Chicago 12 Ill 10

Vidair Electronics Mfg Corp
44 Church St Baldwin NJ 14
Virginia Electronics Co
River Rd & H & O E R
Washington 16 DC 5-14
Waldom Electronics Inc
4625 W 53 St Chicago 32 Ill 7-17
Wells-Gardner & Co
2701 N Kildare Ave Chicago 39 Ill 2
Welsh Co Inc Wm H
2241 Indiana Ave Chicago 16 Ill 7-10-17
Wharfedale Div British Industries Corp
89 Short Rd Fort Washington NY 1-2
Whitley Electronics Inc
411 S Chauncey St Columbia City Ind 1-2
Zenith Plastic Co
1600 W 135 St Gardena Calif 2

Advance Electronics Co
8510 North End Ave Oak Park 37 Mich 43
Aeroflex Labs
34-06 Skillman Ave
Long Island City 1 NY 9-11-30
Aerovox Corp
740 Belleville Ave New Bedford Mass 26
Alter Lansing Corp
1515 S Manchester Ave
Anaheim Calif 3-26-27-28-43-44-46
American Communications Corp
280 Broadway New York 17 NY 26-27-28-29
American Microwave Corp
11754 Voss St N Hollywood Calif 28-61-63
American Optical Co Instrument Div
Box A Buffalo 15 NY 43
Arens Controls Inc
2017 Greenleaf St Evanston Ill 28
Bach & Co Simon
636 Greenwich St New York 14 NY 40
Bauch & Lomb Optical Co
828 St Paul St Rochester 2 NY 41-50
Bell & Howell
7100 McCormick Rd Chicago 45 Ill 46
Berndt-Bach Inc Auricon Div
6900 Romaine Ave Hollywood 38 Calif 14
B & K Mfg Co
3726 N Southport Chicago Ill 23
Billie Electric Co
Union Station Bldg Erie Pa 35
Blonder-Tongue Laboratories
9-25 Alling St Newark 2 NJ 65
Bodde Screen & Projector Co
11541 Bradley Ave
San Fernando Calif 45-46-47-48-49-50-51-60
Bohm Electric Mfg Co
52 Iowa Ave Paterson 3 NJ 29-31
Brooks & Perkins
1850 W Ford St Detroit Mich 8
Bryg Inc
12-13-14-15-16-17-18-19-20-22-
Butler Pa 23-24-25-27-30-31-36-40-41-46-
48-50-51-54-56-58-59-63

General Precision Lab Inc
63 Bedford Rd 3-10-12-13-14-17-18-
Pleasantville NY 29-30-31-45-46-48-49-51
Goodyear Aircraft Corp
1210 Massillon Rd Akron 15 Ohio 45-60
Gordon Enterprises 7-8-9-10-11-
5362 N Cahuenza Blvd 12-13-14-15-43-
N Hollywood Calif 43-45-46-49-50-51-63
Graflex Inc
154 Clarissa St Rochester 8 NY 9
Gray Mfg Co
16 Arbor St Hartford 1 Conn 44-46-48-60-51
Hallamore Electronics Co
8452 Brookhurst Ave
Anaheim Calif 3-13-26-27-29-30-42
Hamilton Electronics
2726 Pratt Ave Chicago 45 Ill 40
Harwood Electronics Co
466 W Superior St Chicago 10 Ill 2
Heath Co
305 Territorial Rd
Henton Harbor Mich 36-49
Hickok Electrical Instrument Co
10514 Dupont Ave
Cleveland 8 Ohio 17-19-25-37-60
Holland Electronics
772 E 53 St Brooklyn NY 3-44
Houston Fearless Div Color Corp of America
11801 W Olympic Blvd 7-8-9-11-12-13-
Los Angeles 64 Calif 14-29-30-42-43-63
Industrial TV Inc
369 Lexington Ave Clifton NJ 20-65
Insul-K-Electronics
1369 Industrial Rd San Carlos Calif 14-12
International Business Machines Corp
580 Madison Ave New York 23 NY 32
Jack Scientific Instrument Co Hill
143 Cedros St Solana Beach Calif 30-33
Kane Productions Al
141 Walnut St Philadelphia 2 Pa 65
Kay Electric Co
14 Maple Ave Pine Brook NJ 17-19-25-36-39
Kees Mfg Co F D
700 Park St Beatrice Nebr 45
Kelsey-Hayes Co
3600 Military Ave Detroit 32 Mich 42-43
Kilgen Aircraft Div Kilgen Organ Co
4632 W Florissant Ave
St Louis 15 Mo 27-28-29-31

89—STUDIO EQUIPMENT
(Color & Black-and-White)

Adapters, field sequential 1
Adapters, line & dot sequential 2
Amplifiers, distribution 3
Amplifiers, montage 4
Amplifiers, stabilizing 5
Amplifiers, video faders 6
Camera cranes 7
Camera dollies 8
Camera mounts 9
Camera switching equipment 10
Camera turrets 11
Cameras, field 12
Cameras, studio 13
Cameras, TV film 14
Color slide & film scanners 22
Color TV camera chains 15
Color TV encoders 16
Color TV equipment 17
Color TV film chains 18
Color TV generators 19
Color TV monitors 20
Color TV pickup tubes 21
Color TV stabilizing amplifiers 23
Color TV sync equipment 24
Color TV test equipment 25
Consoles, audio 26
Consoles, control 27
Consoles, remote switching 28
Control equipment 29
Controls, camera 30
Controls, master 31
Converters, field sequential 32
Crystals, color TV frequency control 33
Distribution equipment 34
Faders 35
Generators, color signal 36
Generators, sync 37
Generators, sync stretchers 38
Generators, TV signal 39
Lenses, TV magnifying 40
Lenses, TV projection 41
Monitors, line & program 65
Pan heads 42
Pedestals 43
Preamplifiers 44
Projection units 45
Projectors, TV film 46
Projectors, TV kaleidoscope 47
Projectors, TV mirror multiplexers 48
Projectors, TV rear screen 49
Projectors, TV slide 50
Projectors, TV special purpose 51
Prompting equipment 52
Receivers, cue 53
Receivers, studio 54
Remote pickup, audio 55
Remote pickup, video 56
Reverberation units 57
Scanners, flying spot 58
Shapers, TV 59
Special effects equipment 60
Studio transmitter links 61
Transmitters, cue 62
Tripods 63
Tubes, color 64

Huhl Optical Co
1009 Beech Ave Pittsburgh 33 Pa 40-41-51
Barker & James Inc
321 S Wabash Ave Chicago 4 Ill 14-40-41
Camera Equipment Co 2-7-8-9-10-11-12-13-14-
315 W 48th St 17-20-26-27-30-40-41-42-43-44-
New York 36 NY 46-47-49-50-52-60-63-65
Camera Mfg Inc
1845 Broadway New York 23 NY 8-63
Cameraflex Corp
1947 Broadway New York City 23 NY 9
Century Lighting Inc
821 W 43 St New York 36 NY 49-50-51
Chromatic Television Laboratories
1501 Broadway New York 36 NY 66
Cinema-Television Ltd Worsley Bridge 14-16-
Rd Lower Sydenham 17-18-19-20-22-24-25-37-
London SE 26 England 38-48-52-53-60-66
Cinematic Developments
2125 32 Ave San Francisco 16 Calif 11
Clegg Labs Div Clegg Inc
Ridge-dale Ave Morristown NJ 44
Colorado Research Corp
4697 E Evans Ave Denver 22 Colo 39
Commercial Radio Sound Corp
642 E Ave New York 18 NY 26-27-28
Communication Equipment & Eng'g Co
5646 W Race Ave Chicago 43 Ill 28-46
Conra Inc
19217 E Foothill Blvd Glendora Calif 20-54-65
Consolidated Productions Inc
Broward Int'l Airport
Ft Lauderdale Fla 30-31
Cunningham Sam & Co James
31 Litchfield St
Rochester 8 NY 17-20-24-25-27-28-29-31-65
Dege TV Div Thompson Products
W 10 St Michigan City Ind 13-14-18-30-31-37
Dallons Labs
5086 Santa Monica Blvd
Los Angeles 29 Calif 62
Dukane Corp
St Charles Ill 26
Dunlap Electronics
764 S St Des Moines 14 Iowa 26
Eastman Kodak Co
343 State St Rochester 4 NY 46
Eastman Pacific Co
2320 E 8 St Los Angeles 21 Calif 10
Edmund Scientific Co
101 E Gloucester Pike Barrington NJ 42
Electronic Eng'g Co of Calif
180 S Alvarado St Los Angeles 67 Calif 30
Electronic Instrument Co
84 Withers St Brooklyn 11 NY 25
Entron Inc
4902 Lawrence St Bladensburg Md 17
Eresma Corp
531 Fifth Ave New York 17 NY 60
Falstrom Co
Falstrom Court Passaic NJ 26-27-28
Fecker Inc J W
6892 Hamilton Ave
Pittsburgh 6 Pa 9-10-11-12
Federal Shoekmount Corp
1050 Washington Ave New York 56 NY 9
Florman & Bahb
68 W 45 St New York 36 NY 8-9-42-63
Foto-Video Labs Inc
25 Amity St 3-4-5-6-12-13-14-16-17-19-23-
Little Falls NJ 24-25-37-38-39-40-44-61
Gates Radio Co
123 Hampshire St
Quincy Ill 6-13-26-27-28-29-35-44-55-57-60
General Precision Lab Inc
21 N Santa Anita Ave
Pasadena 8 Calif 3-10-13-14-18-37-42-43-45

Kinetel
5735 Kearny Villa Rd
San Diego 12 Calif 16-37-46-50
Kliegl Bros
321 W 50 St
New York 19 NY 29-50-52-53-62
Kuss Industries Inc
Tacony & Lewis Sts
Philadelphia 24 Pa 26-27-43
Labs Scientific Inc
111 W Elm Stillwater Okla 44-46
Langrekin Mfg Corp
47-37 Austell Pl
Long Island City 1 NY 3-5-23-29-44-46
Lase-Lab Inc
Route 32
Sykesville Md 12-13-46-47-48-49-50-52
L. E. E. Inc
625 N Y Ave NW
Washington 1 DC 26-27-44-57
Litton Industries Electronic Display Lab
1475 66 St Emeryville Calif 66
Liton Industries of Calif
336 N Foothill Rd
Heverly Hills Calif 17-21-23-66
McAllister Inc J G
1117 N McCadden Pl
Hollywood 38 Calif 8
Mack Electronics Div Inc
1000 S 2 St Plainfield NJ 37
Madison-Fielding Corp
863 Madison St Brooklyn 21 NY 44-46
Magnetic Amplifiers Inc
632 Tinton Ave New York 55 NY 29-30
Majestic Int'l Corp
79 Washington St Brooklyn 1 NY 46
Mast Development Co Inc
2212 E 12th St Davenport Iowa 9-30
M-R Communication Co
4626 Walnut St Philadelphia 19 Pa 63
Measurement Eng'g Ltd
232 John St
Amherst Ontario Can 26-27-28-29
Melink Steel Safe Co Tele Electronics Div
1672 Oakwood Ave Toledo 6 Ohio 45-51
Michigan Electronics Inc
854 N Rockwell St Chicago 22 Ill 31
Mid-West Conveyor Co Metal Products Div
7 & Sunshine Rd
Kansas City 15 Kan 26-27-28
Monsie Mfg Co
1451 N Garlon St Hollywood 28 Calif 8
National Cine Equipment Inc
209 W 48 St New York 36 NY 7-8-9-41-63
Neill Co H W
4320 Montrose Ave Chicago 41 Ill 26-27-46
Oberlin Inc
P O Box 921 Beverly Hills Calif 26-44
O'Brien Electric Corp
6514 Santa Monica Blvd
Hollywood 38 Calif 26-27-28-29-32
Opto Eng'g Co
3624 W Washington Blvd
Los Angeles 18 Calif 42
Panton & Co Ltd ex British
Electronic Sales Co
Box 132 Oakland Gardens 64 NY 36
Palmer Inc M V
4002 Fruit Valley Rd Vancouver Wash 61

Abrams Instrument Corp
806 E Shawnee St Lansing 1 Mich 29-30
Ailer Electronics Inc
1 Levee Lane New Rochelle NY 26-27

Panatron Developments Div	
Delta Broadcasting Sys	
941 Sheldor Ave Dayton 3 Ohio	26-34
Par Products Corp	
602 Colorado Ave	
Santa Monica Calif	41-35-41
Pembrex Theatre Supply Corp	
1869 S Vermont Ave Los Angeles 7 Calif	49
Pentron Corp	
777 S Tripp Ave Chicago 24 Ill	44
Perkin-Elmer	
Main Ave Norwalk Conn	40
Philco Corp	10-14-15-16-17-18-19-20-22-23-24
Tioga & C Sts	26-27-28-29-31-34-35-36-37-39
Philadelphia 24 Pa	44-45-46-47-58-60-61
Philco Corp Govt & Industrial Div	14-16-17
4700 Winahickon Ave	18-19-20-22-24-25-26
Philadelphia 44 Pa	27-28-29-31-46-58-60-61-65
Polarad Electronics Corp	
43-20 34 St	14-16-17-19-20-22
Long Island City 1 NY	24-25-36-37-39-65
PSC Applied Research Ltd	
1500 O'Connor Dr	
Toronto 16 Ont Canada	30-31
Pye Canada Ltd	3-5-6-9-10-11-12-13-14-17-20
42 Northline Rd	26-27-28-29-30-31-34-35-37
Toronto 16 Ont Can	40-42-43-46-48-50-56-61
	63-65
Radio Corp of America	2-3-5-6-7-8-9-10-11-12
Commercial Electronics Products	13-14-15
Front & Cooper Sts	17-18-19-20-21-22-23
Camden NJ	24-25-26-27-28-29-30-31-33-34
	35-36-37-38-39-40-41-42-43-44-45-46
	47-48-49-50-51-52-53-54-55-56
	58-59-60-61-62-63-64-65
Raytheon Mfg Co Commercial Equip Div	
100 River St Waltham 54 Mass	47
Raytheon Mfg Co Receiving & Cathode	
Ray Tube Div	
55 Chapel St Newton 58 Mass	66
Reeves Equipment Corp	
10 E 52 St New York 22 NY	26-27-57
RME Div Electro Voice Inc	
Buchanan Mich	46
Safetec Glass Co	
1717 Stenton Ave Philadelphia 44 Pa	50
Scientific Wood Cabinet Co	
89 Holmes St Belleville 9 NJ	26-27-29
Seco Mfg Co	
5015 Penn Ave S Minneapolis 19 Minn	25
Simplex Equipment Corp	
55 La France Ave Bloomfield NJ	45-46
Skiatron Electronics & TV Corp	
480 Varick St New York 14 NY	58-59-60
S O S Cinema Supply Corp	
602 W 52 St	7-8-9-11-12-13-14
New York 19 NY	42-43-45-46-49-60-61
Sparton Control Systems	
Div Sparks-Withington Co	
2301 E Michigan Ave Jackson Mich	32
Specialty Eng'g & Electronics Co	
79 Clifton Pl Brooklyn 38 NY	63
Standard Electronics Div Radio Eng'g Labs	
30 & Horden Sts	
Long Island City NY	5-17-26-27
Stewart Trans-Lux	
1111 Sepulveda Blvd Tarrance Calif	60
Stromberg-Carlson Div	
General Dynamics Corp	
100 Carlson Rd Rochester 3 NY	27-46
Strong Electric Corp	
87 City Park Ave Toledo 1 Ohio	45-50
Studio TV Product Sales	
342 W 40 St New York 18 NY	8
Superior Electric Co	
83 Laurel St Bristol Conn	29
Tarc Electronics Inc	
48 Urban Ave	3-4-5-6-10-16-17-19-23-24-25
Westbury LI NY	29-34-35-36-37-38-44-49-60
Tarzan Inc Sarkes	3-5-6-8-9-10-11-12-13-14-26
415 N College Ave	27-28-29-30-31-34-35-37
Bloomington Ind	39-40-41-42-43-45-46-48-49
	50-51-54-61-63-65
Tedford Crystal Labs	
4126 Colerain Ave Cincinnati 23 Ohio	34
Telechrome Mfg Corp	1-2-3-4-5-6-15-16-17-18
28 Ranick Dr	19-20-22-23-24-25-33-34-35-36
Amityville LI NY	37-38-39-58-60-65
Telco Industries Corp	
35-18 37 St	
Long Island City 1 NY	3-26-27-28-29-31-34-44
Tel-Instrument Electronics Corp	
728 Garden St	3-16-17-19-20-24
Carlstadt NJ	25-34-36-37-39-59
Tran-Kit Electronics Co	
467 S L Ave Mt Vernon NY	44-46
Trans-Lux Corp	
625 Madison Ave New York 22 NY	49
TV Specialty Co	
350 W 31 St	7-8-44-47-51
New York 1 NY	52-53-62-65
Waldorf Instrument Co Div F C Huyck & Sons	
Park Ave Huntington Station NY	27-29-31
Westbury Electronics Inc	
800 Shames Dr Westbury NY	35-53
Westinghouse Electric Corp	
Box 284 Elmira NY	66
Westrex Corp	
111 B Ave New York 11 NY	26-27-28
Whitley Electronics Inc	
411 B Chateaufort St Columbia City Ind	27
Wickes Eng'g & Construction Co	
12 St & Ferry Ave	
Camden 4 NJ	16-17-19-20-25
Winston Electronics Inc	
4312 Main St Philadelphia 27 Pa	25
Zoomar Inc	
55 Sea Cliff Ave Glen Cove NY	40-41

90—STUDIO ACCESSORIES

Clocks	1
Color accessories, miscellaneous	2
Fire detection & fighting equipment	3
Patch cords	4
Patch panels	5
Power supplies	6
Racks, disc storage	7
Racks, equipment	8
Racks, film storage	9
Racks, tape storage	10
Test equipment	11
Watches, stop	12

Aerovox Corp	
740 Belleville Ave	
New Bedford Mass	4-5-6
American Machine & Foundry Co	
Defense Products Group	
1101 N Royal St Alexandria Va	3-8
AMCO Eng Co	
7333 W Ainslie St Chicago 31 Ill	7-8-11
AMP Inc	
Eisenhower Blvd Harrisburg Pa	4-5
Artisan Metal Works Co	
11400 Madison Ave	
Cleveland 2 Ohio	7-8-9-10
Audicon Electronics Inc	
216 Lyon St Paterson 4 NJ	11
Audio Accessories	
279 Broadway Amityville NY	4-5
Audio Development Co	
2835 13 Ave S Minneapolis Minn	4-5
Brooks & Perkins Inc	
1950 W Fort St Detroit 38 Mich	8
Burke & James Inc	
321 S Wabash Ave Chicago 4 Ill	3
Burroughs Corp Electronic Instrument Div	
1209 Vine St Philadelphia 7 Pa	4
Cable Electric Products	
234 Dahall St Providence 7 RI	4
Century Electronics Co	
34 Oleander St Cocoa Fla	4-5
Century Lighting Inc	
521 W 43 St New York 36 NY	4-5
Christie Electric Corp	
3410 W 67 St Los Angeles 43 Calif	8
Churchill Lighting Corp	
344 Franklin St Melrose 76 Mass	8
Cinema-Television Ltd	
Worsley Bridge Rd Lower Sydenham	
London S E 26 England	11
Communication Equipment & Eng'g Co	
5616 W Race Ave Chicago 44 Ill	8
Continental Electronics Ltd	
302 Oakland St Brooklyn 22 NY	4-5
Davenport Mfg Co	
1718 N Ashland Ave Chicago 22 Ill	6-11
Deming Indicator Co	
1016 Acorn Dr Dayton 9 Ohio	11
DIT-MCO Inc Electronics Div	
911 Broadway Kansas City Mo	11
Dressen-Barnes Corp	
250 N Vinewood Ave Pasadena Calif	8
Dunlap Electronics	
754 9 St Des Moines 14 Iowa	4-5-6-11
Eacor Inc	
4235 W North Ave Chicago 39 Ill	8
Eacor Inc Div Jacobs Co	
517 W Walnut St Ogelsky Ill	6
Empire Electronics Co	
166 River St Paterson 1 NJ	
Factory Service Co	
4615 N 21 St Milwaukee 9 Wisc	8
Florman & Balch	
68 W 45 St New York 36 NY	9-12
Foto-Video Labs Inc	
25 Amity St Little Falls NJ	6-11
Gates Radio Co	
123 Hampshire St Quincy Ill	3-6-8-11
General Metal Products Co	
1010 Centre St Easton Pa	8
General Precision Lab Inc	
63 Bedford Rd Pleasantville NY	5-6
Gordon Enterprises	
5362 N Cahuenaga Blvd	
N Hollywood Calif	9-10-12
Gotham Audio Development Corp	
2 W 46 St New York 36 NY	6
Green Rectifier Co	
1-10 30 St Fairlawn NJ	6
Harwald Co Inc	
1245 Chicago Ave Evanston Ill	7-9-10
Holland Electronics	
772 E 53 St Brooklyn NY	4-5-6-11
Industrial Systems Co	
32 Main St Matawan NJ	8
Inauline Corp of America	
186 Granite St Manchester NH	5-8
Jacksonville Metals Plastics Co	
575 Dara St Jacksonville Fla	4-5
Kluge Electronics	
6 & Main Sts Albion Nebr	8
Kuza Industries Inc	
Tacony & Lewis Sts Philadelphia 24 Pa	6-8
Lambda Electronics Corp	
11-11 131 St College Point 56 NY	6
Langvin Mfg Corp	
47-37 Austell Pl Long Island City 1 NY	6
Leedal Inc	
2929 S Halsted Chicago Ill	2
Lee Electric & Mfg Co	
2806 Clearwater St Los Angeles 39 Calif	6
L E Inc	
625 N Y Ave N W Washington 1 DC	6
Linlar Inc	
4101 San Fernando Rd Glendale 1 Calif	6
Lord-Taber Co	
40 Ontario St Canandaigua NY	3
Lyon Metal Products Inc	
11 Railroad Ave Aurora Ill	7-8-9-10
Magnetic Amplifiers Inc	
632 Tinton Ave New York 55 NY	6
Metal Specialty Products Corp	
27-01 Brooklyn Queens Expressway W	
Woodside 77 NY	8-11
Michigan Electronics Inc	
854 N Rockwell St Chicago 22 Ill	8
Mid-West Conveyor Co Metal Products Div	
7 & Sunshine Rd Kansas City 15 Kan	8
Moore Associates Inc	
2628 Spring St Redwood City Calif	1
Naisco Associates Inc	
Littleton Mass	11
National Cine Equipment Inc	
209 W 48 St New York 36 NY	8
Neumade Products Corp	
250 W 57 St New York 19 NY	7-9-10
O'Brien Electric Corp	
6514 Santa Monica Blvd	
Hollywood 38 Calif	8
Opad Electric Co	
69 Murray St New York 7 NY	6-11
Penco Metal Products Div	
Alan Wood Steel Co Oaks Penna	8-9
Permoflux Products Co	
4101 San Fernando Rd Glendale 4 Calif	6
Plastic Capacitors Inc	
2620 N Clybourn Ave Chicago 14 Ill	6
Pye Canada Ltd	
82 Northline Rd	
Toronto 16 Ontario Canada	4-5-6-11
Pye Telecommunications Ltd	
Newmarket Rd Cambridge England	11
Pyrene C-O-Two Div	
U S Hwy 1 Newark 1 NJ	
Radio Corp of America	
Commercial Electronic Products	
Front & Cooper Sts	
Camden NJ	1-15-5-8-9-10
Republic Aviation Corp	
Farmingdale LI NY	6
Roseo Labs	
29 Moore St Brooklyn 6 NY	2
Saratoga Industries	
Congress & Hallaton Aves	
Saratoga Springs NY	8
Schirmer-National Alarm Co	
20 Westside Ave Bergenfield NJ	3
Scientific Glass Apparatus Co	
100 Lakewood Terrace Bloomfield NJ	12
Sessions Clock Co	
61 E Main St Forestville Conn	1
S O S Cinema Supply Corp	
600 W 52 St New York 19 NY	5-9-10-12
Stacklin Corp	
1079 Main St Pawtucket RI	8
Standard Electronics Div Radio Eng'g Labs	
30 & Horden Sts Long Island City NY	6
Stromberg Time Corp	
135 S Main St Thomaston Conn	1
Superior Electric Co	
83 Laurel St Bristol Conn	6
Taffer Radio & TC Co	
27-05 Brooklyn-Queens Expressway W	
Woodside 77 NY	6-6-11
Tarc Electronics Inc	
48 Urban Ave Westbury LI NY	6-11
Tarlan Inc Sarkes	
415 N College Ave Bloomington Ind	8
Technical Ply-Woods Sales	
6756 Crandon Ave Chicago 49 Ill	1
Telechrome Mfg Corp	
28 Ranick Dr Amityville LI NY	6-11
Teletro Industries Corp	
35-18 37 St	
Long Island City 1 NY	4-5-6-11
Telex	
1633 Eustia St St Paul 1 Minn	4
Tel-Instrument Electronics Corp	
728 Garden St Carlstadt NJ	6-11
Utility Metal Products Co Inc	
117 Elliott St Beverly Mass	7-8-9-10
Vector Electronic Co	
1100 Flower St Glendale 1 Calif	4-5
Vickers Inc Electric Products Div	
1887 Locust St St Louis 8 Mo	5
Virginia Electronics Co	
River Rd & R & O R R	
Washington 16 DC	8
Waldorf Instrument Co Div F C Huyck & Sons	
Park Ave Huntington Station NY	5-6-8
Waltham Precision Instrument Co	
221 Crescent St Waltham 54 Mass	1-12

91—SWITCHES

Contactors	1
Switches, circuit breaker	2
Switches, coaxial	3
Switches, commutator	4
Switches, contact	5
Switches, crossbar	6
Switches, decade	7
Switches, duplex	8
Switches, electronic	9

Switches, float	10
Switches, fluorescent lamp starter	11
Switches, foot	12
Switches, hermetically sealed	13
Switches, jack	14
Switches, key	15
Switches, knife	16
Switches, limit	17
Switches, mercury	18
Switches, microphone	19
Switches, microwave	20
Switches, miniature	21
Switches, oil immersed	22
Switches, plunger	23
Switches, pressure	24
Switches, printed circuit	25
Switches, programmer	26
Switches, pulse	27
Switches, push-button	28
Switches, remote control	29
Switches, rotary chopper	30
Switches, rotary sampling	31
Switches, rotary selector	32
Switches, safety-interlock	33
Switches, slide	34
Switches, snap action	35
Switches, stepping	36
Switches, subminiature	37
Switches, telemetering	38
Switches, thermal	39
Switches, time delay	40
Switches, toggle	41
Switches, transformer	42
Switches, transistor	43
Switches, turret	44
Switches, vacuum	45
Switches, wave change receiver	46
Switches, wave change, transmitter	47
Switches, waveguide	48

Abrams Instrument Corp	605 E. Shawwassee St Lansing 1 Mich	10
Aero Div Robert Shaw Fulton Control Co	3040 E. Madison St Columbus Ohio	17-21-24-28-35-37
Admittance Nameo Corp	Marine St Farmingdale LI NY	3-20-18
Advanced Products	69 Broadway North Haven Conn	40
Aero Instrument Co	11421 Vanowen St N Hollywood Calif	24
Aerolite Electronics Corp	2207 Summit Ave Union City NJ	17
Aeromotive Eng'g Products Ltd	2257 Queen Mary Rd Montreal Que Canada	18-21-35-37
Aerophysics Dev Corp Sub	Curtis-Wright Corp P O Box 680 Santa Barbara Calif	1-3-7-9-31-42
Aerovox Corp	740 Belleville Ave New Bedford Mass	5-15-32-36
A G A Div Elastic Stop Nut Corp	1027 Newark Ave Elizabeth 3 NJ	40
Aifrom Inc	130 E 1st St Roselle NJ	3-20-48
Aiolyte Electronics Co	535 Avenue A Bayonne NJ	4-31-38
Airpax Products Co Seminole Div	City of Plantation Ft Lauderdale Fla	2-13
Airtronics Inc	5522 Barney Lane Bethesda Md	3
Airtron Inc	1108 W Elizabeth Ave Linden NJ	3-5-9-17-20-21-48
Alden Products Co	12358 N Main St Brockton 64 Mass	28
Alford Mfg Co	299 Atlantic Ave Boston 10 Mass	3
Allen-Bradley Co	138 W Greenfield Ave Milwaukee 4 Wis	1-10-12-17-24-28-29-35-40-41
Allied Allegri Co	141 River Rd Nutley 10 NJ	25
Allied Control Co	2 East End Ave New York 21 NY	37-41-45
American Brass Co	414 Meadow St Waterbury 88 Conn	11
American Machine & Foundry Co	Defense Products Group 1101 N Royal St Alexandria Va	7-8-9
American Printed Circuits Co	104 Forrest St Metuchen NJ	25-38
Amlo Corp	4833 Ravenswood Ave Chicago 13 Ill	27-40
Anstran Div Endevco Corp	45 W Union St Pasadena Calif	21-26-31
Andrew Antenna Corp	606 Beech St Whithy Ontario Can	3
Andrew California Corp	941 E Maryland Ave Claremont Calif	3-48

Andrew Corp	363 E 75 St Chicago 19 Ill	3-48
Antenna & Radome Research Assoc	1 Bond St Westbury NY	20-48
Applied Science Corp of Princeton	P O Box 44 Princeton NJ	4-31-38
Arch Instrument Co	101 Holmes St N Quincy Mass	17
Ardente Acoustic Labs Ltd	Minerva Rd London NW 10 England	21-37-46
Armsus Corp	11924 W Washington Blvd Los Angeles 66 Calif	4-9
Arrow-Hart & Hexeman Electric Co	103 Hawthorne St Hartford 6 Conn	10-11-12-15-17-18-28-29-32-35-41
Atlas Electric Products Co	P O Box 1501 Erie Pa	13-18-23
Atlas Powder Co	Wilmington 99 Del	6-9-21-40
Aticon Corp	827 N Union St Galion Ohio	15
Audio Sears Corp	Shepard Hill Rd Roxbury NY	19
Automatic Electric Co	Northlake Ill	13-14-15-29-31-32-36
Automatic Metal Products Corp	323 Berry St Brooklyn 11 NY	3
Automatic & Precision Mfg Co	252 Hawthorne Ave Yonkers NY	13
Automatic Switch Co	Hanover Rd Florham Park NJ	1-9-20-29-40
Automatic Timing & Controls Inc	King of Prussia Pa	9-13
Automation Inc	212 Worcester St Wellesley Hills 2 Mass	30
Auto Test Inc	411 W 8th St Neillsville Wis	28
Antron Eng Inc	1254 W 6 St Los Angeles 17 Calif	3-26-31-36-38
Avnet Electronic Supply Co	86 S Moore St New York 13 NY	2-9-14-15-41
Barker & Williamson Inc	Canal & Heaver Sta Bristol Pa	3-9
Barnes Development Co	213 W Baltimore Ave Lansdowne Pa	31
Barwood Electronics Inc	921 E Broadway Glendale 5 Calif	12
Baside Timers	45-25 162 St Flushing 58 NY	36
Beebe Inc	298 E 5 St Paul 1 Minn	4-9-25-31-32-38
Bendix Aviation Corp Pacific Div	1180 Sherman Way N Hollywood Calif	38
Bendix Aviation Corp Friez Instrument Div	1100 Taylor Ave Baltimore 4 Md	24
Bendix Aviation Corp Red Iron Div	Semiconductor Dept 201 Westwood Ave Long Branch NJ	43
Bernco Engineering Corp	2226 S Tibbs Ave Indianapolis 41 Ind	18-26
Birnbach Radio Co	135 Hudson St New York 13 NY	15-16-29-34-41
Bizart Mfg Corp	815 Selgel St Brooklyn 6 NY	3-20-48
Bristol Co	P O Box 1790 EI Waterbury Conn	10-13-21-24-29-30-32-37-38-45
British Electronic Sales Co Inc	Arcadia Electric Switch Div Oakland 4 Caln Flushing NY	11-14-15-16-18-21-25-28-32-33-34-35-36-39-40-41
Cable Electric Products	234 Dahlia St Providence 7 RI	5-14-15-16-17-29-39-41
Cado Mfg Co Div Electromotion Co	1646 18 St Santa Monica Calif	3
Capitol Machine Co	36 Halmforth Ave Danbury Conn	15-23
Carling Electric Inc	505 New Park Ave W Hartford 10 Conn	5-12-21-23-33-34-35-41
Carter Parts Co	3401 W Madison St Skokie Ill	2-9-14-17-25
Cascade Research Corp	Div Monogram Precision Industries 53 Victory Lane Los Gatos Calif	21
Centralab Div Globe Union Inc	900 E Keefe Ave Milwaukee 1 Wis	7-9-21-32-34-37
Central Electronic Mfra Inc	Sub Nuclear Corp of America 2 Richwood Pl Denville NJ	45
Century Electronics & Instruments Inc	1333 N Utica P O Box 6216 Pine Sta Tulsa 10 Okla	24
CGS Laboratories Inc	Routes 7 & 35 Ridgefield Conn	9
Chatham Controls Corp	33 River St Chatham NJ	39
Chatham Electronics Div Gera Corp	W Mt Pleasant Ave Livingston NJ	9-45
Cherry Electric Products Corp	1650 Deerfield Rd Highland Park Ill	9-17-19-21-25-29-33-35-37
Chicago Telephone Supply Corp	1142 W Beardley Ave Elkhart Ind	21-25-28-32-35-43
Cinema Eng'g Div Aerovox Corp	1100 Chestnut St Burbank Calif	32
Clare & Co C P	3101 Pratt Blvd Chicago 45 Ill	18-15-36

Clark Controller Co	1146 E 152 St Cleveland 10 Ohio	1-9-10-12-13-16-17-22-24-28-29-32-33-35-41
Clarostat Mfg Co	Washington St Dover NH	32-35
Cleveland Metal Specialties Co	1783 E 21 St Cleveland 14 Ohio	25
Compact Controls Co	1635 N Halsted St Chicago 14 Ill	24-26
Computer Instruments Corp	92 Madison Ave Hempstead NY	4-5-21-26-27-30-31
Conn Telephone & Electric Corp	70 Britannia St Meriden Conn	15-19-28-41
Consolidated Controls Corp	4 Durant Ave Hethel Conn	24-39-45
Consolidated Productions Inc	Howard Int'l Airport Ft Lauderdale Fla	9-29
Continental Electronics Ltd	302 Oakland St Brooklyn 22 NY	3-14-15
Control Products Inc	306 Sunex St Harrison NJ	28-35-39-41
Controls Co of America	9555 Soreng Ave Schiller Park Ill	24-28-32-35
Cook Electric Co	2700 Southport Ave Chicago 14 Ill	1-10-13-21-24-36-37-39-40-45
Cornelius Co	550 39 Ave NE Minneapolis 21 Minn	13-24
Corning Glass Works	Corning NY	9-13-21
Couch Ordnance Inc	3 Arlington St N Quincy 71 Mass	32
Cramer Controls Corp	Centerbrook Conn	40
Croname Inc	3701 Hawthornwood Ave Chicago 13 Ill	25
Cunningham Son & Co James	33 Litchfield St Rochester 8 NY	6
Cutler-Hammer Inc	315 N 12 St Milwaukee 1 Wis	1-2-5-28-32-34-35-11
Dale Hussen Co	2322 Nebraska Ave Santa Monica Calif	25-31
Danbury Knutson Inc	15 Thorpe St Danbury Conn	3
Datacan Inc	48 Notch Rd Little Falls NJ	9
Daven Co	Route 10 Livingston NJ	4-5-7-15-21-25-26-27-29-32-34-36-37-38-43
Defender Instrument & Regulator Co	Hoody Ill	24-39-45
Demornay-Bonardi Corp	740 S Arroyo Pkwy Pasadena Calif	20-48
Designers For Industry	424 Fulton Pkwy Cleveland 9 Ohio	26
Detect-O-Ray Co	2502 N Halsted St Chicago 14 Ill	9
Detroit Controls Corp	Great Meadows Rd & Honeyport Rd Stratford Conn	21-35
Diamond Antenna & Microwave Corp	7 North Ave Wakefield Mass	20
Dielectric Products Eng'g Co	Raymond Me Dietz Co Henry G 12-16 Astoria Blvd Long Island City 2 NY	24-26-45
Digitran Co	15 W Union St Pasadena Calif	7
Dimco-Gray Co	207 E 6 St Dayton 2 Ohio	40
D & M Products	12144 W McNichols Rd Detroit 35 Mich	32
Don-Lan Electronics Co	1101 Olympic Blvd Santa Monica Calif	3-20-48
Douglas Microwave Co	252 E 3 St Mt Vernon NY	3-20-48
Dr. Mont Labs A H	750 Bloomfield Ave Clifton NJ	9
Dunlap Electronics	764 9 St Des Moines 14 Iowa	25
Dura Kool Inc	1010 N Main St Elkhart Ind	18
Dynamics Instrumentation Co	Div Alberhill Corp 1118 Mission St S Pasadena Calif	43
Eagle Electric Mfg Co	23-10 Bridge Plaza Long Island City 1 NY	8-16-18-35-41
Eagle Signal Corp	202 20 St Moline Ill	36-40
Eastern Specialty Co	3617 N W St Phila 40 Pa	32
Ebert Electronics Corp	212-26 Jamaica Ave Queens Village 28 NY	1-13-18-23-40-45
Eby Co H H	4700 Germantown Ave Philadelphia 44 Pa	28
Edison Industries Thomas A Instrument Div	McGraw-Edison Co 5 Lakeside Ave W Orange NJ	39-40
Eitel-McCullough Inc	798 San Mateo Ave San Bruno Calif	45
Electrical Communications Inc	765 Clementina St San Francisco 3 Calif	38
Electrical & Physical Instrument Corp	42-19 27 St Long Island City 1 NY	3-18-19
Electro Contacts Inc	Main St Oterville Mass	4-21-30-31
Electro-Development Co	14701 Keawick St Van Nuys Calif	32
Electro-Etch Circuits Inc	3140 W Florence Ave Los Angeles 43 Calif	9-25

Electro Instrument Inc Aero Ct San Diego Calif	4-29-31	Gordos Corp 250 Glenwood Ave Bloomfield NJ	13-18-45	Lear Inc 110 Ionia Ave NW Grand Rapids 2 Mich	9-13
Electrola Inc 7517 N Clark St Chicago 26 Ill	12	Gorn Electric Co 845 Main St Stamford Conn	10-24-45	Lektra Labs Inc 154 11 Ave New York 11 NY	40
Electro-Miniatures Corp 1060 Elm Ave Ridgefield NJ	4-13-21-22-26-27- 30-31-32-34-37-38	Graphite Metallizing Corp 1092 Nepperhan Ave Yonkers NY	4-30	Lehland Inc G H 123 Webster St Dayton 2 Ohio	32-33
Electronic Products Div Post Machinery 140 Elliot St Beverly Mass	9	Grason-Stadler Co W Concord Mass Graybill Inc	9	Lewis Eng'g Co 339 Church St Naugatuck Conn	32
Electronic Specialty Co 5121 San Fernando Rd Los Angeles 39 Calif	2-3-9-20-21-24-26- 28-37-40-48	La Grange III Grigsby-Allison Co 407 N Salem Ave	7-9-21-22-25-28-31 32-34-35-46-47	Lico Inc 3610 Oceanide Rd Oceanside NY	20-48
Electro Snap Switch & Mfg Co 4218 W Lake St Chicago 24 Ill	15-17-21-23-28- 32-33-35-37-41	Arlington Heights Ill Guardian Electric Mfg Co 1621 W Walnut St Chicago 12 Ill	18-40	Linemaster Switch Corp Woodstock Conn	12
Electro Switch Corp King Ave Weymouth 88 Mass	21-29-32-35-37	Guenther Willy K G 39 Humboldt St Nuernberg Germany	18-40	Line Material Industries 700 W Michigan Milwaukee Wis	2-22-29
Electro Tec Corp 4 Romaneli Ave S Hackensack NJ	4-21-30-31-32-37-38	Halax Corp 17470 Shelbourne Way Los Gatos Calif	24	Logeman Co W 633 Bergen St Brooklyn 38 NY	9
Electro-Sony Co 480 Johnson Ave Brooklyn 87 NY	4-25-31-38	Hart Mfg Co 128 Bartholomew Ave Hartford 1 Conn	3-5-6-9-11-21-25-27- 31-32-33-37-40-41	Lohrs & Co C H 297 Hudson St Hackensack NJ	20
Ellison Draft Gage Co 548 W Monroe St Chicago 6 Ill	24-45	Haydon Co A W 232 N Elm St Waterbury 20 Conn	9-26-29-38-40	Luxor Lighting Products Inc 450 5 Ave New York 1 NY	31
Engineered Electronics Co 506 E 1 St Santa Ana Calif	36	Haydon Switch Inc 536 S Leonard St Waterbury Conn	13-17-21-22-23- 28-33-35-37-41	McGill Mfg Co Electrical Div 909 N Lafayette St Valparaiso Ind	9-17-18-21- 28-35-37-41
EPSCO Inc 588 Commonwealth Ave Boston 15 Mass	9	Heath Co 305 Territorial Rd Benton Harbor Mich	9	Maak Electric Devices Inc 48 Glenside Ave Wynote Pa	1-18
Era Eng'g Inc 1009 Montana Ave Santa Monica Calif	24	Heinemann Electric Co Pennsylvania Ave & Plum St Trenton 2 NJ	2	Magnavox Co 2131 Bueter Rd Ft Wayne Ind	4-31
Essex Mfg Co 8218 Gravois Ave St Louis 23 Mo	10-24-32-34-41-45	Hermetic Pacific Corp 4232 Temple City Blvd Rosemead Calif	13-18-21-45	Makepeace Div D E Englehard Industries Inc Pine & Denham Sta Attleboro Mass	30-31-32-38
Fansteel Metallurgical Corp 2290 Sherman Rd N Chicago Ill	1	Hetherington Inc Welmur Dr Folscroft Pa	5-12-15-16-17-19-21-23-28- 29-31-32-34-35-37-41	Mallory & Co Inc P R 42 S Gray St Indianapolis 6 Ind	7-9-14-15-17-21- 23-25-28-29-32-34- 35-36-37-38-41-46-47
Farmer Electric Products Co 2390 Washington St Newton Lower Falls 62 Mass	17-31	High Vacuum Equipment Corp 2 Churchill Rd Hingham Mass	45	Manning Maxwell & Moore Inc 250 E Main St Stratford Conn	9
Farnsworth Electronic Co Pacific Div 815 S San Antonio Rd Palo Alto Calif	21	Hughes Products Hughes Aircraft Co 5340 W 104 St Int'l Airport Sta Los Angeles 45 Calif	7-21-31-32-38-39	Mason Electric Corp 3839 Verdugo Rd Los Angeles 45 Calif	1-26-32-41
Federal Screw Products Inc 3017 N Kedzie Ave Chicago 18 Ill	34-35	Hummelby Inc 2885 Canon St San Diego Calif	34	Master Appliance Mfg Co 520 S St Racine Wis	41
Federal Electric Products Co 478 Warminster Rd Hatboro Pa	24	Illinois Tool Works Lion Div 2501 N Keeler Ave Chicago 39 Ill	13-17-21-35-37-41	Measurement Eng'g Ltd 232 John St Auriprior Ontario Can	8-26-28-40
Fischer & Porter Co 478 Warminster Rd Hatboro Pa	24	Industrial Instruments Inc 89 Commerce Rd Cedar Grove NJ	7-32	Mel-Hain Corp 2100 E Fletcher Ave Indianapolis 5 Ind	2
Fisher Co R H 40 Gough St San Francisco 3 Calif	12	Industrial Timer Corp 1407 McCarter Hwy Newark 4 NJ	26-40	Mercoid Corp 4201 Belmont Ave Chicago 41 Ill	18-24-45
Fisher Pierce Co 170 Pearl St SS Braintree 85 Mass	1	Instrument Development Labs Inc 67 Mechanic St Attleboro Mass	4-13-21-26-31-36-37-38	Mercury Contacts Inc P O Box 615-E Far Hills Sta Dayton 9 Ohio	18
Franklin Dales Co 180-184 E Mill St Akron 8 Ohio	2-39-40	Instruments Inc 122 N Madison St Tulsa Okla	9-17	Meredith & Co Ltd C C 80 Thomas St Streetville Ont Canada	12-28-35-40-43
Fredericks Co Geo E Bethayres Pa	18	Inasline Corp of America 186 Granite St Manchester NH	14-16-23-28-41	Metal & Controls Corp Spencer Thermostat Div 48 Forest St Attleboro Mass	2-18-21-28-30-39
Friez Instrument Div Bendix Aviation Corp 1400 Taylor Ave Baltimore 4 Md	24	International Instruments Inc Box 2954 New Haven 15 Conn	21-32	Microlab Okmer Pkwy Livingston NJ	20-41
F-H Machine Works Inc Electronic & X-Ray Div 26-12 Borough Pl Woodside 77 NY	3-9-20-48	I-T-E Circuit Breaker Co Special Products Div 601 E Erie Ave Philadelphia 34 Pa	48	Micro Switch Div Minneapolis-Honeywell Regulator Co Chicago & Spring Sts Freeport Ill	1-5-9-12-13-15-17-18- 21-22-23-24-27-28-29-32-33-34- 35-36-37-38-39-40-41-44
Furnas Electric Co 1000 McKee St Batavia Ill	1-5-16-12-17-24-28-29-32	Jaidinger Mfg Co 1921 W Hubbard St Chicago 22 Ill	17-28-35	Microtech Inc 2975 State St Hamden 17 Conn	21-48
Gallatin Co 361 Rockaway Ave Valley Stream NY	28	Janco Corp 3111 Winona Ave Burbank Calif	17-32	Microwave Associates Inc Burlington Mass	20
Gates Radio Co 128 Hampshire St Quincy Ill	1-26-29	Javes P O Box 646 Redlands Calif	3-5-32	Miller-Robinson Co 5007 Avalon Blvd Los Angeles 3 Calif	13-24
Gavitt Wire & Cable Co Central St Brookfield Mass	25	Jennings Radio Mfg Corp 970 McLaughlin Ave San Jose 8 Calif	45	Mill-Switch Corp 1742 Berkeley St Santa Monica Calif	13-17-21-22-28-35-37-41
G-C Electronics Div General Cement-Textron 400 S Wyman St Rockford Ill	9	Jerrold Electronics Corp 23 & Chestnut Sta Philadelphia 3 Pa	3	Minn-Honeywell Regulator Co Aeronautical Div 2506 Ridgeway Ave Minneapolis 13 Minn	9-24
Geo-Lar Mfg Co 418 S Wyman St Rockford Ill	2-3-5-9-28-29-31-34-35-41	JFD Electronic Corp 6101 16 Ave Brooklyn 4 NY	15-16-28-41	Minn-Honeywell Regulator Co Commercial & Residential Divs 2763 4 Ave S Minneapolis 8 Minn	1-17-18-24-40-45
General Bronze Corp 711 Stewart Ave Garden City NY	20	Jo-Bell Products Inc 5456 W 111 St Oak Lawn Ill	10	Minn-Honeywell Regulator Co Instruments Div Wayne & Windrim Aves Philadelphia 44 Pa	18
General Cement Mfg Co Div Textron Inc 400 Wyman St Rockford Ill	15-25-34-41	Johnson Co E W 206 2 Ave SW Waseca Minn	9	Molded Insulation Co 335 E Price St Philadelphia 44 Pa	28
General Communication Co 677 Beacon St Boston 15 Mass	3-20	J-V-M Eng'g Co 4633 S Lawndale Ave Lyons Ill	3-48	Mossman Inc Donald P P O Box 265 Brewster NY	10-28
General Control Co 1200 Soldiers Field Rd Boston 34 Mass	5-9-12-14-15-17-21- 26-28-29-35-41	Kahl Scientific Instrument Corp P O Box 1166 El Cajon Calif	15	Murphy Instruments Inc 675 3 Ave New York 22 NY	7-15-32
General Controls Co 301 Allen Ave Glendale 1 Calif	1-17-18-24-35-45	Kahn & Co 541 Windsor St Hartford 1 Conn	20-40	Murray Mfg Corp 1250 Atlantic Ave Brooklyn 16 NY	2
General Devices Inc P O Box 253 Princeton NJ	4-5-9-13-21-27-43	Kearfott Co Inc 14844 Oxnard St Van Nuys Calif	20	Muter Co 1255 S Michigan Ave Chicago Ill	2-14-34-40
General Electric Co Dist Assemblies Dept 41 Woodford Ave Plainville Conn	5-16-28-33-41	Kellogg Switchboard & Supply Co Div IT&T 79 W Monroe St Chicago 3 Ill	15	Myalex Corp of America 125 Clifton Blvd Clifton NJ	4-30-31-38
General Electric Co Apparatus Sls Div 1 River Rd Schenectady 5 NY	1-2-10-17-24- 28-29-35-40-45	Kidde & Co Walter 1156 Main St Belleville 6 NJ	24	Navigation Computer Corp 1621 Snyder Ave Phila Penna	9
General Electric Co 95 Hathaway St Providence 7 RI	11-15-18-29-41	Kinetics Corp 410 S Cedros Ave Solomon Beach Calif	1-4-5-13	Network Mfg Corp 213 W 5 St Bayonne NJ	35-41
General Electric Co Industry Control Dept P O Box 2488 Roanoke Va	1	Kings Electric Co Inc 40 Marbledale Rd Tuckahoe NY	3-14	Newark Controls Co 15 Ward St Bloomfield NJ	10-18-24-25
General Electric Co Ltd of England c/o IMTRA Corp 58 Charles St Cambridge 41 Mass	32-36	Kirkland Co H R 8 King St Morristown 4 NJ	28	Narco Products Mfg Co 392 Bleecker St New York 14 NY	11
General Findings & Supply Co Industrial Div Leach & Garner Bldg Attleboro Mass	1	Kistler Instrument Corp 15 Webster St N Tonawanda NY	9	North Electric Co 553 S Market St Galion Ohio	6-15-26-29-32-36-38-40
General Radio Co 275 Massachusetts Ave Cambridge 39 Mass	7	Kolton Electric Mfg Co 123 NJ Railroad Ave Newark 5 NJ	16	Norwood Controls Unit Detroit Controls Div American Standard 954 Washington St Norwood Mass	4-31
General Railway Signal Co P O Box 600 Rochester NY	1-15-28-29-32	Kulka Electric Mfg Co 633 S Fulton Ave Mt Vernon NY	11-41	Notman Mfg Co 1410 2 St SW Canton 2 Ohio	82
Genisco Inc 2233 Federal Ave Los Angeles 64 Calif	9	Land-Air Inc 7444 W Wilson Ave Chicago 31 Ill	29-31-32-36-38		
Giannini & Co G M 918 E Green St Pasadena Calif	24	La Pointe Industries Inc 155 W Main St Rockville Conn	25		
Glass-Solder Eng'g 4232 Temple City Blvd Rosemead Calif	13-15-21-45	Leach Corp Leach Relay Div 5915 Avalon Blvd Los Angeles 3 Calif	1		
Good Electric Corp Natick Mass Goodrich Aviation Products Div B F Goodrich Co 500 S Main St Akron 18 Ohio	24	Lear Inc 3171 S Bundy Dr Santa Monica Calif	24-26-41		

N R K Mfg & Eng'g Co 1601 W Addison St Chicago 41 Ill	20-48	Smith Inc Hernan H 2726 Nstrand Ave Brooklyn 10 NY	9-15-16-28-34-41	Vapor Recovery Systems Co 2820 N Alameda St Compton Calif	26-29-38
Oak Mfg Co 1260 N Clyburn Ave Chicago 10 Ill	2-5-7-21-23-25-28-29-32-31-35-36-37	Spectrol Electronics Div Carrier Corp 1704 S Del Mar Ave San Gabriel Calif	25-38	Venner Electronics Ltd Kingston Hy-Road New Morden Surrey England	40-43
Ohmite Mfg Co 3601 Howard St Skokie Ill	5-32	Stackpole Carbon Co St Marys Pa	31	Virginia Electronics Co River Rd & R & O R R Washington 16 DC	12-26
Opal Electric Co 29 Murray St New York 7 NY	9-40	Star-A Electric Mfg Co 269 Moore St Brooklyn 6 NY	39	Wade Electric Products Co Box 271 Sturgis Mich	23-25-34
O & S Research Inc 181 Barnard St Riverton NJ	28	Stevens Mfg Co P O Box 1007 Annex Mansfield Ohio	31	Walklet Co 111 W Hazel St Inglewood 3 Calif	9
Packard Bell Computer Corp 11766 W Pico Blvd Los Angeles 61 Calif	9	Stromberg-Carlson Div General Dynamics Corp 100 Carlson Rd Rochester 3 NY	15-28-36	Walco Electronics Mfg Co 100 W Green St Rockford Ill	5-9-15-16-27-28-29-34-37-41-42
Packard-Bell Electronics Corp 12334 W Olympic Blvd Los Angeles 64 Calif	25	Strong Electric Corp 87 City Park Ave Toledo 1 Ohio	32-42	Wang Labs Inc 37 Hurley St Cambridge 41 Mass	4
Painton & Co Ltd Box 132 Oakland Gardens 64 NY	21-24-32-35-41	Switchcraft Inc 1328-30 N Halstead St Chicago 30 Ill	5-14-15-19-21-28-41	Warren Mfg Co Newtown Rd Littleton Nuss Wausau Ind	20
Palmer Inc M V 4002 Fruit Valley Rd Vancouver Wash	36	Taber Instrument Corp 111 Gundry St N Tonawanda NY	43	Waveguide Inc 1487 Oxford St Van Nuys Calif	20
Parker Metal Goods Co 85 Front St Worcester 3 Mass	2-9-11-12-16-28-29-41	Tablet Mfg Co 1336 Hollentine Blvd Norfolk 12 Va	5-9-23	Waveline Inc P O Box 718 Caldwell NJ	20-48
Penn Controls Inc Goshen Ind	10-24-45	Ta-Mar Inc 11571 W Jefferson Blvd Culver City Calif	9	Weldtronic Co 19500 W N Mile Rd Detroit 19 Mich	9
Penta Laboratories Inc 312 N Nopal St Santa Barbara Calif	45	Tarc Electronics Inc 48 Urban Ave Westbury 11 NY	9	Western Int'l Co 45 Vesey St New York 7 NY	19-41
Peschel Electronics Inc 15 Garden St New Rochelle NY	9-22	Tarsian Inc Sarken 415 N College Ave Bloomington Ind	20	Westinghouse Electric Corp P O Box 868 Pittsburgh 30 Pa	1-2-5-10-11-12-17-24-28-32-33-35-43
Phila Scientific Glass Co Box 46C Palatowen Rd Quakertown Pa	5-9-13-15-23-45	Technical Appliances Corp 1 Tapp St Sherburne NY	31	White Electron Devices Inc Roper 92 4 Ave Haskell NJ	9
Philo Corp Tioga & C Sts Philadelphia 24 Pa	6	Technical Development Co 305 S Chester Pk Glenolden Pa	5	Wiancko Eng'g Co 255 Halstead St Pasadena Calif	4-35
Photo-Crystals 15 S 1st St Geneva Ill	18	Technical Oil Tool Corp 1057 N La Brea Los Angeles 38 Calif	4-9-48	Wileclator Co 1001 Newark Ave Elizabeth NJ	2
Pioneer Patents & Products Co 3730 N Mac England Ave Chicago 31 Ill	9-12-23-28	Techniques Inc 52 Jackson Ave Hackensack NJ	4-25-30-31-32	Wilson & Co G C 1915 N Ave Huntington 3 W Va	40
Pollak Corp Joseph 81 Freeport St Boston 22 Mass	5-7-21-24-29-32-35-41	Telrad Mfg Corp Route 69 Flemington NJ	20-48	Winslow Co 701 Lehigh Ave Union NJ	7-15-28-31-32
Polyscientific Corp College Ave Blacksburg Va	4	Telrad Mfg Corp 140 Broadway New York 18 NY	20-48	Winterburn Mfg Co 11 Whittemore St Putnam Conn	1-29-33
Portable Electric Tools Inc 239 W 81 St Chicago 20 Ill	10	Teltronic Labs Inc 1835 W Rosecrans Ave Gardena Calif	9	Wirt Co Continental Carbon Div 5221 Greene St Philadelphia 41 Pa	34
Potter & Brumfield Inc Laconia Div 54 Mill St Laconia NH	36	Teltronics Lab Inc 54 Kinkel St Westbury NY	9	Zenith Electric Co 132 W Wallon St Chicago 10 Ill	1-5-26-29-40
Premier Instrument Corp 52 W Houston St New York 12 NY	20-48	Tenax Electric Development Co 1875 Eastern Pkwy Brooklyn 33 NY	4-5		
Pyramid Instrument Corp 630 Merrick Rd Lynbrook LI NY	5-21-28-29-35-41	Thompson Products Inc Electronics Div 4196 Clarkwood Rd Cleveland 3 Ohio	3-20-15		
Reora Co 6100 S Archer Rd Summit Ill	12-15-21	Time Electronics Sales 873 Broadway New York 13 NY	2-3-9-13-28-37-41		
Relay Sales Inc P O Box 186 W Chicago Ill	36	Topp Industries Inc 8067 Wilshire Blvd Beverly Hills Calif	1		
Resistor Labs Inc 2908 Nebraska Ave Santa Monica Calif	5-15-45-47	Torsion Balance Co 35 Monhegan St Clifton NJ	41		
Revere Corp of America N Colony Rd Wallingford Conn	10-13	Touch-Plate Mfg Corp P O Box 1970 Long Beach 1 Calif	28-29		
R-F Electronics Inc King Ave Weymouth 88 Mass	21-32-37	Trad Television Co 1001 First Ave Asbury Park NJ	3		
Rhoson Inc M H 30 Bartholomew Ave Hartford Conn	40	Transco Products Inc 12210 Nebraska Ave Los Angeles 23 Calif	3		
Richards Electrocraft Inc 4132 N Kedzie Ave Chicago 18 Ill	5-14-21-28	Transistor Devices Inc 730 Blvd Kenilworth NJ	43		
Ripley Co 1 Factory St Middletown Conn	9	Transistor Electronics Co 3357 Republic Ave Minneapolis 26 Minn	28		
Roswell Corp 682 Pacific St Brooklyn 17 NY	28	Trans-Sil Corp 55 Honeck St Englewood NJ	42		
Robertshaw-Fulton Co Acro Div Columbus 16 Ohio	5-6-9-17-21-23-24-25-35-37-41	Transmitron Inc 186 Granite St Manchester NH	41		
Robertshaw-Fulton Controls Co Fulton Sylphon Div P O Box 400 Knoxville 1 Tenn	24	Transval Eng'g Corp 10401 W Jefferson Blvd Culver City Calif	18		
Rohlab Mfg Co 6 & Minor Sts Emmaus Pa	5-16-18-28-41	Trou-T Electronics Co Box 6352 Pasadena Calif	43		
Rohlf Co Topsfield Mass	5-9-14-15-16-19-21-23-24-25-34-45	Tru-Connector Corp 416 Union St Lynn Mass	5		
Sage Labs Inc 159 Linden St Wellesley 81 Mass	3-20	Tuttle & Kift Inc 1823 N Monitor Ave Chicago 39 Ill	32		
Sampson Chemical & Piement Corp 2830 W Lake St Chicago 12 Ill	9-13-18-21-23-37-45	Uemite Co Div United-Carr Fastener Corp 459 Watertown St Newtonville 60 Mass	19-28-32-33		
Sasagami Electric Co 1297 N 11th St Springfield Ill	33	Ulanet Co George 413 Market St Newark 5 NJ	39-40		
Sarrent Electric Corp 630 Merrick Rd Lynbrook NY	28-31-41	Unionax Switch Div W L Maxson Corp Ives Rd Wallingford Conn	17-23-27-33-35-37		
Sealco Controls Inc P O Box 41 Cooper St Delmar NJ	5-9-13-31-37-38-40	United Aircraft Products Inc 1116 Bolander Ave Dayton 5 Ohio	39		
Scandin Electronics Inc 11624 W Pico Blvd Los Angeles 64 Calif	9	United Control Corp 4540 Union Bay Pl Seattle 5 Wash	9-39		
Schrack Electrical Sales Corp 1100 Madison Ave New York 28 NY	1	United Electric Controls Co 85 School St Watertown 12 Mass	13-17-21-29-35-39-45		
Sealcraft Switch & Relay Corp 6025 N Keystone Ave Chicago 30 Ill	2-9-13-17-32-33-35-36-37	United Transformer Corp Pacific Div 4008 W Jefferson Blvd Los Angeles 16 Calif	13-26-32		
Serconic Instruments Inc 640 Terminal Way Costa Mesa Calif	24	Universal Circuit Controls Corp 3510 Dakton St Shakie Ill	14-15-28-31-33-35-40-44		
Sessions Clock Co 61 E Main St Forestville Conn	40	Unibase Inc 109 Marine St Farmingdale NY	20-32-48		
Shallcross Mfg Co Jackson & Pusey Aves Collingsdale Pa	6-7-9-21-28-32	U S Gauge Div American Machine & Metals Sellersville Pa	24		
Shepard Labs Inc Bronx St at Park Ave Summit NJ	9	U S Instrument Corp P O Box 1191 Charlottesville Va	32-36		
Sister Electric & Mfg Co 45 Sea Cliff Ave Glen Cove NY	8-13-18-35-41	Vacudent Mfg Co 975 E 6 St S Salt Lake City 2 Utah	9		
Slip Ring Co of America 3612 W Jefferson Blvd Los Angeles 16 Calif	38	Valandy Electronics Corp 61-35 166 St Flushing 68 NY	1		
		Valverde Labs 252 Lafayette St New York 12 NY	39		
		Vapor Heating Corp 80 E Jackson Blvd Chicago 4 Ill	4-9-15-18-32-37-39		

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Arme Electric Corp Water St Cuba NY	13
Adler Electronics Inc 1 Lefevre Lane New Rochelle NY	12
Admittance Nameo Corp Marine St Farmingdale LI NY	14
Advanced Electronics Inc 94 Silas Deane Hwy Rocky Hill 9 Conn	24
Advance Industries Inc 640 Memorial Dr Cambridge 39 Mass	12
Advance Instrument Corp 1709 F St Belmar NJ	19
Aero Electronics Co 1512 N Wells St Chicago 10 Ill	19
Aeroflex Labs 31-06 Skillman Ave Long Island City 1 NY	24
Aerolite Electronics Corp 2207 Summit Ave Union City NJ	18
Aerophysics Dev Corp Sub Curtiss-Wright Corp P O Box 689 Santa Barbara Calif	16-20
Aerotron Associates Box 419 Concord NH	1-14-17
Aerovox Corp 740 Belleville Ave New Bedford Mass	3-6
Airborne Instruments Lab Inc 150 Old Country Rd Mineola NY	9-10
Aircraft Armaments Inc Cherry Tree Rd Box 126 Cockeysville Md	12-17
Airmec Ltd High Wycombe Buckinghamshire England	13-21

Airtron Inc 1108 W Elizabeth Ave Linden NJ	14-17	Calif Technical Industries Div Textron Inc 1421 Old County Rd Belmont 10 Calif	2-3-5-8-13-14-16-17	Electronic Control Systems 2231 Herrington Ave Los Angeles 64 Calif	3-10-21
Alear Instruments Inc 17 Industrial Ave Little Ferry N J	20	Canadian Applied Research Ltd 1500 O'Connor Dr Toronto 16 Can	7	Electronic Instrument Co 84 Withers St Brooklyn 11 NY	1-21-22
All American Tool & Mfg Co 8027 Lawndale Ave Skokie Ill	24	Canoga Corp 5955 Sepulveda Blvd Van Nuys Calif	12-17	Electronic Measurements Corp 625 Broadway New York 12 NY	16-21-22-24
Allisany Instrument Co 1091 Wills Mountain Cumberland Md	5-12	Carol Electronics Corp 315 W Stephen St Martinsburg W Va	16-23	Electronic Production & Development 138 Nevada St El Segundo Calif	2-5-8-18
Amelec Inc 2040 Colo Ave Santa Monica Calif	12	Central Electronics Inc 1247 W Belmont Ave Chicago 13 Ill	4	Electronic Research Associates 67 Factory Pl Cedar Grove NJ	21
America Inc 116 Topsfield Rd Wenham Mass	14	CG Electronics Corp 1500 Central St Albuquerque NM	21	Electronic Specialty Co 5121 San Fernando Rd Los Angeles 39 Calif	12-14-15
America Inc Dunham Rd Beverly Mass	14	Chatillon & Sons John 85 Cliff St New York 38 NY	15	Electronic Test Equip 29166 Wixom Rd Wixom Mich	4-5
American Machine & Foundry Co Electronics Div 1085 Commonwealth Ave Boston 15 Mass	12	Chemalloy Electronics Corp Gillespie Airport Santee Calif	14	Electro Systems Inc 1055 Westminster Ave Alhambra Calif	5
American Machine & Foundry Co Defense Products Group 1101 N Royal St Alexandria Va	7-8-10-12-15-17-19-20-24	Chesapeake Instrument Corp Shadyside Md	24	Elk Electronics Labs Inc 333 W 52 St New York 9 NY	3-6-11-16-17-21-23
American Rectifier Corp 95 Lafayette St New York 13 NY	1	Chicago Industrial Instrument Co 865 N Sangamon St Chicago 22 Ill	1-3-4-5-6-8-10-16-21	Endeco Corp 161 E California St Pasadena Calif	24
American Scientific Development 336 S Main St Fort Atkinson Wis	22	Christie Electric Corp 3410 W 67 St Los Angeles 43 Calif	1	Engineering Associates 434 Patterson Rd Dayton 9 Ohio	14
Anchor Products Co 2112 W Bronzono Ave Chicago 18 Ill	4	Chromatic Television Laboratories 1501 Broadway New York 36 NY	17	Erdo Eng'g Corp Official & Westgate Addison Ill	3
Anchor Specialty Mfg Co 300 Hollister Rd Teterboro NJ	1-2-5	Cinema-Television Ltd Worsley Bridge Rd Lower Sydenham London S E 26 England	4-22	Erwood Inc 1770 W Berteau Ave Chicago 13 Ill	24
Anko Mfg Co 5042 W State St Milwaukee 8 Wis	22	Clevite Corp Texas Div 3532 Westmeier Rd Houston 6 Texas	19	Fairchild Publications 1212 Chestnut St Phila 7 Pa	18
Apparatus Development Co 115 Main St Wethersfield 9 Conn	5-23	Clifton Precision Products Co 9014 West Chester Pike Upper Darby Pa	19	Farnsworth Electronics Co Div I T & T 3702 E Pontiac St Ft Wayne Ind	4-12-14-17
A R F Products Inc P O Box 57 Ranton NM	17	Columbia Research Labs MacDade Blvd & Bullens La Woodlyn Pa	24	Feiler Eng'g & Mfg Co 8000 W Monticello Ave Skokie Ill	5-8-15
Argonne Electronics Mfg Corp 165-11 South Rd Jamaica 33 NY	16	Computing Devices of Canada Ltd P O Box 508 Ottawa Ontario Can	4-7-17	Ferratran Electronics Co 693 Broadway New York 12 NY	21
Associated Missile Products Sub American Mch & Fdry 2709 N Garey Ave Pomona Calif	12-19	Consolidated Avionics Corp 800 Shames Dr Westbury NY	1-7-12-17-21	First Electronics Corp 117 Blue Hill Ave Boston 19 Mass	2
Associated Research Inc 3777 W Belmont Ave Chicago 18 Ill	2-3-5-6-8-13-16	Consolidated Electrodyamics Corp 300 N Sierra Madre Villa Pasadena Calif	24	Fleetwood Labs Inc 300 Victory Blvd New Rochelle NY	18
Atlas Precision Products Co 3801 Castor Ave Philadelphia 24 Pa	5-8-12-17-21-22	Convair-San Diego P O Box 1950 San Diego 12 Calif	12-17	Flood Mfg Co 2220 Pearsall Ave New York 69 NY	5
Atronic Products Inc 1 Bala Ave Bala Cynwyd Penna	21	Cornell-Dubilier Electric Corp 333 Hamilton Blvd S Plainfield NJ	3	Ford Instrument Co Div Sperry Rand Corp 31-10 Thomson Ave Long Island City 1 NY	7-12-19
Audson Electronics Inc 216 Lyon St Paterson 4 NJ	2-5-8-14-16-17-21	Cosser Canada Ltd 301 Windsor St Halifax Nova Scotia Canada	20-21	Fox Products Co 4720 N 1st St Phila 41 Pa	1
Audio Accessories 279 Broadway Amityville NY	2	Craft Labs 209 Ayliffe Ave Westfield NJ	5	Freed Transformer Co 1718-36 Weirfield St Brooklyn 27 NY	6-11
Audio Instrument Co 133 W 14 St New York 11 NY	11	Cubic Corp 5575 Kearny Villa Rd San Diego 11 Calif	21	F-R Machine Works Inc Electronic & X-Ray Div 26-12 Borough Pl Woodside 77 NY	14
Authorized Mfr Service Co 918 Wyckoff Ave Brooklyn 27 NY	5	Cunningham Son & Co James 33 Litchfield St Rochester 9 NY	2-3-5-6-8-13-22	Gates Electronics Co 2090 Barnes Ave Bronx 42 NY	1
Automation Instruments Inc Industrial Pk Boulder Colo	20	Curtiss Wright Corp 631 Central Ave Carlstadt NJ	22	General Communication Co 677 Beacon St Boston 15 Mass	14-17
Auto Test Inc 600 S Michigan Ave Chicago 5 Ill	1	Custom Scientific Instruments Inc 511 Devon St Woodside 77 NY	13	General Electric Co Apparatus Sls Div 1 River Rd Schenectady 5 NY	18-24
Auto Test Inc 111 W 4th St Neillville Wis	1-6-15	Dante Electric Co Bantom Conn	8	General Electric Co Missile Production Sec Lakewood Ave Burlington Vt	13
Avionics Ltd P O Box 200 Niagara-On-The-Lake Ontario Canada	21	Datsaran Inc 45 Notch Rd Little Falls NJ	3-18-22	General Kinetics Inc 555 23 St S Arlington 2 Va	7
Avtron Mfg Inc 10409 Meech Ave Cleveland 5 Ohio	12	Daven Co Route 10 Livingston NJ	5-8-10-12-16-21	General Precision Lab Inc 21 N Santa Anita Ave Pasadena 8 Calif	17
Bach-Simpson Ltd 1255 Brydges St London Ont Canada	1-3-16	Davenport Mfg Co 1713 N Ashland Ave Chicago 22 Ill	2-3-5-6-8-13-15	General Scientific Equipment Co 7516 Limekiln Pike Phila 60 Pa	1
Baird-Atomic Inc 33 University Rd Cambridge 38 Mass	21	Demoray-Bonardi Corp 780 S Arroyo Pkwy Pasadena Calif	14	General Transistor Corp 91-27 138 Place Jamaica 35 NY	21
Barber Labs Alfred W 32-44 Francis Lewis Blvd Flushing 58 NY	21	Designers for Industry 4241 Fulton Pkwy Cleveland 9 Ohio	7-12-17	Genisro Inc 2233 Federal Ave Los Angeles 64 Calif	24
Barker & Williamson Inc Canal & Beaver Sts Bristol Pa	11	Dice Co J W 16 Highwood Ave Englewood NJ	20	Geotechnical Corp 3712 Haggard Dr Dallas 9 Texas	24
Barnes Development Co 213 W Baltimore Ave Lanadowne Pa	3-6-9-10-21	Digit-1 Equin Corp Maynard Mass	7	Goodyear Aircraft Corp 1210 Massillon Rd Akron 15 Ohio	12-17
Barnett Instrument Co Kraft St Clarksville Tenn	1-3-5-6-8-16-23	Digitronics Corp Albertson Ave Albertson LI NY	7	Gordon Enterprises 5362 N Cahuenaga Inc N Hollywood Calif	2-3-5-8-12-13-15-24
Beckman Instruments Inc Data & Control Systems Scientific Instrument Div 325 N Muller Ave Anaheim Calif	7-8	Dit-Mec Inc Electronics Div 911 Broadway Kansas City Mo	2-5-7-8-12-13-16	Gotham Audio Development Corp 2 W 46 St New York 36 NY	15
Bendix Aviation Corp 1104 Fisher Bldg Detroit 2 Mich	12	Donner Scientific Co 898 Galindo St Concord Calif	5	Graham Research Inc 666 22 Ave NE Minneapolis 18 Minn	3-5-6
Bergen Labs 247 Crooks Ave Clifton NJ	16	DuMont Labs A R 750 Bloomfield Ave Clifton NJ	4-17-19	Granger Associates 966 Commercial St Palo Alto Calif	14-17
Beta Electric Div Sorenson Co 333 E 103 St New York 29 NY	2-13	Dunn Eng'g Associates 2250 Brien Hwy Cambridge 39 Mass	12-21	Gray Instrument Co 200 E Church Lane Philadelphia 44 Pa	19
Biddle Co James G 1016 Arch St Philadelphia 7 Pa	2-8-18	Dynamic Instrument Corp 59 New York Ave Westbury NY	15-18	Green Rectifier Co 1-10 30 St Fairlawn NJ	1
Bishop Die-Engraving 1405 16th St Racine Wis	15	Eagle Electric Mfg Co 23-10 Bridge Plaza Long Island City 1 NY	5-15	Grem Eng'g Co 923 Longview Rd King of Prussia Pa	14-17
B & K Mfg Co 3726 N Southport Chicago Ill	4-5-6-21-22-23	Eastern Special Co 3617 N 8 St Phila 40 Pa	13-18	Gulton Industries Inc 212 Durham Ave Metuchen NJ	20-21
Bliss Electronic Corp Box 355 Sussex NJ	2-5-8-18-18	Elec Corp M St below Erie Ave Philadelphia 24 Pa	23	Hallamore Electronics Co 8352 Brookhurst Ave Anaheim Calif	13
Bolton Electronics Corp 738 Speedwell Ave Morris Plains NJ	3-11	Ely Sales Co 130 Lafayette St New York 18 NY	4-5-10-21	Haller Raymond & Brown Circleville Rd State College Pa	12-14-17-21
Branson Instruments Inc Branson Ultrasonic Corp 37 Brown House Rd Stamford Conn	20	Electric Boat Div General Dynamics Eastern Point Rd Groton Conn	24	Harvey-Wells Electronics Inc North St Southbridge Mass	7
Briggs Associates Bright Star Industries 600 Getty Ave Clifton NJ	8	Electro Instrument Inc Aero Ct San Diego Calif	7	Health Co 305 Territorial lld Benton Harbor Mich	1-3-4-5-6-8-11-16
Bristol Co P O Box 1790 El Waterbury Conn	5	Electro-Measurements Inc 7524 S W Macadam Ave Portland 1 Ore	19	Hewson Co 443 Broad St Newark 2 NJ	2-4-8-13-15-23
Bruno-New York Industries Corp 460 W 34 St New York 1 NY	14	Electro-Mechanical Div General Rivertera Inc 785 Hertel Ave Buffalo 7 NY	15	Hickock Electrical Instrument Co 10514 Dupont Ave Cleveland 8 Ohio	1-3-4-5-6-16-22
Brush Instruments 8405 Perkins Ave Cleveland 14 Ohio	24	Electronic Associates Inc Long Branch NJ	7	Hoover Electric Co 2100 S Stoner Ave Los Angeles Calif	21
Butcher Co L H 3628 E Olympic Blvd Los Angeles Calif	20	Electronic Brazing Co 140 Glenridge Ave Montclair NJ	18	Hoover Electronics Co 112 W Timonium Rd Timonium Md	12-18
Calidyne Co 120 Cross St Winchester Mass	24			Hunter Tools 9851 Alhuria Ave Santa Fe Springs Calif	5-8
				Ideal Industries Inc 5127 Park Ave Sycamore Ill	5-6
				Impact-O-Graph Corp 1900 Euclid Ave Cleveland 15 Ohio	24
				Indikon Co 76 Coolidge Hill Rd Watertown 72 Mass	3

Industrial Control Co 805 Albin Ave Lindenhurst LI NY	1-3-5	Muirhead Instruments Inc 677 5 Ave New York 22 NY	19	Rese Eng'g Inc 751 Arch St Philadelphia 6 Pa	7
Industrial Instruments Inc 89 Commerce Rd Cedar Grove NJ	7	Multi-Amp Corp 465 Lehigh Ave Union NJ	2-5-8-10-13-18	Rheem Mfg Co Electronics Div 777 Industry Ave Downey Calif	1-12-16-17-22
Ind Test Equip Co 55 E 11th St New York 3 NY	3-5-6-7-19	Narda Microwave Corp 118-160 Herricks Rd Mineola NY	14	Rich Electronics Inc 212 NW 8 Ave Miami 36 Fla	9
Industrial Research Labs Div Aeronca Mfg Corp Hilltop & Frederick Rds	1-2-3-4-5-6-7-8-9- 12-14-16-17-19	National Aircraft Corp Electronics Div 3411 Tulare Ave Burbank Calif	21	Roslale Mfg Co 6 & Minor Sts Emmaus Pa	5
Industrial Transformer Corp Gouldsbury Pa	13	National Capacitor Co 18 Welster St Brookline 46 Mass	3	Rue Products 1628 Venice Blvd Venice Calif	1-2-5-6-8-9-10-21-22-23
Industrial Winding Machinery Co 120 Wall St New York 5 NY	6	National Electric Oil Co 800 King Ave Columbus 16 Ohio	15	Schaffer Air Industries 290 N Henry St Brooklyn 22 NY	5-8-12
Inaco Co Div Harry Controls Hollis St Groton Mass	4	National Instrument Labs Inc 828 Evaria St NE Washington DC	5	Seco Mfg Co 5015 Penn Ave S Minneapolis 19 Minn	5-6-8-22-23
Instrument Labs 315 W Walton Pl Chicago 10 Ill	5-16	National Pneumatic Co Inc 125 Amory St Boston 19 Mass	13	Service Instruments Corp 171 Official Rd Addison Ill	3-8-10-21
International Business Machines Corp 590 Madison Ave New York 23 NY	22	Naylor Laboratories Inc E V 26 Manorhaven Blvd Port Washington NY	18	Servomechanisms Inc 12500 Aviation Blvd Hawthorne Calif	12
International Electronics Corp 81 Spring St New York 12 NY	21-22	Network Mfg Corp 213 W 5 St Hayonne NJ	3	Servo-Tek Products Co 1086 Goffe Rd Hawthorne NJ	16
Int'l Equip Co 1284 Soldiers Field Rd Boston 35 Mass	10-21	Nevada Air Products Co P O Box 2472 Reno Nev	14-17	Shallcross Mfg Co Jackson & Pusney Aves Collingdale Pa	2
International Instruments Inc Box 2954 New Haven 16 Conn	16	Nichols & Clark Inc 321 Newburyport Tpk Danvers Mass	21	Shelard Labs Inc Broad St at Park Ave Summit NJ	22
International Research Associates 2221 Warwick Ave Santa Monica Calif	21	Non-Linear Systems Inc Del Mar Airport Del Mar Calif	16	Shurite Meters 61 Hamilton St New Haven 8 Conn	1
Jackson Electrical Instrument Co 18 S Patterson Blvd Dayton 2 Ohio	2-4-5-22	Norden-Ketay Corp Commerce Rd Stamford Conn	7-12-17-19-21	Simmonds Aerocessaries Inc Vergennes Vt	3-5-8-13-21
Janco Corp 3111 Winona Ave Burbank Calif	2	Northeast Electronics Corp Airport Rd Concord NH	14-17	Simpson Electric Co 5200 W Kinzie St Chicago 14 Ill	1-3-5-8-21-22
Johnson Aircraft Eng'g Co Geophysical Services Div P O Box 10 Morristown NJ	2-10-21	Nuclear-Electronics Corp 2632 W Cumberland St Philadelphia 32 Pa	13-17	Sittler Corp 18 N Ada St Chicago 7 Ill	5-8
J-V-M Eng'g Co 4633 S Lawndale Ave Lyons Ill	17	Nuclear Products-Ero Riverdale Md	12	Size Control Co Div American Gage & Machine Co 2500 W Washington Blvd Chicago 12 Ill	23
Kahl Scientific Instrument Corp P O Box 1166 El Cajon Calif	1	Overline Inc P O Box 921 Beverly Hills Calif	5	Slaughter Co Young and College Sts Piqua 9 Ohio	2-3-5-6-8-13-15-14
Kahn & Co 541 Windsor St Hartford 1 Conn	12-18-20-24	Quad Electric Co 69 Murray St New York 7 NY	1-2-5-8-15-18	Sonex Inc 73 S State Rd Upper Darby Pa	21
Kaiser Aircraft & Electronics Corp Toledo Electronics Div P O Box 437 Toledo Ohio	7-12-14-17-21	Optimized Devices Inc Box 38 Gedney Sta White Plains NY	7-8	Sorenson Industrial Electric Co Route 10 Dover NJ	22
Kartron P O Box 472 Huntington Beach Calif	6	Optron Corp 3526 State St Santa Barbara Calif	24	Southwestern Industrial Electronics Co 2931 Post Oak Rd Houston 13 Texas	16-24
Kay Electric Co 14 Maple Ave Pine Brook NJ	21-24	Pacific Semiconductor Inc 10451 W Jefferson Blvd Culver City Calif	10-21	Specialty Eng'g & Electronics Co 79 Clifton Pl Brooklyn 38 NY	2-12-16-17
Kearfoot Co Inc 1378 Main Ave Clifton NJ	8-12-14-15-19	Pacific Technical Co 2047 Sawtelle Blvd Los Angeles 25 Calif	15	Sperry Gyroscope Co Sunnyvale Div Center 204 Commercial St Sunnyvale Calif	12
Kearfoot Co Inc 14844 Onard St Van Nuys Calif	17	Paco Electronics Co Inc 70-31 94th St Glendale 27 LI NY	3-5-10-16-21-22	Sperry Products Inc Shelter Rock Rd Danbury Conn	20
Keystone Electronics Corp 49 Hleecker St New York 12 NY	5-8	Panelit Inc 7401 N Hamlin Ave Skokie Ill	2	Sprague Electric Co Marshall St North Adams Mass	3
Kinetica Corp 410 S Cedron Ave Solomon Beach Calif	13	Parsons Co Ralph M Electronics Div 151 S De Lacey Ave Pasadena Calif	12	States Co 19 New Park Ave Hartford 6 Conn	13-18
Kingston Electronic Corp North St Medfield Mass	5-17	Penchel Electronics Inc 13 Garden St New Rochelle NY	2-3-5-8-13	Sticht Co Herman H 27 Park Pl New York 7 NY	5-8-13
Kit-Tronics 2315 Hendola Dr NE Albuquerque New Mex	21	Phaotron Instrument & Electronic Co 151 Pasadena Ave S Pasadena Calif	5-8-16	Stromberg-Carlson Div General Dynamics Corp 100 Carlson Rd Rochester 3 NY	12-15
Kultron Electric Mfg Co 123 NJ Railroad Ave Newark 6 NJ	2	Phileo Corp Tioga & C Sts Philadelphia 24 Pa	3-12-14	Sun Electric Corp Harlem & Avondale Ave Chicago 31 Ill	1-2-3-4-5-6-8-12-13-15
Kusa Industries Inc Tacony & Lewis Sts Philadelphia 24 Pa	4-22	Photobell Co 43 Vesey St New York 7 NY	6-20	Taffet Radio & TV Co 27-05 Brooklyn-Queens Expressway W Woodside 77 NY	2-8-18
L&B Corp E Onondaga Skaneateles NY	24	Physics Research Labs Inc P O Box 555 Hempstead NY	5	Takk Corp P O Box 346 Newark Ohio	15
Laboratory Fur Electronics Inc 75 Pitts St Boston 14 Mass	14-17	Polarad Electronics Corp 43-20 34 St Long Island City 1 NY	12-14-17	Tarc Electronics Inc 48 Urban Ave Westbury LI NY	11
Land-Air Inc 7444 W Wilson Ave Chicago 31 Ill	12-24	Polyphase Instrument Co E 4 St Bridgeport Pa	21	Tatnall Measuring Systems Co P O Box 245 Phoenixville Pa	24
Lavoie Labs Inc Mattawan-Freehold Rd Morganville NJ	2-5-8	Polytechnic Research & Development Co 202 Tillary St Brooklyn 1 NY	14	Technical Oil Tool Corp 1057 N La Brea Los Angeles 38 Calif	7-12-14-17
Lehigh Valley Electronics Eng'g & Mfg Co 215 S 3 St Allentown Pa	9	Precise Measurements Corp Rd 1 Millbrook Rd Flemington NJ	2-6-15	Technitrol Eng'g Co 1952 E Allegheny Ave Philadelphia 34 Pa	10
Link Aviation Inc Binghamton NY	2	Precision Apparatus Co 50-31 84 St Glendale 27 LI NY	4-5-10-16-21-22	Teletelco Industries Corp 35-18 37 St Long Island City 1 NY	2-8-5-7-12-17
Liquidometer Corp 41-03 36 St Long Island City 1 NY	3	Pye Canada Ltd 82 Northline Rd Toronto 18 Ontario Canada	5-6	Telematic Industries Inc 16 Howard Ave Brooklyn 7 NY	4
Liton Industries of Calif 336 N Foothill Rd Beverly Hills Calif	12	Pyelocorp Newmarket Rd Cambridge England	14-16	Telerad Mfg Corp Route 69 Flemington NJ	12-14-17
Mack Electronics Div Inc 1000 S 2 St Plainfield NJ	10-16-21	Quantum Electronics Inc 2312 Wisconsin St NE Albuquerque N Mex	21	Telerad Mfg Corp 1440 Broadway New York 18 NY	12-14-17
Magnaflex Corp 7300 W Lawrence Ave Chicago 31 Ill	20	Radar Design Corp 2360 James St N Syracuse 12 NY	14	Teletest Instrument Corp 136-10 31 Rd Flushing 54 NY	3-4-6-22
Magnavox Corp 2131 Hueter Rd Ft Wayne 4 Ind	18	Radar Engineers 401 E 45 St Seattle 5 Wash	2	Teletronics Lab Inc 54 Kinkel St Westbury NY	10
Magnetic Amplifiers Inc 632 Tinton Ave New York 55 NY	21	Radiation Inc P O Box 87 Melbourne Fla	11-12	Televico Corp 1415 Golf Rd Des Plaines Ill	24
Manson Laboratories Inc 207 Greenwich Ave Stamford Conn	2-4-13-22	Radio City Products Co Centre & Glendale Sts Easton Pa	1-2-3-4-5-8-9-10- 12-16-17-18-21-22	Tempco Aircraft Corp P O Box 6191 Dallas 2 Texas	12
Martindale Electric Co Box 617 Edgewater Branch Cleveland 7 Ohio	5-6-13-16	Radio Corp of America Commercial Electronic Products Fruyt & Cooper Sts Camden NJ	22-23	Theta Instrument Corp 48 Pine St E Paterson NJ	19
Maxxon Corp W L 475 10 Ave New York 18 NY	17	Radio Corp of America Electron Tube Div Harrison NJ	21-22	Topatron Inc 942 E Ojai Ave Ojai Calif	22-24
MB Mfg Co Div Textron Inc P O Box 1825 New Haven 11 Conn	24	Radio Frequency Labs Inc Boonton NJ	9-13	Touch-Plate Mfg Corp P O Box 1970 Long Beach 1 Calif	18
Measurement Eng'g Ltd 232 John St Auriprior Ontario Can	4-9-10	Radio Kita Inc 120 Cedar St New York 6 NY	3-6-9-21	Towaco Electronics Pine Brook Rd Towaco NJ	11
Meltronic Inc 75 Wilson Mills Rd Chesterland Ohio	3-31	Rawson Electrical Instrument Co 116 Potter St Cambridge 42 Mass	16	Transdyne Corp 58-15 57th Dr Maspeth 78 NY	12
Miller Associates P O Box 869 Lakeville Conn	17	Rectifier Eng'g Co 1803 E 7 St Los Angeles 21 Calif	1-2	Trans Electronics Inc 7349 Canoga Ave Canoga Park Calif	10-21
Millitest Co 88 Madison Ave Hempstead NY	8-19	Reyes Instrument Corp Roosevelt Field Garden City NY	9	Translator Devices Inc 730 Blvd Kenilworth NJ	10
Minn-Honeywell Heiland Div 5200 E Evans Ave Denver 22 Colo	12-24	Republic Aviation Corp Farmingdale LI NY	1-2-5-6-8-12-13-16-17-18	Transistor Electronics Corp 3357 Republic Ave Minneapolis 26 Minn	21
Minn-Honeywell Boston Div 1400 Soldiers Field Rd Boston 35 Mass	19	Rendel Eng'g Corp 330 S Fair Oaks Ave Pasadena Calif	12-14-17-22	Transitron Inc 186 Granite St Manchester NH	13
Minn-Honeywell Regulator Co Aeronautical Div 2600 Ridgeway Ave Minneapolis 13 Minn	2-8-5-6-7-8-12- 13-16-19-21-23	Research Industrial Lab of Electronics Rosllyn Pa	4-20-21-22	Tranaval Eng'g Corp 10401 W Jefferson Blvd Culver City Calif	2
Minn-Honeywell Regulator Co Rubicon Instruments Ridge Ave at 35 St Philadelphia 32 Pa	19			Triplett Electrical Instrument Co Harmon Rd Bluffton Ohio	16-21-22

Trump Dr Walter N	
516 S Vermont Columbus Kan	13
Union Switch & Signal Div	
1789-1807 Bradlock Ave Swissvale P O	
Pittsburgh Pa	16
United Electrolytics	
1200 S Marengo Ave Pasadena Calif	12
United Mfg Co Div W L Maxson Corp	
41 Haig St Hamden 14 Conn	12-15
United Mineral & Chemical Corp	
16 Hudson St	
New York 33 NY	2-3-6-11-13-15
Unit Process Assemblies Inc	
61 E 4 St New York 3 NY	20
Uniwave Inc	
109 Marine St Farmingdale NY	14
U S Plastic Molding Corp	
Carlton St Wallingford Conn	2
Valand Electronics Corp	
61-35 165 St Flushing 64 NY	1-4-10-21
Van Nurman Industries Inc Electronics Div	
186 Granite St Manchester NH	13
Varo Mfg Co	
2201 Walnut St Garland Texas	12
Vectron Inc	
1611 Trapelo Rd Waltham 54 Mass	12-14-17
Virginia Electronics Co	
River Rd & R & O R R	
Washington 16 DC	2-5
Via-U-All Corp	
3325 W Hryn Mawr Ave Chicago 43 Ill	4-22
Voron & Co George	
835 N 19 St Philadelphia 30 Pa	3-10-13-18
Wacine Inc	
35 S St Clair St Dayton 2 Ohio	14
Waldorf Instrument Co Div F C Huyck & Son-	
Park Ave Huntington Station NY	7-17-19
Wallon Associates	
963 Frelinghuysen Ave Newark 12 NJ	9-10
Warren Mfg Co	
Newtown Rd Littleton Mass	11
Waveline Inc	
P O Box 718 Caldwell NJ	14
Wayne-Kerr Inst	
P O Box 801 Phila 5 Pa	21
Westberg Mfg Co	
144 S Coombs St Napa Calif	15
West Coast Electronics Co	
9261 W 3 St Beverly Hills Calif	12
Westinghouse Electric Co Div Air Arm Div	
P O Box 746 Friendship Int'l A P	
Baltimore Md	17
Weston Electrical Instrument Corp	
614 Frelinghuysen Ave Newark 12 NJ	5
Willard Storage Battery	
246 E 131 St Cleveland 1 Ohio	4
Winkler Labs	
5225 N 20 St Phoenix Ariz	21
Winslow Co	
701 Lehigh Ave Union NJ	2-13
Wright Equipment Co	
128 N Main St Milltown NJ	4-21-22
Yerly & Co	
744 Broad St Newark 2 NJ	16
Zernickow Co O	
15 Park Row New York 38 NY	15
Zona Eng'g Co	
6355 Kenmore Ave Los Angeles 6 Calif	18

93—TOOLS, HAND

Alignment tools	1
Bridges, hacksaw	2
Cutters, hole	3
Cutters, slide	4
Cutters, wire	5
Drills, electric	6
Drills, hand	7
Drills, twist	8
Drivers, staple	9
Etchers, electric	10
Files	11
Hammers	12
Holders, chassis	13
Knob pullers	14
Lenses, inspection	15
Marking stamps	16
Micrometers	17
Mirrors, inspection	18
Pliers	19
Punches	20
Ratchet wrenches	21
Rivet tools	22
Saws	23
Scales & tapes	24
Scissors	25
Screwdrivers	26
Snips	27
Solder pots	28
Soldering guns	29
Soldering iron stands	30
Soldering iron tips	31
Soldering irons	32
Splicing tools	33
Staplers	34
Terminal lug swaggers	35

Tube pin straighteners	36
Tube pullers	37
Tweezers	38
Vises	39
Wire strippers, mechanical	40
Wrenches	41

Acme Electric Heating Co	
1217 Washington St Boston 18 Mass	28
Acme Industrial Co	
200-222 N LaSalle St Chicago 7 Ill	15-17-18
Acromark Co	
309 Morrell St Elizabeth NJ	10-16
Aero Tool & Die Works	
4554 Broadway Chicago 40 Ill	13-16
American Optical Co Instrument Div	
Box A Buffalo 15 NY	17
Amphenol Electronics Corp	
1830 S 54 Ave Chicago 50 Ill	1
Amp Inc	
Eisenhower Blvd Harrisburg Pa	33
Anchor Products Co	
2712 W Montrose Ave Chicago 18 Ill	32
Annis Co R B	
1181 N Delaware St Indianapolis 2 Ind	10
Armstrong Hros Tool Co	
5200 W Armstrong Ave Chicago Ill	41
Atlantic & Pacific Wire & Cable Co	
112-01 Northern Blvd E Elmhurst 11 NY	40
Auto Test Inc	
600 S Michigan Ave Chicago 5 Ill	18
Bausch & Lomb Optical Co	
628 St Paul St Rochester 2 NY	15-18
Benchmark Mfg Co	
1855 W Rosecrans Ave Gardena Calif	39
Bionder-Tongue Laboratories	
9-25 Alling St Newark 2 NJ	10
British Electronic Sales	
Oakland Gardens Flushing 64 NY	36-37
Brown & Sharpe Mfg Co	
235 Promenade St Providence 1 RI	17-24-39
Buchanan Electrical Products Corp	
225 Route 22 Hillsdale NJ	55
By-Buk Co	
4114 W Pico Blvd Los Angeles 19 Calif	1-35
Carpenter Manufacturing Co Inc	
P O Box 217 Desitt 14 NY	32-40
Chase Mfg Co	
329 W Washington Pasadena Calif	28
Clauson Cutley Co	
223 Prospect St Fremont Ohio	25-27-38
Cole Radio Works	
86 Westville Ave Caldwell NJ	21-32
Cook Research Labs	
P O Box 696 Menlo Park Calif	5
Croname Inc	
3701 Ravenswood Ave Chicago 13 Ill	24
Dec Electric Co	
1101 N Paulina St Chicago 22 Ill	28
Dietzen Co Eugene	
2425 N Sheffield Ave Chicago Ill	17-24
Dittmore-Freimuth Corp	
2517 E Newnath St Milwaukee 7 Wis	28-33
Dreier Bros Inc	
7301 Woodlawn Ave Chicago 37 Ill	2-23
Dremel Mfg Co	
2020 18th St Racine Wis	6-23
Duro Specialty Co	
811 Boston St Lynn Mass	36-37
Ed-Bowl Products Inc	
87 Merrick Rd Baldwin NY	1-26
Edmund Scientific Co	
101 E Gloucester Pike Barrington NJ	15-18
Eisler Eng'g Co	
750 S 11 St Newark 3 NJ	28-29
Electrical Specialty Co	
138 18 St San Francisco 3 Calif	28
Electric Soldering Iron Co	
W Elm St Deep River Conn	28-29-31-32
Electric Terminals Corp	
2019 Center St Cleveland 13 Ohio	35
Elgin National Watch Co	
107 National St Elgin Ill	8
Engineering Developments Inc	
Forest Ave Middletown RI	15-18
Engis Equipment Co	
431 S Dearborn St Chicago 5 Ill	1-15-18-24
Euthoven Solders Ltd	
113 N Water St Rochester 4 NY	32
Erea Tool Die & Stamping Co	
19 Ash St Brooklyn 22 NY	19
Essence Corp	
561 Fifth Ave New York 17 NY	16-17-36-37
Erikson Specialized Tool Co	
P O Box 424	
Pico Calif	1-5-19-21-24-30-31-32-41
Eyret Tool Co	
236 A Broadway Cambridge Mass	19-20-35
Z-3-Way Templates	
P O Box 535 Reseda Calif	24
Felker Mfg Co	
Torrance Calif	2-6-7-8
Forsberg Mfg Co	
125 Seaview Ave	
Bridgport 1 Conn	2-6-7-23-26
France Mfg Co	
10325 Heron Rd Cleveland 2 Ohio	40
Gardner-Denver Co	
Front St Quincy Ill	7-21-22-26-41
Gaertner Scientific Corp	
1250 Wrightwood Ave Chicago 14 Ill	24
Gee-Lar Mfg Co	
418 S Wymon St Rockford Ill	14-31-36-37
General Cement Mfg Co Div Textron Inc	
400 Wyman St	
Rockford Ill	14-15-20-26-35-36-37-38-40

General Components Inc	
225 E 144 St Bronx 51 NY	38
General Electric Co	
Apparatus Sls Div	
1 River Rd Schenectady 5 NY	28-32
General Machine & Instrument Co	
Clinton Rd Caldwell NJ	1-20
General Scientific Equipment Co	
7516 Limekiln Pike Phila 50 Pa	16-28-39
Goodrich Aviation Products	
Div H F Goodrich Co	
500 S Main St Akron 18 Ohio	22
Gordon Enterprises	
5362 N Cahungra Blvd N Hollywood Calif	15
Greenlee Tool Co	
2136 12 St Rockford Ill	3-20-26
Hal-Hen Co	
3611 11 St Long Island City 6 NY	0
Hescon Electric Co	
121 W Clay Ave Roselle Park NJ	29-30-31-32
Hi-Shear Rivet Tool Co	
2680 D 247th St Torrance Calif	25-26
High Speed Hammer Co	
313 Norton St Rochester 21 NY	12-10
Holub Industries Inc	
411 E 9th Ave Sycamore Ill	40
Horn Mfg Co	
3480 Bellevue Ave Detroit 7 Mich	22
Hunter Tools	
9851 Alhurbis Ave	1-12-19-20-26
Santa Fe Springs Calif	27-28-29-40
Ideal Arrowsmith Inc	
2813 Evans Ave Cheyenne Wyo	41
Ideco Industries Inc	
3127 Park Ave Sycamore Ill	19-19-32-40
Ingersoll-Rand Co	
11 Broadway New York 4 NY	26
Insuline Corp of America	
186 Granite St Manchester NH	37
Jones Electronics Hiram	
2313 W Olive St Burbank Calif	35
Kendall Co	
237 S A W Salt Lake City 1 Utah	25
Kelnor Mfg Corp	
1355 Market St San Francisco 3 Calif	31-32
Kelsey-Hayes Co	
3800 Military Ave	
Detroit 30 Mich	19-26-27-35-41
Kempco Mfg Co	
181 W 18 St New York 11 NY	28-29
Keystone Electronics Corp	
49 Hleecker St New York 12 NY	1-65
King Electric Equipment Co	
3123 Inman Ave Cleveland 5 Ohio	40
Klein & Sons Mathias	
2900 McCormick Rd Chicago 15 Ill	5-19-25-41
Kraeuter & Co	
585 18 Ave Newark 3 NJ	19-20-22-27-41
Krenzel Mfg Co	
227 Fulton St New York 7 NY	16
Kwikheat Mfg Co	
3732 San Fernando Rd Glendale 4 Calif	31-32
Lenk Mfg Co	
30 Cummington St Boston 15 Mass	28-31-32
Liton Industries Components Div	
5873 Rodeo Rd	
Los Angeles 16 Calif	35
Lufkin Rule Co	
1730 Hess St Saginaw Mich	17-20-24-26-39
Melroe Edison Co Power Tool Div	
110 Main St Burlington Vt	6-23
Magnetec Corp	
11785 W Olympic Blvd	
W Los Angeles 64 Calif	20-22-35
Magnetic Devision Corp	
103 S Van Brunt St Englewood NJ	31
Martindale Electric Co	
Box 617 Edgewater Branch	
Cleveland 7 Ohio	10-11
Matthews & Co Inc	
3942 Forbes St Pittsburgh 13 Pa	40
Mico Instrument Co	
80 Trowbridge St Cambridge 38 Mass	3
Millers Falls Co	
57 Wells St	2-3-6-7-8-12-17-
Greenfield Mass	19-20-21-23-26-30-41
Mitchell Industries Inc	
Municipal A P P O Box 17	
Mineral Wells Texas	30-31-32
Mundy Machine Products Co	
40 Dudley St Providence 5 RI	7-26-11
Moran Instrument Corp	
170 E Orange Grove Ave	
Pasadena 3 Calif	20
Morris Co J I	
896 Elm St Southbridge Mass	8-19
Multicore Solders Ltd	
Mayland Ave Hemel Hempstead	
Hertfordshire England	33-40
Numeral Stamp & Tool Co	
Huguenot Park Staten Island 12 NY	16
Ohms Seal Corp	
1050 Commerce Ave Union NJ	24
Olympic Instrument Labs	
Vashon Wash	24
Optics Eng'g Co	
3524 W Washington Blvd	
Los Angeles 14 Calif	10
Orbit Industries	
Box 656 Reseda Calif	38
Oryx Co	
8015 Wilshire Blvd	
Beverly Hills Calif	31-32
Oster Mfg Co John Cummins Portable Tool	
Div 5055 N Lydell Ave	
Milwaukee 17 Wis	6-23
Pacific Universal Products Corp	
168 Vista Ave Pasadena 8 Calif	18

Peck Stow & Wilcox Co
217-274 Center St Southington Conn 12

Portable Electric Tools Inc
420 W 83 St Chicago 20 Ill 6-23

Porter-Cable Machine Co
700 Marcellus St Syracuse 4 NY 6-23

Porter Inc H K
74 Foley St Somerville 48 Mass 5

Precision Measurements Corp
161 D Millbrook Rd Flemington NJ 35

Precision Metal Products Co
41 Elm St Stoneham Mass 35

Precision Supply Co
292 Belmont Ave Paterson 2 NJ 4

Radial Cutter Mfg Corp
851 Bond St Elizabeth 4 NJ 3

Radio Essentials Inc
152 Macquesten Pkwy Mt Vernon NY 1

Reid Mfg Co A
80 Shore Rd Port Washington NY 25

Richmond Inc
922 S Myrtle Ave Monrovia Calif 26-41

Safelite Glass Co
417 Stenton Ave Philadelphia 44 Pa 18

Santon Products Inc
1661 Boone Ave
New York 60 NY 1-3-11-19-20

Schmidt Inc Geo T
4109 N Ravenswood Ave Chicago 13 Ill 16

Selas Corp of America
Dresher Penna 32

Shakerford Div Illinois Tool Works
51 Charles Rd Elgin Ill 26

Simonds Saw & Steel Co
470 Main St Fitchburg Mass 2-11-23

Skil Corp
5025 Elston Ave Chicago 30 Ill 6-23-26

Smith Inc Herman R
1326 Nostrand Ave
Brooklyn 10 NY 1-36-37-46-41

Snap-On Tools Corp
Kenosha Wisc 2-3-5-6-11-12-18-19-26-21-
23-26-27-29-31-32-39-41

Star Expansion Products
718 A Second Ave New York NY 26

Sta-Warm Electric Co
553 N Chestnut St Ravenna Ohio 25

Sturtevant Co P A
Addison Ill 11

Technical Devices Co
2349 Centinela Ave Los Angeles 54 Calif 13

Techneraft Co
116 Commonwealth Ave
Boston 31 Mass 3-23-32

Telegraph Construction & Maintenance Co Ltd
Merrym House Theobalds Rd 3-12-19-20-23-
London W C 1 England 25-26-27-38-41

Temperature Eng'g Corp
1 E Hwy 130 Riverton NJ 28

Terrill Ely Consolidated Siphon Supply Co
22 Waverly St New York 13 NY 15

Tinsley Labs Inc
2526 Grove St Berkeley 4 Calif 15

Tisco Mfg Co
14760 Calvert Van Nuys Calif 26-41

Torrington Co
59 Field St Torrington Conn 20-26

Trotter Mfg Co
4099 Towne St E Haddam Conn 29-40

Turner Brass Works
821 Park Ave Sycamore 26-32

TV Hardware Mfg Co Div Textron Inc
400 S Wyman St Rockford Ill 18

United Shoe Machinery Corp
146 Federal St Boston 7 Mass 22-26

United Industrial Machines Corp
7969 Lorain Ave Cleveland 2 Ohio 24

Utica Drop Forge & Tool Div Kelsey-Hayes Co
2415 Whitesboro St
Utica 4 NY 5-19-26-27-41

Varo Products Co
313 E Ontario St
Chicago 11 Ill 5-12-19-26-35

Vulcan Electric Co
88 Holten St Danvers Mass 25-30-31-32

Wall Mfg Co P
Erle St Grove City Pa 29-30-31-32

Walco Electronics Mfg Co
100 W Green St
Rockford Ill 1-5-18-20-26-29-32-36-37-38

Waltham Screw Co
77 Rumford Ave Waltham 54 Mass 1-20-36

Wasco Electric Products Corp
204 S Larkin Ave Juliet Ill 29-31-32

Weller Electric Corp
601 Stone's Crossing Rd
Easton Pa 29-31-32

Wen Products Inc
5806 Northwest Highway
Chicago 31 Ill 6-23-29

White Dental Mfg Co SS Industrial Div
10 E 40 St New York 16 NY 18

Whitney Metal Tool Co
110 Forbes St Rockford Ill 21-22

Wilder Mfg Co
Mechanic St & Erie R R Port Jervis NY 30

Wyzenbeck & Staff Inc
228 N California Ave Chicago 12 Ill 3-23

Xcellite Inc
Thorn-Hank Sts Orchard Park NY 19-26-41

94—TRANSFORMERS

Transformers, antenna matching 1
Transformers, audio 2
Transformers, audio, very low frequency 3

Transformers, autotransformer 4
Transformers, bias 5
Transformers, current 6
Transformers, filament 7
Transformers, flyback 8
Transformers, 400 cycle 9
Transformers, HV 10
Transformers, instrument 11
Transformers, insulation 12
Transformers, isolation 13
Transformers, microwave 14
Transformers, modulation 15
Transformers, plate 16
Transformers, plug-in 17
Transformers, power receiving 18
Transformers, power transmitting 19
Transformers, precision matched 20
Transformers, precision TV deflection 21
Transformers, precision voltage dividing 22
Transformers, pulse 23
Transformers, RF-IF 24
Transformers, toroidal 25
Transformers, transistor 26
Transformers, ultrasonic 27
Transformers, vibrator 28
Transformers, voltage, regulating 29
Transformer laminations 30
Transformer, velocity 32
Transformer windings 31

Alanco Precision Mfg Corp
540 Cananova St New York 40 NY 38

Accurate Eng'g Co
2903 Blow Island Ave
Chicago 5 Ill 4-6-7-12-13-16

Ace Coil & Electronics Co
914 Lincoln Hwy Metuchen NJ 24

Acme Electric Corp
Water St
Cuba NY 4-7-9-10-11-12-13-15-17-18-
19-20-21-22-23-25-27-29

Aeromax Inc
22519 Telegraph Rd
Detroit 41 Mich 6-11-22-25

Aero Products Co
308 Shurs Lane Philadelphia 28 Pa 2-3-24

A G Transformer Corp
89 Madison St
Newark 5 NJ 13-15-29-39-51

Administrance Nanco Corp
Marine St Farmingdale L I NY 14

Advance Industries Inc
640 Memorial Dr
Cambridge 38 Mass 2-4-7-9-23-25

Aerofite Electronics Corp
2205 Summit Ave Union City NJ 24

Aerovox Corp
740 Belleville Ave New Bedford Mass 2-25-25

Aerovox Corp Pacific Coast Div
2724 S Peck Rd
Monrovia Calif 1-2-5-6-7-9-12-
13-16-19-24-25

Airtron Inc
139 E I St Roselle NJ 14

Airlesign Corp
241 Fairfield Ave
Upper Darby Pa 12-15-16-17-18-19-
20-23-26-27-28-31-32

Airmac Ltd
High Wycombe
Buckinghamshire England 29

Alexius Products Co
Middle River
Baltimore 20 Md 2-3-4-5-6-7-8-10-15-
16-17-18-19-21-26-28

Airpax Products Co Seminole Div
City of Plantation
 Ft Lauderdale Fla 7-9-10-11-13-15-16-
17-19-23-26-29

Airtron Inc
1108 W Elizabeth Ave
Linden NJ 1-6-7-14-15-23-24-31

Aladdin Electronics Div Aladdin Industries
703 Murrenshoro Rd
Nashville 10 Tenn 23-24

Aletronic
Div Consolidated Electrodynamics Corp
325 N Altadena Dr
Pasadena Calif 2-3-9-11-17-23-25-26-27

Alford Mfg Co
299 Atlantic Ave Boston 10 Mass 14-24

Alleghehy Ludlum Steel Corp
Oliver Bldg Pittsburgh 22 Pa 30

Alter Lansing Corp
1515 S Manchester Ave
Anheim Calif 13-15-16-17-23-25-27-29

Alto Scientific Co
865 Commercial St Palo Alto Calif 23

American Coil Inc
21-28 45 Rd Long Island City 1 NY 24

American Machine & Foundry Co
Gen Eng'g Labs
11 Bruce Pl Greenwich Conn 10-14-23-25

American Rectifier Corp
95 Lafayette St
New York 13 NY 4-6-9-12-13-18-29-30-31

American Research & Mfg Corp
820 Hahine Ave Rockville Md 25

American Speedright Corp
63-01 Metropolitan Ave
Middle Village 79 NY 4-7-16-28

American Transformer Co
Div Standard Electronics
352 Emmett St
Newark 5 NJ 21-22-23-24-25-26-27-28-29

Amip Inc Captron Div
155 Park Ave
Elizabethtown Pa 6-7-9-10-16-23

Amplifier Corp of America
308 Broadway New York 13 NY 2-4-7-16-29

Amptel Inc
342 W 49 St New York 18 NY 1

Annis Co R B
1191 N Delaware St
Indianapolis 2 Ind 6-11

Antennavision Inc
2948 W Osborn Phoenix Ariz 1-25

Apex Coil & Transformer Corp
1919 N Fairfield Ave
Chicago 8 Ill 2-3-4-5-7-10-13-
20-22-26-28-31

Applied Radiation Corp
2404 N Main St Walnut Creek Calif 23

A P W Co
72 W Main St Rockaway NJ 26

Arco Transformer Electric Corp
1802 S Hanna St
Pl Wayne 5 Ind 13-16-17-18-19-26-28-31-32

Ardente Acoustic Labs Ltd
Minerva Rd London NW 10 Eurland 2-4-26

Argonne Electronics Mfg Corp
165-11 South Rd Jamaica 33 NY 2-24-26

Arysto Labs Inc
15-25 Davis St Long Island City 1 NY 12

Aryold Magnetics Corp
4613 W Jefferson Blvd
Los Angeles 16 Calif 5-25-26

Arted Co
367 Worthington St Springfield 3 Mass 24

Associated Research Inc
277 W Belmont Ave Chicago 18 Ill 11

Atlantic Transformer Corp
80 Hynes Ave
Groton Conn 2-5-4-5-6-7-9-10-12-13-15-
16-17-23-25-26-27-28-31

Atlas Coil Corp
63 Main St
Ansonia Conn 2-4-6-7-9-10-11-15-15-16-
18-19-20-22-25-27-31-32

Atlas Eng'g Co
176 Blue Hill Ave
Roxbury 19 Mass 18-19-20-21-22-23-24-
25-26-27-29-29-30-31-32

Audio Development Co
2823 11 Ave S
Minneapolis Minn 23-25-26-27

Automation Instruments Inc
Industrial Pk
Boulder Colo 4-6-9-13-18-19-31

Auto Test Inc
600 S Michigan Ave
Chicago 5 Ill 2-4-7-11-13-16-19-28-31

Auto Test Inc
411 W 8th St Neillville Wisc 4-16

Avion Div ACE Industries Inc
11 Park Pl Paramus NJ 9-14-23-25

Avnet Electronic Supply Co
36 N Moore St New York 13 NY 2-4-7-18

Balustrain Corp
1783 N Calhoun St
St Wayne Ind 13-16-17-18-19-20-23-24-26-31

Barker & Williamson Inc
Canal & Beaver St Bristol Pa 1-23-24-25-26

Barwood Electronic Inc
921 E Broadway
Glendale 5 Calif 2-5-4-5-6-7-9-11-26

Basker Electric Co
Box 269 Rt 145
Highland Ill 14-15-16-17-18-19-20-22-23-
25-26-27-28-29-31

Bell Aircraft Corp
P O Box 1
Buffalo 5 NY 2-3-7-9-10-18-23-25

Bellair Electronics Inc
262 White St Red Bank NJ 24

Berkshire Labs
586 Hank Village Greenville NH 17-23

Berkshire Transformer Corp
Route 311
Kent Conn 2-3-4-5-6-7-9-10-11-12-13-14-15-
16-17-18-19-20-23-26-27-28-31

Better Coil & Transformer Corp
Goodland
Ind 2-3-4-6-7-9-10-11-12-13-
16-18-19-20-26-28-31

Bitterman Electric Co
Harlow St Canaan Conn 25-31

Blackburn, Electronic Corp
55 W 7 St Wyoming Pa 25

Blonder-Tongue Laboratories
9-25 Alling St Newark 2 NJ 1

Bogue Electric Mfg Co
52 Iowa Ave Paterson 3 NJ 9-26-29

Brew & Co Richard D
90 Airport Rd Concord NH 23

Brubaker Electronics Inc
3652 Eastham Dr Culver City Calif 23

Bundy Electronics Corp
17 Fabryc Pl Newark 12 NJ 25

Burnell & Co
10 Pelham Pkwy Pelham Manor NY 2-13-20

Burrighs Corp
6071 2 Ave Detroit 32 Mich 23-25

Burrighs Corp Electronic Instruments Div
1209 Vine St Philadelphia 7 Pa 23

Calif Electric Products
284 Daboll St Providence 7 Ri 6-7-10-31

Calbest Electronics Co
4801 Exposition Blvd Los Angeles 16 Calif 24

Caledonia Electronics & Transformer Corp
P O Box 298
Caledonia NY 2-4-7-9-10-13-
15-16-22-23-25

Calif Magnetics Control Corp
11822 Valerio St
N Hollywood Calif 20-21-22-23-26-26-27-28-29

Cambridge Thermionic Corp
445 Concord Ave Cambridge 38 Mass 1-24

Campbell Co Colin
Abbott St 2-3-4-5-6-7-9-10-11-12-13-15-16-
Danbury Conn 17-18-19-20-22-23-25-26-27-29
Campbell X-ray Corp
110 Cunningham St
Boston 15 Mass 4-6-7-9-10-12-13-19
Carad Corp
2850 Bay Rd 2-3-4-6-7-8-9-10-11-13-14-15-16-
Redwood City Calif 20-22-23-24-25-23
Carol Electronics Corp
315 W Stephen St 2-7-13-18-19-24-
Martinsburg W Va 26-28-29
C H C Electronics Co
2601 N Howard St Philadelphia 33 Pa 23
CELCO Constantine Eng'g Labs Co
P O Box 555 2-3-4-5-6-7-8-9-10-11-12-13-
Mahwah NJ 15-17-20-21-22-23-24-25-26-27-25
Central Coil Co
1720 N Luett St
Indianapolis 22 Ind 2-7-24-26-31
Central Scientific Co of Calif
1040 Martin Ave Santa Clara Calif 4
Central Transformer Co 2-3-4-5-6-7-9-10-13-
900 W Jackson Blvd 14-15-16-17-18-19-20-22-
Chicago 7 Ill 23-26-27-28-29
Century Coil Corp
1534 N Clybourn Ave
Chicago 10 Ill 4-9-12-13-16-19
CG Electronics Corp
1500 Central SW Albuquerque NM 25
CGS Laboratories Inc
Routes 7 & 35 Ridgefield Conn 1-25
Chicago Electronic Eng'g Co 2-3-4-5-6-7-9-
3223 W Armitage Ave 10-11-12-13-16-17-18-
Chicago 47 Ill 19-20-22-24-25-26-28
Chicago Magnetic Control
1616 N Damen Ave 3-4-5-6-7-9-11-12-13-16-
Chicago 47 Ill 17-18-19-20-22-23-25-26-28
Chicago Standard Transformer Corp
3501 W Addison St 2-4-5-7-8-9-10-13-15-
Chicago 18 Ill 16-18-19-21-23-26-28-29
Chicago Telephone of Calif
105 Pasadena Ave S
Pasadena Calif 2-18-19-31
Cinema Eng'g Div Aerovox Corp
1100 Chestnut St Burbank Calif 25
Cinema-Television Ltd
Worley Bridge Rd Lower Sydenham
London SE 26 England 21
Clippard Instrument Lab
7390 Colerain Ave Cincinnati 39 Ohio 24
Coast Coil Co
5333 W Washington Blvd
Los Angeles Calif 2-9-20-22-25
Coil Company of America
212 Washington St 1-2-3-4-5-6-7-9-10-11-12-
Northvale NJ 13-15-16-17-18-19-22-25-28-29
Colcraft Inc
Cary Ill 1-23-24-25-26
Coils Electronics Co
2839 49 N 2nd St Phila 33 Penna 24
Coil Eng'g & Mfg Co
Roanoke Ind 2-4-7-13-16-18-28-29-31
Coil Winders Inc
30 New York Ave 1-2-3-4-5-6-7-8-9-10-11-12-
New Canaan Conn 14-15-16-17-18-19-20-23-24-25-
Westbury LI NY 26-28-29-31-32
Columbus Process Co
2851 Southeastern Ave 2-4-6-7-13-15-16-
Columbus Ind 18-19-21-26-28
Communication Accessories Co
U S 50 Hwy 2-3-4-5-6-7-8-9-10-11-12-13-
Lees Summit 14-15-16-17-18-19-20-21-22-23-
Mo 24-25-26-27-28-29-30-31-32
Computer Eng'g Associates Inc
360 N Halstead St Pasadena Calif 20
Consolidated Electrodynamic Corp
300 N Sierra Madre Villa
Pasadena Calif 11-23-25-26
Consolidated Productions Inc
Broward Int'l Airport Ft Lauderdale Fla 8
Control Corp
718 Central Ave N E
Minneapolis 14 Minn 2-13-23
Coto-Coil Co
55 Pavilion Ave Providence 5 RI 31
Crest Transformer Corp
1834 W North Ave 1-2-3-4-5-7-9-13-15-16-18-
Chicago 22 Ill 19-26-28-29-31
Crittenden Transformer Works
1220 Nadeau St
Los Angeles 1 Calif 4-6-7-9-12-13-16
Cycle Transformer Corp 2-3-4-5-7-9-10-
356 Glenwood Ave 11-12-13-15-16-18-19-20-
E Orange 11 NJ 22-23-26-27-28-29-31
Dallons Labs
5066 Santa Monica Blvd
Los Angeles 29 Calif 27
Dane Electronic Labs Inc
P O Box 209 Salem Mass 1
Daven Co
Route 10 Livingston NJ 1-24
Davenport Mfg Co
1713 N Ashland Ave Chicago 22 Ill 6
Del Electronics Corp
521 Homestead Ave 4-6-7-9-10-11-
Mt Vernon NY 12-13-16-22
Demornay-Bonardi Corp
780 B Arroyo Pkwy Pasadena Calif 14
Dielectric Products Eng'g Co
Raymond Ma 1
Digital Equip Corp
Waynard Mass 23
Dietronics Corp
Albertson Ave Albertson LI NY 23
Dielectron Div Gudeman Co
2669 S Myrtle Ave Monrovia Calif 2-17-23
D & M Products
13144 W McNichols Rd Detroit 35 Mich 28

Dormeyer Industries
3418 Milwaukee Ave
Chicago 41 Ill 3-3-4-7-10-17-
18-19-28-31
D & R Ltd
402 E Gutierrez St Santa Barbara Calif 25
Du-Co Ceramics Co
Box 278 Saxonburg Pa 12
Du Mont Labs Inc Allen II
750 Bloomfield Ave Clifton NJ 8-11-21-23-25
Dunlap Electronics
254 9 St Des Moines 14 Iowa 25
Dyna Co
617 N 41st St Philadelphia 31 Pa 2-18
Eagle Electric Mfg Co
23-10 Bridge Plaza Long Island City 1 NY 6
Eastern Specialty Co
3517 N 8 St Phila 40 Pa 4
Edko Electronics Eng'g Co
202 Grand St 2-3-4-5-6-7-9-10-11-12-13-15-16-
Brooklyn 11 NY 17-18-19-20-26-27-28-31
Eisler Eng'g Co
750 S 13 St Newark 3 NJ 4-6-9-10-23-29
Eloc Inc
P O Box 354 McLean Va 5-7-9-11-12-13-26-31
Electran Mfg Co
1901 Clybourn Ave 2-4-5-6-7-9-10-11-12-13-
Chicago 14 Ill 15-16-18-19-25-26-28-31
Electrical Windings Inc
2015 N Kolmar Ave 2-3-4-6-7-9-11-12-13-
Chicago 39 Ill 15-16-26-28-31
Electro Assemblies Inc
4444 N Kedzie Ave Chicago 25 Ill 21
Electro Eng'g Works
401 Preda St 2-4-6-7-9-10-11-12-
San Leandro Calif 13-15-16-18-19-22-29-31
Electronic Coil Co
2506 N Ontario St Burbank Calif 10-21
Electronic Components
2655 W 19 St 1-2-3-4-6-7-9-13-15-16-
Chicago 8 Ill 17-18-19-26-28-29-31
Electronic Research Associates
67 Factory Pl 2-3-4-5-6-7-9-12-16-
Cedar Grove NJ 18-19-25-26-29
Electronic Transformer Co 1-2-3-4-5-6-
7-9-10-11-12-13-15-16-18-
Brooklyn 1 NY 19-20-22-23-25-26-27-31
Electrosolids Corp
7436 Varva Ave
N Hollywood Calif 2-4-6-9-11-26
Electro-Sonic Labs
35-54 36 St Long Island City 6 NY 2-26
Electro-Technical Products
Div Sun Chemical Corp
113 E Centre St Nutley NJ 12-30
El-Rad Mfg Co
2800 W Cullum Ave
Chicago 18 Ill 1-8-23-24-26-27
Empire Product Sales Corp
37 Prospect St Amsterdam NY 14
Ensign Coil Co
2520 S Pulaski 1-2-5-7-10-13-15-16-
Chicago 23 Ill 18-24-25-26-28-31
Epro Products Inc
2500 Atlantic Ave 2-3-4-5-7-9-10-12-13-15-16-
Brooklyn 7 NY 17-18-19-23-25-26-27-28-31
Epsco Inc
588 Commonwealth Ave
Boston 15 Mass 17-23-25-26
Eric Resistor Corp
644 W 12 St Erie 6 Pa 23-25
ESC Corp
534 Bergen Blvd
Palisades Park NJ 23-24-25-31
Espey Mfg Co 4-6-7-8-9-10-11-12-13-14-15-
Congress & Ballston Ave 16-17-18-19-20-21-
Saratoga Springs NY 22-23-24-25-26-27-28
Essex Electronics
550 Springfield Ave
Berkeley Heights NJ 10-23-24
Essex Electronics Div NYT Electronics Inc
7803 Atoll Ave N Hollywood Calif 23-24-25
Essex Wire Corp Magnetic Winding Inc
Easton Pa 2-3-4-5-6-7-9-10-11-12-13-14-15-
16-17-18-19-20-26-27-28-29-31
Federal Telecommunication Labs Div IT&T
937 Commercial St
Palo Alto Calif 13-24-25-26
Ferranti Electric Inc
80 Rockefeller Plaza 2-3-4-5-7-9-10-12-13-15-
New York 20 NY 16-17-18-19-26-27-28-31
Ferrotan Electronics Co
693 Broadway New York 12 NY 2-24-26-31
Filtron Co
131-15 Fowler Ave Flushing 55 NY 23
Fisher Eng'g Inc
P O Box 327 2-3-4-7-9-10-13-15-
Huntington Ind 16-17-22-23
Forbes & Wagner Inc
343 Central Ave
Silver Creek NY 1-8-10-21-23-24-25-26
Forest Electric Co
7216 Circle Ave
Forest Park Ill 2-3-4-5-6-7-9-10-11-
12-18-16-28-81
Foster Transformer Co
3820 Colerain Ave 2-3-4-5-6-7-9-13-15-16-17-
Cincinnati 23 Ohio 18-19-23-26-27-28-31
France Mfg Co
10325 Berea Rd Cleveland 2 Ohio 9
Fred T Transformer Co 2-3-4-5-7-9-10-11-
1718-35 Weirfield St 12-13-14-15-16-17-18-19-
Brooklyn 27 NY 20-22-23-25-26-27-28-29
F-R Machine Works Inc
Electronic X-Ray Div
26-12 Borough Pl Woodside 77 NY 14
Fuel-Miller Labs Inc
301 Central Ave Clark NJ 1-8-10-24-25
Gates Electronics Co
2090 Barnes Ave Bronx 62 NY 4-31
Gates Radio Co
123 Hampshire St Quincy Ill 13

General Bronze Corp
711 Stewart Ave Garden City NY 14
General Coil Products Corp
147-12 Liberty Ave
Jamaica 35 NY 1-24-25-26
General Controls Co
#01 Allen Ave Glendale 1 Calif 6
General Electric Co Apparatus Sls Div
1 River Rd 2-6-9-10-11-13-14-16-18-19-
Schenectady 5 NY 20-22-23-28-28
General Electric Co Industry Control Dept
P O Box 2488 Roanoke Va 4
General Instrument Corp
65 Gouverneur St Newark NJ 8-24-25-26
General Instrument Corp F W Sickles Div
185 Front St Chicopee Mass 8-21-23-24-25
General Radio Co
275 Massachusetts Ave
Cambridge 39 Mass 2-4-8-25
General Railway Signal Co
P O Box 600 Rochester NY 6
General Transformer Co
18240 Harwood Ave 2-3-4-5-7-9-10-13-15-
Homewood Ill 16-17-18-19-25-28-31
Genisio Inc
2333 Federal Ave Los Angeles 64 Calif 28
Geotronic Labs Inc
1314 Cedar Hill Ave 2-3-4-5-6-7-9-10-11-13-
Dallas 8 Texas 15-16-17-20-25-26-31
Gertsch Products Inc
3211 La Clema Blvd
Los Angeles 25 Calif 20-22
Goslin Electric & Mfg Co 2-3-4-5-6-7-9-
2921 W Olive Ave 10-13-15-16-17-18-19-22-
Burbank Calif 23-24-25-27-28-29-31
Grammer-Hallidays Transformer Corp
2734 N Pulaski Rd 2-3-4-5-6-7-8-10-13-
Chicago 39 Ill 15-16-23-25-26-28-31
Grand Coil Winders
14306 Lakeshore Ave
Grand Haven Mich 2-4-7-10-11-31
Grand Ra-Tronics Inc
17360 Haven Rd 2-4-6-7-14-11-
Grand Haven Mich 13-18-19-27
Grand Transformers Inc
Bechtree & Marion Sts 2-3-4-5-6-7-9-10-13-
Grand Haven Mich 15-16-18-19-22-28-31
Gray & Kuhn
20 Railroad Ave Roslyn Heights NY 24
Green Rectifier Co
1-10 40 St 4-7-9-12-13
Fairlawn NJ 16-19-26-29-31
Gudeman Co
340 Huron St Chicago 10 Ill 23
Gulton Industries Inc 1-2-3-4-5-6-7-9-
212 Durham Ave 16-11-12-13-14-16-16-17-
Metuchen NJ 18-19-20-22-23-25-26-27-28
Hall Mfg Co
3301 Wesley Terrace Schiller Park Ill 25
Harder Co Donald C
3710 Midway Dr San Diego 10 Calif 2-9-23
Hays Mfg Co
803 W 12th St Erie Pa 30
Hermitec Seal Transformer Co
555 N 5 St 2-3-4-5-6-7-9-10-11-13-14-15-
Garland Texas 16-17-20-23-24-25-26
Hevi-Duty Electric Co
2040 W Wicomico Ave 4-6-7-9-10-11-12-
Milwaukee 1 Wisc 13-16-23-29
Highland Eng Co
90 Magnolia St 2-3-4-5-7-9-10-12-13-15-
Westbury NY 16-20-26-28-31
Hindle Transformer Co
Woods Church Rd 4-6-7-9-10-11-12-13-
Rd 2 Flemington NJ 16-18-19-31
Holiday Transformer Co
2954 N Sheffield Ave 2-4-5-7-9-10-13-15-
Chicago 14 Ill 16-18-21-26-24
Houlihan Co T J
2508 W Lawrence Ave Chicago 25 Ill 24
Ideal Electric & Mfg Co
300 E 1 St Mansfield Ohio 14
Inductor Eng'g Inc
117 Schley Ave 2-3-4-7-9-10-13-
Lewes Dela 15-16-25-31
Industrial Transformer Corp 2-3-4-5-6-7-
Gouldsboro Pa 8-9-10-11-12-13-14-15-16-17-
18-19-20-22-23-24-25-26-27-28-29-31-32
Insulation Mfgs Corp
565 W Washington Blvd Chicago 39 Ill 12
Interelectronics
2432 Grand Concourse
New York 58 NY 5-9-16-18-19-26-29
International Resistance Co
401 N Broad St Philadelphia 8 Pa 23-25
I-lip Transformer & Metal Co
Beech St 1-2-3-4-5-7-9-13-
Islip NY 15-16-18-19-24-24
Jacobs Instrument Co
4718 Bethesda Ave Bethesda 14 Md 23
James Vibrapower Co Acam Div
109 W R St 2-3-4-7-10-11-13-16-
Gibson City Ill 18-20-26-28-31
Johnson Co F F
206 2 Ave S W Wausau Minn
Johnson Electronics Inc
P O Box 1675 Hwy 17-92
Casselberry Fla 1-23-24-25
Kelsey-Hayes Co
3600 Military Ave Detroit 32 Mich 30
Kenyon Transformer Co
840 Barry St 2-3-4-5-6-7-9-10-11-12-13-15-
New York 69 NY 16-17-18-19-20-23-26-27-28
Keystone Products Co
904 E 28rd St 2-4-6-7-8-9-10-11-12-13-
Union City NJ 14-16-19-20-23-25-26-29
Knopp Inc
1307 66th St Oakland 8 Calif 6-7-9-11-16
Koltun Electric Mfg Co
123 NJ Railroad Ave Newark 5 NJ 12-13

Kobay Tool Co
1535 N Dayton St Chicago 22 Ill 30

K-V Transformer Corp
20 E Franklin St 2-3-4-5-6-7-9-10-11-13-15-16-
Danbury Conn 17-18-19-20-23-26-27-28-31

Laboratory for Electronics Inc
75 Pitts St 2-4-6-7-9-10-13-
Boston 14 Mass 16-23-24-25-26-27

Lanevin Mfg Corp
47-37 Austell Pl 2-3-4-5-6-7-9-10-11-
Long Island City 1 NY 12-13-15-16-17-18-19-
20-22-23-25-26-28-29

Lavoie Labs Inc
Matawan-Freehold Rd
Morrisville NJ 7-9-10-18-19-23

Lee Electric & Mfg Co
2506 Clearwater St
Los Angeles Calif 4-12-28-29-31

Leonard Electric Products Co
67 34 St Brooklyn 32 NY 1-2-X-23-24-25

Levinthal Electronic Products Inc
3180 Hammer St Palo Alto Calif 23

Light Electric Co
211 Lakawanna Ave
Newark 3 NJ 4-6-7-9-10-12-13-16

Lindhorst Eng'g Co
2450 W Hubbard St Chicago 12 Ill 4-7-16-31

Line Material Industries
700 W Michigan Milwaukee Wisc 29

Lindor Inc
1101 San Fernando Rd 2-3-4-6-7-9-10-11-12-
Glendale 4 Calif 13-15-16-17-26-28-29

Litton Industrial of Calif
338 N Foothill Rd 10-11-12-13-14-15-16-17-
Beverly Hills Calif 18-19-23-25-26-27-28-29

Luther Electronic Mfg Co
5728 W Washington Blvd
Los Angeles 16 Calif 23

McGregor Electronic Industries Inc
132 First St McGregor Iowa 2

Macfar Inc
2543 Boston Rd New York 67 NY 4

Magnatran Inc
P O Box 211 Kearny NJ 4-7-10-15-16

Magnavox Corp
2131 Bueter Rd
Ft Wayne 4 Ind 2-7-9-16-25

Magnavox Co
2131 Bueter Rd Ft Wayne Ind 1-2-7-23-24

Magnetic Amplifiers Inc
632 Tinton Ave New York 55 NY 13-25

Magnetic Circuit Elements Inc
3722 Park Pl
Monterey Calif 2-9-20-22-25-26

Magnetic Metals Co
Hayes Ave & 21 St Camden 1 NJ 30

Magnetic Inc
Box 391 Butler Pa 30

Melco Products Inc
501 S Ave S 2-3-4-5-6-7-8-9-10-11-
Minneapolis 15 Minn 12-16-17-18-19-20-21-22-
23-24-25-28-29-30-31

Meridian Metalcraft Inc
8739 S Millergrove Dr Whittier Calif 14

Merit Coil & Transformer Corp
2027 Sherman St 1-2-3-4-7-8-10-13-16-
Hollywood Fla 18-19-21-23-24-26-28

Mico Instrument Co
80 Troubridge St Cambridge 38 Mass 25

Microbal
Okner Pkwy Livingston NJ 14

Microphase Corp
Box 1166 Greenwich Conn 1-13-14-24

Microtran Co
145 E Minnola Ave 2-3-4-5-7-9-10-11-13-14-15-
Valley Stream NY 16-17-18-19-20-22-26-28-31

Midwest Electric Products Inc
1515 N Front St Mankato Minn 6-11

Millen Mfg Co James
150 Exchange St Malden 48 Mass 24

Miller Co J W
5917 S Main St
Los Angeles 4 Calif 1-24-26-31

Miller Co Sanford
691 Bedford Ave Brooklyn 6 NY 6

Milwaukee Transformer Co
5231 N Hopkins St 1-2-3-4-5-6-7-9-10-11-
Milwaukee 12 Wis 13-16-17-18-23-25-26

Minivan Corp
E Oliver St 2-4-5-6-7-9-10-11-13-15-16-17-
Newark 2 NJ 18-19-20-22-23-26-27-28-29-31

Molded Fiber Glass Co
4601 Benefit Ave Ashtabula Ohio 12

Moloney Electric Co
5390 Birchler Blvd
St Louis 20 Mo 4-7-9-10-15-16-23

Monarch Co J
500 Alcott St 4-6-7-9-11-12-16-17-
Denver 4 Colo 18-19-23-24-26-28-31

Muter Co
1255 S Michigan Ave Chicago Ill 24

Murey Corp
2014 N Major Ave
Chicago 39 Ill 1-2-3-4-5-14-15-16-23-24

Morrow Radio Mfg Co
2794 Market St
Salem Oregon 1-2-15-16-18-19

Musely Co F L
409 N Fair Oaks Ave Pasadena Calif 1

Murhead Instruments Inc
577 S Ave New York 22 NY 2-11-27

Multi-Amp Corp
465 Lehigh Ave Union NJ 6-9

Munston Mfg & Service Inc
Reech St 1-2-3-4-5-7-9-13-15-
Islip NY 16-17-18-19-24-28-31

Mystic Transformers Inc
63 Swanton St 2-3-4-5-7-9-10-12-13-
Winchester Mass 15-16-18-19-23-26-27-31

National Aircraft Corp Electronics Div
3411 Tulare Ave 2-3-4-6-7-9-10-11-13-16-
Burbank Calif 18-19-23-24-25-26-28-29

National Coil Co
P O Box 1237
Sheridan Wyo 2-3-9-11-20-24-26-31

National Company Inc
61 Sherman St Malden 48 Mass 24

Natural Lighting Corp
612 W Elk Ave Glendale 4 Calif 4

Networks Electronics Corp
14806 Oxnard St Van Nuys Calif 25

New England Transformer Co
47 M Grant Hwy 12-13-14-15-16-17-18-19-
Somerville 43 Mass 20-23-25-26-27-28-29-31

Newton Co
55 Elm St Manchester Conn 23

New York Coil Co
40 2 Ave
Phoenixville Pa 2-5-6-7-9-18-19-24-29-31

New York Transformer Co
1 Ave 2-3-4-5-6-7-9-10-11-12-13-15-16-
Alpha NJ 17-18-19-22-23-25-26-27-28-31

Noel Mfg Co
3 W 18 St New York 11 NY 7

Nothelfer Winding Labs Inc
5 Albemarle Ave 3-4-5-6-7-9-10-11-13-
Trenton 6 NJ 14-15-16-23-24-25-28-29

N R K Mfg & Eng'g Co
4601 W Addison St Chicago 41 Ill 14

Nyt Electronics Inc
2979 N Ontario St 10-11-13-14-15-16-17-18-19-
Hurbank Calif 20-22-23-21-25-26-27-28-31

Ogden Coil & Transformer Co
3828 W Cermak Rd 2-4-5-6-7-9-11-13-16-18-
Chicago 23 Ill 22-23-26-28-29-30-31

Ohmite Mfg Co
3601 Howard St Skokie Ill 4

Ortho Filter Corp
196 Albion Ave 2-3-4-5-6-7-9-11-13-
Paterson 2 NJ 16-17-20-23-25-26

Orys Co
9015 Wilshire Blvd Beverly Hills Calif 7

Osborne Electronic Corp
712 S E Hawthorne Blvd 12-13-14-15-16-18-
Portland 14 Ore 19-20-22-23-24-25-26-27-29-31

Osborne Transformer Corp
948 E Lafayette Ave 4-6-7-9-10-12-
Detroit 7 Mich 13-16-19-25-27

Oxford Elec Corp
3811 S Michigan Ave
Chicago 15 Ill 2-3-4-7-8-13-26

Packard Bell Electronics Corp
12333 W Olympic Blvd
Los Angeles 64 Calif 23

Palo Alto Eng'g Co
620 Page Mill Rd 2-3-4-5-7-9-10-11-12-13-
Palo Alto Calif 14-17-18-19-23-26-28-31

Partridge Transformers Ltd
Roehrk Rd 2-3-4-5-7-9-10-11-12-13-15-16-
Tolworth Surrey Enkland 18-19-20-23-25

PCA Electronics Inc
16799 Schoenborn St Spulveda Calif 23-25

Pearson Electronics
707 Urban La Palo Alto Calif 10-23

Peerless Electrical Products
1515 S Manchester Ave 2-3-4-5-6-7-9-10-
Anaheim Calif 13-15-16-17-20-22

Penn-East Eng'g Corp
Box 240 2-3-4-5-7-9-13-15-
Kutztown Penna 16-17-18-20-26-31

Penn Transformer Corp
E Bishop St Ext Bellefont Pa 8-21

Perkin-Elmer Corp Vernistat Div
Emerald St Norwalk Conn 4-22-25

Perkin Eng'g Corp
345 Kansas St
El Segundo Calif 6-9-10-11-13-22-25-29-31

Permotflux
2300 W Armitage Ave
Chicago 47 Ill 2-3-4-6-7-9-10-15-16-18-25-26

Permotflux Products Co
4101 San Fernando Rd 2-3-4-6-7-9-10-11-12-
Glendale 4 Calif 13-15-16-17-26-28-29

Peschel Electronics Inc
13 Garden St New Rochelle NY 10

Pittsburgh Coil Co
37 McMichael Rd Carnegie Penna 4-7-10-16-18

Polyphase Instrument Co
E 4 St 2-3-5-6-7-8-9-10-11-13-15-16-
Hridgeport Pa 17-20-22-23-24-25-26-31

Power Transformer Co
91 Edison Pl 2-3-4-5-6-7-8-9-10-
Newark 5 NJ 12-13-16-18-22-28-29

Precise Measurements Corp
RD 1 Millbrook Rd
Flemington NJ 7-10-12-16-19-28

Pulse Eng'g Inc
2657 Spring St Redwood City Calif 6-9-23-25

Q I C Corp
409 Main St Greenport NY 24

Quam Nichols Co
234 E Marquette Rd Chicago 37 Ill 2

Qutronic Transformer Corp
525 Broadway 2-3-4-5-7-9-10-11-12-13-15-16-
New York 12 NY 17-18-19-20-22-23-25-26-28-29

Radio Eng'g Labs
29-01 Borden Ave
Long Island City 1 NY 10-16-19

Radio Industries Inc
6225 N Ravenswood Ave
Chicago 25 Ill 17-24-26-31

Radio TV Products Corp
308 N Lake St Grass Lake Mich 24

Railway Communications Inc
9351 E 59 St Raytown 33 Mo 25

Ram Electronics Inc
600 Industrial Ave
Paramus NJ 1-2-4-7-8-10-11-13-21-23-24-31

Randall Inc Douglas
6 Pawcatuck Ave Westerly RI 2-25

Rayco Electronic Mfg Inc
11116 Cumpston St 2-3-4-5-6-7-9-10-11-13-15-
N Hollywood Calif 16-17-18-19-20-22-23-25-26-
28-29-31

Ryparr Inc
7800 W Addison St 2-4-7-8-16-18-24-31
Chicago 34 Ill 2-4-7-8-16-18-24-31

Raytheon Mfg Co Commercial Equip Div
100 River St 2-6-7-9-10-13-14-16-17-
Waltham 61 Mass 23-24-25-26-27-29

Raytheon Mfg Co
100 River St 2-7-9-10-14-16-
Waltham 54 Mass 23-25-26-27-29

Redman Electronics Corp
92 Prospect St Thompsonville Conn 24-25

Rich Electronics Inc
212 NW 8 Ave Miami 36 Fla 1

Rola Co Inc
2414 Reddie Dr Silver Spring Md 23-25

R K Mfg Co
P O Box 112
Marion Ill 2-4-5-6-7-13-14-15-16-17-19-23-26-28

Rogers Electronic Corp
49 Bleeker St New York 12 NY 2-4-8-21

Rula Co Inc
2530 Superior Ave Cleveland 14 Ohio 8

RS Electronics Corp
P O Box 368 Sta A Palo Alto Calif 9-23-24-25

Saftee Glass Co
4717 Stenton Ave Philadelphia 44 Pa 30

Sage Labs Inc
159 Linden St Wellesley 81 Mass 14

Sag Harbor Industries
Box N Sag Harbor NY 31

Sangamo Electric Co
11th & Converse St 2-6-7-10-11-12-13-18-
Springfield Ill 19-20-22-23-25-26-27

Saratoga Industries
Congress & Hallston Aves 15-16-17-18-19-20-
Saratoga Springs NY 22-23-24-25-26-27-28-29-
31

Schindlers
2429 Heverly Ave Santa Monica Calif 2

Sealy Bros
4915 W 67 St
Chicago 38 Ill 4-7-17-18-19-23-29-30

Servomechanisms Inc
12500 Aviation Blvd 2-3-4-6-7-9-11-12-13-20-
Hawthorne Calif 22-25-26-27

Shure Bros
222 Hartrey Ave Evanston Ill 2

Sigmadyne of Conn
P O Box 869 2-3-4-9-21-25-29

Port Chester NY 2-3-4-9-21-25-29

Signal Transformer Co
1661 McDonald Ave 2-3-4-5-6-7-9-10-13-15-16-
Brooklyn NY 17-18-19-20-22-26-27-28-31

Simmonds Appearances Inc
Vergrines Vt 2-3-9-16-25-31

Simpson Mfg Co Mark
32-28 49 St Long Island City 3 NY 13

Skysweeper Inc
P O Box 92 2-3-4-5-6-7-9-10-11-13-15-16-
McHenry Ill 17-18-19-26-28-31

SNC Mfg Co
P O Box 277 2-3-4-5-6-7-10-11-12-13-15-16-
Oakhosh Wisc 17-23-28-31

Sola Electric Co
4633 W 16 St Chicago 50 Ill 29

Sorensen & Co
Richards Ave Norwalk Conn 10-11

Southwestern Industrial Electronics Co
2831 Post Oak Rd 2-3-4-13-15-16-17-20-22-23-
Houston 19 Texas 25-26-27-28-29

Sperry Gyroscope Co
Microwave Electronics Div
Great Neck NY 14

Spivey Inc James S
4808 Hampden Lane Washington 14 DC 23

Sprague Electric Co
Marshall St North Adams Mass 23

Standard Electronics Div Radio Eng'g Lab
30 A Borden Sta 2-4-6-7-9-10-11-12-13-14-15-
Long Island City NY 16-18-23-24-25-29

Standard Winding Co
44 Johnes St Newburgh NY 1-9-23-24-25

Stanley Transformer Co 2-3-4-5-6-7-9-10-11-
31-23 Vernon Blvd 12-13-15-16-18-19-23-26-
Long Island City NY 27-28-29-31

Stanwick Winding Co
137-151 Walsh Ave Newburgh NY 1-2-24

Sterling Transformer Corp
297 N 7 St 2-4-5-7-9-11-13-15-16-
Brooklyn 11 NY 23-27-28

Strong Electric Corp
87 City Park Ave Toledo 1 Ohio 4-9-31

Studio TV Product Sales
342 W 40 St 2-3-4-5-6-7-9-10-11-12-13-15-
New York 18 NY 16-18-19-28-31

Summit Coil Co
4 Claremont Rd Bernardsville NJ 24

Summit Electronic Products
14706 Arminta St 2-7-9-10-13-17-20-22-25-26-
Van Nuys Calif 27-31

Superior Electric Co
206 Bradley Ave Bristol Conn 4-7-9-29

Sylvania Electric Products
60 Brinton St 2-4-6-7-9-10-13-16-17-18-19-20-
Salem Mass 22-23-25-26-28

Technicraft Labs Inc
Thomaston-Waterbury Rd
Thomaston Conn 14

Techniques Inc
52 Jackson Ave Hackensack NJ 30

Technitrol Eng'g Co
1952 E Allegheny Ave Philadelphia 34 Pa 23

Tele-Coil Co
2733 Saunders St Camden 5 NJ 8-21-24

Teletro Industries Corp
35-18 37 St Long Island City 1 NY 1-2-9

Electron Co Div Elliot & Evans
Bldg 9 Broward International Airport
Pt Lauderdale Fla 8

Teleradio Eng's Corp
Shannon & Barrett Sts
Wilkes-Barre Pa 1-8-24-26

Telegraph Construction & Maintenance Co Ltd
Mercury House Theobalds Rd
London W C 1 England 30

Telrad Mfg Corp
Route 69 Flemington NJ 14

Telrad Mfg Corp
1440 Broadway New York 18 NY 14

Telus
1633 Eustia St
St Paul 1 Minn 2-3-23-24-25

Telkor Inc
N Murray Ridge Rd Elyria Ohio 1

Tel-Rad Electronics Corp
137-29 Rockaway Blvd S
Ozone Park 29 LI NY 1-24

Temple Mfg Co
1939 Bryn Mawr Ave Chicago 26 Ill 30

Tenmar Electric Development Co 1-2-3-4-5-6-7-
1873 Eastern Pkwy 9-10-11-12-13-15-16-17-
Brooklyn 33 NY 18-19-20-22-23-25-26-28-31

Thomas & Skinner Inc
1120 E 23 St Indianapolis 7 Ind 30-31

Thomson Messner Mfg 1-2-3-4-5-6-7-8-9-10-
Div Messner Industries Inc 11-12-13-14-15-
70 & Belmont 16-17-18-19-20-21-22-23-24
Mt Carmel Ill 26-27-28-29-31

Tield Products Co 1-2-3-4-5-6-7-9-10-12-13-15-
156 Gramatan Ave 16-17-18-19-20-25-26
Mt Vernon NY 27-28-31

Topper Mfg Co Inc
147-12 Lakewood Ave
Jamaica 35 NY 27-30-31

Top Industries Inc
8907 Wilshire Blvd
Beverly Hills Calif 29-23-25

Torresco Inc
2615 Bristol Rd Columbus 21 Ohio 25

Torsted Inc
5512 E 110 St
Kansas City 24 Mo 2-3-4-10-13-25-26

Torwico Electronics Inc
1099 Morris Ave
Union NJ 2-4-5-6-7-9-16-17-20-25-25-26

Transformer Eng'g
2-3-4-5-6-7-9-10-11-12-
285 N Halsted 13-15-16-18-19-20-22-23-
Pasadena Calif 25-26-27-28-29-31

Transformer Technicians Inc 2-3-4-5-6-7-9-
2608 N Cicero Ave 10-11-12-13-15-16-17-18-
Chicago 29 Ill 19-20-22-23-25-26-28-29-31

Transformers Inc
200 Stages Rd 2-3-4-5-6-7-9-10-11-12-13-15-16-
Vestal NY 17-18-19-20-22-23-25-26-27-28

Transonic Inc 1-2-3-4-5-6-7-9-10-11-12-13-14-
808 16 St 15-16-17-18-19-20-22-23-25-26-
Bakersfield Calif 27-28-29-31-32

Trenton Transformer Corp
P O Box 568 822 E State St 2-3-4-5-6-7-9-
Trenton NJ 10-11-12-13-15-16-18-19-28-31

Troco Inc
3824 Terrace St 2-3-4-5-7-9-10-13-15-16-17-
Philadelphia 29 Pa 18-19-20-22-23-26-27-28-31

Triad Transformer Corp
4055 Redwood Ave 2-3-4-5-7-8-9-10-11-13-15-
Venice Calif 16-17-18-19-20-23-25-26-28-31

Tronic Coil Winding Co Inc
58 Wesley St Waterbury Conn 5-23-29

Union Electric Products Co 2-3-4-5-6-7-8-9-10-
24 Edison Pl 11-12-13-14-15-16-17-18-19-20-
Newark 2 NY 21-22-23-25-26-27-28-29

United Transformer Corp Pacific Div
4005 W Jefferson Blvd 2-3-4-5-6-7-8-9-10-11-
Los Angeles 16 12-13-15-16-17-18-19-20-23-
Calif 22-23-25-26-27-28-29-31

United Transformer Corp
150 Varick St 11-12-13-15-16-17-18-19-20-
New York 13 NY 22-23-25-26-27-28-29-32

University Loudspeakers Inc
80 S Kenosca Ave White Plains NY 2

U S Electronics Corp 1-2-3-5-6-7-8-9-10-
278 Warren St 11-12-13-15-16-17-18-
Lyndhurst NJ 19-21-24-25-26-27-28-29

Utility Metal Products Co
117 Elliott St 2-3-4-6-7-9-10-11-12-13-15-16-
Beverly Mass 17-20-23-25-26-28-29

Valandy Electronics Corp
61-35 166 St Flushing 68 NY 2

Valar Electronics Co
13214 Crenshaw Blvd Gardena Calif 23-25

Value Electronic Components Co
5808 Marlynn Ave
Culver City Calif 23-24-25

Vanguard Electronics Co
3384 Motor Ave Los Angeles 34 Calif 1-24

Varo Mfg Co 1-2-3-4-5-6-7-8-9-10-11-12-13-
2201 Walnut St 14-15-16-17-18-19-20-22-23-
Garland Texas 24-25-26-28-29-31

Vibropower Co James
4050 N Rockwell St 2-3-4-7-10-11-16-
Chicago 18 Ill 18-20-28

Vibra Seal Corp
2832 E Grand Blvd Detroit 11 Mich 6-31

Vidair Electronics Mfg Corp
14 Church St Baldwin NJ 1

Virginia Electronics Co 2-3-4-7-8-10-11-13-
River Rd & B & O R R 15-16-17-18-19-22-
Washington 16 DC 24-26-28-29-31

Vokar Corp
7300 Huron River Dr Dexter Mich 24-26

Waco Inc
2052 Broadway
Santa Monica Calif 4-5-7-9-10-11-16

Warsaw Coil Co
Segal St Warsaw Ind 24

Waters Mfg Inc
Boston Post Rd Wayland Mass 24-31

Waveline Inc
P O Box 718 Caldwell NJ 14

Westbury Electronics Inc
300 Shames Dr Westbury NY 1-18

Western Coil Products Co
969 Commercial St Palo Alto Calif 1-24

Westinghouse Electric Corp
P O Box 868 2-3-4-5-6-7-9-10-11-12-13-15-
Pittsburgh 30 Pa 16-17-19-23-25-28

Weston Electrical Instrument Corp
614 Fredinbushen Ave Newark 12 NJ 11

Weymouth Instrument Co
1440 Commercial St E Weymouth 89 Mass 14

Wheeler Insulated Wire Co 1-2-3-4-5-6-7-9-10-
150 E Aurora St 11-12-13-15-16-17-18-20-23-
Waterbury 20 Conn 25-26-27-28-29-31

Whitewater Electronics Inc
136 Main St Whitewater Wis 1-24-26

Wright Zimmerman Inc
New Brighton St Paul 12 Minn 8-24

95—TRANSMITTERS

Radioesondes 1

Transmission monitoring equip-
ment 2

Transmitters, amateur 3

Transmitters, aviation 4

Transmitters, broadcast AM.... 5

Transmitters, broadcast FM.... 6

Transmitters, broadcast UHF-TV 7

Transmitters, broadcast VHF-TV 8

Transmitters, citizens radio... 9

Transmitters, code 10

Transmitters, color TV 11

Transmitters, direction finding.. 12

Transmitters, facsimile 13

Transmitters, fixed frequency... 14

Transmitters, fixed station comm. 15

Transmitters, loran 16

Transmitters, marine 17

Transmitters, microwave 18

Transmitters, mobile 19

Transmitters, pulse time
modulation 20

Transmitters, radar 21

Transmitters, radio range 22

Transmitters, railroad 23

Transmitters, satellite 29

Transmitters, single sideband.. 24

Transmitters, sonar 25

Transmitters, telemetering 26

Transmitters, UHF 27

Transmitters, VHF 28

Acme Teletronix Div New Service
1200 W 3 St Cleveland 13 Ohio 13

Adler Electronics Inc
J Lefevre Lane
New Rochelle NY 5-7-8-14-18-20-21-24-
26-27-28-29

Admiral Corp
3800 W Cortland St
Chicago 47 Ill 18-21-27-28

Advance Industries Inc
640 Memorial Dr Cambridge 39 Mass 21-25

Aerovet General Corp
Ordnance Eng'g Div Frederick Md 26

Aeronautical Comm Equip Co
3090 S W 39 Ave Miami 33 Fla 4-10-12-14-15

Aeronautical Electronics Inc
P O Box 6527 Raleigh NC 4-14-19-23-24

Aerophysics Dev Corp
Sub Carissa-Wright Corp
Santa Barbara Calif 1-2-20-24-25-27-29

Airecom Inc
354 Main St Winthrop Mass 18-20-26

Aircraft Radio Corp
Boonton NJ 4-27-28

Airtron Inc
1108 W Elizabeth Ave Linden NJ 18-21

Alto Scientific Co
855 Commercial St Palo Alto Calif 21

American Electronics Co
1203 Bryant Ave New York 59 NY 3

American Machine & Foundry Co
Defense Products Group
1101 N Royal St Alexandria Va 20-21-22-26

American Microwave Corp
11754 Vose St N Hollywood Calif 18

American Printed Circuits Co
104 Forest St Metuchen NJ 26

Amtron Corp
17 Felton St Waltham 54 Mass 6

Applied Electronics Co
213 E Grand Ave
San Francisco Calif 14-16-17-19

A R & T Electronics Inc
1501 E 6th St N Little Rock Ark 9-26

Audicon Electronics Inc
216 Lyon St
Paterson 4 NJ 2-4-5-6-8-9-14-15-21

Aver Mfg Corp Crosley Div
1329 Arlington St Cincinnati 25 Ohio 1-10-21

Avia Products Co
7266 Beverly Blvd
Los Angeles 36 Calif 36

Avion Div ACF Industries Inc
11 Park Pl Paramus NJ 1-18

Babcock Radio Eng'g Inc
7942 Woodley Ave Van Nuys Calif 27

Bailey Meter Co
1050 Ivanhoe Rd Cleveland 19 Ohio 26

Backer & Williamson Inc
Canal & Heaver Sts
Detroit Pa 5-10-12-14-15-20-24-26

Bassett Inc Htx
1314 N E 17 Ct Ft Lauderdale Fla 4-14-17

Beil Aircraft Corp
P O Box 1 Buffalo 5 NY 18-20-21

Bendix Aviation Corp Pacific Div
15000 Sherman Way
North Hollywood Calif 17-20-26

Bendix Aviation Corp-Fries Instrument Div
1400 Taylor Ave Baltimore 4 Md 1

Bendix Aviation Corp Bendix Radio Div
Baltimore 4 Md 1

Bendix Aviation Corp
1104 Fisher Bldg
Detroit Mich 1-4-17-18-21-23-25-26

Bristol Co
P O Box 1790 El Waterbury Conn 14-26

Bryx Inc
Butler Pa 11

Budelman Radio Corp
373 Fairfield Ave
Stamford Conn 5-14-15-18-27-28

Bunnell & Co J H
81 Prospect St Brooklyn 1 NY 30

Canadian Aviation Electronics Ltd
8214 Cote de Liesse Rd
St Laurent Quebec Canada 3

Canon Corp
5955 Sepulveda Blvd
Van Nuys Calif 19-20-21-27-28

Central Electronics Inc
1247 W Belmont Ave
Chicago 13 Ill 2-6-14-15-17-24

Centronix Inc
34 Alexander St Corona Fla 26

CG Electronics Corp
1500 Central St Albuquerque NM 4

Clegg Labs Div Clegg Inc
Ridgedale Ave
Morristown NJ 1-3-14-15-24-27-28

Collins Radio Co
855 35 St NE 2-3-4-5-6-10-12-14-15-18-22-
Cedar Rapids Iowa 24-27-28

Com Instrument Co
66-11 99 St Forest Hills 74 NY 3

Communications Co
309 Green Ave Coral Gables Fla 4-14-15-19-28

Consolidated Productions Inc
Broward Int'l Airport
Pt Lauderdale Fla 14-19-27

Continental Electronics Mfg Co
4212 S Hooker Blvd
Dallas 27 Texas 5-7-16-14-15-18-24-27-28

Control Corp
718 Central Ave N E
Minneapolis 14 Minn 26

Convair-San Diego
P O Box 1950 San Diego 12 Calif 31

Corbin Corp
5419 56th Place
Riversdale Md 13-14-15-20-21-
22-24-27-28

Cosser Canada Ltd
315 Windsor St
Halifax Nova Scotia Canada 28

Crosby Labs Inc
Box 233 Robbins Lane Hicksville NY 13-24

Crown Engineering
3821 Commercial N E Albuquerque NM 26

Daven Co
Route 10 1-2-4-5-6-10-12-14-15-16-17-18-20-22-
Livingston NJ 23-24-25-26-27-28-29

Dayton Aviation Radio & Equipment Corp
P O Box 259 Troy Ohio 4-9-21-27-28

Designers For Industry
4241 Fulton Pkwy
Cleveland 9 Ohio 21-24-27-28-29

Dollar Co Robert Communications Equip Div
50 Drumm St San Francisco 11 Calif 14

DoMonte Labs A B
250 Bloomfield Ave Clifton NJ 9-19

Dynatronix Inc
717 W Amelia Ave Orlando Fla 26-28

Eldico Electronics
29-61 Barden Ave
Long Island City 1 NY 9-4-10-14-15-17-
19-23-24-28

Electronic Communications Inc
1501 72 St 4-12-13-14-15-16-17-19-21-22-
St Petersburg Fla 24-25-27-28-29

Electronics Design Co
400 E Carnell St P O Box 401
Enid Okla 3-4-9-14-15-19-27-28

Electronics Development Co
3743 Cahuzenga Blvd N
Hollywood Calif 4-7-8-26

Electronics Int'l Co Inc
20 N Lee St Oklahoma City 2 Okla 3

Endevco Eng'g Development Co of Los Angeles
148-50 Wilmington Blvd Wilmington Calif 17

Erco Radio Labs Inc
687 Stewart Ave
Garden City NY 6-10-12-14-16-17-19-22-
24-26-27-28

Feller Eng'g & Mfg Co
8026 N Monticello Ave Skokie Ill 9

Foto-Video Labs Inc
25 Amity St Little Falls NJ 11

Frederick Tool & Eng'g Corp
414 Pine Ave Frederick Md 3

Friez Instrument Dis Bendix Aviation Corp
1409 Taylor Ave Baltimore 4 Md 1-4

Gates Radio Co
123 Hampshire St
Quincy Ill 4-5-6-8-10-11-14-22

General Communication Co
677 Heaton St Boston 15 Mass 18-21

General Devices Inc
P O Box 253 Princeton NJ 20-26-29

General Electric Co
Apparatus Sls Div
1 River Rd Schenectady 5 NY 4

General Electric Co
Communication Products Dept
P O Box 1122
Syracuse NY 9-15-17-18-19-23-27-28

General Precision Lab Inc
63 Bedford Rd Pleasantville NY 21

General Railway Signal Co
P O Box 909 Rochester NY 21

G & M Equipment Co
7515 Varona Ave N Hollywood Calif 17

Grainger Associates
968 Commercial St
Palo Alto Calif 14-18-20-21-27-28

Gray Mfg Co
16 Arbor St Hartford 1 Conn 28

Gray Radio Co
501 Forest Hill Blvd W Palm Beach Fla 17

Greene Co L Charlton
314 Washington St Newton 58 Mass 9

Green Eng'g Co
923 Longview Rd King of Prussia Pa 18-21

Gulton Industries Inc
212 Durham Ave Metuchen NJ 20-23-26-27-28

Gyro Electronics Co
325 Canal St New York 13 NY 5-6

Halloran Electronics Co
3532 Brookhurst Ave Anaheim Calif 26

Haller Raymond & Brown
Cireleville Rd 1-7-8-10-12-13-14-15-20-21

State College Pa 25-24-25-26-27-28-29

Hartstahl Laboratories
474 E 2nd St
Brooklyn 26 NY 3-9-10-15-19-28

Harvey-Wells Electronics Inc
North St Southbridge Mass 3

Hawkins Commercial Electronics Co
920 King St Wilmington 1 Dela 15-19

Hazeltine Electronics Div Hazeltine Corp
59-25 Little Neck Pkwy 10-14-15-18-21-
Little Neck 62 NY 22-27-28

Health Co
305 Territorial Rd Benton Harbor Mich 3

Hoffman Electronics Corp
3751 S Hill St 1-2-4-19-21-24-25-
Los Angeles 7 Calif 27-28-29

Hoann Labs Inc
155 Perry St New York 14 NY 13

Hudson American
3901 Borden Ave Long Island City NY 17

Industrial Radio Corp
428 N Parkside Ave
Chicago 4 Ill 5-19-23-28

Industrial Research Labs
Div Acrona Mfg Corp
Hilton & Fredericks Rds Baltimore Md 8-28

Inland Electronics Corp
500 Bathbone Ave Aurora Ill 14

Instrument Corp of Fla
P O Box 1226 Bldg 14
Melbourne Fla 2-3-12-15-24

Interstate Electronics Corp
707 E Vermont Ave Anaheim Calif 26-27

I-T-E Circuit Breaker Co Special
Products Div 601 E Erie Ave
Philadelphia 34 Pa 13

Jacobs Instrument Co
4718 Bethesda Ave Bethesda 14 Md 26-29

Javelin Electronics Corp
1140 Cherry St Winnetka Ill 4

Jefferson Inc Ray
40 E Mercier Rd Freeport NY 17

Johnson Aircraft Eng'g Co
Geophysical Services Div
P O Box 10 Morrisstown NJ 26-29

Johnson Co E F
208 2 Ave S W Waseca Minn 3-10-15-24

Kahn Research Labs
22 Pine St Freeport NY 24

Kay Electric Co
14 Maple Ave Pine Brook NJ 11

Laboratory For Electronics Inc
75 Pitts St Boston 14 Mass 21

Lambda-Pacific Eng'g Inc
14725 Armita St Van Nuys Calif 18

Land-Air Inc
7444 W Wilson Ave Chicago 31 Ill 19-27

Lavoie Labs Inc
Matawan-Freehold Rd
Morganville NJ 18-21-22-27-28

Lear Inc
3171 S Bundy Dr Santa Monica Calif 4-14-28

Lenkurt Electric Co
1185 County Rd San Carlos Calif 18

Link-Radio Corp
110 Jericho Turnpike
New Hyde Park LI NY 9-14-15-17-19-
24-27-28

Lettinger Radio Mfg Co
62 Berkeley St Valley Stream NY 3-14-15-28

Levinthal Electronic Products Inc
3180 Hanover St
Palo Alto Calif 14-18-20-21-24-27

Ling Electronics Inc
9937 Jefferson Blvd Culver City Calif 25

Liquidometer Corp
41-03 36 St Long Island City 1 NY 4

Liton Industries of Calif
336 N Foothill Rd 4-12-16-20-
Beverly Hills Calif 21-25-26

Lorain County Radio Corp
203 9th St Lorain Ohio 17

L & O Research & Dev Corp
134 N Wayne Ave Wayne Pa 13

Lynmar Engineers Inc
1432 N Carlisle St
Philadelphia 21 Pa 3-14-24

Mack Electronics Div Inc
1900 S 2 St Plainfield NJ 4-21-24-27-28

Madigan Corp
526 Minosia Ave
Carle Place NY 4-9-14-15-17-19-36-49

Magnavox Co
2131 Bueter Rd Ft Wayne Ind 1-4-22

Maico Co Inc
21 N 3rd St Minneapolis 1 Minn 26

Manson Laboratories Inc
207 Greenwich Ave Stamford Conn 27

Maryland Electronic Mfg Corp
5009 Calvert Rd
College Park Md 14-22-29

Maxson Corp W L
475 10 Ave New York 18 NY 18-21

Measurement Eng's Ltd
232 John St Arnprior Ontario Can 14-15-17

Michigan Electronics Inc
854 N Rockwell St Chicago 22 Ill 14

Millen Mfg Co James
150 Exchange St Malden 48 Mass 3-10-14-23

Minn-Honeywell Regulator Co
Ordinance Div 600 2 St N Hopkins Minn 25

Mitchell Industries Inc
Municipal A P P O Box 17
Mineral Wells Texas 4

Model Eng'g & Mfg Inc
50 Frederick St
Huntington Ind 12-14-15-23-27-28

Molded Insulation Co
835 E Price St Philadelphia 44 Pa 1

Moore Associates Inc
2628 Spring St Redwood City Calif 23-26

Moran Instrument Corp
170 E Orange Grove Ave
Pasadena 4 Calif 21

Morrow Radio Mfg Co
2794 Market St Salem Oregon 5-19-24

Mosler Research Products Inc
3 Keefer St Danbury Conn 19

Muirhead Instruments Inc
677 5 Ave New York 22 NY 17

Multi-Products Co
21470 Coolidge Hwy
Oak Park 37 Mich 5-9-10-17-19-24

National Aeronautical Corp
Commerce Dr Ft Washington Penna 4-25

National Electronics Labs Inc
1713 Kalamara Rd NW
Washington 9 DC 14-19-28

Nemac-Larke Inc
918 Jessup-Blair Dr Silver Spring Md 26

Nevada Air Products Co
P O Box 2472 Reno Nev 4-18-20-21-26-27

Norden-Ketay Corp
Commerce Rd Stamford Conn 21

Nuclear-Electronics Corp
2632 W Conoverland St
Philadelphia 32 Pa 10-14-17-27

Olympic Radio & TV
34-01 38 Ave
Long Island City 1 NY 12-27-28

Otis Elevator Co Electronic Div
65 Hyzoner St Brooklyn 5 NY 21-24

Packard-Bell Electronics Corp
12333 W Olympic Blvd
Los Angeles 64 Calif 4-23

Parsons Co Ralph M Electronics Div
151 S De Lacey Ave Pasadena Calif 26

Pearce Simpson Inc
3023 Coral Way Miami 34 Fla 14-15-17-19

Peer Inc
1280 Milton St Benton Harbor Mich 28

Philco Corp
Tioga & C Sts
Philadelphia 24 Pa 19-21-25-26-27-28-29

Philco Corp Govt & Industrial Div
4700 Wissahickon Ave 4-5-6-7-8-11-13-16-
Philadelphia 44 Pa 17-18-19-21-27-28

Planet Service Corp
88-02 88-06 102 St Richmond Hill 18 NY 17

Pratt Albert
114 W Lake View Ave
Milwaukee 17 Wisc 14-15-18-19-27-28

Press Wireless Labs Inc
25 Prospect Pl W Newton 65 Mass 13-15

Production Research Corp
Thornwood NY 14-15-17-18-19-28

Pye Canada Ltd
82 Northline Rd
Toronto 16 Ontario Canada 4-8-11-14-15-
17-18-19-28

Pye Corp of America
1149 Raritan Ave
Highland Park NJ 4-14-15-17-19-27-28

Pye Telecommunications Ltd
Newmarket Rd 4-9-12-14-15-17-18-
Cambridge England 19-22-23-26-28

Radiation Inc
P O Box 37 Melbourne Fla 26

Radio City Products Co
Centre & Glendale Sts Easton Pa 12-15

Radio Corp of America Commercial Electronic
Products Front & Cooper Sts
Camden NJ 5-6-7-8-11-18-27-28

Radio Eng'g Labs
29-01 Borden Ave
Long Island City 1 NY 14-18-19-24-27-28

Radio Kits Inc
129 Cedar St New York 6 NY

Raunland-Horg Corp
3535 W Addison St Chicago 18 Ill 4-8-18

Raytheon Mfg Co Commercial Equip Div
100 River St Waltham 54 Mass 17-18-21

Raytheon Mfg Co
100 River St Waltham 54 Mass 17-18-21

Resdel Eng'g Corp
330 S Fair Oaks Ave
Pasadena Calif 14-18-19-21-27-28

Rich Electronics Inc
212 NW 8 Ave Miami 36 Fla 26

Rixon Electronics Inc
2414 Reddie Dr Silver Spring Md 28

Rotron Mfg Co
Schoonmaker Lane Woodstock NY 1

Royal Communication Systems
11492 Euclid Ave Cleveland 6 Ohio 14-15-19

Rue Products
1628 Venice Blvd
Venice Calif 3-9-14-15-17-19

Seismograph Service Corp
6200 E 41 St Tulsa 1 Okla 14

Shand & Jurs Co
2600 8th St Berkeley 10 Calif 26

Sierra Electronic Corp
3885 Bohannon Dr Menlo Park Calif 27

Simmonds Aeroaccessories Inc
Verdunnes Vt 10-12

Sklatron Electronics & TV Corp
180 Varick St New York 14 NY 13-20-26

Sonar Radio Corp
305 W 21 St Brooklyn 24 NY 17

Sorsman Industrial Electronic Co
Route 10 Dover NJ 9

Sperry Gyroscope Co Sunnyvale Dev Center
294 Commercial St Sunnyvale Calif 21

Sperry Gyroscope Co
Air Arm Div Great Neck NY 16-21

Sperry Gyroscope Co
Surface Armament Div Great Neck NY 21

Spizay Inc James S
4008 Hampden Lane
Washington 14 DC 14-15-26

Springfield Enterprises
138-17 Springfield Blvd
Springfield Gardens 13 NY 3-28

Standard Electronics Div Radio Eng'g Labs
30 & Borden Sts 5-6-7-8-11-14-15-
Long Island City NY 18-19-27-28-29

Statistical Instr Co
330 Haven Ave New York 33 NY 9

Stavid Eng'g Inc
U S Route 22 Plainfield NJ 4-18-20-21-25-26

Stelma Inc
190 Henry St Stamford Conn 2-23

Stewart Warner Electronics Div
1300 N Kostner Ave Chicago 54 Ill 12

Stromberg-Carlson Div General
Dynamics Corp 100 Carlson Rd
Rochester 3 NY 9-14

Sylvania Electric Products Co
Electric Systems Div
100 First Ave
Waltham 54 Mass 1-12-15-18-21-27-28

Taller & Cooper
75 Front St Brooklyn 1 NY 26

Tarsian Inc Sarkes
415 N College Ave
Bloomington Ind 8-11-15-29

Technical Material Corp
708 Fenimore Rd
Mamaroneck NY 3-4-15-14-15-17-24

Technical Oil Tool Corp
1057 N La Brea Los Angeles 38 Calif 15-21

Telechrome Mfg Corp
28 Ranick Dr Amityville LI NY 11-26

Tele Communications Inc
41 E 42 St New York NY 5

Telectro Industries Corp
35-18 37 St 2-4-10-12-14-15-18-
Long Island City 1 NY 20-21-22-24-26-27-28

Telectron Co Div of Elliot & Evans
Bldg 9 Broward International Airport
Ft Lauderdale Fla 14

Tele-Dynamics Inc
51st & Parkside Ave Philadelphia 4 Pa 18-20

Telemarine Communications Co
140 W Broadway
New York 13 NY 4-9-14-15-17-19-28

Telemetering Associates
6419 Indigo St Houston Texas 26-28

Telephonics Corp
Park Ave
Huntington LI NY 12-14-18-19-24-25-27-28

Televad Mfg Corp
Route 59 Flemington NJ 18-21-26

Televad Mfg Corp
1440 Broadway New York 18 NY 18-21

Teneco Aircraft Corp
P O Box 6191 Dallas 2 Texas 26

Texas Instruments Inc
6000 Lemmon Ave Dallas 9 Texas 26

Times Facsimile Corp
540 W 58 St New York 19 NY 13

Topp Industries Inc
8907 Wilshire Blvd
Beverly Hills Calif 4-12-15-17-24-27-28

Transtron Inc
186 Granite St Manchester NH 3-15-19

Transline Electronic Communication Co
95 Summit St Newark 3 NJ 13

United Electrodynamics
1200 S Marengo Ave Pasadena Calif 26-28

U S Recording Co
1347 S Capital St Washington 5 DC 19

Van Norman Industries Inc Electronics Div
186 Granite St Manchester NH 14-19

Vapor Recovery Systems Co
2820 N Alameda St Compton Calif 26

Varo Mfg Co
2201 Walnut St
Garland Texas 14-15-19-26-28

Virginia Electronics Co
River Rd & B & O RR
Washington 16 DC 2-14-15-17-19

Voron & Co George
835 N 19 St Philadelphia 30 Pa 15-17-19

Waldorf Instrument Co Div F C Huyek & Sons
Park Ave Huntington Station NY 1-21

Warren Mfg Co
Newtown Rd Littleton Mass 26

Wells-Gardner & Co
2701 N Kildare Ave Chicago 39 Ill 0

West Coast Electronics Co
9261 W 8 St Beverly Hills Calif 20-26

Westinghouse Electric Co Div Air Arm Div
P O Box 746 Friendship Int'l A P
Baltimore Md 21-29

Westinghouse Electric Corp
P O Box 868
Pittsburgh 30 Pa 10-15-18-21-24-26-27-28

Westrex Corp
111 R Ave New York 11 NY 18-14-15-24

WRL Electronics Inc
3415 W Broadway
Council Bluffs Iowa 3-9-10-14-15-19-24

Young Spring & Wire Co Ganset Div
801 S Main St
Burbank Calif 3-4-10-14-15-19-24-27-28

Z & W Mfg Corp
30240 Lakeland Blvd Wickliffe Ohio 0

96—TRANSMITTER ACCESSORIES

Blowers	1
Control alarms	2
Control consoles	3
Couplers	4
Diplexers	5
Duplexers	9
Keys	6
Keys	7
Power supplies	8

Acme Electric Corp
Water St Cuba NY 8

Adler Electronics Inc
1 Lefevre Lane New Rochelle NY 6-8

Aeronautical Comm Equip Co
3090 S W 39 Ave Miami 33 Fla 6

Aircon Inc
185 E 1st St Roselle NJ 9

Aitron Inc
1108 W Elizabeth Ave Linden NJ 4-9

Alford Mfg Co
289 Atlantic Ave Boston 10 Mass 5

Alto Scientific Co
855 Commercial St Palo Alto Calif 8

American Electronics Co
1203 Bryant Ave New York 59 NY 2-4

American Television & Radio Co
300 E 4 St St Paul 1 Minn 8

Amp Inc Capitor Div
155 Park Ave Elizabethtown Pa 8

Amtron Corp
17 Felton St Waltham 54 Mass 4-8-9

Avion Div ACP Industries Inc
11 Park Pl Paramus NJ 8-9

Barker & Williamson Inc
Canal & Beaver Sta Bristol Pa 4-6

Barry Electronics Corp
512 Broadway New York NY 8

Boehme Inc H O
916 Broadway New York 10 NY 6-7

Bogart Mfg Corp
315 Seigel St Brooklyn 6 NY 9

Bozue Electric Mfg Co
52 Iowa Ave Paterson 1 NJ 8

Bulton Labs Inc
W Main St Bolton Mass 2-5

Budelman Radio Corp
375 Fairfield Ave Stamford Conn 8

Busa-Clement-Doughten & Associates
201 H Studio Hill Chester Springs Pa 8

Canadian Aviation Electronics Ltd
6214 Cote de Liesse Rd St Laurent
Quebec Canada 4-6

Canoga Corp
5855 Sepulveda Blvd Van Nuys Calif 9

Centronix Inc
34 Oleander St Cocoa Fla 1

Coil Winders Inc
30 New York Ave New Cassel
Westbury LI NY 8

Clegg Labs Div Clegg Inc
Ridgedale Ave Morristown NJ 8

Collins Radio Co
855 35 St N E Cedar Rapids Iowa 3-5-9

Continental Electronics Mfg Co
4212 S Buckner Blvd Dallas 27 Texas 8

Control Corp
718 Central Ave
N E Minneapolis 14 Minn 3-8

Cook Co Frank M
36 S Santa Fe Dr Denver 23 Colo 8

Creative Electronics Corp
94 Lincoln Ave Stamford Conn 8

Daven Co
Route 10 Livingston NJ 8

Deane & Benson Research Inc
16 Richmond St Clifton NJ 1

Defance Eng'g & Microwave Corp
Beverly Airport Beverly Mass 4-5

Demornay-Bonardi Corp
780 S Arroyo Pkwy Pasadena Calif 8

Dielectric Products Eng'g Co
Raymond Me 4-5-9

Dittmore-Freimuth Corp
2517 E Norwiche St Milwaukee 7 Wisc 6-7

Dressen-Barnes Corp
250 N Vinedo Ave Pasadena Calif 8

Du Mont Labs A II
750 Bloomfield Ave Clifton NJ 2-9

Eicor Inc Div Jacobs Co
517 W Walnut St Orelshy Ill 1-8

Eldico Electronics
29-01 Barden Ave
Long Island City 1 NY 3-4-6-7-8

Electric Boat Div General Dynamics
Eastern Point Rd Groton Conn 1

Electric Trading Co
313 Canal St New York 13 NY 1

Electronic Specialty Co
5121 San Fernando Rd
Los Angeles 38 Calif 5-6-8-9

Engineered Magnetics
Div Gulton Industries Inc
13030 Cerise Ave Hawthorne Calif 8

Falstrom Co
Falstrom Court Passaic NJ 3

Fansteel Metallurgical Corp
2200 Sheridan Rd N Chicago Ill 8

Fasco Industries Inc
255 N Union St Rochester 2 NY 1

F.R. Machine Works Inc
Electronic & X-Ray Div
26-12 Borough Pl Woudside 77 NY 4-5-9

Gabriel Electronics Div Gabriel Co
135 Crescent Rd
Needham Heights 94 Mass 5-9

Gates Electronics Co
2080 Harms Ave Bronx 92 NY 8

Gates Radio Co X-Ray Div
123 Hampshire St Quincy Ill 2-3-4-6-8

General Devices Inc
P O Box 253 Princeton NJ 6-8-9

Granger Associates
966 Commercial St Palo Alto Calif 8

Green Rectifier Co
1-10 30 St Fairlawn NJ 4-5-9

Guild Electronics Inc
388 Broadway New York 13 NY 8

Gulton Industries Inc
212 Durham Ave Metuchen NJ 8

Haller Raymond & Brown
Circleville Rd State College Pa 8

Harvey-Wells Electronics Inc
North St Southbridge Mass 4

ILG Electric Ventilating Co
2850 N Pulaski Rd Chicago 41 Ill 1

Industrial Development Eng'g Assoc
7900 Pendleton Pk Indianapolis Ind 2

Johnson Co E F
206 2 Ave S W Waseca Minn 4

Juy Mfg Co
433 Oliver Bldg Pittsburgh 22 Pa 1

Kluge Electronics Inc
5 & Main Sta Albion Nehr 2

Kuss Industries Inc
Taunoy & Lewis Sta Philadelphia 24 Pa 3

Lambda Electronics Corp
11-11 131 St College Point 56 NY 8

Lieco Inc
3610 Oceanide Rd Oceanside NY 4-9

Lynmar Engineers Inc
1432 N Carlisle St Philadelphia 21 Pa 3-4

Mack Electronics Div Inc
1010 S 2 St Plainfield NJ 3-4-6-8

Manson Laboratories Inc
207 Greenwich Ave Stamford Conn 1

Maxson Corp W L
475 10 Ave New York 18 NY 8

Measurement Eng'g Ltd
282 John St Arnprior Ontario Can 3

Meridian Metallcraft Inc
8739 S Miller Grove Dr Whittier Calif 4-9

Michigan Electronics Inc
854 N Rockwell St Chicago 32 Ill 2

Microphase Corp
Box 1166 Greenwich Conn 4-5-9

Microtech Inc
2975 State St Hamden 17 Conn 5-9

Millen Mfg Co James
150 Exchange St Malden 48 Mass 8

Minn-Honeywell Regulator Co
Aeronautical Div
2600 Ridgway Ave Minneapolis 13 Minn 4

Model Eng'g & Mfg Inc
50 Frederick St Huntington Ind 8

Moore Associates Inc
2628 Spring St Redwood City Calif 8

Multi-Products Co
21470 Coolidge Hwy Oak Park 37 Mich 8

NJE Corp
345 Carnegie Ave Kenilworth NJ 8

Northern Radio Co
143 W 22 St New York 11 NY 6

Otis Elevator Co Electronic Div
35 Ryerson St Brooklyn 5 NY 6-8

Plastic Capacitors Inc
2620 N Clybourn Ave Chicago 14 Ill 8

Premier Instrument Corp
52 W Houston St New York 12 NY 5

Press Wireless Labs Inc
26 Prospect Pl W Newton 65 Mass 6-8

Pye Telecommunications Ltd
Newmarket Rd Cambridge England 3

Radio Corp of America
Commercial Electronic Products
Front & Cooper Sta Camden NJ 5-8

Regency Div Idea Inc
7800 Pendleton Pike Indianapolis 26 Ind 2

Rendel Eng'g Corp
330 S Fair Oaks Ave Pasadena Calif 8

Rotating Components Inc
267 Green St Brooklyn 22 NY 1

Rue Products
1628 Venice Blvd Venice Calif 2-8

Saratoga Industries
Congress & Ballston Aves
Saratoga Springs NY 8

Sierra Electronic Corp
3886 Bohannon Dr Menlo Park Calif 4

Stanat Mfg Co
523 Shames Dr Westbury NY 1

Standard Electric Mfg Co
Haddon Ave W Berlin NJ 1

Standard Electronics Div Radio Eng'g Labs
30 & Borden Sts
Long Island City NY 5-8

Stelma Inc
190 Henry St Stamford Conn 6

Tarzan Inc Sarkes
416 N College Ave Bloomington Ind 8

Technical Material Corp
700 Fenimore Rd Manaroneck NY 3-4-9

Technisaf Labs Inc
Thomaston-Waterbury Rd
Thomaston Conn 3

Telechrome Mfg Corp
28 Ranick Dr Amityville LI NY 5

Telectro Industries Corp
35-18 37 St
Long Island City 1 NY 3-3-6-8-9

Telerad Mfg Corp
Route 68 Flemington NJ 8-9

Telerad Mfg Corp
1440 Broadway New York 18 NY 9

Topp Industries Inc
8907 Wilshire Blvd Beverly Hills Calif 8

UAC Electronics Div
Universal Transistor Prod. Corp
50 Bond St Westbury LI NY 8

Universal Transistor Products Corp
36 Sylvester St Westbury LI NY 8

Varo Mfg Co
2201 Walnut St Garland Tex 8

Virginia Electronics Co
River Rd & B & O R R
Washington 16 DC 2-8-8-8

Warren Mfg Co
Newtown Rd Littleton Mass 6

Western Gear Corp Electro Products Div
132 W Colorado St Pasadena 1 Calif 1

Westrex Corp
111 R Ave New York 11 NY 8

WRL Electronics Inc
3415 W Broadway Council Bluffs Iowa 2-8

97—TUBES

Tubes, ATR	1
Tubes, backward wave	2
Tubes, ballast	3
Tubes, battery charger	4
Tubes, cathode-ray	5
Tubes, ceramic	6
Tubes, color TV picture	7
Tubes, counting	8
Tubes, electron multiplier	9
Tubes, gamma ray	10
Tubes, gas	11
Tubes, geiger counter	12
Tubes, glow or discharge	13
Tubes, ignitor	14
Tubes, infra-red	15
Tubes, klystron	16
Tubes, magnetron	17
Tubes, miniature	18
Tubes, noise	19
Tubes, photo	20
Tubes, pirani	21
Tubes, power amplifier	22
Tubes, projection	23
Tubes, receiving	24
Tubes, rectifying, industrial	25
Tubes, rectifying, receiving	26
Tubes, rectifying, transmitting	27
Tubes, scintillation	28
Tubes, sparkgap	29
Tubes, special purpose	30
Tubes, strobe	31
Tubes, subminiature	32
Tubes, switching	33
Tubes, thyatron	34
Tubes, TR	35
Tubes, transmitting-receiving	37
Tubes, transmitting	38
Tubes, traveling wave	39
Tubes, TV camera iconoscopes	40
Tubes, TV camera image orthicons	41
Tubes, TV picture	42

Tubes, TV picture, rebuilt 43
Tubes, ultra violet 44
Tubes, voltage regulators 45
Tubes, X-ray 46

Accurate Eng'g Co
2005 Blue Island Ave Chicago 8 Ill 25
Aerovis Light Corp
653 11 Ave
New York 36 NY 8-11-12-13-15-30-31-33-44-45
Amglo Corp
4033 Ravenswood Ave
Chicago 13 Ill 11-13-20-30-31
Amperex Electronic Corp
230 Duffy Ave
Hicksville 11 NY 6-8-10-11-12-13-14-16-17-18-22-24-25-26-27-30-32-34-37-38-45-46
American Elite Inc
7 Park Ave New York 16 NY 22-24-26-32
Amperite Co
561 Broadway New York 12 NY 3
Anton Electronic Labs
1226 Flushing Ave
Brooklyn 37 NY 8-10-12-13-30-45
Anton Machine Works
1226 Flushing Ave Brooklyn 37 NY 12-17-46
Apex Electronics Inc
100 N St Passaic NJ 5-30
Applied Radiation Corp
2404 N Main St Walnut Creek Calif 16-46
Avenet Electronic Supply Co
35 N Moore St
New York 13 NY 16-24-25-26-30-37
Haid-Atomic Inc
33 University Rd
Cambridge 38 Mass 8-12-13
Barker Sales Co
956 Edgewater Ave Ridgefield NJ 30
Barry Electronics Corp
512 Broadway
New York NY 5-16-17-18-22-24-25-26-27-30-32-34-37-38-40-41
Bendix Aviation Corp Red Bank Div
Route 35
Eatontown NJ 1-2-6-8-9-11-12-13-14-16-17-18-19-22-24-25-26-27-29-30-32-34-35-37-39-45
Bendix Aviation Corp
1104 Fisher Bldg
Detroit 2 Mich 11-16-17-30-39
Black Light Corp of America
5114 Walnut Grove Ave
San Gabriel Calif 44
Bugue Electric Mfg Co
52 Iowa Ave Paterson 3 NJ 4-25-26-27-45
Bumar Labs Inc
Salem Rd
Beverly Mass 1-2-16-17-29-30-33-35-37-38-39
British Electronic Sales
Oakland Gardens
Flushing 64 NY 5-8-9-11-13-14-18-20-21-22-25-27-30-31-33-34-38-45
Burrughs Corp
6071 2 Ave Detroit 32 Mich 9
Burrughs Corp Electronic Tube Div
Box 1226 Plainfield NJ 8-19-30-33
Calviden Tube Corp
5222 W 104 St
Los Angeles 45 Calif 5-7-42-43
Carborundum Co Global Div
Hyde Park Blvd Niagara Falls NY 6
Carborundum Co Latrobe Plant
Refractories Div
Latrobe Pa 6-23
Cascade Research Corp
Div Monogram Precision Industries
53 Victory Lane Los Gatos Calif 2-22-25-37
CRS-Hytron Div Columbia Broadcasting System
100 Endicott St
Danvers Mass 5-6-7-18-22-24-25-26-27-30-34-37-38-45
Central Electronic Mfgs Inc
Sub Nuclear Corp of America
2 Richmond Pl
Denville NJ 1-19-25-27-30-35-37-38
Chatham Electronics Div Gera Corp
W Mt Pleasant Ave
Livingston NJ 3-8-11-22-24-25-26-27-30-34-37-45
Christie Electric Corp
3410 W 67 St Los Angeles 43 Calif 4
Chromatic Television Laboratories
1501 Broadway New York 30 NY 7-30-42
Cinema-Television Ltd Wormley Bridge Rd
Lower Sydenham
London SE 26 England 5-8-9-20
Clarnstat Mfg Co
Washington St Dover NH 3
Clowes Ceramic Corp
3711 Calhoun Ave Chattanooga 7 Tenn 6
Consolidated Electrodynamics Corp
Rochester Div
1775 Mt Read Blvd Rochester 4 NY 21
Continental Electric Co Taylor Tubes Inc
6 N Michigan Ave
Chicago 2 Ill 4-12-15-20-22-25-27-30-34-38
Continental Electronics Corp
2724 Lechia Blvd Los Angeles 58 Calif 42-43
Cruible Steel Co of America
P O Box 2518 Pittsburgh 30 Penna 6
Dallona Labs
5066 Santa Monica Blvd
Los Angeles 29 Calif 44
Demornay-Bonardi Corp
280 S Arroyo Pkwy Pasadena Calif 16
Diamond Power Specialty Corp
P O Box 415 Lancaster Ohio 40-41
Dinion Coil Co
Caledonia NY 40-41
Du-Co Ceramics Co
Box 278 Saxonburg Pa 6

Du Mont Labs Inc Allen B
750 Bloomfield Ave
Clifton NJ 5-7-9-11-15-20-24-28-30-34-42-44
Danice Corp
4555 W Congress St Chicago 24 Ill 25-46
Edgerton Gerneshausen & Grier
160 Brookline Ave Boston 15 Mass 34
Eitel-McCullough Inc
756 San Mateo Ave
San Bruno Calif 6-11-16-22-24-25-27-30-33-34-38-39
Electronic Enterprises Inc
65 7 Ave Newark NJ 3-11-22-25-27-34-39
Electronic Tube Corp
1200 E Mermaid Lane Phila 18 Pa 5
Electrons Inc
127 Sunset Ave Newark 3 NJ 11-25-34
Engineering Co
27 Wright St Newark 5 NJ 22-27-34
Eureka X-Ray Tube Corp
3250 N Kilpatrick Ave Chicago 41 Ill 25-46
Farnworth Electronics Co Div I T & T
3702 E Pontiac St
Fl Wayne Ind 5-9-15-20-23-28-30
Ferranti Electric Inc
30 Rockefeller Plaza
New York 20 NY 6-13-16-17-18-19-30-46
Fredericks Co Geo E
Bethayses Pa 11-13-15-20-21-30-39-44
Freeland Products Co
706 Dryades St New Orleans 12 La 38
Frenchtown Porcelain Co
Frenchtown NJ 6
Gary Wells Co
361 Rockaway Ave Valley Stream NY 24
Gaisler Labs
P O Box 252 Menlo Park Calif 39
Genalex Div British Industries Corp
80 Short Rd
Port Washington NY 5-17-18-22-34
General Electric Co
1-2-3-5-6-7-9-11-13-14-15-16-17-18-20-22-24-25-26-27-30-32-33-34-35-36-37-38-39-40-41-42-45
General Electric Co Ltd of England
80 Shore Rd
Port Washington NY 5-17-18-19-22-24-25-26-27-30-37-38-45
General Electric Receiving Tube Dept
316 E 9 St
Owensboro Ky 6-11-18-24-26-30-32-34
General Electric Co Power Tube Dept
Bldg 267
Schenectady 5 2-3-6-9-11-13-14-15-16-17-18-21-22-25-27-29-30-33-34-38-39-41
General Electric Co Cathode Ray Tube Dept
Bldg 6 Electronics Park
Syracuse NY 5-7-23-30-42-43
General Electric Co X-Ray Dept
4855 Electric Ave Milwaukee 1 Wis 46
General Electrodynamics Corp
4430 Forest Lane P O Box 517
Garland Texas 5-30
Glass Eng'g Labs Inc
601 O'Neill St Belmont Calif 12
Gordos Corp
250 Glenwood Ave
Hloomfield NJ 4-11-20-21-41
Green Rectifier Co
1-10 30 St Fairlawn NJ 21
Hewson Co
443 Broad St Newark 2 NJ 5
Huggins Labs Inc
711 Hamilton Ave Menlo Park Calif 39
Hughes Products Hughes Aircraft Co
5340 W 104 St Int'l Airport Sta
Los Angeles 45 Calif 2-30-39
Industrial Tubes Inc
321 Stevens St Geneva Ill 25-30-34
Instruments Inc
122 N Madison St Tulsa Okla 10-12
International Electronics Corp
81 Spring St
New York 12 NY 5-8-14-16-17-20-24-30-32-34-38-42-45
Isolantite Mfg Corp
Warren Ave Stirling NJ 6
Isotopes Specialties Inc
Box 688 Hurbank Calif 12-28
Kemlite Labs Inc
1819 W Grand Ave
Chicago 22 Ill 11-13-15-31-44-46
Kip Electronics Corp
29 Holly Pl
Stamford Conn 3-8-11-13-18-30-32-34-45
Kirchberger & Co M
83-81 W Forest Ave Englewood NJ 6
Krisa Electronics Inc
191-195 Oran St
Newark 4 NJ 5-7-23-42-43
Kuthe Labs
730 S 13 St Newark 3 NJ 6-34
Landaverk Electrometer Co
641 Sonora Ave Glendale 4 Calif 10-12
Lansdale Tube Co Div Philco Corp
Church Rd
Lansdale Pa 3-5-7-11-13-18-19-22-23-24-25-26-30-32-34-42-45
Leach & Garner Co Industrial Div
Leach & Garner Bldg Attleboro Mass 30
Leighton Labs H W
Joy Rd & Sunset Lane Hatboro Pa 12
Lewis & Kaufman Ltd Div of Int'l
Glass Corp P O Box 537
Los Gatos Calif 22-25-27-30-37-38
Littin Industries Electronic Display Lab
1476 66 St Emeryville Calif 5-7-30
Littin Industries of Calif
386 N Frothill Rd
Beverly Hills Calif 2-7-16-17-38-39
Louthan Mfg Co
Box 781 E Liverpool Ohio 2
Machlett Labs Inc
1063 Hope St
Springdale Conn 5-22-25-27-38-41-46

Mackay Research Labs
RR 2 Box 401
McHenry Ill 9-11-12-15-17-20-30-46
Menlo Research Lab
538 Phelan Ave San Jose Calif 13-44
Microwave Associates Inc
Burlington Mass 1-17-33-35-38
Monogram Precision Industries Inc
Cascade Research Div
53 Victory Lane
Los Gatos Calif 2-22-27-30-38
Mullard Overseas Ltd
Century House Shaftsbury Ave
London England 24
National Electronics Inc
628 North St Geneva Ill 11-14-25-30-34
National Television Tube Inc
P O Box 133 Rochelle Park NJ 5-42-43
National Union Electric Corp
1201 E Bell St
Bloomington Ill 5-9-13-18-22-30-33-45
Nevada Air Products Co
P O Box 2472 Reno Nev 15
Nurco Products Mfg Co
324 Hoecker St New York 11 NY 44
NRD Instrument Co
9842 Manchester Rd
St Louis 11 Mo 9-10-12-28
Nuclear-Chicago Corp
223 W Erie St Chicago 10 Ill 10-12
Nuclear Corp of America
400 Park Ave 1-4-10-11-12-13-14-19-21-27-28-29-30-34-35-37-38-45
Nuclear Development Lab
P O Box 7034 Kansas City 13 Mo 10-12
Nuclear-Electronics Corp
2302 W Cumberland St
Philadelphia 32 Pa 10
Nucleonic Corp of America
392 Decraw St Brooklyn 31 NY 9-10-12-28
OK Electronics Corp
7 Hunt Pl Nutley 10 NJ 25-26-27
Penta Laboratories Inc
312 N Nopal St
Santa Barbara Calif 11-22-27-30-34-38
Philco Corp Accessory Div
316 & Allegheny Ave
Philadelphia 34 Pa 24-42
Philco Corp
Tinga & C Sts
Philadelphia 24 Pa 5-7-13-18-24-30-32-42
Philips Electronics Inc
750 S Fulton Ave Mt Vernon NY 12-46
Pioneer X-Ray Corp
25 S Broadway White Plains NY 46
Polarad Electronics Corp
43-20 34 St
Long Island City 1 NY 2-6-16-17-30-39
Porcelain Products Inc
224 N Patterson St Carey Ohio 6
Glasco Co
470 Broad St
Bloomfield NJ 6-12-14-17-29-30-34-39-46
RCA Electronic Tube Div
415 S 5 St
Harrison NJ 5-6-7-9-11-13-14-19-29-21-22-23-27-30-32-34-40-41-42-45
Raytheon Mfg Co Ceramics Sales
Foundry Ave Waltham Mass 6
Raytheon Mfg Co
Microwave & Power Tube Operations
Foundry Ave
Waltham Mass 2-16-17-22-25-27-39
Raytheon Mfg Co
Receiving & Tube Semiconductor Oper
55 Chapel St
Newton 58 Mass 5-11-12-18-22-24-26-29-30-32-34-37-45
Resitron Labs Inc
200 Nebraska Ave
Santa Monica Calif 21-22-25-27-29-30-37-38-40-41-42-44-46
Signalite Inc
37 Neptune Hwy Neptune NJ 45
Skiatron Electronics & TV Corp
180 Varick St New York 14 NY 30
Sonotone Corp
P O Box 200
Elmford NY 18-24-30-32
Sperry Gyroscope Co Electronic Tube Div
Great Neck NY 16-21-30
Standard TV Tube Corp
700 Dryades St New Orleans 12 La 5-42-43
Star Porcelain Co
21 Muirhead Ave Trenton 9 NJ 6
State Labs Inc
649 Broadway
New York 12 NY 4-12-13-16-18-20
Stewart Eng'g Co
Box 277 Souil Calif 2
Stromberg-Carlson Div
General Dynamics Corp
1895 Hancock St San Diego 12 Calif 5
Stromberg-Carlson Div
General Dynamics Corp
100 Carlow Rd Rochester 3 NY 5
Stroblite Co
75 W 45 St New York 36 NY 44
Stupakoff Div Carborundum Co
Latrobe Pa 6
Super Electronics Corp
53 Worth St 11-12-13-14-15-16-17-18-19-20-21-22-23-24-25-26-27-28-29-30-31-32-33-34-35-37-38-39-40-41-42-43-44-45-46
Superior Steatite & Ceramic Corp
8391 W Forest St Englewood NJ 6
Sylvania Electric Products Inc
500 Evelyn Ave
Mountain View Calif 2-16-30-39
Sylvania Electric Products Inc
1740 Broadway 1-2-5-6-7-8-11-16-17-18-21-24-26-30-32-35-37-39-42-45

Televideo Corp of America	
3317 Exposition Pl	
Los Angeles 18 Calif	42-43
Thermal Refractories Corp	
4501 Lull Ave N Berzen NJ	6
Thermosem Inc	
375 Fairfield Ave	
Stamford Conn	18-19-26-45
Thomas Electronics Inc	
118 3 St Passaic NJ	5-42
Tracerlab Inc	
1601 Trappel Rd	
Waltham 54 Mass	8-10-12-16
Transitron Inc	
186 Granite St Manchester NH	25
Triplett & Barton	
881 N Lake St P O Box 3128	
Burbank Calif	40
Tuna-Sol Electric Inc	
95 8 Ave	
Newark 1 NJ	3-5-18-22-24-26-30-32-37-42
Ultra-Violet Products Inc	
5114 Walnut Grove Ave	
San Gabriel Calif	13-44
United Electronics Co	
42 Spring St	6-11-23-25-26-
Newark 4 NJ	27-30-34-37-38
Vacuum Tube Products Co	
3929 Shore St	
Oceanside Calif	5-11-21-25-30-31-38
Varian Associates	
511 Hansen Way Palo Alto Calif	2-10-32
Veeco Vacuum Corp	
86 Denton Ave New Hyde Park NY	21
Vietgreen Instrument Co	
5206 Booth Ave	8-8-10-11-12-13-
Cleveland 3 Ohio	18-30-52-45
Waterman Products Co	
3445 Emerald St Philadelphia 25 Pa	5
Welch Scientific Co W M	
1515 Sedwick St Chicago 10 Ill	21
Western Radiation Lab	
1197 W 24 St Los Angeles 7 Calif	10-12
Westinghouse Electric Corp	
P O Box 526 Bath NY	18-24-26
Westinghouse Electric Corp	1-5-7-9-11-14-17-18-
Box 284	21-22-24-25-26-27-
Elmira NY	29-30-34-37-41-42
White Electron Devices Inc Roger	
92 4 Ave	
Haskell NJ	2-11-13-15-30-33-35-39
Windsor Co	
999 N Main St Glen Ellyn Ill	5-15-31
Workman TV Inc	
309 Queen Anne Rd Teaneck NJ	30

98—TUBE PARTS

Adapters	1
Anodes, graphite	2
Anodes, metal	3
Base pins	4
Bases	5
Bellows	6
Bulbs	7
Button stems	8
Caps	9
Cathode ray, deflection plates ..	10
Cathode ray, electrodes	11
Cathode ray, electron guns	12
Cathodes	13
Cavities	14
Ceramic parts	15
Coatings, CRT	16
Cones, Metal	17
Faceplates, CRT	18
Focusing magnets	19
Fused quartz parts	20
Getters	21
Grid frames	22
Grids	23
Heat dissipators	24
Ion traps	25
Magnets, permanent	26
Masks, aperture	27
Masks, picture tube	28
Metal shells	29
Mica parts	30
Picture tube revitalizers	31
Plating, precious metal	32
Rare gases	33
Stamped parts	34
Supports	35
Tube seal leads	36
Tube shields	37
Tube sleeves	38
Water jackets	39
Wire parts	40

Air Reduction Sales Co Div Air Reduction Co	
150 E 42 St New York 17 NY	33
Alden Products Co	
12358 N Main St Brockton 64 Mass	1
American Brass Co	
414 Meadow St	
Waterbury 85 Conn	3-4-9-29-34-37
American Insulator Corp	
New Freedom Pa	27-28
American Lava Corp Subs Minn Mining & Mfg Cherokee Blvd & Mfrs Rd Chattanooga 5 Tenn	5-15-34-35-38
American Mica Insulation Co	
235 Parker Ave Manassas NJ	30
American Mica Radio Corp	
255 Parker Ave Manassas NJ	30
Amphenol Electronics Corp	
1830 S 54 Ave Chicago 50 Ill	57
Anton Machine Works	
1226 Flushing Ave	
Brooklyn 37 NY	3-6-10-11-14-17-24-29
Apex Electronics Inc	
180 8th St Passaic NJ	5-12-13
Art Wire & Stamping Co	
227 High St Newark 2 NJ	3-4-34-35-40
Ashville-Schoonmaker Mica Co	
900 Jefferson Ave Newport News Va	30
Associated Eng & Mfg Corp	
210 Stonehouse Rd	
Glen Ridge NJ	12-29-34-56-60
Atlantic & Pacific Wire & Cable Co	
112-61 Northern Blvd E Elmhurst LI NY	40
Atlas E-E Corp	
47 Prospect St Woburn Mass	37
Baker & Co	
113 Aster St Newark 2 NJ	32
Beal Chain Mfg Co	
110 Mountain Grove St	
Bridgetown 3 Conn	4
Belfab Corp	
11 Ramah Circle Agawam Mass	6
Belmont Smelting & Refining Works	
320 Belmont Ave Brooklyn 7 NY	3-13
Bigelow Mfg Corp	
225 W Hightow St Newark 8 NJ	35-36-40
Bircher Corp Industrial Div	
4571 Valley Blvd Los Angeles 32 Calif	57
Black Light Corp of America	
5114 Walnut Grove Ave	
San Gabriel Calif	20
Bomac Labs Inc	
Salem Rd Beverly Mass	14
Boonton Holding Corp	
326 Myrtle Ave Houton NJ	6
Bram Metallurgical-Chemical Div	
829 65 Ave	
Philadelphia 26 Pa	3-20-21-26-50-53-40
British Electronic Sales	
Oakland Gardens Flushing 64 NY	4-5
Brooklyn Paint & Varnish Co	
50 Jay St Brooklyn 1 NY	15
Burkbee Mears Co	
9th Flr Tont Bldg—4 & Rosabel St	
St Paul 1 Minn	25-27
Carborundum Co Global Div	
Hyde Park Blvd Niagara Falls NY	15
Carborundum Co Latrobe Plant	
Refractories Div Latrobe Pa	15
Ceramaseal Inc	
P O Box 25 New Lebanon Center NY	14
Ceramtronics Inc	
364 Highland Ave Passaic NJ	8-15-36
Cinch Mfg Corp	
1026 S Homan Ave Chicago 24 Ill	37
Cloven Ceramic Corp	
5711 Calhoun Ave Chattanooga 7 Tenn	15
Coll Winders Inc	
30 New York Ave New Cassel	
Westbury LI NY	19
Colber Corp	
26 Buffington St Irvington 11 NJ	15
Connector Corp	
6027 N Kewanna Ave Chicago 30 Ill	15-37-40
Continental-Diamond Fibre Corp	
Newark Del	30
Continental Electric Co Taylor Tubes Inc	
6 N Michigan Ave	23-32-34-35-36-40
Chicago 2 Ill	
Cook Electric Co	
2709 Southport Ave Chicago 14 Ill	13
Cooper & Son Joseph II	
25 W 47th St New York 36 NY	49
Coors Porcelain Co	
609 9th St Golden Colo	15
Corning Glass Works	
Corning NY	7-18-20
Croname Inc	
3701 Ravenswood Ave Chicago 18 Ill	27-29-34
Cruible Steel Co of America	
P O Box 2518 Pittsburgh 30 Penna	26
Dale Boisen Co	
2928 Nebraska Ave Santa Monica Calif	32
Dallons Labs	
5066 Santa Monica Blvd	
Los Angeles 29 Calif	20
Dares Industries Inc Gyro Dynamics Div	
2151 E Rosecrans Ave El Segundo Calif	6
Davis-K-Products Co	
135 W 29 St New York 1 NY	32
Diamonite Products Mfg Co	
1232 Cleveland Ave NW Canton Ohio	15
Division Lead Co	
7742 W 61 Pl Summit Ill	3
Du-Co Ceramics Co	
Box 278 Saxenburg Pa	15
Du Mont Labs Inc Allen B	
750 Bloomfield Ave	
Clifton NJ	5-8-10-11-12-37
Dunham-Bush Inc	
W Hartford Conn	24

Duramic Products Inc	
262 78 Mott St New York 12 NY	15
Eastern Smelting & Refining Corp	
109 W Brookline St Boston 18 Mass	3
Eby Co H H	
4700 Germantown Ave Philadelphia 44 Pa	37
Ely Sales Co	
130 Lafayette St New York 13 NY	1
Eloco Corp	
M St Below Erie Ave Phila 24 Pa	8
Electrical Refractories Co	
E Clark St E Palestine Ohio	15
Electrical Specialty Co	
158 11 St San Francisco 3 Calif	15
Ellis & Son George D	
4028 N American St Phila 10 Pa	37
Emerson Plastics Corp	
Seabury Ave & Butler Pl	
Irony 61 NY	6-27-28-30
Enflo Corp	
Fellowship Rd Route 73	
Made Shade NJ	5-6-38
Engelhard Ind Inc Amer Platinum & Silver	
Div 231 N J RR Ave Newark NJ	3
Engelhard Industries Inc	
113 Astor St Newark NJ	20
Engineering Co	
27 Wright St Newark 5 NJ	5-9-20-25-30-40
Krea Tool Die & Stamping Co	
19 Ash St Brooklyn 22 NY	34
Factory Enterprises Inc	
3431 Butler St Pittsburgh 1 Pa	31
Fantest Metallurgical Corp	
3290 Sheridan Rd N Chicago Ill	36
Felt Products Mfg Co	
7450 N McCormick Blvd Skokie Ill	34
Finn & Co T R	
200 Central Ave Hawthorne NJ	7
Ford Radio & Mfg Corp	
530 23 St Brooklyn 20 NY	30
Fort Wayne Metals Inc	
3211 MarArthur Dr Ft Wayne 6 Ind	40
Frenchtown Porcelain Co	
Frenchtown NJ	15
General Ceramics Corp	
Crows Mill Rd Kressley NJ	15
General Electric Receiving Tube Dept	
316 E 9 St Owensboro Ky	3-34
General Electric Co	
Lamp Leads & Bases Dept	
Nels Park Cleveland 12 Ohio	30
General Findings & Supply Co Industrial Div	
Leach & Garner Bldg	
Attleboro Mass	3-4-32-34-40
Glass-Stevens Corp	
29 Main St Belleville 9 NJ	25
Gout Co Fred	
314 Dean St Brooklyn 17 NY	19-23-25-37
Great Eastern Mfg Co	
163-165 Remson Ave Brooklyn 12 NY	31
Greene Corp G G	
Warren Pa	4-5-9-17-22-25-
	29-31-35-37-38-40
Gold Electronics Inc	
388 Broadway New York 13 NY	3-35
Handy & Harmon	
3625 Medford St Los Angeles 62 Calif	8
Harwood Electronics Co	
466 W Superior St Chicago 10 Ill	9
Hi Grade Alloy Corp	
1236 S Talman Chicago 8 Ill	8
Hobson Bros	
4940 W Lawrence Ave Chicago 30 Ill	9
Hoffman Electronics Corp	
3761 S Hill St Los Angeles 7 Calif	37
Hudson Tool & Die Co	
18 Mulvern St Newark 5 NJ	29
IE Mfg	
325 N Hoyne Ave Chicago 12 Ill	31-37
Insulating Fabricators Inc	
450 Union Ave E Rutherford NJ	30-34
Insuline Corp of America	
186 Granite St Manchester NH	5-9
International Electronic Research Corp	
145 W Magnolia Blvd Burbank Calif	37
Isolantite Mfg Corp	
Warner Ave Stirling NJ	5-15
Jetron Products	
Route 10 Hanover NJ	6
Johnson Co E F	
206 2 Ave SW Waseca Minn	37
Johnson & Hoffman Mfg Corp	
31 E 2 St	
Mineola NY	3-10-23-27-28-29-34-40
Jones Electronics Hiram	
2313 W Olive St Burbank Calif	15
J-V-M Eng'g Co	
4633 S Lavendale Ave Lyons Ill	14
Kelsey-Hayes Co	
3600 Military Ave Detroit 32 Mich	29-34
Kemet Co Div Union Carbide & Carbon Corp	
P O Box 6087 Cleveland 1 Ohio	21
Kimble Glass Co Sub Owens-Ill Glass Co	
P O Box 1035 Toledo 1 Ohio	7
Kine-Lab	
3250 Kenilworth Ave Berwyn Ill	12
Kirchberger & Co M	
83-91 W Forest Ave	
Englewood NJ	9-15
Kling Metal Spinning & Stamping Co	
245 Centre St New York 13 NY	17-29-34
Krautter Electric Machine Co	
360 Grove St Newark 3 NJ	23
Kultite Tungsten Co	
1040 Hoyt Ave Ridgefield NJ	25-36
Lancaster Glass Corp	
Lancaster Ohio	7
Lapp Insulator Radio Specialties Div	
318 Gilbert St Le Roy NY	35

Larson Electronic Glass P O Box 371 2426 El Camino Real Redwood City Calif			
Lifton Industries of Calif 336 N Foothill Rd Beverly Hills Calif	19		
Livingston Electronic Corp P O Box 3 Livingston NJ	24-27		
Mackay Inc A D 198 Broadway New York 28 NY	21-23		
Magnetic Metals Co Hayes Ave & 21 St Camden 1 NJ Magnetic Inc Box 391 Butler Pa	37		
Mahoney Teletronic Labs Inc 209 16 Ave Newark 3 NJ	16		
Maryland Lava Co Box 295 Belair Md	15		
Mel-Rain Corp 2100 E Fletcher Ave Indianapolis 3 Ind	23		
Merek & Co Inc Chemical Div Rahway NJ	16		
Metal Testite Corp 647 E First Ave Roselle NJ	23		
Motavac Inc 45-65 162 St Flushing 28 NY	36		
Methode Mfg Corp 7447 W Wilson Ave Chicago 31 Ill	37		
Metpro Inc R I 239 Toronto Ave Providence 3 RI	9-17-29-34-38		
Mica Fabricating Co 53 Central Ave Rochelle Park NJ	13-36-34-35		
Mica Insulator Co 797 Broadway Schenectady 1 NY	30		
Micraflex Products Inc 701 McCarter Hwy Newark 3 NJ	36		
Minerals & Insulation Co Rochelle Park NJ	36		
Minnesota Rubber & Gasket Co 3630 Woodlake Ave St Louis Park Minneapolis 6 Minn	6		
Mycalox Corp of America 67 Clifton Blvd Clifton NJ	2-30		
National Carbon Co Div Union Carbide & Carbon Corp 30 E 42 St New York 17 NY	2		
National Company Inc 61 Sherman St Malden 48 Mass	9-37		
Nema-Clark Inc 919 Jesuit-Ridge Dr Silver Spring Md	37		
Newcomb Spring Corp 177 E Hawthorne Ave Valley Stream NY	40		
New Jersey Zinc Co 169 Front St New York 38 NY	3		
New Process Metals Inc 45 Mfrs Pl Newark 3 NJ	21		
Nobel American Philips Co Elmet Div Lisbon Rd Weston Me	36-40		
Park Products Co 6900 Wade Park Ave Cleveland 3 Ohio	25		
Paul & Bookman 1801 W Courtland St Philadelphia 40 Pa	27-28-29-34-35-37-38		
Penna Fluorocarbon Co Inc 1115 N 38 St Phila 4 Penna	38		
Perfection Mfg Co 1322 N Elston Ave Chicago 22 Ill	35-37		
Permutite Mfg Co 444 Lake Shore Dr Chicago 11 Ill	5		
Pittsburgh Plate Glass Co 1 Gateway Center Pittsburgh 22 Pa	16-18		
Pix Mfg Co 73 Hudson St Newark 3 NJ	4-5-34-40		
Pomona Electronics Co 1126 W 5 Ave Pomona Calif	1		
Porcelain Products Inc 224 N Patterson St Carey Ohio	15		
Poray Inc 3361 W Grand Ave Chicago 51 Ill	28		
Pyramid Screen Corp 181 Harvard St Brookline 46 Boston Mass	23-27		
Raytheon Mfg Co Ceramic Sales Foundry Ave Waltham Mass	15-20		
Raytheon Mfg Co Microwave & Power Tube Operations Foundry Ave Waltham Mass	15		
Reliance Mica Co 341 39 St Brooklyn 32 NY	30		
Resitron Labs Inc 2908 Nebraska Ave Santa Monica Calif	15		
Robertshaw-Fulton Controls Co Fulton Sylphon Div P O Box 490 Knoxville 1 Tenn	6		
Rogers Corp Rogers Conn	5		
Romac Products Co 48-01 25 Ave Long Island City 3 NY	34		
Robbercraft Corp of Calif 1800 W 220 St Torrance Calif	6		
Saxonburg Ceramics Saxonsburg Pa Schroyer Mfg Corp 81 Poetsie Ave N Aslington NJ	24-27		
Seovill Mfg Co 99 Mill St Waterbury 20 Conn	29-34		
Shieldalloy Corp Newfield NJ	21		
Sinclair Mfg Co S Worcester St Chertley Mass	4		
Smith Inc Herman H 2326 National Ave Brooklyn 10 NY	37		
Southern Plastics Co 408 Pendleton SC	27-28-37-38		
Sperry Gyroscope Co Electronic Tube Div Great Neck NY			
Spoiercraft Inc 4122 W State St Milwaukee 8 Wis	17-29		
Stackpole Carbon Co St Marys Pa	2		
Staver Co 41-51 N Saxon Ave Bay Shore LI NY	9-22-23-24- 29-31-35-37		
Stewart Mfg Co D M Chattanooga Tenn	15-26		
Stupakoff Div Carborundum Co Latrobe Pa	15		
Suffolk Products Corp Washburn & Scudder Ave Northport NY	37		
Superior Electronics Corp 208 Piaget Ave Clifton NJ	12		
Superior Stentite & Ceramic Corp 83 91 W Forest St Englewood NJ	9-15		
Superior Tube Co 30 Eastern Ave New Britain Pa	11-27		
Sylvania Electric Products Inc Parts Div 12 2 Ave Warren Pa	3-4-5-9-10-13-15-25-29-30- 32-34-35-36-37-40		
Symphony Electronics Corp 925 S Western Ave Los Angeles 6 Calif	25		
Syncor Products Co 30 Eastern Ave Box 51 Malden 48 Mass	15-20		
Technical Oil Tool Corp 1057 N La Brea Los Angeles 38 Calif	14		
Technic Inc 39 Snow St Providence 3 RI	32		
Techniques Inc 22 Jackson Ave Harkensack NJ	3-16-23-27-34		
Telegraph Construction & Maintenance Co Ltd Mercury House Theobalds Rd London W C 1 England	17-34-36-37-40		
Telegraph Construction & Maintenance Co Ltd Mercury House Theobalds Rd London W C 1 England	37		
Telradco Eng'g Corp Shannon & Barrett Sts Wilkes-Barre Pa	19-25-29		
Thermal Refractories Corp 4591 Dell Ave N Bergen NJ	15-24		
Thor Ceramics Inc 225 Belleville Ave Bloomfield NJ	15		
Thibener & Co E H 67 Clifton St Hinghamton NY	40		
Trane Co Cameron & 2 St La Crosse Wis	24		
Ultra-Violet Products Inc 5114 Walnut Grove Ave San Gabriel Calif	29		
United Mineral & Chemical Corp 16 Hudson St New York 13 NY	9-13-15-36-34		
U S Plastic Molding Corp Carlton St Wallingford Conn	5		
U S Radium Corp Morristown NJ	16		
Vector Electronic Co 1199 Flower St Glendale 1 Calif	1-37		
Victory Mfg Corp 1722 W Arvada Pl Chicago 12 Ill	2		
Vocalite Screen Corp 39 Delevoise Ave Roosevelt NY	18		
Volkert Stampings Inc 222-34 96 Ave Queens Village 29 NY	3-23-27-34-35-37		
Vorse Co 147 Meadow Rd Rutherford NJ	19		
Waldom Electronics Inc 4625 W 53 St Chicago 32 Ill	28-37		
Waltham Screw Co 77 Rumford Ave Waltham 54 Mass	17		
Western Gold & Platinum Co 523 Harbor Blvd Belmont Calif	15		
Weymouth Instrument Co 1440 Commercial St E Weymouth 89 Mass	14		
Winder Aircraft Corp of Florida P O Box 2397 Drone Field Lakeland Fla	4-5-17-29-31-35		
Winlow Co 701 Lehigh Ave Union NJ	34		
Wisconsin Porcelain Co 121 Lincoln St Sun Prairie Wis	9		
Workman TV Inc 309 Queen Anne Rd Teaneck NJ	31		
99—TUNERS			
Tuners, AM	1		
Tuners, AM-FM	2		
Tuners, automatic	3		
Tuners, FM	4		
Tuners, klystron	5		
Tuners, microwave	6		
Tuners, permeability	7		
Tuners, television	8		
Tuners, UHF	9		
Tuning Heads	10		
Admiral Corp 3800 W Cortland St Chicago 47 Ill	8		
Aircorn Inc 354 Main St Winthrop Mass	5-10		
Aircorn Inc 139 E 1st St Roselle NJ	6		
Aircorn Inc 1108 W Elizabeth Ave Linden NJ	5-6-10		
Altec Lansing Corp 1515 Manchester Ave Anaheim Calif	1-2		
Amerac Inc 116 Topsfield Rd Wenham Mass	6		
American Mica Radio Corp 235 Parke Ave Manassas NJ	4		
American Microwave Corp 11754 Vase St N Hollywood Calif	8		
A R F Products Inc P O Box 57 Raviton NM	4		
Audicon Electronics Inc 216 Lyon St Paterson 4 NJ	1-2-3-4-5		
Barker & Williamson Inc Canal & Heever Sts Bristol Pa	7		
Bell Sound Systems 555 Marion Rd Columbus 7 Ohio	2		
Bogert Mfg Corp 315 Selgel St Brooklyn 6 NY	6		
Bogen-Presto Div Siegler Corp P O Box 500 Paramus NJ	1-2-1		
Browning Labs Inc 750 Main St Winchester Mass	1-2-4		
Calbest Electronics Co 1801 Exposition Blvd Los Angeles 16 Calif	2-4		
Cavitron Electron Oscillator Co Div Short Wave Plastic Forming 355 N Newport Blvd Newport Beach Calif	8		
CGS Laboratories Inc Routes 7 & 35 Ridgefield Conn	3-10		
Crescent Electronics Corp 94 Lincoln Ave Stamford Conn	1-2		
Croame Inc 3701 Ravenswood Ave Chicago 18 Ill	1		
Dalmo Victor Co Div Textron Inc 1515 Industrial Way Belmont Calif	6		
Daven Co Route 16 Livingston NJ	1-2-3-4-9-10		
Deannay-Bonardi Corp 780 S Arroyo Pkwy Pasadena Calif	8		
Denson Electronics Corp P O Box 122 Rockville Conn	4		
Dewald Radio Mfg Corp Div United Scientific Labs Inc 35-15 37th Ave Long Island 1 NY	2-4		
Diamond Antenna & Microwave Corp 7 North Ave Wakefield Mass	5-6-10		
Dunn Eng'g Associates 225 O'Brien Hwy Cambridge 29 Mass	6		
DX Radio Products Co 2300 W Armitage Ave Chicago 47 Ill	9		
Dynamic Electronics Inc 75-29 Woodhaven Blvd Forest Hills NY	2		
Electronic Communications Inc 1501 72 St St Petersburg Fla	3-4-9		
Electronics Int'l Co Inc 29 N Lee St Oklahoma City 2 Okla	4		
Electro-Voice Inc Cecil & Carol Sts Buchanan Mich	2		
Empire Product Sales Corp 37 Prospect St Amsterdam NY	1-5-6-10		
Engineering Associates 131 Patterson Rd Dayton 9 Ohio	6-8-10		
Ercorn Corp 551 Fifth Ave New York 17 NY	2-4		
Erie Resistor Corp 644 W 12 St Erie 6 Pa	2		
Fanon Electric Co 90 Berriman St Brooklyn 8 NY	1-2		
Ferratran Electronics Co 628 Broadway New York 12 NY	7		
Flaker Radio Corp 21-21 44 Dr Long Island City 1 NY	1-2-4		
Forbes & Wagner Inc 343 Central Ave Silver Creek NY	7-7		
Frequency Standards Inc P O Box 504 Asbury Park NJ	6		
F-R Machine Works Inc Electronic & X-Ray Div 24-12 Borough Pl Woodside 77 NY	5-6-10		
Gary Wells Co 361 Rockaway Ave Valley Stream NY	4		
General Instrument Corp 165 Front St Chicopee Mass	7-8-9-10		
General Instrument Corp F W Sickle Co 165 Front St Chicopee Mass	7-8-9-10		
Gencom RF Fittings Inc 792 Beacon St Boston 15 Mass	6		
Gombos Inc Co John 111 Montgomery Ave Irvington 11 NJ	6		
Genoco Products Inc 36-07 20 Ave Long Island City NY	2-4		
Granger Associates 966 Commercial St Palo Alto Calif	10		
Grigsby-Allison Co 407 N Salmon Ave Arlington Heights Ill	8		
Harman-Kardon Inc 520 Main St Westbury LI NY	2		
Hesth Co 305 Territorial Rd Benton Harbor Mich	1-2-4		
I-T-E Circuit Breaker Co Special Products Div 501 E Erie Ave Philadelphia 34 Pa	6		
J-V-M Eng'g Co 4633 S Lawndale Ave Lyons Ill	5-6-8		
Laboratory For Electronics Inc 78 Pitts St Boston 14 Mass	6		
Lisco Inc 3410 Oceanside Rd Oceanside NY	8		
Loral Electronics Corp 825 Bronx River Ave New York 72 NY	5-6-8		
Malloy & Co Inc P R 42 S Gray St Indianapolis 6 Ind	4-6-8-9-10		
Maxxon Corp W I 475 10 Ave New York 18 NY	5-6		
Microlab Okerer Pkwy Livingston NJ	5-6-9		
Microtech Inc 2975 State St Hamden 17 Conn	6		
Microwave Associates Inc Burlington Mass	6		
Miller Co J W 5917 S Main St Los Angeles 3 Calif	1-4		
Narda Microwave Corp 118-160 Herricks Rd Mineola NY	6-9		

Nevada Air Products Co	
P O Box 2472 Reno Nev	3
Newcomb Audio Products Co	
8824 Lexington Ave Hollywood 38 Calif	2
Oak Mfg Co	
1260 N Clybourn Ave Chicago 10 Ill	7-8-9
Pedersen Electronics	
3667A Mt Diablo Blvd Lafayette Calif	1-2-4
Philco Corp	
Tioga & C Sta	
Philadelphia 24 Pa	1-2-6-8-9
Philco Corp Gust Industrial Div	
4700 Wissahickon Ave	
Philadelphia 44 Pa	4-5-6-8
Pilot Radio Corp	
37-06 36 St Long Island City 1 NY	2-4
Polarad Electronics Corp	
43-20 34 St	
Long Island City 1 NY	3-5-6-9-10
Pratt Albert	
114 W Lake View Ave Milwaukee 17 Wis	6
Precision Electronics Inc	
9101 King St Franklin Pk Ill	2
Precision Radiation Instruments Inc	
Radio Craftsman Div	
9025 W Jefferson Blvd	
Los Angeles Calif	1-2-4
Radio Condenser Co	
Davis & Copewood Sts	
Camden 3 NJ	1-2-4-7-10
Radio Corp of America	
Commercial Electronic Products	
Front & Cooper Sts Camden NJ	2
Radio Eng'g Labs	
29-01 Borden Ave	
Long Island City 1 NY	5-6
Rauland-Borg Corp	
3535 W Addison St Chicago 18 Ill	2-4
Rhein Sound Systems Inc	
133 Hamden St New Haven 5 Conn	1-4
Save Labs Inc	
159 Linden St Wellesley 81 Mass	8
Saratoga Industries	
Congress & Ballston Aves	
Saratoga Springs NY	1-2-4
Sargent-Raymont Co	
4926 E 12 St Oakland 1 Calif	2
Scott Inc H H	
885 Putnam Ave Cambridge 39 Mass	2-4
Sherwood Electronic Labs Inc	
2802 W Gullom Ave Chicago 18 Ill	2-4
Simpson Mfg Co Mark	
32-28 49 St Long Island City 3 NY	2
Specialty Eng'g & Electronics Co	
79 Clifton Pl Brooklyn 38 NY	9
Sperry Gyroscope Co	
Microwave Electronics Div	
Great Neck NY	6
Standard Coil Products Co	
2085 N Hawthorne Ave	
Melrose Park Ill	4-7-8-9
Standard Electronics Div Radio Eng'g Labs	
30 & Borden Sts Long Island City NY	4-9
Stromberg-Carlson	
Div General Dynamics Corp	
100 Carlson Rd Rochester 8 NY	2
Taffet Radio & TV Co	
27-05 Brooklyn-Queens Expressway W	
Woodside 7 NY	1-2-4
Tarzian Inc Sarkes	
415 N College Ave Bloomington Ind	5-9
Tech-Master Corp	
75 Front St Brooklyn 1 NY	1-2-8
Technical Oil Tool Corp	
1057 N L Brea Los Angeles 38 Calif	6-10
Technicraft Labs Inc	
Thomaston-Waterbury Rd	
Thomaston Conn	6
Techtron Electronics Ltd	
129 Park Ave Park Crest NJ	1-2-4
Telectro Industries Corp	
35-18 37 St Long Island City 1 NY	3-6-10
Telematic Industries Inc	
16 Howard Ave Brooklyn 7 NY	1-2-9
Telerad Mfg Corp	
Route 69 Flemington NJ	5-6
Telerad Mfg Corp	
1440 Broadway New York 18 NY	5-6
Trans-Tel Corp	
910 N Orange Dr Los Angeles 38 Calif	2-4
Trutone Electronics Inc	
6912 Santa Monica Blvd	
Los Angeles 38 Calif	1-2-4
Uniwave Inc	
109 Marine St Farmingdale NY	6
Valandy Electronics Corp	
61-35 166 St Flushing 68 NY	1
Vectron Inc	
1611 Trapelo Rd Waltham 54 Mass	5-6
Victor RF & Microwave Co	
36 W Water St Wakefield Mass	5-6
Virginia Electronics Co	
River Rd & B & O RR	
Washington 16 DC	1-10
Warren Mfg Co	
Newtown Rd Littleton Mass	6
Waveline Inc	
P O Box 718 Caldwell NJ	6
Wells-Gardner & Co	
2701 N Kildare Ave Chicago 39 Ill	2
Westinghouse Electric Corp	
P O Box 865 Pittsburgh 30 Pa	6
Weymouth Instrument Co	
1440 Commercial St E Weymouth 89 Mass	6
Whitewater Electronics Inc	
136 Main St Whitewater Wis	4
Whitley Electronics Inc	
811 S Chauncey St Columbia City Ind	2
Young Sprig & Wire Co Gannett Div	
801 S Main St Burbank Calif	1-4-9

100—ULTRASONICS

Amplifiers	3
Cleaning Equipment	4
Generators	2
Machining Equipment	6
Metal-Joining Equipment	5
Transducers	1

Acoustica Associates	
26 Windsor Ave Mineola NY	1-2-3-4-5-6
Aerophysics Dev Corp Sub Curtiss-Wright	
Corp P O Box 689	
Santa Barbara Calif	1-4
Alear Instruments Inc	
17 Industrial Ave Little Ferry NJ	1-2-3-4-5-6
American Time Products Inc	
580 5 Ave New York 36 NY	4
Arenberg Ultrasonic Laboratory	
94 Green St Jamaica Plain 30 Mass	2-3
Atlantic Research Corp	
801 N Columbus St Alexandria Va	1
Atomic Accessories Inc	
244-02 Jamaica Ave Bellerose 26 NY	4
Audicon Electronics Inc	
216 Lyon St Paterson 4 NJ	3-4
Automation Instruments Inc	
Industrial Pk Boulder Colo	1-2-3
Bendix Aviation Corp Pacific Div	
11600 Sherman Way N Hollywood Calif	1-4
Bendix Aviation Corp Pioneer-Central Div	
2734 Hickory Grove Rd	
Davenport Iowa	1-2-3-4
Bendix Aviation Corp	
1104 Fisher Bldg Detroit 2 Mich	1-2-4-6
Birtcher Corp Industrial Div	
4371 Valley Blvd Los Angeles 32 Calif	4
Blackstone Corp	
1111 Allen St Jamestown NY	1-2-3-4
Bibley Electric Co	
Union Sta Bldg Erie Pa	1
Bogue Electric Mfg Co	
52 Iowa Ave Paterson 3 NJ	2
Branson Instruments Inc	
Branson Ultrasonic Corp	
37 Brown House Rd Stamford Conn	1-2-4
Canadian Curtiss-Wright Ltd	
1900 Sherbrooke St	
W Montreal Que Canada	3-4
Chesapeake Instrument Corp	
Shadyside Md	1-2-3-4
Cooper Co D C	
1467 S Michigan Ave Chicago 5 Ill	4
Corbett Science Labs F W	
3117 Venice Blvd	
Los Angeles 19 Calif	1-2-3-4
Crescent Eng'g & Research Co	
5440 N Peck Rd El Monte Calif	1
Designers for Industry	
4241 Fulton Pkwy Cleveland 9 Ohio	1-2-3
D & R Ltd	
402 E Gutierrez St Santa Barbara Calif	2
Dukane Corp	
St Charles Ill	1-2-3
Dyna-Empire Inc	
1075 Stewart Ave Garden City LI NY	1
Eric Resistor Corp	
644 W 12 St Erie 6 Pa	1
Freed Transformer Co	
1718-36 Weirfield St Brooklyn 27 NY	2-3
General Kinetics Inc	
555 23 St S Arlington 2 Va	4
General Ultrasonics Co	
67 Mulberry St Hartford 3 Conn	1-2-4
Good Electronics Corp	
17-19 Brooks St Newton 58 Mass	2
Gulton Industries Inc	
212 Durham Ave Metuchen NJ	1-2-4-5-6
Haller Raymond & Brown	
Circleville Rd State College Pa	1
Harris Transducer Corp	
Box 247 Woodbury Conn	1-2-4
Hupp Electronics Co Div Hupp Corp	
265 E Pomfret St Carlisle Pa	1
International Electronics Corp	
81 Spring St	
New York 12 NY	1-2-3-4-5-6
Kahn & Co	
541 Windsor St Hartford 1 Conn	2
Kistler Instrument Corp	
15 Webster St N Tunawanda NY	1
Laboratory For Electronics Inc	
75 Pitts St Boston 14 Mass	1
McKenna Laboratories	
2508 Main St Santa Monica Calif	1-2
Mack Electronics Div Inc	
1000 S 2 St Plainfield NJ	1-2-3-4-5
Massa Laboratories Inc	
5 Foutler Rd Hingham Mass	1-2-4
Medcraft Electronic Corp	
426 Great East Neck Rd Babylon NY	1-2
M F Electronics Co	
122 E 25 St New York 10 NY	3
Minn-Honeywell Regulator Co	
Ordinance Div 600 2 St N Hopkins Minn	1-4
Moore Corp John B	
P O Box 3 Dept E1 Peerless Bldg	
Nutley 10 NJ	1-2-4
Northern Eng'g Labs	
372 Wilmut Ave Burlington Wis	1
Nuclear-Electronics Corp	
2632 W Cumberland St	
Philadelphia 32 Pa	2-3
Phillips Mfg Co	
3475 W Touhy Ave Chicago 45 Ill	1-2-4

Piezo Products Co	
Whitney St Sherburn Mass	2-4
Power Supplies Inc	
1005 Olive St Highland Ill	2-3
Precision Crystal Lab	
2223 Warwick Ave Santa Monica Calif	1
Pye Canada Ltd	
92 Northline Rd Toronto 16 Ont Can	2
RCA Electron Tube Div	
415 S 5 St Harrison NJ	1
Raytheon Mfg Co	
100 River St Waltham 54 Mass	2-6
Seithe Mfg Co	
2284 Babylon Tpke Merrick NY	4
Sheffield Corp	
Box #93 Dayton 1 Ohio	6
Solar Mfg Corp	
4553 Seville Ave Los Angeles 58 Calif	1
Sprague Electric Co	
Marshall St North Adams Mass	1
Statham Labs Inc	
12401 W Olympic Blvd	
Los Angeles 64 Calif	1
Telectro Industries Corp	
35-18 37 St Long Island City 1 NY	2-3
Telephonics Corp	
Park Ave Huntington LI NY	1-2-3-4
Topper Mfg Co Inc	
147-12 Liberty Ave	
Jamaica 35 NY	1-2-3-4-5-6
Ultrasonic Eng'g Co	
1613 S 3 Ave Maywood Ill	2-4
Valpey Crystal Corp	
1244 Highland St Holliston Mass	1
Virginia Electronics Co	
River Rd & B & O RR Washington 16 DC	3
Waveforms Inc	
333 6 Ave New York 14 NY	2
Wells-Gardner & Co	
1741 N Kilbuck Ave Chicago 39 Ill	2-3
Westinghouse Electric Corp	
Industrial Electronic Dept	
2519 Wilkena Ave Baltimore Md	2-3
Worcester Pressed Aluminum Co	
13-15 Hope St Worcester 3 Mass	16

101—WIRE & CABLE

Bus bar	1
Cable, antenna transmission, receiving	2
Cable, antenna transmission, transmitting	3
Cable, assemblies	4
Cable, coaxial	5
Cable, delay	6
Cable, flat woven	7
Cable, ignition	8
Cable, insulated	9
Cable, low capacitance	10
Cable, microphone	11
Cable, shielded	12
Cable, solid dielectric	13
Cable, telephone	14
Cable, UHF	15
Clamps, cable	16
Cords, attachment	17
Cords, resistance	18
Test Leads	19
Transmission line	20
Wire, aluminum	21
Wire, asbestos insulated	22
Wire, beryllium copper	23
Wire, cat whiskers for transistors	24
Wire, ceramic insulated	25
Wire cloth	26
Wire, copper, bare	27
Wire, copper clad	28
Wire, copper, insulated	29
Wire, cut & stripped	30
Wire, enameled	31
Wire filament	32
Wire, forms	33
Wire, glass insulated	34
Wire, gold plated	35
Wire, guy	36
Wire, harnesses	37
Wire, high voltage	38
Wire, hookup	39
Wire, litz	40
Wire, magnet	41
Wire, magnetic recording	42
Wire, marking	43
Wire, metal plated	44
Wire, metal shielded	45
Wire, molybdenum	46
Wire, monel	47
Wire, nickel-clad copper	48
Wire, phosphor bronze	49

Wire, plastic insulated	50
Wire, platinum	51
Wire, reals	52
Wire, resistance	53
Wire, shielded	54
Wire, silicon bronze	55
Wire, silver plated	56
Wire, stainless steel	57
Wire, steel	58
Wire, tantalum	59
Wire, teflon insulated	60
Wire, thermocouple	61
Wire, titanium	62
Wire, tungsten	63
Wire, zirconium	64

Abalon Precision Mfg Corp	
540 Casanova St New York 59 NY	16
Accurate Insulated Wire Corp	
25 Fox St	4-5-8-9-11-12-17-22-29
New Haven 1 Conn	30-34-38-39-50-54
Ackerman-Gould Co	
92 Bleeker St New York 12 NY	43
Acme Wire Co	
1255 Dixwell Ave	
New Haven 14 Conn	29-31-34-41
Actioncraft Products	
2 Yennicoek Ave	
Port Washington NY	43
Aerol Precision Products	
Div General Metals Corp	
1444 Washington Ave Huntingdon 4 Va	16
Advanced Electronics Inc	
84 Silas Deane Hwy Rocky Hill 9 Conn	4
Aerulite Electronics Corp	
2207 Summit Ave Union City NJ	4-16-19
Aerophytes Dev Corp Sub Curtis-Wright Corp	
P O Box 669 Santa Barbara Calif	13-42
Aero Research Instrument Co	
315 N Aberdeen St Chicago 7 Ill	61
Airborne Electronics Co	
6913 Treston Ave N Hollywood Calif	4
Aircraft & Electronic Specialties	
22 S Green St Brownburg Ind	4-7
Airlyte Electronics Co	
535 Avenue A Bayonne NJ	4
Airtron Inc	
1108 W Elizabeth Ave	
Linden NJ	2-3-4-5-8-9-12
A-K Mfg Co	
115 S Northwest Hwy	4-9-11-12-17-18-19
Harrington Ill	29-30-34-37-38-39-45-50-54
Alden Products Co	
12358 N Main St	
Brockton 64 Mass	4-17-19-30-37-45
Allegheny Ludlum Steel Corp	
Oliver Bldg Pittsburgh 22 Pa	57-58
Allied Alloys Co	
141 River Rd Nutley 10 NJ	4
All-State Welding Alloys Co	
249 Ferris Ave White Plains NY	21
Alphaduct Wire & Cable Co	
25 Van Dyke Ave	
New Brunswick NJ	29-34-39-50
Alpha Metals Inc	
36 Water St Jersey City 4 NJ	33
Alpha Wire Corp	
1-2-3-4-5-7-9-10-11-12	
200 Varick St	14-15-19-27-29-30-37-38-39
New York 14 NY	41-43-45-50-54-55-56-60
Aluminum Co of America	
1501 Alcoa Bldg Pittsburgh 19 Pa	1-16-21
American Brass Co	
414 Meadway St	
Waterbury RR Conn	1-27-49-55
American Electric Cable Co	
181 Appleton St 1-2-3-4-5-7-8-9-10-11-12-14-15	
Holyoke Mass	18-19-20-27-29-29-30-34-37-38-39-50-54-56-60-61
American Leonic Mfg Co	
3001 Walnut St	21-26-35-44-47
Phila 4 Pa	63-66-57-58
American Microwave Corp	
11754 Vose St N Hollywood Calif	4
American Platinum Works	
231 NJ RR Ave Newark 5 NJ	51
American Super-Temperatures Wires Inc	
West Canal St 5-8-9-10-12-13-15-29-31-34	
Winoski Vt	38-39-41-50-54-60
Amperez Electronic Corp	
6-8-10-11-12-14	
230 Duffy Ave	16-17-18-20-22-24-25-26-27
Hicksville LI NY	30-81-32-34-37-38-45-46
Amphenol Electronics Corp	
1830 S 54 Ave	4-5-9-10-11-12-13-15-16
Chicago 50 Ill	20-37-39-50-54-60
Anacunda Co	
25 Broadway	2-3-5-8-9-10-12-14-16-20-21
New York 4 NY	27-29-31-34-38-39-41-50-54
Anchor Metal Co	
966 Meeker Ave Brooklyn 22 NY	21-35-56
Anchor Specialty Mfg Co	
300 Hollister Rd Teterboro NJ	4-37
Andrew Antenna Corp	
606 Heech St	
Whitby Ontario Can	3-4-5-15-20
Andrew California Corp	
841 E Maryland Ave	
Claremont Calif	2-3-4-5-15-16-20
Andrew Corp	
363 E 75 St Chicago 19 Ill	2-3-4-5-15-16-20
Ansonia Wire & Cable Co	
111 Martin St Ashton RI	5-9-14-29-39-50-54
Anex Wire & Cable Corp	
237 37 St Brooklyn 32 NY	4-30-39-50

Armco Steel Corp	
703 Curtis St Middletown Ohio	57
Artes Eng'g Co	
2757 S 28 St Milwaukee 46 Wis	4
Arcu Wire & Cable Co	
2 Burroughs St Bridgeport 8 Conn	29-31-41
Associated American Div S & G Inc	
750 St Anns Ave	
New York 56 NY	48-51-52-54-57-58-60
Associated Eng'g Corp	
65 Kent St Brookline 46 Mass	17-19
Associated Eng'g & Mfg Corp	
210 Stonehouse Rd	28-32-46-48-58
Glen Ridge NJ	59-62-63-64
Atlantic & Pacific Wire & Cable Co	
112-01 Northern Blvd	21-22-23-24-25-27-28
E Elmhurst	29-30-31-32-33-34-35-36-37-38
LI	39-40-41-42-43-44-45-46-47-48-49-50-51
NY	52-53-54-55-56-57-58-59-60-61-62-63-64
Atlas E-E Corp	
47 Prospect St Woburn Mass	16
Audicon Electronics Inc	
216 Lyon St Paterson 4 NJ	4-17
Automatic Metal Products Corp	
323 Berry St Brooklyn 11 NY	4
Avnet Electronic Supply Co	
36 N Moore St New York 13 NY	5
Barber-Colman Corp	
1300 Rock St Rockford Ill	61
Harker Sales Co	
996 Edgewater Ave	2-3-4-5-9-10-12-13-14
Ridgefield NJ	15-29-31-36-41-50-54-60
Beam Instruments Corp	
350 5th Ave	
New York 1 NY	2-3-5-9-10-11-12-14-15-22
Helden Mfg Co	
1-2-3-4-5-6-7-8-9-10-11-12	
415 S Kilpatrick	13-14-15-17-19-20-21-22
Chicago 44 Ill	28-29-30-31-34-37-38-39-40
	41-49-50-54-56-57-60
Bendix Aviation Corp Scintilla Div	
Delaware Ave Sidney NY	8
Bendix Aviation Corp Cincinnati Div	
3120 Wauson Rd Cincinnati 8 Ohio	4
Bergen Wire Rope Co	
456 Gregg St Lodi NJ	4-63
Bernco Engineering Corp	
2320 S Tibbs Ave Indianapolis 41 Ind	4
Bethlehem Steel Co	
Bethlehem Pa	58
Biom Labs Inc	
17 W 60 St	
New York 23 NY	46-47-51-57-59-62-63-64
Birnback Radio Co	
1-2-3-4-5-7-8-9-10-11-12	
145 Hudson St	13-14-15-16-17-18-19-20-21
New York 13	27-28-29-30-31-32-34-36-37
NY	38-39-41-45-49-50-54-55-60
Blaco Mfg Co	
6541 Euclid Ave Cleveland 3 Ohio	16
Bliss Electronic Corp	
Box 366 Sussex NJ	4-37
H & M Electric Corp	
*38 4 Ave Brooklyn 32 NY	17-29-30
Boston Insulated Wire & Cable Co	
65 Hay St	
Dorchester Mass	3-5-7-8-9-10-12-13-28-32
Bram Metallurgical-Chemical Div	
21-23-24	
*20 65 Ave	17-28-29-31-32-35-41-44-45-46
Philadelphia 26	47-48-49-51-53-54-55-56
Pa	57-58-59-60-61-62-63-64
Brand & Co William	
41 North St	2-3-4-5-9-10-11-12
Willimantico Conn	12-13-15-20-29-30-34-37
Bridgeport Brass Co	
30 Grand St	38-39-43-45-50-54
Bridgeport 2 Conn	1-21-27-40-55
Bristol Co	
P O Box 1790 El Waterbury Conn	61
Buffalo Electronics Corp	
37 Franklin St Buffalo 2 NY	37
B-W Mfgs Inc Phillips Radio Div	
721 N Webster St Kokomo Ind	33-36-44-58
Cable Electric Products	
234 Daboll St Providence 7 RI	16-17-18-19
Cable Specialists of Conn	
96 Kitts Lane Newington 11 Conn	4-37
Cable & Wire Products Co	
Chicago Rd Swanton Ohio	17-37
Calson Mfg Co	
2-3-4-5-8-9-10-11-12	
100 Oakland Ave	13-14-15-16-20-27-29
Washington Pa	30-37-38-39-50-58
Cal-Connector Co	
7360 Varna Ave N Hollywood Calif	16
Carborundum Metals Div Carborundum Co	
P O Box 32 Akron NY	64
Carpenter Steel Co	
Webb Wire Div 17 Liberty St	
New Brunswick NJ	57
Channel Master Corp	
Ellenville NY	2-15-20-36
Chase Brass & Copper Co	
236 Grand St	1-14-26-27-29-31
Waterbury 20 Conn	34-49-50-55-57
Chester Cable Corp	
1000 Top St	2-3-9-11-12-13-14-15-27
Chester NY	29-38-39-45-50-54-60
Chicago Industrial Instrument Co	
865 N Sangamon St Chicago 22 Ill	19
Circuit Instruments Inc	
2801 Anvil St N St Petersburg 1 Fla	4-37
Clegh Lab Div Clegg Inc	
Ridgedale Ave Morristown NJ	4
Coxial Connector Co	
37 N 2 Ave Mt Vernon NY	4
Cohn Corp Sigmund	
121 S Columbus Ave	21-24-29-31
Mount Vernon NY	32-35-51-61
Culls Electronic Co	
2939-49 N 2 St Phila 33 Penna	4-19
Coleman Cable & Wire Co	
2-3-5-8-9-10	

3919 Wesley Terr	11-12-14-15-21-22-27-28
Schiller Park	29-31-34-36-38-39-40
Ill	41-50-53-54-60
Columbia Wire & Supply Co	
2850 Irving Park Rd	1-2-3-4-5-7-8
Chicago 18	9-10-11-12-13-14-15
Ill	34-36-37-38-39-41-50-54-60
Commercial Radio Sound Corp	
652 1 Ave New York 16 NY	12
Component Mfg Service Inc	
1 Component Pk W	
Bridgewater Mass	4-17-19-37
Consolidated Productions Inc	
Brownand Int'l Airport	
Pt Lauderdale Fla	4-37
Consolidated Wire & Associated Cos	
1635 S Clinton St	1-2-3-4-5-7-8-9-10-11-12
Chicago 16	13-14-15-17-18-19-20-22-23-27-28
Ill	29-30-31-34-37-38-39-41-45-47-48-49
	50-53-54-55-56-60
Continental Wire Corp	
5-0-11-12-13-22-29	
Wallingford Conn	34-38-39-45-50
Cooper & Son Joseph B	
25 W 47th St New York 36 NY	26-51
Copperweld Steel Co Wire & Cable Div	
Glassport Pa	2-3-4-5-9-14-27-28-36-39-54
Cordia Limited Div Essex Wire Corp	
121 Dodge Ave Dekalb Ill	4-17
Cornish Wire Co	
50 Church St	2-4-9-11-12-15-17-29
New York 7 NY	30-34-37-39-50-54
Crecent Co	
20 Central Ave Pawtucket RI	4-8-9-20
Crecent Insulated Wire & Cable Co	
321 N Olden Ave	
Trenton 5 NJ	9-21-27-29-50
Crucible Steel Co of America	
P O Box 2518	
Pittsburgh 30 Penna	41-47-53-57-58-62
Dakota Eng'g Inc	
6644 Crenshaw Blvd Los Angeles 43 Calif	16
Dale Products Inc	
P O Box 136 Columbus Nebr	4
Decatur Electronic Industries Corp	
203 Orinoco Dr Brightwaters LI NY	4-37
Defiance Eng'g & Microwave Corp	
Heverly Airport Beverly Mass	4
Dielectric Materials Co	
5315-17 N Ravenswood Ave	5-9-10-11-12
Chicago 40 Ill	13-29-38-39-43-45-50-54
Dielectric Products Eng'g Co	
Raymond Me	20
Dittmore-Freimuth Corp	
2617 E Norwich St Milwaukee 7 Wis	4
Donserf Mfg Corp	
249 Huron St Brooklyn 62 NY	16
Douglas Ruesch Cable Div Hall-Scott Inc	
2950 N Ontario St Burbank Calif	7-9-10-12-37
D & M Products	
13144 W McNichols Rd Detroit 35 Mich	37
Driver Co Wilbur H	
1875 McCarter Hwy	18-22-29-31-34-35-47
Newark 4 NJ	51-53-56-57-59-61-62
Driver-Harris Co	
Harrison NJ	31-34-47-53-57-61
Duramark Inc	
P O Box 231 Port Washington NY	43
Dynamic Electronics Inc	
73-29 Woodhaven Blvd Forest Hills NY	4-17
Earle Electric Mfg Co	
23-10 Bridge Plaza	
Long Island City 1 NY	29-50
Eagle Electronics Corp	
P O Box 775 Meriden Conn	4-37
Eastern Smelting & Refining Corp	
108 W Brookline St Boston 18 Mass	35-51-56
Eastern Tool & Mfg Co	
1 Montgomery St Belleville 9 NJ	33
Eisler Eng'g Co	
750 S 13 St Newark 3 NJ	46-63
Electrical & Physical Instrument Corp	
42-19 27 St Long Island City 1 NY	5
Electrical Specialty Co	
158 11 St	
San Francisco 8 Calif	9-22-31-34-39-41-43
Electric Auto-Lite Co	
Wire & Cable Div	8-9-12-21-27-29-30-31-31
Port Huron Mich	37-39-41-50-54-56-60
Electric Auto-Lite Co	
Champlain St	
Toledo Ohio	4-9-12-27-28-29-30
31-34-37-39-41-50-52	
Electri-Wire Assemblies	
700 W Virginia	8-17-18-19-22
Milwaukee 4 Wis	27-29-30-37
Electro-Etch Circuits Inc	
3140 W Florence Ave	
Los Angeles 43 Calif	36-44
Electronic Designs Inc	
28 School St Yonkers NY	19
Electronic Production & Development	
188 Nevada St El Segundo Calif	4
Electronics Inc	
39 York Rd Willow Grove Pa	4-19-30-37
Electronic Tube Coil Co	
274 N Day St Orange NJ	25-32-63
Electro-Physics Labs	
2065 Huntington Dr San Marino Calif	5
Elgin National Watch Co	
107 National St Elgin Ill	61
Empire Electronics Co	
165 River St Paterson 1 NJ	4-17-19-37
Enflo Corp	
Fellowship Rd Route 73	
Maple Shade NJ	50-60
Engelhard Ind Inc Amer Platinum & Silver Div	
231 N J RR Ave Newark NJ	51
Engelhard Industries Inc	
113 Astar St Newark NJ	51-61

Engineering Co 27 Wright St Newark 5 NJ 35-16-46-48-63	Houlihan Co T J 2508 W Lawrence Ave Chicago 25 Ill 4-27	Modern Adhesives & Electronics Inc 148 Greene St New York 12 NY 25-41
Ericson Mfg Co 1660 Hayden Ave Cleveland 12 Ohio 37	Hubbell Inc Harvey State St & Bostwick Ave Bridgeport 2 Conn 19	Mohr Wire Co 59 39 Review Ave Long Island City 3 NY 21-27-36-50
Eric Resistor Corp 644 W 12 St Erie 6 Pa 37	Hudson Wire Co Winsted Div 941 Main St Winsted Conn 26-27-29-31-60-11	Mohawk Wire & Cable Corp 320 River St Fitchburg Mass 29-30-39-45-50-54
Essex Wire Corp 1601 Wall St 2-3-4-8-9-11-12-14-17-18-21-27	IDEAS INC 211 Jinnison Ave Laramie Wyo 17	Moore Co Howard J 282 Williams St New York NY 43
Exacto Industries Inc Wayne 6 Ind 29-30-31-37-38-39-41-60	IE Mfg 325 N Hoynes Ave Chicago 12 Ill 2-38	Morzy Corp 2014 N Major Ave Chicago 39 Ill 4
730 Santa Monica Blvd Los Angeles 46 Calif 16	Illumitronic Eng's Co 680 E Taylor Ave Sunnyvale Calif 2-37	Mutual Electronic Industries Corp 85 Beechwood Ave New Rochelle NY 5-16-11-12-14-15-17-19-34
Factory Enterprises Inc 3421 Butler St Pittsburgh 1 Pa 26	Indiana Steel & Wire Co 790 S Council St Muncie Ind 36-57-58	National Aircraft Corp 241 Tulare Ave Burbank Calif 1
Fairbanks Wire Co 2287 Hollers Ave New York 40 NY 40-41-50-60	Industrial Accessories Inc Line Rd Matawan NJ 5-8-39-54	National-Standard Co Niles Michigan 26-28-42-44-47-57-58-62
Fansteel Metallurgical Corp 2290 Sheridan Rd N Chicago Ill 46-59-63	Inso Products Ltd 404 Fifth Ave New York 18 NY 12-38-39-41-60	National-Standard Co 555 Lincoln Ave Secaucus NJ 26-44-57-58
Federal Cable Div Royal Electric Corp 95 Grand Ave Pawtucket RI 22-29-30-39-50-54-60	Instruments Inc 122 N Madison St Tulsa Okla 5-10	National Tel-Tronics Corp 52 St Custum Ave Yonkers NY 19
Federal Mfg & Eng's Corp 1055 Stewart Ave Garden City NY 4	Insulation & Wires Inc 1534 Swann Ave Ft Wayne Ind 27-29-31-39-60	Neosil Alloy Products Co 282 Hudson St Newark NJ 48-49-51-53-55-56-57-58
First Electronics Corp 117 Blue Hill Ave Boston 19 Mass 4-7-19-39-37	Insuline Corp of America 186 Granite St Manchester NH 4	Newark Wire Cloth Co 351 Verona Ave Newark 4 NJ 26
Firth Sterling Inc 3113 Forbes St Pittsburgh 13 Pa 57-58-62-64	International Nickel Co 67 Wall St New York 5 NY 47	Newcomb Spring Corp 177 E Hawthorne Ave Valley Stream NY 24-37
Fisher Co R H 48 Gough St San Francisco 3 Calif 37	International Telemeter Corp 2900 Stanger Ave Los Angeles 25 Calif 12-13-15	New England Cable Co 22 Bridge St Concord NH 29-30
Foot Mineral Co 18 W Chelton Ave Phila 41 Pa 64	Janco Corp 3111 Winona Ave Burbank Calif 1-4	New England Electrical Works 365 Main St Lisbon NH 1-7-27-29-31-39-40-41-61
Fort Wayne Metals Inc 3211 MacArthur Dr Plymouth Ct Ind 42-43-47-49-55-57	Jefferson Electronic Products Corp 322 State St Santa Barbara Calif 4-37	Newman Co M M 79 Clifton Ave Marblehead Mass 37
Frederick Tool & Eng's Corp 414 Pine Ave Frederick Md 4	Jefferson Products Corp Pleasant Valley Rd 2-3-5-9-10-11-12-13-14	New P O Box 999 Hartford 1 Conn 1-31-35-51-52
Gates Radio Co 123 Hampshire St Quincy Ill 1	Jelliff Mfg Corp C O Pequot Rd Southport Conn 47-52	Nichols Wire & Aluminum Co 1725 Rockingham Rd Davenport Iowa 21-36
Gavitt Wire & Cable Co Central St Brookfield Mass 29-45-50-54-60-61	Jersey Specialty Co Hurress Pl Mountaintown NJ 3-9-20-29	Noel Mfg Co 3 W 18 St New York 11 NY 4-30
General Cable Corp 420 Lexington Ave New York 17 NY 30-31-34-36-37-38-39-40-41-45-50-54-60-61	JFD Electronic Corp 5101 15 Ave Brooklyn 4 NY 2-5	Norotek Mfg Co 2632 W Cumberland St Philadelphia 32 Pa 1
General Cement Mfg Co Div Tectron Inc 400 Wynn St Rockford Ill 2-16-19	Joclin Mfg Co Lufberry Ave Wallingford Conn 16	North American Philips Co Elmet Div Lisbon Rd Lewiston Me 31-35-41-46-50-63
General Electric Co Construction Materials Div 1255 Boston Ave Bridgeport 2 Conn 38-39-41-45-50-60	Johnson Aircraft Eng'g Co Geophysical Services Div P O Box 16 Morristown NJ 1	North Electric Co 553 S Market St Gallion Ohio 14-17
General Electric Co 1331 Chardon Rd Cleveland 17 Ohio 32-46-53	Johnston & Funk Titanium Corp W Kenmore Ave Wooster Ohio 47-57-59-62-64	Nuclear-Electronics Corp 2632 W Cumberland St Philadelphia 32 Pa 1
General Finishes & Supply Co Industrial Div Leach & Garner Bldg Attleboro Mass 33	Jones & Laughlin Steel Corp 3 Gateway Center Pittsburgh 30 Pa 58	Ohonite Co 220 Passaic St Passaic NJ 14-15-21-22-29-54-60
General Insulated Wire Works 89 Gordon Ave Providence 5 RI 4-5-14-17-22-30-39-50	Kaiser Aluminum & Chemical 919 N Michigan Ave Chicago Ill 17-18-21-27-29-38-41-45-52	Organic Development Corp 10052 Larson Ave Garden Grove Calif 38-39-41-43-50-54
General Radio Co 275 Massachusetts Ave Cambridge 39 Mass 5	Kathair Corp Amelia Pl Stamford Conn 53	Pacific Automation Products 1000 Air Way Glendale 1 Calif 4-7-9
General RF Fittings Inc 702 Beacon St Boston 15 Mass 4	Kelley-Hayes Co 3600 Military Ave Detroit 32 Mich 37	Pacific Electricord Co 3217 Exposition Pl Los Angeles 18 Calif 4-10-17-19-20-30-37-50
Gordon Co Claude S 3099 S Wallace St Chicago 16 Ill 22-27-31-34-51-60-61	Kemet Co Div Union Carbide & Carbon Corp P O Box 6087 Cleveland 1 Ohio 50	Parker Metal Goods Co 85 Prescott St Warrenster 5 Mass 28-29-31-34-36-38-59
Gordon Enterprises 5362 N Cabuena Blvd N Hollywood Calif 4-17	Kinco Electronics Co Inc 40 Marbledale Rd Tuckahoe NY 4-17-19	Paul H & Stein Bros 235 5 Ave New York 16 NY 21-50
Gries Remanufact Corp 5 2nd St New Rochelle NY 43	Kinney Co Joseph Sycamore St Carnegie Pa 1-20	Permo Inc 6415 N Ravenswood Ave Chicago 26 Ill 42
Gulton Industries Inc 212 Durham Ave Metuchen NJ 5-12	Kolled Korde Inc 1565 Dixwell Ave New Haven 14 Conn 17	Petroff Corp Peter A 127 Water St New York 5 NY 4
Haekensack Cable Corp 110 Orchard St Haekensack NJ 2-3-19	Kulva Electric Mfg Co 633 S Fulton Ave Mt Vernon NY 16	Phair Plastics Corp 530 Highland Twrk Worcester 8 Mass 37-38-39-45-50-54
Hallamco Electronics Co 8352 Bronhurst Ave Anaheim Calif 4-37	Kunfrank Mfg Corp 395 State St Binghamton NY 4-37	Phelps Dodge Copper Products Corp Inca Mfg Div Lincoln Hwy E Ft Wayne 1 Ind 29-31-34-41
Hallett Mfg Co 5910 Bowcraft St Los Angeles Calif 29-30-37-58-54	Lab-Tronics Inc 3656 N Lincoln Ave Chicago-13 Ill 4-37	Philadelphia Insulated Wire Co 200 N 3 St 27-29-30-31-34-35-37-38-39-40-41-43-45-49-50-51-54-56-60-61
Hall-Scott Inc 2950 N Ontario St Burbank Calif 4-7-37	Leach & Garner Co Industrial Div Leach & Garner Bldg Attleboro Mass 27-28-35-44-48-49-51-56	Pioneer Patents & Products Co 3720 N New England Ave Chicago 31 Ill 4
Halozen Insulator & Seal Corp 10121 Franklin Ave Franklin Park Ill 60	Leonard Electric Products Co 67 34 St Brooklyn 32 NY 4	Pix Mfg Co 75 Hudson St Newark 3 NJ 33
Handy & Harmon 3625 Medford St Los Angeles 63 Calif 32-33	Leeds & Northrup Co 4970 Stenton Ave Philadelphia 44 Pa 61	Plastic Wire & Cable Corp Box 486 Iowa 486 4-5-8-9-10-11-12-14-15
Handy & Harmon 62 Fulton St New York 38 NY 35-51-56	Lenz Electric Mfg Co 1751 N Western Ave Chicago 47 Ill 5-9-16-11-12-13-14-15-29-34-38-39-50-54	Jewett City Conn 27-29-37-39-50-54-61
Hansen Co Wm 165 Silverbrook Ave Niles Mich 37	Lewis Eng'g Co 339 Church St Naugatuck Conn 5-23-29-60-61	Pomona Electronics Co 1126 W 5 Ave Pomona Calif 19
Havez Industries Inc 900 Greenbank Rd Wilmington 8 Dela 5-39-50-60	Life Instrument Co P O Box 158 Braintree 85 Mass 4	Porter Co Inc H K Riverside-Alloy Metal Div Riverside NJ 23-27-28-47-48-49-57
Heaton Co 333 Eberst St York Pa 33-53	Markay Inc A D 198 Broadway 21-23-24-26-27-32-35-44-46-47-48-49-51-52-53-54-55-56-57-59-61-62-63-64	Precision Tube Co Church Rd & Wisahickon Ave North Wales Pa 5-12-15-20-54
Hitequip Wire Inc 1200 Shames Ave Westbury NY 39-40-41-50-54-60	Macloed & Hanopol 19 Roland St Charlestown 29 Mass 4	Pres Industrial Equipment Ltd Box 302 Putt Corners Rd N New Paltz NY 9
Holub Industries Inc 413 De Kalb Ave Sycamore Ill 16	Mallory & Co Inc P R 42 S Gray St Indianapolis 6 Ind 25-49	Prodelin Inc 307 Bergen Ave Kearny NJ 2-5-5-13
Holyoke Wire & Cable Corp 720 Main St Holyoke Mass 29-30-34-37-39-50-53	Manger Electric Co Miller St Stamford Conn 4-30-37-43	Progress Electronics Co 298 Broadway New York 7 NY 2-4-5-9-14-15-16-39-54-60
Hopper Chemical Corp P O Box 313 Rutherford NJ 29-31-35-53	Markel & Sons L Frank School Lane Norristown Pa 22-37-39-50-54-60	Radio Corp of America Commercial Electronic Products Front & Cooper Sts Camden NJ 2-3-5-6-11-12-15-16-17-20
Hoover Electronics Co 112 W Timonium Rd Timonium Md 4	Markwik Mfg Co 31 Sexton Rd Plainview LI NY 43	Radix Wire Co 26260 Lakeland Blvd Cleveland 32 Ohio 9-11-15-22-29-30-34-38-50-54-60-61
Hoskine Alloys of Canada Ltd 45 Racine Rd Rexdale P O Toronto Ont Canada 31-47-53-57-61	Matthews & Co Jas 3942 Forbes St Pittsburgh 13 Pa 43	Ramo-Woodbridge Corp Electronic Instrumentation Div P O Box 8405 Denver 10 Colo 4
Hoskins Mfg Co 4445 Lawton Ave Detroit 8 Mich 51-53-57-61	Mercury Eng'g Corp 339 E Cottage Pl York Pa 4-30-37	Rea Magnet Wire Co 3616 E Pontiac St Ft Wayne Ind 21-27-29-31-41
	Meridian Metalcraft Inc 8739 S Millergrove Dr Whittier Calif 20	Reynolds Insulated Wire Co 830 Monroe St Hoboken NJ 2-3-5-12-15-20-29-38-39
	Mid-West Spring Mfg Co Etna St Mentone Ind 33	
	Microdot Inc 220 Pasadena Ave Pasadena Calif 5-10-12-13-15-20	
	Model Electric Products Corp Ashbury Park NJ 4-8	

Reliable Spring & Wire Forms Co
3167 Fulton Rd Cleveland 9 Ohio 31

Bembar Co
147 Main St Dobbs Ferry NY 46-59-63

Rem-Cru Titanium Inc Midland Pa 62

Republic Aviation Corp
Farmingdale LI New York 4-37

Revere Copper & Brass Inc
230 Park Ave New York 17 NY 1

Revere Corp of America
N Colony Rd 4-5-9-12-22-29-30-34-57-38-
Wallingford Conn 39-45-50-54-56-60-61

Rez Corp
Hayward Rd 2-5-9-10-11-12-14-
W Acton Mass 15-29-39-50-54-60-61

Reynolds Metals Co
P O Box 2346-2F
Richmond 18 Va 1-20-21

Richards Co Arklay S
35 Winchester St
Newton Highlands 61 Mass 61

Riverside Alloy Metal Div Porter Co H K
1 Pavilion
Riverside NJ 23-47-48-49-57

Roberts Mfg Co
426 E Shaffer Cleburne Texas 4

Rockbestos Products Corp
5-9-10-12-13-15-
Nicoll & Canner Sts 22-25-29-34-38-39-
New Haven Conn 41-45-50-54-60-61

Roebbing Sons Corp John A
540 S Broad St 9-14-20-21-27-28-29-31-
Trenton 2 NJ 34-36-38-41-49-50-57-58

Rome Cable Corp
Ridge St 9-12-20-21-27-29-34-
Rome NY 38-39-41-45-50-54

Rosenau Harris & Co
Ontario & 4 St
Philadelphia 34 Pa 4-17-37

Rowe Industries
1702 Wayne St
Toledo 9 Ohio 4-30-37-43

Royco Instruments
720 Arthur St Albany Calif 61

Ryerson & Son Joseph T
16 & Beckwell Sts Chicago 8 Ill 57-58

St Elbi Corp
P O Box 507 Newtown Bf
Cincinnati 44 Ohio 28-35-44-48-51-56

Sanders Associates
95 Canal St Nashua NH 4-9-12

Santa Monica Bay Sheltered Workshop
2521 S St Santa Monica Calif 36-37-43

Saxton Products Inc 2-3-5-9-10-11-12-13-14-15-
1661 Boone Ave 19-20-21-22-26-27-28-29-31-34-
New York 60 NY 36-37-38-39-40-41-45-50-54-
57-58-60-61

Scientific Coil Co
3610 Broadway Chicago 40 Ill 29

Scintilla Div Bendix Aviation Corp
Delaware Ave Sidney NY 4-8-37

Seavill Mfg Co
99 Mill St Waterbury 20 Conn 49

Secor Metals Corp
7 Intervale St 21-23-25-31-32-35-
White Plains NY 41-51-53-56-61-62

Semrow Products Co
4317 N Ravenswood Ave Chicago 13 Ill 26

Serquia Wire
2201 Bay Rd 2-3-4-5-9-10-11-12-13-
Redwood City Calif 14-27-29-30-50-54-60

Seymour Mfg Co
209 Franklin St Seymour Conn 49

Sheltered Workshop
2521 5th St Santa Monica Calif 4-30-37-43

Shure Bros
222 Hartrey Ave Evanston Ill 11

Sittler Corp
18 N Ada St Chicago 7 Ill 4-19-27-30-37

Skyscraper Inc
P O Box 92 McHenry Ill 37

Slepiak & Co Arthur
2 Burroughs St Bridgeport Conn 40-41

Smith Inc Herman H
2326 Nostrand Ave Brooklyn 10 NY 19

South River Metal Products Co
377 Turnpike South River NJ 21-36

Sprague Electric Co
Marshall St North Adams Mass 23-60

Stamford Metal Specialty Co
427 W Broadway New York 12 NY 4

Standard Metals Corp
262 Broad St
N Attleboro Mass 28-35-44-48-56

Standard Wire & Cable Co 1-2-3-4-5-6-7-8-9-10-
3440 Overland Ave 11-12-13-14-15-16-17-18-
Los Angeles 34 Calif 19-20-21-22-23-24-25-
27-28-29-30-31-34-37-38-39-40-41-45-46-47-
48-49-50-52-53-54-55-56-57-60-61

Star-A Electric Mfg Co
269 Moserole St Brooklyn 6 NY 17

Steel Protection & Chemical Co
Bridge St Mooresville Ind 56

Stretch Wire Co
P O Box 893 New Rochelle NY 18-60

Super Electronics Corp
53 Worth St
New York 13 NY 5-41-48-49-50-54-60

Superior Insulated Wire Co
Route 9W 2-3-4-5-9-11-12-13-14-15-
W Haverstraw NY 20-29-30-39-49-50-54

Supremant Mfg Co
172 Sterling St 4-5-9-12-15-23-29-30-37-38-
Clinton Mass 39-45-48-49-50-54-57-60

Switchcraft Inc
1328-30 N Halstead St Chicago 30 Ill 4

Swift & Sons M
10 Love Lane Hartford Conn 43

Sylvania Electric Products Inc Parts Div
12 2nd Ave
Warren Pa 28-33-35-44-45-47-48-52-56-57

Taffet Radio & TV Co
27-05 Brooklyn-Queens Expressway W
Woodside 77 NY 4-19-43

Tape Cable Corp
290 Linden Ave
Rochester 10 NY 8-10-12-20

Taylor Instruments Companies
95 Ames St Rochester 1 NY 61

Teahallo Co
Raines Pa 32-36-42-46-47-48-53-57-62

Tele-Coll Co
2723 Saunders St Camden 5 NJ 4

Teletro Industries Corp
35-18 37 St Long Island City 1 NY 4

Telegraph Construction & Maintenance Co Ltd
Mercury House Theobalds Rd
London W C 1 England 23-41-42-53-57

Telegraph Construction & Maintenance Co Ltd
Mercury House Theobalds Rd
London W C 1 2-3-5-6-7-9-11-12-13-14-
England 15-20-23-27-29-38-50-53

Telematic Industries Inc
16 Howard Ave Brooklyn 7 NY 4-19-37

Teletronic Labs Inc
1835 W Rosserams Ave Gardena Calif 43

Tenna Mfg Co
2580 Garfield Blvd Cleveland 23 Ohio 2-5

Tensolite Insulated Wire Co
198 Main St
Tarrytown NY 4-5-7-8-9-10-12-13-15-29-39-41

Terris Div Consolidated Siphon Supply Co
22 Wooster St New York 13 NY 26

Tesco Insulated Wire
109 E Prospect Ave
Burbank Calif 27-29-36-38-50

Therma Electric Co
109 S St Saddle Brook NJ 61

Time Electronic Sales
373 Broadway
New York 13 NY 2-3-5-11-12-35

Times Wire & Cable Co Aff Intl Silver Co
358 Hall Ave 2-3-5-9-10-11-12-13-15-19-
Wallingford Conn 28-34-38-39-50-54-56-60

Tinnerman Products Inc
Dept 16 P O Box 6688 Cleveland 1 Ohio 14

Titanium Alloy Mfg Div Natl Lead Co 64

Tiubener & Co E H
67 Clinton St Binghamton NY 30-33-37

Thieflex Inc
Hendee St Springfield 4 Mass 4-8-12-37

Topper Mfg Co Inc
147-12 Liberty Ave 5-22-25-30-38-
Jamaica 31 NY 39-41-50-54-60

Touch-Plate Mfg Corp
P O Box 1970 Long Beach 1 Calif 9-28

Translyne Corp
58-15 57th Dr Maspeth 78 NY 37

Tricon Mfg Co
5088 Wallace St Chicago 20 Ill 51

Tri-Dex Electronics
P O Box 1207 Lindsay Calif 4

Tvi-Es Tower Corp
127 E Inyo St Tulare Calif 36

Tru-Connector Corp
218 Union St Lynn Mass 4

TV Hardware Mfg Co Div Textron Inc
409 S Wymann St Rockford Ill 2-16

Union Plastics Corp
Wire & Cable Div 2-3-5-9-10-11-
1627 Paterson Plank Rd 12-13-14-15-27-29-
Secaucus NJ 38-39-45-50-54-56-60

United Mineral & Chemical Corp
16 Hudson St New York 13 NY 21

United Wire & Supply Corp
1497 Elmwood Ave Providence 7 RI 21-27

Univox Corp
102 Warren St New York 7 NY 2-5-10

U S Plastic Molding Corp
Carlton St Wallingford Conn 4

U S Plastic Rone Inc
2381 Spring St Redwood City Calif 38

U S Steel Corp
525 William Penn Pl
Pittsburgh 30 Pa 27-36-41-57-58

U S Wire Cable Co
Progress & Monroe Sts 2-3-4-5-9-11-12-15-
Union NJ 20-27-28-29-30-37-38-39-45-50-54

Utility Brass & Copper Corp
255 Conover St Brooklyn 31 NY 27-49

Vacuum Metals Grp Div Crucible Steel Co
P O Box 977 Syracuse 1 NY 57-58

Victor Electric Wire & Cable Corp
618 Main St W 2-3-4-5-9-10-11-12-14-17-18-
Warwick RI 19-20-30-38-39-50-53-54

Victor RF & Microwave Co
36 W Water St Wakefield Mass 4-20

Virginia Electronics Co
River Rd & B & O RR
Washington 16 DC 19-37

Wade Electric Products Co
Box 271 Sturris Mich 4-37

Waldorf Instrument Co Div F C Hovek & Sons
Park Ave Huntington Station NY 4

Walsco Electronics Mfg Co
100 W Green St Rockford Ill 11-12-19

Warren Wire Co 5-8-9-12-27-29-31-34-38-
Pownal Vt 39-41-53-54-56-60

Western Gold & Platinum Co
525 Harbor Blvd Belmont Calif 51

Western Insulated Wire Co
2425 E 30 8-9-10-11-12-20-
Los Angeles 58 Calif 22-38-39-54-60

Western Int'l Co
45 Vesey St 2-3-5-8-9-10-11-12-13-14-15-20-
New York 7 NY 27-29-29-34-38-39-50-54-56-60

West Instrument Corp
4363 W Montrose Ave Chicago 41 Ill 61

Westlake Plastics Co
133 W Lenni Rd Lenni Pa 50

Westline Products Div Western Lithograph Co
600 E 2 St Los Angeles 54 Calif 43

Western Electrical Instrument Corp
614 Frelinghuysen Ave Newark 12 NJ 19

Weymouth Instrument Co
1440 Commercial St E
Weymouth 89 Mass 4-5

Wheeler Insulated Wire Co
150 E Aurora St Waterbury 20 Conn 4-37

Whitaker Cable Corp
1301 Burlington St N 7-8-9-11-12-17-
Kansas City 16 Mo 29-30-37-50-54

Wildberg Bros Smelting & Refining Co
742 Market St San Francisco 2 Calif 51

Willard Storage Battery
246 E 131 St Cleveland 1 Ohio 8

Wilmar Mfg Co
1110 Truman Rd Kansas City Mo 4

Wind Turbine Co
E Market St & PRR W 2-4-16-20-27-
West Chester Pa 28-29-36-57

Winder Aircraft Corp of Florida
P O Box 2397 Dyane Field
Lakeland Fla 1-1-6-37

Winlow Co
791 Lehigh Ave Union NJ 19-61

Wire Co of America Inc
Santa Barbara AP Bldg 247
Santa Barbara Calif 4-9-11-12-10-45-50-54

Wirecraft Products Inc
10 Lake St W
Brookfield Mass 1-5-9-10-12-37-39-60

Worcester Wire Works Div
National-Standard Co
70 James St Worcester 3 Mass 28-41-47-57-58

Wright Steel & Wire Co
243 Stafford St Worcester Mass 26-36

Wyeth Eng'g Inc
9913 Waiden Pkwy Chicago 43 Ill 4

York Co Inc Otto H
6 Central Ave W Orange NJ 20

Zierick Mfr Corp
Beechwood & Rockdale Ave
New Rochelle NY 33

Zippertabing Co
752 S San Pedro St
Los Angeles 14 Calif 4-5-7-12-14-16-57

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This Issue!**

You Are Now Using The
**MOST COMPREHENSIVE DIRECTORY
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In The Electronic Industry**

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1ST ANNUAL ENGINEERING
REFERENCE ISSUE**

and including
**A Storehouse of
Helpful Technical Advertising
From Leading Firms
in the Industry.**

CONSULTING ENGINEERS

ELECTRONIC INDUSTRIES DIRECTORY

Consulting Engineers

An alphabetical listing of individual engineers and engineering companies specializing in consulting services for the radio-TV-electronic and allied fields. The particular specialty of each engineer is indicated by a code letter following his name and address.

Broadcast	A
Communications	B
Component Manufacturing	C
Electronic Control Systems	D
Equipment Manufacturing	E
Industrial Electronics	F
Recording, Audio	H

Adair Eng'g Co 1610 I St N W Washington D C A B
 Alvarado TV Co 122 Tulane St S E Albuquerque N M A B
 Amoo L R Granger Hill Valley City N Dakota A B
 Andrew Inc L W 1927 College Ave Davenport Iowa A B D F
 Antin Joseph 13-35 225th St Laurelton 13 LI N Y C D
 Ark Eng'g Co 431 W Tabor Rd Phila 20 Penna C
 Automation Management Inc 25 Brigham St West-boro Mass D F
 Baller Leslie M 883 Bergen Ave Jersey City 6 N J F
 Behar M F 245 Melwood Ave Pittsburgh 13 Penna D F
 Benns Jr W E 2802 Military Rd N W Washington D C A
 Bitzer Ralph J Suite 298 Arcade Bldg St Louis 1 Mo A
 Bixby Assoc H O 100 Memorial Dr Cambridge 12 Mass B
 Briggs Assoc Inc 10 DeKalb St Norristown Penna D F
 Brubaker P M 100 Essex Ave Glen Ridge N J D F
 Burnstead R W 624 Maple St Westfield N J D F H
 Burnett W W L 4814 Idaho St San Diego 16 Calif A B D F
 Carr Ass'n L H 1001 Connecticut Ave N W Wash-ington 6 D C A B
 Chapp S 39 Maple Ave Upper Darby Pa B D F
 Cisin Harry G Amagansett N Y A
 Cullum Jr A Earl Inwood P O Dallas 9 Texas A B
 Culver L R College Sta Mataguez P R C
 Davis George C 504 Munsey Bldg Washington 4 D C A
 Day George 697 Sterling Pl Brooklyn 16 N Y B H
 Delta Electronics 1803 Louisiana Ave New Orleans 15 La E
 DeRyder N Notch Rd & Route 46 Little Falls N J F
 Douglas Eng'g Co 2R Taylortown Rd Montville N J C
 Dunleavy Frank S 2660 North Ave Bridgeport 4 Conn C D E
 duTrel & Assoc L J N 10412 Jefferson Hwy New Orleans 23 La A
 Electronic Equipment Supply 249 N 48th St Lincoln 10 Neb D E F
 Engineering Services 621 Jones Way Sacramento 18 Calif D F
 Eszy Dawkins Box 933 Beverly Hills Calif A B

Fein Mitchell 202 Saddlewood Dr Hillsdale N J C E F
 Frese G M Rt 3 Box 3276 Wenatchee Wash A
 Friedman T B 235 Quadro Vecchio Dr Pacific Palisades Calif A B
 Frommer J C 1525 Teakwood Ave Cincinnati 24 Ohio F
 Gallay Labs 60 Perry St Belleville N J B D
 Godley Co Paul P O Box J Upper Montclair N J A B F
 Gordon H L Warner Bldg Washington 4 D C C D F
 Graf Rudolph 215 W 92nd St New York 25 N Y B E F
 Gray Claude W P O Box 602 Birmingham 1 Ala A
 Greer P A Rt 1 White Horse Rd Greenville S C A
 Haller Raymond & Brown Inc Science Park Circleville Rd State College Penna B C D E F
 Hammelt & Edison Box 68 Int'l A P San Francisco 28 Calif A B
 Hartong J C Box 466 Beckley W Va B D E F H
 Hatfield J B 906 36th Ave Seattle 22 Wash A
 Heffelfinger J B 8401 Cherry St Kansas City Mo A
 Hogan A W 2008 W Earl St Phoenix Ariz F
 Hogan Labs Inc 155 Perry St New York 14 N Y B E H
 Hoisington D B 150 El Cammito Carmel Valley Calif B D F
 Holey W J 1146 Briarcliff Pl N E Atlanta Ga A
 Hutcheson G C Box 32 Arlington Texas A B
 Irco Corp 16 Hudson St New York 13 N Y D F
 Isberg R A 2001 Barbard Dr Palo Alto Calif A B D H
 Instruments for Industry 150 Glen Cove Rd Mineola N Y E
 Jacker E W 420 S Chase Ave Lombard Ill A B D F H
 Jansky & Bailey Inc 1339 Wisconsin Ave N W Wash-ington 7 D C A B D F
 James Vir N 1316 S Kearney Ave Denver 22 Colo A
 Johnson Earl M 601 Kanawha Hctel Charleston W Va A
 Johnson J Kelly 184 South Ave New Cannan Conn B C D E F
 Kalbfell Electronic 3434 Midway Dr San Diego 10 Calif D
 Kallman H E (PHD) 417 Riverside Dr New York 25 N Y D E
 Kear & Kennedy 1302 18th St N W Washington 6 D C A B D
 Keel J J 1121 E Capitol St Washington D C A
 Kelburn Eng'g 3136 Clarence Ave Berwyn Ill F
 Kunins M M 1730 Popham Ave New York 53 N Y D F
 Levey Labs H A 8127-33 Oleander St New Orleans 18 La D F
 Leydork G F Savings & Loan Bldg Birmingham Mich A B F
 Lohnes & Culver Munsey Bldg Washington 4 D C A
 Lubcke Harry R 2443 Creston Way Hollywood 28 Calif A
 Lyon H H 4004 Jefferson St Hyattsville Md A B
 McIntosh F H 1906 M St N W Washington 5 D C B E
 McNary J E 906 Nat'l Press Bldg Washington 4 D C A B

McNeal J D 749 Quinnipiac Ave New Haven Conn D E F
 Magnuson Engineers 509 Emory St San Jose Calif E
 Mast Development Co 2212 E 12th St Davenport Iowa F
 Matson Wally Regal Eng'g Co 1220 S W Stark St Portland 5 Ore B F
 May Russell P 711 14th St N W Washington 5 D C A B
 Mid-West Eng'g Corp 5337 N Santo Monica Blvd Milwaukee 17 Wisc A B H
 Mittelmann E E (PHD) 549 W Washington Blvd Chi-cago 6 Ill D F
 Moffet John A 1405 G St N W Washington 5 D C A
 Morefield John A 441 N 25th St Camp Hill Pa B D H
 Morris Jr Fred W 11600 Fairway Dr Los Altos Calif B D
 Mullaney John H 2000 P St N W Washington D C A B
 Murray A F 4900 Hillbrook Lane N W Washington 6 D C B D
 Myse & Assoc D A 1411 Pennsylvania Ave N W Washington 4 D C B
 Nat'l Scientific Labs 2010 Mass Ave N W Wash-ington 6 D C B D
 Pfeiffer G S 4529 W Parker Ave Chicago 39 Ill F
 Pickles Sidney P O Box 1126 Tonopah Nev C
 Pollack Dale 751 Main St Waltham Mass E
 Polydoroff W J 927 15th St N W Washington 5 D C C H
 Pooley R R 3153 N E 83rd Ave Portland 20 Ore A
 Preisman A 616 St Andrews Ln Silver Springs Md A B H
 Pressman Assoc 7803 Farnsworth St Phila 15 Penna D E F
 Rabinow Eng'g Co 7212 New Hampshire Ave Wash-ington 12 D C D F
 Radio Eng'g Co 1111 Market St San Francisco Calif A
 Raesler J L 93 Phelps Rd Manchester Conn D E F
 Richardson Assoc W E 1017 S W Washington Port-land Ore A B
 Ring & Assoc A D 1032 Penna Bldg Washington 4 D C A
 Rochester Electrical & Radio Lab 462 Plymouth Ave Rochester 6 N Y D F
 Rosenberg Assoc Paul 100 Stevens Ave Mt Vernon N Y B D F
 Rountree J G 5622 Dyer St Dallas 6 Texas A B
 Saxon Merl P O Box 575 Lufkin Texas A
 Schultz Co 503 N Pine St Indianapolis Ind D F
 Selby H E 619 68th St Brooklyn 20 N Y B C E
 Shepard Labs Inc Broad St & Park Ave Summit N J D E
 Singleton Harold C 4488 S W Council Crest Dr Port-land 1 Ore A H
 Smith Carl E 4930 Euclid Ave Cleveland 3 Ohio A B F
 Smith G D 136 Liberty St New York 6 N Y F
 Stone Clarence G Good Hill Rd RFD 2 Weston Conn D F
 Strain Eng'g 4556 Northside Dr N W Atlanta 5 Ga A
 Sunstein D S General Atronics Corp 1 Bala Ave Bala Cynwyd Pa B C D E F
 Swantek J 3132 Glacier Way Ann Arbor Mich A B
 Tammam & Denison 650 S Clark St Chicago 5 Ill D F
 Tannenbaum Jerome 5240 S Harper Ave Chicago 15 Ill D F
 Taylor Archer S Box 1479 Missoula Mont A B
 T & T Radio Measurements 2557 Atlantic Ave Long Beach 6 Calif A B
 Towne Alfred E 420 Taylor St San Francisco 2 Calif A
 Uglow Kenneth M 7961 Eastern Ave Silver Spring Md B
 Vandivere & Cohen Evans Bldg Washington 5 D C A
 Wagner & Assoc 5758 San Fernando Rd Sun Valley Calif C D F
 Walsh Eng'g Co 34 DeHart Pl Elizabeth 2 N J C F
 Watson Raymond C P O Box 1472 Anniston Ala A D F
 White Edwin L 480 Coffee Pot Riviera St Petersburg Fla B
 Whitney Philip 200 Shawnee Ave Winchester Va A D
 Williams Bruce M 1805 Westway Ave Garland Texas C D E F
 Wilmotte Inc R M 340 E 74th St New York 21 N Y B D
 Winfield Scott McCachren & Assoc 2404 Columbia Pl Arlington 4 Va A
 Wortman L A 75 Charles St New York 14 N Y D F H
 Wright Eng'g Co 7941 McNulty Ave Canoga Park Calif A B D F

REPRESENTATIVES ("REPS.")

ELECTRONIC INDUSTRIES DIRECTORY of

Representatives ("Reps")

This section of the 1958 Electronic Industries Directory lists those representatives operating as independent "reps" who handle two or more lines. They do not include factory staff salesmen. "Reps" are listed alphabetically under states and cities. Asterisks (*) indicate membership in "The Representatives" of Electronic Product Manufacturers, Inc. Telephone numbers are given to speed contacts.

Alabama

BIRMINGHAM

- *Emory Design & Equipment Co P O Box 9013 404 Dexter St TR 1-1369
- Gooch & Assoc D B 5018 First Ave N LY 2-8191
- *Haydn Assoc Paul Route 13 Box 978 TR 9-4774
- *Jesse Assoc George O 919 Palmetto St TR 9-6015
- Sharley Eugene T P O Box 5987 Homewood Station TE 1-0064
- Woodman Inc B S 1727 Sixth Ave

MOBILE

- Gregory-Salisbury & Co Inc 102 Bradford St HE 3-4395
- *Mart Eng'g & Sales Co 3161 Ralston Rd GA 6-7266

Arizona

PHOENIX

- *Bernstein & Co 39 W Adams St AL 2-4371
- Brooks, Feeger & Morrow 3702 E Meadowbrook AM 5-0274
- Coulson Co Roy E P O Box 9215 8050 N Third Ave WI 3-8935
- Electrical Specialty Co. 210 Adams St AL 2-2107
- Howe Emory F 1238 N *2 Pl
- *Marsh Co J W 305 E Indian School Rd
- Marsh Co J W 1011 W Whitton Ave AM 6-9124
- Maydwell & Hartzell Inc 324 S Second Ave AL 3-9595
- Moore Sales Co Harry A 305 E. Indian School Rd CR 4-0060
- Morrow Charles 3702 E Meadowbrook
- *Neely Enterprises 641 E Missouri CR 4-5431
- Redmond Supply Co J E PO Drawer 869 625 Madison St W AL 4-8471
- *Roberts & Assoc E V 900 N First St AL 4-4664
- Sheffer-Kahn Co P O Box 1587 240 S First Ave AL 8-7893

TUCSON

- Grimes Everett E 2100 E Waverly AR 6-4225
- Jewell Co Samuel O 1025 S Van Buren Ave EA 7-1644
- Kuehnle Geo W 708 E 9th St
- *Marshall Co G S 3915 E Broadway Ea 7-1501
- Neely Enterprises 232 E Tucson Blvd MA 3-2564

Arkansas

PINE BLUFF

- Gregory-Salisbury & Co Inc 815 Hudson Ave P O Box 073 JE 1-5932

California

LOS ANGELES AREA

- A F Associates 385 E Green St (Pasadena)
- Arsupply Co 9815 Wilshire Blvd (Beverly Hills) BR 2-8111
- *Alderson Co Wes 3050 Overland Ave P O Box 34678 TE 0-1030
- Alleman P O Box 39685
- Anf Der Heide Ralph P O Box 201 (Altadena)
- Appleton Co Harry P O Box 57 136 San Fernando Rd CA 5-5611
- Atomic Assoc Inc of Calif 10715 Venice Bldg Barnhill Associates 6520 W 62nd Ave (Arvado)
- *Barron W J Co 1406 S Grand Ave
- *Bassel Co Wm E 12045 Magnolia Blvd (N Hollywood) ST 7-7129
- *Barstow & Doran 1406 S Grand Ave RI 8-6191
- *Becker Co Herb 1140 Crenshaw Blvd WE 1-1257
- *Bell Co A Arin 385 E Green St (Pasadena) RI 1-0491
- *Berman Co Jack 1141 S La Cienega Blvd DL 5-8920
- *Bray & Carter 2234 W Eleventh St DU 9-3173
- Brazon Pete 1205 W Blvd
- Brenner-Fiedler Assoc Inc 661 N Spaulding Ave Brunson & Assoc Inc R M 7440 Girard Ave (La Jolla)
- Cables & Systems Engineers Inc Suite 110 1263 Westwood Blvd
- Chafin & Champion Assoc 1541 W Olympic Blvd
- *Charratt Co 1409 Wilshire Blvd (Santa Monica) TE 0-8489
- *Cochrane-Barron Co 544 S Mariposa Ave DU 5-0095
- Cochrane-Barron Co 235 E 3 Ave (San Mateo) DI 2-3871
- *Cohn Sales Co S H 1769 S Holt Ave TE 0-4398
- Cole & Co D B 557 E Walnut St (Pasadena 1) RY 1-8730
- *Components Sales Corp 4626 1/2 Van Nuys Blvd (Sherman Oaks)
- Condon Co Earl S 3460 Wilshire Blvd DU 1-3951
- *Corman Walter 7432 W 80 St OR 4-5833
- Costello & Co 3406 W Washington Blvd RE 3-9175
- Currier Co G H 2368 E Foothill Blvd (Pasadena)
- Dauber J F 7579 Melrose Ave WE 8-2448
- Dorr Wagner & Assoc P O Box 333 (Pasadena)
- *Dubek Co Richard C 407 N Maple Ave (Beverly Hills) BR 2-8097
- Davidson & Assoc Joe 2803 Los Flores Blvd (Lynwood) NE 6-2245
- Eastman Pacific Co 5240 Alhambra Ave Edwards & Co Jackson 4104 Lankershim Blvd (N Hollywood)
- Etencord Co 4113 W Olive Ave (Burbank)
- Electrical Specialty Co 2820 E 12 St AN 9-9511
- *Ellis Co David 919-D E California St (Pasadena) RY 1-9108

- *Emmett Co Frank A 2837 W Pico Blvd RE 1-8211
- Enright Engineering Co 3721 Palos Verdes Dr N (Palos Verdes Estates)
- *Erlanger Sales Co 4217 W Jefferson Blvd RE 1-2238
- *Feldman Co Henry 1244 S Grand Ave RI 9-8803
- Fillmore Co Dave 1135 Huntington Dr (Arcadia)
- Fraser & Hansen 225 W 23 St
- Gea & Assoc Harry 5333 S Sepulveda Blvd (Culver City)
- *Geist Co W K 3177 Glendale Blvd NO 5-8910
- *Gilbert Co M B 1608 Centinela Ave (Inglewood 3) OR 8-5767
- Glerum Irv 15336 Roscoe St (Van Nuys)
- Gratiot Roy F Co 1261 S Glendale Ave (Glendale 5) CH 5-3746
- Hachten Co J E 8413 Las Tunas Dr (Gabriel) CU 3-3860
- Hansen Charles 1406 S Grand Ave RI 8-6191
- Hardie Sales Assoc 117 S Lafayette Park Pl
- Harmon Co W S P O Box 1380 121 N Robertson Blvd (Beverly Hills) BR 2-3321
- Harris Co Bucky 3440 Overland Ave TE 9-4647
- Harris-Koefke Sales Co 204 E Hillside Blvd (San Mateo) FI 1-2909
- Harwick Std Chem Co 1248 Wholesale St
- Heaton James S 3525 Alameda De Las Pulgas (San Mateo) FI 5-6229
- Heekendorn Phillip 803 Hosteman Ave (La Canada) SY 0-2869
- Heim & Scheer 11168 Santa Monica Blvd BR 2-5133
- Hill Ch J T 420 S Pine St (San Gabriel) CU 3-6555
- Holmes Co Carl E 107 N Ave 64th Cl 6-2255
- Hundley Co P O Box 65916 Glassel Sta 3282 Fitcher Dr CL 5-7111
- Instruments for Measurements 3455 Cahuenga Blvd Suite F (Hollywood 28) HD 9-7294
- Jackson Edwards Co 9101 Lankershim Blvd (N Hollywood)
- Jewell Co Hollis 5422 W Washington Blvd WE 3-7259
- Jewell Co Samuel O 13537 Addison St (Sherman Oaks) ST 9-5027
- *J & F Sales 1071 Glendale Blvd DU 5-7391
- *Jurin Co Syd 1428 S Brently Ave
- Kaufman Jack 126 25th Ave (San Mateo) FI 1-4942
- *Kev Enterprises 15131 Gilmore St (Van Nuys) ST 0-6187
- Kimball R 35 N Raymond Ave (Pasadena)
- King Eng'g Co 3931 Prospect Ave
- Kittleson Co 416 N La Brea Ave (Hollywood) WE 3-7371
- *Knight W Bert 10377 W Pico Blvd BR 2-5647
- *Koessler Industries 818 N Fairfax Ave
- *Koessler Sales Co 818 N Fairfax Ave OL 3-1605
- LaMoree C D 2433 Birdale St
- Lavine Dick 6441 Bothwell Ave (Pasadena)
- Ledbetter Co Geo 16618 Ventura Blvd (Encino)
- *Luscombe Engineering Co 17 W California St (Pasadena) SY 5-6463
- Lynch & Son C R 3307 Glendale Blvd NO 3-8236
- *McCarthy Associates 1055 Walnut East (Pasadena) SY 2-8272
- MacLennan Co D R 921 Westwood Blvd
- *Mann Assoc Martin 14751 Keswick P O Box 142 (Van Nuys)
- *Markman Co R Mark 850 N Vine St
- *Marsh Co J W 4216 W Jefferson Blvd RF 2-9115
- Marshall Co G S 2065 Huntington Dr (San Marino) RY 1-6781
- Marshall Sales Co 7422 Melrose Ave WE 9-2001
- Mawdell & Hartzell Inc 427 W Fifth St Mil-7245
- Meriam Charles Co 5017 Telegraph Rd
- M J C Accessories Co P O Box 332 446 W Arbutus St (Compton)
- *Miller Gerald B 1334 Old County Rd (Belmont) LY 1-0365

- Michel Bros 1015 E 16 St RI 9-7587
- Miller-Joyce Inc 5919 W Third St
- Miller-Robinson Co 7007 Avalon Blvd
- Mitchell Co C H 9015 Wilshire Blvd (Beverly Hills) BR 2-6635
- Moye Co Robt G 116 Stoneman Ave (Alhambra)
- Moyon Sales G E 7553 Melrose Ave WE 8-2565
- *Nash Co A W 2112 S Atlantic Blvd AN 9-7304
- *Neely Enterprises 3939 Lankershim Blvd (N Hollywood) ST 7-0721
- Nurches Paul 3250 Rida St (Pasadena)
- Olander & Co Roland 6313 Santa Monica Blvd NE 5-1211
- *Osborne R E 1757 Garfield Ave (Pasadena) RY 1-3175
- Owens Lee H 1102 S Western Ave
- Pacific Electro Sales Inc 603 1/2 Whittier Blvd RA 3-3396
- Pacific Scientific Co P O Box 22019 LU 3-1121
- Paules & Co E G 1762 W Vernon Ave AX 3-6265
- Penwarden Co J G 14734 Armita St (Van Nuys)
- *Perlmuth Electronic Assoc 2419 S Grand Ave RI 7-4321
- Peterson Co F S 1501 Manle Ave RI 9-6151
- Porter Co Don 1117 S Robertson Blvd
- *Posner Co 1223 Venice Blvd DU 8-9508
- Puclicher Richard T 3151 E Colorado St (Pasadena 5)
- Quality Control Co 1566 N Western Ave HO 9-5385
- Rainville Co of Calif 1420 S Garfield Ave (Alhambra)
- R & D Inc P O Box 308 (La Canada)
- Reed Co C W 5959 S Hoover Pl 3-2221
- *Roberts & Assoc E V 5068 W Washington Blvd WE 3-5731
- Ross Mal 6119 Longridge Ave (Van Nuys) WE 8-5271
- Ruby & Assoc H W P O Box 63 (La Canada) SY 0-3195
- *Rund Co V T 307 Parkman Ave DU 7-8224
- *Shoemaker H M & Assoc 1127 Wilshire Blvd WE 1-1304
- *Snitzer Co T Louis 5354 W Pico Blvd WE 8-2074
- Snitzer Co T Louis 7814 Ivanhoe Ave (La Jolla) GL 1-2191
- *Snyder Co L G 1418 N Highland Ave (Hollywood) HO 9-6278
- Sodaro Co 9400 Culver Blvd (Culver City)
- Srraggins S L Co 914 S Robertson Blvd
- *Starr Edwin E 4101 Rhodes Ave (N Hollywood) ST 7-5879
- Stebbins G T Rm 508 7046 Hollywood Blvd
- *Stern & Co I R 4109 Burbank Blvd VI 9-1195
- Stevens-Capell Co 10023 W Jefferson (Culver City)
- *Stevens Co Inc Thomas L 5333 S Secular Blvd (Culver City) EX 8-5768
- Stichel-Garrett & Assoc 4357 Melrose Ave
- *Stolaroff M A Co 4622 W Slauson Ave AX 3-6222
- Stone Carl & Assoc Inc 8971 National Blvd TE 0-7771
- Stone R L Sales Co 8971 National Blvd TE 0-5972
- *Strassner & Co C R 1865 N Western Ave HO 2-0916
- *Theisner W 11161 Samedra St (Cupertino) CH 3-5142
- Thorson Co The 7361 Melrose Ave WE 1-1191
- Tri-State Supply Co 544 S San Pedro St
- *Wallace & Wallace 1206 Maple Ave Bendix Bldg RI 7-0401
- Wedge Weber Co 1217 Venice Blvd
- *Weightman & Associates 4101 Burbank Blvd (Burbank) VI 9-2435
- Wesco Sls Co 2848 Colorado Ave (Santa Monica)
- Wespre Corp 2022 S Sepulveda Blvd BR 2-3757
- *Western Control Equip Co 14615 Ventura Blvd (Sherman Oaks) ST 7-0447
- West Lloyd E 557 E Walnut St (Pasadena) RY 1-5281
- *Westron Sales 7407 Melrose Ave WE 3-7276
- Wilcox Co E A 6436 E Corvete St P O Box 6864 RA 3-6436

REPRESENTATIVES ("REPS.")

Wiley Paul F 1632 Silverlake Blvd NO 3-8028
 Wood Co Ash H 11938 E Garvey Blvd (El Monte)
 CU 3-1201
 Wright Eng'g Co 180 E California St (Pasadena 1)
 RY 1-8488
 Wyle Associates 130 Maryland St (El Segundo)
 Yearbrough Sales Co 2636 Mission St (San Marino)
 RY 1-3331
 Yudelson Co Floyd 3142 Wilshire Blvd
 *Zimmerman Co W E 407 1/2 Maple Dr (Beverly
 Hills) RY 2-1181

SAN DIEGO AREA

Airsupply Co 3380 Harbor Dr P O Box 6296 CY
 8-1121
 Chalin Co C G P O Box 7332 AC 2-7516
 Denny Sales Co Wm H P O Box 6049 AC 3-3852
 *Hill Co J T 1864 Bacon St AC 3-7133
 McCarthy Assoc 934 W Laurel St BE 9-4015
 *Marshall Co G S 3525 Fifth Ave CY 8-8234
 *Moran Sales B E 3616 Buena Vista St
 *Neely Enterprises 1055 Shafter St AC 3-8106
 Pacific Scientific Co 339 W Broadway RE 3-0156
 Roberts & Assoc E V Suite 5 477 30th St

SAN FRANCISCO AREA

Airsupply Co Rm 207 Town & Country Village
 (Palo Alto) DA 6-4186
 *Ault Assoc 906 Willow Rd (Menlo Park) DA
 6-1760
 Belchamber & French 1485 Bayshore Blvd JU
 6-0406
 *Bellone Co 129 Market St YU 7-1713
 *Berman Co E L 758 haloma St UN 3-0317
 *Brandt Co E W 1337 Market St
 Brainard W V 535 Middlefield Rd Rms 5-6 (Palo
 Alto) DA 6-5421
 Cahn Sales Co B L 873 Lake St
 Campbell & George Co 1601 Cortland Ave MI
 8-1236
 Cervini-Hunter Assoc P O Box 21 (Redwood City)
 EM 9-3354
 Connolly Wallace E 60 Gaborra Way (Menlo
 Park) DA 3-1930
 *Dalton Associates C R 132 El Camino Real (San
 Carlos) LY 1-2654
 Darling Abrasive & Tool Co 2186 Painu Ave
 Deere Assoc Inc Jerry 1665 Laurel Ave (San
 Carlos) LY 3-8083
 Deere Co Jerry 1809 Virginia Ave (Redwood City)
 Eastman Pacific Co Pnx 533 (Orinda)
 Eichorn & Melchior 779 Bryant St DO 2-1038
 Electrical Specialty Co 158-168 Eleventh St ME
 1-8450
 Electrographic Labs 4645 Caritina Dr (Tarzana)
 Electronic Engineering Assoc Ltd 1295 Laurel St
 (San Carlos)
 Eljenje Co 345 California Ave (Palo Alto)
 Ellis Sales Co G B 3241 E Camino Real FM 8-3819
 Featherstone & Salisbury 607 Market St YU
 2-5766
 Ferris W E 422 W Roses Rd (San Gabriel)
 Frazar & Hansen Ltd 301 Clay St EX 2-5112
 Gray Co Hugh 2166 Market St
 *Harriss Sales Co L H 383 Brannan St YU 5-1084
 Herwmann Assoc Carl P O Box 1179 (Palo Alto)
 Hill Co J T 1682 Laurel St (San Carlos) LY
 3-7693
 Howard & Assoc G M 1301 Sixth St at Hubbell
 MA 1-6759
 Kino Moon Co P O Box 443 (Woodland Hills)
 Killleson Co 809 San Antonio Rd (Palo Alto)
 DA 6-7410
 *Koester Sales Co 2840 Geary Blvd IO 7-9622
 *Kolans & Co Bill 3589 20 St MI 7-6685
 Kolans Co Bill 499 El Camino Real So (San
 Bruno) JU 3-8363
 *Lebell Co Frank 1485 Bayshore Blvd JU 7-8709
 Lewis Assn-Dean 4385 Piedmont Ave (Oakland)
 CL 4-0613
 Logan Jack 256 Macellan St
 *Logan Sales Co 150 8th St HE 1-0492
 Loma & Assoc 1219 Canterbury Dr (Burlingame)
 DI 3-8537
 *McCarthy Assoc 441 W California Ave (Palo
 Alto) DA 5-6136
 McKnight Co P O Box 543 (Menlo Park) DA
 6-3762
 Marshall Co G S 7015 El Camino Real (Redwood
 City) EM 6-8214
 Marsh Co I W 1258 Fitzgerald Ave
 *Mauldin Co C W 441 W Calif (Palo Alto) DA
 4-2135
 Maydwell & Hartzell Inc 870 Tennessee St AT
 8-6900
 *Meyer & Ross 113 10th St HE 1-0652
 Montgomery Brothers 1122 Howard St UN 1-3527
 *Moulthrop & Hunter 165 Eleventh St HE 1-2624
 *Moulthrop Co F W 575 Tenth St MA 1-0722
 *Neely Enterprises 1317 15th St (Sacramento 14)
 LY 1-2626
 Newman Co Harold 56 41st Ave (San Mateo)
 YU 6-3897
 Nickerson-Gray & Assoc 1389 Willow Rd (Menlo
 Park) DA 6-4928
 Notz & Co L A 1061 Howard St HE 1-4738
 Pacific Scientific Co 25 Stillman St DO 2-0934
 Peninsula Associates 3150 Bayshore Highway (Red-
 wood City)
 Peterson F S 157-13 St MA 1-2255
 Peterson P W 7711 W Lake St (River Forest)
 *Prieger Co R L 1652 Laurel St (San Carlos)
 LY 1-0396

Power-Mac Corp 467 S Van Ness Ave
 *Purdy Co W J 312 Seventh St UN 3-4321
 Roberts & Assoc E V 1560 Laurel St (San Carlos)
 LY 3-7878
 *Ross David H 534 E Camino Real (San Carlos)
 LY 3-8224
 Routh Co T R 1209 Capuchino Ave (Burlingame)
 DI 2-4147
 Rudal Sales 1477 Dana Ave (Palo Alto)
 Salisbury & Assoc C M 1453 7th Ave LD 6-8160
 *Sinai Arnold & 65 Ninth St UN 1-6259
 Sinai-Johnson Inc 129C W Hillsdale Blvd (San
 Mateo) FI 5-5084
 Snitzer Co T Louis 510 S Mathilda Ave (Sunny-
 vale) RE 6-6733
 *Sodaro Co Joseph F 190 Greenwich St DO 2-0616
 Striker Co John P O Box 548 (San Carlos)
 *Tompkins & Co Wm W 2363 Birch St (Palo
 Alto) DA 3-3270
 Tri-State Supply Corp 554 Bryant St
 Van Grocs Co 21051 Costanzo (Woodland Hills)
 DI 0-3131
 Weatherbie Associates Moorpark & Meridian (San
 Jose)
 Weightman & Assoc Suite No 5 1436 El Camino
 Real (Menlo Park) DA 6-3797
 *White & Co 788 Mayview Ave (Palo Alto) DA
 3-4455
 Wilcox Co E A 277 Seventh St HE 1-6670
 Yearbrough Sales Co 275 Brannan St

Colorado

ASPEN
 *Kettering Charles V P O Box 172 5281
 BOULDER
 *Golliger Co W B 1003 Grandview Ave HI 2-7899
 Hytronic Meas Co 1295 S Bannock
 COLORADO SPRINGS
 *Peyster & Co Wm J 1501 W Weber St ME 4-3401
 CREELEY
 Moss Sales Co P O Box 428 EL 3-1452
 DENVER
 Automatic Control & Equipment Co 5750 Pecos St
 Barnhill Associates 1170 S Sheridan Blvd
 *Bowen Co Ronald G 721 S Broadway RA 2-4641
 Brooks Freger & Morrow P O Box 3255 East Col-
 orado Branch AL 5-1196
 CFL Co 1871 S Broadway SP 7-4381
 Cloos Gregg M 1232 Santa Fe Dr
 *Clucht & Assoc Stan 75 Cody Court
 *Connors Co W H 375 Birch St DE 3-7628
 *Cox Sales Co 51 Ouden St
 Denver Eng'g Sales Co 2720 E Third Ave
 Electrical Specialty Co 2026 Arapahoe St CH
 1-4588
 Elliott Clyde P 661 Delaware St AL 5-7988
 E & M Equipment Co Inc 2415 15th St GL-3651
 Franklin Sales Co 1219 California St AM 6-1552
 *Hyde Sales Co 1341 Cherokee St CH 4-7471
 Hytronic Measurements 1295 S Bannock St SH
 4-2241
 Kaub & Co Hubert 1025 Santa Fe Dr AL 5-7192
 *Koether-Cox Co 110 W 13th Ave BR 3-3544
 *Kittleson Co 1460 Penna St Rm 7 AD 5-2777
 Lahaia & Assoc 1886 S Broadway PE 3-3791
 Landes Zachary & Peterson 275 Kalamath St
 *McLoud & Raymond Co 5403 E Evans Ave SK
 6-1589
 Mark Lee Assoc 1660 Gilren St
 Mountain States Machinery Co 1526 Blake St CH
 4-7421
 Nelson Co A J P O Box 5502 1639 Blake St
 *K E 4-6751
 *Pearson & Co Mel 1011 S Josephine St SP
 7-7878
 Pease Co Fred A Rm 409 Terminal Bldg Stapleton
 Airfield FR 7-2336
 Peterson Co 4949 Colorado Blvd DE 5-434
 Rocket Components Co 1988 Nome St
 *Scientific Instrument Co 1460 Penna St
 Slaybaugh Thompson Co 100 W 13th Ave AC
 2-5826
 Smith Longstreet 1013 15th St
 Southwestern Eng'g & Equip Co 529 E Ohio St
 Spicer-Lindsay Assoc 2475 W 26th Ave
 *Swan Edward Co 232 Dahlia St EA 2-4718
 *Vines & Co P O Box 1025 1442 Clarkson St
 *Williams Co Allen I 124 W 12 Ave WA 3-0343

ENGLEWOOD
 Airsupply Co 305 1st Nat'l Bank Bldg SU 9-0591
 Gates Franklin Y 4910 S Huron SU 1-8566
 LITTLETON
 Price Engr Sales Assoc 4611 Homestead
 LOVELAND
 Kelly Elton K 336 E 4th St NO 7-1376

Connecticut

ANDOVER
 *Seyd E K Long Hill Rd PI 2-6604
 BRIDGEPORT AREA
 Janic C L P O Box 764 (Old Greenwich)
 *Nief Assoc Paul 15 Oak St (Westport)
 *Perron & Co Inc Ray 36 Louis St (Trumbull)
 Rackstahl C E Jr (Wilton)
 Richard W J P O Box 493 (Milford)
 *Sturgeon Inc Paul R 189 Broad St TR 4-4080
 (Milford)
 Vizard E R & Co 5900 Main St FO 8-2535
 (Trumbull)

Wells Nelson 15 Chatham Dr (S Norwalk)
 Yewell Assoc Inc 1101 E Main St FO 6-3456
CANAAN
 *Hathaway Electronics Glenn M Box 797 Duccillo
 Bldg TA 4-7215

COVENTRY

Robinson Robert M P O Box 157 PI 2-7323
HARTFORD AREA
 Bahr Sales Co Red Oak Hill Rd (Farmington)
 *Coldwell M 289 Fairfield Ave JA 2-5832
 Dittman & Greer Inc 33 Pleasant (Middletown)
 Gourlie Co W H 62 La Salle Rd AD 2-9536
 (W Hartford)
 *Hatten Co Arthur T 1000 Farmington Ave (W
 Hartford) AD 3-3613
 *Kosowicz Francis G 2 Madsen Rd (W Hartford)
 *Lavin Assoc Henry P O Box 196 (Meriden)
 BE 7-5527
 Peters Joseph Birch Dr ED 9-6643 (Easton)
 *Pettigrew & Co R S 10 N Main St AD 3-8533
 *Stockwell Technical Sales 121 Loomis Dr AD 3-
 5059 (W Hartford)
 Walworth Controls Co 131 Main St (Rocky Hill)
 *White Sales Co 39 Mildrum Rd BA 4-0423
 (Berlin)
 Zaslow Joseph 108 Foxcroft Rd (JA 3-7394
 (W Hartford)

NEW HAVEN AREA

*Boeing Co John E 265 Christ St ST 7-0115
 *Broger Inst Sales 42 Church St SP 7-6279
 Eltron Eng'g Sales Co 2345 Whitney Ave AT 8-9276
 (Hamden)
 *Feldman Assoc Gro 523 Norton Pkwy SP 6-7843
 *Gerber Sales Co 42 Church St SP 7-6279
 Reiss Robert 70 Jesse Dr
 *Whitehead Jr Assoc R H 57 Whitfield St GL 3-
 3762 (Guilford)
STAMFORD
 *Electronics Assoc Inc 200 Fifth St DA 4-7300
 Hoffman H L & Co 79 Prospect St
TOLLAND
 Stockwell Technical Sales Co Box 118

Delaware

NEWARK
 *Carmine Ferrell S 14 Knickerbocker Dr EN 8-7603

District of Columbia

WASHINGTON
 Brimberg Associates 312 Investment Bldg DE 2-
 8900
 Brill T C 1500 Massachusetts Ave NW Co 5-2694
 *Burlingame Assocs 8218 Wisconsin Ave OL 4-6400
 Camcron Peter C 1145 19 St NW
 Campbell James T 1026 17 St NW RE 7-2246
 Electronic Specialties Co P O Box 5516
 Norman Associates 2017 S Street NW DE 2-5705
 Israel Fred 734 15 St NW 500 Walker Bldg
 Jodon Inc Francis R 8510 Beech Tree Rd DL 2-
 4406
 *Massey Assocs 1 Thomas Circle NW hA 8-1957
 Rosenberg Co Arnold 733 15th St NW
 Shamp Scientific Supply Co Suite 15 1500 Massa-
 chusetts Ave NW HU 3-4167
 Soraghan & Assoc Joseph C 1612 Eye St NW
 *Whitfield James W 6006 Ononodga Rd EX 3-5640

Florida

CASSELBERRY
 *Atcheson & Adams Box 105 Fern Park P O
 WI 27-2562
 Johnson Assoc of Florida P O Box 1676
CLEARWATER
 Galleher J J P O Box 1376 617 Cleveland St
 CL 3-7706
 *Wimberly Co Ben 39 North Pine Circle CL 3-7072
CODA BEACH
 DBM Research Corp Stoddard Bldg Atlantic Ave
 CO 2438
 Specialized Equipment Corp P O Box 323 CO-3328
FORT LAUDERDALE
 Smith W Chester 207 E Broward Blvd JA 4-7172
FORT MEYERS
 Lynch Arthur H Assoc 35 W Shore Ave ED 2-1109
INDIALANTIC
 Vanguard Assoc Fifth Ave
INDIAN RIVER CITY
 Browne & Assoc Inc W A 201 Capron Rd TI-1086
JACKSONVILLE
 *Barnhart L E 1003 Gunba Road RA 4-0987
 Col-Ins-Co 317 Forsyth St
 Ward Eng'g Co Inc 2727 Phyllis St EV 8-7656
LUTZ
 *Wallace Assoc Inc Stanley K P O Box 67
 WE 9-3241
WAITLAND
 Vanguard Assoc Inc Box 280 Route 2
MELBOURNE
 Hardy Assoc Norman 444 2nd Ave
 Vanguard Assoc Inc PO Drawer 1418 ME-2536
MIAMI
 Anson Flyer Co 5804 Sunset Dr MO 6-6171
 Gearhart Co 9731 Dominican Dr Cutler Ridge
 PE 7-9177
 *Hemminger Wm F 619 N E 78th St PL 9-0300
 *Wollingsworth & Still 440 N W 35th St 9-5260
 *Nickerson Co Frank C P O Box 2 Little River
 Sta PL 1-4692

REPRESENTATIVES ("REPS.")

Reeco Sales Box 1164 401 N W 71st St PI 4-2087
 Shaw Hardy Co 846 Ingraham Bldg FR 4-8342
 Ward Eng'g Co Inc PO Box 11 Gratiigny B-
 MU 8-5924

Winfield Electronic Sales 666 Northeast 125th St
MIAMI BEACH
 BENZ Sales Co P O Box 178
 *Gardner Co Jack 823 86th St UN 6-6664
 Hayden Paul Assoc 821 82nd St
 Jose Gus Box 208

ORLANDO
 Binns & Caldwell Inc 1226 E Colonial Dr CH 3-
 1091
 Buchanan D B 1226 E Colonial Dr GA 3-8995
 Holliday-Hathaway Inc 3815 Mockingbird Lane
 GA 3-8298
 Holmes & Assoc E G 1220 Edgewater Dr CH 1-2128
 Johnson Assoc 521 Elwell St S-1536
 *McCovey V Avis 2117 Striker Ave 2-4117
 Murphy & Cota 1220 Edgewater Dr DR 4-2167
 Phelps Don 1401 Ceylon Dr
 Small C B P O Box 1346 4-2271
 Wallace Assoc Stanley H 5525 Embassy Dr OR 4-
 0294
 Ward Eng'g Co Inc P O Box 5545 GA 3-9721

ORMOND BEACH
 *Smith Co Mailand H 322 Riverside Dr OR 7-
 2298

PINELLAS PIKE
 George J W Box 429

SARASOTA

*Scriven A E P O Box 4572 RI 4-5431

TAMPA
 *Cartwright & Bean 4525 S Lois Ave 62-0111
 Jensen Assoc Box 13317
 *Wallace Assoc Stanley K 207 W Alfred St 24-
 4221
 Woodman Inc B S P O Box 10096 62-1152

WINTER HAVEN
 *Taylor Co Inc Morris F 940 Lake Elbert Dr
 CV 4-2941

Georgia

ATLANTA
 Avronic Accessory Co Inc 3179 Maple Dr
 Aminco Sales Co of Ga 1233 Healey Bldg
 Applebe-Church Inc 1100 Peachtree St N E
 TR 5-7244
 Binns & Caldwell Inc 3133 Maple Dr N E CE 3-
 7522

Burwell Co Henry W 422 Ponce De Leon Ave
 N E TR 4-2122
 Carterley W R 1000 Peachtree St N E TR 6-8833
 *Cartwright & Bean Co 3224 Cainhill Place CE 7-
 2273

Control Equipment Co 3240 Peachtree St N E
 CE 7-1688
 Davis Frank B 708 Spring St N W TR 5-2278
 *Duchett Sales Grady 26 E Andrews Dr N E
 CE 3-5308

Electrical Insulation Suppliers Inc 500 Mean N W
 Engineering Assoc Inc 3230 Peachtree St N E
 CE 7-3944
 *Fausett & Co F 777 Pinehurst Terr S W PL 5-
 5781

Gearhart Co Gearhart Bldg CE 3-4431
 *Hart Eng'g & Sales 651 10th St NW TR 4-5667
 *Hollingsworth & Still 508 Whitehead Bldg MU 8-
 5878

Holmes Assoc E G 390 Pharr Rd N E CE 7-7801
 *Joyner Assoc J E 2258 Cascade Rd P O Box
 10821 PL 5-4336
 King Inc J D 1004 Hemphill Ave
 Low Co W A 1211 Sheridan Rd N E

*Miller James Assoc 1036 Peachtree St N E TR 6-
 0919
 *Murphy & Cota 2110 Peachtree Rd N W TR 3020
 *Nickerson Co Frank 1150 Zonolite Rd N E
 TR 5-8908

*Pepper & Assocs John B 1429 Peachtree St N E
 TR 4-8266
 Scientific Sales Eng'g Co 2162 Piedmont Rd N E
 TR 5-7291

*Smith Co Mailand K 208-14 St N W TR 5-8031
 Specialized Equipment Corp 254 E Paces Ferry Rd
 CE 3-5858
 Thornwell Inc E A 1537 Howell Mill Rd N W
 TR 5-7895

*Wallace Assoc Inc Stanley K 2151 Beecher Rd
 S W PL 3-8463
 *Wallace Assoc Inc Stanley K 1608 Willis Rd
 S W PL 5-5973
 Woodman Inc B S P O Box 1057 TR 2-5395

DECATUR
 *McCovey V Avis 215 Church St DR 7-6167

E POINT
 *Hayden Assoc Paul P O Box 331 PO 7-9646

ELBERTON
 *McCovey V Avis 211 Highland Dr 1390

Illinois

CHICAGO AREA
 Anderson & Assoc Inc Burl 6835 W Higgins Ave
 *Angel & Co Jay E 2743 W Peterson Ave UP B-
 0653
 ATC Inc 3220 N Harlem Ave NR 2-1183
 Bauman & Bluzat 2753 W North Ave MU 6-6809
 Bauman Sales Co Robert H 210 S Lodge Lane
 LO 18 (Lombard)

*Beier Co R W 6518 W North Ave BE 7-2420
 Bierhaus-Balhorn Sales Inc 5967 W Madison St
 *Blaker Co S C 2353 N California Ave AW 2-3727
 Bluzat Co Rene 30 35 N Laramie Ave PE 5-2238
 *Booth & Assoc Claude 4000 W North Ave CA
 7-2810

*Brouillette & Assoc W G 5049 Quincy St MA 6-
 0499
 *Bruning Co A H 2215 W Wilson Ave ED 4-0989
 *Burgoyne Wm E 7001 N Clark St 4-05-2112
 Cairns Sales Co 3020 N Cicero SP 7-4022
 *Cappels & Assoc 2004 W Devon Ave
 Carlson Electronics Sales 6777 N Northwest High-
 way NE 1-8646

*Chambers Co L A 5906 W North Ave TU 9-4884
 *Cleary Co Gene T 435 Indian Wood Blvd SK 5-
 8359 (Park Forest)
 *Cole Co G 6514 W Higgins Rd SP 4-3535
 Comet Corp 540 Lakeshore Dr
 *Cozens Co Warren B 845 Chicago Ave DA B-8800
 *Crossley Assoc Inc 2711 W Howard St SH 3-
 8500

*Cumming & Assoc Bruce 6029 Belmont Ave ME
 7-3770
 Cunningham W L 435 Addison Ave (Elnhurst)
 TE 2-0905

*Diethert Co Russ 2030 Montrose Ave LO 1-1281
 Dolin Sales O 3553 W Peterson Ave 'U 3-3738
 *Doyle Co Wm J 7002 N Western Ave PO 1-3110
 *Eilinger Sales Co W H 6571 4 Olmsted Rd 3-4154
 *Eilinger Sales Corp 6540 Northwest Hwy RO 3-
 1570

Ellis Co Arthur J Cuneo Bldg 1607 W Howard
 St AM 2-2708
 Eng'g Sales Co 3592 Milwaukee Ave PE 6-0555
 Epcu Services 116 S Michigan Ave ST 2-6486
 Falenberg Lee 1665 N Milwaukee Ave
 *Farnsworth Assocs 228 N La Salle St ST 2-6673
 *Felleisen Assors 5841 Montrose Ave SP 7-1060
 Ferguson Hille & Assoc 542 S Dearborn St WA 2-
 1808

*Friedman Co M L 2814 W Balmoral Ave LO 1-
 4257
 *Gassner & Clark Co 6644 N Western Ave RD 4-
 6121
 *Gebhard Co Harry W 5129 W Devon Ave RD 3-
 3636

*Gollen Co Jerry 2750 W North Ave EV 4-5959
 *Green & Assoc Loren F 5218 W Diversey Ave
 PA 5-6824
 Grotz & Assoc Anthony N 5809 W Desietrofe
 Hadjuk Edward C Co 5150 N Mulligan Ave RD 3-
 8445

*Haines E Ralph 949 Lake St (Oak Park) EU 6-
 4476
 *Halinton Co Harry 5500 W Devon Ave PO 3-2137
 *Haskill J G 202 N Marion (Oak Park) FU 6-5741
 *Hauslein Ch David 607 E Willow Ave (Wheaton)
 WH 8-7332

Member Assoc Inc 1554 Howard St
 *Higgins Co Royal 10105 S Western Ave ED 3-7388
 Hill & Co Inc J C 549 W Washington AN 3-6420
 *Hill & Gray Inc 411 1/2 Harrison St (Oak Park)
 ES 8-7050

Hunter T B 4441 W Irving Park Rd SP 7-2500
 *Hutmacher Assoc Inc Ray R 6647 N Oliphant
 Ave NE 1-3248
 Jentum Assoc Fred A 510 N Dearborn St SU 7-
 3809

*Kadell Sales Assoc Inc 5875 N Lincoln Ave LO
 1-3042
 *Karet-Margolin Inc 13 W Hubbard St WH 4-6345
 Kelburn Eng'g Co 3136 Clarence Ave (Berwyn)
 ST 6-6485

Kemp Manning Sales Co 6571 N Olmsted
 Kennedy Co Robert J 6713 N Olmsted Ave
 *Kleker Co Jerome H 177 Sunset Ave (Glen Ellyn)
 GL-2297

Knaqos H W Co 7503 Melba Lane (Belleville)
 EX 7-2398
 Knob Lock & Malone 1603 N Newland NA 2-4005
 Kohn Electric Sales Co Inc Harry J 1523 W
 Adams St MO 6-5315

*Kopetzky K A 13 W Hubbard St MI 2-2679
 *Krueger Co R 5306 W Lawrence Ave PE 6-3107
 *Lang Robert L 6733 W Olmsted Ave SP 4-3610
 *Langhaus-Levy Assoc 5323 Cottontail Grove Ave
 *Levin Sachs & Assoc 2949 W Touhy Ave RD 4-
 7082

*Lewis & Trimble Inc 5509 N Menard Ave
 *Linz William M 6322 N Cicero Ave MU 5-2022
 *McBride Sales Co 1 J 328 E Burlington St
 (Riverside) RI 7-8131

McCarthy L C 7117 Addison St KI 5-7972
 Magnus E D 188 W Randolph FR 2-8785
 *Manusson Assocs 3349 W Irving Park Rd KE 9-
 7555

Marsh Walter 308 N Scoville Ave (Oak Park)
 *Marshall & Co Hugh 6699 Lincoln Ave DR 6-1100
 *Mematic Sales Co 4740 N Austin Ave KI 5-1033
 Meyers Kenneth W 1 S Northwest Hwy (Park
 Ridge) TA 3-3174

Newman-Krause Co 5461 W Lawrence Ave
 *Pettit & Co George 349 N Ashland Ave (River
 Forest) FO 9-8940
 *Pivan Eng'g Co 2820 Peterson Ave BR 4-9135

*Quakenbush Al 605 N Michigan Ave MO 4-1934
 *Quick Howard L 1241 Loyola Ave RD 1-0960
 Rick & Selles 549 W Washington Blvd
 Ridgway Eng'g Inc 6100 W North Ave SP 7-4526
 Ridley Assoc 1551 N Austin Blvd TU 9-2940
 *Ritter Sales Co 5839 W Montrose Ave MU 5-7440

*Rose & Co J K 2323 W Devon Ave AM 2-5584
 Rose Co J K 1116 Linden Ave (Highland Park)
 Roussey R F & Co 426 Edgewood Pl (River Forest)
 Rozner & Renaldi Sales 4708 N Central Ave
 *Saffro & Gettleman Co 5209 N Kimball Ave
 JU 8-0905

*Sarkis & Co Henry D 5608 N Western Ave AR 1-
 3774
 *Schubert Arthur J 8044 Kildare Ave (Skokie)
 OR 3-7823

Smith Co Oren H 221 West Huron St SU 7-7919
 *Stemm R Edward 5681 W Lake St ES 9-2700
 *Stemm Royal A 21 E Van Buren St WE 9-4830
 Tatro Frank B 6022 N Rogers Ave KE 9-4535
 *Twintronic Sales Co 2114 W Carroll CH 3-1622
 *Twist John G Co 5232 W Diversey Ave SP 7-2250
 Victoria Sales Co 600 Waukegan Rd (Glenview)
 *Warner Dayton L 15423 Honore Ave (Harvey)
 ED 1-6247

*West Jack 6747 N Octavia Ave RO 3-3500
 Whitmore Assoc R C 605 N Michigan Ave MO 4-
 1904
 Withers & Rocek Co 5439 W Division St AU 7-
 7292

*Wiley Co Samuel J 2523 N California BR 8-1220

ROCK ISLAND
 Berg Co J F P O Box 52 RO 3-1916

Indiana

ANGOLA
 *Clancy Co J J P O Box 269 '93
 Law Instrument Co Box 95 AN-217
 Southern Sales Co P O Box 105 777

FORT WAYNE
 *Bieberich Walter W 2817 Plaza Dr KE-2928
 Frederick Co R G 1601 Hanna St
 *Hoffey Ralph J RR 1 Coldwater Rd
 *Hoening Sales Co Butler CI AN-2083
 *Homsber Burt F 2018 Jessie Ave EA-1920
 *Mathews Robert T 2527 Westbrook Dr AN-3035
 *Meily Co W A 4017 S Harrison KE-2461
 Needer E S 5302 Fairfield Ave
 *Paul Sales Co 2609 Broadway
 *Southern Sales Co 1605 Lincoln Tower AN-5278
 Tyler E B 2618 E Drive
 *Valentine Inc Forrest C 511 St Wayne Bank Bldg
 AN-9122

INDIANAPOLIS
 *Baatz Sales Co 5943 Shimer Ave FL G-0326
 *Blind & Co Harrison J 1508 Winton Ave CH 4-
 0191
 *Crandall & Assoc R M 6220 E 56th St LI 6-8373
 Crossley Assoc Inc 5420 N College Ave CL 1-9255
 *Dvoce Co Leslie M 4010 Washington Blvd AT 3-
 1395

*Fishman Assoc 1440 N Cambell LI 6-5477
 Grantland & Assoc 911 N Pennsylvania ME 3-4871
 Guimont Co R L 2037 E 46th St CL 1-9261
 Law Instrument Co P O Box 6562 ST 7-0009
 *Marnab Schroeeder & Loomis 820 E 64th St
 BR-6770
 *MacPherson-Thomas 5226 N Keystone Ave CL 1-
 6915

*Marshall & Co Hugh 920 N Tacoma Ave ME S-
 2253
 Moore A D 420 Chamber of Commerce Bldg ME 4-
 6331
 *Morris Cunningham & Mitchell 6101 College Ave
 CL 1-3222

National Eng'g Co 5775 Hillside Ave CL 1-1132
 *Reinhardt Co Kenneth G 1719 E 52nd St UN 2-
 4001
 Ridgway Eng'g Inc 1606 N Illinois St
 R O C Assoc 54 W 30th

Rockwell Eng'g Co 2121 E 45th St CL 1-9453
 *Schultz Co Edwin A 721 Sherwood Dr CL 5-1993
 Selsor & Blind 1508 Winton Ave CH 1-0191
 Scheffler Co Charles 3929 Barnor Dr LI 7-7010
 Thomas & Sukup Inc 5226 N Keystone Ave CL 1-
 6915

*Whitesell & Assoc R O 6620 E Washington St
 FL 9-5374
 Wright Eng'g Corp P O Box 7837 4241 Melbourne
 Rd WA 3-8888

MARION
 *Husser Victor 608 W 2nd St

MARKLE
 *Williams A E R R I

Iowa

CEDAR RAPIDS
 Eng'g Services Co 3724 Kentrest Drive N E
 Harris & Co Inc G E 525 Merchants National
 Bank Bldg EM 2-6302
 Hersey J T 2120 Greenwood Ave S E
 *Vrbil Jerry 615 Guaranty Bank Bldg EM 4-0833

DAVENPORT
 Volco Co 215 Kahl Bldg 3-2144

DES MOINES
 Deco Eng'g Prods 1112 Locust St AT 8-5721
 *Kay Sales Co 2702 41 PI BL 5-4584

MARION
 *Bettis Maury E Co 1575 Henderson Dr 1694

Kansas

KANSAS CITY
 *Kathrinus & Co Norman W 1409 Southwest Blvd
 JO 2-4108

MERRIAM
 *Koenig Sales Co 6359 Antioch Ave HE 2-3166
 *Zimmer Sales 5620 Woodward Ave HE 2-1121

REPRESENTATIVES ("REPS.")

MISSION

Malgin Sales 5920 Nall Ave Rm 311 RA 2-2441
 *Inland Assoc 6047 Howe Dr EN 2-2366

OVERLAND PARK

*Terwilliger Sales Co 7133 W 80th St NI 2-2421

PRAIRIE VILLAGE

Benson Engineering Co 2902 W 72 Terr

SHAWNEE

*Goll W E 10511 W 56th Terr RA 2-2528

WICHITA

Airsupply Co 2725 E Kellogg MU 3-7518
 Associated Industries 455 S Washington
 Benson Engineering Co 519 S Broadway
 *Bettis Maury Co 508 North Belmont MO 6-7441
 *Engineering Assoc Inc 519 S Broadway AM 5-6271
 Eng'g Services Co 618 Geo Washington Blvd AM 2-6516
 Harris & Co Inc G E 3241 E Douglas Ave MU 3-9226
 *Industrial Assoc Electronics 723 S Broadway AM 5-2567
 Kemco Inc 6427 E Kellogg
 Lind Don R 135 N Terrace Dr MU 3-5110

Kentucky

LOUISVILLE

*Billray Organization 3615 Brownsboro Rd TW 5-6369

Louisiana

BATON ROUGE

Gay Sales Co Assoc P O Box 2905 7-2423

KENNER

*McKinney Sales Jack F 925 Fairway KE 4-5869
 New Orleans
 Bonemman Walter E 4719 Cartier Ave FA-2504
 Huey W S 202 Board of Trade Annex TU-0409
 Jones-Philbert & Co 358 Saussure Rd KE 4-2765
 Keller W J 415 Natchez St MA-3603
 *Long & Wallick Assoc Inc 1544 Wakefield Pl FA-3657
 Maguire Co J P 3144 Paris Ave EV-2392
 Mid-South Sales Co 4424 B Earhart Blvd P O Box 13032 TU-4683
 *Moore Co Earl K 5864 Louisville St AU 2407
 Reed C Lyman 1001 St Charles Ave RA-7247
 *Redman Stephen M 2322 Valmont St TW 9-4531
 *Texport Co 611 Grove St KE 4-4935

Maryland

BALTIMORE

Aironic Accessory Co Inc P O Box 6863 2B Allegheny Ave VA 3-0813
 *Biops Co Inc J Alan 31 East 21st St BE 5-0575
 *Cerr & Co Art 6302 Lincoln Ave RD 4-7189
 Daniels Co L J 1622 Mathieson Bldg PL 2-7694
 *Drew & Co Wm 3900 Primrose Ave MO 4-2695
 Durling Electric Co 301 E 25th St HO 7-5560
 Eberle-Schaar Co 425 Stratford Rd WI 7-3227
 Engineering Assoc 3120 St Paul St
 Goodman & Assoc Geo 103 E 25th St BE 5-5570
 Goodman Co S W 32 W Biddle St VE 7-2240
 *Hoffman Co Inc H L 310 E 25th St BE 5-8073
 Norman Assoc 635 St Johns Rd HO 7-2290
 Lee Assoc S S 630 Warwick Rd CI 2-3151
 *MacDonald Inc S K 2016 Winford Rd ID 5-1760
 Naudain Parker L 153 Brandon Rd VA 5-5492
 *Randall Co Ken 1303 Midvale Ave RI 7-5260
 Sheffer J W 4605 Old Frederick Rd
 Taylor Eng'g Inc 2100 St Paul St BE 5-9126

BETHESDA

Mathias R T 7240 Wisconsin Ave OL 6-4833

LUTHERVILLE

*Snow Co C E 8218 Wisconsin Ave DL 4-1767

ROCKVILLE

Gebhardt Paul B 306 Lincoln Ave

SILVER SPRING

Ansell Eng'g Co 11212 Grandview Ave
 EFI Agency 8416 Georgia Ave JU 5-3141
 *Gawler-Knoop Co 8782 Flower Ave JU 5-7550
 *Lienau Co C W 9427 Georgia Ave JU 5-5888
 Paddock C F 8616 Georgia Ave
 *Taylor Co Morris F 9431 Georgia Ave P O Box 111 JU 9-4002
 White & Co Inc L G 8416 Georgia Ave JU 5-3141

TOWSON

*Barnhill Assoc R B P O Box 6892 VA 5-3431
 Bittner Co J F 1814 Deveron Rd
 Closs Co Thomas H 21 W Penna Ave VA 5-4445
 Electronic Sales Co J H Box 6844
 Habco Electronic Sales 603 Allegheny Ave VA 5-9637
 J-H Electronics Box 6844 VA 5-4441
 Jones W M 1107 Echo Court N VA 3-2434
 *Maguire & Co J A 29 Allegheny Ave VA 5-3836
 Valley Electronics Inc 1735 E Joppa Rd VA 5-7820
 Wilkinson Co Robt L 707 Stevenson Lane VA 3-7800

Massachusetts

BOSTON AREA

*Abbott B Hustis 16 A Eaton Sq (Needham) NE 3-5470
 *Aberoyd Co Arthur John Hancock Bldg MA 6-2433

*Anderson Sales Co 177 State St CA 7-2980
 *Boeing Co John E P O Box 186 (Arlington) MI 8-2900
 Boeing Co John E P O Box 235 (Lexington) VA 2-2550
 Bordewick Engr Sales Co 221 Grove St VI 3-0845
 *Bridgeway Ray Co 100 Memorial Dr (Cambridge) UN 4-2696
 *Bridge Co Ray 99 Highland Ave (Somerville) UN 4-3696
 *Broger Instr Sales Co Inc 48 Pearl St (Brookline) BE 2-4804
 Brookdale Eng'g & Services 6 Beacon St
 Brown Kenneth L 54 Atherton Rd BE 2-3969
 *Burlingame Assoc 905 Main St (Waltham) TW 4-1955

*Chamberlin Harold A Civilian Air Terminal Bedford Airport (Bedford) CR 4-0040
 Coakley Sales Office 148 Needham St DE 2-4800
 Cole Lawrence B 21 Radcliffe Rd (Weston) CE 5-2165
 Connelectronics Co 669 South Ave (Weston) CE 5-2165
 Cowgorthwait & Broadhead 126 Gould St (Needham Heights) HI 4-9410
 Cohen Saul Box 35 (Newton) OL 3-6510
 *DeVeer 82 Broadway Ave (Cambridge)
 *Eastern Electronics Sales 145 University Road (Brookline) CH 3-0373

Electrical Apparatus Co Inc 1200 Soldiers Field Rd ST 2-7440
 *Electronics Assoc Inc 14 Wedgewood Rd (Natick) OL 3-6510
 *Elton Eng'g Sales Co 246 Walnut St (Newtonville) DE 2-6975
 Entis Assoc 11 Babcock St (Brookline)
 *Gerber Sales Co 48 Pearl St (Brookline) BE 2-2425
 Goldman Bill 145 University Road (Brooklyn) Gode Assoc John 65 Eliot St (Ashland)
 *Goss Co Jack 99 Highland Ave (Somerville) PR 6-2262
 Gray Inc Robert W 572 Washington St (Wellesley) WE 5-5296
 Greene Organization Inc Dan P O Box 124 UN 4-2220
 Gregory Assoc Geo 99 Elm St (W Newton)

*Gysan Co Richard L Foster St (Wenham) MA-0940
 *Hankins Doid T 159 Huntington Ave CM 6-4041
 *Harris Stanley A Co 317 Chestnut St (Needham) NE 3-4780
 *Hathaway Electronics Inc 238 Main St (Cambridge) KI 2-0380
 *Hendrickson W A Co 291 First Parish Rd (Scituate) SC-562
 Hooker Inc Samuel C Prospect St (Marshfield Hills) MA-1189
 *Hubert Al 130 Westbourne Terr (Brookline) BE 2-7525
 *Instrument Assocs 1315 Massachusetts (Arlington) MA-1189
 Jansse Assoc E A 354 Washington St (Wellesley Hills) WE 5-1623
 Jappe Howard 37 Hilcrest Rd (Wakefield)
 Jones Owen C Co P O Box 151 (Wellesley Hills)
 *Kelly & Co Wm T 77 Lovell St (Beverly) WA 2-0065
 Lanman Sales Co Ardlock Pl (Webster) 1727
 LeBlanc Sales Co Cirolia 875 Main St (Waltham)
 *MacArthur Robert S 211 Beech St (Belmont) IV 4-4613
 MacInnis Norman R 53 Youte St (Melrose)

Miller Assoc Inc Seward 1000 Great Plain Ave (Needham) HI 4-0025
 Morse J F 1374 Massachusetts Ave (Cambridge)
 *Mosher & Peyser Co 945 Great Plain Ave (Needham) HI 4-1400
 Muddle John V 509 Worcester Rd (Framingham)
 Paloca Wayne B 800 Atlantic Ave
 Parker B H 610 Atlantic Ave
 *Perron & Co Inc Ray 1870 Centre St FA 3-1008
 *Pettigrew & Co Inc R S 45 Main St (Natick) OL 3-6480
 Pettigrew Assoc J 385 Concord Ave (Belmont) IV 4-9220
 Pierce Stanley 583 Neponset St (Norwood) 7-3164

*Pray Sales W B 44 Washington St (Wellesley Hills) WE 5-5518
 Purinton Richard Inc 11 Muzzey St (Lexington) Representatives Corp The 10 High St HA 6-0541
 Sales Eng'g Co 29 High St (Chelmsford)
 *Scott Co Michael 90 Edmunds Rd (Wellesley Hills) WE 5-0102
 *Segel Co Charles 1262 Commonwealth Ave BE 2-2555
 *Segel Co Henry P 386 Washington St (Brookline) BE 2-7525
 Shufit Co The Howard 815 Washington St (Newtonville) LA 7-5304
 Smith & Purdy 944 Main St (Walpole) MO 8-2460
 Stein Inc A D 800 Federal St HA 6-7272
 Stevens K C 235 Bedford St (Lexington) VO 2-1812
 *Stockwell Technical Sales 205 Broadway (Cambridge) TR 6-5115
 *Sturgeon Inc Paul R 25 Huntington Ave CO 6-7705
 Sullivan Michael H 1519 River St
 Technical Instruments Inc 90 Main St (Reading) RE 2-3930

*Waters & Drew Inc P O Box 467 (Bedford) CR 4-7322
 *White Sales Co 945 Great Plain Ave (Needham) NE 3-3676
 Whiteside The Fred Corp 10 High St
 Willson Jack E 56 Beach St (Marblehead)
 *Yewell Assoc Inc Middlesex Turnpike (Burling) BR 2-9000

HAMPDEN
 Rodgers Assoc Chapin Rd RE 3-8428

Michigan

DETROIT AREA

*A B M Sales Co 10116 Puritan Ave Detroit 38 Mich UN 2-1300
 Aironic Accessory Co Inc 19971 James Couzens Highway
 Barnum H H 12201 Merriman Rd (Livonia) KE 1-7504
 Basic Service Corp The 16544 Plymouth Rd VE 7-8820
 Becker E V M 12243 Twelfth St
 Beitel Wayne 13209 Fenkel Ve 8-9100
 *Burcaw & Co K C 22128 Grand River Suite 207 KE 3-7700
 *Butchart Co Rod 11327 Stockwell Ave LA 6-6551
 *Central Electronics Sales Co 19303 Fairport LA 6-5841
 Clark Nelson J 17136 E Warren Ave
 Colley & Schlee Inc 24681 Telegraph Rd EL 6-7200
 Conrad Co W B 13438 Fenkel Ave
 Danemiller Assoc Inc J R 1204 N Woodward St (Royal Oak) LI 8-4440
 Dymal & Girb Assoc 10600 Puritan
 *Electro-MecAssoc 109 E Nine Mile Rd (Ferndale) LI 7-1422
 Electro-Mec Assoc 4012 E Nine Mile Rd (Hazel Park) JE 6-4040
 Electro-Rep Div 22519 Telegraph Rd
 Ernest Assoc Ralph D 12818 Puritan Ave UN 1-7511
 Grant & Shaffer Co 14241 Fenkel Ave BR 3-5390
 *Great Lakes Representatives 5770 Artesian LU 4-2918
 Haber Co George 20424 Danbury TW 1-8080
 *Henschen Jensen & Co Curtis Bldg 2842 W Grand Blvd TR 1-0308
 Hewitt Robert 24640 Rockford Ave (Dearborn)
 Holton Sales Co 21373 Stahelin
 Kent Co 322 Northwood Ave (Rochester)
 *Koehler-Pasmore Co 11833 Hamilton TD 3-3322
 Kurtz Co Paul 7457 Fenkel Ave TY 4-3074
 *Lee Wm S 13215 Fenkel Ave BR 2-0606
 *Liddle Edwin F 18925 Grand River Ave VE 7-5310
 *Lohmann Co 13331 Livernois VE 3-1128
 Merchant & Co Inc R C 18411 W McNichols Rd KE 5-6000
 *Misk Co Robert 19763 James Couzens Hwy BR 3-3652
 *Moore Sales Co 401 Margaret W TU 3-0218
 Morrow Sales Jim 85 Louise Ave (Highland Park) TO 8-0649
 *Odell Co Inc P 10531 W McNichols Rd UN 2-1573
 Fierce Co J L 16666 James Couzens Hwy
 *Rathburg Assocs Jack 4140 Van Dyke Ave WA 1-3932
 R J Sales Co 19942 Inkster Rd
 *Rubin Ben Z 16222 Cheyenne Ave UN 4-4950
 *Satullo Co 4512 N Woodward (Royal Oak) JO 6-2375
 *Shaffer Co Grant 14241 Fenkel Ave BR 3-5390
 Shaico 23525 Woodward Ave (Ferndale) LI 7-4771
 *Sonnenborn Co Arthur B 19983 Livernois Ave DI 1-3000
 Spencer Willard Co 20158 Santa Rosa Dr UN 3-5189
 Sterling Co S 15310 W McNichols Rd DM 3-2900
 Teplitz & Co Harvey 19942 Inkster Rd KE 7-9058
 *Thorpe Jack M 640 Hidden Lane TU 4-4360
 Tibex Engrs 1822 James Couzens Hwy UN 4-9298
 Weston Jack 1035 Cedarlawn
 *Wool Martin 1328 Maxwell Ave (Royal Oak) LI 1-1192
 Wollong Co Vic Box 212 (Utica) RE 2-7815
 *Zaffina Co Lawrence F 7351 Gratiot Ave WA 1-2885

FLINT
 *Robbins Sam 230 E First St CE 5-7310

GRAND RAPIDS
 Roller Co Charles H 5249 Stage N W
 JACKSON
 *Jordan E H 2024 Glen Dr JA 2-0694

Minnesota

MINNEAPOLIS

*Anderson & Assoc 3825 York Ave N JU 8-2523
 *Bartleson Wm 330 Oak Grove Suite 502 FE 3-6709
 Bonnett Heyda 6101 Auto Club Road
 Clemens Co Wood 1645 Hennepin FE 9-0707
 Cupples Co R H 718 N Washington Ave FE 8-5661
 Elstad Sales Co Lester L 5910 Wayzata Blvd LI 5-4000
 Engineering Products Assoc 533 Metropolitan Bldg
 *Foster Co Mel 2402 Hennepin Ave FE 6-5622
 *Franklin Co Merrill 338 E Franklin FE 6-2315
 *Gibb Clark R Co 2400 Hennepin Ave FE 8-2550
 *Hageslad & Assoc E O 1717 The Mall

REPRESENTATIVES ("REPS.")

*Hamilton Co Don 2718 W 43rd St WA 6-2749
 *Heimann Co 1711 Hawthorne Ave FE 2-5457
 *Heyda Co B 6101 Auto Club Rd TU 1-9166
 *Hill Co Fred B 6110 Excelsior Blvd WE 9-6727
 Industrial Reprs Co 1362 Dakota Ave WE 9-2664
 *Kirkeby Marvin H 3500 France Ave S FR 7-3239
 Klass Co 814 S 9 St FE 8-8427
 *Laub Co Nick J 3749 W Broadway DR 7-7000
 *Marshall R W 6106 Excelsior Blvd WE 9-6444
 *Morsland & Co Hugh 231 N Edgewood Ave TA 2-7949
 May Co George C 3651 Cedar Ave PA 9-9347
 *Miller & Son Arch S 6009 17th Ave & R 6-6677
 Nells Kenneth 5380 Culver Rd JU 8-4804
 Nelson R W 500 Washington Ave N FE 3-7225
 *Northern States Sales Co 1400 Park Ave FE 6-3808
 *Ozman E W 12 E 25th St FE 9-3298
 Peterson Co Fred 2431 Hennipin Ave FR 7-3025
 Pimney & Hine Co 1925 Nicollet Ave FE 8-0523
 *Richardson & Co M M 9 E 22 St FE 6-4078
 *Ripley Ray 6937 Penn Ave S UN 6-8682
 Schultz Co O A 801 S East 8 St FI-7701
 Service Tool & Eng Co Sexton Bldg 529 S 7th St
 Smith Co Harry P 826-27 Andrus Bldg FE 5-8327
 Volco Co 831 S 6th St FE 6-3373
 *Warner Co A J 5022-29th Ave S PA 9-7371
ST PAUL
 *Cassidy Assocs Inc 842 Raymond Ave MI 6-7881
 *Engelbreton Co Wm 906 Ottawa Ave CA 2-2338
 *Gilbertson Co Dave 2295 University Ave
 *Hoffman Edward 1641 Scheffer Ave MI 9-3371
 Insulation & Wires Inc P O Box 3349
 Lundbeck Co R A 1900 University Ave MI 6-4523
 McGee Eng Co 2016 N Herschell MI 4-2767
 *Northport Eng Inc 1729 Selby Ave MI 6-2623
 *Ragon Inc R G 1406 W Idaho Ave MI 6-6937
JACKSON
 *Gregory-Salisbury & Co Inc 429 S West ST 5-8305

Missouri

KANSAS CITY
 Automatic General Electronic Sales Inc 6550-B
 Troost Ave DE 3-8206
 *Bellis Co Maury E Suite 711 406 W 34 St
 LO 1-0772
 Brandt E W 1337 Mission
 Campbell Co Kirk 1775 Locust VI 2-2315
 *Clemenson Co Robert 436 E 79 St JA 3-3005
 *Collins Assoc 6217 W 77 St NI 2-6153
 *Elliott Co Arthur H 211 Westport Rd LO 1-9594
 Engineering Services Co 4550 Main St JE 1-7765
 *Farris Co Inc R W 406 W 34th St LO 1-7495
 *Florence Co L 406 W 34th St LO 1-7828
 *Forristal-Young Co 4057 Broadway WA 1-5300
 *Fry & Co Inc W E 406 W 34th St JE 1-5236
 Glade Ives 1421 McGee St GR 1-1749
 Harris & Co Inc G E 701 E 63 St DE 3-9600
 Harris-Manson Co 7916 Pasco Ave HI 4-9494
 *Kay Sales Co 2600 Grand Ave BA 1-3800
 *Kelly Co W G 9106 Central EM 3-1207
 *McDowell-Redingschater Sales Co 1103 E Armour
 WE 1-5622
 McGrade Co E W Box 8876 Prairie Village Sta
 RA 2-0758
 Mark Asso Lee P O 3167 JA 1-9299
 *Moore Co Frazer O 106 E 14 St VI-3306
 Moon Sales G E 15 W 41st St
 *Myers & Assoc Zell 4538 Main St JE 1-7221
 *Roes & Co H R 201 Cherry St BA 1-0866
 Schmitz Co J O 406 W 7th St LO 1-9824
 *Scholz Paul G 213 W 8th St HA 1-7111
 *Schryver Sales Co Clyde H 8720 Norwood Dr
 MI 9-0875
 *Schwerin E B 4210 Main St WE 1-7564
 *Scmers & Co Fred 18 & Grande Ave GR-1355
 Wells-White Co 3937 Main St JE 1-6400
ST LOUIS AREA
 Automatic General Sales 8933 Kathlyn Dr HA B-
 3934
 Components & Equipment Co 501 Clark Ave (Webster
 Groves)
 Crandall-Ricker Sales Paul Brown Bldg
 Design & Sales Eng Co 25 N Meramec PA 1-6403
 Doran Co A W Medical West Bldg 950 Francis Pl
 Suite 217 (Clayton) PA 5-3377
 Eng'g Services Co 6635 Delmar Blvd VO 3-3661
 Fall Co C B 317 N 11 St CH 1-2533
 *Fixman Eng'g Co Gordon 8160 Stanford Ave
 PA 5-5219
 *Forristal-Young Sales Co 8147 Delmar Blvd PA
 5-7701
 *Fry & Co Inc W E 4278 Lindell Blvd JE 5-1434
 Gerber & Sons Ben H 6625 Delmar Blvd
 Groves Co Bruce 8701 Antler Dr VO 1-2205
 Hanson Harris Co 2814 S Brentwood Blvd MA 7-
 4350
 Harris & Co Inc G E 7811 Carondelet St VO 3-
 6550
 Hippler Sales Co 1135 Cheshire Lane (Webster
 Groves)
 *Kathrinus & Co Norman W 4356 Duncan Ave
 OL 2-7005
 Kay Sales Co 7603 Forsyth Room 206 (Clayton)
 *Knapp Co M W 621 N 1 St CE 1-1853
 Leaver Co C O 4030 Chouteau Ave JE 1-2040
 Lorenz Co Rudie 413 E Madison TA 1-4119
 *Lowell Theodore B P O Box 21 EV 5-7803
 *McGary Co Wm T 6635 Delmar Blvd PA 5-6430

McGrade Co E W 1111 S Brentwood PA 5-6650
 MacDonald & Co B C 3829 W Pine Blvd JE 1-9266
 Mark Assoc Lee 2683 Big Bend Blvd MI 7-1470
 *Maynard Co Lee W 139 North Central PA 5-3723
 Murly Edwin H 3505 Ridgedale Ave EV 5-7728
 Petesh-Kemp Eng'g Co 6414 Hampton Ave FL 1-
 McIntyre A M 8226 Buchanan HA 8-2942
 2175
 Pratt & Assoc Ryder 6520 Clayton Rd
 Ring Co F H 2030 Delmar Blvd
 *Roes & Co Herbert A 7120 W Florissant Ave
 CO 1-0055
 Sebright Russ D 7120 W Florissant Ave CO 1-0555
 *Shaw Robert 7800 Kendridge La (Webster Grov.)
 WO 2-4590
 Shekelton J F 5615 Tholozan Ave PR 3-3760
 Stahhut Robert B 320 Woodside Dr YO 5-4653
 Still Palmer 9415 Old Bonhomme W
 Tarter & Co 10633 Twilight Dr
 *Vignola Assoc Carmine A P O Box 569 (Jefferson
 City)
 Wells-White Co 6225 Delmar Blvd PA 7-7622
 *Winkler & Assoc M F 3938 Lindell Blvd OL 2-
 6455

Nebraska

OMAHA
 Bangh Conrad R 524 WOV Bldg
 Fuchs Machinery & Supply Co 2401 N 11 St
 Deto Eng'g Prods 214 S 20th St JA-4111

New Hampshire

SALEM
 *Limanni Michael A Bridge St TW 8-3588

New Jersey

NORTHERN NJ (See New York NY Area)
SOUTHERN NJ (See Philadelphia Pa Area)

New Mexico

ALBUQUERQUE
 Boech G A 810 Parkland Circle SE
 *Bowen Co RG 2228-A San Mateo Blvd AL 5-4603
 Brocks Feeger & Morrow 114 San Pedro S E
 8-1724
 *Carder Co John 1624 N 1st St P O Box 808
 CH 2-3501
 French Co Gene 120 San Pedro S E
 *Gates Co Franklin Y 122 Harvard Dr S E AL
 3-8010
 *Hyde Eng'g Assoc 220 Utah St NE 9-0721
 *Industrial Associated Electronics 419 Central Ave
 N W 3-3585
 *Kittleson Co 210 Cagua Dr N E 6-6987
 Landes Zachary & Peterson 1609 2 St N W
 *McClendon Co Robert E 3907 Central Ave N E
 AL 5-4983
 *Malley Co Frank P O Box 1764 AL 6-9211
 *Neely Enterprises 107 Washington St N E AL 5-
 5886
 Roberts & Assoc E V 5100 Grand Ave N E AL 5-
 2644
 *Rupp Co V T 8009 Bellamah N E CH 3-3585
 *Williams Allen I 3221 Silver S E 5-9632
LAS CRUCES
 *Neely Enterprises 126 S Water St JA 6-2486

New York State

ALBANY
 Carst Electric Corp 1044 Broadway 62-5364
 Hansen Sales Assoc 7 Norman Ave
 *Reagan Co J A 242 Hackett Blvd AL 8-5155
AMSTERDAM
 *Leroy & McQuire Inc RD No 4 VI 2-5979
BINGHAMTON
 Allen Inc Ned P O Box 175
 *Holiday-Hathaway Co Inc 94 Henry St BI 3-5177
 Johnson Agency H C 9 Ivan Lane 3-5889
BUFFALO
 Allen Inc Leonard D 1043 Walden Ave FI-6915
 Brown Co Vincent J 564 Ellicott Sq Bldg CL-1122
 Cardozo Harry H 4548 Main St CI-2243
 *Farber & Assoc Maury 70 W Chippewa St MO
 3-5434
 *Jackson Co Robert W 833 Ellicott Sq Bldg MA-
 3306
 Keller Industrial Prod 50 Kinsey Ave
 Lamb Co R F 1807 Elmwood Ave BE-3757
 Lane Eng'g 1807 Elmwood Ave
 Meyer Co John P O Box 3006 DE-5444
 *Mitscher Co R W 487 Ellicott Sq Bldg WA-2517
 Niagara Electric Sales Co 505 Delaware Ave SU-
 4000
 Prince Rubber Co 1675 Niagara St
 Wall Assoc 19 University Ave PA-0737
 Wink Willis 235 Hendricks Blvd
 Zang H C 29 Crestwood Ave VI-3677
CANANDAIGUA
 Ball Assoc Inc Marshall S Main St
DEWITT
 *Marron George The Killush Bldg SY 75-1686
 Rverson Assoc Inc J D 111 Kinne Rd GI 6-1771
 *Smith Peter F Box 301 S Morton Rd GI 6-2645
 *Taylor Co Frank W 205 Pelham Rd GI 6-3354
 Wulfeltange Jr J F 4505 E Genesee St GI 6-3330
ELMONT
 *Director & Assoc Murray 115-237 St CU 5-6823

FAYETTEVILLE

*Andrews Inc Martin P Mott Rd NE 7-6405
 Bruening Fred H 110 Cleveland Blvd
 MacNeill P G 100 Wellwood Dr NE 7-9205
KENMORE
 Bowser & Sapechy 2070 Sheridan Dr
 Reagan Co J A 449 Victoria Blvd VI-3273
LIVERPOOL
 Wadsworth Mfg Assoc 509 Balsam St LI 69-7043
NEW YORK CITY & METROPOLITAN AREA
 Including Northern New Jersey. "Reps" having
 no city name following local address are in
 New York City proper.
 *Aaron Paul D Professional Bldg Port Washington
 Bldg (Port Washington) PD 7-5670
 *A-D Associates 297 Greenbrook Rd (N Plainfield
 NJ) PL 5-6766
 *Adelman Co Leon L 225 Chittenden Ave TD 7-1145
 Aero Eng'g Co 220 Old Country Rd (Mineola NY)
 PI 6-0170
 *Agress Clifford 891 Fulton St (Valley Stream
 NY) VA 5-8955
 Aironic Accessory Co Inc 161 Orinoco Dr (Bright-
 waters NY) NO 6-7510
 Atomic Assoc Inc 139-21 85 Dr Jamaica NY
 Enfield Assoc C S 104 Mountain Way (Ruther-
 ford NJ)
 Baum Sydney H 70-15 Fleet St (Forest Hills 75
 NY) BD 3-8101
 Benjay Assoc 521 S Fifth Ave (Mt Vernon NY)
 *Bellan Sales Marty 167 73 Ave (Flushing 65 NY)
 OL 7-6659
 Berliant Assoc Sh S Grand Ave (Baldwin NY)
 *Bialek Assoc Samuel 205 E 42 St MU 4-1655
 Birdson R B P O Box 452 (Caldwell NJ)
 *Bittan Co D R 104 S Central Ave (Valley
 Stream NY) LO 1-2444
 *Blair-Steinberg 45 S Broadway (Yonkers NY)
 YO 3-0150
 Border Barrett 121 Oak St (Tenaflly NJ)
 Bradley Assoc 215 W 88 St SU 7-7227
 Brede Co H W 75 Glen Cove Rd (Greenvale NY)
 WA 1-4700
 Brenner M 432 Beach 140 St (Bell Harbor NY)
 *Bressler Agency Jules J 838 Bergenline Ave
 (Union City NJ) UN 4-9577
 Breuer Co Inc R E 10 Columbus Circle CO 5-0440
 *Brown Co Irv 1500 Carroll St (Brooklyn NY)
 Hy 3-1379
 *Burlingame Associates 103 Lafayette St DI 9-1240
 Burlingame Assoc 510 S Fulton St (Mt Vernon
 NY) MO 4-7530
 *Camber Marty 1800 York Ave EN 9-4222
 Camera Equipment Co 315 W 43rd St
 *Carduner Sales Corp 80 Shore Rd (Port Wash-
 ington NY) PO 7-7700
 CDB Enterprises 43 Barrister Rd (Levittown NY)
 *Cerr & Co Art 744 Broad St (Newark NJ)
 MI 2-6734
 *Cerr & Co Art 117 Fayette St (Manlius NY)
 MA 62-3301
 Clarfield Albert 90 Roberts Pl (Roosevelt NY)
 Cliver Co EK 213 Edgewood Ave (Westfield NJ)
 WE 2-6284
 C & M Industries Inc 141 E 44 St
 *Components Sales Corp 218 E Harborside Ave
 (Harborside NY) SC 5-1050
 Controls & Instruments 15 E 30 St
 *Cooper-Dibiasi 90 Main St (Port Washington NY)
 7-0470
 Cooper-Simon & Co Inc 400 E 79 St
 *Crofton Assoc T J 30 Rockefeller Plaza CL 7-5782
 Daggan & Potter 64 Woodland Ave (Summit NJ)
 CR 7-0220
 Dean Robert 1322 E State St (Ithaca NY)
 Delman Joy 2686 Ocean Ave (Brooklyn NY)
 Delwiler L K Rm 205 443 Broad St (Newark 2
 NJ) MU 5-9000
 Discullo Eugene V 297 Greenbrook Rd (N Plain-
 field NJ)
 Drexler Chester 509 Lombardy Blvd (Brightwaters
 NY) BA 7-1576
 *Drexler Chester 3 Lee Rd (Farmingdale NY)
 CH 9-8206
 Dynam Co J V 184 Cedar Ave (W End NJ)
 CA 2-1953
 Dynatrol Inc 95 Liberty St (WO 4-1358
 Electronic Sales 261 Elm St (E Paterson NJ)
 Electronic Representatives Inc 35 Old Country Rd
 Westbury NY
 Electronic & Television Consultants P O Box 47
 Highbridge Sta
 *Electro Tech Associates 187-61 Hollis Ave (Hollis
 223 NY) AX 7-3525
 Ellis & Assoc Harold R Oakland Gardens (Flush-
 ington 64 NY) MU 2-5844
 *Emco Sales P O Box 626 (Ardsley NY) OL 3-0100
 Energy Control Co 5 Beekman St BA 7-0457
 Engle & Assoc Inc Curtis G 210 S Broad St
 (Ridgewood NJ) GI 4-1300
 *E R & Inc 340 Great Neck Rd (Great Neck NY)
 HU 2-9320
 *Erde S 271 Hemstead Ave (Malverne NY) LY 9-
 6500
 Faber & Assoc R L 1246 Broad St (Bloomfield)
 ED 8-6900
 Fay-Garrettson Inc 105 Hillside Ave (Williston
 NY) PI 2-1616
 *Fields Sales Co Jack 5 Howard St (Verona NJ)
 PI 6-6717
 *Finlay Robert Lincoln Bldg (Ridgewood NJ)
 OL 2-0088

REPRESENTATIVES ("REPS.")

- Fisher Sls Co Steve 18 W 21 St
 Forrest Bernard J 102 Warren St CO 7-1711
 Forsyth Sales Corp 212-02 41 Ave P O Box 106
 (Bayside 61 NY)
 Frathom Co 33 W 42 St BR 9-9422
 Frazer & Hansen Ltd 120 Broadway WO 4-3454
 Freed & Co Leon 420 Lexington Ave
 *Friedman Co Adolph 519 S 5 Ave (Mt Vernon
 NY) MO 3-4866
 *Garten & Assoc Louis A 645 Eagle Rock Ave
 (W Orange NJ) RE 1-1800
 *Gawler-Knopp Co 178 Eagle Rock Ave (Roseland
 NJ) CA 6-4545
 Ginsbury Ltd Sylvan B W 40 St LO 4-7585
 *Glass Assoc Ed 250 W 57 St JU 6-8440
 *Glasman Sam 28 Prestwick Terr (Glen Cove NY)
 Gorman Wm 36 Bunn Ave (E Orange NJ)
 *Gramercy Sound Assoc 175 Fifth Ave AL 1-0985
 *Gray Assoc Harold 21-10 33 Rd (Long Island
 City E NY) YE 2-3825
 *Greenberg Jerry 1193 E Broadway (Woodmere LI
 NY) FR 4-3748
 *Gross Assoc Inc Adolph L 514 Broadway WO 6-
 0800
 *Gulzeit & Assoc Jack M 75-02 168 St (Flushing
 56 NY) OL 8-4385
 H A F Assoc 330 E 70 St
 *Harris Arthur M 42-34 195 St (Flushing 58 NY)
 FL 7-7350
 Heller Assoc Joseph L 250 W 57 St Rm 215
 NY 7-7498
 *Hess Assoc Arthur 62-07 68 St (Glendale 27 NY)
 HICKS W B 4 Spruce Dr (Roslyn NY) MA 7-6150
 *Hoffman & Co H L 44 N Dean St (Englewood
 NJ) LO 8-1012
 *Hoffman Co H L 804 Newbridge Ave (Westbury
 LI NY) ED 1-5600
 Holliday-Hathaway Inc 9 Lincoln Ave (Rutherford
 NJ) MU 8-5858
 *Holliday-Hathaway Inc 11 Northern Blvd (Great
 Neck NY) HU 2-6750
 Holliday-Hathaway Inc P O Box 296 (New Hart-
 ford NY) UT 2-1602
 *Holliday-Hathaway Inc 2 Cannon St (Poughkeepsie
 NY) GR 1-2727
 Houser Barry 188 Water St (Perth Amboy NJ)
 Hughes Co K E 3808 Bergenline Ave (Union City
 NJ) OX 5-0082
 *Hunter & Salisbury Inc 87 Broadway P O Box 403
 (Hicksville LI NY) WE 8-1080
 *Industrious Co 307 W 38 St LO 5-4482
 Jackson & Co 9 Lincoln Ave (Port Chester NY)
 WE 9-4218
 Jackson Eng'g Co 128 Court St (White Plains NY)
 WH 8-1033
 Jacobs Jack 1800 E 12 St (Brooklyn 29 NY)
 Jask Charles 11 Park Pl
 Johnson & Assoc Inc W B 126 Liberty St
 *Joseph Assoc Ben 43 S Middle Neck Rd (Great
 Neck NY) HU 7-9395
 *Kaehler & Mack 1 Park Ave (Manhasset 11 LI
 NY) MA 7-1459
 Kahant Assoc 11 Park Pl CO 7-5326
 Kahgan Sales Corp 1261 Broadway
 *Kee Enterprises 97 Reade St WO 4-0996
 Kogge Assoc John 9 W Prospect Ave (Mt Vernon
 NY) MO 4-5577
 *Kubrick & Yurman 200 W 34 St BR 9-6517
 Land C Air Sales 140 Marbledale Bn (Tuckahoe
 1 NY) WO 1-4700
 *Landis Sales Co Cliff 81-11 Roosevelt Ave (Jack-
 son Heights 72 NY) IL 8-7900
 *Leeds Co G G 12 Crampton Lane (Great Neck
 LI NY) HU 2-7784
 Levinson Ben T 270 Harvard Ave (Rockville Centre
 LI NY)
 *Levinson Sales Co Inc 545 Fifth Ave MU 2-2995
 *Lichter Wm Co 26 Teakwood Lane (Roslyn NY)
 RO 3-2636
 Linder International Corp 9 E 45 St MU 2-3760
 Livera & Assoc Inc A L 4 Green Village Rd
 (Madison NJ) FR 7-3220
 *L & N Associates 2202 Raphael St (Fair Lawn
 NJ) FA 4-7050
 *Luce & Co R P 7 Beechwood Rd (Summit NJ)
 CO 7-3550
 McKeown Co Robert P O Box 1040 (Newark J
 NJ)
 McManus John J 345 Clinton Ave (Brooklyn 3R
 NY)
 *Machine & Products Co 52 Wall St
 Mag-Tran Sales Corp 210 S Broad St (Ridgewood
 NJ)
 Marchand O P 312 Academy St (Jersey City NJ)
 Marcy Assoc Robert J 1776 B'way
 *Masin Co O F 1 Wolf's Lane (Petham NY) PE
 8-4510
 *McKean Co J C 1 Christopher St AL 5-6387
 *Munthorne Int'l Inc 15 Moore St
 Moore Co Paul J 56 Broad St (Bloomfield NJ)
 PI 8-7700
 *Morse Sales Irv 150 Broadway CO 7-2913
 *Murray Co 604 Central Ave (E Orange NJ) OR
 5-9038
 *Newhope Co 6 E 39 St LE 2-7372
 Norbell Sales Co 211-02 Northern Blvd (Flushing
 61 NY)
 Oneal Corp 15 Exchange Pl (Jersey City NJ)
 Onore J 240 The Village Magic Ave (Elizabeth
 NJ) EL 5-0474
 Ossimann Corp E A 147 Front St (Vestal NY)
 EN 5-0296
 Pacent Eng'g Corp 310 Northern Blvd (Great Neck
 NY) HU 2-4678
 Par Distributors P O Box 352 (Syosset NY) WA
 1-5290
 *Pickett James M 205 E 66 St TR 9-9520
 *Pisencia Inc Joseph 401 Broadway WA 5-3410
 *Podemyn Inc Geo 207 Nachensack St (Woodbridge NJ)
 Fodeyn Inc Geo 263 Great Neck Rd (Great Neck
 NY)
 Production Sales 39-16 Tierney Pl (Fair Lawn NJ)
 Puleo R S 5 Whittier St (Lynbrook LI NY) LY
 9-4875
 Punt & Co Wm R P O Box 178 (Floral Park LI
 NY)
 Recupiti & Weiss 635 Dak St (Cobogue LI NY)
 Reed & Riddett Co 1106 Jericho Turnpike (New
 Hyde Park NY)
 Reed & Riddett Co 190 Riverdale Rd (Westwood
 NJ)
 Reed-Tollefson Corp 1905 Vestal Rd (Vestal NY)
 VE 5-5979
 Reizes Co Harry N 1473 Sylvia Lane (E Meadow
 NY) IV 3-1928
 *Richardt Co J W 234 N Eighteenth St (E Orange
 NJ) OR 6-7719
 *Richter Co H & 467 Hillside Ave (Westfield NJ)
 AD 2-4615
 Rise Int'l Corp 204 E 38 St
 Ringer Co W L P O Box 114 (Glen Rock NJ)
 Rizzo Co Joseph F Rm 5710 Empire State Bldg
 RMC Assoc Inc 391 Grand Ave (Englewood NJ)
 LO 7-3933
 RMC Assoc Inc 236 E 75 St TR 9-2023
 *Rockbar Corp 650 Halstead Ave (Mamaroneck NY)
 MA 9-7300
 Roche Int'l Corp 13 E 40 St MU 9-0200
 Roller Inc Wm A 159 Liberty St (Mineola NY)
 Rose George A 520 Fifth Ave
 Rowland Assoc E W 40 West St WH 4-8395
 R & S Electronic Sales P O Box 217 (Hempstead
 NY) PR 5-7852
 Rusoff Sales Art 1625 E 13 St (Brooklyn 29 NY)
 Russell Assoc Inc 165 Orinoco Dr (Brightwaters
 LI NY)
 Rullt Wm 130 Lafayette St
 *Saffler Assoc Perry 157 W 57 St CI 7-3855
 Sales & Ind Repres P O Box 390 (Freeport NY)
 Sanford L C 202 Woodland Ave (Rutherford NJ)
 *Schmitt Co F Edm 136 Liberty St WO 2-6550
 *Schwartz Adolph 15 Exchange Pl (Jersey City
 NJ) WO 4-1757
 Schwartz Co Mel 39-16 Tierney Pl (Fair Lawn NJ)
 SW 7-3435
 *Scott Co George G 6 Stuart Dr W (Glen Cove
 NY) OR 6-2088
 Sharentz Co Herbert Box 147 (Scarsdale NY)
 Shaw Co S A 444 Kneeland Ave (Yonkers NY)
 YO 3-5700
 *Shulian & Co Wally 880 Bergen Ave (Jersey City
 NJ) SW 5-2220
 *Simberhoff Sales 68 Hudson St (Hoboken NJ)
 OL 6-5211
 Simons & Son Co Inc M 25 Warren St BA 7-5513
 Slate Inc Erwin A Box 84 (Gasport NY) LO
 3-3778
 Smith Co 16 Northfield Ave (W Orange NJ) DR
 6-6818
 *Smith Howard F 259 W 14 St CH 2-2398
 Snyder Milton Co 205 E 42 St Rm 1807
 Snyder Co Inc W A P O Box 184 (Union NJ)
 MU 8-6100
 *Solomon & Co George 395 Broadway CA 6-5736
 *Sonim Assoc David 210 Fiske Pl Lucas Bldg
 (Mt Vernon NY) MO 8-9809
 *Spellman Co Fred 200 Plandome Rd (Manhasset
 LI NY) MA 7-3399
 *Sprung Assoc Joseph 254 W 31 St LO 5-1826
 *Stang Sales Co J Crestwood Lane (New Rochelle
 NY) NE 6-6622
 *Stollmuck Michael W 67 Dorchester Rd (Emerson
 NJ) CO 1-2313
 *Straw Ed 611 Cedar Lane Box 162 (Teaneck NJ)
 TE 6-3474
 Sruets Int'l Corp 50 Broad St WH 4-7487
 Taylor Corp B B 2270 Grand Ave (Baldwin NY)
 BA 3-8000
 *Taylor Corp B B 241 Sunrise Hwy (Rockville Cen-
 tre NY) RO 4-6000
 *Technical Representatives 137-21 70 Ave (Flush-
 ing NY) LI 4-5058
 Telesco Int'l Corp 36 W 40 St
 Test Equip Sales Co 29-46 Northern Blvd (Long
 Island 1 NY)
 *Tobias & Co D F 30 Church St CO 7-4349
 Tranco Associates 148-03 Hillside Ave (Jamaica
 35 NY)
 Turney & Beale 214-27 Northern Blvd (Bayside 61
 NY) BA 4-4000
 *Tylnski Frank 73-63 Bell Blvd (Bayside NY)
 HO 4-8927
 Varrelman-Gorman Co Box 503 (Hicksville NY)
 Verter Sales Co 2352 E 66 St (Brooklyn NY)
 HI 4-3880
 *Weber Assoc J Route 218 (Old Bridge NJ)
 SO 6-5900
 Wild & Assoc Inc Box 297 (Roslyn NY)
 *Willgold Electronic Sales 100 N Village Ave
 (Rockville Centre NY) RO 4-4022
 Woodil Assoc Harry P 82 Washington St (E Orange
 NJ)
 Zeitlin Martin 50 Schuyler Ave (Newark NJ)
 *Zlowe Co Leonard 58 Joyce Rd (Hartsdale NY)
 DO 3-7291
4. SYRACUSE
 Franklin Co W A 3 Holly Rd T-1-3883
 Hoffman W L 233 Melrose Ave GL 8-0430
 Reagan Co J A 117 Clarence Dr HO 3-8301
ORCHARD PARK
 *Ball Associates Inc 64-58 E Quaker St ID 4416
PHELPS NY
 *LeRoy & McGuire Inc R D No 1 KI 8-4891
PITTSFORD
 Holliday-Hathaway Co Inc P O Box 81 LU 6-5757
ROCHESTER
 *Barnwell & Schoettes Assoc Winthrop Office Bldg
 36 Winthrop St BA 5-7687
 *Electro-Rep Sales Co 187 Culver Rd GR 3-7398
 Fowler-Beach Corp 3700 East Ave Rm 3 LU 8-0468
 Gislason Sales Inc 82 St Paul St
 Hansen Sales Assoc 1650 E Main St HU 2-3644
 *Hoffman & Co H L 662 Monroe Ave BR 1-2144
 Johnson Agencies Inc H C 111 Mt Hope Ave HA
 6-1090
 Kennedy & Co R P 182 Wayflower Dr BR 1-6322
 Lazor John P O Box 307
 Niagara Electric Sales Co 133 S Clinton St HA
 6-2070
 Nickles Engineering 830 Linden Ave
 Ossman Assoc Edward 830 Linden Ave LU 6-4940
 Reed-Tollefson Co 2815 Monroe Ave HI 5-0450
 *Richter Corp Wm 790 Linden Ave HI 5-0586
 Ryserson Assoc Inc J D 105 Pickwick Cr
 Scanlon J P 51 Bloomfield Pl GR 3-7553
 Schmitz A W 82 St Paul St HA 6-3090
 Schomburg Eugene 830 Linden Ave
 Semple James L 21 Edgewater Ave GR 3-9088
 *Wolfe-Warney Sales Co 74 Park Ave GR 3-9088
 *Young Assoc 520 East Ave HI 5-4468
 Zissler A F 3700 East Ave LU 6-6226
SCHENECTADY
 *Redford Corp Box 1067 EX 3-3051
SKANEATELES
 Hansen Sales Assoc P O Box 206
SODUS
 DeGee Agency Alan E P O Box 73
SYRACUSE
 *Allen Inc Leonard D 2401 S State St 4-4196
 Brown Co Vincent J 218 Harrison St GR 1-3485
 *Burlingame Assoc 514 University Bldg GR 1-7409
 *Callahan W J 156 S Edwards Ave HO 3-2151
 Costello J V 639 S Warren St HA 2-0532
 *Hoffman & Co H L 500 Lafayette Bldg SW 3-6645
 *Holliday-Hathaway Inc 203 Sunny Crest Rd HO
 3-0006
 Hotze I A 112 DeWitt St GR 9-7387
 Keller Industrial Prod 216 DeWitt Rd
 *Land & Air Sales 317 State Tower Bldg
 Lanzendorf Oren G 513 Cumberland Ave
 Naylor Electric Co 1115 Willis Bldg HA 2-9834
 Ossman Corp E A 308 Merritt Ave HO 9-3825
 *Pastor-Hunter Co 609 Demond Dr GI 6-2180
 Perkin Co A L 639 B Warren St
 Ryserson Assoc Inc J D P O Box 1400 GI 6-1771
 *Swank Wally B 2310 Bellevue Ave SY 1-2141
 *Zimmerman Inc Wilson H 112 De Witt St GR
 4-4889
TOWANDA
 Components for Industry 103 Greenhaven Terr
North Carolina
BURLINGTON
 *Hayden Assoc Paul 423 Guthrie St CA 7-3479
CHARLOTTE
 *Cartwright & Bean 625 Harwyn Dr FR 6-8648
 Gearhart Co Box 11205 Park Rd Sta ED 3-6719
 *Haney & Co Howard 3236 Draper Ave FR 5-6546
 Henry Bill 2722 Normandy Rd
 Highsmith & Co J L 737 Providence Rd P O Box
 1011 FR 7-2546
 Nile W H P O Box 6165 FR 5-0365
 Larco Eng'g Inc 1043-B Providence Rd ED 4-7079
 *Murphy & Cota 2036 Norton Rd ED 2-7356
 Roddy Luke D 913 S Clarkson St
 Rudisill Assoc Jake 1312 Myrtle Ave FR 6-4792
GREENSBORO
 *Allcheson & Adams 601 N Elm St BR 2-6838
 *Hart Eng'g & Sales Co 406 E Greenway Dr R
 GR 4-7725
HIGH POINT
 Birns & Caldwell Inc 1923 N Main St HI 2-6873
RALEIGH
 *Hanner Co John C P O Box 2755 TE 4-8294
WILMINGTON
 *Manufacturers Sales Agency 4924 Oleander Dr
 5749
WINSTON-SALEM
 *Hilker Co A H P O Box 4123 4-2084
 *Holliday-Hathaway Co Inc 222 N Trade St 4-7252
 *Murphy & Cota 1102 Burke St PA 4-0750
 *White & Co Inc L G P O Box 2356 PA 5-3612
Ohio
BRECKSVILLE
 Nace Co Allen 7601 Parkview Rd JA 6-4323
CHAGRIN FALLS
 Thomas Eng'g Co Ellendale Rd CH 7-7786
CINCINNATI
 *Anderson Co C E Mariemont Center Bldg BR
 1-4952

REPRESENTATIVES ("REPS.")

Diamond Co Ken 3455 Edwards Rd
 *Gallagher Co 15 Ritchie Ave P O 1-1288
 Gregg & Spohn 1418 Bonnell Ave VA 1-7978
 Johnson Arnold 7267 Thomas Dr LO-8826
 Kifford Co John P O Box 423 7540 Reading Rd
 *Murray James W 5673 Green Acres Court HU
 1-9726
 Otten Co John O 4016 Diehl Ave SY 1-1297
 Richard Equipment Co 2137 Reading Road CH
 1-3240
 *Sattolo Co Roselawn Center Bldg 7374 Reading
 Rd JE 1-3094
 Sheridan Assoc Roselawn Center Bldg ME 1-2460
 Smyser Co 1046 Delta Ave TR 1-0605
 Teller Assoc Paul 8838 Cabot Dr
 *Wahl Co Inc A C 121 Mill St P O Box 213 VA
 1-3270
 *Whitesell & Assoc P O Box 2717 ME 1-9210
CLEVELAND
 *Baehr-Greenleaf & Assoc 14700 Detroit Ave LA
 1-8468
 *Baier Co A H 12429 Cedar Rd FA 1-5690
 *Brauer & Assoc Walter J 15631 Lakewood Heights
 Blvd LA 1-7268
 Clare Electronics 24431 Oakhill Dr
 *Clark Joseph H Box 708 PR 1-2241
 Comcents Inc 3451 Broadview Rd
 *Damemiller Assoc Jr 1955 Lee Rd LO 1-4567
 *Daugherty Co F A 1120 Croysden Rd MI 2-3311
 *Deunk & Assoc R N 14820 Detroit Ave Rm 210
 LA 1-4034
 *Doffuss Charles P 2108 Payne Ave PR 1-1270
 *Edwards-Lohse & Co 2123 E Ninth St TO 1-5753
 Fisher Assoc Inc Harry Rm 306 7016 Euclid Ave
 UT 1-5757
 Goory Sales Co 19555 Henry Rd ED 1-1500
 *Henger-Fairfield Co 1812 Columbus Rd CH 1-101R
 Merrick Co George L 15326 Lorain Ave MI 1-4406
 Mutton Co John L P O Box 2918 19035 Detroit
 Rd RM 205 ED 3-2190
 Jay Eng'g Co 5413 Pearl Rd TU 4-4080
 Kohler Ernie Assoc 8905 Lake Ave OL 1-1242
 *Landfar Co J M 12429 Cedar Rd FA 1-4533
 Laz Peter E Co 13945 Lake Ave
 *Levin & Assoc Sid 6252 Mayfield Rd MI 2-8340
 Lohse Co Edward 2123 E 9th St
 Martin-Rettger Inc 3477 Fairmount Ave 2-8070
 *Midwest Sales Co 3219 W 117 St WI 1-2700
 *Morrow Co Les A 3123 W 117 St CL 1-5703
 Otten Co John O 16201 Shaker Blvd WV 1-2624
 *Ors Sales Co E G 1194 Croysden Rd MI 2-4024
 *Robinson Co C A 4143 Mayfield Rd EV 1-9049
 *Roth Sales Co Mike 13947 Cedar Rd YE 2-4262
 *Sattolo Co 16801 Euclid Ave IV 1-6200
 *Schraeder Sales Co 2709 Prospect Ave MA 1-5075
 *Scott & Steffen 1836 Euclid Ave TO 1-2626
 Service Equipment Electronics 4500 Euclid Ave
 ME 1-7030
 Servissales Co 12417 Cedar Rd EV 1-0054
 *Sharp Fred R 2138 Lee Rd FA 1-4200
 Sheridan Assoc 5348 Pearl Rd TU 4-8060
 Simeil & Co R G 3229 Westlake Ave
 Sterling S Co 4311 Mayfield Rd EV 2-4114
 Stone Robert R & Assoc 1925 Lee Road ER 1-4484
 *Teplitz & Co Inc Harry 27190 Forestview Ave
 RE 1-5676
 Tibby Co The 3115 E Derbyshire Rd
 Wagner-Green Co 1935 Euclid Ave WA 1-6382
 Zelinger Walter P O Box 3172 1554 E 195th St
COLUMBUS
 *Lelmer J W Co 367 Brynild Rd AM 8-5260
 *McFadden Wm E 150 E Broad St CA 1-3363
 *Pugh C L P O Box 5827 HU 8-4855
 Richard Equipment Co 2130 Arlington Ave HU
 6-7202
 *Seay H M 1035 Grandon Ave BE 1-3043
 Spohn Jr G A 1738 W Fifth Ave HU 6-1561
DAYTON
 *Bear Corp Neal 136 W Second St
 B E K Associates P O Box 53 Dayton View Sta
 RA-0943
 Bochenstedt & Assoc Paul J North Dayton Sta
 P O Box 175 FU-1322
 Bruno L D P O Box 61
 Bucher & Assoc J G 205 E 1st St Rm 6 BA
 8-7623
 *Carney & Assoc Jack 3106 Harvard Blvd TA-8880
 Carney Assoc Jack P O Box 64 Dayton View Sta
 TA-8142
 *Crossley Assocs Inc 53 Park Ave AX 9-3594
 *Dannemiller Assoc Inc J R 384 W 1st St HE-0662
 Dietrich Co Lowry 1389 Tabor Ave LI-5231
 Electro-Sales Assoc 512 Orangewood Ave AX 3-5426
 Eggs & Fedoten 1434 Vancouver Dr TA-9345
 Hardy Russell F Hulman Bldg
 Jay Eng'g Co Sta A P O Box 175 CL 3-2151
 Kohler Assoc Ernie 2600 Far Hills Ave OL 1-1242
 Lombard John A P O Box 481
 Magee & Co Edw 2600 Far Hills Bldg AV 9-2333
 *Nace Allen Box 93 Riverdale Sta OR-8215
 *Odeh Co Inc M P 2676 Salem Ave OR-4441
 Ohmer Assoc Frederick L Box 2013
 *Scott & Steffen Inc 120 W 2nd St AD-2652
 Siff & Assoc Robert G 341 N Robert Blvd ME-1254
 Teplitz & Co Harvey 3543 Cornell Dr CR 7-9178
 *Thomco Electronic Co P O Box 181 HE-4734
 Tower Eng'g Co 627 Salem Ave CR 7-9346
 Whitby Co H W 25 S Main Bldg FU-6377
EUCLID
 Peters Robert 350 E 215th St

HUDSON
 *Gallagher Co 260 Main St N
LAKEWOOD
 Cleveland Duplex Co 1495 Warren Road
LOCKLAND
 Wahl Co Inc A C 121 Mill St
MADIERA
 Eng'g Specialties 7706 Shawnee Run Rd
RICHFIELD
 *Bear Corp Neal 3435 Streetsboro Rd OL 9-3331
STOW
 Bloch Wm 2280 Liberty Rd OV 8-4277
 Natalino A P O Box 644
TOLEDO
 Chicote Jim 636 Nesselwood Ave CH 1-3826
 Volente & Assoc Deo 628 Clifton Rd
WESTERVILLE
 Schenck Assocs Earl W 38 1/2 N State TU 2-483R
WESTLAKE
 Gohl Co Inc M P 26614 Center Ridge Rd TR
 1-8000
WORTHINGTON
 ROC Assoc P O Box 241
 *Weller-Rahe Co P O Box 212 TU 5-7819
WYOMING
 Haffey Stanley 1243 Garden Circle
XENIA
 Michaelson Bernard 321 N Monroe St XE 2-5496
 *Sharp Fred R Co 321 N Monroe

Oklahoma

OKLAHOMA CITY
 Anderson Electric Co C B P O Box 761 VI 3-7718
TULSA
 Airsupply Co 6336 E Admiral Pl
 Anderson Electric Co C B 712 Oil Capital Bldg
 GI 7-1123
 *Bellus Mury Co 5500 E 51 St
 Fairney Co Harold Box 7081 Brookside Sta 4129
 S Peoria Ave RI 7-6490
 *Greene Co John A P O Box 911 2714 S Lewis St
 RI 2-4657
 *Kay Sales Co 2611 E 41 St RI 2-4784
 King Co Paul 28 North Guthrie LU 4-3347
 *McKinney Sales Jack F 3505 S Peoria GI 7-5701
 Snyder Co Inc 1432 E 6th St P O Box 1496
 GI 7-0126
PORTLAND
 Branom A Leeland Instr Co 6019 N E Union Ave
 BU 5-5205
 Bumstead & Woolford Co 320 S W Stark St CA
 8-6688
 *Burham Co Don H 510 N W 19th Ave CA 7-3830
 Donald Co P O Box 7013 3139 S W Altadena
 Terr CH 6-3131
 Electrical Specialty Co 1224 Southwest Morrison
 St CA 7-3188
 *Hawthorne Electronics 700 SE Hawthorne Blvd
 BE 4-9375
 Kearns Co James L P O Box 5108 BE 6-2444
 *Lee Co Inc Dave M 3527 NE Union Ave AT
 8-5796
 *Lebo Co Richard 1633 N W 21 Ave CA 3-9720
 *McMillan Co A C 10111 S W 62 Ave CH 4-1311
 *Merritt Ron Co 1238 N W Gilsan St
 *Minthorne Co Roger M 7521 N E Gilsan St AL
 3-0010
 *Northwestern Agencies 2941 N W Quimby St
 CA 7-5004
 Pacific Scientific Co 1218 S E 7 Ave FI 9-747
 Polich Inc Andrew L 734 N W Gilsan St CA
 8-2671
 Shaffer & Nelson Inc 139 E Taylor St BE 4-7437
 Tudor & Assoc Inc J A 1004 S E Belmont St BE
 2-1188
 *Webber Co Dale G B S E Clay St CA 8-5403

Pennsylvania

PHILADELPHIA AREA including Southern New Jer-
 seys "Reps" having no city following local ad-
 dress are located in Philadelphia
 Aircon Accessory Co 223 Tanner St (Haddonfield
 NJ) HA 9-1916
 *Andco-Sales Eng 5823 Greene St VI 4-9100
 Angus-Sloane Assoc 13 E Main (Moorestown NJ)
 BE 5-1900
 Arnold Associates 2202 Tyson Ave DE 3-5345
 Ballagh & Thrall 1010 Schaff Bldg 1505 Race St
 *Bancroft & Co H S 209 Cooper St (Collings-
 wood NJ) CO 5-5215
 Barret Assoc J W 704 Federal St (Camden NJ)
 Bartlett & Co Fred F 160 Moulton Ave (Bryn Mawr
 Pa)
 Bear Neal Co 1974 Gregory Ave (Monroeville NJ)
 VA 3-5117
 *Bear Corp Neal P O Box 207 (Turtle Creek Pa)
 Biechler Assoc P O Box 38 (Millersville Pa)
 Biernbaum John P O Box 7142
 *Blumenstein Harold 14 Trent Rd MI 9-9523
 *Boeneche Assoc 638 Penn St W 5-8650
 Boyce W 124 Hillside Ave (Metuchen NJ)
 *Braddock Edward P O Box 305 (Haddonfield NJ)
 HA 9-0087
 Brosson Assoc Jerry 246 Haverford Ave (Narberth
 Pa)
 Brosius Russell T 1617 Pennsylvania Blvd RI
 6-6784
 Bryans Sales Co W Robert P O Box 285 (Broom-
 all Pa) EL 6-1359

*Burlingame Assoc 222 Long Lane (Upper Darby
 Pa) SM 7-9080
 Cashman & Norton Box 124 (Broomall Pa)
 *Cerr & Co Art 614 Dutton Circle (Springfield
 Pa) KI 3-8641
 Churchhill F W 50 Upland Way (Haddonfield NJ)
 Clevenstone Walter 711 Arch St (Spring City Pa)
 Collier Co Thomas A Western Savings Fund Bldg
 1123 KI 6-3836
 Cordrey W Henry 18 W Chelten Ave VI 8-0477
 Cunningham Elec Co R L 843 S Front St
 Danco Corp Germantown Pike & Quarry Hall Rd
 (Fairview Village Pa) BR 5-2600
 Dienes Co Herbert L 1505 Papermill Rd (Erdens-
 heim Pa) CH 7-3454
 Dixon Samuel 200 Russell Ave (Barrington NJ)
 *Drew Wm 104 Essex Dr (Narberth Pa) MO 4-5766
 *Duncan & Assoc Wm I 5452 Charles St CU
 9-7525
 Eastern Radio Corp 312 Clifton Ave (Clifton NJ)
 Energy Control Corp 3147 Broad St SA 2-7903
 Estersohn 331 W Mt Pleasant St CH 7-9494
 Ertler Co E E 408 Roberts Ave (Drexel Hill Pa)
 *Fairbanks Co H J Waybar Bldg 1615 Darby Rd
 (Havertown Pa) GR 2-2467
 *Foley Andrew A 640 Federal St (Camden NJ)
 WO 5-2550
 Foley Assoc Andrew A 15 S Shirley Ave P O Box
 155 (Moorestown NJ)
 *Friedman & Assoc Martin 1006 Western Saving
 Fund Bldg PE 5-4778
 Fuller Jr Lawrence C 32 Rittenhouse Pl (Ardmore
 Pa)
 *Gawler-Knoop Co 835 Glenside Ave (Wyncote Pa)
 TU 4-8805
 Girard W E 715 Fairhill Rd (Glenside Pa)
 Glaser Co Joseph L 33 E Wynnewood Rd (Wynne-
 wood Pa) MI 2-9242
 Goodman Henry A 401 Mt Airy Ave W
 Hatfield Co R E 165 E King St (Lancaster Pa)
 EX 7-5177
 Hantschild George 949 Marcella St JE 5-1768
 *Milliard Assoc 1125 Old York Rd (Abington Pa)
 Hitchens Co R R 323 Homestead Ave (Haddonfield
 NJ) HA 9-2491
 *Hoffman & Co H L 1468 Old York Rd (Abington
 Pa)
 *Holliday-Mathway Co Inc 101 N 33rd St EV
 6-6616
 Hoyt & Co F D 195 Nassau St (Princeton NJ)
 *Jeffries Samuel A 105 Forrest Ave (Narberth Pa)
 MD 4-8500
 Kaiser Dieck 4302 Embur Terrace Bethlehem Town-
 ship (Easton Pa) EA 3-0605
 *Keefe Electronic Sales Co 228 E Kings Hwy
 (Haddonfield NJ) HA 9-4650
 *Leban & Graham 1414 Manoa Rd MI 2-0668
 *Lewis Co Herman 1622-68 Ave LI 8-8487
 *Lowery Inc L D 50 E Wynnewood Rd (Wynnewood
 Pa) MI 2-9100
 *MacDonald Inc S K 1531 Spruce St KI 5-1205
 *Maguire & Co J A 116 N Seventh St (Camden 2
 NJ) WO 6-3118
 Malto & Co Victor 1135 Slocum St WA 4-8688
 *Massey Assoc 529 Brookhurst Ave (Narberth Pa)
 MO 4-4200
 *Miller Co Harry 27 Mechanic St (Red Bank NJ)
 SM 6-9300
 *Moler Co G W 810 Broadway Suite 403 (Camden
 NJ) EM 5-5020
 Morrow & Son Linn O Schaff Bldg LO 7-6431
 *Moyer Co Harold A P O Box 14 (Haddonfield
 NJ) HA 9-6347
 M & S Electronics Box 185 (Haddonfield NJ)
 *Mustrco John 312 Bewley Rd (Havertown Pa)
 MI 6-1961
 Naudain L Parber Suburban Sta Bldg Rm 946 RI
 6-3790
 Newton & Assoc C H 150 Terminal Ave CH 8-0282
 *Nolan Assoc John J 314 W Scarb St WA 4-1595
 North G R Broadway-Stevens Bldg (Camden NJ)
 EM 5-5020
 *O'Hara Brendan 5040 City Line Rd
 Orsi John F P O Box 346 (Bryn Mawr Pa) LA
 5-6212
 Paragon Sales Co 111 S 22nd St RI 6-5699
 *Pearson R T 1125 York Rd (Abington Pa) TU
 7-0186
 Peckham Malcolm A 130 S Fairview Ave (Upper
 Darby Pa)
 Penn-Del Instr Sales 400 Bethlehem Pike
 Polymeric Devices Co 2039 Fortune Rd (Glenside
 Pa)
 Powell Co Harold H 2102 Market St LO 7-5285
 Quantan Co D G 4700 Frankford JE 3-6767
 *Randall Co Ken 121 N Broad St LO 4-2151
 *Robinson Co I E 905 Main St (Asbury Park NJ)
 KE 1-3150
 *Robinson Co I E 7404 W Chester Pike (Upper
 Darby Pa) SM 8-1294
 Rothenheber & Co 53 Cricket Ave (Ardmore Pa)
 *Rothenthal W F P O Box 664 (Havertown Pa)
 SU 9-9600
 Shelts George A 316 Cliveden Ave (Glenside Pa)
 Shelts George A 1625 Spruce St
 Slubin & Co Lewis 2305 Fairmount Ave SY 7-2072
 Snow C E Co 403 Broadway (Camden 3 NJ)
 Snyder Co V A 1424 Race St ST 4-9141
 S & S Assoc 10 DeKalb St (Norristown Pa)

REPRESENTATIVES ("REPS.")

*Stinson Co John T 219 Sagamore Rd (Haverlowtown Pa) HI 7-0922
 *Stratton Co D H 514 E Wadsworth St CH 7-7869
 *Technical Representation 25 E Easton Rd (Glenside Pa) TU 7-1325
 Test Equipment Sales Co 4447 N Bodine DA 9-1822
 Twine & Son Co 402 Bethlehem Pike CH 8-3233
 Trinkle Sales 133 Belle Arbor Dr Kingstons Estates (Haddonfield NJ) NO 3-3033
 *Weber-Linz Assoc 238 Shelmore St CH 3-161J
 Whiddett Co John C 3850 Garrett Rd (Drexel Hill Pa) CL 9-3636
 White Harry T Co 1839 W Albanus St MI 4-1880
 Wilkison Inc Robt L P O Box 215 (Glenside Pa) HA 4-8400
 Williams & Assoc Victor W 1100 White Horse Pike (Oaklyn N J) CO 5-6332

PITTSBURGH

Eclinger W H P O Box 4088 LO 1-2340
 Continental Sales & Eng P O Box 10505 211 Nelson Ave CH 1-5660
 Dietrich Co Lowry 1404 Swantek St WA 1-2959
 Greenleaf Co Walter J 512 Franklin Ave
 Jacobs & Assoc Inc M S 810 Noblesstown Rd
 *Levine AI 11 Jomauk Place LO 1-7027
 *MacDonald Inc S K 715 Second Federal Bldg 355 Fifth Ave AT 1-2553
 Miller Jim 216 Cherokee Rd TE 5-5217
 Moore & Co Edgar M 6964 Thomas Blvd EM 1-8780
 *Odeh Co Inc M P 750 Penn Ave FR 1-1231
 Olsen Co John O 104 Etatan Dr BR 9-2550
 Olsen Co John O 3552 Wallace Dr TU 4-0472
 Pittsburgh Electrical Insulation Co 3000 Bigelow Blvd
 *Podolny Co James H 4716 Coleridge St HI 1-0800
 Ransford H E Grant Bldg 5400 Clairton Blvd TU 4-3425
 Sterling Co S 855 Park Bldg 355 5th Ave EV 2-4114
 Sterling Co S 315 Fifth Ave AT 1-9248
 *Slover S H 5495 Penn Ave EM 1-7533
 *Tanner & Covert Assoc 300 Mt Lebanon Blvd LO 1-5067
 Whitaker & Son Earl E 822 Wood St P O Box 8837 FR 1-6220

READING AREA

*Beil Thomas H 3623 Jacksonwald Ave (Esterly) 5-5837
 Feder Jr John H P O Box 1092 (York)
 *Loose Warren L 646 Gordon St 2-7094

South Carolina

COLUMBIA
 MacQuire Instrument Co 4010 Kilbourne Rd SU 7-3070

MYRTLE BEACH

Nims & Assoc Clyde E P O Box 2692

Tennessee

CHATTANOOGA
 *Johnson Co Jesse P 413 Dome Bldg AM 6-1610
 Watts Machinery Co Bud 4116 Albemarle WA 3-9408

KNOXVILLE

Mejloy Hal P O Box 3207

MEMPHIS

*Carwright & Bean 1336 Madison Ave BR 5-1914
 *Engleman Co AI 3205 Crump Ave GL 8-6263
 *Jesse George O P O Box 5703 BR 6-1112
 Odeen Marshall 506 Cherry Rd MU 3-8505
 Ofutt Co L E P O Box 8063
 Watts Machinery Co Bud Box 5435 1011 Hall Dale Rd EX 7-4211
 Winn Lyman 1677 E Beard Pl ME 36-2317

NASHVILLE

*Alcheson & Adams Box 157 00-31
 Dixie Electronic Assoc 409 4th Ave S
 Miles & Assoc H R 2500 Franklin Rd CY 2-7016
 *Wallace Assoc Inc Stanley K 638 Roselle Dr CY 7-0620

Texas

ARLINGTON
 Ellefson H B P O Box 273 1411 Juanita Dr

DALLAS

*Allied Components 2517 Commerce St P O Box 10203 RI 2-2830
 *Ammon & Woods Associates 5604 E Mockingbird Lane TA 3-1191
 *Anderson Co George E 1901 Griffin St RI 5931
 Andy & Assoc 5834 Waggoner Dr
 *Antle-Smith Sales 2721 Brookfield St FL 7-7279
 Automatic General Sales 3017 Westminster Dr EM 3-1037
 *Aymond Co Edward F 4213 Maple Ave P O Box 6595 LA 6-5233
 *Barnes Co Arnold 5512 Dyer St EM-6716
 Benson Engineering Co 2514 W Mockingbird Lane
 *Berthold Sales Co 4411 Maple Ave LO-8329
 *Branum Sales Co P O Box 10204 RI 1-4995
 *Campion Sales Co 9002 Chancellor Row FL 7-4095
 *Crockett-Lund & Co 2204 Griffin St RI 2-5764
 Corry Co Hal F 6315 Hillcrest Ave JU-9172
 Dallas Radionics 4128 W Jefferson FE 1-6204
 *Dezell-Maynard Suite 107 2013 Cedar Springs RI 2-2027
 Gay Sales Co Assoc P O Box 11186 DA 7-0421
 Green Co John A 6815 Oriole Dr RI 1-3266

Green Co John A 137 Parkhouse
 *Gross Fred 14025 Denton Dr CH 7-5424
 *Guenther John 4533 N Central Expwy JU-6286
 *Hays Jr W R P O Box 12204 LA 1-1216
 *Heidenreich Co 6115 Denton Dr FL 2-3389
 Kanowsky Inc Ben 5513 Maple Ave P O Box 7133
 Kanlenberger Co W J 711 Reverchon Dr
 *Kemp Eng Co 10582 Spangler Rd CH 7-5031
 Koch Eng & Sales Co 727 Meadows Bldg
 *Lawrence Sales Co James H P O Box 13026 FL 2-7484
 *Lieberman & Assoc Hank 532 Fidelity Union Life Bldg RI 7-2225
 Lipscomb Assoc Earl P O Box 7084 FL-8771
 *Maas Jr Harry A 4219 Normandy LA 6-2209
 Macrae-Smith Co P O Box 35113
 *McKinney Sales Co Jack F 1330 N Industrial Blvd RI 1-1368
 *Nesbitt Co Robert E 1925 Cedar Springs RI 7-5824
 *Norvell Assocs 5622 Dyer St FO 8-4180
 Norvell Assocs 3603 Lemmon Ave LA 6-7861
 *Packard Assoc Rm 404 Boeing Field Air Terminal Bldg EM 8-6461
 Peck Gordon V 130 Casa Linda Plaza DA 1-4637
 Rider Jr W W 10930 Pinocchio Dr
 *Scanlon P J 2608 Inwood Rd FL 1-9991
 *Scanlon P J 2911 Oak Lawn Ave LA 6-8681
 *Schoonmaker Co J Y 5328 Redfield P O Box 35266 LA 6-7238
 Smith J Earl P O Box 35331 Airlawn Sta FL 7-1727
 Smith J Earl 6211 Denton Dr FL 7-1727
 Smith Sales Pet P O Box 35113
 *Southwest Electronic Industries 4515 Prentice St FO 8-8306
 Southwestern Eng'g & Equip Co 3906 Lemmon Ave LA 6-7433
 Southwestern Mfg Co 4716 Eli St UN 2-8874
 Texas Avionic Co 5623 Dyer St FO 8-5498
 *Tessort Co 2147 Frinton Rd RI 7-6886
 Thomson Eng'g Service 2712 W Mockingbird Lane FL 7-7885
 Ward Co L R 3009 Canton St RI-6279
 *Weinreich & Assoc George 1210 Old Gate Lane FA-2800
 White Co R F 2519 Carlisle St RI 2-5441
 *Wills Co Ernest L 3212 Camp St PR-2637
 *Willson-Marl Co 1210 Old Gate Lane TA 6-3461
 Wright Industrial Sales 5738 N Central Expwy TA 4-2571
 *Yount Co Jack 2731 Taylor St EX 1-4188

EL PASO

*Markowitz Co Herman 1132 Texas St KE 3-8231
 Steel & Eng'g Products Co 2918 Madeira St P O Box 3626 4-1521

FORT WORTH

Adco Industries P O Box 9275
 Airsupply Co P O Box 1906 ED 5-4541
 *Engineering Assoc P O Box 8800 2912 Stanley St WA 3-7386
 Gulf Metal Products Co 901 W Vickery Industrial Associated Electronics 5911 E Lancaster JE 5-2056
 *Sears Co Mitchell 3801 Westcliff Rd S WA 6-4444

GRAND PRAIRIE

Aircraft Electronics Co 233 SE 14 St CR 4-6465
 Tex-It-Koma Sales Co P O Box 747 2325 W Jefferson AM 2-0866

HOUSTON

Brice Co Wm E 303 Bastrop St CA 2-7321
 Eads Co The P O Box 13071 JA 6-1646
 Elliott Lynn Co 371 M & M Bldg CA 4-9715
 Gay Sales Co Assoc 420 Sul Ross St P O Box 12322 JA 9-3479
 *Green Co John A Rm 110-3400 Montrose JA 6-2959
 Industrial Equipment Co of Houston Mox 9155
 6831 Navigation Blvd WA 8-5431
 Kanlenberger Co W J 3011 Prescott St
 *Klippera Co M F Box 3113 JA 2-8459
 Lipscomb Assoc Earl P O Box 6573 3825 Richmond Ave MO 7-2407
 McClendon R E 1099 Waterford DA 7-0860
 *McKinney Sales Co Jack F 5951 Southlark MI 9-1221
 *Salter Robert E 208 Sackey St WA 3-8720
 *Tessort Co 12910 Yosca Dr HO 5-0734
 Ward Co L R 3605 Polk St BL-0356

SAN ANTONIO

Fischer Co Hank P O Box 82
 *Schoonmaker Co J Y 828 Stenes Ave LE 3-7717

Utah

SALT LAKE CITY
 Gates Co 200 S Main St Rm 822 EL 9-1101
 Slusser Co Leonard M 318 Dooly Bldg EL 5-2322
 Spencer Co C M 210 W 33rd St IN 8-6863
 Stevenson Ralph 2045 Walker Lane

Virginia

ALEXANDRIA
 *Anderson Co Joseph F 1023 10 St SO 8-7153
 *Brown & Assoc Inc W A 3610 MI Vernon Ave P O Box 5007 TE 6-1800

ARLINGTON

Saphir Frank B B N Woodrow St

FALLS CHURCH

Lee Assoc S S 1107C W Broad St JE 4-3500

HIGHLAND SPRINGS

Martin & Dial Inc P O Box 68 RE 7-2503

RICHMOND

Roberts Co L W 300 W Franklin St MI 8-2214

Washington

BELLEVUE
 Findlay James A P O Box 717 GI-5200
 Schmel Robert C 2505 102nd N E P O Box 236

SEATTLE

AHMMCO Rm 110 Adm Bldg Boeing Field King City Airport
 Airsupply Co 201 Boren Ave WA-8967
 Arva Corp 120 W Thomas St MI-7337
 Associated Industries 1752 Ranier Ave MI-4103
 Avionics Liaison Inc Boeing Field LA-7602
 *Backer Co Jas J 221 W Galer St AL-6470
 Branom & Leeland Instr Co 2137 Second Ave MA-7320
 Bumstead-Woolford Co 1411 Fourth Ave EL-4915
 *Burcham Co Don H 422 First Ave EL-3002
 C & H Supply Administration Bldg King County A P Boeing Field
 *Dooly J W Co 3215 Western Ave MU-8313
 *Drake Assoc Inc Rush 1806 Bush Pl CA-8545
 Eicher & Co S West Harrison St P O Box 9054 MU-2411
 Electrical Specialty Co 2406 First Ave S EL-8051
 Gillett G W 19690 19th N E
 Greaves Co Fred Co 418 Eighth Ave N
 *Haight Co Fred H 3212 Eastlake Ave EA-1818
 *Hawthorne Electronics Rm 107-Adm Bldg Boeing Field MO-3962
 *Howell Sales Inc P O Box 1328 Broadway 2039 McGilwa Blvd EA-3209
 *Johnston Ray Co 11009 Evanston Ave EM-0956
 *Lanphar Co W R 3215 Western Ave MU-8150
 *Lee Co Dave M 2517 Second Ave MA-5512
 Levinson Co Harry 1117 Second Ave S-Suite 321 WA-5317
 *Marsh Agency 2601 First MA-8761
 *Merritt Co Ron 120 W Thomas St CA 7-1281
 *Miller Co G B Box 39 Boeing Field LA-3320
 Northwest Co 330 2nd Ave W AL-8442
 *Northwest Agencies Inc 4130 First Ave S MA-8882
 Pacific Scientific Co 421 Michigan Ave MO-7000
 Parsons Co C B 1828 1st Ave MU-3933
 Porter Burt C 1209 Poplar Place CA-8330
 *Porter Burt C 4310 Roosevelt Way ME-6828
 Remco Sales 321 E 45th St
 *Schultz Co N R 320 Second Ave & Cherry Bldg SE-6396
 Seatronics Inc 1806 Bush Pl CA-8545
 Shaffer & Nelson Inc 312 Occidental Ave MU-0186
 *Smith Sales Co Don 2104 N 25th St EV-3160
 Smith Don-Northwest 2320 N 45th St
 Standard Electric Sales 204 W Lucile St
 *Stroum Co Samuel N 1612 Broadway CA-6117
 Stroum Co Samuel N 2401 Smith Tower 56th Second Ave MU-7833
 Stulois & Tebb 233 Westlake N SE-7756
 Stumph J H 1000 Fourth Ave South MU-5232
 *Technical Sales Co 1731 1st Ave & SE-5532
 Test Co Boeing Field MO-4895
 Thorson Co 1767 15th Ave S MI-5000
 Tri-State Supply Corp 319 Occidental Ave
 *Widdekind Co M K 216 First Ave N EL-6981
 Wilcox Co E A 915 Arctic Blvd
 Winkoff Neill 7554-44th St N E

SPOKANE

*Paramount Agencies So 121 Monroe St TE 8-2287
 Shaffer & Nelson Inc 1835 Broadway P O Box 198 FA 7-5395

Wisconsin

WAUWATOSA
 Mercer & Son Harold H Box 24 BR 2-2411

RACINE

*Darnold D Hale 914 Kentucky St ME 2-9644

MILWAUKEE

*Aaron & Assoc Irvin I 829 N Marshall St BR 6-8515
 *Dickinson & Assoc E A 744 N Fourth St BR 2-0517
 Ford Tool Co 8830 W Bluemond Rd
 Glenn & Co J J 7915 N Boyd Way
 Hatch Co Gordon 531 W Wisconsin Ave BR 1-3021
 Honkamp Fred 2223 N 70th St WO 4-2111
 Jacobs Co Morris F 308 W North Ave Suite 402 LO 2-5690
 *Polachek Assoc Charles S 1500 E Fairy Chasm Rd FL 2-8650

Canada

BRITISH COLUMBIA
 *McLennan Eldon D 1624 W Third Ave (Vancouver) BA-2898

MANITOBA

Jean Eric 310 Home St (Winnipeg Man)
 Robinson Co C M 1550 Erin St (Winnipeg Man) 4-1855

ONTARIO

Aeromarine Eng'g Products 2543 Gerrard St E (Toronto 13 Ont) OX 9-4621
 Ahearn & Soper Co Ltd 284 Bank St (Ottawa Ont)
 Aircraft Appliances & Equipment Ltd 585 Dixon Side Rd P O Box 177 (Toronto 15 Ont)

REPRESENTATIVES ("REPS.")

- *Armstrong A T R 700 Weston Rd (Toronto 9 Ont) RO 2-7535
Atlas Instrument Corp 50 Wingold Ave (Toronto Ont) RU 1-6174
Barron W T P O Box 124 (Oakville Ont) VI 5-2224
Bayly Eng'g Ltd (Ajax Ont) EM 8-6866
Beecher Enterprises 290 Lawrence Ave (W Toronto 12 Ont) RU 7-3861
*Clark Alex L Ltd 3745 Bloor St (Toronto 18 Ont) BE 2-3303
*Computing Devices of Canada P O Box 508 (Ottawa Ont) PA 8-1761
Delta Aviation 1798A Avenue Rd (Toronto 12 Ont) Dillons-Chemical Co Ltd 137 Wellington St (Toronto 12 Ont)
Elder Electronics 3220 Robert St (Burlington Ont) Electrical Insulation & Fibre Co Ltd 24 Mendota Rd (Toronto Ont)
Electromechanical Products Markham Rd (Agincourt Ont) AX 3-7011
Finkler Co Len 330 Adelaide St W (Toronto 2B Ont)
Fraser Ltd George 11554 Yonge St (Toronto Ont) WA 2-9492
Gas Accumulator Co Ltd 12 Gower St (Toronto 16 Ont)
Heenan Ltd P J 804 Mount Pleasant Rd (Toronto 12 Ont)
Herring & Co Ltd John 3468 Dundas St (W Toronto 9 Ont)
Hooker Ltd Samuel 1126 Bathurst St (Downsview Ont) NE 5-1470
Howard Martin J 132 Crocus Ave (Ottawa Ont) CE 5-9931
Industron Corp 297 Carlton St (Toronto Ont) Instronic Ltd P O Box 51 11 Spruce St (Stittsville Ont) HA-56
Instronics Ltd 21 Benleigh Dr (Scarborough Toronto Ont) AX 3-7806
Jeffrey Harold 156 Bathurst St (Toronto 2B Ont) *Kahnet Sales Co R C 73 Crockford Blvd (Scarborough Ont) RE-7078
Lake Eng'g Co 767 Warden Ave (Scarborough Ont) Leonard Electric Ltd 346 Bering Ave (Toronto Ont) BE 1-2731
Lomas E G 227 Laurier Ave W (Ottawa Ont) CE 2-8504
Longstaffe Co J R 300 Campbell Ave (Toronto 9 Ont)
*MacQuarrie J J 46 St George St (Toronto 5 Ont) WA 3-2455
*Measurement Eng'g Ltd (Arnprior Ont) AR-400
Paisley Prods of Canada Ltd P O Box 125 Sta H (Toronto 13 Ont) PL 5-2216
Phillips Industries Ltd 116 Vanderhoff Ave (Leaside Tor Ont) MA-8621
*Pieles John 52 Humbercrest Blvd (Toronto Ont) RO 9-2051
*Pointon Ltd Charles W 6 Alcina Ave (Toronto Ont) LE 4-7984
R-D-R Assoc Ltd 1470 Don Mills Rd (Don Mills Ont) HI 4-4421
Simmonds & Sons Ltd A C 100 Merton St (Toronto 7 Ont) HU 5-9111
*Tilton John R 51 McCormack St (Toronto B Ont) RO 9-1129
White Radio Ltd 41 W Avenue N (Hamilton Court) Whittaker E P O Box 3255 (Arnprior Ont) 1318
Wickman Ltd A C P O Box 9 Sta N 1425 Queensway (Toronto 14 Ont) CL 9-2311
QUEBEC (Montreal)
Aeromotive Eng'g Prod 5257 Queen Mary Rd EI 9-602
*Cohen Ltd Wm 7000 Park Ave CR 2-5719
Deskin Sales Co 6875 Fielding Ave
Desser Ltd E E 441 St Francois Xavier St
Electrodesign 736 Notre Dame St
Electrolabs 7385 St Lawrence Blvd
*Gould Sales Co E S Suite 108 3500 Atwater WE-7115
Griffith R S 455 Mt Stephen Ave
Hooker Ltd Samuel C 2425 Grand Blvd HU 8-8321
Manis Assoc Ben 5137 Montclair Ave
Musimart of Canada Ltd Electronic Div 901 Bleury St
National Fibre Co of Canada Ltd 1411 Crescent St
Radionics Ltd 8320 Magrard St
Railway & Power 3747 St James St W
R-I-R Assoc Ltd 6201 Cote St Luc Rd
Hawaii
HONOLULU
Hastin & Brown Box 2098 H-6005
*Piety Factors Gene 2030 Home Rule St B-3105
LANIKAI
*Dougherty Enterprises 149 Kaimi St P O Box 1014

BRAND and TRADE NAME INDEX

1958 ELECTRONIC INDUSTRIES DIRECTORY

Brand & Trade Name Index

The brand names of the products, equipment, and instruments in the radio-TV-electronic and related industries are listed alphabetically, with the name of the manufacturer.

The address of the manufacturer whose brand or trade name is listed may be obtained by referring to the Alphabetical Listing of Manufacturers, beginning on page 419.

- A**
- Abalon—Abalon Precision Mfg
Abbeon—Abbeon Supply Co
Abbot—Nat'l Gasket & Washer Mfg
Aboglas—Nalvar Corp
Abraser—Taber Instr Corp
Absolute—Cambridge Filter Corp
Absorb-a-Shock—Federal Shock-mount
Absorption-Analyzer—Kingston Electronic
Accurate—Accurate Mfg Co
AccuRay—Industrial Nucleonics
Accur-ohm—GC Electronics Cement
Accutron—Sheffield Corp
Accuvac—Green Rectifier Co
Accuwire—Accurate Insulated Wire A-Clip—Goldak Co
AC Cylotite—Optical Coating
Ace—Ace Eng'g & Machine Co
Acepot—Ace Electronics Assoc
Acetrim—Ace Electronics Assoc
Acme—Acme Battery Corp
Acme—Acme Electric Heating Co
Acme—Hanson-Van Winkle-Munning Co
Acme—Cintra Eng'g
Acme Mold—Acme Wire
ACD—General Control Co
Acoustic Baton—University Loud-speakers
Acoustigate—Altec-Lansing
AC-Pak—Bendix Red Bank Div
Acra-Flect—Pacific Universal Prods
Acragage—Norden-Ketay
Acra Instruments—Pacific Universal Prods
Acra-Ment—Sealor Corp
Acrasplit—Intron Inc
Acrawax C—Glyco Products
Acro—Robertshaw-Fulton Controls
Acroboss—Acromark Co
Acro Labs—Acro Tool & Die Works
Acroleaf—Acromark Co
Acromark—Acromark Co
Acromarker—Acromark Co
Acropia—Acromark Co
Acropainter—Acromark Co
Acro Products
Acroslam—Acromark Co
Acro-Switches—Acro Div
Acro Tool—Acro Tool & Die Works
Actigraph—Nuclear-Chicago Corp
Adalines—Femco Inc
Adasoft—Centralab
Ad-A-Switch—Clarostat Mfg
ADC—Audio Development Co
ADC—Maico Electronics
ADC—Adhesive Products Corp
Addaplug—Asso Eng'g Corp
Add-A-Tier—Bernard Franklin
Addawriter—Epsico Inc
Add-tractor—Victor Adding Mch
Adelco—Advance Electronics
Adit—Weston Instrument Div
Daystrom
Adjust-A-Cone—Quam-Nichols
Adjust-A-Volt—Std Electr Prods
Adjusta-Vue—Advance Electronics
Adustrol—Burnell & Co
Admiral—Admiral Corp
Adlake—Adams & Westlake
ADT—Amer Dist Telegraph
Adrad—Macloed & Hanopol
Adrub—Adhesive Prods Corp
Advac—Gen'l Ceramics Corp
Advance—Acme Battery
Advance—Driver-Harris Co
Advance—Elgin Nat'l Watch
Advertiser—Johnson Co E F
AELG—Bow Solder Prods
Acro—Amer Elec Cable
Aep—Ashland Electric Prods Inc
Aerial Towers—Aerial Tower Mfg Co
Aero—Aero Instrument Co
Aerocom—Aeronautical Communications Equip
Aerocom—Aerovox Corp
Aerofilm—Aerovox Corp
Aeroflex—Anchor Plastics
Aeroglas—Lenz Elec Mfg
Aerohead—Giannini Co
Aerolite—Shalcross Mfg
Aerolene—Aerovox Corp
Aerolite—Aerovox Corp
Aerolog—Link Aviation
Aerolux Lites—Aerolux Light Corp
Aeromax—Seely Instr
Aero-Magnette—Heinemann Elec
Aeromulcal—Cox & Co
Aeropak—Aero Research Instrument
Aeropot—Aero Electronics
Aeropack—Packard-Bell Electronics
Aerotemp—Aerovox Corp
Aerotron—Aeronautical Electr
Aerotron—Aerotron Associates
Aerolux—Apex Coated Fab
Aerylux—Westlake Prods
AG—Bio-Rad-Labs
Aqostat—A'G A Div Elastic Stop Nut
AGC Kit—Brooks Radio & TV
Aqtron—Magnusen Eng'g Inc
Aqualux—Luxor Lt'g Prod
AICO—American Insulator Corp
Aikrothol—Kantbal Corp
Aircoustic—Johns-Manville
Airboy—Mitchell Industries
Aircraft Appliances—Jack & Heinz
Air Dux—Illumintron Eng'g
Airflex—Lemert Eng'g
Air Hydraulic Presses—Studebaker Hydraulic Prods Co
Aromatic—Aromatic Valve Inc
Aerometric—Bilton Roy Co
Airopt—Electric Regulator
Airpure—Flanders Mill
Airtemp—Ares Lab
Airtrox—Airtrox Development
Airtube—Lamson Corp
Airvane—Joy Mfg Co
Ajusto-Spede—Allis Co Louis
Ajusto-Spede—Dynamic Div
Eaton Mfg
Alka—Alka
Alkaline—Electronic Eng'g
Alathon—DuPont de Nemours & Co
Albaloy—Hanson-Van Winkle-Munning Co
Alcemet—Solar Aircraft
Alcra—Electronic Mechanics
Alchrom—Driver Co W B
Alcojet—Alconox Inc
Alconox—Alconox Inc
Alden—Alden Products Inc
Alcetra—Gen'l Cable
Algo—Auburn Mfg
Align-O-Pot—Bourne Lab
Alite—U S Stoneware
Alka-Dex—Entrone Inc
Alkamvar—Acme Wire
Alkor—Atlas Mineral Prods
All American—Calcon Mfg Co
All Angli—Barry Controls
Allegheny—Allegheny Ludlum Steel
Allen Head—Allen Mfg
Allite—Barrett Div Allied Chemical & Dye
All-Met—Barry Controls
All-Star—All Star Welding Alloys
All-Vac—Channel Master Corp
Almag—Alpha Wire
Almanox—Frenchtown Porcelain
Almet—H K Porter Co
Alnico—Gen'l Magnetic
Alnor—Illinois Testing Labs
Alpoin—American Chemical Heater
Alor—Thermal Refractories
Alphatron—Can Radium
Alphatron—NRC Equip
Alphex—Alpha Wire Corp
Alproco—Alproco Inc
Alsimag—American Lava Corp
Altemp—Alpha Wire Corp
Alti-temp—Wincharger Corp
Alti-vac—Rotron Mfg Co
Alto Fonic—Alto Fonic Music Systems
Aluflux—Auburn Mfg Co
Alumast—Channel Master Corp
Alum-A-Mast—Mech Steel Tubing
Alum-S-Stis—Mech Steel Tubing
Alumbond—Arthur Tickle Eng'g Works
Alumicoat—Arthur Tickle Eng'g Works
Alumina—Thermal Refractories
Alumaweld—Johnson Mfg Co
Alumon—Enthone Inc
Alundum—Norton Co
Aluzoom—JFD Mfg
Alro Pak—Alco Nut & Bolt
Alyonomik—Poole Instrument
Ambroit—Micamold Electronics
Ambroid—Ambroid Co
AMC—Arnold Magnetics
Amco—American Moistening Co
Amco—American Solder & Flux
Amco—Applied Magnetics Corp
Amcon—American Condenser
Ameco—American Electronics
Amerac—Amerac Inc
Amercoat—Amercoat Corp
Americord—Amer Communications
Amer-Dial—Amerac Inc
Amerglaz—American AirFilter
American—American Brass Co
American Elgin Nat'l Watch
American—Manning Maxwell & Moore
American Beauty—Amer Elec Heater
Amerite—American Tower
Amer-jet—American Air Filter
Amerplastic—American Elec Cable

BRAND and TRADE NAME INDEX

Amer-Plate—Amercopol Corp
 Amertran—Standard Electronics
 Div—Radio Eng'g Labs
 Amerwell—Standard Electronics
 Div—Radio Eng'g Labs
 Amertron—Standard Electronics
 Div—Radio Eng'g Labs
 Ameltron—Streeter Amet
 Amerwell—Standard Electronics
 Div—Radio Eng'g Labs
 Amglo—Amglo Corp
 Amnico—American Instrument
 Amnico-Aire—American Instrument
 Ampec—Centralab
 Ampos—American Metal
 Amplet—Devol Research
 Amplicall—Rauland-Borg Corp
 Amplicon—AM Inc
 Ampli-Speed—Electric Mch'y Mfg
 Amplitrol—Thermo Electric Mfg
 Ampli-Vision—Int'l Telemeter
 Amplivox—Amplivox Exports Ltd
 Am-Pax—Electric Machinery Mfg
 Amprobe—Pyramid Instrument
 Amp-trag—Chase-Shawmut
 Amrac—American Mica Radio
 Amrecon—Ohmite Mfg Co
 Anaconda—American Brass Co
 Analia—Anaconda Wire & Cable
 Analog—Spectrum Instruments
 Analysisystem—Analytic Systems Co
 Anamagraph—Campbell X-Ray
 Corp
 Analyst—Eastman Kodak Co
 Analyzer—Waters Mfg
 Anastar—Eastman Kodak Co
 Anastone—Eastman Kodak Co
 Anderometer—Micrometric Mfg
 Andrew—Andrew Antenna Corp
 Anet—Anet Bros
 Angenieux—Exakta Camera Co
 Anosel—Ansonia Wire & Cable
 Anoflex—Fez Co Neal
 Antalon—Green Rectifier Co
 Antenna—Clear Beam Antenna
 Anticline—Beam & Co Morris
 A-P—Allied Prods Corp
 APCO—Aurora Pump
 Acor—Actuator Products
 Apcor—Geartronic Corp
 Apco Auto-Stat—Amer Photo-
 copy
 Apello—Applied Electronics
 APW—Amer Platinum Works
 Aquadag—Acheson Colloids
 Aquasol—Gen'l Cable
 Aquatex—Isotope Products
 Aquathene—Gen'l Cable
 Aradite—Ciba Co
 Arbit—Industrial Development
 Labs
 ARC—Aircraft Radio Corp
 Arcan—Estern Ltd
 Arco—Borden Co
 Arc-escant—Luzor Lt'g Prods
 Arco-Match—Communications Co
 Argonne—Argonne Electronics
 Arnicite—Spaulding Fibre Co
 Armitronics—Labs Inc
 Arkey—Radio Kits Inc
 Armalon—DuPont de Nemours &
 Co
 Armaloy—Armstrong Bros Tool
 Armature—Johns-Manville
 Armcorp—American Research &
 Mfg
 Arnel—Arnel Electronics Inc
 Ar-Mets—Brooks Rotameter
 Armitex—Spaulding Fibre
 Amorphyl—Plywood Corp
 Arr—Antenna & Radome Re-
 search Assoc
 Arreston—Armstrong Corp
 Arrop—Pack & Harvey Sales
 Arrowhead—Sangamo Electric
 Arrowline—Hanson-Van Winkle-
 Munning Co
 Artic-Glo—Canadian Radium &
 Uranium
 Artisan—Electronic Organ
 Arular—Arnerberg Ultrasonic Lab
 Arvin—Arvin Industries Inc
 Asbestos—Auburn Mfg Co
 Asbestos Ebony—Johns-Manville
 Asco—Automatic Switch
 Ascor—American Speedlight
 Ascorlight—American Speedlight
 Asencor—Asac Eng'g Mfg Corp
 Aschroft—Manning Maxwell &
 Moore
 Asmo—Farelloy Co
 Asp—All Star Products Inc
 Astatic—Astatic Corp
 Astomix—Oberline Inc
 Astrumatic—Electronic Control
 Sys
 ATBee—Radiation Research
 Atcoltran—Automatic Timing &
 Controls
 Atcontrol—Automatic Timing &
 Controls
 Atomatic—Atomatic Valve Co
 Inc
 Atlas—Atlas Powder Co

Atlas—SKF Industries
 Atlas—Atlas E-E
 Atoton—Atoton Corp
 Atom—Sprague Electric Co
 Atom-At—Central Electronic
 Mfg
 Atomer—Maico Electronics Inc
 Atomic Jewel—Robbins Industries
 Atomtron—Atomic Labs
 ATR—American TV & Radio
 Atten-U-Card—Elektro-Serv Co
 A206—Nopco Chemical Co
 A210—Nopco Chemical Co
 Auburn—Auburn Mfg
 Auburn—Auburn Spark Plug Co
 Audel—Centralab
 Audicon—Audicon Electronics Inc
 Audigage—Branson Instrument
 Audison—James Inst Lab
 Audio-Aid—Ansley Mfg Arthur
 Audio—Green Charlton L
 Audio Chief—Audio Equip Co
 Audio Director—Audio Equip Co
 Audiometrics—Audio Devices Co
 Audioidis—Audio Devices Co
 Audiograph—Gray Mfg
 Audio Graphic—Graphic Recorders
 Bel-Clear—Audio Equip Co
 Audio Mailer—Audio Equip Co
 Audiotron—Rockbar Corp
 Audiopoints—Audio Devices
 Audioscope—Audio Master
 Audiotype—Audio Devices
 Audio-Tone—Audio-Master
 Audio-Tone—Graphic Recorders
 Audiotone—Jensen Mfg Co
 Audiotron—Ferratran Electronics
 Audio-Vendor—Cousino Inc
 Auduxlex—Electronics Devel
 Audivo—Aurivox Inc
 Audiograph—Gray Mfg Co
 Audiogram—Inst Instrument Co
 Auricon—Berndt-Bach Inc
 Aurix—Flight Research
 Auth—Auth Electric Co Inc
 Autocord—DeSign Tool Corp
 Autocrat—Autocrat Electronics
 Auto-Dine—Simplex Equip
 Autodrive—Audio-Master Corp
 Autograf—Moseley Co F L
 Autographic—Pictors—Gilmore
 Industries
 Auto-Lytic—Sprague Electric
 Automostat—Campbell X-Ray Corp
 Autopel—Deagan Inc J C
 Autopositioner—Collins Radio
 Autopower—Safe Flight Inst
 Corp
 AutoRef—Thermo Electric
 Autoseit—Bristol Co
 Autosweep—Audio Instrument
 Autosyn—Eclipse Pioneer
 Auto-Tap—Automatic Methods
 Autotek—Optimized Devices Inc
 AutoTone—Auto-Test Inc
 Autotronics—Autotronics Inc
 Autotron—Autron Eng'g Inc
 Autotune—Collins Radio
 Autovac—Cons Electrodynamic
 Auto-Zoom—Perkin-Elmer Corp
 Auxmatic—Polystyrene Inc
 Avcom—Avco Mfg Corp
 Avigator—Mittell Industries
 A. W.—Wood Steel Co Alan
 Axel—Axel Electronics
 Asimara—Rotron Mfg Co
 Axon—Rockbar Corp
 Axivane—Joy Mfg Co

Bar-Ray—Bar-Ray Products
 Barry—Inso Company
 Barrymuntz—Barry Controls
 Bart—Bart Mfg Corp
 Baseball—Antenna Specialists
 Baso—Baso Inc
 Bassett—Bogert-Jenssen Inc
 Bass Ultraflex—Jensen Mfg Co
 Bat—Auto-Test Inc
 Bat—Lavoie Labs Inc
 Bat's Eye—Kennedy D S
 Battery Scope—Christie Electric
 BBZ-01—Manson-Van Winkle-
 Munning Co
 BCI Nylons—Belding Corticella
 Indust
 BD Meters—Beebe Electrical Inst
 Beam Echo—Majestic Int'l Sales
 Beam Power Rotaries—Telrex
 Labs
 Bear—Behr-Manning Co
 Beautronic—Wagler Inc
 Becbro—Beck Bros
 Bechler—Cosa Corp
 Beechwood—Hanson-Van Winkle-
 Munning Co
 Behr-Cat—Behr-Manning
 Bel-Clear—St Cecilia Co
 Belco—Bogue Electric Mfg Co
 Bel Eire—Apex Coated Fabrics Co
 Belgrade—Hanson-Van Winkle-
 Munning Co
 Bellectron—Moore Assoc Inc
 Benchpac—Specific Products
 Benchmaster—Benchmaster Mfg
 Co
 Benelux—Masonite Corp
 Benflex—Bendis Scintilla Div
 Ben-Har—Bentley Harris Mfg
 Ben-Har—Bentley Harris Mfg
 Benseal—Bendis Scintilla Div
 Berg—Erikson Specialized Tool
 Berlay—Driver Co Wilbur B
 Berlox—Thermal Refractories
 Berylic—Beryllium Corp
 Beryllia—Thermal Refractories
 Best—Beam Instrument Corp
 Betachron—Patterson Moos Div
 Universal Winding
 Beta Gauge—Tracerlab Inc
 BFC—Bernard Franklin Co
 BH—Bentley Harris Mfg
 Sib—Ercona Corp
 Bi—Multiple Solders Ltd
 Bi-Matic—Lansing
 Big Jack—Jack-Towmes Antenna
 Bimex—Moeller Instrument
 Bi-Ner—Johnson Co E F
 Bin-Eye—Jeffrey Mfg
 Biraco—Birnbach Radio
 Birflex—Birnbach Radio
 Birflex—Birnbach Radio
 Birphon—Birnbach Radio
 Bisonic—Dynamu Magnetronics
 Bitugloss—Koppers Co
 Bitumastic—Koppers Co
 BIW—Boston Insulated Wire
 Black Beauty—Sprague Electric
 Black—Bliss Mfg Co
 Black-Ray—Black Light Corp of
 America
 Black-Ray—Ultra-Violet Products
 Blastocord—Geotechnical Corp
 Blind-Blots—Hi-Shear Rivet
 Tool Co
 Blind-Nut—Hi-Shear Rivet
 Tool Co
 Blind Rivet—Huch Mfg Co
 Blue Diamond—Pioneer
 Gen-E-Motor Corp
 Blue Jacket—Sprague Electric Co
 Blue-Point—Atron Corp
 Blue Shaft—Centralab
 Blu-Mol—Mullers Falls Co
 Blu-Red—Assoc Amer Trading
 Div
 Blutex—Paul F H & Stein Bros
 Boardmaster—Graphic Systems
 Board-Martley Products Co
 Bolab—Bolton Labs
 Bold Daylight—Lwrtz Chemicals
 Bolta-Gra—Bolta Prod Div
 Boltaron—Bolton Prod Div
 Bondeze—Pheps Dodge Copper
 Bondmaster—Rubber & Asbestos
 Bonnytape—Bonny Mfg Corp
 Boost-A-Volt—Workman TV Inc
 Boronol—Aerovox Corp
 Boronol—Allied Resinoid Prod
 Boscar—Benson-Lehner
 Bospat—Workman TV Inc
 Bostomatic—Magnetic Devices
 Bow Flector—Channel Master
 Corp
 Bow-Flector—JFD Mfg
 Boxmaster—United Shg
 Machinery
 BPW—Bradford Components
 Boy-Mar—Electrical Service
 Bradco—Fen-Tone Corp
 Braloy—Brainin Co S
 BRAVIA—Bram Metallurgical &
 Chemical
 Bramtex—Bram Chemical

Brands—Cannon C O F
 Brasslyte—Logo Inc
 Brassply—National Standard Co
 Brazaloy—All-State Welding
 Alloys
 Brazeclad—American Silver Co
 Brazze Mark—Breeze Corp
 BRG—Budelman Radio Corp
 Brenell—Fen-Tone Corp
 Brick-Phoenix—Phoenix Precision
 Wire
 Bridger—Audio Inst
 Bright Gold—Sel-Rex Corp
 Brimston—Electro-Chemical Eng'g
 Bristol—Vocaline Co
 Bristol's—Bristol Co
 Broadband—Topatron Inc
 Bronco—Western Insulated Wire
 Bronco—Western Insulated
 Wire
 Broncolon—Western Insulated
 Wire
 Brown Devil—Ohmite Mfg Co
 Brunt—Parr Mfg Corp
 B-EO—Nopco Chemical Co
 BTF—Hanson-Van Winkle-
 Munning Co
 Bubbler—Automatic Control Co
 Bulkbinder—Gerrard & Co J
 Bullneck—Hanson-Van Winkle-
 Munning Co
 Bluplate—Sprague Electric
 Bund-L-Tite—Dabola Eng'g Inc
 Burnley—Burnley Battery & Mfg
 Bushings—Raybestos-Manhattan
 Inc
 Butacite—DuPont de Nemours &
 Co
 Buss—Bussman Mfg Co
 Butarone—General Cable
 Butobars—Audio-Master Corp
 Buton—Audio-Master Corp
 Button—Erie Resistor
 B & W—Babcock & Wilcox Co
 B & W—Barker & Williamson
 B W Floatless—B W Controller
 Corp
 Bypass—Brooks Rotameter

C

Cab-L-Tite—Dakota Eng'g
 CAC—Controlled Atmosphere
 Enclosures
 Cadalux—Hanson-Van Winkle-
 Munning Co
 Cadalite—DuPont de Nemours &
 Co
 Cado—Electronic Specialty Co
 CAE—Controlled Atmosphere
 Enclosures
 Caiphonite—Femo Inc
 Calibour—Stoelting Co C H
 Calcom—Bennett Labs
 Calcon—Calcon Mfg Co
 Cal-Conn—Cal-Connector Co
 Caliform—Shamban Eng'g Co
 Caliform—Caliform Eng'g Co
 Calmrol—Calidyne Co
 Calmag—Calif Magnetic
 Cal-Dhm—Cal-Dhm Labs
 Caltron—Caltron Prods
 Caltron—Caltron Prods
 Cambion—Cambridge Thermionic
 Camel Bearing—Controls Co of
 America
 Camerflex—Camerflex Corp
 Camtran—Campbell X-Ray
 Camtrol—Lear Inc
 Camtrol—Lemert Eng'g Co
 Canada—Lenz Elec Mfg
 Canadian—Measurement Eng'g Ltd
 Candoc—Cudner & O'Connor Co
 Candohm—Muter Co
 Cannon—Cannon Electric Co
 Cannon-Ball—Cannon Co F F
 Cannon Plug—Cannon Electric
 Canseal—Cannon Electric
 Canto-Chime—Deagan Co J C
 Capacitex—Telecast Inc
 Capacitors—Plastic Capacitors Inc
 Capadyn—Mullenbach Div
 Capaswitch—Mullenbach Electrical
 Capillary—Air & Refrigeration
 Corp
 Capitol—Hanson-Van Winkle-
 Munning Co
 Capitrone—AMP Inc
 Caps—Caps & Co
 Capri—Sonic Industries Inc
 Captain—Medal Mfg Co
 Carbamp—Bendix Red
 Carbolim—Aerovox Corp
 Carb-Ohm—Phosatron Instrument
 Carbonyl—Atlas Mineral Prod
 Carbomatic—Carbolim Co
 Carboronite—Continental Carbon
 Car Call—Hy-Gain Antenna Prods
 Car Call—Seely Electronics
 Cardatron—Electrodata/Burroughs
 Corp
 Carlon—Radio Corp of America
 Carlionic Bells—Schulmerick
 Electronics

Carl—Ercona Corp
 Carmel—Allegheny Ludlum Steel
 Cartri-J—Pyramid Elec
 Cartriseal—Cartriseal Corp
 Cartwheel—Aerovox Corp
 Carryphone—Union Switch &
 Signal
 Cary—Applied Physics
 Casader—Jerrold Electronics Corp
 Casco—Borden Co
 Cascade—JFD Mfg Co
 Cash-Acme—Cash Valve Mfg
 Castiplast—Nat'l Eng'g Prods
 Castohm—Shallcross Mfg Co
 Castordag—Acheson Colloids
 Cal Brand—Cascade Research
 Cathaloy—Superior Tube Co
 Cathedral—Cleveland Electronics
 Cathode Nuclei—Driver Co
 Wilbur B
 Cathodeon—Pye
 Telecommunications
 Cathoson—Cinema-Television
 Cavimeter—Poole Instrument
 Co
 C-B—Caddell-Burns Mfg Co
 C-Brill—Perrin Power Co
 CBS—CBS Hytron
 C C M—Meredith C C & Co
 CDM—Curis Development & Mfg
 CECO—Camera Equipment Co
 Ceco—Community Eng'g Corp
 Ceco-Sweep—Community Eng'g
 Corp
 Ccoco—Communication Equip &
 Eng'g
 Celab—Clark Electronic Labs
 Celesta Chime—Deagan J C
 Cell-Type—Ace Eng'g & Machine
 Felton—Continental Diamond
 Fibre
 Cenco—Central Scientific Co
 Cencol—Central Coil Co
 Center-Line—Topatron Inc
 Centi-Lo—Chicago Industrial Inst
 Centi-Low—Barnett Instrument
 Central—Central Electronic Mfgs
 Inc
 Centrathene—Centralab
 Centrix—Century Projector
 Cen-Tri-Core—Alpha Metals
 Centroid—Tensor Elec Level
 Cerafil—D-Q Div Aerovox
 CerAlloy—New Process Metals
 Cer-Lytic—Sprague Electric
 Ceramag—Stackpole Carbon
 Ceramagnet—Stackpole Carbon
 Ceramex—Erie Resistor Corp
 Ceramics—Muter Co
 Ceramic Flammespray—Montaine
 Ceramite—Consolidated
 Electrodyamics
 Ceramics—Erie Resistor
 Ceramite—Sprague Electric
 Ceramo—Thermo Elec Co
 Ceroc—Sprague Electric
 Cer-Ohm—Bradford Components
 Cerobase—Cerro De Pasco Sales
 Cerroband—Cerro De Pasco Sales
 Cerrosalt—Cerro De Pasco Sales
 Cerrolow—Cerro De Pasco Sales
 Cerromatrix—Cerro De Pasco
 Sales
 Cerrosafe—Cerro De Pasco Sales
 Cerrotur—Cerro De Pasco Sales
 Certified—Certified Radio
 Cetron—Continental Elec Co
 Chace—Chase W M Co
 Chain-Mate—Radix Wire Co
 Challenger—Drier Bros
 Challenger—Channel Master Corp
 Challenger—Boogen David
 Challenger—Da-Lite Screen
 Challenger—Rek-O-Kut Co
 Champion—Champion Lamp Works
 Change-A-Cycle—Carter Motor
 Change-A-Volt—Carter Motor
 Channel-Duct—Glastic Corp
 Chapsman—Ercona Corp
 Character—Stromberg-Carlson
 San Diego
 Charalyzer—Christie Electric
 Corp
 Chase—Chase & Sons Inc
 Chase—Chase Brass & Copper
 Chasebostons—Chase & Sons Inc
 Check Master—Standard Gage Co
 Checkall—Boltor Lab
 Chemalloy—Kahl—Chemalloy-Elect
 Chemalox—U S Gasket
 Chemiflex—Technicraft Co
 Chemigas—Technicraft Co
 Chemion—Crane Packing Co
 Chem-o-sol—Chemical Products
 Chemo-Tape—Chemo
 Chem-Tex—Polymer Industries
 Chemvol—Richardson Co
 Cherry—Townsend Co
 Cherterflur—Cherter Cable Corp
 Chicago—Chicago Standard
 Transformer
 Chief—Audio Equip Co Inc
 Chico—Chicago
 Chlorolux—Luxor Lighting Prod
 Chobert—Aviation Dev Inc

BRAND and TRADE NAME INDEX

Chromalox—Wiegand Co Edwin L
 Chromas—Driver-Harris Co
 Chromatop—Spencer-Kennedy Labs
 Chromatron—Chromatop TV Labs
 Chromatron—Liton Industries
 Chromel—Hoskins Mfg Co
 Chronostat—Bergen Labs
 Chronistor—Bergen Labs
 Chronohm—Bendix Red Bank
 Chrono-Log—Chrono-Log Corp
 Chronotrol—Philips Instrument Labs
 Chronotron—Bendix Red Bank
 Ciba Alardite—Ciba Co
 Cinderella—Channel Master Corp
 Cineflex—Camerflex Corp
 Cineplex—Tarc Electronics
 Cine-Kodak—Eastman Kodak Co
 Cine-Phone—Cinema Eng Corp
 Cintel—Cinema Television Ltd
 Cintel—Marconi Instruments
 Circle B—Vocaline Co of America
 Circle Ess—Stewart Corp F W
 Circle Seal—James Pond & Clark
 Circolor—Ramsco Corp
 Circon—Circon Component Corp
 Circon—Univ Circuit Control
 Circuiter—Oberline Inc
 Circuiter—Hunter Tools
 Circutrol—Continental Elec Equip
 Cir-Pak—Hildebrand John G
 Cir-Phone—Formica Corp
 Citi-Fone—Mits Products Co
 City-Vee—Channel Master Corp
 CK—Farmer Electric
 CKL—Huck Mfg Co
 C-L Board—Century Lighting
 Clampage—Mueller Electric
 Clarkstar—Pacific Transducer
 Clarat—Clarat Mfg Co
 Class-H—Mica Insulator
 Classmaster—Nuclear Chicago Corp
 Clauss—Clauss Cutlery Co
 CL-Board—Century Lighting
 Clear Lite—Ace Electric Mfg
 Clear-Print—Pharos Process Co
 Clear-tone—Amer Sound Products
 C-Lector—Century Lighting
 Cletron—Cleveland Electronics
 Cletron—Cletron Inc
 Cleveland Tapping—Townsend Mfg Co H P
 Clevelett—Cleveland Container
 Climaster—Clegg Labs
 Climax—Hanson-Van Winkle-Munning Co
 CL Line—Clarostat Mfg Co
 Clipper—Hanson-Van Winkle-Munning Co
 Clipper—Johns Manville
 Clipper—Sterling Transformer
 Clock-Timer—Int'l Register
 Cloinol—Sprague Electric
 Cloudmaster—Nuclear-Chicago Corp
 C-S—G-V Controls Inc
 Clutch Head—United Screw & Bolt
 CM—Chicago Miniature Lamp Works
 CML—Communications Measurements Lab
 Coaxguide—Airtrol Inc
 Coaxial—Precision Tube Co
 Cobanic—Driver Co Wilbur B
 Cobehn—Cobehn Inc
 Cobenium—Driver Co Wilbur B
 Cobreflex-2—University Loudspeakers
 C O C—Hammelund Mfg Co
 Cochrone-Bly—Townsend Mfg Co H P
 Code-10—Atkinson Lab Inc
 Cochristic—Conn Hard Rubber
 Coli Kraft—Harford City Paper
 Collenna—Electrend Products
 Colac—Lenz Elec Mfg
 Colbar—Rorback Corp
 Colonial—Colonial Alloys
 Color—Trio Mfg Co
 Colorbeam—Tennalab
 Colorbot—Musicolor Inc
 Color Ceptor—Wiegand Co
 Color Cord—Pacific Electric Cord
 Color-Eye—Instrument Devel Labs
 Colorite—Trio Mfg Co
 Color-Plexed—Thorn & Bell Co
 Color-King—Channel Master Corp
 Color-Scope 260—Simpson Electric Co
 Colorscope—Tarc Electronics
 Colorstenna—Tennalab
 Colortran—Natural Lighting Corp
 Color View—Thorn & Bell Co
 Colomat—Toner Mfg Co
 Columbia—Columbia Electric Mfg
 Comet—Atron Corp
 Comet—Anchor Products Co
 Comet—Da-Lite Screen
 Comet—Driver-Harris Co
 Comco—Communications Co
 Commando—Drier Bros Inc
 Commando—Shure Bros

Co-Mo-Trol—Welltronic Co
 Compack—General Cable
 Comcast—Assembly Products Inc
 Comcompact—Victory Eng
 Com-Pak—Lambda Electronics
 Companion—Pilot Radio Corp
 Compenal—Clary Eng
 Compenal—Central Eng
 Compron—Compron Corp
 Computerette—Aero Electronics
 Comp-U-Trim—Eastern Precision Resistor
 Comtel—Radio Frequency Labs
 Com-Tronics—Com-Tronics Inc
 Comvor—Radio Frequency Labs
 Conaleri—Kear Eng Corp
 Concentrik—Int'l Resistance
 Concert—Jensen Mfg Co
 Concentrator—Audiomation Labs
 Concerto—Jensen Mfg Co
 Concor—Raybestos Manhattan
 Conco—Edict Instruments
 Con-Netic—Perfection Mica
 Con-Fer-Phone—Simpson Mfg Co Mark
 Confessionaire—Audio Equip Co
 Confidencer—Roanwell Corp
 Conzal—Bean-Tetex Labs
 Conner—Organ Corp
 Connoisseur—Erona Corp
 Conneticut—Stueck Inc W Whitney
 Connect-O-Matic—Wiggins Oil Tool Co E B
 Conn-Organs—Conn Ltd C G
 Conplate—La-Moore C D
 Conolon—Narmco Resins & Coatings Co
 Conrac—Conrac Inc
 Con-Rad—Controls for Radiation Inc
 Conscitrol—Consolidated Controls Corp
 Constat—Millon Roy Co
 Constavac—Green Rectifier Co
 Constellation—JFD Mfg Co
 Contemporary—Jensen Mfg Co
 Continental—Continental Carbon Div
 Contour Projectors—Optical Gaging Prods
 Control—Control Div Magnetics
 Control-A-Matic—Rockwell Eng'g Div
 Controlax—Vickers Inc Electric Prod Div
 Control-Guards—D & M Products
 Convection—Bendix Red Bank
 Cook—Cook Laboratories Inc
 Copel—Hoskins Alloys of Canada
 Coppeclad—The Rex Corp
 Copper Jac—Channel Master Corp
 Copper Klad—St Elor Corp
 Copper Plate—Bigelow Metallizing Chem
 Copperply—National Standard Co
 Copperplate—Copperwell Steel
 Coppral-ite—DuPont de Nemours & Co
 Coprox—Bradley Labs
 Coprox—Corbin Corp
 Corner-Reflex—JFD Mfg Co
 Corner Reflector—Channel Master Corp
 Corning—Corning Glass Works
 Corona—Peschel Electronics
 Corselite—Reliance Paint Co
 Corson Div
 Corston—Ohmite Mfg Co
 Cortham—Lindberg Eng'g Co
 Cosair—Hudson American Corp
 Corvel—Jama: Prod Co
 Corvette—JFD Mfg Co
 Corvox—Rim Chemicals Inc
 Cor-Vox—Stanley Webster Labs
 Cosmotel—A & D Electronics
 Cossu—Beam Instrument Corp
 Co-Therm—Hoskins Eng'g Co
 Cotton Covered—Phelps Dodge Copper
 Cottontite—Acme Wire
 Coulter-Counter—Coulter Electronics
 Counterbalance—Cook Electric Co
 Countometer—Apparatus Dev Co
 Couplate—Centralab
 Courier—Johnson Co E F
 Cox & Stevens—Revere Corp of Amer
 CPPC—Clifton Precision Prods C O T—Chase-Shawmut
 C & R—Automatic Control Co
 Crablot—Burdny Corp-Omaton
 Craftint—Craftint Mfg Co
 Craftone—Craftint Mfg Co
 Craftsmen—Precision Radiation Instruments
 Crig—Carbide & Carbon Chemicals
 Cramolin—Caig Labs
 Crane-Trol—Insul-8-Electronics
 Crescent—Crescent Insulated Wire & Cable
 Crescent—Warwick Mfg Corp
 Crestban—Crest Transformer Corp

Crestbrite—Crest Transformer
 Crestone—Armstrong Cork
 Cresttran—Crest Transformer
 Crestrol—Crest Transformer
 Crestul—Crest Transformer
 Crimpwell—Electric Terminal Corp
 Crimcut Tools—Vaco Products
 CRL—Centralab
 Croart—Croname Inc
 Crodon—Chromium Corp of Amer
 Croflex—Croname Inc
 Croflex—Waldom Electronics
 Croloy—Aerovox Corp
 Croloy—Baltcock & Wilcox
 Cromag—Aerovox Corp
 Cromax—Crowley Div Aerovox
 Co-Mesh—Croname Inc
 Cromin D—Driver Co Wilbur B
 Croname—Waldom Electronics
 Cro-Roto—Croname Inc
 Cro-Rolo—Waldom Electronics
 Crosby—Amer Hoist & Derrick
 Crossovers—Glass Products Co
 Crow—Universal Scientific Co
 Cro-Weave—Croname Inc
 Crown—Int'l Radio & Electronics
 Crown-Matic—Int'l Radio & Electronics
 CRT-300—B & M Mfg Co
 Crown—Trimount Instr Co
 Cro-Art—Croname Inc
 Croloy—Crowley Div Aerovox
 Crusader—Hudson American Corp
 Crusader—Transitec Inc
 Crystolon—Norton Co
 C S F—Chicago Steel Furnace
 CTC—General Railway Signal Co
 CTS—Chicago Telephone Supply C T S—Meredith C C & Co
 C-Thru—C-Thru Ruler Co
 Cummins—Cummins-Chicago Corp
 Cuplat—Western Gold & Platinum
 Cuprochrome—Driver Co Wilbur B
 Cupro—Riverside—Alloy Metal Porter Co H K
 Cupron—Driver Co Wilbur B
 Cuprothal—Kanthal Corp
 Current Governor—North Hills
 Cure-X Cassette—Campbell X-Ray
 Cushiontone—Armstrong Cork
 Cushl—Western Gold & Platinum Co
 Cusol—Seymour Mfg Co
 Customax—Oberline Inc
 Customode—Jensen Mfg Co
 Cushiontone—Armstrong Cork
 Cuto Pipe—Nuclear Chicago
 CW-26—Radio Corp of America
 Cy-an-in—Indium Corp of America
 Cycloc—Marbon Chem Borg-Warner
 Cycloam—Aeromag Inc
 Cyclohm—Howard Industries
 Cyclome—Sinma Instruments Inc
 Cyclo—Balleau Elect Corp
 Cycrom-X—Balleau Elect Corp

D

Daco—Daco Instruments
 Daclyte—DuPont de Nemours & Co
 Dacralite—Electric Auto-Lite Co
 Dag—Acheson Colloids
 Dage—Dage TV
 Dage CBS—Dage Electric Co
 Dagle—Acme Wire
 Dagle—Phelps Dodge Copper
 Daisey—Huck Mfg Co
 Daisy—Rivet—Huck Mfg Co
 Daka-Ware—Davies Molding Co H
 Dale—Dale Products Inc
 Dalmotrol—Dalmotrol Co
 Dalohm—Dale Products
 Daltan—Vulcan Electric Co
 Dampometer—Oltrox Co
 Dampo-Chaser—Dampo-Chaser Inc
 Dancetrol—Jordan Co Inc
 Dandet—Aerovox Corp
 Dander—Hanson-Van Winkle-Munning Co
 Darn—Rian Co S C
 Dard—Dewey Aviation Radio
 Dares—Dawson & Almy
 Darsil—DuPont
 Darsil—Navigation Devices Inc
 Data-Gap—Texas Instruments
 Datafile—Electrodatta Burroughs Corp
 Datagraph—Consolidated Electro-dynamics
 Datahor—Airtronics Inc
 Data-Liner—Hanson-Gorrill-Brian
 Data Logger—Kvbernetes Corp
 Data Loggers—Hanson-Gorrill-Brian
 Datamaster—Consolidated Electro-dynamics
 Data-Master—Hanson-Gorrill-Brian

DATAmastic 1000—DATAmatic Corp
 Dataplotter—Electronic Assoc
 Data Recorder—Hanson-Gorrill-Brian
 Datarite—Consolidated Electro-dynamics
 Datascope—Benson-Lehner Corp
 Datasync—Berndt-Bach
 Datatab—Consolidated Electro-dynamics
 Datatron—ElectroData Corp
 Datatron 205—Electro Data Div Burroughs
 Datatron 220—Electro Data Div Burroughs
 Datrax—Esco Inc
 Datran—Datran Corp
 Dauntless—Defence Eng'g & Microwave
 Davenoil—Daven Co
 Davey—Broscote Co
 Davey-Minn-Honeywell Davies Lab Div
 Davohm—Daven Co
 Dazic—Winterburn Mfg
 Dazor—Dazor Mfg Corp
 DC—Dinon Coil Co
 DC-Pak—Bendix Red Bank
 DeArmmond—Rowe Inc
 DEC—Digital Equip Corp
 Decalator—Decade Instrument
 Decasol—Decimeter Products
 Deca-Sweep—Decade Instrument
 D E C I—Dwyer Eng'g Co Inc
 Decitron—Post Machinery Co
 Decbel—Cosa Corp
 Deceptograph—Stoetting Co C H
 Dechohm—Davis Electric Co
 DeDance—All Star Prods
 Dehydrator—Wagler
 DeJur—DeJur-Amsco Corp
 Dekaboxes—Electro-Measurements
 Dekabridge—Electro-Measurements
 Dekadial—Electro-Measurements
 Dekamix—Erona Corp
 Dekapacitor—Electro-Measurements
 Dekapots—Electro-Measurements
 Dekastat—Electro-Measurements
 Dekatron—Baird-Atomic Inc
 Dekatron—Electro-Measurements
 Dekavider—Electro-Measurements
 Dekhotinsky—Central Scientific Co
 Del—Del Electronics Corp
 Deltamax—Arnold Eng'g Co
 Delta Meter—Miljan Inc
 DeltaSwitch—Detroit Controls
 Delta-Tenna—Western Gear Corp
 Delta-Weid Yag—Channel Master Corp
 Demco—Makepeace Dev Englehard Industries
 Demitron—Unit Process Assemblies
 Den-EI—Electric Cord
 Denrad—Denrad Mfg Co
 Densite—W Va Pulp & Paper
 Densimeter—Lectra Labs
 Denzil—Precision Thermometer
 Densitron—Instruments Inc
 Deoxide—General Cement Mfg
 Deozo—Englehard Industries
 Depolaray—Saine Equip Lab
 Depolaray—Saine Equip Lab
 Deramic—Erie Resistor Corp
 Derbylite—Lumac Resins
 Dermaflex—Paric Technical Co
 Desco—Diets Design
 Desh-Temper—Universal Drafting Machine
 De-Snower—Jerrold Electronics
 DeSoliv—Ram Chemicals Inc
 Detect-A-Fire—Fenwal Inc
 Detect-O-Ray—Detect-O-Ray Co
 DETERMOHM—Ohmite Mfg Co
 Detectolab—B J Electronics
 Devco—Chemical Development Corp
 Develco—Developmental Electr
 Di-Acro—O'Neil-Irwin
 Di-Apex—Apparatus Devel
 Di-A-Matic—Amer Photocony Equip
 Dialco—Dialight Corp
 Dialgo—Ackerma Engravers
 Diall—Mesa Plastics
 Dialmatic—JFD Mfg Co
 Diamond H—Hart Mfg
 Diamond—Jordan Co Inc
 Diamond—Cannon Electric Co
 Diamond Vulcanized Fibre—Continental-Diamond Fibre
 Diamond Weave—Gen'l Instrument
 Diamonite—Diamonite Products Mfg
 Dialtron—Consolidated Electro-dynamics
 DIC—Cannon Electric Co
 Di-Caps—Diectron Div Gudeman
 Dico—Diamond Microwave Corp
 Dictabel—Dictaphone Corp
 Dictel—Dictaphone Corp

Dietlex—Insulation Mfrs
 Diethyl—Grafo Coloids
 Diets—Henry & Diets Co
 Diffaxial—University Loudspeakers
 Diffusione—University Loud-speaker
 Di-Flector—Channel Master Corp
 Digi-Coater—Fischer & Porter
 Digi-Com—Endevco Corp
 Digidel—Jacobs Instrument Co
 Digidial—Helipot Corp
 Digidmatic—Electronic Control Systems Div Stromberg-Carlson
 Digiplot—Endevco Corp
 Digiplier—Jacobs Inst Co
 DigiScan—Intelligent Machines Corp
 DigiStep—Lytle Eng'g & Mfg
 DigiStepper—Coleman Eng'g
 DigiSwitch—Anatron Div Endevco Corp
 Dignisy—Adcon Corp
 Digitally—Anatron Div Endevco Corp
 Digitape—Benson-Lehner Corp
 Digitizer—Coleman Eng'g Co
 Digitometer—Electra-Mec Lab
 Digtork—Teiler Co
 Digtote—Anatron Div Endevco Corp
 Digit-matics—Victor Adding Machine
 Digitronic—Welltronic Co
 Digiwriter—Radio Frequency Labs
 Di-Jell 171—Sonneborn Sons L
 Dikrothal—Kanthal Corp
 Dileco—Continental Diamond Fibre
 Dimco—Dimco-Gray
 Dimens-Fones—Permoflux Products
 Dimensionair—Federal Products
 Dimtelco—Ameralco Corp
 Dimunette—Linlar Inc
 Dimunette—Permoflux Prods
 Dinemst-Fones—Linlar Inc
 Dinom—Chemical Process
 Dipolot—Dielectric Materials Corp
 Dipot—Servonics Inc
 Dip-Pac—Fidelity Chemical
 Di-Profile—Emis Equipment Co
 Direct-A-Call—Cann Telephone
 Director—Infra Electronic
 Direct Reader—Baird-Atomic Inc
 Directrol—Automatic Control Co
 Director—Miller Co Sanford
 Diectronic—Snyder Mfg Co
 Diron—Peerless Products Ind
 Dispatcher—Shure Bros
 Distributape—Monroe Calculating Machine
 Di-T—United Transformer Corp
 Di-Universal—Huck & Co Inc
 Di-valve—Westrex Corp
 Divco—Division Lead Co
 Dividohm—Ghmitte Mfg Co
 Dixon—Nat'l Vulcanized Fibre Co
 Dixon—Dixon Crucible Co Jos
 D M Y S E—Dynamatic—Teletest Inc
 D N A—Worsons Inc
 Doc Allins Kit—All-State Welding Alloys
 Do-Do—JFD Mfg Co
 Do-T—United Transformer
 Double-Bow—Channel Master Corp
 Double-Duty—Sel-Rex Corp
 Double-Flector—Channel Master Corp
 Double-Header—Antenna Specialists Co
 Doublex—Johns-Manville
 Dow-Key—Dow-Key Co Inc
 DPR—Hardman Co Inc H V
 Dsaffette—Miller & Assoc David
 Drake—Nat'l Screw & Mfg Co
 Drawtex—Stevens Paper Mills
 Dredznught—P Wall Mfg Co
 Dremel—Dremel Mfg Co
 Dri-Box—Temperature Eng'g
 Dri-ink—Flogul Products
 Dri-Stat—Peerless Photo Prod
 Dritherm—North Amer Electric Lamp
 Dri-Tan—Land-Air Inc
 Dri-Wyned—Republic Fuel & Metal
 Drygal—American Solder & Flux
 Drymatic—Abeon Supply Co
 DSP—Dry Screen Process Inc
 Du—Beckman
 Du-al—Electro-Wire Assemblies
 Duall—Hartley Products Co
 Dual—United Audio Products
 Dual Chronotrol—Audiomation Labs
 Dualite—Bell & Gossett
 Dual-Lock—Simmons Fastener
 Duax—Jens Mfg Co
 Duco—Du Pont
 Duette—Jensen Mfg Co
 Du-Kane—DuKane Corp
 Du-Lan Polihethylene—Koppers Co
 Du-Lite—DuPont de Nemours & Co

BRAND and TRADE NAME INDEX

- Dulux—DuPont de Nemours & Co
 Dumont—Dumont Labs Inc & B
 Duo-Band—Telerec Labs
 Duocarb—Driver Co Wilbur B
 Duodial—Helipot Corp
 Duodisc—Duotone Co
 Duofonic—Paralogs Mfg Co
 Duo-Kap—Centralab
 Duometer—Advanced Instruments
 Duo Mount—South River Metal Prods
 Duop—General Control Co
 Du Op—General Control Co
 Duo Seal—Welch Mfg Co W M
 Duo-Tenna—Waldom Electronics Inc
 Duotrol—Automatic Control Co
 Duo-tronic—Wappler Inc
 Duo Volt—Carter Motor Co
 Dup-Corder—Polytronics
 Duplex—Aflax Lansing Corp
 Duplican—Can Radium & Uranium
 Duplitate—Polytronics
 Duracel—Seager Standard Carbon
 Duracore—Co-Operative Ind
 Duraflex—Co-Operative Ind
 Durath—Durath Corp
 Durathine—Universal Drafting Machine
 Durathite—Durath Corp
 Duranickel—Int'l Nickel
 Duranyl—Durath Corp
 Duramic—Aerovox Corp
 Duranite—Aerovox Corp
 Duraprint—Durath Corp
 Durasteele—General Plastics
 Durez—Durez Plastics Div Hooker Electrochemical
 Durobrite—DuPont de Nemours & Co
 Durokote—Electro-Chemical Eng'g
 Duron—Electro-Chemical Eng'g
 Durogreen—Electro-Chemical Eng'g
 Duro XXX—Electro-Chemical Eng'g
 Dursoint—Duotone Co
 Dustronic—Radex Corp
 Dustube—Sheelbrator Corp
 Dutch Brand—Johns-Manville
 Duxtal—Johns-Manville
 Duz-All—CBC Electronics
 D & W—Dolinko & Wilkens
 DX Radio Products—DX Radio Products
 Dykor—Digitronics Corp
 Dykote—Koppers Co
 Dynamtherm—Guld Electronics Inc
 Dynagraph—Annis Co R B
 Dynaco—Dyna Co
 Dynacore—Dynamic Gear Co
 Dynacon—Nuclear-Chicago Corp
 Dynacounter—Dynacon Corp
 Dynage—Photocon Research Prod
 Dynabit—Dyna Co
 Dynamag—Dynamics Research
 Dynamaster—Bristol Co
 DynaMatic—TeleTest Inst Corp
 Dynamic—Dynamic Electronics
 Dynamic—Jackson Elect Inst
 Dynamapack—Cable Electronics
 Dyna-Mix—Industrial Electronics
 Dyna-Pak—Bendix Red Bank
 Dynapower—General Electric
 Dynaprobe—Bristol Co
 Dyna-Q—K-W Eng'g Works
 Dyna-Quib—B & K Mfg Co
 Dyna-Scan—B & K Mfg Co
 Dynastar—United Shoe Machinery
 Dynaset—Telex
 Dynastroke—Mandrel Ind Instru-ments
 Dynatec—Dynamics Research
 Dyna-Therm—Guld Electronics
 Dyna-Torg—Dynamic Div Eaton Mfn Co
 Dyn-Aut-Ronic—Gisholt Machine Co
 Dynaval—Scott Inc M H
 Dynavest—Mandrel Industrial Inst
 Dynawood—Dynwood Corp
 Dynex—Dyrex Inc
 Dynograph—Offner Electronics
 Dynograph—Annis Co R R
 Dyno-Mite—Millers Falls Co
 Dynos—Patterson Moos Div Univ Winding
 Dzus—Dzus Fastener Co Inc
- E**
- EAFF—Modern Adhesives & Electronics
 Eagalok—Eagle Electric Mfg
 Eagle—Fellers Co
 Eagle Brand—Fellers Co
 Eagle-Picher—Eagle-Picher Corp
 Earphone—Superex Electronics
 Ear-speakers—Linlar Inc
 Ear-speakers—Permoflux Prods
 East—Berkeley Div Beckman Int'l
- Eastern—Eastern Industries Inc
 Easy—Waldom Electronics
 Easy-Flow—Handy & Harman
 Easy Listener—Mitchell Industries
 Easy Products—Waldom Elec-tronics
 Easy-Vision—Hoffman Electronics
 Easycap—Emerson & Cuming
 East—Telex
 Ebonol—Enthone Inc
 Eby—Eby Sales Co
 EC—Electric Coil Co
 E-Case—Epoxy Products
 ECC—Electronic Comp Corp
 Ecoabond—Emerson & Cuming
 Ecoalloy—Emerson & Cuming
 Ecofoam—Emerson & Cuming
 Ecco Lunberg—Emerson & Cum-ing
 Ecomold—Emerson & Cuming
 Eco-reflector—Emerson & Cuming
 Eco-seal—Emerson & Cuming
 Eco-solvent—Emerson & Cuming
 ECI—Electrical Contractors
 EC Dual—Colonial Alloys
 Echo—Fort Wayne Metals
 Echo-Lite—Transistor Electronics
 Echo-Matic—Cousins Inc
 Echo-Vox—Kay Electric Co
 Echo-View—Eckstein Radio & TV
 Eckstein—Eckstein Radio & TV
 Econom—Simpson Mfg Co Mark
 Econofone—Simpson Mfg Co Mark
 Econom—Tru-Ohm Div
 Economy—E M Mfg Co
 Econo Slide—Grant Pulley & Economy—Switch—Centralab
 Econo-Walt—Redmond Co
 Edo—Electronics Design Co
 Eddystone—Marconi Instruments
 Eddy-Trol—Lyndon Aircraft
 Edgetron—Intercontinental Dynamics
 Edge Zip—Vector Electronic Co
 Edicam—Buss-Clement-Diughten
 Edin—Edin Co Inc
 Ediola—Sos Cinema Supply
 Edscorp—Edmund Scientific Corp
 Eeco—Electronic Eng'g Co of Calif
 EE—Radio Cores Inc
 EE—Electric Furnace Co
 Eform—Electronic Fabricators
 E-Form—Epoxy Products Inc
 Emen—British Radio Electronics
 EIC—Gary Wells Co
 Eico—Electronic Instrument
 EIC—Liberty Mirror Div
 EIDER—Eider-McCullough
 EIC—Electric Soldering Iron
 Eidotage—Webster Electric
 Eitacom—Fisher Berkeley Corp
 Ektar—Eastman Kodak Co
 EI—Electrons Inc
 EIC—Audio-graph Corp
 Elasticable—Sightmaster Corp
 ELDER—Electro Development Co
 Elecrom—Underwood Corp
 Elidor—Pacific Electrod
 Electenna—Electrod Prod
 Electraloy—Circon Component
 Electrone—Electron Prods
 Electrite—W Va Pulp & Paper
 Electrolite—Electro Products Labs
 Electro Acto Glass—Electro-Technical Prods
 Electro Bi-Glass—Electro-Techni-cal Prod Sun Chemical
 Electrocaps—Electro-Ceramics
 Electro-Cell—Amer Air Filter
 Electro-Contacts—Electro-Con-acts Inc
 Electrocraft—Richards Electro-craft
 Electracut—Black & Webster
 Electrodrizing—Colonial Alloys Co
 Electro Eltex—Electro-Technical Prods
 Electroflex—Aerovox Corp
 Electrofilm—Electrolum Inc
 Electro-Flex—Electro-Flex Heat Inc
 Electrofluor—Shannon Luminous Materials
 Electro-Graphic Recorders—Pre-rixe Measurement
 Electro-Glvs-Var—Electro-Technical Prods
 Electro-Glow—Industrial Devices
 Electro-Glow—Hays Mfg
 Electrojet—Sheffield Corp
 Electro-Klean—Amer Air Filter
 Electro—La-List Screen
 Electrolink—Leas Inc
 Electromagnet—Kenneth Rich-ardson Labs
 Electromanganese—Fote Mineral
 Electro-Matic—Amer Air Filter
 Electromax—Leeds & Northrup
 Electromaze—Air-Maze Corp
 Electro-mesurlo—Hays Mfg
 Electromet—Electro Metallurgical
- Electrometric—Whitewater Elec-tronics
 Electronite—Hays Mfg
 Electronic—Precision Apparatus
 Electronet—Rue Products
 Electronet—Kessel Eng'g
 Electronest—Nilsen Mfg Co
 Electronic Butler—Simpson Mfg Co Mark
 Electronic Indicator—Electro-Physics Co
 Electronic Longhand—TelAuto-graph Corp
 Electronic Messenger—Electronic Communications
 Electronic Servant—Wiegand Mfg Co
 Electronic Weatherstrip—Metal Textile Corp
 Electropad—Saine Engrs Lab
 Electropath—Century Equip
 Electropilot—Leas Inc
 Electro-pi—Amer Air Filter
 Electro-Plate—Pyramid Scheen Corp
 Electropoint—Century Engrs
 Electro-Posse—Maydon Co A W
 Electr-O-Probe—Instruments Inc
 Electropunch—Black & Webster
 Electroscope—Feller Eng'g Mfg
 Electro-Silver—Electro-Works
 Electroshield—Joseph Kinney Co
 Electro Sil-Thin-Glass—Electro-Technical Prods
 Electro-Slick-Glass—Electro-Technical Prods
 Electro-Silver—Electro-Technical Prods
 Electro-Son—Detroit Controls
 Electrostat—Black & Webster
 Electrotherm—Conn Organ Corp
 Electrovac Atlas—Atlas Elec Prods
 Electro-Vox—Fanon Electric Co
 Electro-Vox—Duotone Co
 Electro—Schauer Mfg
 Electromatic—Brooks Rotameter
 Electrone—Republic Steel
 Elephant—Seymour Mfg Co
 Elmag—Amer Time Prods
 Elm—Electronics Int'l Co
 Elm—Electric Indicator
 E-Lite—Eldem Corp
 Elis—El Products
 Elisco—Elis & Sons Geo D
 Elmer's—Bordens Co
 Elmet—North Amer Philips
 Elpho—Electro Physics Co
 EL-Rad—El-Rad Mfg Co
 Eltronics—El-Trons Inc
 Elvacet—DuPont de Nemours & Co
 Elvano—DuPont de Nemours & Co
 Embassy—All Channel Prods
 Em-Bed-It—Electronic Plastic
 EMC—Electronic Measurements
 EMC—Howard Industries Inc
 Emcor—Elgin Metallformers
 Emerson—Emerson Radio & Phono
 E M I—Ercora Corn
 Emico—Electro-Mechanical Inst
 EMP—Electronic Machine Parts
 Emul—Emerson-Van Winkle-Munning
 Empire—Tri-E Tower
 Empire Devices—Empire Prods Sales
 Ems Relays—Electro-Mechanical Specialties
 Enamel—Phelps Dodge Copper
 Enamel Co—General Cable
 Enamelite—Acme Wire
 Enbond—Enthone Inc
 Encoder—Adcon
 Enco—Pinaux Machine & Mfg
 Encore—Linlar Inc
 Encore—Permoflux Prods Co
 Encon—Pilot Radio Corp
 Enduro—Republic Steel
 Enselite—Century Lighting
 Enlon—Enlon Corp
 Engravograph—New Hermes Engraving
 Enns—Electronic Contractors
 Enns—Oregon Electronic Mfg
 Ensemble—Pilot Radio Corp
 Entice—Enthone Inc
 Enterte—General Cable
 Entho—Enthone Inc
 Entho—Enthone Inc
 Envoy—Anslv Mfg Arthur
 Envion—Furane Plastics Inc
 Ep—Electrical & Physical Instruments
 Epiron—Electron Prods
 Epulite—Amer Printed Circuits
 Epurbon—Furane Plastics Inc
 Epurax—Electron Prods
 Eclab—Eppley Lab Inc
 Epocap—Herdman Co Inc H V
 Eposat—Furane Plastics Inc
 Epoglas—New England Laminates
- Eponylite—LaMore CO
 Epoxal—Herdman Co H V
 Epoxweld—Duramic Prods Inc
 Epoxy—Shell Chemical Corp
 Esceal—Electro Eng'g Works
 Eput—Berkeley Div Beckman Instr
 Equaline—Entron Inc
 Equa-Therm—Temperature Eng'g Corp
 Equatrol—Entron Inc
 E—Electrical Refractories
 Erectohm—Workman TV Inc
 Erect Tower—Spaulding Prods
 Egyptian Tip—Mitchell Indus-tries Inc
 Ericofon—North Electric Co
 Erson—Multicore Sales
 Esco—Cosa Corp
 Esco—Electric Specialty
 ESCO—Electric Steel Foundry Co
 Esco—Electro-Switch Corp
 Escon—Electro-Switch & Controls
 Esico—Electric Soldering Co
 Escoluge—Electric Soldering
 Esipol—Electro Measurements Inc
 ESL—Electro-Sonic Labs
 Esses—Hanson-Von Winkle-Munning
 Estar—Sprague Electric
 ETC—Electric Terminals
 Etched—Quality Nameplate
 Etico—Electric Terminal Corp
 Eticolog—Welch Mfg Co
 Eureka—Bache & Co Semon
 Eureka—DuPont de Nemours & Co
 Eureka—Eureka X-Ray Tube
 Evabrite—Bache & Co Semon
 Evalast—Bache & Co Semon
 Evanchm—Driver Co Wilbur B
 Evap-Ion—Cons. Electrodynamics
 Evapograph—Baird-Atomic Inc
 Evercoat—Fibre-Glass-Evercoat
 Everlite—Curlis Dev & Mfg Co
 Ever-lok—Russell & Stoll
 Eveready—Nat'l Carbon Co
 Everlock—Thompson-Bremer & Co
 Ex—Exakta Camera Co
 Exact-Fax—General Photo Prods
 Exactohm—Workman TV Inc
 Exakta—Exakta Camera Co
 Exax—Central Scientific Co Canada
 Execulone—Execulone Inc
 Exco—Philco Corp
 Exide—Elec Storage Battery
 Exolor—Former—Geotronic Labs
 Eyemo—Bell & Howell Co
 E-Z Code—Westline Products
 E-Z Hook—E-Z Hook Test Prods
 E-Z Lifts—Crown Controls Co
 E-Z Stripper—Ideal Industries
 E-Z Talk—Simpson Mfg Co Mark
 E-Z Way—E-Z Way Towers
- F**
- Fabmica—Sprague Electric
 Fabriloid—DuPont de Nemours & Co
 Fabyalite—DuPont de Nemours & Co
 Fab-Seal—Pittsburgh Plate Glass
 Facsimile—Dinon Coil Co
 Fafnir—Fafnir Bearings Co
 Fairbanks—Morse—Fairbanks Morse & Co
 Fairprene—DuPont de Nemours & Co
 Fair-Rite—Fair-Rite Prod Corp
 Famco Fibers—Amer Air Filter
 Fanfare—Fanon Electric Co
 Fansteel—Fansteel Metallurgical
 Fantron—Luhrs & Co C H
 Fanc—Famewing Co
 Farlite—Farley & Loetscher
 Farnham—Farnham Mfg
 FASCO—Fasco Industries Inc
 Fastair—Wollensak Optical Co
 Fastotch—Centralab
 Fastex—Entron Inc
 Fastex—Wollensak Optical Co
 Fas-Tin-Flux—Hanson Van Winkle-Munning Co
 Fastop—Leas Inc
 Fault-Finder—Radar Engineers
 Faximile—Hogan Labs
 Faxite—Hogan Labs
 Faxpaper—Hogan Labs
 Faxwriter—Times Facsimile Corp
 F & B—Florman & Babb
 FB-14—Seco Mfg Co
 FC—General Rivets
 F-C-1—Film Capacitors Inc
 Featherweight—Barnett Instrument
 Featherweight Miniature—Chicago Ind Int'l
 Feduct—Columbia Metal Box Co
 Felco—The Forest Elec Co
 Felker Mfg Co—Felker Mfg Co
 Fel-Pro—Felt Mfg Co
 Fenswire—Saxon Prods
 Fen-Tone—Fen-Tone Corp
- Fennelco—Perfection Mica
 Ferrac—Airpax Products
 Ferramic—General Ceramics
 Ferramic—Nat'l Moldite
 Ferri-Chokes—superex Electronics
 Ferrico—Nat'l Moldite Co
 Ferristor—Berkeley Div Beckman Instrument
 Ferrites—Krystral Corp
 Ferro-Cell—Topatron Inc
 Ferro-Dynamic—Leas Inc
 Ferrograph—Ercora Corn
 Ferronol—Polymer Corp
 Ferronac—E-Vacuum Metal Corp
 Fibre-Glass—Webcor Inc
 Fibre-Glass—Fibre Glass-Evercoat Co
 Fibertuff Polystyrene—Koppers Co
 Fibretex—Stevens Paper Mills
 Fibroid—Johns-Manville
 Fidelipac—Sound Electronic Labs
 Fidelitone—Pyram Inc
 Fidelity—Electrod Products
 Fidelity Phase—Finney Co
 Fidelivox—Audiomation Labs
 Field-Fone—Industrial Radio
 Fil-Cap—Filtron Co
 Filmagnetic—Berndt-Bach Inc
 Filmister—Sprague Electric
 Filmitex—Sprague Electric
 Filmohm—Filmohm Corp
 Filmosound—Bell & Howell
 Film Pot—Fauchid Controls
 Film-X—Goodall Electric
 Filpex—Centralab Div
 Filplate—Centralab
 Fill-A-Cor—Aerostatic Core Corp
 Filterite—Deutschmann Corp
 Filterized—Deutschmann Corp
 Filterite—Deutschmann Corp
 Filterite—Deutschmann Corp
 Filter Point—Duotone Co
 Filter-Tenna—Dynamic Electronics
 Filtopack—Torocoll Co
 Filtron—Richardson Labs
 Finco—Finney Co
 Finco—Finney Co
 Finnflex—Finny & Co T R
 Finrod—Tubular Electric
 Finball—JFD Mfg Co
 Firefly—Channel Master Corp
 Firecord—Wallow Electric
 Firewall—Rockbestos Prous
 Fireye—Electronics Corp of Amer
 Firezone—Rockbestos Prods
 Firthalto—Firth Sterling
 Fischer—Firth Sterling
 Fischersone—Fischer & Co R A
 Fischertherm—Fischer & Co R A
 Fischer-Tone—Fischer & Co R A
 Fischerquartz—Fischer & Co R A
 Fiske—Advanced Instruments
 Five-Hand—Johnson Co E F
 Five-Star Tubes—General Elec Co
 S-Way—Superior Electric
 Fixtohm—Claroatrol Mfg Co
 Fixvac—United Electronics Co
 Flame Rock—Montaine Corp
 Flame Photometer—Advanced Instruments
 Flame Sling—Phelps Dodge Copper
 Flash-Flux—Ewald Instruments
 Flash Tube—Edgerton
 Germeshausen & Grier
 Flatohm—Centralab
 Flat-Stat—Control Products
 Flawmaster—Biggs Co Carl H
 Flexicom—Communications Co
 Flexwood—Gnraic Inc
 FlexALL—Rome Cable Corp
 Flexoquide—Airtron Inc
 Flexarm—Flexo Int'l Corp
 Flexator—Hunter Spring Co
 Flexaust—Flexvac Co
 Flexible Scribe—Johnson Co E F
 Flexform—Dukane Corp
 Flex-Liner—Vanton Pump & Equip
 Flexilog—Frankel Connector Co
 Flex-Mica—Scrump Pine Mica Co
 Flexite—Markel & Sons L
 Flexlab—Standard Electric Time
 Flexlead—Markel & Sons L Frank
 Flexlife—Columbia Wire & Supply
 Flexlock—Standard Pressed Steel
 Flexo—Art Specialty
 Flexo—Flexo Int'l Corp
 FlexoBench—Flexo Int'l Corp
 Flexoform—Columbia Wire & Supply Co
 Flexogram—Porter Co Inc H M
 Flexohm—Claroatrol Mfg Co
 Flexo Laps—Cros Tool & Die Works
 Flexo Mixture—Flexo Int'l Corp
 Flexon—Flexonics Corp
 Flexoprene—Standard Wire & Cable
 Flex-O-Tube—Flexonics Corp
 Flexowax C—Glyco Products

BRAND AND TRADE NAME INDEX

- Flex-Pak—Bogen Co David
 Flexprint—Sander's Assoc Inc
 Flexshield—Amer Elec Cable
 Flightcom—Communications Co
 Flightweight—Good-All Elec Co
 Flintflex—DuPont de Nemours & Co
 Flip—Benson-Lehner Corp
 Flip-Over—M F Electronics Inc
 Flipped Over Foil—Modern Adhesives & Electronics
 Flip-Seal—Roddale Mfg Co
 Flite Sound—Jack Scientific Inst
 Floatrol—Automatic Control Co
 FloGuard—Brooks Rotameter
 Flo-Iron—Vari-L Co
 Flolect—Anderson Inc W E
 Flow-Mixer—Brooks Rotameter
 Flo-Paque—Flocuit Prods
 Flowrator—Fischer & Porter
 Fluorator—Menlo Research Lab
 Fluorohim—Dilectrix Corp
 Fluoroflex—Resistaflex Corp
 Fluorohin—Joclin Mfg Co
 Fluorogly—Int'l Resistance
 Fluorotron—Beattie-Coleman Inc
 Fluro—Eastman Kodak Co
 Flush-Wall—Flush Wall Radio Co
 Fluxcoat—London Chemical Co
 Flux Gate—Eclipse-Pioneer
 Fluxvalve—Pickering & Co
 Flyer—Da-Lite Screen Co
 FM—General Ryzers
 FME—Federal Mfg & Eng'g
 FM Q—Apparatus Dev Co
 Foamflex—Phelps Dodge Copper
 Foamline—Plastoid Corp
 Foamplast—Topper Mfg Co
 Foamtube—Plastoid Corp
 Focality—Black Light Prods
 Focalyzer—Quam Photo Prods
 Focul—Miller Dial & Nameplate
 Folded Unipole—Andrew Calif Corp
 Fold Flop—Channel Master Corp
 Fones—Transelctric Mfg
 Fonofund—Ronette Acoustical Corp
 Fonograph—Webcor Inc
 Footrol—General Control Co
 Formaplast—Richardson Co
 Formasite—Reichold Chemicals
 Form-It—Form-It Prods Inc
 Formez—General Cable Corp
 Formbond—Acme Wire
 Formlon—General Cable
 Formula C-577—Atkinson Lab Inc
 Formvar—Acme Wire
 Formvar—Anaconda Wire & Cable
 Formvar—Phelps Dodge Copper
 Fortissimo—Linar Inc
 Fortissimo—Permyflux Prods Co
 F O S—Seamless Rubber Co
 Fostoria Infrared—Fostoria
 Prested Steel
 Fotolectric—Worner Electronic Devices
 Foto-FLD—Haloid Co
 Foto-foli—Miller Dial & Nameplate
 Fotolux—Amer Soodlight
 4-Bow Helix—FD Electronics
 400 Series—Du Pont Labs A B
 FP-1—Seco Mfg Co
 Frafonola—Guild Radio & TV Corp
 Frab—Biddle Co J G
 Frako—Gary Wells
 Frame-Loc—Vector Electronics
 Franklin—Bernard Franklin Co
 Freas—Precision Scientific
 Free-Vane—Bristol Co
 Freon—DuPont de Nemours & Co
 Freon-11 F 11—DuPont de Nemours & Co
 Freon 113—DuPont de Nemours & Co
 Fresnelite—Century Lighting
 Fresnels—Century Lighting
 Fretary—Fretco Inc
 Fretline—Fretco Inc
 Friden Tape Reader—Commercial Controls
 Friden Flexowriter—Commercial Controls
 Friden Controls
 Frinaccount—Link Aviation
 Froehler—Assoc Amer Trading Div
 Fullco—Commercial Filters Corp
 Full-View—Brooks Rotameter
 Function Programmer—Hubbard Scientific Labs
 Furzehill—Furzehill Labs Ltd
 Fusebar—Workman TV Inc
 Fused-Film—Inso Prods Ltd
 Fuse-Lite—Alden Products
 Fusetron—Bussmann Mfg Co
 Fusionweld—Avon Tube Div
 Fusistor—Bradford Components
 Fusite—Fusite Corp
 Fustat—Bussmann Mfg Co
 Fustron—Bussmann Mfg Co
 Futuramic—Cannell Master Corp
 Fuzor—Aetna Supply Inc
 Fuz-Lox—D & M Products
 Fuz-Lux—Fuz-Lux Mfg Co
 FXR—F R Machine Works
 Fyberoid—Wilmington Fibre Specialty
 Fyberglass—Eraser Co
 Fybr-Tech—Technical Ply-Woods Sales
 Frycall—Plectron Corp
 Frye-Freeze—Kiddle & Co Walter
- G**
- G-A—Grigsby-Allison Co
 G&F—Antara Chemicals
 Gageptron—Instruments Inc
 Gain Set—Kay Electric Co
 Gal-Phone—Gal-Tronics Corp
 Galv-O-Mast—Mech Steel Tubing
 Gammascan—Budd Co
 Gap R—Phibrick Researchers
 Garceau—Electro-Medical Lab
 Gardsmen—West Inst Corp
 Gardrol—Shand & Jurs Co
 Gas Farming—Gar Precision Parts
 Gask-O-Seal—Wolfe Co F C
 Garter—Carler Parts Co
 Gas-Master—Gow-Mac Instrument
 Gas-Pointer—Johnson-Williams Inc
 GB—Goldsmith Bros Co S&R
 GB Jet—Workman TV Inc
 G & B—Genier & Blumh Inc
 G-C—Gen Cement Mfg
 GCT-8—Seco Mfg Co
 Gearmotor—Foot Bros
 Geddata—Southwestern Industrial Electronics
 Gelson—Amer Gelson Electronics
 Gem—Gem Ear Phone Co
 Gem-Military & Co Inc P R
 Gemco—Great Eastern Mfg
 Genalex—General Electric Co Ltd
 England
 GenCalloy—A—General Cable
 Gencaisel—General Cable
 Gencaithene—General Cable
 Gencaith—General Cable
 Genco—Gen'l Photo Prods
 Gencon—General Cable
 Genotec—General Plastics Corp
 General—General Research & Supply
 General—Medal Mfg Co
 Generalize—Hanson-Van Winkle
 Munning Co
 Genie—Alliance Mfg Co
 Genisco—Genisco Inc
 Geodata—Southwestern Industrial Electronics
 Geofomers—Triad Transformer Corp
 Geometer—Geator Corp
 Geomatic—Finney Co
 Geom—Goodrich Chem Co B F
 Georeel—Georator Corp
 Geo-Swing-Ometer—Geophysical Services Div Johnson M J A E Co
 Geotech—Geotechnical Corp
 Geotrode—Georator Corp
 Geotron—Geotronics Labs
 Geomolmeter—Georator Corp
 Gertsch Box—Gertsch Prods Inc
 Gescor—General Crystal Co
 G-H—Giard-Hopkins
 Giant Meters—Fittmore-Friemuth
 Giant View—Melonk Steel Safe
 Gibbity—Gibson Electric Co
 Gibson Girl—Robins Industries
 Gilbarco—Gilbert & Barker Mfg Co
 Glas-Bond—Polymer Industries
 Glasohm—Claroast Mfg Co
 Glasomil—Honeycomb Co of Amer
 Glasscaps—Plastic Capacitors
 Glassal—Pyromat Elec Co
 Glass-Ross—Pittsburgh Plate Glass
 Glassera Chase Cole—Chase & Sons
 Glass Tubular—Plastic Capacitors
 Glastic—Glastic Corp
 Glastite—Warren Wire
 Glawitch—Revere Corp of Amer
 Glenmotor—Carler Motor Co
 Glennite—Gulton Mfg Corp
 Globar—Carborundum Co
 Globe—W R L Electronics
 Globe Champion—W R L Electronics
 Globe Chief—W R L Electronics
 Globe Inn—World Radio Labs
 Globe Scout—World Radio Labs
 Globe Spanner—W R L Electronics
 Glo-Drop—Workman TV Inc
 Glo-Melt—Wassco Electric Prods
 Glo-N-Glo—Can Radium & Uranium
 Glosseal—Pyramid Electric Co
 Glogag—Acheson Colloids
 Gnome—Carter Parts Co
 Gobo Projector—Century Lighting
 Goerler—Gary Wells Co
 Goetz—Johns-Manville
 Gold Crown—Pioneer Gen-E Motor
 Gold Cup—Carboneau Industries
 Golden Coax—General Electric
 Golden Treasure—General Electric
 Gold-Fi—Parker Metal Goods
 Gold Klad—St Elco Corp
 Gold Seal—Gorn Electric Co
 Golden Wand—Peerless Prods Ind
 Goniometer—Electro-Mec Lab
 Go-No-Go—Assoc Missile Prods
 Goodline—Wire Co of Amer
 Goddman's—Rockbar Corp
 Gordent—Gordon Enterprises
 Gornetrol—Gorn Electric Co
 Gotham—Grampian—Gotham Audio Div Corp
 Gotham Electric-Glassine—Hartford City Paper
 Gotham—Hartford City Paper
 Gotham—Electric Regulator Corp
 GP—Erie Resistor
 GPS—GPS Instrument Co
 Gradient-Microphone—Shure Bros Inc
 Graf—Grafo Colloids Corp
 Grafobulb—Grafo Colloids
 Grafolux—Grafo Colloids
 Gra-Lab—Dimco-Gray Co
 Gramer—Gramer-Halderson Transf
 Gramex—U & Graphite
 Grampan System—Gotham Audio
 Grampan Totham—Reeves Equip Corp
 Grantco—Grantco Prods Inc
 Grand—Hartley Products Co
 Grandinote—Amer Chemical Paint Co
 Graphallo—Graphite Metallizing
 Graph-A-Plan—Labelon Tape Co
 Graphite—Peltinos Inc Chas
 Graphitar—Graphite
 Gravalux—Hermes Plastics
 Grayflex—Hermes Plastics
 Grayhill—Grayhill Inc
 Gray-60—Gray Radio Co
 Great Western—Great Western Div Interlectric Corp
 Greenbill—Equip & Service Co
 Green Bullet—Shore Bros Inc
 Greenohm—Claroast Mfg
 Greibach—Gulton Industries
 Gridaloy—Driver Co Wilbur B
 Gridnic—Driver-Harris Co
 Grippo—Grip Nut Co
 Gripsite—Phelps Dodge Copper
 Grip-Lid-Tip—CBC Electronics Co
 Gripmaster—Size Control Co
 Gripnit—Tru-Lock Fasteners
 Grip-Spintite—Stevens Walden Inc
 Grizzly—Alux Aluminum & Chemical Sales
 Grommes Hi-Fi—Precision Electronics Inc
 Groop-Pin—Groop-Pin
 Groundmeter—Johnson Aircraft Eng'g Co M J
 Grover Lites—Natural Lighting Corp
 Growlers—Crown Industrial Prod Co
 Grundig-Majestic—Majestic Int'l Corp
 GS—Gen'l Scientific Equip
 "G-S" Series Relays—Netherington Inc
 GSI—Geartronics Corp
 GTC—Gal-Tronics Corp
 Guardian—Gen'l Cable
 Guardian MK I—G & M Equip
 Gude-Glass—Gudebrod Bros Silk Co
 Gudelace—Gudebrod Bros Silk Co
 Gudeman—Gudeman Co of Calif
 Gude-Nylace—Gudebrod Bros Silk Co
 Guideline—Airtrol Inc
 Guide-O-Matic—Barrett Electronics Corp
 Guidio—Audio Equip Co
 Guild—Guild Radio & TV Corp
 G-V—G-V Controls Inc
 Gyaline—Cascade Research
 Gyroflex—Eclipse-Pioneer Bendix
 Gyromatic—Reflecto Corp
 Gyromechanism—Norden-Ketay Corp
 Gyro—Sperry Gyroscope
 Gyrotrol—Sperry Gyroscope
- H**
- Habir—Phelps Dodge Copper
 Habirduct—Phelps Dodge Copper
 Habidure—Phelps Dodge Copper
 Habirite—Phelps Dodge Copper
 Habirlene—Phelps Dodge Copper
 Habirloy—Phelps Dodge Copper
 Habirprene—Phelps Dodge Copper
 Habirshaw—Phelps Dodge Copper
 Hackensack—Hackensack Cable
 Hadley Hand—Thomas Instrument
 Haier Jr—Audio Equip Co
 Halax—Halax Corp
 Haldidron—Gramer-Halderson Transf
 Hallowell—Standard Pressed Steel
 Haloid—Haloid Co
 Halolight—Sylvania Electric
 Hammel-Dahl—General Controls Co
 Hammer—Simpson Electric Co
 Hammer-Finish—Flamemaster Chemicals
 Ham-R-Press—Chase Mfg Co
 Ham-Tenna—Ilumitronic Co
 Handie-Micro-Talkie—Motorola
 Handie-Talkie—Motorola
 Hand-D-Presses—Hannin Co Div
 Parker-Hannin
 Handi-Scope—Simpson Electric Co
 Hand Meter—Simpson Electric Co
 Handy—Da-Lite Screen Co
 Handy Flux—Handy & Harman
 Handi-Hank—Superior Insulated Wire
 Harbot—Unimatic Corp
 Harmon—Goodrich Chemical Co B F
 Harp—Hartley Products Co
 Haxalin—DuPont de Nemours & Co
 Haysite—Hays Mfg Co
 Hazepage—Ess Instrument Co
 H-B—H-B Instrument Co
 H & D Pett-Stri—Radio Receptor Co
 H C R—Telegraph Const & Maint Co
 HCX—Sprague Electric
 HDCA—Servo Corp of America
 Headsets—Telex Inc
 Head-Rings—Micro Electronics
 Heater—Acme Wire
 Healthbits—Meath Co
 Heat-Timer—Standard Inst Corp
 Heatzone—Rockbestos Products
 Hedim—Gen'l Automatic Corp
 Heemo—Hill Electronic Eng'g
 Helico—Hoover Electric Co
 Helidor—Helidor Mfg Corp
 Helicon—U & Radium
 Heliaz—Linde Co
 Heliaz—Andrew Corp
 Helical—Foote Bros
 Heli-Coil—Heli-Coil Corp
 Heli-Coil—Premmco Inc
 Heli-Coil—Topp Industries
 Helicomp—Craig Systems
 Helicop Nut—Craig Systems
 Helicorder—Geotechnical Corp
 Helidel—Helipol Corp
 Helitrim—Helipol Corp
 Heli-Tube—Newman Co M M
 Helix—Biggs Co Inc Carl H
 Hendley Helipol—Handley Electronics
 HERCON—Hermetic Connector
 Hercules—Acromark Co
 Hercules—Bache & Co Semon
 Hercules—General Electric
 Hercules—Shure Bros
 Herman Nelson—Amer Air Filter
 Hermodin—Cambridge Filter
 Herms-Bright—SKF Industries
 Herton—Durez Plastics
 Hexacon—Hexacon Electric Co
 Hexclad—Hexacon Elec Co
 Hex Seal—Automatic & Precision
 Heyco—Heyman Mfg Co
 "Hi"—Melub Industries Inc
 Hiams—Stiller Corp
 Hi-Ball—Radiart Corp
 Hi-Banders—Chanel Master Corp
 Hi-Brite—Shannon Luminous Materials
 Hi-Cap—Bussmann Mfg Co
 Hi-Co-Lite—Nauman Instrument
 Hi-Cor—Alpha Metals
 Hi-D—Penberthy Instrument
 Hi-D—United Aircraft Prods
 Hide-A-Way—Peerless Prods Industries
 Hi-Ef—Kent Lighting Corp
 Hi-Farad—Aerovox Corp
 Hi-F—Cordover & Co Carl
 Hi-Hite—Lowell Mfg Co
 Hi-Flux—Amis Co R B
 Hi-Fonic—Alot-Fonic Music Systems
 Hi-g—General Controls Co
 Hi-Grade—Calcon Mfg Co
 Highland—Highland Eng'g Co
 High Speed—Edgerton
 Germeshausen & Grier
 High-Volt—Industrial Devices
 Hi-K—Resistor
 Hi-Kaps—Centralab Div
 Hi-Lab—Holt Instrument Labs
 Hilger—Jarrell-Ash
 HiLo—Da-Lite Screen
 Hi-Lob—Hi-Shear Rivet Tool Co
 Hi-Mag—Victoreen Instrument
 Hinge Lock—Simmons Fastener
 Minjon—Thomas & Betts Co
 Nipermalloy—United Transformer
 Nipgo—Mueller Electric Co
 Ni-Pressure—Brooks Rotameter
 Ni-Q—Aerovox Corp
 Ni-Q—Johnson Co E F
 Ni-Rel—Arel Electronics
 Ni-Shear—Hi-Shear Rivet Tool
 Ni-Slab—Erie Resistor Corp
 Ni-Styrolux—Westlake Prods
 Ni-Temp—Consolidated Wire & Assoc
 Ni-Ten—Armstrong Bros Tool
 Nitex—Stevens Paper Mills
 Ni-Tone—American Gelsco Electronics
 Ni-Torque—Hi-Shear Rivet Tool
 Ni-Trim—Aerovox Corp
 Nitronic—Bliss Electronic
 Ni-Vac—High Vacuum Equipment
 Ni-V-Kaps—Centralab Div
 Ni-Vo-Discs—Centralab
 Ni-Volt—Condenser Prods Div
 New Haven Clock & Watch
 Ni-L—Hanson-Van Winkle-Munning Co
 N-Lab—Narrison Labs
 No—Phelps Dodge Copper
 Hobbs—Gould Nat'l Batteries
 Mob Lok—Mobbs Mfg Co
 MoistPhone—Mine Safety Appliances
 Holiday—Webcor Inc
 Holtzer—Hartley Products
 Holtze—Continental Screw
 Holtzer-Cabot—National Presmatic
 Homelite—Homelite Div Textron
 Homo—Leeds & Northrup
 Homocarb—Leeds & Northrup
 Homest John—General Electric
 Honeycomb—Commercial Filters
 Honeycomb—Corona Switch Div
 Hookswitch—Corona Eng'g Service
 Hornet—New York Transformer
 Horse Head—New Jersey Zinc Co
 Horton—Becker Electronics
 Hotplast—Topper Mfg Co
 Hotpic—Contact Inc
 House of Abalon Prods—Abalon Precision Mfg
 House of Resistors—Claroast Mfg
 Hoyt Meters—Burton-Rogers
 HP—Aerovox Corp
 HRO-60—Nat'l Co
 H Series—United Transformer Corp
 H2O—Milton Roy Co
 Hucholtz—Huck Mfg Co
 Hudson—Oxford Electric Corp
 Hufco—Hufco Industries
 Hug-A-Plug—Page-Fogwell
 Humdinger—Claroast Mfg
 Humidigraph—Bristol Co
 Humidistat—Friez Instrument
 Humidolain—Star Porcelain
 Humistat—Amer Instrument
 Hurletron—Electric Eye Equip
 Hurricane Proof—E-Z Way Towers
 Hushed—Volkers & Schaffer
 Husite—Huse Liberty Mica
 Husky—Price Electric Corp
 HVC—United Transformer
 H&W—Hanson-Van Winkle-Munning Co
 Hyam—Lindberg Eng'g Co
 Hy-A-Sil—Miller Co Sanford
 Hycap—Illinois Condenser Co
 Hycar—Goodrich Chem Co B F
 Hycro—Lindberg Eng'g Co
 Hycrol—Lenz Elec Mfg
 Hydramotor—General Controls
 Hydrocide SX—Sonneborn Sons L
 Hydrograf—Grafo Colloids
 Hydrosec—Kaiser Aluminum & Chem Sales
 Hydrotrotter—Amer Instrument
 Hydros—Patterson Moot Div
 Unis Winding
 Hydrol—Cook Electric Co
 Hyen—Lindberg Eng'g Co
 Hyez—Lindberg Eng'g Co
 Hymematic—Burndy Corp-Omaton
 Hyfilm—Acme Wire
 Hyfilm—Indiana Steel Prods
 Hyflex—Lenz Elec Mfg
 Hy-G-300—Bendix Red Bank
 Hyge—Cons Electrodynamic
 Hygee—Lenz Elec Mfg
 Hyglas—Lenz Elec Mfg
 Hygrade—Foote Bros
 Hygrade—Merkel & Sons
 Hygro Dial—Friez Instrument
 Hypropak—Photo Crystals
 Hytervac—Central Scientific
 Hy Low—Stevens Products
 Hy-Met—Astron Corp
 Hypervac—Central Scientific
 Hyplex—Jensen Mfg Co
 Hypot—Associated Research
 Hyrez—Engis Equipment Co
 Hyrad—Sequoia Process Corp
 Hyraz—Lenz Elec Mfg
 Hyrel—Sprague Electric

BRAND and TRADE NAME INDEX

- Hysol**—Houghton Labs
Hyspar—Midland Paint & Varnish
Hytal—Magnuson Eng'g Inc
Hytahl—General Electric
Hytom—Lenz Elec Mfg
Hy-Temp—Andrew Calif Corp
Hy-Term—Hopkins Eng'g Co
Hy-Trol—DuPont de Nemours & Co
Hyac—Central Scientific Co
Hyoal—Aerovox Corp
HZPR—Hoffman Electronics
- Iatron**—Farnsworth Electronics
IBM—Int'l Business Machines
Ica—Electronics Div Van Norman Industries
ICA—Insuline Corp of America
IC Co—Industrial Control Co
ICI—Instrument Cases Inc
Icomerator—Du Mont Labs A B I
I D—Alcon Inc
Ideal—Melody Master Mfg
Idealarc—Lincoln Elec Co
Ideco—Dresser-Ideco Co
Identsleeve—General Plastics
Identichart—Royson Eng'g
Identix—Union Switch & Signal
Idesco—Identical Sign
IEC—International Equipment
IEERS—Int'l Electronic Res
IgnitionScope—Dumont Labs
IHC—Illinois Condenser Co
IHT—Illinois Condenser Co
II-TV—General Precision Labs
II-TV—Illinois Condenser Co
IMP—Insulation Mfg
Imcor—Insulation Mfgs
I M Gauge—Nuclear-Chicago Corp
Imhof—Gary Wells Co
Imp—Carier Paris Co
IMP—JFD Electronics Corp
Imp—Kear Eng'g Corp
IMP—Pyramid Electric Co
Impact-O-Graph—Impact-O-Graph Corp
Imperial—Jensen Mfg Co
Imperial—Rek-O-Kut Co
Imperial—Vokar Corp
Imperial—Webcor Inc
Imperial Stereo—Webcor Inc
Im-Plast—Richardson Co
Impulse Sequence—Bristol Co
IMR—Intelligent Mach Research
IMS—Injection Molders Supply
In-a-grip—Stevens Walden Inc
Inco—Phelps Dodge Copper
Incoloid—Amer Products Mfg Inc
Inco—Int'l Nickel Co
Inconel—Int'l Nickel Co
Incoro—Western Gold & Platinum
Increductor—CGS Labs Inc
Incusil—Western Gold & Platinum
Indalloy—Indium Corp of Amer
Indeco—Industrial Eng'g Equip
Indeli-Dent—Markwik Mfg Co
Indi-AC—Cleveland Instrument
Indicon—Nucor Research Inc
Indi-Ron—Cleveland Instrument
Indiscan-A—General Railway Signal
Inditron—Nat'l Union Elec
Indox—Indiana Steel Prods Co
Induct-O-Ring—Lindberg Eng'g Co
Inductosyn—Farrand Optical
Indulux—Irwin Labs
Industavor—Electronic Eng'g
Industro—Stale Labs
Industronic—Weston Instrument Div Daystrom
Infinite—Land-Air Inc
In-Line—JFD Mfg Co
Inmanco—Insulation Mfgs
Inner-Fin—Dunham-Bush Inc
Innel-X—Riverside Alloy Metal
InResCo—Instrument Resistors
Inso—Inso Co
Insect-lite—Hanovia Lamp Div/Englehard Industries
Inspectorge—Alcar Instruments
Inspector—Blek Light Prod
Instant-Form—TelAutograph Corp
Instantoid—Cole Radio Works
InstoChange—Bethlehem
Apparatus
Inst-O-Matic—Wiggins Oil Tool Co E B
Instruflex—Lenz Electric Mfg
Insulcon—Latrobe Plant Carborandum Co
Insulok—Johns-Manville
Insulink—Burndy Engineering
Insulate—Extruders Inc
Insulment—Perfection Mica Co
Insulup—Burndy Engineering
Insurok—Richardson Co
Interadicom—Stratford Corp
Intercentor—Winemore Co
Inter-Joint—Scientific Glass Apparatus
Interlock—Hubbell Inc Harvey
Intermatic—Int'l Register Co
Intertron—Automation Labs
International—Int'l Equip Co
International—Int'l Eng'g Inc
Invider—Ward Products
Invar—Telegraph Const & Maint Co
Invertron—Behlman Eng'g
Invincible—Hanson-Van Winkle-Munning Co
Invisicord—Maico Electronics
Ionotron—U S Radium
Ionovac—DuKane Corp
I O Eye—Basic Controls
I O Eye—I O Industries
IRID—Int'l Research & Devel
Iriditron—Budd Co
Irish—Oradio Industries
IRIS—Research Lab Aerona Mfg
Irma—Warner & Swasey Research Corp
IRM—Williams & Co C K
Ironing Brand—Minnesota Mining & Mfg
Isalite—Electric Auto-Life
Isanel—Phelos Dodge Copper
Isatron—Consolidated Electro-dynamics
Isa—Chatillon & Sons John
Isobond—S Radium Corp
Isobloom—Isocyanate Products
Isoglas—Nalvar Corp
Isos-Kaps—Centralab
Isolanite—Isolanite Mfg
Isolastane—Nalvar Corp
Isolite—Schenectady Varnish
Isolite—S Radium Corp
Isolite—Schenectady Varnish
Isomet—Schenectady Varnish
Isomet—Isomet Corp
Isomica—Mica Insulator
Isomica—Minnesota Mining & Mfg
Isomode R Pad—MB Mfg Co
Isomode R IMP—MB Mfg Co
Isone—Acme Wire
Isone—Schenectady Varnish
Isophase—Pickering & Co
Isosply—Elorc Inc
ITC—Technology Instrument
Isotran—Sorensen & Co Inc
Isotran—Sorensen & Co
ITV Zoomar—Zoomar Inc
- J**
Jackson—Vulcan Electric Co
Jaco—Jarrrell Ash
Jagabli—Biddle Co James G
Jaico—Jaidinger Mfg
Jaimeo—Jacobs Inst Co
Jaincomp—Jacobs Inst Co
Jaintac—Jacobs Inst Co
JaMac—J L Mac Products Co
Jan—Bell & Howell
Janitrol—Surface Combustion
Javes—Javex
Javes—LaMoree C D
JBL—Lansing Sound James B
J-E—Jacks-Evans Mfg
Jeco—Jarvis Electronics
Jeftron—Ace Electric Mfg Co
Jensen—Whitney Metal Tool
Jetral-B & H Instrument
JEPIC—Jefferson Electronic Prods
Jerrold—Jerrold Electronics
Jetenna—JFD Mfg Co
Jet Flux—All-State Welding Alloys
Jet Stream—Kino-Seeley Corp
JETomic—JFD Mfg Co
Jetite—Tuttle & Kift
Jevs—Land-Air Inc
Jiffy—Campro Prods
Jiffy—Kay-Townes Antenna
Jiffy—MacDonald & Co
JM—Illinois Condenser Co
J M—Johns-Manville
Job-Master—Cincinnati Time Recorder
Joelamp—Joelin Mfg Co
Johnson—Johnson Mfg Co
Jolla—Jan Hdw Mfg Co
Jomanco—Johns-Manville
Jov-Microdne—Jov Mfg Co
JSC—Jervis Specialty Co
JSP—Instruments Inc
Jung—Hacker & Co Wm J
Junior—Electrol-Da-Lite Screen
Junior-Helix—JFD Mfg Co
J-W—Johnson Williams
- K**
Kahle—Kahle Eng'g Co
Kahlico—Kahl Scientific Inst
Kahn—Kahn Research Labs
Kahn SSB—Kahn Research Labs
Kahn Kradle—Benchmark Mfg
Kaiser Wire—Kaiser Aluminum & Chem Sales
Kalret—Kalret Co Inc
Kalotron—Thermosen Inc
Kalwood—Keller Prods Inc
Kane Quality—Kane Mfg Corp
Kanigen—General Amer Trans-portion
Kantark—Trico Fuse Mfg
Kantha—Kantha Corp
Kantlink—Positive Lock Washer
Kappa—Wright & Sons Co Wm E
Karadio—Eckstein Radio TV
Karab—Olin Carbon Co
Karbomet—Driver-Harris Co
Karma—Driver-Harris Co
Karropack—Felt Prods Mfg
Kasil—Philadelphia Quartz
Kathabar—Surface Combustion
Kato—Kato Eng'g Co
Kaylock—Kaynor Co
Keithly—Keithly Instruments Inc
Keleket—Tracerlab Inc
Kel-F—Kellogg Co M W
Kel-F—Minnesota Mining & Mfg
Keller—Gardner-Denver Co
Kelco—Shamban & Co W S
Kemet—Kemet Co
Kemetal—Radio Industries Inc
Kenco—Kenwood Eng'g Co
Kennett—Nat'l Vulcanized Fibre
Kent Custom Kraft—Kent Tele- vision
Kentlink—Kent Lighting Co
Kentron—Kemtron Electron Prods
Kepron—Keil Eng'g Prod Co
Keops—Shakeproof Co
Kesso—Kessler Chemical
Kesscoflex—Kessler Chemical
Key-Con—American Lava Corp
Key-D—Digitronics Corp
Keytron—Gara Mfg Co
Keytag—Benson-Lehner
Keynoter—Gray Mfg Co
K & H—Krueger & Hudepohl
Kic—Kemet Co
Kidde-Atmo—Kidde & Co Walter
Kilo-Q—Kay Electric Co
Kilo-Sweet—Kay Electric Co
Kilotrol—Cook Electric Co
Kilowatt—Johnson Co E F
Kine-Lab—Kine-Lab
Kinplex—Collins Radio
Kinney—New York Air Brake
Kintel—Kay Lab
Kip—Kip Electronics
KL—Kenite Labs Inc
Klad—SI. Eloi Corp
Kleanrol—DuPont de Nemours & Co
KleeNeedle—Robins Industries
Kleer Kote—Crom Industrial Prods
Klein—Mathias Klein & Sons
Kleightlights—Kiegl Bros
Klikit—Rau Fastner Co
Klimax—Central Scientific Co of Canada
Klinch—Hanson-Van Winkle-Munning Co
Klincher—Locknuts—Klincher Locknut
Kliplok—Trico Fuse Mfg
Klipschor—Klipsch & Assoc
Klixen—Metals & Controls Corp
K Lok—Erie Resistor
Klozur—Garlock Packing M & C
Knigh—Allied Radio Corp
Knog—Knog Inc
Knurl-Til—Chase Mfg Co
Korour—Kocour Co
Kodachrome—Eastman Kodak Co
Kodak Contour—Optical Gaging Products
Kodak—Eastman Kodak Co
Kodet—Finstman Kodak Co
Korda—Chicago Gasket
Korda-Flex—Chicago Gasket
Kostreel—Kost Prods
K O-Hm—Non-Linear Systems
Koiled Kords—Koiled Kords
Kold-Phil—Phillips Mfg Co
Kolfield—Utica Drop Forge & Tool
Kool Klamps—Birtcher Corp
Kool Set—Pyramid Elec
Koosle—Pyramid Elec Co
Knolltron—Knolltron Fax Co
K Silicate—Kiltronics Div Union Carbide
Korsopal—Goodrich B F
K D Series—Channel Master Corp
Kote-Maso—Hanson-Van Winkle-Munning Co
Kote-Rax—Hanson-Van Winkle-Munning Co
Kovar—Latrobe Plant Carborandum Co
Krispic—Lektro Labs
Kristel—Krisss Electronics
Kromover—All-State Welding Alloys
Krinn—Krinn Inc
K S Series—Kay-Townes Antenna
Ksevis—Polytronics
- L**
Lab Aids—Authorized Mfgs Service
Labcase—Berkshire Labs
Labelon—Labelon Tape Co
Labitron—Nuclear-Chicago Corp
Labmarker—Berkshire Labs
Labmaster—Gen'l Nuclear Corp
Labnote—Prece Labs
Labret—Berkshire Labs
Labstroke—Berkshire Labs
Lab-line—Dunlap Electronics
Labtrans—Berkshire Labs
Lab-Volt—Buck Eng'g Co
Lacdon—Sun Dial
Ladex—Linn Humitronic Eng'g
Lamator—Lamaco Inc
Lamco—Laminations Co
Lamicaid—Mica Insulator
Lamicaid—Minnesota Mining & Mfg
Lamitex—Franklin Fibre
Lancer—Peca & Wasey Sales
Lansing—Altec Lansing
Lap Seal—Mannfin Co Div Parker-Mannfin
Laqua—Fidelity Chemical
Largo—Linar Inc
Largo—Permoflux Prods Co
Las Galos—Cascade Research Div
Las Monogram—Prece Labs
Laub—Industrial Devel Labs
Lavite—Steward D M Mfg
Lavolan—Star Porcelain Co
Laytex—Kaiser Aluminum & Chem Sales
Lazy-X—Radiat Corp
L-C—Chem-Luminescent Corp
LC Compass—Leair Inc
Lead-Former—Design Tool
Leaquer—Antenna Specialists
Learmatic—Leair Inc
Leary—Leair Inc
Leathard—Nat'l Vulcanized Fibre
Leartran—Leair Inc
Lecite—Elect-Chemical Eng'g
Lectalite—Electric Auto-Life
Lectron—Du Pont de Nemours & Co
Lectionscope—Hamlin Inc
Lectrodryer—Pittsburgh Electro-dryer
Lectionscope—Ronar Inc
Ledex—Leland Inc G H L E E-L E E
LeeFluor—Lee Chem Corn Waller
Leeson—Universal Windm Co
Lectlicite—Century Lightmng
Leko's—Century Lightmng
Lektro—Electronic Rectifiers
Lektrotuner—Conn Hard Rubber
Lektrotuner—Conn Ltd C G
Lektro-Tuner—Conn Organ Corp
Leonite—Lab-Tronics Inc
Lercop—Lercop Electronics
Level Master—Jo-Bell Prods
Levelume—Hanson-Van Winkle-Munning Co
Leveltronic—Instruments Inc
Levin—Levin & Son Louis
Levolier—McGill Mfg Co
Levolor—Lorenzen H W Inc
Lex—Vertical—Switchcraft Inc
Lewis—Western Coil & Electrical
Lewis Vertical—Universal Prods
L F—Switchcraft Inc
L-S—Autopilot—Leair Inc
L-45—Silicones Div Union Carbide
LGP-30—Libraco Inc
LGP-30—Royal Precision Corp
Liad—Assembly Products
Liberty—Amer Communication
Lico—Life Instrument
Liron—Illinois Tool
Life—Life Instrument
LifeLong—Dupont Co
Light Warden—Electric Cord
Ligna-Sweep—Kay Electric Co
Lignophol—Sonneborn Sons L
- Liquamotte**—Shellabrator Corp
Limberlock—Joy Mfg Co
Limberone—Joy Mfg Co
Limtron—Busman Mfg Co
Limpander—Electric Systems Eng'g
Linde—Linde Co
Linde Saphire—Linde Air Prods
Line-A-Gear—Allis Co Louis
Line-A-Spede—Allis Co Louis
Linear Standard—United Trans-former
Line-Lok—Channel Master Corp
Line-Lok—I E Mfg Co
Linemaster—Linemaster Switch
Line-O-Life—Carter Motor Co
Line-O-Power—Foote Bros
Lineview—Lincoln Elec Co
Ling—Ling Electronics Inc
Liniometer—Bourns Labs
Limpot—Bourns Labs
Link Lock—Simmons Fastener Corp
Linar—Linar Inc
Linar—Permoflux Prods Co
Linar—Muirhead & Co
Lion—Southco South Chester
Lip-Loc—Vector Electronic Co
Lipstrik—Altec Lansing
Liquid Level Controller—Jo-Bell Prods
Liquidometer—Liquidimeter Corp
Liquidmatic—Hanson-Van Winkle-Munning Co
Lira—Mine Safety Appliance
Lite-Gage—Photicon Research Prods
Litemaster—Art Specialty
Litemaster—Flexo Int'l Corp
Lite-Rite—Anderson Inc W E
Lifestrip—Circon Component Corp
Lithaloid—Haloid Corp
Lithoform—Amer Chem Paint Co
Little—Switchcraft Inc
Little Jewel—Switchcraft Inc
Little Plug—Switchcraft Inc
Little Switch—Switchcraft Inc
Little Devil—Ohmite Mfg Co
Little Gem—Eupatco
Little Gem—Great Eastern Mfg
Little Giant—JFD Mfg Co
Little Jewel—Algonne Electronics
Little Joe—MacDonald & Co
Little John—General Electric
Missile & Ord
Little Wonder—Trans Lux Corp
Littil-Lytic—Sprague Electric
Livington—Richmont Inc
Living Presence—Melody Master
Lloyd—Lloyd
Loadtron—Jordan Co Inc
Lo-Boy—JFD Electronics
Localities—Fostoria Pressed Steel
Locar—Simmons Accessories
Locke—General Electric
Lock-O-Seal—Wolfe Co F C
Lock-Tite—Thomas & Betts Co
Loctite—Amer Sealants
Lodge Porta-Kalk—Loqe J M Sound Engrs
Loqe Lectern—Loqe J M Sound Engrs
Logeman Model L—Logeman Co C W
Logger—Audio Int'l
Loguquant—Lono Inc
Lo-Grand—Hartley Prods Co
Lohm—Driver-Harris Co
Lok-On—I E Mfg Co
Lok-Thred—Nat'l Screw & Mfg
Lobus—Shakeproof Corp
Lo Mount—Barry Controls Inc
Lo-Ohm—Bradford Components
Lo-Ohm—Workman TV Inc
Loostick—Superlex Electronics
Lorac—Seismograph Service Corp
Lorain—Lorain County Radio
Lost Wax—Werezast Mfn
Lotus—Asso: Amer Trading Div
Lotemp—Micro Instrument
Lo-Tork—Waters Mfg
Lo-Volt—Industrial Devices
Lorix—Hobbs Mfg Co
L-T—Lab-Tronics Inc
L-2—Autopilot—Leair Inc
Lube-Lok—Electricum Inc
Lubr-Loc—Permo Inc
Lucero—Driver-Harris Co
Lucite—Du Pont de Nemours
Lumalut—Micro Balancing
Lumenized—Eastman Kodak Co
Lumelron—Photolowt Corp
Luna-Lite—Lawter Chemicals
Lusterizer—Amer Elec Cable
Lusterizer—Amer Elec Cable
Lust-radhone—Fen Tone Corp
Luxchrome—Stewart-Trans-Lux
Luxo—Luxo Lamp Corp
Luxultra—Stewart-Trans-Lux Corp
Luxuria—Stewart-Trans-Lux Corp
Lyn-A-Swim—Minatron Corp
Lyon's Chronometric—Bojlin Inst
Lytalstone—Farewell Co
Lyticap—Planet Mfg

BRAND and TRADE NAME INDEX

Musical Master—Greene Co L
 Charlton
 Music Master—Sonic Industries
 Inc
 Music Minder—CBC Electronics
 Co Inc
 Muscola—Linlar Inc
 Muscola—Permotex Prods Co
 Musi-Talk—Fanon Electric Co
 Muted Stylus—Shure Bros
 Muter—Muter Co
 Mykroy—Electronics Mechanics
 MVR—Soerensen & Co Inc
 Mycotel—Mycotel Corp of
 America
 Mycon—Southern Electronics Corp
 Myhm—Acme Wire Co
 Myke-A-Trol—Industrial Elec-
 tronics Inc
 Mykroy—Mica Fabrication Co
 Mylar—Du Pont de Nemours
 Mylined—Thomson Industries
 Mylor Film—Lamoree C D
 My-T-Midget—American Rectifier
 Corp

N

N A—Magnarox Co
 N A—National Scientific Labs
 Na-Aid—Alden Products
 Nadar—Autometics Div N Amer-
 ican Aviation
 Natl—Lear Inc
 Nagapak—Nagoo Assoc
 Nagoprotol—Nagoo Assoc
 Na & K—Advanced Instruments
 Natco—N American Elec Lamp
 Namettes—Swenson Co V H
 Narco—National Aeronautical
 Narcol—NRC Equipment
 Narcus Process—Printed Elec-
 tronics
 Narmcloth—Narmco Resins &
 Coatings
 Narmtape—Narmco Resins &
 Coatings
 National—National Carbon Co
 National—Gould-Natl Batteries
 National—National Vulcanized
 Fibre
 National—Valco Mfg Co
 National Fibre—Lestershire Spool
 Div National Vulcanized Fibre
 National Kantling—Natl Lock
 Washer
 National Nylon—National Vulca-
 nized Fibre
 Nautilus—Hudson Amer Div
 Navigator—Johnson Co E F
 Naz-Dar—Naz-Dar Co
 Nebroc TF—Hi-Temp Wires
 N-Cap—Eastern Precision
 Resistor
 Nebroc—Hi-Temp Wires
 Negator—Hunter Spring Co
 Nelco—New England Laminates
 Nemco—Electronics Div Van
 Norman Industries
 Nemco—New England Mica
 Nemco—Nuclear-Chicago Corp
 Neo Flow—Peerless Photo
 Neolite—General Cement Mfg
 Neolube—Nylon Industries
 Neoprene—Standard Wire &
 Cable
 Neolite—General Cable
 Neopco—National Electric Prods
 Nelco—New England Transformer Co
 Netco—New England Tape
 Netcosol—New England Tape
 Nelic—Perfection Mica
 Nelic Alloy—Magnetic Shield
 Div Perfection Mica
 Netran—New England Transformer
 Ne-2—Harristahl Labs
 Neucork—Auburn Mfg
 Neumade—Neumade Prods Corp
 Neuron—Autron Eng
 Neuro-Tron—Wappler Inc
 Neutro—Duntion Co M W
 Never-Slain—Nichols Wire
 Newcomb—Newcomb Audio Prods
 Co
 New England—Hanson-Van Winkle-
 Munning Co
 New World—Deagan Inc J C
 New Dro—The Ney Co
 Nigrille—Johns-Manville
 Niak—Hooker Electrochemical
 Nicad—Nicad Div Gould-National
 Batteries
 Nicad—Nickel Cadmium Battery
 Niceloid Process—Bigelow Metal-
 lizing Chem
 Nicheem—Driver-Harris Co
 Nicobond—St Elroi Corp
 Nickel-Lume—Hanson-Van Winkle-
 Munning Co
 Nickelonyl—St Elroi Corp
 Nickelply—National Standard Co
 Nicloy—Babcock & Wilcox Co
 Nicoy—Western Gold & Platinum
 Nicote—Frenchtown Potcelain
 Nicuzzi—Western Gold & Platinum

Nielsen Electronics—Edeem Eng
 Devel
 Nigrille—Johns-Manville
 Nile—General Electric-Missile &
 Ordnance Systems
 Nirothal—Kanthal Corp
 Nillex—Driver-Harris Co
 Nilstain—Driver Co Wilbur B
 9-H—Hanson-Van Winkle-
 Munning Co
 Niore—Western Gold & Platinum
 Nitelighter—Fisher-Pierce Co
 Nitrelman—Footo Mineral
 Nitro-Dur—Elect-Chemical Eng
 Niucac—Vacuum Metal Corp
 Div Crucible Steel of Amer
 Nix—Burroughs Corp
 Nil—Natl Electronics
 Nobatron—Sorensen & Co
 NO-Batt—Bristol Co
 Nobely—Continental Carbon
 Nobette—Continental Carbon
 Nobl-Ohm—Fairchild Controls
 Nobrush—Georator Corp
 No Cast—Hanson-Van Winkle-
 Munning Co
 Nodseal—Johns-Manville
 Noseraser—Librascope Inc
 Noboro—Duntion Co M W
 Non-Link Positive—Positive Lock
 Washer
 Nooyal—Kaiser Aluminum & Chem
 Sales
 Nopco Lockfoams—Nopco Chemi-
 cal Co
 Norbide—Norton Co
 Norco—Noro Prods Mfg
 Norcol—Phillips Electronics
 Norma—United Audio Prods
 Norrich—Northern Plastics
 Norrich—Norrich Plastics Corp
 Norseman—Erikson Specialized
 Tool
 Northam—N American Instrument
 Northam—Northam Electronics
 Novabestos—Raybestos-Manhattan
 Nox-Tarnish—Dauherl Chemical
 NPC—Nucleonic Prod Co
 NP-GO—Ohio Seamless Tube Div
 NRC—NRC Equipment Corp
 NRD—Isotopes Specialties Co
 Nyl—Nuclear Corp of Amer
 NTT—Natl Tel-Tronics Corp
 NRK—NRK Mfg & Eng Co
 N Silicate—Phila Quartz Co
 Nublac—Star Porcelain Co
 Nu-Chromsol—Pittsburgh Plate
 Glass
 Nucleauris—Nuclear-Chicago Corp
 Nucleibade—Nuclear-Chicago Corp
 Nucor—Central Electric Mfrs
 Nucor—Nuclear Corp of Amer
 Numar—Perkin-Elmer Corp
 Numechron—Pennwood Numechron
 Nu-Tronic—Nuclear Electronics
 Nu-Way—Marshall Assoc John
 NWL—Nathelr Winding Labs
 NX-A—General Railway Signal
 Co
 NYalite—Electric Auto-Lite Wire &
 Cable
 NYVCO—New York Coil Co
 Nyform—Phelps Dodge Copper
 NYGrip—Weckesser Co
 Nylaflow—Polymer Corp
 Nylonon—Polymer Corp
 Nylasint—Polymer Corp
 Nylonon "GS"—Polymer Corp
 Nylazoid—Polymer Corp
 Nylze—Phelps Dodge Copper
 Nylotig—Burdette Corp Omaton
 Nyl-Fast—Anti-Corrosive Metal
 Prod
 Nylvol—Nylvol Corp
 Nylvol—Townsend Co
 Nvol—Nve Inc Wm F
 Nytran—New York Transformer
 Nytran—Acme Wire

Ommeter—Lear Inc
 Onite—Tennalab
 Onan—Onan & Sons Inc D W
 150 Series—Sanborn Co
 194—Pickering & Co Inc
 O-Pac—Opad Electric Co
 OPCO—Opogad Pottery
 Optical—Optron Corp
 Optimus—Hanson-Van Winkle-
 Munning Co
 Opatron—OMCO
 Orienter—Lear Inc
 Orlon—Du Pont
 Ortholon—Magnetics Inc
 Orthonol—Thomps & Skinner Inc
 Oscar—Benson-Lehner Corp
 Oscaltel—Benson-Lehner Corp
 Oscillator—Saine Equip Lab
 Oscillocast—Saine Equip Lab
 Oscillo-Record—Fairchild Camera
 & Inst Corp
 O Silicate—Philadelphia Quartz
 Oscilloscope—Edgerton Gerns-
 hausen & Grei
 Oscillator—Beattie-Coleman
 OS-45—Monsanto Chemical
 Oster—Oster Mfg Co John
 Ostuco—Ohio Seamless Tube Div
 Otrac—Nor-Linear Systems
 Otun—United Transformer
 Ovaltube—Plastidur Corp
 Overture—Webcor Inc
 Oxford—Oxford Electric Corp
 Oxley—BR Radio Electronics
 O-Z—Zernichow Co O

P

PA—Aerovox Corp
 Pac—Erie Resistor
 Pace—Electric Assoc
 Pace—Pace Electrical Instruments
 Co
 Pace—Precision Apparatus
 Pacemaker—Johnson Co E F
 Pacer—Da-Lite Screen Co Inc
 Pace-Setter—JFD Mfg Co
 Pack—Simmonds Aerocessories
 Inc
 Packtron—Simmonds Aerocessories
 Inc
 Packard—Packard Instrument Co
 Pack-A-Shaft—Claroat Mfg Co
 Packmaster—Radio Specialty
 Paco—Paco Electronics Co Inc
 Pad-Kaging—St Dalton Co
 Padhom—Claroat Mfg Co Inc
 Paifron—Simmonds Aerocessories
 Inc
 Pagephones—Femco Inc
 Paintgrid—Armco Steel
 Paisley—Morningside Paisley Inc
 Pak-Fone—Industrial Radio Corp
 Pak-JFD Mfg Co
 Palco—Western Gold & Platinum
 Co
 Paliney—Ney Co
 Paloro—Western Gold & Platinum
 Co
 Pameco—Pameco Div
 Panacoustic—U S Recording
 Panalam—Panellit Inc
 Panalog—Panellit Inc
 Panalov—Panellit Inc
 Panascan—Panellit Inc
 Panatron—Panatron Developments
 Panamatic—Welsyn Int'l Inc
 Panduro—Pacific Transducer Co
 Panel-Chanel—Stahlin Bros Inc
 Paneloc—Scovill Mfg
 Panelsrops—Waterman Prods
 Panelvst—SI Regis Paper Co
 Pan-i-Lite—Alden Products
 Panoramir—Panoramir Radio
 Prods Inc
 Panto—Preis Engraving H P
 Panto Drill—DuMont Prods
 Paner Covered—Phelps Dodge
 Copper
 Paperite—Acme Wire
 Par-AC—Cleveland Instrument Co
 Paracostal—Kaiser Aluminum &
 Chemical Sls
 Paraflector—Scala Radio Co
 Paraflex—Radio Music Corp
 Parafombed—Paramount Paper
 Tube Corp
 Paragon—Paragon Electric Co
 Paraliner—Paraliner Co M
 Parlek—Magnaflex Corp
 Parker-Metals—Parker Electronics
 Par-Metal—Par Metal Prods
 Parset—Parson Co R M
 Partridge—Partridge Transformer
 Pathfinder—Cannon Electric Co
 Pathfinder—Newcomb Audio Prods
 Paulite—Luminous Resins
 Paxar—Pacific Optical
 Paxon—Pacific Optical
 Pavmaster—Cincinnati Time
 Recorder
 P & B—American Machinery &
 Foundry Co
 P B—Potter & Brinfield
 PCN—Seymour Mfg Co

PDC—Precise Development Corp
 PD-Z—Phelips Dodge Copper
 PEC—Centralab
 Peco—Pacific Electrorod
 Peco—Pomona Electronics
 Pedasine—Fischer & Co R A
 Pedegree—George Co P
 Pee-Cee—Printed Cellophane Tape
 Peerless—Altec Lansing Corp
 Peerless—General Cable
 Peerless—Natl Vulcanized Fibre
 Co
 Peerless Clamps—Peerless Elec-
 tronics Inc
 Peerless Rib—Peerless Film
 Processing
 Peerless Treatment—Peerless Film
 Processing
 Peer-Renu—Peerless Film
 Processing
 Pee-Wee—Mueller Electric Co
 Peirce—Erie Dictation Systems
 PEM—Penn Eng'g & Mfg Co
 P E Majestic—Majestic Int'l Sis
 Corp
 Perarc—Pembrex Theatre Supply
 Corp
 Pemco—Practical Electronics
 Peminc—Pembrex Theatre Supply
 Corp
 Penacelite—Koppers Co
 Penet—Centralab
 Penelgraph—Panellit Inc
 Penelite—SI Regis Paper
 Pengraf—Grafo Colloids
 Pennington—Penn Precision Prod
 Penn-Trans—Penn Transformer
 Pen Ray—Ultra-Violet Prods Inc
 Penta—Penta Labs Inc
 Pentacon—Ekakta Camera Co
 Pentapes—Pentron Corp
 Pentron—Pentron Corp
 Percler—DuPont de Nemours
 Perco—Linnell Eng'g Corp C S
 Perco—Pereny Equip
 Perfecto-Cut—Tablet & Ticket Co
 Perfectione—Audiomation Labs
 Perforated Myarl—Polykon Sis
 Div Kendall Co
 PerFlex—General Controls Co
 "Performance Guaranteed"—
 Magnetics Inc
 Periscope—JFD Mfg Co
 Perm-A-Caps—Chicago Condenser
 Permacel—Permacel-LaPages Inc
 Permacel Tape—LaMoree C D
 Perma-Code—Brady Co W H
 Permacod—Revere Corp of
 America
 Perma-Dry—Phelps Dodge Copper
 Perma-Dure—Phelps Dodge
 Copper
 Permafano—Columbia Wire &
 Supply Co
 Permagrid—Driver Co Wilbur B
 Perma-Grip—Avery Adhesive
 Label
 Permaline—Columbia Wire &
 Supply Co
 Permannickel—Int'l Nickel Co
 Permantite—Footo Mineral
 Permapaper—Sandborn Co
 Permaplast—Richardson Co
 Perma-Power—Perma-Power Co
 Perma-Resin—Photo Chemical
 Prods Co of Calif
 Permatag—Action Craft Products
 Permo—Hardman Co Inc H W
 PermoFlex—Linlar Inc
 PermoFlex—PermoFlex Prods Co
 Permo Point—Permo Inc
 Personalphone—Radio Corp of
 America
 PE Sound—Precision Electronics
 Inc
 Peter Pan—Electronic Creations
 Peter Pan—Telephone Co of
 America
 Pet—Portable Electric Tools Inc
 Petro-Dure—Phelps Dodge Copper
 Pexto—Peck Slow & Wilcox
 P H N—Peck & Harvey
 Phalene—Phalo Plastics Co
 PhaloCom—Phalo Plastics
 PhaloCor—Phalo Plastics
 Phalton—Phalo Plastics
 Phalo Tel—Phalo Plastics
 Phalo Tran—Phalo Plastics
 Phalox—Phalo Plastics
 Phazor—Industrial Test Equip
 Phenoline—Carbolite Co
 Phenoltrac—Natl Vulcanized
 Fibre Co
 Phenoweld—Hardman Co H V
 Phillis—Phillips Mfg Co
 Phillips—Harner Co H M
 Phillips—Phillips Mfg Co
 Phil-Trol—Phillips Control
 Phonadourash—Gray Mfg Co
 Phon-Cushion—Robins Industries
 Phonostrob—Berkshire Labs
 Phoson—United Wire & Supply
 Phostube—All Star Alloys Co
 Photobroge—Electro Physics

Photoelectric—Phoenix Precision
 Inst
 Photofacts—Sams Howard &
 Co W
 Photolinish—Photoacircuits
 Co
 Photogard—Industrial Dev L S
 Inc
 Photon-X—Balfour Elec Corp
 Photoprobe—Electro-Physics Co
 Photo-Sonics—Producers Sales
 Corp
 Photo-Sphere—Basic Controls
 Photo-Sphere—J Q Industries
 Photoswitch—Electronics Corp of
 America
 Photovox—FenTone Corp
 Photronic—Weston Inst Div
 Daystrom Inc
 Photosync—Automation Inc
 Pi-Caps—Chicago Condenser
 Pic-Boost—C B C Electronics
 Pick-A-Shaft—Claroat Mfg Co
 PicSyn—Fairchild Recording
 Equip
 Picture King—Da-Lite Screen
 Picturephone—McClure Talking
 Pictures O J
 Pic-Maker—Minister Machine
 Co
 Pig-Tailor—Bruno-NY Industries
 Pilotone—Pilot Radio Corp
 Pioneer—Pioneer Patents &
 Prods Co
 Pip—Aviation Dev Inc
 Pip-Jet—JFD Mfg Co
 Pioriente—Presto Recording
 Pisto-Grip—Wall Mfg Co P
 Pitching—Roller Bearing Co
 Pitomatic—Roman Bearing Co
 Pitomatic—Roman & Kunzi
 Pico—Pittsburgh Coil
 PIV—Link-Belt Co
 Pixie—Burroughs Corp
 Pixie—Cook Electric
 Pixie—Winegard Co
 P-K—Parker-Kalon
 Placco—Borden Chemical Div
 Placel—Int'l Screw & Mfg Co
 Placel—Lenz Elec Mfg
 Planetaire—Planet Service Corp
 Planeton—Havco Industries Inc
 Planned Products—Designers for
 Industry Inc
 Plant-Steel—Natl U S Radiator
 Corp
 Plascel—Lenz Elec Mfg
 Plasglas—Lenz Elec Mfg
 Plasleas—Ram Chemicals Inc
 Plaste—Lenz Elec Mfg
 Copper
 Plaste—Barrett Div
 Plaste—Du Pont de Nemours
 Plaste—Natl Eng'g Prod Inc
 Plaste—Condenser Products
 Plaste—Chester Cable Corp
 Plaste—Chester Cable Corp
 Plaste—Auburn Mfg Co
 Plaste-Grommel—Fastex Div III
 Tool Works
 Plaste-Kote—Argos Prods Co
 Plaste-Rivet—Fastex Div III Tool
 Works
 Plaste-Iron—Natl U S Radiator
 Corp
 Plaste-Nickel—Natl U S Radiator
 Corp
 Plaste—Richardson Co
 Plaste-Silicon—Natl U S Radiator
 Corp
 Plasturbo—Master Appliance
 Playmaster—Market Electric
 Plexicorder—Consolidated
 Electrodynamics
 Plica—Flexaust Co
 Plugline—Jacobs Instrument
 Plug-Stat—Control Products Inc
 Plus Module—Anstey Mfg Co
 Arthur
 Plyacene—Reichhold Chemicals
 Plyamine—Reichhold Chemicals
 Plyamul—Reichhold Chemicals
 Plyphen—Reichhold Chemicals
 Plybulbar—Tennalab
 PM—General Riveters
 PMP—Precision Metal Products
 PNR—Rockbestos Prods
 Pocket Pager—DuKane Corp
 Pocket Power—Cook K Frank R
 Pocketscopes—Waterman Prods
 Polars—General Electric
 Polotract—Southern Instruments
 Polar Path—Eclipse Pioneer
 Bendix
 Poles—Union Plastics
 Policarb—Driver Co Wilbur B
 Poligonal—A R F Products
 Polybond—Polymer Industries
 Polycon—Southern Electronics
 Corp
 Polyrouler—CBS Labs Inc
 Polycouler—CGS Labs
 Polycold—Carbolite Co
 Polycor—Borden Co

BRAND and TRADE NAME INDEX

- Polyenco—Polymer Corp
 Polytron—Crowley Div Aerovox
 Polysar—Kendall Co
 Polytex—Crowley Div Aerovox
 Polytren—Pres Industrial Prods
 Polyvite—Reichhold Chemicals
 Polyvite—Bethlehem Apparatus
 Polyvite—Polytechnic Res & Dev
 Polyvite—Reichhold Chemicals
 Polyvite—Polymer Corp
 Polyplate—Sturges Co
 Poly-Plates—Brady Co W H
 Polyplexer—Sensitive Research Inst Corp
 Polystrip—Int'l Resistance
 Polytan—Lenz Elec Mfg
 Polytan—Acme Wire
 Polyvarcon—Argonne Electronics Mfg
 Polyvial—Olympic Plastics
 Polyvin—Technicraft Co
 Pomadac—Preslo Recording
 Ponce—Ponm Mach Cutting
 Pongometer—Acton Labs
 Pop—United Shoe Machinery Corp
 Poro-Tub—Lamtex Industries Corp
 Portable—Webcor Inc
 Porta-Kall—Loose Sound Engineers
 Portlamast—Magnesium Prods of Milwaukee
 Port-A-Phone—Feiler Eng'g Corp
 Portaplex—Chicago Industrial Inst
 Portavox—Polytronics Inst
 Port-A-Rect—Industrial Electrical Works Inc
 Portovox—Flexaust Co
 Posiflex—Fourden Inc
 Potopod—Clarostat Mfg
 Potometer—Potter Aeronautical Powermeter—United Shoe Machinery Corp
 Power Fireball—JFD Mfg Co
 Power Helix—JFD Mfg Co
 Powerjet—United Shoe Mch
 Powerjet—Industrial Elec Works
 Power-House—Black Light Prods
 Power Lab—Precision Development
 PowerLab—Guardian Elec Mfg
 Powermaster—Hupp Electronics
 Power-Packer—Dyner Inc
 Power-Pak—Black Light Prods
 Powerstat—Superior Electric
 Powerstreak—Amer Elec Cable
 Powertran—Ferroltran Electronics Co
 Power-Kord—Royal Electric Corp
 Powerpage—University Loud-speaker
 Power-Rib—Dhmitz Mfg Co
 Precac—Airpax Prods Co
 Precision—Ohm—Precision Inc
 Precision—Lincoln Elec Co
 Precision—Precision Apparatus Co Inc
 Precision-Built—Pratt Albert
 Precision Charge—Lincoln Electric Co
 Precision Counters—Dittmore
 Precision Corp—Freemuth Corp
 Precision Made—C-L Electronics
 Precision Master—Mid-Century Instrumental Inc
 Press-Panto—Preis Engraving Machine Co
 Preload—Webcor Inc
 Premaat—Premax Prods Div
 Prechism—Ryder Co
 Premier—Nat'l TV Tube Inc
 Prem-O-Rak—Premier Metal Products Co
 Prescott—Prescott TV Co
 President—Simpson Co
 Presto-Fit—Spectro Corp
 Prestite—W V Pulz & Paper
 Pressovac—Central Scientific
 Pressure Blast—Cro-Plate Co
 Pressure Switches—Miller-Robinson Co
 Prestige—Phaoston Instr & Elec Co
 Pres-Tite—Wind Turbine Co
 Presto—Presto Seal Mfg
 Presto-Splicer—Prestoseal Mfg Co
 Pre-Vu—Channel Master Corp
 Printable—American Printed Circuits Co
 Print-D-Lite—Linde Co
 Printometer—Electro-Physics
 Private Eye—TV Utilities
 Privatizer—Hudson American
 Private—North Elec Co
 Private Label—Wells-Gardner & Co
 Private Line—Conn Telephone & Elec
 Probomat—Warner & Swasey Res Corp
 Probe-Master—Kingson Electronic
 Probograph—Warner & Swasey Res Corp
 Procedure Trainers—Stanley Aviation
 Producers Service—Producers Sales Corp
 Prodag—Acheson Colloids
 Productimeter—Durant Mfg
 Professional JR—Camera Equip Co
 Profocorder—Micrometrical Mfg Co
 Proheliometer—Micrometrical Mfg
 Program Repeater—MacKenzie Electronics
 Progress Line—General Electric
 Projectorama—Century Lighting
 Porkop—Sprague Electric Co
 Promatic—General Control
 Propellair—Robbins & Myers Co
 Proprogam—Rotron Mfg Co
 Pro-Rapier—Wollensak Optical Co
 Project-A-Call—Simpson Mfg Co
 Mck
 Protecto-Seal—Phelos Dodge Cooper
 Protectrol—Automatic Control Co
 Protectowire—Protectowire Co
 Production Services—Film Associates Inc
 Piromakia—Printed Electronics
 PRP Photocon Research Products
 Psychron—Flex Instrument
 Pulsescope—Waterman Products
 Pulsigonal—A R F Products Inc
 Pulsimeter—Airpax Products Co
 Pulsimeter—Electronics Specialty Co
 Pultrator—Packard-Bell Electronics Corp
 Pur-A-Weld—Acme Protection Equip
 Pushin Zip—Vector Electronic Co
 Pushlock—Whitico Inc
 Pushnut—Palnut Co
 PVZ—General Electric
 PVC—Goodrich Sponge Rubber Prods
 PVC—Royal Electric Co
 Pyraline—National Co
 Pyle-Star-Line—Pyle National Co
 Pylets—Pyle National Co
 Pyralin—Du Pont de Nemours
 Pyrex—Central Scientific Co of Canada
 Pyro—Pyrometer Instrument
 Pyrocam—Corning Glass Co
 Pyro-couple—Rovco Inst
 Pyrotron—Aerovox Corp
 Pyromark—Tempil Corp
 Pyromaster—Bristol Co
 Pyromic—Telegraph Construction & Maintenance Co Ltd
 Pyrosac—Kaiser Aluminum & Chemical Sls
 Pyrotrol—Bristol Co
 Pyrcovor—Bristol Co
 Q-Boston—Auburn Mfg
 QD—Melpot Corp
 QDJ Quantumetric Devices
 Q-Fastener—Fastex Div III Tool Works
 Q-Tone—Boonton Radio Corp
 Q-Tran—Johnson Electronics
 Quad Ring—Minn Rubber & Gasket
 Quadranaul—Dynamic Electronics New York
 Quadruphase—General Electric
 Quisite—Mayne Co O J
 Quad-tronic—Wagler Inc
 Qualivite—Volar Corp
 Quantichem—Rov Co Milton
 Quarc—Pyle-National Co
 Quick-Hot—Wen Products
 Quick Lock—Simmons Fastener
 Quickset—Hull Standard Corp
 Quick-Wedge—Kedman Co
 Quietrol—Quietrol Co
 Quik-Plate—Brady Co W H
 Quik-Rig—JFD Mfg Co
 Quik-Shot—Kenmode Mfg Co
 Quisite—H-B Instrument Co
 Quinobond—Johns-Manville
 Quintana—Yennalab
 Quintera—Johns-Manville
 Quinterabond—Johns-Manville
 R & A—Eronca Corp
 Rad-A-Cor—Magnetic Core Corp
 Radalinger—Kay Electric Co
 Radan—General Precision Lab Inc
 Rada-Node—Kay Electric Co
 Rada-Pulser—Kay Electric Co
 Raday—Bolton Labs
 Rada-Swee—Kay Electric Co
 Radat—Shatran Electronic & TV
 Radetector—Jordan Electronics
 Radin—U S Radium
 Radi-Air—Reynolds Electric Co
 Radialhead—Design Tool
 Radiology—Radint Duffler Mfg
 Radiation Monitor—Instruments Inc
 Radicom—Crosby Labs
 Radio Alloy—Driver Co Wilbur B
 Radiocarb A—Driver Co Wilbur B
 Radiocarb Trans-Tel Corp
 Radiocraft—Technicraft Co
 Radiodyne—Western Coil
 Radioeye—Myers & Sons E A
 Radiom—Centralab
 Radiometal—Tele Construction & Maintenance Co
 Radiometer—Bach-Simpson Ltd
 Radionics—Radionics Inc
 Radioplane—Radioplane Div
 Northrup Aircraft
 Radiotron—Radio Corp of America
 Radio Web—Stavid Eng'g Inc
 Radite—Radar Design Corp
 Radsonic—Victorens Inst Co
 Radio—Barratt Electronics Corp
 RAF—Robbins Aviation Inc
 Rafax—Haller Raymond & Brown
 Rascope—Waterman Prods
 Rasol—Radium Chemical
 Ranarex—Permutit Co
 Rangesite—Frankel Connector Co
 Rancho—Western Insulated Wire
 Ranchorone—Western Insulated Wire
 Randac—Mitchell-Rand Mfg Corp
 Randolph—Roberts Metal Prod
 Rangear—Roberts Mfg Co
 Range Lug—Frankel Connector Co
 Ranger—Johnson Co E F
 Ranger—Pye Telecommunications
 Ranger—Shure Bros
 Rangola—Rangertone Inc
 Rans—Extender—Jervold Electronics
 Rapax—Wollensak Optical Co
 Raptar—Wollensak Optical Co
 Raxox—Dawson Chemical
 Rate—Radio TV Products Corp
 Ratotimer—Farmer Electric
 Ratotron—Gerisch Products
 Raven Screens—Raven Screens Corp
 Ravina—Wetcor Inc
 Ray-Actor—Atomic Labs
 Raybond—Raybestos-Manhattan
 Raydist—Hastings-Raydist Inc
 Raylac—Lenz Elec Mfg
 Raymaster—Atomic Labs
 Raymaster—Gales & Co G W
 Raymeter—Atomic Labs
 Rayonic—Waterman Products Co
 Raytron—Atomic Labs
 Raytube—Leeds & Northrup
 Rayzap—Patterson Moss Div
 Raytector—Miller Assoc
 R B C—Roller Bearing Co
 RBI—Datron Electronics
 R-Buffering Rouse—Hanson-Van Winkle-Munning Co
 RCA—Radio Corp of America
 RCA Arlin—RCA Arlin
 RCI—Rotating Components Inc
 RCL—RCL Mfg Co
 RCLiac—Radiation Counter Labs Inc
 H & D—Librascope Inc
 Rof Stikon—Ruge Assoc Arthur Co
 Rea—Rea Magnet Wire Co
 Reac—Reeves Instr Co
 Reac—Rea Co J B
 Ready—Rolab Studios
 Ready-Eddy—Rolab Studios
 Labs
 Ready-Power—Ready Power Co
 Ready-Span—Joy Mfg Co
 Reagear—Rea Co Inc J B
 Reapax—Rea Magnet Wire
 Rea-Reader—Rea Co Inc J B
 Rear Guards—Kay-Towens Antenna
 Reatherm—Rea Co Inc J B
 Re-Cirk-It—Heinemann Elec
 Reco—Recliff Eng'g
 Reco—Reynolds Electric Co
 Recordall—Miles Reproducer
 Records—Eastman Kodak Co
 Record-Flox—Walton Mfg Co
 Recording Heads—Shure Bros Inc
 Records—Recording Corp
 Recordoscope—Aremac Assoc
 Recotcon—Goldring—Recotcon Corp
 Rectagraph—Haloid Co
 Reclipoid—Giannini & Co Inc G M
 Reclit—Texas Instruments
 Rectodyne—Christie Electric
 Redcap—Michigan Electronics
 Red Center—Simonds Saw & Steel
 Red E—Hanson-Van Winkle-Munning Co
 Red Eng—Simonds Saw & Steel
 Red-E-Nut—Frederick Tool & Eng'g Corp
 Red E Use—Hanson-Van Winkle-Munning Co
 Red Line—G-V Controls Inc
 Red Point—Red Control Corp
 Red Seal—Radiant Corp
 Red Streak—Brown-Bridge Mills
 Red Streak—Simonds Saw & Steel
 Red Tang—Simonds Saw & Steel
 Red-Top—H-B Instrument Co
 Red Wood—JFD Mfg
 Reeves—Reliance Electric & Eng'g Co
 Reevelec—Reeve Electronics
 Reholt—Consolidated Controls Corp
 Regatron—Electronic Measurements Co
 Regency—Industrial Dev Eng'g Assoc
 Regent—Webcor Inc
 Regent Stereophonic—Webcor Inc
 Regiscope—Fuzehill Labs Ltd
 Reglogram—Fuzehill Labs Ltd
 Regumatic—CBC Electronics Co Inc
 Regohm—Electric Regulator
 Reg-O-Matic—CBC Electronics
 Regular—Paramount Paper Tube
 Reichert—Hacker & Co Wm J
 Reicherter—Hacker & Co Wm J
 Rejafix—Popper & Sons
 Rejuv Tester—Tele Test Instrument
 Rel—Radio Eng'g Labs
 Reliable Mailer—Corrugated Paper Prod
 Reliac—Sanders Associates
 Reliatron—Westinghouse Electric
 Reloid—Guardian Elec Mfg
 Rembrandt—All Channel Antenna
 Remco—Advance Industries Inc
 Remcon—Pyramid Instrument
 Remotometer—Poole Instrument
 REM—Nebel Lab R E
 Repeater—Kemite Labs Inc
 Repeater Records—Talking Devices Co
 Reporter—Pye Telecommunications
 Report Teletest—Automatic Control Co
 Residential—Northern Industrial Chemical
 Resinite—Borden Co
 Resinopotted—Electro Eng'g Works
 Resinol—Allied Resinous Prods
 Resistance—Mimco Products Inc
 Resip—Fen-Tone Corp
 Resolute—Rex Corp
 Resotron—General Electric
 Resmax—Borden Co
 Reteo—Hitemp Wires
 Retroids—Burnell & Co
 Retriev Omag—Hanson-Van Winkle-Munning Co
 Revcothene—Revere Corp of America
 Revmaster—Opad Electric Co
 Revolute M-3—Paragon-Revolute Corp
 Rex—Air Controls Inc
 Rex—Iron Corp
 Rex—Shure Bros
 RF—Union Electronics & Mach Corp
 RCLiac—Radiation Counter Labs Inc
 RFC—Radio Frequency Co
 RFI—Ace Eng'g & Mach Co
 Rhodex—Sel-Rex Corp
 Rhometal—Telegraph Construction & Maintenance Co
 Rhotron—Jones & Wettlaufer Eng'g Corp
 Ribonette—Fen-Tone Corp
 Ribbon Heat—Cox & Co
 Ricac—Radio Industries
 Ric-Caps—Radio Industries
 Richlain—Richardson Co
 Richmond—Lowell Mfg Co
 Ridgeway—Gravelly Furniture Co
 Rigid-Rig—Medal Mfg Co
 Rinco-Pet—Rinco Inc
 Rinco-Stat—Rinco Inc
 Ring-Jet—Stokes Corp F J
 Riteohm—Dhmitz Mfg Co
 Ri-Trans—Radio Inds
 Rival—Hanson-Van Winkle-Munning Co
 Riverside—Porter Co Inc H K
 Riviera—Cousino IncRivnuts—Goodrich Aviation Prods
 R-M—Raybestos-Manhattan
 R & M—Robbins & Myers
 R M C—Radio Materials Corp
 RMS—Radio Merchandise Sales
 R-9A—Harvel-Wells Electronics Inc
 R-95—Ravthorn Mfg Co
 Robbins—Robbins Aviation Inc
 Robbasset—Lavoie Labs Inc
 Robogprinter—Lavoie Labs Inc
 Robot—Miller-Harris Instrument Co
 Robotactor—Lavoie Labs Inc
 Robotester—Lavoie Labs Inc
 Robot-Eye—Standard Instrument Corp
 Robotonob—Vector Electronics Co
 Robotrol—Reliance Automatic Lighting
 Robotron—Emmet Mach & Mfg
 Rocbar—Rocbar Corp
 Rodar—Driver Co Wilbur B
 Rodler—Rome Cable Corp
 Rogar—Roly Studios
 Rol-Dex—Walton Mfg Co
 Rol-Die—Cron Inc
 Rolene—Rome Cable Corp
 Rollicon—Circon Components Corp
 Rollotron—Amer Air Filter
 Rollipin—Elastic Stop Nut Co
 Romarin—Rome Cable Corp
 Rome—Leas Inc
 Romes—General Cable
 Rondine—Reh-O-Kut Co
 Rounding—Reh-O-Kut Co
 Ronemike—Ronette Acoustical Corp
 Roorene—Rome Cable Corp
 Rosco—Roscoe Labs
 RossinX—Dumton Co M V
 Rosinlet—Havag Industries Inc
 Rosslyn—Kinney Co Inc Joseph
 Rotalyzer—Kay Electric Co
 Rotary Ratio-tran—Gerisch Products Co
 Rotator—Hygain Antenna Products Co
 Roto Brake—HyGain Antenna Products Co
 Rotobridge—Comm Measurements
 Roto-Glone—American Air Filter Co Inc
 Rotofold—Reflectone Corp
 Roto-King—JFD Mfg Co
 Roto Lock—Simmons Fastener
 Rotomatic—Johnson Co E F
 Roto-Merc—General Bronze
 Roto Mold—Linear Inc
 Rotopake—HyGain Antenna Prod
 Roto Relay—Corona Eng'g Service
 Rotran—Consolidated Wire & Assoc Cos
 Rotoroid—Burnell & Co
 Rotolod—Roto Mfg Co
 Rotolegger—Gianini Co
 Roto-Tek—Hvdon Co A W
 Roto-Trols—Healy-Ruff Co
 Roy-A-Life—Tevrad Co
 Royal—Trio Mfg Co
 Royal—Webcor Inc
 Royal Blue—Permoflux Prods Co
 Royal Coronet—Webcor Inc
 Royal Crystal—Royal Electric Co
 Royalistic—Industrial Condenser
 Royal Sharpshooters—Trio Mfg Co
 Royal Stereo—Webcor Inc
 RoZon—Rome Cable Corp
 RP—Rue Products
 RRC—Resistance Products
 RS—Hanson-Van Winkle-Munning Co
 RSCQ—Research Specialties
 R-210—Silicones Div Union Carbide
 R-620—Silicones Div Union Carbide
 R-64—Silicones Div Union Carbide
 RS Switch—Switchcraft Inc
 RT 203 Resuvalster—Teletest
 RTV—Clarostat Mfg
 Rub-Erok—Richardson Co
 Ruby-Ruby—Ruby Chemical Co
 Ruby's—Ruby Chemical Co
 RuW-L-Buff—Hanson-Van Winkle-Munning Co
 Rugged—WIG Inc
 Ruggedized—Marion Electrical Inst Co
 Rugged Relays—WIG Inc
 Rulan—Du Pont de Nemours
 Rulon—Dixon Corp
 Ruralay—General Cable
 Ruze—Palmer Inc M V
 Rush-Erase Co
 Rustbond Primer—Carboline Co
 RVS Mark I—Industrial Electronic Enn
 RX Meter—Boonton Radio Corp
 Rycom—Railway Communicator
 Ryrex—Corning Glass Works
 Sadic—Consolidated Electro-dynamics
 Safe Ex—Modern Lab Equip Co Inc
 Safe-L-Aire—Hanovia Lamp Div
 Safe-T-Klip—Industrial Devices Inc
 Safety-Glo—Rodale Mfg Co Inc
 Safety m—Gen'l Cable
 Safety-Plus—Chicago Screw Co
 Saf-T-Chlor—Colonial Alloys Co
 Saf-T-Soil—Fidelity Chemical Prod Corp
 Sa-Fuse—Electric Machinery Mfg Co

BRAND and TRADE NAME INDEX

- St Marys—St Marys Carbon Co
 Salvage Kraft—Fluquill Products
 Sapphires—National Aeronautical
 Sarah—Simmons Aerosystems
 Sargent Switches—Sargent
 Electric Corp
 Sartorius—Central Scientific Co
 of Canada Ltd
 Sassi—Assoc Amer Trading Div
 Satellite—JFD Electronics Corp
 Satellite—Radion Corp
 Sator—Havag Industries Inc
 Sator—Gary Wells Co Inc
 Sauer—Rotran Mfg Co
 Sauerline—Fretco Inc
 Sav-A-Step—First Electronics
 Saverisen—Saverisen Cements
 Co
 S-B—Hanson-Van Winkle-
 Munning Co
 Scandex—Intelligent Machines
 Res Corp
 Scenic Roller—Da-Lite Screen
 SCE Solution—Hunt Co Philip A
 Schenck—Cosa Corp
 Schuyler—Schuyler Mfg Corp
 Schwepco—Phoell Mfg Co
 Scientific—Scientific Radio Prod
 Inc
 Scintillator—Precision Radiation
 Inst
 Scintillite—Spincraft Inc
 Scmatic—Stone City Mch & Tool
 Scope Dolly—P B R Mfg Co
 Scotch—Minn Mining & Mfg
 Scotch Brand—Minn Mining &
 Mfg
 Scotchcast—Minn Mining &
 Mfg
 Scott—Remler Co
 Screw-Lock—Heli-Coil Corp
 Scribescote—Fluquill Products
 Scromag—Acromag Inc
 SC-16—Hamilton Watch Co
 SD-10—Hamilton Watch Co
 Sealant—Amer Sealants
 Sealrite—London Chemical Co
 Sealink—Burdny Corp
 Sealnut—Radio Frequency Labs
 Inc
 Sealol—Sealol Corp
 Seal Sclicate—Phila Quartz Co
 Seals-O-Rings—Raybestos-Man-
 hattan Inc
 Seararer—Hudson American
 Sec—Southern Electronics
 SEC—Stewart Eng'g Co
 Seco—Seco Mfg Co
 Secode—Electrical Communica-
 tions Corp
 Secotler—Maico Electronics Inc
 Sector—Jensen Mfg Co
 Security Brand—Ade Electric Mfg
 Co
 Seelbolt—Automatic & Precision
 Mfg
 Seelrivet—Automatic & Precision
 Mfg
 Seelcrew—Automatic & Precision
 Mfg
 Sees-O-Mike—Poole Instrument
 SeeZak—U M & F Mfg Corp
 SEG—Seg Electronics Co Inc
 SEI—Scantlin Electronics Inc
 Seismat—Texas Instrument
 Seismatron—Texas Instrument
 Sels—Mahoney Telephonic Labs
 Inc
 Select-A-Speed—Allis Co Louis
 Selectenna Couplers—Channel
 Master Bow
 Selectofon—Audio-Master Corp
 Selectohm—Chicago Industrial
 Inst
 Selectohm—Barnett Instrument Co
 Selectophon—Audio-Master Corp
 Selectrol—Automatic Control Co
 Selectronics—Electrical Commu-
 nications
 Seltek—Assoc Amer Trading Div
 Selenibrake—Amer Rectifier
 Selenicharger—Amer Rectifier
 Corp
 Selenifier—Amer Rectifier Corp
 Selenita—Assoc Amer Trading Div
 Self-Checking—Sensitive Res
 Inst Corp
 Sel-Lok—Standard Pressed Steel
 Co
 Sems—Shakeproof Corp
 Sempak—Shakeproof Div of IIT
 Tool Works
 Sencore—Service Instrument
 Sensitive—Superec Electronics
 Corp
 Sensitrol—Wetlon Instr Div
 Sensitrometer—Electronics Spe-
 cially Co
 Sensory—Sturtevant Co P A
 Sensory Signalling—Sturtevant
 Co P A
 Sentinal—Cincinnati Time Rec-
 order Co
 Sentry—Verd-A-Ray Corp
- Sevosped—Electro-Devices
 Sevetrol—Emmett Mach & Mfg
 Seramite—Good-All Electric
 Serenade—Channel Master Corp
 Series JRC—Vocaline Co of
 America
 Serrasoid—Radio Eng'g Labs
 Service Savers—JFD Electronics
 Corp
 Servicespool—Alpha Wire
 Servite—Gordon Co C S
 Servo—Servo Systems Co
 ServoBoard—Servo Corp of
 America
 Servoflex—Servo Corp of America
 Servoflight—Servo Corp of Amer
 Servofax—Servo Corp of America
 Servo-Graphix—Stoelting Co C H
 Servo Lubr—Tapper Mfg Co Inc
 Servomat—Servo Corp of
 America
 Servoscope—Servo Corp of
 America
 Servosped—Electro-Devices Inc
 Servotherm—Servo Corp of
 America
 Servotran—Humphrey Inc
 Servo Transport—Shepard Labs
 Inc
 Setko—Set Screw & Mfg Co
 Seven—Tuttle & Kiff
 Seven Leagues Ahead—Thermador
 Shawmut
 Seven-O—Mosinee Paper Mills Co
 777 Series—Warren Corp J C
 Seymour—Seymour Mfg Co
 S F Switchcraft
 Shadograph—Exact Weight Scale
 Shaffro—Jordan Co Inc
 Shakespears—Columbia Products
 Shannon-Glow—Shannon Luminous
 Materials
 Shannon Line—Shannon Luminous
 Materials
 Shaverite—Kinetics Corp
 Shawmut—One-Time—Chase-
 Shawmut
 Shear-cutter—Shearcut Tool Co
 Shelf-A-Therm—Temperature
 Eng'g Corp
 Shieldair—Shielding Inc
 Shield Arc—Electric Co
 Ship-Ease—Radix Wire Co
 Ship Shape—Bemis Bro Bag
 Shirlan—Du Pont du Nemours
 Shirley—Ercona Corp
 Shock Bitt Mailer—Corrugated
 Paper Prod
 Shop Aids—Authorized Mfrs
 Service Co
 Shor-Rate—Portable Electric Tools
 Inc
 Sho-Rate—Brooks Rotameter
 Shorthorn—Klisch & Assoc
 Shorty—JFD Electronics Corp
 Showman—Channel Master Corp
 Shurlo—Anchor Metal Co
 Shur-Flo—Havag Mfg
 Shurite—Shurite Meters
 Shut Out Helix—JFD Electronics
 Corp
 Shuvee—Entron Inc
 Sicco—Single Crystal Corp of
 America
 Siron—Midland Industrial Finis-
 hies Co
 Side Zip—Vector Electronic Co
 Sico—Sherman Industrial
 Electronics Co
 SIE—Southwestern Industrial
 Electronics Co
 Siemens—Southwestern Industrial
 Electronics Co
 Siemens—Ercona Corp
 Si-Fe-Mag—Thomas & Skinner Inc
 Signalert—Packard-Bell Electronics
 Corp
 Sightmaster—Art Specially
 Sightmaster—Flexco Int'l Corp
 Signaltron—Intercontinental
 Dynamics
 Signa-fo—Buffalo Electronics
 Signs-Glow—Industrial Devel
 Signalite—Signalite Inc
 Signal Sentry—Johnson Co E F
 Signalix—LaMore C D
 Silastic—Dow Corning Corp
 Sil-Bond—United Wire & Supply
 Silcaid—Yarnfeld Electric
 Silicobest—Silicone Insulation
 Silertex—Erie Resistor Corp
 Sil Flux—United Wire & Supply
 Sil-Fos—Handy & Harman
 Silicite—LaMore C D
 Silir-O-Nelr—Heinemann Elec
 Silikon—Ed-Berl Products
 Silenite—Acme Wire
 Silvond—Republic Foil & Metal
 Mills Inc
 Silux—Anacanda Wire & Cable
 Silux—Thermotron Inc
 Silube—Ed-Berl Products
 Silvaloy—Amer Platinum Works
 Silveramic—Ward Products
 Silver Arrow—Fretco Inc
- Silvercel—Yardrey Electric
 Silver King—Da-Lite Screen
 Silver Klud—St Eloi Corp
 Silver Label—Duntun Co M W
 Silver-Lume—Hanson-Van Winkle-
 Munning Co
 Silvermint—St Eloi Corp
 Silver-Packets—Bigelow Metalliz-
 ing Chem
 Silver-Q—Decimeter Products
 Silver Screen 100—Krisz Elec-
 tronics Inc
 Silvertron—Warwick Mfg
 Silver Wand—Peerless Prods Inc
 Silver-Sel-Rex Corp
 Silvsteel—Emerson-Sack-Warner
 Silwond—Republic Foil & Metal
 Simulair—Simulair Prods
 Corp
 Simplex—Barnett Instrument Co
 Simplex—Chicago Industrial Inst
 Simplex—Wentco Mfg Co
 Simplex—National Aeronautical
 Corp
 Simulair—Assembly Prods Inc
 Simulair-Phoenix—Phoenix
 Precision Instru
 Sincomax—Maurex Ltd
 Sindak—Southern Instr Computer
 Sintonal—National Radiac
 Spac—Geotronic Labs Inc
 Siskin—Hanson-Van Winkle-
 Munning Co
 Siskwee—Hanson-Van Winkle-
 Munning Co
 S Case—Thomson Industries
 SCS—Phaoston Instru & Electric
 Co
 SIZ—Johnson Co E F
 SJID—Hoffman Electronic Corp
 SK—Skolite Electronics
 SKL—Spencer-Kennedy Labs
 Sky-Mi—Thomas Mold & Die
 Skyl Kyd—Phelps Dodge Copper
 Prods Corp
 Sky—JFD Mfg Co
 Sky-Span—Siatron Electronics &
 TV Corp
 SL—Mallinckrodt Chem Works
 Slender-Torn—Wappler Inc
 Slendyne—Shure Bros
 Slide-N-Cut—Cook Research Labs
 Slidohm—Aerovox Corp
 Sliferlite—Grant Pulley & Hdwe
 Corp
 Slikwond—Republic Foil & Metal
 Slimtron—Liton Ind of Md
 Slim-X—Shure Bros Inc
 Slip Drive—Clorastal Mfg Co Inc
 SLM—Ketter Instr Corp
 Sio-Lag—Eagle Electric Mfg Co
 Sio-Speed—Sterling Electric
 Motors
 Slumber-Glo—Rodalde Mfg Co Inc
 Slumbertron—ElectroSound Corp
 SM Safety Talk—Astron Corn
 SMI Talk—Simpson Mfg Co
 SMC—St Marys Carbon Co
 Smit—Hunter Tools
 Smoo-free—Radex Corp
 Smoke-Eve—Standard Instr Corp
 Smokegag—Ess Instrument Co
 Smoke Photometer—Phoenix
 SMO—Precision Instr Co Inc
 Smoothie—Resistor Inc
 Snaço—Schirmer-Nat'l Alarm S
 N Alarm—Schirmer-Nat'l
 Alarm
 Snaqit—Cable Electric Products
 Snaq-ack—Jan Hardware Mfg Co
 Inc
 Snaqrol—Lero Electronics Inc
 Snaq-On—Snaq-On Tools Corp
 Snaqper—Curtiss-Wright Corp
 Snaqy-Jector—Gorn Electric Co
 Inc
 Snaq-Tite—Centralab
 Sniffer—Johnson Williams Inc
 Snorkel—Ration Corp
 Snowhite—Luxor Lighting Prods
 Soda-Lite—Electric Auto-Lite Co
 Sodereze—Phelps Dodge Copper
 Prod
 Sola-Flex—Solar Aircraft Co
 Sola-Hoff—Electronic Corp
 Sola-Ramic—Solar Aircraft Co
 Solarcheck—Solartron Electronic
 Group Ltd
 Solargray—Pittsburgh Plate Glass
 Co
 Solarscope—Solartron Electronic
 Group Ltd
 Solartron—Solartron Electronic
 Group Ltd
 Sol-Volt—Sola Electric Co
 Solderize—Phelps Dodge Copper
 Prod
 Soldermaster—Hexacon Elec Co
 Solder-Matic—Atlas Mfg Co Inc
 Solderite—General Ceramics Corp
 Solderux—Mico Instrument
 Solderzall—Brach Mfg
 Solidator—Mallory & Co Inc PR
 Solite—Solar Aircraft
- Sol-Rex—Herzog Miniature Lamp
 Works
 SOMCO—Simpson Optical Mfg Co
 Sonaphan—Kay Electric Co
 Sonaz-Graph—Kay Electric Co
 Sonaz-Stretcher—Kay Electric Co
 Sonaz-Sweep—Kay Electric Co
 Sonata—Beam Industries
 Sonic—Sonic Industries Inc
 Sonitell—Gen'l Ultrasonics
 Sonisystem—Gen'l Ultrasonics
 Sonotanks—Gen'l Ultrasonics
 Sonite—Smooth-On Mfg
 Sonizon—Magnaflex Corp
 Sonodyne—Shure Bros
 Sonogen—Branson Instru
 Sono-Kleen—Sonoborn Sons L
 SonomaMar—Sonoborn Sons L
 Sono-Probe—Advanced Electronics
 Soreng—Controls Co of America
 Soreng Controls—Controls Co of
 America
 Soundasorb—Jack Scientific Co
 Soundcraft—Reeves Soundcraft
 Soundscope—Mines Safety
 Apparatus
 Soundscriber—Sound Scriber Corp
 Soundtrax—Miles Reproducer Co
 Soundview—Kalart Co Inc
 Southco—Southco Div South
 Chester Corp
 Southern—Southern Screw Co
 Spans—Sensory Inc
 Spar—Video Accessory Mfg
 Spark Protractor—Photocon
 Research Prods
 Spaulding T—Spaulding Fibre Co
 Inc
 Spauldite—Spaulding Fibre
 Spauldite—Spaulding Fibre
 Specialime—Hanson-Van Winkle-
 Munning Co
 Special Series—United Trans-
 former Corn
 Spec-Power—Nat'l Spectrographic
 Spect—Photo Research
 Spectra-Bond—Organic Develop-
 ment Corp
 Spectra-Ink—Organic Develop-
 ment Corp
 Spectra-Strip—Organic Develop-
 ment Corp
 Spectra Stripper—Organic Devel-
 opment Corp
 Spectrolux—Luxor Lighting Prods
 Spectromet—Burd Assoc
 Spectron—Consolidated Electro-
 dynamics Corp
 Spectroscopic—Consolidated
 Electrodynamics Corp
 Spectrum—Spectrum Instruments
 Inc
 Spectrum—Single Crystal Corp
 of America
 Speech Master—Jensen Mfg Co
 Speed Bin—Speedsassembly Equip
 Speed Chassis—Specific Prods
 Speed Clamps—Timmerman Prods
 Speed Clips—Timmerman Prods
 Speed Control—Safe Flight
 Instrument
 Speedcraft—Wire Stripper
 Spee-Dee—Peck & Harvey Sales
 Corp
 Speedex—Gen'l Cement Mfg Co
 Speed Grids—Timmerman Prods
 Speedmaster—Accurate Eng'g Co
 Speedmaster—Peck & Harvey
 Sales Corp
 Speed Nuts—Timmerman Prods
 Speedomax—Leeds & Northrup Co
 Speed-Trol—Sterling Elec
 Motors
 Speedvoter—Servo-Tek Prod Co
 Speedway Silverline—Speedway
 Mfg Co Div Thor Tool
 Speed-X—Johnson Co E F
 Speedy-Cal—North Shore Name-
 plate Inc
 Speedy-Marx—North Shore Name-
 plate Inc
 Speedy-Zoner—General Railway
 Signal Co
 Speegee—Brooks Rotameter
 Speer PAC—Jeffers Chemicals
 Spekulumite—Special Chemicals
 Corp
 Spekleen—Special Chemicals Corp
 Spencer—American Optical Co
 Spice Chest Radio—Guild Radio
 & TV Corp
 Spind—Shirling Prods Co
 Spinder—Camera Equip Co
 Spinglas—Lenz Elec Mfg
 Spincoustic—Johns-Manville
 Spoinlab—Special Instruments
 Spin-Lock—Russell Burdall &
 Ward
 Spin-Pin—Bruno-NY Industries
 Spintite—Stevens Walden
 Spuracode—Alphaduct Wire &
 Cable Co
 Spirafix—Saxton Products
 Spirafix—Phelps Dodge Copper
 Prods
- Spiralpot—Giammi & Co
 Spiral-Tenna—Hunt Co TV Antenna
 Spiral Whip—Illumitronic Eng'g
 Spirator—Hunter Spring Co
 Spirolux—Thompson Prods
 Spirolux—Ramsey Corp
 Spirotallic—Johns-Manville
 Spolac—Westline Products Div
 Spongex—Goedrich Sponge Prods
 Corp
 Spotcheck—Magnaflex Corp
 Spraint—Waldom Electronics
 Spra-Kleen—General Cement Mfg
 Co
 Spra-Koat—General Cement Mfg
 Co
 Spring-Cork—Spring Packing
 Spring-Felt—Spring Packing
 Spring-Kote—Spring Packing
 Springlocks—Simmins Fastener
 Spring-O-Matic—Industrial Elec
 Works
 Spring-Tape—Spring Packing
 Spring-Waldom Electronics Inc
 Square-Ohm—Bradford
 Components
 Square-Ohm—Workman TV Inc
 Squib—Atlas Powder Co
 SRC—Br Radio Electronics
 SRP—Sonoborn Sons L
 SR—Baldwin-Lima-Hamilton
 Corp
 SSB—Kahn Research Labs Inc
 Stables—Industrial Condenser
 Stabiline—Superior Electric
 Stabilvot—Magnetic Research
 Staco—Standard Electrical Prods
 Sta-Kon—Bells & Thomas Co
 Sta-Loc—Gen'l Cable
 Stantal—Stantal Manufacturing Co
 Stancor—Ch Sld Transformer
 Stancote—Standard Wire & Cable
 Standard—Hill-Standard Corp
 Standard—New York Solder Co
 Standard-Fireball—Standard Coil
 Prod
 Standard Neutrode—Standard Coil
 Prod
 Standee—Clavostat Mfg Co
 Stando—Parker Metal Goods Co
 Standohm—Tru-Ohm Prods
 Stanon—Gen'l Cable
 Stanflex—Std Wire & Cable
 Stanomatic—Std Register
 Stanscrew Fasteners—Standard
 Screw Co
 Stapin—Burdny Corp Omalon
 Staplband—Hanson-Van Winkle-
 Munning Co
 Sta-Pac—Consolidated Wire &
 Assoc Cts
 Star—Star Expansion Prods
 Star-A—Star-A-Electric Mfg Co
 Inc
 Star-Helix—JFD Mfg Co
 Starlight—Wetzer Eng'g
 Star-Line—Duolet Inc
 Starline—Shure Bros Inc
 States—States Co
 Statralator—Hewson Co
 Statiflux—Magnaflex Corp
 Stat-O-Seal—Wolfe Co F C
 Stat-Tran—Pulse Eng'g
 Stavolt—Christie Electric
 Sta-Warm—Electric—Sta-Warm
 Electric Co
 Stay-Skin—Conslad Labs
 Stazon—Precision Thermometer &
 Instr Co
 Steel Age—Corry-Jamestown Mfg
 Steelar—All-State
 Steinhel—Eakta Camera Co
 Steinlite—Stein Labs
 Stein Mill—Stein Labs
 Stemco—Stevens Mfg Co
 Stentorian—Balco Research Co
 Steppar Motor—Land-Air Inc
 Step-Servo—Bergen Labs
 Step-Trol—Control Corp
 Step-Up Kits—Jensen Mfg Co
 Stereon—Firth Sterling Inc
 Stereo—Webcor Inc
 Stereo Custom 10—Webcor Inc
 Stereo-Magnemite—Amplifier Corp
 of Amer
 Stereoscopic—Sonic Industries Inc
 Stereoxox—Linar Inc
 Stereoxox—Permoflux Prods Co
 Sterilare—Black Light Corp
 Sterilare—Ultra-Violet Prods
 Sterling—Beam Instrument Corp
 Sterling—Sterling Varosh Co
 Stero-magic—Penlon Corp
 Stervac—Firth Sterling Inc
 Stethalizer—Maico Electronics Inc
 Stethetron—Maico Electronics Inc
 Stethoscopes—Feiler Eng'g Mfg
 Co
 Stewart-Process—Stewart-Trans-
 Lux Corp
 Stewart-Translux—Trans-Lux Corp
 Stewart TV Blue—Stewart-Trans-
 Lux Corp
 Stibnalon—Green Rectifier Co
 Stokes PVC—Stokes Molded Prods

BRAND and TRADE NAME INDEX

- Voltohmyst—Radio Corp of America
 Voltverter—Quantum Electronics Inc
 Volvac—Vovac Co
 Voltliner—Vovac Co
 Vortan—Vovac Co
 Vortin—Vovac Co
 Vortin—LaMoree E D
 Vortin—LaMoree C D
 Vortran—Lear Inc
 Voycall—Lase Mfg Co
 VPS-T90—Harvey Wells Electronics
 VR-11—General Electric
 VTGrid—Seco Mfg Co
 VTVM—Seco Mfg Co
 Vu-Brite—Perma-Power Co
 Vu-Graph—Beseler Co Charles
 Vulcor—Continental-Diamond Fibre
 Vul-Cot—Nat'l Vulcanized Fibre
 Vulcan—Vulcan Electric
 Vu Magnemite—Amplifier Corp of America
 Vycor—Corning Glass Works Corp
 Vyha-Kote—Organic Development Corp
- W**
- W & A—Hanson-Van Winkle-Munning Co
 Wac—Winder Aircraft of Fla
 Waco—Calcon Mfg Co
 Wac Tac—WacLine Inc
 Wahluquet—Nilsson Electrical Lab
 Wahluquet—Nilsson Elec Lab Inc
 Walco—Electrovac Co
 Walden—Stevens Walden
 Waldom—Waldom Electronics Inc
 Walkershone—Pye Telecommunications
 Walkie-Recordall—Miles Reproducer Co
 Walton—Abbeon Supply
 Warco—Warren Corp
 Ware B Ball—Ward Products
 Warner Red Cap—Warner Ventilator
 Warrenex—Warren Wire Co
 Warrenite—Warren Wire Co
 Warrior—Sangame Electric Co
- Washington—Calcon Mfg Co Inc
 Wasp—Newbury Industries Inc
 Wassco—Wassco Electric Prod Corp
 Watchmaster—American Time Products Inc
 Waterwite—Bache & Co Simon
 Watterson—Davis & Co J W
 Waverly Products—Consolidated Molded Prods Corp
 Wax-ometer—Micrometrical Mfg Co
 W & C—Hanson-Van Winkle-Munning Co
 Weathermaker—Carrier Corp
 WAC—Ward Products
 WEAC—Western Electric Co
 Weatherfax—Times Facsimile Corp
 Weather-Master—Jensen Mfg Co
 Weathers—Advance Industries
 Web-Ship—Webster Mfg Co
 Wedglock—Wedglock Corp
 WE—Handley—Handley Electronics Inc
 Weightronic—Taller & Cooper Inc
 Weicaps—General Electric
 Welch Ally—Allyr Inc Welch
 Welco Torque—Wesche Electric Co B A
 Welcom—Welwyn Int'l Inc
 Weldmatic—Weldmatic Div
 Unitek Corp
 Weldrawn—Superior Tube
 Weldsteel—Pittsburgh Plate Glass Co
 Weldwood—U S Plywood
 Welmes—Welwyn Int'l
 Welmes—Welwyn Electrical Labs
 Welmet—Welwyn Int'l
 Wellronac—Welltronic Co
 Welwyn Canada—Bach-Simpson Ltd
 Wempy—Westfield Metal Prods
 Wen—Wen Products
 Wesbar—Wesbar Stamping Corp
 Wesgo—Western Gold & Platinum
 Westach—Westberg Mfg
 West-Cap—San Fernando Electric
 Whale—Forsberg Mfg Co
 What's New In Hearing—Masco Electronics
- Whipload—Johnson Co E F
 Whirlclad—Polymer Corp
 Whirsint—Polymer Co
 Whiteite—Abbeon Supply
 Whitney-Jensen—Whitney Metal Tool
 Whiz-Saw—Forsberg Mfg Co
 Wico—Wire Co of Amer
 Wide-Range—Aflon Industries
 Wide Strip—Bristol Co
 Wide-Vue—Simpson Electric Co
 Widget—Dan-Lan Electronics Co
 Wire-Saver—Simpson Mfg Co
 Wigo—United Audio Prods
 Welbac—Bach Simpson Ltd
 Wilbro—Wildberg Bros Smelting & Refining Co
 Wilhor—Aerovox Corp
 Williamsgrig—Garrett Corp
 Willson—Ray-O-Vac Co
 Wilrite—Wilrite Products Inc
 Winchester—Mathieson Chemical Corp
 Winco—Wincharger Corp
 Windsor—James Int'l Corp
 Winegard—Winegard Co
 Win-Tronic—Wintron Electronic
 Wipe—Metrix Chemical Co
 Wirebinder—Gerrard & Co A J
 Wire-Less-Com—Simpson Co Mark
 Wireless Electronic Nurse—Simpson Mfg Co Mark
 Wirelesfone—Simpson Mfg Co Mark
 Wireless-Talk—Simpson Mfg Co Mark
 Wirenut—Ideal Industries
 Wirewatt—Ohmite Mfg Co
 Wirt—Continental Carbon Div
 Wirtl Co
 Wissh—Workman TV Inc
 WissJet—Workman TV Inc
 Wobulator—Canoga Corp of Calif
 Woelke—Gary Wells Co
 Wonder-Bow—Channel Master Corp
 Wonderflux—American Silver Co Corp
 Wonder-Helix—JFD Electronics
 Wonderod—Columbia Products
 Wood-Ray—Woodwelding Inc
- Wood-Welder—Cavatron Electron Oscillator
 Worden—Texas Inst Inc
 Work-Lite—McGraw-Edison Co
 Worometer—Stewart Instrument Munning Co
 Wrap-Rax—Hanson-Van Winkle-Munning Co
 Wrinlay—Photo Chem Prods of Calif
 W-Series—Engineered Electronics Co
 WW-400—Warren Wire Co
 WW-500—Warren Wire Co
 WW-800—Warren Wire Co
 WWVc—Specific Products
 Worometer—Stewart Instrument
 Wyco—Wyzenbeeb & Staff
 Wyd-Angle—Ess Instrument Co
- X**
- Xactemp—Gordon Co Claud S
 Xactlin—Gordon Co Claud S
 Xcelite—Xcelite Inc
 Xela—Klein & Sons Mathias
 Xelon—Times Wire & Cable
 Xeon—Edgerton Germeshausen Grier Inc
 Xerox—Haloid Co
 XRM—X-Ray Corp of America
 X-R-M—X-Ray Mfg Corp of America
 Xtra-Long—Permo Inc
 X-Var—Fidelity Chemical
 XXG—Hanson-Van Winkle-Munning Co
 XXSX—Hanson-Van Winkle-Munning Co
 XXX—Hanson-Van Winkle-Munning Co
 XXX-S—Hanson-Van Winkle-Munning Co
- Y**
- Y—Wybar Electronics
 Yagi-Helix—JFD Mfg Co
 Yardney Artic—Yardney Electric Corp
 Yardley-Silcad—Yardney Electric Corp
- Yardley Silvercel—Yardney Electric Corp
 Yates—Wedglock Corp
 Yerzley—Yerzley & Co
 Yo-Yo—Heligol Corp
 Y Series—Engineered Electronics Co
- Z**
- ZA—Hanson-Van Winkle-Munning Co
 Zachallory—Precision Electro-lations
 Z-Angle Meter—Acton Labs Inc
 Zeco—Zeus Eng'g Co
 Zee-Beam—Welco Mfg Co
 Zee-X—Welco Mfg Co
 Zerhr—Trio Mfg Co
 Zephyr-Mite—Trio Mfg Co
 Zephyr Royal—Trio Mfg Co
 Zero-Zero Mfg Co
 Zeromatic—Beckman
 Zero-Max—Revo Inc
 Zifar—Collins Radio Co
 Zinc Chromate—Westline Products
 Zincgrip—Armco Steel Corp
 Zinktron—Constad Labs
 Zin-O-Lyte—DuPont de Nemours & Co E I
 ZIP—JFD Mfg Co
 Zickord—Kaiser Aluminum & Chem Sis
 Zigohms—Muter Co
 Zipper tubing—Plummer Co
 Walter A
 Zip-Strap—Western Coil & Elec
 Zirconia—Thermal Refractories Corp
 Zirconet—Footle Mineral Co
 Zirconox—Thermal Refractories Corp
 Z-Match—Channel Master Corp
 Z-Match—Harvey-Wells Electronics Inc
 Zoomar JG—Zoomer Inc
 ZRD—Hoffman Electronic Corp
 ZRE—Hoffman Electronic Corp
 Z T Sealer—Plummer Co
 Walter A Co
 Zyglo—Magnaflex Corp
 Zytel—DuPont de Nemours E I

THE \$10 BILLION ELECTRONIC MARKET

. . . and why it takes a monthly to sell it

YOU CAN BE SURE OF THIS When you recommend ELECTRONIC INDUSTRIES . . . a monthly publication frequency is best adapted to the unique character of the electronic market. Here's why:

THE MARKET CHARACTERISTICS

To take away the abstraction from the electronic market, it is only necessary to remember you are selling to an industry based largely on light machinery and hand assembly operations—a "light industry."

It's quite different from the more common industrial markets where capital and engineering investments in "heavy" capital equipment are responsible for most of the value added by manufacture. In "heavy" industries, management decisions on capital spending are necessary in all stages of the product idea-to-final production cycle, and are the key to the salesman's success or failure.

In the "light" electronic technology, however, little capital or engineering is ordinarily invested in production equipment. The value added by manufacture depends principally on the number of engineering-hours invested in the design of the end-product.

This is why engineering decisions—not management capital spending decisions—are the key to the electronic market. Salesmen are finding that the constantly growing complexity of electronic systems is making this more true today than ever before.

One conclusion is inescapable. Electronic technology generates a market structure altogether different from those in aircraft, chemical process, metalworking, and other heavy industries.

The management buying influences which give advertising effectiveness to weekly media in these other engineering fields simply do not exist in the electronic market.

THE MONTHLY

The electronic engineers' need for closer and more exact communication with fellow specialists grows greater with each new technical advance. ELECTRONIC INDUSTRIES, backed by the full resources of the Chilton Company, is therefore expanding its efforts to give him the engineering leadership that only an aggressively edited monthly can supply. Advertisers will continue to have the strong monthly it takes to sell the electronic market.

THE EDITORIAL CONCEPT

Engineering treatment in depth—the first essential of technical communication—is made possible by EI's monthly publication schedule. The electronic engineers'

hunger for the ideas of other specialists can be met only if they reach him with the precision and completeness a monthly allows. This is proved by the many hundreds of requests for reprints of feature articles in every issue of ELECTRONIC INDUSTRIES.

THE READER RESPONSE

Reprint Requests—An average of 90 letters per day come in to EI on company letterheads requesting reprints of current articles. Better than 75% of these letters ask for reprints of two or more articles. One staff assistant devotes full time to nothing but processing reprint requests.

Inquiries—Current issues of ELECTRONIC INDUSTRIES are producing more than 20,000 inquiries for advertisers and manufacturers' literature per issue! This completely contradicts the tradition that magazines of engineering stature are weaker inquiry producers than those edited with inquiries as their primary purpose.

ADVERTISING RESEARCH SERVICES

Starch Readership Service—EI is the only electronic publication to offer Starch advertising readership studies. Six issues are scheduled for Starch Studies in 1958 and in 1959—January, March, April, July, October and December.

Copywriting Suggestions—A Series of bulletins entitled "Copywriting Suggestions for Advertisers to the Electronic Industries" will be sent on request. These bulletins have been widely commended by the advertising fraternity in the electronic field.

MARKET RESEARCH SERVICES

Most industrial market research is based on the SIC code. But all electronic components and accessories are lumped together under a single three-digit SIC number. In addition, many major classes of electronic equipment are grouped indiscriminately with non-electronic products of other industries by the SIC code.

To extricate electronic market research from this long-existing handicap, a complete private census of the electronic industry is being carried out by ELECTRONIC INDUSTRIES.

This private census data is being punched on IBM cards in accordance with a new Electronic Industries Classification, called the EIC code. The EIC code divides electronic products into 101 major classifications and gives to each an average of 20 subclassifications.

For information on the kinds of market data it will soon be possible to obtain through the EIC code and the publisher's IBM facilities, contact your ELECTRONIC INDUSTRIES' representative.

EI has more electronic O.E.M. circulation than any other publication

ELECTRONIC INDUSTRIES

Chilton Company Executive Offices: 56th & Chestnut Sts., Phila. 39, Pa.

New York 17

Menard Dowell
Gerald Palissier
100 E. 42nd St.
OXford 7-3400

Chicago 1

George Felt
380 N. Michigan Ave.
RAndolph 6-2166

San Francisco 3

Don May
1355 Market St.
UNderhill 1-9737

Philadelphia 39

Joseph Drucker
56th & Chestnut Sts.
SHerwood 8-2000

Tulsa

Hal Mott
Petroleum Bldg.
LUther 4-1769

Cleveland 15

Shelby A. McMillion
930 Kieth Bldg.
SUperior 1-2860

Los Angeles 57

B Wesley Olson
198 S. Alvarado St.
DUnkirk 7-4337

Dallas 1

John Sangston
909 Mercantile Securities Bldg.
Riverside 7-1732

For specific market information contact your EI Regional Sales Manager

Alphabetical Listing of Manufacturers

WITH THE EXCLUSIVE

LOCALIZER INDEX

A listing of the names and addresses of manufacturers in the electronic and allied industries. In the LOCALIZER INDEX, many manufacturers have listed home office telephone numbers, executive personnel, brand names, products, branch and regional offices as well as local reps. The LOCALIZER

INDEX provides you with the shortest means of contacting a manufacturer. Symbols show type of representation: **BO** signifies branch office; **D** distributor; **DS** distributor sales; **GV** government sales; **IDS** industrial & distributor sales; **R** rep; **SE** sales engineer.

- AA Metal Products Inc 154 Elliot St Brattleboro VT AL 4-4333
 Abalon Precision Mfg Corp 540 Casanova St New York 59 N Y LU 9-5682
 Abbeon Supply Co 179-15 Jamaica Ave Jamaica 32 N Y AX 7-5600
 Abrams Instrument Corp 606 E Shawassee St Lansing 1 Mich IV 4-9441
 Accurate Electronics Corp 169 S Abbe Rd W Elyria Ohio 67-925
 Accurate Eng'g Co 2005 Blue Island Ave Chicago 8 III MO 6-5600
 Accurate Insulated Wire Corp 25 Fox St New Haven 1 Conn ST 7-2194
 Accurate Mfg Co 44 Hegworth Pl Garfield N J GR 3-2900
 Accurate Paper Tube Co 805 N Peoria St Chicago 22 III CH 3-2166
 Accurate Sheet Metal & Mfg Works 2336 Milwaukee Ave Chicago 47 III EV 4-3666
 Accurate Spring Mfg Co 3811 W Lake St Chicago 24 III VA 6-5900
 Ace Coil & Electronics Co 916 Lincoln Hwy Metuchen N J LI B-1580
 Ace Electric Mfg Co 1458 Shakespeare Ave New York 52 N Y
 Ace Electronics Associates 99 Dover St Somerville 44 Mass SM 6-5130
 Ace Eng'g & Machine Co Inc Tomlinson Rd Huntingdon Valley Penna CH 1900
 Ace Plastic Co 91-30 VanWyck Erway Jamaica 35 N Y JA 3-5500
 Ace Spring Mfg Co 78 W Houston St New York 12 N Y
 AC Electronics Div GMC 1925 E Kenilworth Pl Milwaukee 1 Wisc BR 3-1120
 Ace Instrument Co Inc 172 Pacific St Brooklyn N Y UL 5-1484
 ACF Industries Nuclear Prods-Erco Div 48 Lafayette St Riverdale Md WA 7-4444
 ACF Electronics Co Div ACF Industries 800 N Pitt St Alexandria Va KI B-4400
 Acheson Colloids Co 1635 Washington Ave Port Huron Mich YU 4-4171
 Ackerman Engravers 458 Broadway New York 13 N Y RA 7-1479
 Ackerman-Gould Co 92 Bleeker St New York 12 N Y AL 4-2538
 Acme Battery Corp 200 Henry St Stamford Conn DA 4-4175
 Acme Electric Corp Water St Cuba NY CU4
 Acme Electric Heating Co 1217 Washington St Boston 18 Mass MA 6-1583
 Acme Electronic Div NEA Service 1200 W 3 St Cleveland 13 Ohio MA 1-7300
 Acme Industrial Co 200-222 N Laflin St Chicago 7 III MO 6-4122
 Acme Mfg & Gasket Co 738 N 41 St Philadelphia 4 Pa EV 6-8622
 Acme Scientific Co 1450 W Randolph St Chicago 7 III MO 6-1834
 Acme Wire Co 1255 Dixwell Ave New Haven 14 Conn LO 2-2171
 Acme Wire Machine Co 232 E 3 St New York 9 N Y OR 7-8290
 Acoustica Associates 26 Windsor Ave Mineola N Y PL 7-7900
 Acra Div Rohrer-Shaw-Fullton Controls Co Box 439 Columbus 16 Ohio CL 3-8511
 Acromag Inc 22519 Telegraph Rd Detroit 41 Mich EL 6-7211
 Aeromark Co 443 Morrell St Elizabeth 4 N J EL 2-6500
 Arro Products Co 369 Shurs Lane Philadelphia 38 Pa IV 3-5969
 Arco Tool & Die Works 4554 Broadway Chicago 40 III LO 1-1807
 Actioncraft Products 2 Yennicoch Ave Port Washington N Y PD 7-4500
 Acton Laboratories 533 Main St Acton Mass CO 3-7756
 A C Transformer Corp 89 Madison St Newark 5 N J MD 2-7574
 Actuator Prods Corp Main St Box 172 W Concord Mass TW 7-2960
 Acus Pictures Corp 165 W 46 St New York 36 N Y PL 7-2265
 Adaleit Mfg Co 14300 Lorain Ave Cleveland 11 Ohio CL 1-3412
 Adams Lighting Inc 10 1 St Pelham N Y PE 8-4403
 Adams & Westlake Co 1025 N Michigan Elkhart Ind 2-0550
 Adcon Corp 1117 Commonwealth Ave Boston 15 Mass ST 2-1117
 Addressograph-Multigraph Corp 1200 Babbitt Rd Cleveland 17 Ohio RE 1-8000
 A & D Electronics Inc Mt Pascal Rd Hackettstown N J GA 5-5716
 Adel Precision Products Div General Metals Corp 1444 Washington Ave Huntington 4 W Va
 Adhesive Products Corp 1660 Boone Ave New York 60 N Y
 Adler Electronics Inc 1 LeFevre Lane New Rochelle N Y NE 6-1620
 Admiral Corp 3800 W Cortland St Chicago 47 III SP 2-0100
 Admittance Namco Corp Marine St Farmingdale L I N Y CH 9-8080
 Advanced Electronics Mfg Corp 2025 Pontius Ave Los Angeles 25 Calif
 Advance Electronics Co 8510 North End Ave Oak Park 37 Mich LI 6-0248
 Advance Electronics Lab Inc 249 Terhune Ave Passaic N J GR 2-5622
 Advance Industries Inc 640 Memorial Dr Cambridge 39 Mass UN 4-6800
 Advance Instrument Corp 1709 F St Belmar N J MU 1-3800
 Advanced Electronics Inc 94 Silas Deane Hwy Rocky Hill 9 Conn JA 9-6882
 Advanced Instruments 45 Kenneth St Newton Highlands 61 Mass DE 2-8200
 Advanced Products Co 59 Broadway North Haven Conn CE 9-1664
 Advanced Vacuum Products Inc 430 Fairfield Ave Stamford Conn DAVIS 4-2148
 Advance Transformer Co 2950 N Weston Ave Chicago 18 III CO 7-8100
 Ad-Vu Electronics Lab Inc 249 Terhune Ave Passaic N J GR 2-5622
 Aemco Inc 10 State St Manbatu Minn 5153
 Aerocoil Inc 24 Cliff St Jersey City 6 N J OL 3-7446
 Aerial Tower Mfg Co Box 9142 Oklahoma City Okla ME 7-3880
 Aero Electronics Corp 1657 W 134 St Gardena Calif FA 1-2196
 Aero Electronics Co 1512 N Wells St Chicago 10 III WH 3-0401
 Aerodex Labs 34-06 Skillman Ave Long Island City 1 N Y ST 4-7000
 Aero Instrument Co 11423 Vanowen St N Hollywood Calif ST 7-5433
 Aerojet-General Corp 6352 N Irwindale Ave Azusa Calif CU 3-6111
 Aerolite Electronics Corp 507 26 St Union City N J UN 3-2955
 Aerolux Light Corp 653 11 Ave New York 36 N Y CL 6-5324
 Aeromotive Eng'g Products Ltd 5257 Queen Mary Rd Montreal Que Canada EL 9602
 Aeronautical Comm Equip Co 3090 SW 39 Ave Miami 33 Fla
 Aeronautical Electric Co 5656 Northwest Hwy Chicago 30 III SP 4-5200
 Aeronautical Electronics Inc P O Box 6527 Raleigh N C TE 4-6209
 Aeronca Mfg Corp Hilltop & Frederick Rds Baltimore 28 Md RI 7-0200
 Aeronca Mfg Corp Middletown Ohio
 Aeronutronic Systems Inc 1234 Airway Glendale Los Angeles Calif CH 5-6651
 Aerophysic Development Corp Sub Curtis-Wright Corp P O Box 689 Santa Barbara Calif WO 2-9135
 Aero Research Instrument Co 315 N Aberdeen St Chicago 7 III TA 9-6400
 Aerotec Corp Pemberwick Rd Greenwich Conn JE 1-8400
 Aerotest Laboratories 129-11 18 Ave College Point 56 N Y IN 1-7272
 Aerotronic Associates Box 419 Concord N H CO 190-3
 Aerotron Supply Co 8504 S Normandie Ave Los Angeles 44 Calif PL 3-3453
 Aerorox Corp Pacific Coast Div 2724 S Peck Rd Monrovia Calif RY 1-5621
 Aerorox Corp 740 Belleville Ave New Bedford Mass WY 4-9661
 Aetna Felt Co 204 Centre St New York 13 N Y CA 6-6676
 Aetna Supply Inc 15 N Hickory St Arlington Hts III CL 5-5000
 Affiliated Photographic Co 21 W 45 St New York 36 N Y JU 2-0522-3
 Affton Industries 405 St Louis Ave Valley Park Mo VA 5-2132
 AIGA Div Elastic Stop Nut Corp 1027 Newark Ave Elizabeth 3 N J EL 2-2900
 Ainslie Corp 312 Quincy Ave Quincy 69 Mass GR 2-8855
 Airborne Accessories Corp 1414 Chestnut Ave Hillside 5 N J WA 6-1700
 Airborne Electronics Co 6813 Treost Ave N Hollywood Calif PO 5-1351
 Airborne Instruments Lab Inc 160 Old Country Rd Mineola N Y PJ 2-0600
 Aircom Inc 354 Main St Winthrop Mass DC 3-3096
 Aircom Inc 139 E 1st St Roselle N J CH 5-2990
 Aircraft Armaments Inc Cherry Tree Rd Box 126 Cockeysville Md VA 5-8400
 Air Controls Inc 2310 Superior Ave Cleveland 14 Ohio CH 3-4049
 Aircraft & Electronic Specialties 22 S Green St Brownsburg Ind UL 2-2218
 Aircraft Radio Corp Boonton N J DE 4-1800
 Airdesign Corp 241 Fairfield Ave Upper Darby Pa GR 3-8000
 Airdraulics Eng'g Inc 250 Park Ave New York 17 N Y
 Aireco Inc 2323 2 Ave Schenectady 3 N Y EX 3-3673
 Air & Refrigeration Corp 439 Madison Ave New York 22 N Y PL 1-0660
 AirResearch Mfg Co Div Garrett Corp 9851 Sepulveda Blvd Los Angeles 45 Calif OR 2-0131
 Airflo Instrument Co 53 Addison Rd Glastonbury Conn ME 3-9455
 Airflyte Electronics Co 535 Avenue A Bayonne N J NE 6-2230
 Air-Marine Motors Inc 369 Bayview Ave Amityville N Y AB 4-3700
 Armatic Valve Inc 7314 Associate Ave Cleveland 9 Ohio WD 1-5320
 Air-Maze Corp 25000 Miles Rd Cleveland 28 Ohio HD 2-8000
 Airmax Ltd High Wycombe Buckinghamshire England
 Airpax Products Co Seminole Div City of Plantation Ft Lauderdale Fla LU 3-6160
 Airpax Products Co Middle River Baltimore 2 Md MU 6-9100
 Air Reduction Sales Co Div Air Reduction Co 150 E 42 St New York 17 N Y MU 2-6700
 Air Transport Mfg Co 1114 N Sycamore Ave Los Angeles 98 Calif HO 7-5175
 Airtronics Inc 5522 Darsey Lane Bethesda Md OL 4-1676
 Airtron Inc 1101 W Elizabeth Ave Linden N J HU 6-1000
 Airtronics Development Corp 4902 Church Ave Brooklyn 3 N Y DI 5-3435
 Ajax Condenser Co 932 W Wrightwood Ave Chicago 14 III GR 7-0660
 A-K Mfg Co 115 S Northwest Hwy Barrington III 58
 Akron Metallic Gasket Co 150 N Union St Akron Ohio
 Akron Rubber Co 53 Warren St New York 7 N Y DI 9-3636
 Aladdin Electronics Div Aladdin Industries Murfreesboro Rd Nashville 10 Tenn
 Alcar Instruments Inc 17 Industrial Ave Little Ferry N J HU 9-3040
 Alco Electronics Mfg Co 3 Wolcott Ave Lawrence Mass
 Alconox Inc 853 Broadway New York 3 N Y GR 3-1300
 Alden Electronic & Impulse Recording Equip Co P O Box 125 Westboro Mass 467
 Alden Products Co 123A N Main St Brockton Mass 160
 Alctra Div Consolidated Electrodynamics Corp 325 N Altadena Dr Pasadena Calif SY 6-6161
 Alfax Paper & Eng'g Co Washington St Westboro Mass 467

ALPHABETICAL LISTING of MANUFACTURERS with LOCALIZER INDEX

Alford Mfg Co 299 Atlantic Ave Boston 10 Mass
 MA 6-2150
 Alfred Electronics 897 Commercial St Palo Alto Calif
 DA 4-4368
 All American Eng'g Co DuPont Airport Box USS 2668
 Wilmington 5 Dela WY 4-0951
 All American Tool & Mfg Co 8027 Lawndale Ave
 Skokie Ill DR 3-7084
 Allard Instrument Corp 146 E 2 St Mineola L I N Y
 PI 6-5895
 All Channel Products Corp 47-39 49 St Woodside 77
 N Y EX 2-1336
 Allegany Instrument Co 1091 Wills Mountain Cumber-
 land Md PA 4-1200
 Allegheny Ladlum Steel Corp Oliver Bldg Pittsburgh
 22 Pa CO 1-5300
 Allen-Bradley Co 136 W Greenfield Ave Milwaukee 4
 Wisc DR 1-2000
 Allen Electronics Corp 92 Branch St Pontiac Mich
 FE 2-6662
 Allen Mfg Co 133 Sheldon St Hartford 2 Conn JA
 2-6131
 Allen Organ Co Locust St Macungie Pa WO 5-9831
 Alliance Mfg Co Lake Park Blvd Alliance Ohio 1-5361
 Allied Alloys Co 141 River Rd Nutley 10 N J NU
 2-3910
 Allied Control Co 2 East End Ave New York 21 N Y
 BU 8-7403
 Allied Electronic Equip Co 868 San Mateo Ave San
 Bruno Calif JU 8-4042
 Allied Eng'g & Production Corp 2421 Blanding Ave
 Alameda Calif LA 3-6556
 Allied Engraving & Stamping Co 17 Elm St Buffalo 3
 N Y CL-3725
 Allied Fabricating Corp 1538 N Clyburn Ave Chi-
 cago 10 Ill MO 4-0876
 Allied Industries Inc 2500 Woodland Ave Louisville
 10 Ky SP 6-4649
 Allied Radio Corp 100 N Western Ave Chicago 89
 Ill WA 1-6800
 Allied Recording Products Co 32-32 Greenpoint Ave
 Long Island City 1 N Y ST 4-2318
 Allied Resinous Products Inc Whitney Rd & Clark
 St Conneaut Ohio 91-001
 Allies' Products Corp P O Box 188 Kendall Station
 Miami Fla PE 7-4431
 Allis-Chalmers Mfg Co Milwaukee 1 Wisc SP 4-3600
 Allis Co Louis 427 E Stewart St Milwaukee 1 Wisc
 HU 1-6000
 Allison Labs Inc 14185 Skyline Dr La Puente Calif
 OX 4-4056
 Allmetal Screw Products Co 821 Stewart Ave Garden
 City N Y PI 1-1200
 Alloy Metallsmiths Inc 89 Commerce Rd Cedar Groove
 N J CE 9-2424
 All Star Products Inc Squire Ave Dehance Ohio
 2-1065
 All-State Welding Alloys Co 249 Ferris Ave White
 Plains N Y WH 8-4646
 All-Tronics Inc 45 Bond St Westbury N Y ED 3-3090
 Alloy Inc Welch Stanettes Falls N Y 882
 Alpac Corp 13040 S Cerise Hawthorne Calif OR
 8-5774
 Alonge Products Inc 163 W 23 St New York 11 N Y
 WA 4-2815
 Alpar Mfg Corp 2910 Spring St Redwood City Calif
 EM 8-4701
 Alphaduct Wire & Cable Co 25 Van Dyke Ave New
 Brunswick N J CH 9-8090
 Alpha Erection Corp 210 E Main St W Branch
 Iowa 220
 Alpha Molybdate Corp 65 Harvard Ave Stamford Conn
 FI 8-3724
 Alpha Wire Corp 200 Varick St New York 14 N Y
 AL 5-5400
 Alprodo Inc 540 Weakley Ave Memphis Tenn JA
 7-7534
 Altco Lansing Corp 1515 S Manchester Ave Anaheim
 Calif PR 4-2900
 Alto Fonic Music Systems Inc 935 Commerce St
 Palo Alto Calif
 Alto Scientific Co 855 Commercial St Palo Alto Calif
 DA 4-4733
 Aluminum Co of America 1501 Alcoa Bldg Pitts-
 burgh 19 Pa AT 1-4545
 Ams Nut & Bolt Co 1601 Grande Vista Ave Los
 Angeles 23 Calif AM 2-5131
 Atwac Corp 13040 S Cerise Hawthorne Calif OR 8-
 7108
 Ambroid Co Box 30 Weymouth 88 Mass ED 5-6658
 Amco Eng'g Co 7333 W Ainslie St Chicago 31 Ill
 UN 7-8500
 Ameco 2945 W Osborn Rd Phoenix Ariz. AL 4-5511
 Ameco Inc 2040 Colo Ave Santa Monica Calif
 Amec Inc 2421 N Ramsey Springfield Mo 5-1367
 Amerac Inc Dunham Rd Beverly Mass WA 2-8610
 Amerac Inc 115 Topsheld Rd Wenham Mass Ham 730
 Ameray Corp Route 45 Kenil B J FO 6-4100
 Amercoat Corp 4809 Firestone Blvd South Gate Calif
 LO 4-2581
 American Air Filter Co 215 Central Ave Louisville 8
 Ky WE 7-3611
 American Aluminum Co 230 Sheffield St Mountain-
 side Union N J AD 3-3500
 American Brass Co 414 Meadow St Waterbury 88
 Conn PL 4-1121
 American Chemical Paint Co Ambler Pa MI 6-1700
 American Coil Inc 21-28 45 Rd Long Island City 1
 N Y RA 9-0744
 American Communications Corp 280 Broadway New
 York 17 N Y RE 2-0319
 American Condenser Corp 4410 N Ravenswood Ave
 Chicago 40 Ill LO 1-1386

American Cystoscope Makers Inc 8 Pelham Pky Pel-
 ham Manor N Y PE 8-4800
 American Decalcomania Co 4334 5 Ave Chicago 24
 Ill KE 3-8144
 American District Telegraph Co 155 6 Ave New
 York 13 N Y AL 5-0200
 American Electric Cable Co 181 Appleton St Holy-
 oke Mass JE 9-9893
 American Electric Fusion Corp 2600 Diversey Ave
 Chicago 47 Ill BR 8-1640
 American Electronics Laboratories 121 N 7th St
 Philadelphia 6 Pa WA 5-8780
 American Electronics Co 1203 Bryant Ave New York
 59 N Y DA 9-4815
 American Electronics Inc Instrument Div 9503 W
 Jefferson Blvd Culver City Calif TE 0-5581
 American Electronics Inc 655 W Washington Blvd
 Los Angeles 15 Calif KI 9-7671
 American Elite Inc 7 Park Ave New York 16 N Y
 MU 3-8490
 American Gas Furnace Co 140 Spring St Elizabeth 1
 N J EL 2-2120
 American Geloso Electronics Inc 312 7th Ave New
 York 1 N Y LA 4-9936
 American Gyro Corp 3030 Nebraska Ave Santa Monica
 Calif
 American Hinge Corp 206 Wallabout St Brooklyn 6
 N Y UL 5-0690
 American Hoist & Derrick Co 63 S Robert St St Paul
 1 Minn CA 2-0541
 American Instrument Co 8030 Georgia Ave Silver
 Spring Md JU 9-1727
 American Insulator Corp New Freedom Pa GL 4211
 American Laubscher Corp 250 W 57th St New York
 19 N Y
 American Lara Corp Chattanooga 5 Tenn AM 5-3411
 American Leonic Mfg Co 3001 Walnut St Philadelphia
 4 Pa BA 2-4452
 American Machine & Foundry Co Gen Eng Labs 11
 Bruce Pl Greenwich Conn NO 1-7400
 American Machine & Foundry Co Electronics Div 1085
 Commonwealth Ave Boston 15 Mass AL 4-4234
 American Machine & Foundry Co Defense Products
 Group 1101 N Royal St Alexandria Va KI 9-9110
 American Measurement & Control Inc 240 Calvert St
 Waltham 54 Mass
 American Metal Climax Inc 61 Broadway New York
 5 N Y BD 9-1800
 American Melvin Corp 40 Haddon Ave Camden 3
 N J WD 4-2940
 American Mica Insulation Co 235 Parker Ave Manas-
 quan N J CA 3-3100
 American Mira Radin Corp 235 Parker Ave Manas-
 quan N J CA 3-3100
 American Microphone Dept Elgin National Watch 368
 Bluff City Blvd Elgin Ill SH 2-5700
 American Mitroware Corp 11754 Vose St N Holly-
 wood Calif PO 5-9041
 American Moistening Co Cleveland N C CL 4051
 American Molded Products Co 2727 W Chicago Ave
 Chicago 22 Ill AM 6-3235
 American Nut & Bolt Fastener Co 2029 Doerr St
 Pittsburgh 33 Pa PD 6-7900
 American Optical Co Instrument Div Box A Buffalo 15
 N Y FI-4000
 American Dress Service Corp 600 Essex St Harrison
 N J HU 3-0100
 American Perfit Crystal Corp 653 11 Ave New York
 36 N Y CI 6-8292
 American Photocopy Equip Co 1920 W Peterson Ave
 Chicago 26 Ill RO 1-1600
 American Platinum Works 231 N J R R Ave Newark
 5 N J MA 2-8935
 American Printed Circuits Co 101 Forrest St
 Metuchen N J LI 8-5777
 American Products Mfg Co 8127 Oleander St New
 Orleans 18 La GA-1501
 American Radar Components Inc Rt 10 Whippany
 N J TU 7-1840
 American Re-Title Corp 95 Lafayette St New York
 13 N Y WD 6-3350
 American Research Corp Route 6 Farmington Conn
 OR 7-2693
 American Research & Mfg Corp 920 Halseine Ave
 Norwalk Md HA 7-7116
 American Research Products Box 185 Sorrento Fla
 EV 2-6681
 American Scientific Co 1295 Grand Concourse New
 York 52 N Y
 American Scientific Development 336 S Main St Fort
 Atkinson Wisc JO 3-4855
 American Screw Co Williamstir Conn HA 3-6331
 American Sealants Co 103 Woodbine St Hartford 6
 Conn JA 2-1188
 American Searchlight Corp 38 W 53 St New York
 N Y JU 2-8880
 American Silver Co 3607 Prince St Flushing 54 N Y
 FL 3-8012
 American Smelting & Refining Co Federated Metals
 Div 2230 Indianapolis Blvd Whiting Ind ES 5-5000
 American Solder & Flux Co 19 & Willard Sts Phila-
 delphia 40 Pa BA 6-1800
 American Sound Products Inc 404 S Wells St Chicago
 7 Ill WA 2-4050
 American Speedlight Corp 63-01 Metropolitan Ave
 Middle Village 79 N Y EV 1-2000
 American-Standard Atomic Energy Div 369 Whisman
 Rd Mountview Calif YO 8-4461
 American Super-Temperatures Wires Inc West Canal
 St Winooski Vt BU 2-9636
 American Television & Radio Co 300 E 4 St St
 Paul 1 Minn CA 2-3791
 American Thermo Electric Co 7269 Santa Monica
 Blvd Los Angeles 46 Calif HO 4-1632

Amphenol Electronics Corp., 1830 So
 54th Ave., Chicago 50, Ill.
 Phone: Bishop 2-1000
 Cable Address: AMPHENOL
 President: Arthur J. Schmitt
 Vice President-Sales: William H.
 Roush
 Vice President-Engineering: Rodolfo
 M. Soria
 Vice President and Controller: John
 L. Woods
 VP and Director of Manufacturing:
 J. F. Leach
 General Manager Cable and Wire
 Division: James E. Sullivan
 Advertising Manager: K. F. Holdt
 Chief Engineer: Curt W. Kinsier-
 mann
 Director of Purchases: John H.
 Leach
 Distributor Sales Manager: Robert
 E. Svoboda
 General Sales Manager: Richard E.
 Hall
 Field Office Sales Manager: Roy J.
 Gallagher
 Chicago District Sales Manager:
 W. B. Watson
 Research and Development Manager:
 Charles F. Valach
 General Products Manager: C. E.
 Miki
 Foreign Operations Manager: K. C.
 Gaellen
 Export Sales Manager: Miles V.
 Maske
 Secretary: F. G. Pace
 Treasurer: Albert Dushek
ATLANTA: Hollingsworth & Still, 608
 Whitehead Bldg., Murray 4-5878
BOSTON, MASS: Richard Parinton,
 Inc., 11 Muzzey St. (Lexington),
 Volunteer 2-8300
CAMDEN: Boenecke Associates, 638
 Penn Street, Woodlawn 4-8650
CHICAGO 50, ILL: Amphenol Elec-
 tronics Corp., Walter B. Watson,
 1830 S. 54th Ave., Bishop 2-1000
CLEVELAND 16, OHIO: Amphenol
 Electronics Corp., H. P. Iron-
 sema, 20800 Center Ridge Road,
 Edison 1-9100
DALLAS, TEXAS: J. F. McKinney
 Sales Co., 1330 Industrial Blvd.,
 Riverside 1-1368
DAYTON 2, OHIO: Amphenol Elec-
 tronics Corp., John E. Wilkinson,
 410 West First St., Baldwin 4-3212
DENVER, COLO.: Ronald G. Bowen
 Co., 721 S. Broadway, Race 2-4641
DETROIT: R. C. Nordstrom & Co.,
 580 N. Woodward Ave. (Hirmingham),
 Jordan 4-4228
GREENSBORO, N. C.: Tonkin-Schiffner
 Co., 1013 Huffman Street, Greens-
 boro 3-6578
INDIANAPOLIS 6, IND.: Leslie M.
 DeVoe Co., 4010 Washington Blvd.,
 Atwater 3-1395
KANSAS CITY 6, MO: H. A. Ross &
 Co., 2601 Cherry Street, Baltimore
 1-8868
LOS ANGELES: Amphenol Electron-
 ics Corp., James H. Schaefer (In-
 dustrial Sales Office) 6356 W. Pico
 Blvd., Webster 2-2761
LOS ANGELES 46, CAL.: Marshank
 Sales Co. (Distributor Sales Of-
 fice), 7422 Melrose Ave., Webster
 8-2591
MINNEAPOLIS 16, MINN.: Fred B.
 Hill Co., 6110 Excelsior Blvd.,
 West 9-6727
NEW YORK, N. Y.: Amphenol Elec-
 tronics Corp., Herbert Muz, In-
 dustrial Sales Office, 310 North-
 ern Boulevard (Great Neck, L. I.),
 Hunter 2-4700
NEW YORK, N. Y.: D. R. Bittan Co.
 (Distributor Sales Office), 104 S.
 Central Ave. (Valley Stream,
 L. I.), Locust 1-2444
PITTSBURGH, PA.: Tanner and Co-
 ver (Distributor Sales Office), 300
 Mt. Lebanon Blvd., Locust 1-5067
PORTLAND, ORE.: Don H. Burcham
 Co. (Distributor Sales Office), 510
 N. W. 19th Ave., Capital 7-3830
ST. LOUIS, MO.: John M. McCune
 Co., 1310 St. Bernardette (Florissant),
 Temple 7-3189
SAN FRANCISCO, CALIF.: G. B. El-
 lis Sales Co., 3241 El Camino Real
 (Atherton), Emerson 8-3819
SEATTLE, WASH.: Amphenol Elec-
 tronics Corp., Raymond H. Over
 (Industrial Sales Office), Smith
 Towers Building, Main 4-1446
SYRACUSE, N. Y.: Amphenol Elec-
 tronics Corp., George L. Glatz,
 Empire Bldg., Granite 1-1311

(Continued on next page)

ALPHABETICAL LISTING of MANUFACTURERS with LOCALIZER INDEX

WASHINGTON, D. C.: Amphenol Electronics Corp., Carl E. Palmer, 625 Investment Bldg., Executive 3-6223

CANADA

CALGARY, ALTA.: Radiovision Sales Ltd., 325 Tenth Ave. W., 2-3294

MONTREAL, QUE.: Amphenol Canada Ltd., 5990 Monkland Ave., Hu 8-0906

OTTAWA, ONT.: Amphenol Canada Ltd., 300 Campbell Ave., Lennox Central 6-2113

TORONTO, ONT.: Amphenol Canada Ltd., 300 Campbell Ave., Lennox 7-1227

Andrew Corporation, 363 East 75th Street

Chicago, Illinois, TRiangle 4-4400

Chairman of Board: Dr. V. J. Andrew

Director of Marketing: Robert F. Lamons

Director of Engineering: John S. Brown

Marketing Manager: Robert C. Bickel

Sales Engineering Manager: Henry F. Miller

Advertising Manager: Ernest Heitach

RIDGEWOOD, N. J.: P. O. Box 416, Phone Gilbert 5-2500, Harold J. Detlefs, John M. Lenehan, Sales Engineers

WESTWOOD, MASS.: P. O. Box 296, Phone DAVIS 6-6500, C. Robert Lane, Eastern Regional Manager

CLAREMONT, CALIF.: Andrew California Corporation, 941 E. Maryland Ave., Phone National 6-3505, Jeff D. Montgomery, Jr., Manager, J. Rilee Lindquist, Sales Engr.

CANADA: Mfg. & Sales: Andrew Antenna Corp. Ltd., 606 Beech St., Whitby, Ont., Phone MOhawk 8-3348, John W. McLeod, Genl. Mgr., R. P. Matthews, Sales Manager

Arco Transformer & Electric Corp 1602 S Hanna St Ft Wayne 5 Ind H-4113
 Ardente Acoustic Labs Ltd Minerva Rd London N W 10 England EL 3923
 Armac Associates 50 S San Gabriel Blvd Pasadena Calif SY 5-5938
 Arenberg Ultrasonic Laboratory 94 Green St Jamaica Plain 30 Mass JA 2-8640
 Arens Controls Inc 2017 Greenleaf St Evanston Ill DA 8-4700
 A R F Products Inc P O Box 57 Ranton N M 995
 Argonne Electronics Mfg Corp 165-11 South Rd Jamaica 33 N Y OL 7-7528
 Arpos Products Co Main St Genoa Ill 4-5118
 Aries Labs Inc 45-33 Davis St Long Island City 1 N Y RA 9-9001
 Ark Eng'g Co 431 W Tabor Rd Philadelphia 20 Pa LI 8-4100
 Arkay Co 605 1 Ave S W Rochester Minn 4821
 Ark-Les Switch Corp 51 Water St Watertown 72 Mass WA 4-2330
 Arlin Products Inc 13541 Auburn Ave Detroit 23 Mich VE 8-4473
 Arma Div American Bosch Arma Corp Garden City N Y PI 2-2000
 Armo Steel Corp 703 Curtis St Middletown Ohio CA 2-2711
 Arnel Electronics Inc 840 S Ave Brooklyn 32 N Y ST 8-0422
 Armstrong Bros Tool Co 5200 W Armstrong Ave Chicago Ill RO 3-3333
 Armstrong Corp Co W Liberty St Lancaster Pa EX 7-5151
 Arnold Engineering Co Marengo Ill

The Arnold Engineering Company
 Main Office and Plant: Marengo, Ill.
 Chicago Lines: Andover 3-6300

President: Robert M. Arnold
 Vice President, Chief Engineer: C. S. Brand

Treasurer and Credit Manager: B. M. Emerson

Sales Manager: B. Falk

Assistant to President: H. H. Friend

BOSTON, MASS.: The Arnold Engineering Company, 49 Waltham St., Lexington, Mass., Volunteer 2-2804 (R. P. Nichols, J. T. Denning, Joseph Phelan)

BUFFALO, N. Y.: Brace-Mueller-Huntley, Inc., 1807 Elmwood Ave., Victoria 8700 (Dr. J. E. Wilson)

CHICAGO, ILL.: The Arnold Engineering Company, Andover 3-6300 (R. E. Arnold, R. Bernstein, C. C. Neighbors)

CLEVELAND, OHIO: Ernie Kohler Associates, 8905 Lake Ave., Olympic 4-1242 (James Borst)

DALLAS, TEXAS: Southwest Electronic Industries, 4515 Prentice St., Emerson 8-8306 (J. W. Stanfield, J. Roger, Hal Schneider)

DAYTON, OHIO: Ernie Kohler Associates, 2600 Far Hills Ave., Xenia 9-2813 (Ernie Kohler, Jr.)

FORT MYERS, FLA.: Arthur H. Lynch & Assoc., Inc., 35 West North Shore Ave., Wyandotte 3-2161 (Arthur H. Lynch, Fred R. Sias)

JACKSON, MICH.: The Arnold Engineering Company, 414 Sulgrave, State 4-5863 (M. J. Parrhall)

KANSAS CITY, MO.: The Arnold Engineering Company, 5546 Troost Ave., Hilland 4-7839 (A. E. Dawson)

LOS ANGELES, CALIF.: The Arnold Engineering Company, 3460 Wilshire Blvd., DUNKIRK 8-0361 (T. S. Tetherow, R. C. Tetherow, James Martin, A. S. Hjerpet)

MILWAUKEE, WIS.: Frank W. Ladky Associates, 4604 North Wilson Drive, WOODRUFF 2-2940 (Jack Ladky, J. Feld, J. Somerville)

MINNEAPOLIS, MINN.: Frank B. Elm, 6524 W. Walker Street, WEAT 9-5161

NEW YORK, N. Y.: The Arnold Engineering Company, 350 Fifth Ave., OXFORD 5-1685 (A. C. Brown, J. Kavanagh, Burton Kramer)

(Continued on next page)

Andromeda Inc 3742 Howard Ave Kensington Md LD 5-3775

ANEX Corp 150 Causeway St Boston 14 Mass RI 2-3400

Anetsberger Bros Northbrook Ill EA 2-0770

Anko Mfg Co 5042 W State St Milwaukee 8 Wis GR 6-6623

Annis Co 8 1101 N Delaware St Indianapolis 2 Ind ME 5-2838

Anso Div Genl Aniline & Film Corp Charles St Binghamton N Y 2-4221

Ansley Mfg Co Arthur New Hope Pa SU 2711

Ansonia Wire & Cable Co 111 Martin St Ashton R I PA 6-6300

Antara Chemicals Div General Aniline & Film Corp 435 Hudson St New York 14 N Y WA 4-0600

Antenna & Radome Research Assoc 1 Bond St Westbury N Y ED 4-8770

Antenna Specialists Co 12435 Euclid Ave Cleveland 6 Ohio SW 1-7878

Antennavision Inc 2949 W Osborn Phoenix Ariz AL 4-5511

Anti-Corrosive Metal Products Co Castleton-On-Hudson N Y CA-2831

Anflab Inc 6330 Proprietors Rd Worthington Ohio TU 5-5396

Anton Electronic Labs 1226 Flushing Ave Brooklyn 6 N Y EV 6-5215

Anton Machine Works 1226 Flushing Ave Brooklyn 37 N Y

Apex Coil & Transformer Corp 1919 S Fairfield Ave Chicago 8 Ill LA 3-4286

Apex Coated Fabrics Co 12 E 22 St New York 10 N Y SP 7-3140

Apex Electronics Inc 100 8th St Passaic N J PR 3-1220

Apex Wire & Cable Corp 237 37 St Brooklyn 32 N Y SO 8-4004

Apparatus Development Co 115 Main St Wethersfield 9 Conn JA 9-5186

Apple Frequency Measuring Service H L 409 Union Ave Burlington N C CA 6-0964

Applegate & Co C J 1840 24 St Boulder Colo HI 2-8750

Applied Electronics Co 213 E Grand Ave S San Francisco Calif PL 6-4100

Applied Magnetics Corp Santa Barbara A/P Bldg 304 Goleta Calif WO 7-2016

Applied Physics Corp 362 W Colorado St Pasadena 1 Calif SY 6-0197

Applied Radiation Corp 2404 N Main St Walnut Creek Calif YE 5-2250

Applied Research Inc 76 S Bayles Ave Port Washington N Y PO 7-8707

Applied Research Labs 3717 Park Pl Glendale 8 Calif CH 5-5524

Applied Science Corp of Princeton P O Box 44 Princeton N J PL 3-4141

Apollo Metal Works 6651 S Oak Park Ave Chicago 38 Ill PD 7-6161

APW Co 72 W Main St Rockaway N J RO 9-0643

Arcan Eastern Ltd P O Box 158 Sta C Hamilton Ont Canada LI 5-1133

Arch Gear Works 97 Holmes St N Quincy Mass PR 3-8801

Arch Instrument Co 101 Holmes St N Quincy Mass PR 3-5007

Arco Co 7501 Bessemer Ave Cleveland 27 Ohio MI 1-1170

American Time Products Inc 580 S Ave New York 36 N Y PL 7-1430

American Tower Co RFD 7 Box 29 Shelby Ohio 42481

American Tradair Corp 3401 30 St Long Island City 6 N Y BA 8-0401

American Transformer Co Div Standard Electronics 285 Emmett St Newark N J

American Window Glass Co Farmers Bank Bldg Pittsburgh 22 Pa EX 1-1745

Amsil Co 685 Ramsey Ave Hillside N J MU 8-4500

Anglo Corp 4333 Ravenswood Ave Chicago 13 Ill BU 1-2727

AMI Inc 1500 Union Ave Grand Rapids 2 Mich CH 3-3633

AMP Inc Chemical Dielectrics Div 155 Park St Elizabethtown Pa 7-1105

AMP Inc Harrisburg Pa CE 4-0101

Amplex Electronic Corp 230 Duffy Ave Hicksville L I N Y WE 1-6200

Amosite Co 561 Broadway New York 12 N Y CA 6-1446

Amplex Corp 934 Charter St Redwood City Calif EM 8-1471

Amphenol Electronics Corp 1830 So 54th Ave Chicago 50 Ill

← See listing

Amplex Div Chrysler Corp P O Box 2718 Detroit 31 Mich WA 1-6733

Amplifier Corp of America 19W Broadway New York 13 N Y WD 6-2929

Amplified Inc 342 W 40 St New York 18 N Y BI 9-0710

Amplivox Ltd 2 Bentiner St London W I England WE-2591

Amthor Testing Instrument Co 45 Van Sinderen Ave Brooklyn 7 N Y DI 6-8841

Amtron Corp 17 Felton St Waltham 54 Mass TW 4-5020

Anaconda Co 25 Broadway New York 4 R Y TE 6-5056

Analogue Controls Inc 39 Roselle St Mineola N Y PI 2-8901

Analytic Systems Co Div Research Instrument Corp 980 B Fair Oaks Ave Pasadena Calif RY 1-6634

Anatran Div Endevco Corp 45 W Union St Pasadena Calif

Anchor Metal Co 966 Meeker Ave Brooklyn 22 N Y ST 2-7090

Anchor Plastics Co 36-36 36 St Long Island City 6 N Y RA 91394

Anchor Products Co 2712 W Montrose Ave Chicago 18 Ill IM 3-4858

Anchor Specialty Mfg Co Hollister Rd Teterboro N J AT 8-1939

Andersen Labs Inc 501 New Park Ave W Hartford Conn AD 3-4491

Anderson & Sons N Elm St Westfield Mass LO 2-9671

Anderson Associates H V 233 Broad St Summit N J CR 3-1840

Anderson Controls Inc 2777 Mannheim Rd Des Plaines Ill

Anderton Electronic Lab 129 E 1800 S St Bountiful Utah AX 5-5113

Andra Radio Corp 27-01 Bridge Plaza N Long Island City 1 N Y SI 4-5411

Andrew Antenna Corp 606 Beech St Whitby Ontario Can MO 8-3348

Andrew California Corp 941 E Maryland Ave Claremont Calif LY 5-3505

Andrew Corp 363 E 75 St Chicago 19 Ill

ALPHABETICAL LISTING of MANUFACTURERS with LOCALIZER INDEX

PHILADELPHIA, PA.: W. R. Murrey, 620 E. Moreland Ave., Wyndmoor, Chester Hill 7-0831

ROCHESTER, N. Y.: Brace-Mueller-Huntley, Inc., 315 Hollenbeck St., Congress 6860 (Dr. J. E. Wilson)

SEATTLE, WASH.: The National Company, Inc., 70 Marion St., Mutual 2450 (John H. Fowel)

SYRACUSE, N. Y.: Brace-Mueller-Huntley, Inc., Thompson Road, P. O. Box 1340, Howard 3-3341 (Dr. J. E. Wilson)

WASHINGTON, D. C.: The Arnold Engineering Company, 1001 15th St., N.W., Executive 3-4232 (A. L. Snyder)

CANADA: AJAX, ONTARIO: Bay Engineering Limited, First Street, (Toronto Exchange) Empire 8-6866 (B. deF. Bayly, D. L. McPherson)

EXPORT: NEW YORK, N. Y.: Sylvan Ginsbury, Ltd., 8 West 40th Street, Longacre 4-7585 (Sylvan Ginsbury)

Arnold Magnetics Corp 4615 W Jefferson Blvd Los Angeles 16 Calif RE 1-6344
 Arnour Corp 11924 W Washington Blvd Los Angeles 66 Calif TE 0-6756
 Arvo Expansion Bolt Co North Boone Ave Marion, Ohio 3-1154
 Arrow-Hart & Hegeman Electric Co 103 Hawthorn St Hartford 3 Conn
 Arrowhead Products 2300 Curry St Long Beach 1 Calif GA 3-5473
 Arrow Radio Co 1829 Oavenport Rd Toronto Ontario Canada
 Arrow Tool Co Inc 26 Mill St Wethersfield Conn JA 9-2507
 Art Decorating Co 4201 Hudson Blvd N Bergen N J UN 5-0452
 A R & Y Electronics 1501 E 6th St N Little Rock Ark FR 5-6441
 Artisan Electronics Corp 171 Ridgedale Ave Morris-town N J JE 8-8500
 Artisan Metal Works Co 11400 Madison Ave Cleveland 2 Ohio LA 1-6173
 Artos Eng'g Co 2757 S 28 St Milwaukee 46 Wisc WI 5-6010
 Art Specialty Co 3245 W Lake St Chicago 24 Ill KE 3-3255
 Artted Co 367 Worthington St Springfield 3 Mass RE 3-3944
 Art Wire & Stamping Co 227 High St Newark 2 N J HU 4-2100
 Arvey Corp Fibre Forming Div 202 Franklin St Olean N Y 4176
 Arvin Industries Inc Columbus Ind 5521
 Arvo Wire & Cable Co 2 Burroughs St Bridgeport 8 Conn ED 6-1864
 Asheville-Schoonmaker Mica Co 900 Jefferson Ave Newport News Va 7-1251
 Ashland Electric Products Inc 3202 Queens Blvd Long Island City 1 N Y EX 2-4910
 Askania Regulator Co 240 E Ontario St Chicago 11 Ill WH 4-3700
 Assembly Products Inc Wilson Mills Rd Chesterland 1 Ohio HA 3-4436
 Associated American Trading Div 750 St Ann's Ave New York 56 N Y CV 2-5050
 Associated Commodity Corp Woolworth Bldg New York 7 N Y WD 4-1922
 Associated Eng'g Corp 65 Kent St Brookline 46 Mass AS 7-4664
 Associated Eng'g & Mfg Corp 210 Stonehouse Rd Glen Ridge N J PI 3-8999
 Associated Mfg Co 4755 N Rockwell St Chicago 25 Ill LO 1-8365
 Associated Missile Products Sub American Mch & Fdry 2709 N Garey Ave Pomona Calif LY 4-2811
 Associated Production Co 162 N Clinton St Chicago 6 Ill RA 6-1880
 Associated Research Inc 3758 W Belmont Ave Chicago 18 Ill CO 7-4040
 Associated Specialties Co 1751 Main St Orefield Pa EX 5-1275
 Associated Spring Co 1800 Clybourn Ave Chicago 14 Ill
 Associated Testing Labs 409 Clinton Rd Caldwell N J CA 6-7407
 Astatic Corp 250 Harbor St Conneaut Ohio 2-2656
 Astron Corp 255 Grant Ave E Newark N J HU 2-7800
 Atchley Inc Raymond 2320 Sawtelle Blvd Los Angeles 64 Calif GR 9-8626
 Atkinson Lab Inc 7070 Santa Monica Blvd Los Angeles Calif HO 9-8374
 Atomatic Valve Co 545 W Abbott St Indianapolis 25 Ind ME 8-6545
 Atlantic Metal Hose Co 308 Dyckman St New York 34 N Y LO 9-5400

Atlantic Research Corp 901 N Columbus St Alexandria Va KI 9-7500
 Atlantic & Pacific Wire & Cable Co 112-01 Northern Blvd E Elmhurst L 1 N Y HI 6-1080
 Atlantic Transformer Corp 30 Hynes Ave Groton Conn HI 5-9768
 Atlas Coil Corp 63 Main St Ansonia Conn RE 5-4628
 Atlas E-E Corp 47 Prospect St Woburn Mass WO 2-5390
 Atlas Electric Products Co PO Box 1591 Erie Pa 469-76
 Atlas Eng'g Co 176 Blue Hill Ave Roxbury 19 Mass HI 5-7100
 Atlas Film Corp 1111 S Blvd Oak Park Ill AU 7-8620
 Atlas Mineral Products Co Mertztown Pa OV 2-7171
 Atlas Precision Products Co 3801 Castor Ave Philadelphia 24 Pa JE 5-3700
 Atlas Resistor Co 1128 Madison St Chester Pa CH 3-3341
 Atlas Screw & Specialty Co 450 Broome St New York 13 N Y WD 6-0600
 Atlas Sound Coro 1449 39 St Brooklyn 18 N Y GE 8-5500
 Atmosphere Control Co 5315 Chester Ave Philadelphia 43 Pa SA 9-1388
 Atoton Corp 527 N Union St Galion Ohio
 Attleboro Refining Co 36 Union St Attleboro Mass 1-3705
 Atomic Accessories Inc 244-02 Jamaica Ave Bellerose 26 N Y PR 5-6175
 Atomic Labs Inc 3085 Claremont Ave Berkeley 5 Calif OL 5-1353
 Auburn Mfg Co Stack St Middletown Conn DI 6-6631
 Auburn Spark Plug Co 89 York St Auburn N Y 2-9501
 Audicon Electronics Inc 216 Lyon St Paterson 4 N J LA 5-1339
 Audio Accessories Amityville N Y AM 4-7080
 Audio Development Co 2833 23 Ave S Minneapolis Minn PA 9-7386
 Audio Devices Inc 444 Madison Ave New York 22 N Y PL 3-0973
 Audio Electronics 15858 35 Ave N E Seattle 55 Wash GL 1613
 Audio Equipment Co 805 Middle Neck Rd Great Neck N Y HU 2-8480
 Audiosch Corp 514 Broadway New York 12 N Y WD 6-0800
 Audio Instrument Co 133 W 14 St New York 11 N Y OR 5-7820
 Audio-Master Corp 17 E 45 St New York 17 N Y OX 7-0725
 Audiomation Labs 7230 Clinton Rd Upper Darby 14 Pa MA 6-6041
 Audio Sears Corp Shepard Hill Rd Roxbury N Y 2261
 Audio-Video Recording Co 730 5 Ave New York 19 N Y JU 6-5095
 Audivox Inc 123 Worcester St Boston 18 Mass KE 6-6207
 Audocall Co 57 1/2 Ave Shelby Ohio 3-1015
 Auerbach Electronics Corp 109 N Essex Ave Narberth Penna MD 4-7633
 Augat Bros 33 Perry Ave Attleboro Mass 1-2202
 Aurex Corp 1117 N Franklin St Chicago 10 Ill WH 4-1117
 Austin Co Special Devices Div 76 9 Ave New York 11 N Y WA 4-3630
 Autel Electronics Co P O Box 225 Linden N J HU 6-6920
 Autin Electric Co 34-20 45 St Long Island City 1 N Y AS 8-7000
 Authorized Mfrs Service Co 919 Wyckoff Ave Brooklyn 27, N Y
 Autocrat Electronics Co 5024 Elm St Skokie Ill OR 3-8033
 Automatic Coil Co 415 Bedford Ave Brooklyn 11 N Y ST 2-3333
 Automatic Control Co 995 University Ave St Paul 4 Minn MI 6-1801
 Automatic Electric Co Northlake Ill ES 9-4300
 Automatic Metal Products Corp 323 Berry St Brooklyn 11 N Y EV 8-0364
 Automatic Methods Inc 965 W Grand St Elizabeth N J EL 4-4666
 Automatic & Precision Mfg Co 252 Hawthorne Ave Yonkers N Y YO 8-2010
 Automatic Radio Mfg Co 122 Brookline Ave Boston 15 Mass CO 6-1420
 Automatic Switch Co Hanover Rd Florham Park N J FR 7-4600
 Automatic Timing & Controls Inc King of Prussia Pa BR 9-1100
 Automation Components Inc 875 Hickory St Peckville Pa HU 9-3213
 Automation Electronics Inc 231 W Olive St Burbank Calif
 Automation Inc 212 Worcester St Wellesley Hills 82 Mass WE 5-6621
 Automation Instruments Inc Industrial Pk Boulder Colo HI 2-1124
 Automation Management Inc Adams St Westboro Mass 377
 Autometrics Div North American Aviation 9150 E Imperial Hwy Downey Calif LU 3-6111
 Autoscrew Co 21E W 18 St New York 11 N Y WA 9-3137
 Auto Test Inc 600 S Michigan Ave Chicago 5 Ill WA 2-5459

Auto Test Inc 411 W 8th St Neillsville Wisc 345
 Autotron Inc 3629 N Vermilion St Danville Ill 287
 Autron Eng'g Inc 1254 W 6 St Los Angeles 17 Calif MU 3237
 Autronics Inc Rt 1 Box 812 Florissant Mo TE 7-3565
 Avco Manufacturing Corp Crosley Div 1329 Arlington St Cincinnati 25 Ohio KI 1-6600
 Avery Adhesive Label Corp 1616 S California Ave Monrovia Calif EL 8-2524
 Avia Products Co 7266 Beverly Blvd Los Angeles 36 Calif WE 6-7295
 Aviation Development Inc 210 S Victory Blvd Burbank Calif VI 9-463
 Aviation Electronic Service N 12 St Wheeling Ill WH 405
 Avion Div ACF Industries Inc 11 Park Pl Paramus N J CO 1-4100
 Avionics Ltd P O Box 200 Niagara-on-the-Lake Ontario Canada 599
 Avnet Electronic Supply Co 36 N Moore St New York 13 N Y BE 3-5780
 Avon Tube Div Highby Mfg Co Barrett Rd Rochester Mich OL 2-9871
 Avtron Mfg Inc 10409 Meech Ave Cleveland 5 Ohio WI 1-8310
 Axel Bros Inc Electronics Div 134-20 Jamaica Ave Jamaica 18 N Y RE 9-1700
 Azler Associates Inc 102-42 43 Ave Corona 68 N Y Babbitt Chemical Co 38 Prospect St New Bedford Mass WY 4-0024
 Babcock Radio Eng'g Inc 7942 Woodley Ave Van Nuys Calif ST 5-8648
 Babcock Relays Inc 14743 Lull St Van Nuys Calif ST 6-8001
 Babcock & Wilcox Co Tubular Products Div Beaver Falls Pa 2100
 Bache & Co Semon 636 Greenwich St New York 14 N Y WA 4-2121
 Bach-Simpson Ltd 1255 Brydges St London Ont Canada 3-8458
 Bacon Industries 192 Pleasant St Watertown 72 Mass WA 4-5000
 Baer Co N S 1-11 Montgomery St Hillside 5 N J MU 8-2250
 Bailey Meter Co 1050 Ivanhoe Rd Cleveland 10 Ohio GL 1-4600
 Baird-Atomic Inc 33 University Rd Cambridge 38 Mass UN 4-0101
 Bakelite Co Div Union Carbide & Carbon Corp 30 E 42 St New York 17 N Y MU 7-8000
 Baker Bros Post & Harleau Sts Toledo 10 Ohio CH 4-9511
 Baker & Co 113 Astor St Newark 2 N J BI 3-0030
 Baker Chemical Co J T Phillipsburg W J 5-2151
 Balco Research Labs 49 Edison Place Newark 2 N J WI 3-5200
 Baldwin-Lima-Hamilton Corp Electronics & Instrumentation Div 42 4 Ave Wallham 54 Mass TW 4-6700
 Baldwin Piano Co 1801 Gilbert Ave Cincinnati 2 Ohio MA 1-4300
 Baldwin Products Corp 432 E Valley Blvd San Gabriel Calif AT 8-0988
 Ballantine Labs Inc Boonton N J DE 4-1432
 Ballastron Corp 1701 N Calhoun St Ft Wayne Ind E 2285
 Balleau Electric Corp New and Meadow Sts Stamford Conn DA 4-6118
 Baltic Metal Products 126 Sutton St Brooklyn 22 N Y
 Barber-Colman Co Rem St Rockford Ill 8-6833
 Barber & Howard Co East Ave Westley R I 2363
 Barco Chemical Products Co 701 S LaSalle St Chicago 3 Ill HA 7-2916
 Barium & Chemicals Inc Willoughby Ohio WH 2-5151
 Barker & Williamson Inc Canal & Beaver Sts Bristol Pa ST 8-5581
 Barkley & Dexter Laboratories 50 Frankfort St Fitchburg Mass FI 2-5906
 Barlowe Electronics 392 Wantagh Ave Bethpage N Y WE 1-5612
 Barlowe Television 402 N Wantagh Ave Bethpage N Y WE 1-5612
 Barnes Co Wallace Div Associated Spring Corp Bristol Conn LU 2-9581
 Barnes Development Co 213 W Baltimore Pike Lansdowne Pa MA 6-3294
 Barnes & Reinette 230 E Ohio St Chicago 11 Ill DE 7-6350
 Barnstead Still & Demineralizer Co 253 Lanesville Terrace Boston 31 Mass JA 4-3100
 Bar-Ray Products Inc 209 25th St Brooklyn 32 N Y SO-8-1020
 Barrett Co Leon J 1521 Grafton Rd Worcester 1 Mass PL 5-4306
 Barrett Div Allied Chemical & Dye Corp 40 Rector St New York 6 N Y HA 2-7300
 Bartron Electronics Corp 670 Dundee Rd Northbrook Ill CR 3-2800
 Barrett Varnish Co 1532 S 90 Court Cicero 50 Ill BI 2-2462
 Barry Controls Inc Western Div 2821 N Naomi St Burbank Calif VI 9-2256
 Barry Controls Inc 700 Pleasant St Watertown 72 Mass WA 3-1150
 Barry Electronics Corp 512 Broadway New York N Y WA 5-7000
 Bart Mfg Corp 227 Main St Belleville N J PL 9-0200
 Barton Electronics Inc 1000 Farmington Ave W Hartford 7 Conn AD 3-7709
 Barushi Jr Ernest F 290 Riverside Dr New York N Y RI 9-3546

ALPHABETICAL LISTING of MANUFACTURERS with LOCALIZER INDEX

Barwood Electronics Inc 921 E Broadway Glendale 5 Calif CH 5-4063
 Basic Controls Co 1714 Westwood Blvd Los Angeles 24 Calif GR 3-4310
 Basler Electric Co 601 S St Highland Ill 2123
 Baso Inc 730 N Jackson St Milwaukee 1 Wisc BR 3-5388
 Bassett Inc Rex 1314 N E 17 Ct Ft Lauderdale Fla LO 4-3028
 Baughman Co E J 1914 N Cogswell Rd El Monte Calif GI 4-7586
 Bausch & Lomb Optical Co 628 St Paul St Rochester 2 N Y LO 2-3000
 Bayside Timers 45-25 162 St Flushing 58 N Y IN 3-8935
 B & C Insulation Products Inc 490 Lincoln Hwy Ictin N J LI 8-0815
 Beach-Russ Co 50 Church St New York 7 N Y CO 7-1115
 Beach Chain Mfg Co 110 Mountain Grove St Bridgeport 5 Conn ED 4-4124
 Bean & Co Morris Hyde Rd Yellow Springs Ohio 7-7302
 Beattie-Coleman Inc 1000 R Olive St Anaheim Calif PR 4-4503
 Beaver Gear Works 1025 Parmele St Rockford Ill 3-9691
 Beck Bros 421 W Sedgley Ave Philadelphia 40 Pa WE 4-3548
 Becker Electronics Mfg Corp 1091 Rockaway Ave Valley Stream N Y LO 1-2510
 Becker Productions V 5 551 B Ave New York 17 N Y MU 2-0777
 Beckman/Berkeley Div Beckman Instruments Inc 2200 Wright Ave Richmond 3 Calif LA 6-7730
 Beckman/Helipot Corp Newport Beach Calif LI 8-9361
 Beckman Instruments Inc Data @ Control Systems Scientific Instruments Div 325 N Muller Ave Anaheim Calif PR 4-5430
 Beckman Instruments Inc Process Instruments Div 2500 Fullerton Rd Fullerton Calif DW 7-1771
 Beckman Instruments Inc Scientific Instruments Div 2500 Fullerton Rd Fullerton 1 Calif LA 5-8241
 Beckman & Whitley 973 E San Carlos Ave San Carlos Calif LY 3-7824
 Beck's Inc 298 E S St St Paul 1 Minn CA 4-6465
 Beede Electrical Instrument Co Penacook N H PL 3-6362
 Behr-Manning Co 3057 Howe St Troy N Y AR 3-0100
 Behy Electric Co 1327 S Main St Los Angeles 15 Calif RI 9-0830
 Beiden Mfg Co 415 S Kilpatrick Chicago 44 Ill ES 8-1000
 Belding Corticelli Industries Inc 1407 Broadway New York 18 N Y CH 3-6040
 BelFab Corp 11 Ramah Circle Agawam Mass ST B-6247
 Bel Fuse Inc 311 Mountain Rd Union City N J UN 6-5416
 Bell Aircraft Corp P O Box 1 Buffalo 5 N Y NF 7-8151
 Bell Electronics Inc 62 White St Red Bank N J BA 7-0655
 Belleville-Hexem Corp 638 University Ave Los Gatos Calif EL 4-1379
 Bell & Gossett Co 8200 Austin Ave Morton Grove Ill TN 3-4040
 Bell & Howell 7100 McCormick Rd Chicago 45 Ill AM 2-1600
 Bell Sound Systems Inc 555 Marion Rd Columbus 7 Ohio HI 4-1193
 Belltron Mfg Co 400 Hoover Ave Bloomfield N J PJ 8-1121
 Belmet Products Co 503 Morgan Ave Brooklyn 22 N Y ST 2-3554
 Belmont Smelling & Refining Works 330 Belmont Ave Brooklyn 7 N Y DI 2-3900
 Belock Instrument Corp 111-01 14 Ave College Point 56 N Y HI 5-4200
 BellTone Hearing Aid Co 2900 W 36 St Chicago 32 Ill LA 3-7984
 Bemis Bro Bag Co 408 Pine St St Louis 2 Mo CH 1-7900
 Benchmark Mfg Co 1835 W Rosecrans Ave Gardena Calif FA 1-0411
 Bendix Aviation Corp Bendix Computer Div 5630 Arbor Vitae St Los Angeles 45 Calif OR 8-2128

See listing →

Bendix Aviation Corp Pacific Div 11600 Sherman Way N Hollywood Calif ST 7-2881
 Bendix Aviation Corp Pioneer-Central Div 2734 Hickory Grove Rd Davenport Iowa 7-9101
 Bendix Aviation Corp Friez Instrument Div 1400 Taylor Ave Baltimore 1 Md VA 3-4040
 Bendix Aviation Corp Bendix Radio Div East Joppa Rd Towson 4 Md VA 3-2200
 Bendix Aviation Corp 1104 Fisher Bldg Detroit 2 Mich TR 5-5000
 Bendix Aviation Corp Red Bank Div Eatontown N J EA 3-2000
 Bendix Aviation Corp Red Bank Div Semiconductor Dept 201 Westwood Ave Long Branch N J CA 2-6220
 Bendix Aviation Corp Foundries Div Teterboro N J AT 8-2000
 Bendix Aviation Corp Scintilla Div Delaware Ave Sidney N Y SI 3-9511
 Bendix Aviation Corp Cincinnati Div 3130 Wasson Rd Cincinnati 8 Ohio EL 1-2323
 Bennett & Co Paul 230 E Ohio St Chicago 11 Ill DE 7-4858

Bennett Co R P 43 S Carroll St Frederick Md MO 3-6104
 Bennett Labs Inc 2700 Bay Rd Redwood City Calif EM 6-6845
 Bennett Mfg Co Railroad St Alden N Y AL 3711
 Benson-Lehner Corp 11930 W Olympic Blvd Los Angeles 64 Calif BR 2-3484
 Bentley Harris Mfg Co Conshohocken 30 Pa TA 8-0634
 Berg Mfg Corp 142 Reno St New Cumberland Pa CE 8-9394
 Bergen Labs 247 Crooks Ave Clifton N J GR 3-1883
 Bergen Wire Rope Co 455 Gregg St Lodi N J HU 7-3521
 Berkeley Crystal Co 1740 University Ave Berkeley 3 Calif TH 5-4409
 Berkshire Labs 586 Bank Village Greenville N H 111 Berkshire Transformer Corp Route 341 Kent Conn WA 7-3541
 Berman Labs 112-03 Rockaway Blvd Ozone Park 20 N Y VI 3-1045
 Bernard Franklin Co 4155 E Hedley St Philadelphia 37 Pa JE 3-4500
 Bernco Engineering Corp 2320 S Tibbs Ave Indianapolis 41 Ind CH 1-2871
 Bernst-Bach Inc Auricon Div 6900 Romaine St Hollywood 30 Calif HO 2-0931
 Beryllium Corp P O Box 1462 Reading Penna WA 9-0781
 Beryllium Corp Tuckerton Rd Reading Pa 9-0781
 Beseler Co Charles 219 S 12 St E Orange N J OR 6-6500
 Bestraltr Products Co 626 Broadway New York 12 N Y AL 4-7920
 Beta Electric Div Sorensen Co 333 E 103 St New York 29 N Y EN 9-7550
 Bethlehem Apparatus Co Front & Depot Sts Hellertown Pa TE 8-8221
 Bethlehem Steel Co Bethlehem Pa UN 7-2424
 Better Coil & Transformer Corp Goodland Ind 15
 Beva Laboratory 1640 N Olden Ave Ext Trenton 6 NJ EX 4-4074
 Bevin Wilcox Line Co 95 Skinner St E Hampton Conn AN 7-2314
 B & F Instruments Inc 4732 N Broad St Philadelphia 41 Pa MT 4-2828
 B I F Industries 345 Harris Ave Providence R I GA 1-4302
 B & H Instrument Co 3479 W Vickery Blvd Ft Worth 7 Texas ED 6-7243
 Biddle Co James G 1316 Arch St Philadelphia 7 Pa LO 4-1620
 Bigelow Mfg Corp 225 W Bigelow St Newark 8 N J BI 3-6850
 Bigelow Metallizing Chemicals Co 98 Bigelow St Quincy 69 Mass GB 2-9621
 Biggs Co Carl H 2255 Barry Ave Los Angeles 14 Calif GR 9-6732
 Biophysical Instruments Inc 20 Herman St Philadelphia 44 Pa GE 8-5260
 Bio-Rad Labs 800 Delaware St Berkeley Calif TH 3-0923
 Bios Labs Inc 17 W 60 St New York 23 NY PL 7-8171
 Bird & Co Richard H 1 Spruce St Waltham 54 Mass TW 4-0160
 Bird Electronic Corp 1800 E 38 St Cleveland 14 Ohio EX 1-3535
 Birdair Structures Inc 290 Larkin St Buffalo 10 NY MD 6520
 Birmingham Sound Reproducers Ltd Monarch Works Postle Lane Old Hill Staffordshire England CR 6-9272
 Birnback Radio Co 145 Hudson St New York 13 NY WA 5-6980

Bendix Computer Division of Bendix Aviation Corporation, 5630 Arbor Vitae Street, Los Angeles 45, Calif. Phone: ORchard 4-3641. Director of Marketing—O. Paul Staderman

EASTERN REGION—1000 Connecticut Avenue, N. W., Washington 6, D. C., STerling 3-1508. Regional Manager—R. A. Sweet

MIDWESTERN REGION—919 N. Michigan Avenue, Chicago 11, Ill., Michigan 2-6692. Regional Manager—R. C. Whiting

SOUTHWESTERN REGION—1511 Bryan Street, Dallas 1, Tex., Riverside 7-8006. Regional Manager—R. F. Wals

WESTERN REGION—5630 Arbor Vitae Street, Los Angeles 45, Calif., OREGON 8-6262. Regional Manager—G. J. Vosatka

Bishop Die-Engraving 1405 16th St Racine Wisc ME 2-7706
 Bircher Corp Industrial Div 4371 Valley Blvd Los Angeles 32 Calif CA 2-9101
 Bishop & Co Platinum Works J Malvern Pa MA 3100
 Bittermann Electric Co Barlow St Canaan Conn TA 4-7345
 Biwax Corp 3445 Howard St Stohr Ill OR 3-1050
 B J Electronics Borg-Warner Corp 3300 Newport Ave Santa Ana Calif KI 5-5581
 Bjorksten Research Labs For Industry P O Box 1175 Madison 1 Wisc AL 6-5581
 B & M Mfg Co 3726 N Southport Chicago Ill EA 7-9480
 Blackburn Electronic Corp 55 W 7 St Wyoming Pa WV 1190
 Black & Decker Mfg Co E Penna Ave Towson 4 Md VA 3-4400
 Black Light Corp of America 5114 Walnut Grove Ave San Gabriel Calif CU 3-3193
 Black Light Eastern Corp 33-04 Northern Blvd Bay-side 61 N Y FA 1-0909
 Black Light Products Inc 53 W Jackson Blvd Chicago 4 Ill WA 7-8965
 Black & Webster Inc 445 Waterdown St Newton 20 Mass BI 4-6370
 Blaco Mfg Co 6541 Euclid Ave Cleveland 3 Ohio EX 1-0497
 Blaine Electronics Inc 14757 Keswick St Van Nuys Calif ST 2-6303
 Blawie Knox Co Blaw-Knox Equip Div Pittsburgh 18 Penna ST 1-2700
 Blickman Inc 201 Gregory Ave Weehawken N J UN 3-0800
 Bliley Electric Company Union Station Building Erie Pennsylvania 2-2287
 Bliss Electronic Corp Box 366 Sussex NJ SU 2-3000
 Blomder-Tongue Laboratories 9-25 Alling St Newark 2 N J MA 2-8151
 Bloomingdale Rubber Co 1 Flower St Chester Pa 3-6158
 Blue M Electric Co 138 & Chatham St Blue Island Ill FU 5-9000
 B & M Electric Corp 238 J Ave Brooklyn 32 NY NY 9-5945
 Bodge Screen & Projector Co 11541 Bradley Ave San Fernando Calif EM 5-2551
 Bodine Electric Co 2254 W Ohio St Chicago 12 Ill SE 3-6410
 Bodnar Industries 238 Huguenot St New Rochelle NY NE 6-4664
 Boehme Inc H O 915 Broadway New York 10 NY SP 7-2208
 Boeing Airplane Co Missiles Div Seattle Wash
 Boesch Mfg Co 45 River St Danbury Conn PI 3-5571
 Bogart Mfg Co 315 Seigel St Brooklyn 6 NY NY 7-4972
 Bogen-Pristo Div Siegler Corp P O Box 500 Paramus N J DI 3-5700
 Bogue Electric Mfg Co Iowa Ave Paterson 3 NJ LA 5-2200
 Bolling Industries Inc 1117 N Main Ave P O Box 981 Scranton 2 Pa DI 6-1588
 Bolta Products Div General Tire & Rubber Co 70 Garden St Lawrence Mass MU 3-7121
 Bolton Labs Inc W Main St Bolton Mass SP 9-2201
 Bomac Labs Inc Salem Rd Beverly Mass WA 2-6000
 Bond Electronics Corp 60 Springfield Ave Springfield NJ MU 8-3838
 Bone Eng'g Corp 701 W Broadway Glendale 3 Calif CH 5-2538
 Bonny Mfg Corp 340 Auburn St Auburndale Mass DE 2-5796
 Boonton Electronics Corp 738 Speedwell Ave Morris Plains NJ JE 8-5110
 Boonton Molding Co 326 Myrtle Ave Boonton NJ DE 4-4400
 Boonton Radio Corp Intervale Rd Boonton NJ DE 4-3200
 Booth Co Arthur E 265 S Alexandria Ave Los Angeles 4 Calif DU 9-4863
 Boots Aircraft Nut Corp Newton Turnpike Norwalk Conn
 Borden Co Chemical Div Resinite Dept P O Box 1589 Santa Barbara Calif 3134
 Borden Co Chemical Div 350 Madison Ave New York 17 NY MU 7-4100
 Borden Corp E Franklin St Danbury Conn PI 3-3885
 Borg Equip Div George W Borg Corp 120 S Main St Janesville Wisc PL 4-6616
 Borthing Co George C Hwy 20 E Rutherford N J WE 9-9260
 Bosch Inc M Ten 80 Wheeler Ave Pleasantville NY RO 9-3000
 Boston Insulated Wire & Cable Co 65 Bay St Dorchester 25 Mass CO 5-2104
 Boston Women Hose & Rubber Co P O Box 1071 Boston 5 Mass TR 6-6000
 Boulevard Recording Studio 632 N Dearborn St Chicago 1 Ill WW 4-2752
 Boulette Co P O Box 73 Huntington Sta N Y HA 3-0897
 Bounin Instrument Corp 10 1 St Pelham NY PE 8-3966
 Bourns Labs Inc P O Box 2112 Riverside Calif DV 4-1700
 Bowers Battery & Spark Plug Co P O Box 1262 Reading Pa 9-0771
 Bowmar Instrument Corp 8030 Bluffton Rd Ft Wayne Ind H-2351
 Bowser Technical Refrigration Div Bowser Inc Terryville Conn LU 2-7471
 Bow Solder Products Co 251 Freeman St Brooklyn 22 NY EV 9-4863

ALPHABETICAL LISTING of MANUFACTURERS with LOCALIZER INDEX

Boyle Metalcraft Corp 150 Sullivan St Brooklyn 31 N Y TR 5-3603
 Boy-Mar Electrical Service Co 1271 Mission St San Francisco 3 Calif UN 1-2245
 Bozak Sales Co R 7 Box 1166 Darien Conn TE 8-6521
 Brach Mfg Corp 200 Central Ave Newark 3 NJ NU 2-1500
 Bradford Components Inc 65 South Ave Salamanca N Y 2340
 Bradford Components Inc 33-35 Bishop St Bradford Pa BR 3652
 Bradley Associates 1650 N Damen Ave Chicago 47 III AR 6-8197
 Bradley Labs Inc 168 Columbus Ave New Haven Conn MA 4-3123
 Bradley Mining Co 660 Market St San Francisco 4 Calif EX 2-7005
 Brady Co W H 727 W Glendale Ave Milwaukee 9 Wise ED 2-8100
 Brailsford & Co 670 Milton Rd Rye NY 7-1820
 Brainin Co C S 320 Washington St Mt Vernon NY MD 8-5500
 Bram Metallurgical-Chemical Div 820 65 Ave Philadelphia 26 Pa WA 4-2121
 Brand & Co William 41 North St Willimantic Conn HA 3-6301
 Brand Dieterichs Inc 57 North St Willimantic Conn HA 3-6321
 Branson Corp S Jefferson Rd Whippany NJ TU 7-1100
 Branson Instruments Inc 37 Brown House Rd Stamford Conn DA 4-6721
 Braun Tool & Instrument Co Inc H 140 Fifth Ave Hawthorne N J HA 7-1773
 Bray Studios Inc 729 7 Ave New York 19 NY CI 5-4582
 Breeze Corp 700 Liberty Ave Union NJ MU 6-4000
 Breen Labs 1520 Evergreen Rd Williamsport Pa 7426
 Brewer Electric Mfg Co 5100 N Ravenswood Ave Chicago 40 III LO 1-6162
 Brew Products Corp 601 W 26th St New York N Y WA 4-4737
 Brew & Co Richard D 90 Airport Rd Concord NH CA 5-6006
 Bridgeport Brass Co 30 Grand St Bridgeport 2 Conn ED 4-1182
 Bright Associates 10 DeKalb St Norristown Pa BR 9-2120
 Bright Star Industries 600 Getty Ave Clifton NJ GR 1-3200
 Brilliant Plastics Corp Old Country Rd Mineola NY PI 6-0425
 Brimaver Laboratories E W 86 Fulton St New York 38 NY BE 3-7914
 Bristol Co P O Box 1790 El Waterbury Conn PL 6-4451
 British Electronic Sales Oakland Gardens Flushing 64 N Y MU 2-5844
 British Electronic Sales Co Inc Arcoelectric Switch Div Oakland Gdns Flushing N Y MU 2-5844
 British Electronic Sales Co Inc Painton Div Oakland Gdns Flushing 64 N Y MU 2-5844
 British Industries Corp 80 Shore Rd Port Washington NY PD 7-7700
 British Radio Electronics Ltd 1833 Jefferson Pl NW Washington 6 D C ME 8-6564
 Broadcast Equipment Specialties Corp P O Box 149 Beacon NY BE 9-4597
 Broadway Coil Co 5638 Broadway Chicago 40 III LO 1-3804
 Bron-Shoe Co 269 E Broad St Columbus 15 Ohio CA 1-5886
 Brooke Enn's Co 4517 Wayne Ave Philadelphia 44 Pa PA 4-8822
 Brooklyn Paint & Varnish Co 50 Jay St Brooklyn 1 NY WA 5-2954
 Brooks & Perkins Inc 11655 Vanover N Hollywood Calif ST 7-9665
 Brooks & Perkins Inc 1950 W Fort St Detroit 16 Mich TA 5-5900
 Brooks Radio & TV Corp B4 Vesey St New York 7 N Y CH 7-2312
 Brooks Rotameter Co P O Box 432 Lansdale Pa PA 4602
 Brown-Bridge Mills E Water St Troy Ohio FE 2-1266
 Browning Labs Inc 750 Main St Winchester Mass WI 6-3700
 Brown & Sharpe Mfg Co 235 Promenade St Providence RI DE 1-5000
 Brubaker Electronics Inc 3652 Eastham Dr Culver City Calif TE 0-6441
 Brunner Mfg Co 1821 Broad St Utica 1 NY 5-6161
 Bruno-New York Industries Corp 60 W 34 St New York 1 NY LO 4-5930
 Brown & Sharpe Mfg Co 235 Promenade St Providence RI DE 1-5000
 Brunswick Instruments P O Box 813 New Brunswick NJ CH 7-5919
 Brush Beryllium Co Pennrod Div 501 Crescent Ave Reading Penna
 Brush Beryllium Co 4301 Perkins Ave Cleveland 3 Ohio EN 1-5400
 Brush Electronics Co Div Clevite Corp 3405 Perkins Ave Cleveland 14 Ohio EN 1-3315
 Brush Electronics Co Texas Div 3732 Westheimer Rd Houston 6 Texas MO 7-2425
 Brush Nail Expansion Bolt Co Greenwich Conn GR 8-3190
 Bryant Gage & Spindle Div Box 620-R Springfield VT TU 5-2141
 Bryg Inc Butler Pa 72-795
 Bryg Instrument Co 7026 6 Ave Brooklyn 9 NY PI 2-0278
 Buchanan Electrical Products Corp 225 Route 22 Hillsdale NJ WA 3-7474
 Buck Eng'g Co 37 Marcy St Freehold NJ 8-1111
 Buckbee Mears Co Toni Bldg St Paul 1 Minn

Buckeye Bobbin Co 12200 Sprecher Ave Cleveland 11 Ohio OR 1-5200
 Bucks County Enterprises Quakertown Pa KE 6-2620
 Budd Stanley Co 43-01 22 St Long Island City 1 NY ST 6-1706
 Budelman Radio Corp 375 Fairfield Ave Stamford Conn FI 8-9231
 Buffalo Electronics Corp 37 Franklin St Buffalo 2 NY MO 5855
 Buffalo Instrument Corp 1780 Elmwood Ave Buffalo 7 NY RI 3-640
 Buggie Inc H H P O Box 817 Toledo 1 Ohio TA 2461
 Buhl Optical Co 1009 Beech Ave Pittsburgh 33 Pa FA 1-0076
 Bulva Watch Co Electronics Div 40-01 61 St Woodside 77 NY NE 9-5700
 Bundy Electronics Corp 171 Fabyan Pl Newark 12 NJ ES 2-1872
 Bunnell & Co J H 81 Prospect St Brooklyn 1 N Y UL 8-0100
 Burdick Corp 635 Plumb St Milton Wisc 501
 Burgess Battery Co Ft of Exchange Freeport III MA 3300
 Burgess Battery Co 415 Buttrely St Niagara Falls Ont Canada MA 3300
 Burke & James Inc 321 S Wabash Ave Chicago 3 III HA 7-8393
 Burling Instrument Co 16 River Rd Chatham NJ ME 5-9481
 Burndy Corp Omaton Div Norwalk Conn TE 8-4711
 Burnett Radio Lab W W L 4814 Idaho St San Diego 16 Calif AT 2-2740
 Burnley Battery & Mfg Co 103 Clay St North East Pa 185 R
 Burr-Brown Research Corp Box 6444 Tucson Ariz AX 8-0772
 Burroughs Corp 6071 2 Ave Detroit 32 Mich TR 5-2260
 Burroughs Corp Electronic Instruments Div 1209 Vine St Philadelphia 7 Pa
 Burroughs Corp Electronic Tube Div Box 1226 Plainfield NJ PL 6-0876
 Burton-Rogers Co 42 Carleton St Cambridge 42 Mass EL 4-1643
 Busch-Clement-Doughten & Associates 201 B Studio Hill Chester Springs Pa TA 7-2081
 Bussmann Mfg Co University at Jefferson St Louis 7 Mo GA 1-1740
 B/W Controller Corp 2200 E Maple Birmingham Mich MI 4-5940
 B-W Mfrs Inc Philips Radio Div 721 N Webster St Kokomo Ind GL 7-5444
 By-Bul Co 4314 W Pico Blvd Los Angeles 19 Calif WE 6-6151
 Cabinart Div G & H Wood Products 99 N 11 St Brooklyn 11 NY EV 4-3516
 Cable Electric Products 234 Daboll St Providence 7 RI ST 1-5400
 Cable Specialists of Conn 95 Kilts Lane Newington 11 Conn MO 6-3663
 Cable & Wire Products Co Chicago Rd Swanton Ohio 4676
 Caddell-Burns Mfg Co 40 E 2 St Mineola NY PI 6-2310
 Cado Mfg Co Div Electromation Co 1646 18 St Santa Monica Calif
 Cais Labs 46 Stanwood Rd New Hyde Park NY PI 2-0278
 Calbest Electronics Co 4801 Exposition Blvd Los Angeles 16 Calif RE 1-7291
 Calcon Mfg Co 100 Oakland Ave Washington Pa BA 2-1890
 Cal-Connector Co 7360 Varna Ave N Hollywood Calif ST 7-2623
 Caledonia Electronics & Transformer Corp P O Box 298 Caledonia NY CA-271
 Calidyne Co 120 Cross St Winchester Mass WI 6-3810
 Califone Corp 1041 N Sycamore Ave Hollywood 38 Calif HO 2-2353
 Calif Chassis Co 5445 E Century Blvd Lynwood Calif NR 6-7777
 Calif Electronic Services P O Box 2 Woodland Hills Calif DI 7-1558
 Calif Magnetic Control Corp 11922 Valerio St N Hollywood Calif ST 7-1104
 Calif Technical Industries 1421 Old County Rd Belmont 10 Calif LY 3-8466
 Cal-Met Electronics 5850 Spring Oak Dr Hollywood 28 Calif HO 7-5372
 Cal-Ohm Labs Inc Broadway & Adams St Sterling Kansas 2575
 Caltron Products Co 3518 W Pico Blvd Los Angeles 19 Calif RE 4-2420
 Calvado Tube Corn 5222 W 104 St Los Angeles 45 Calif DR 8-3995
 Cambridge Filter Corp 738 Erie Blvd E Syracuse 3 N Y GR 5-1608
 Cambridge Instrument Co Grand Central Terminal New York 17 NY MU 6-0335
 Cambridge Pattern Works 55 1 St Cambridge 41 Mass KI 7-8191
 Cambridge Thermionic Corp 445 Concord Ave Cambridge 39 Mass TR 6-2800
 Camcar Screw & Mfg Co Div Textron Inc 600 1R Ave Rockford III 5-9451
 Camera Equipment Co 315 W 43 St New York 36 NY JU 6-1420
 Cameraflex Corp 1947 Broadway New York 23 NY TR 3-4022
 Camera Mart Inc 1845 Broadway New York 23 NY PL 7-6977
 Camloc Fastener Corp 22 Spring Valley Rd Paramus NJ HU 9-4900
 Campbell Co Colin Abbott St Danbury Conn PI 3-6701
 Campbell Industries Inc Dover N H SH 2-1120
 Campbell X-Ray Corp 110 Cunningham St Boston 15 Mass KE 6-1611

Campro Co 3131 Alliance Rd N E Canton 1 Ohio GL 5-0334
 Canadian Anglied Research Ltd 1500 Oconnor Dr Toronto 16 Can PL 9-2241
 Canadian Asiatic Ltd 2273 Danforth Ave Toronto 13 Ont Canada OX 9-1127
 Canadian Aviation Electronics Ltd 6214 Cote de Liesse Rd St Laurent Quebec Canada ME 1-6781
 Canadian Curtiss-Wright Ltd 1980 Sherbrooke St W Montreal Que Canada WE 7-6117
 Canadian Radium & Uranium Corp 630 5 Ave New York 20 NY CI 6-0460
 Cannon Co C F Springwater NY 531
 Cannon Electric Co 3208 Humboldt St Los Angeles 31 Calif CA 5-1251
 Cannon Electric Co Eastern Div Pingree & Leavitt Sts Salem Mass PI 5-0700
 Cannon-Muskegon Corp Box 506 Muskegon Mich 51676
 Cannon Corp 5955 Sepulveda Blvd Van Nuys Calif ST 6-9010
 Capcon Inc 25 Willett St New York 2 N Y DR 7-6300
 Capital Film Service 224 Abbott Rd E Lansing Mich ED 2-3544
 Capitol Machine Co 36 Balmforth Ave Danbury Conn PI 3-2758
 Caribol Prescription Service 1120-A Conn Ave N W Washington 6 D C EX 3-0161
 Capos & Co 20 Addison Pl Valley Stream L I NY VA 5-4113
 Carad Corp 2850 Bay Rd Redwood City Calif EM 8-2969
 Caride & Carbo Chemicals Co Div Union Carbide & Carbon 30 E 42 St New York 17 NY MU 7-8000
 Carbolite Co 32 Hanley Ind Ct St Louis 19 Mo MI 7-5795
 Carboneau Industries Inc 100 Lexington Ave 5 W Grand Rapids 4 Mich GL 6-9528
 Carborundum Co Global Div Hyde Park Blvd Niagara Falls NY 5715
 Carborundum Metals Co Div Carborundum Co P O Box 32 Akron NY 9454
 Carborundum Co Lalrobe Plant Refractories Div Lalrobe Pa KE 7-3331
 Cardinal Instrumentation Corp 4201 Redwood Ave Los Angeles 66 Calif TE 0-6731
 Cardwell Co Allen D 97 Whiting St Plainville Conn SH 7-2741
 Carlino Electric Inc 505 New Park Ave W Hartford 10 Conn AO 2-4461
 Carnt Co Box 554 Brookhaven Miss 1998
 Carol Electronics Corp 315 W Stephen St Martinsburg W Va 8911
 Carpenter Steel Co Alloy Tube Div Springfield Rd Union NJ MU 6-7230
 Carpenter Steel Co Front & Bern Sts Reading Pa 4-8211
 Carrier Corp 300 B Geddes St Syracuse 1 NY SY 76-9911
 Carroll Pressed Metal Inc 133 Dewey St Worcester 10 Mass SW 9-4116
 Carstedt Research Inc 2501 E 68 St Long Beach 3 Calif NE 6-9364
 Carter Mfg Corp 23 Washington St Hudson Mass IU 1309
 Carter Motor Co 2711 W George St Chicago 18 III JU 8-7700
 Carter Parts Co 3401 W Madison St Skokie III DR 4-0340
 Cartrische Corp 3515 W Touhy Ave Chicago 45 III OR 3-7505
 Carver Inc Fred S 1 Chatham Rd Summit N J CR 3-8120
 Cascade Research Corp 53 Victory Lane Los Gatos Calif EL 4-9900
 Cash Valve Mfg Corp A W P O Box 191 Decatur III 28574
 Caterpillar Tractor Co Peoria III
 Cavitron Elertron Oscillator Co Div Short Wave Plastic Forming 355 N Newport Blvd Newport Beach Calif LI 8-6123
 C B C Electronics Co 2601 N Howard St Philadelphia 33 Pa GA 3-2797
 CBS-Hyltron Div Columbia Broadcasting System 100 Endriott St Danvers Mass SP 4-2360
 CBS-Hyltron Semiconductor Div 900 Chelmsford St Lowell Mass GL 4-0446
 CDC Control Services Inc 404 S Warmiuster Rd Hahorbo Pa OS 5-4100
 Cedar Eng'g Inc 5806 W 36 St Minneapolis 16 Minn WE 9-7858
 CELCO Constantine Eng'g Labs Co P O Box 555 Mahwah NJ DA 7-1123
 C E M Co 24 School St Danvers Conn PR 4-2411
 Centaur Studios 7657 Melrose Ave Hollywood 46 Calif WE 1-8154
 Centalab Div Elmer-Union 938 E Kerle Milwaukee 1 Wis WO 2-9200

See listing →

Central Coil Co 1720 W Luettt St Indianapolis 22 Ind ME 2-6344
 Central Electronic Mfrs Inc Sub Nuclear Corp of America 2 Richmond Pl Denville NJ RO 9-4200
 Central Electronics Inc 1247 W Belmont Ave Chicago 13 III FA 7-7460
 Central Portelain Co 511 Railroad St Columbiana Ohio IV 2-3313
 Central Research Labs Red Wing Minn DU R-3566
 Central Scientific Co 1700 Irving Park Rd Chicago 13 III WE 5-8600
 Central Scientific Co of Calif 1040 Martin Ave Santa Clara Calif CH 8-1601
 Central Scientific Co of Canada Ltd 146 Kendal Ave Toronto 40 Canada WA 3-2421
 Central Screw Co 3501 Shields Ave Chicago 9 III

ALPHABETICAL LISTING of MANUFACTURERS with LOCALIZER INDEX

Central Div. Globe-Union, 938Y E. Keefe, Milwaukee 1, Wis. WO 2-9200
 President: Wm. S. Parsons
 General Sls. Mgr.: Walter Peck
 Assistant Gen. Sls. Mgr.: Bruce E. Vinkemulder
 Mgr. International Div.: Douglas E. Thatcher
 Sls. Mgr. Ceramic Capacitor: John Fruston
 Sls. Mgr. Mech. Electronic Products: James A. Hannan
 Sls. Mgr. Distr. Div.: Gerry Mills
 Assistant Sls. Mgr.:
 Variable Resistors: Edward Wagener

Switches: Robert N. Cleary
 Capacitors: George Gass
 Ceramics: Harvey Schmit
 Packages Electronic Circuits: Earl Clemick
 Semiconductor: Bruce E. Vinkemulder

International Div.: Paul R. Lamboley
 Adv. Mgr.: Frank Aptide

PRODUCTS:

Ceramic Capacitors: Tubulars, discs, feed-thrus, trimmers, resistor-capacitor combinations, transmitting, flat plates, precision, high voltage and specials
 Variable Resistors: Both composition and wirewound
 Switches: Rotary, lever, slide, tune, heavy duty, and subminiature
 Packaged Electronic Circuits: Radio and TV circuits, computer circuits, printed trimmer resistors, and all other units where resistance, resistance, and wiring is to be incorporated

Ceramic Products: High alumina (available in 85% and 95% bodies) and Steatite—both available in unmetallized or metallized bodies
 Semi-Conductors: Ultra-miniature transistor amplifiers for miniature high-gain audio amplifier applications

CALIFORNIA: San Francisco—IDS—Logan Sales Co., 154 Eighth St., Hemlock 1-692
 Beverly Hills—Walter S. Harmon Co., P. O. Box 1380, Olympia 2-5616
 Los Angeles—DS—Richard S. Stone Sales Co., 8971 National Blvd., Texas 0-6973

COLORADO: Denver—IDS—McLoud & Raymond Co., 5403 E. Evans, Skyline 6-1880

GEORGIA: Atlanta—IDS—Frank Nickerson, 1202 Zimolite Rd., N.E., Trinity 5-3008

ILLINOIS: Chicago—IDS—F. L. Tieggs & A. A. MacDonald, 5308 W. Diversey, Palmside 5-5386; DS—Earl T. Chamblin, 6459 N. Sheridan Rd., Ambassador 2-4574

INDIANA: Indianapolis—IDS—L. M. DeVoe Co., 4010 Washington Blvd., Atwater 3-1385

IOWA: Cedar Rapids—IDS—Jerry Vebik, 615 Guaranty Bldg., Empire 4-0833

MASSACHUSETTS: Needham—IDS—Stanley A. Harris Co., 317 Chestnut St., Hillcrest 4-4780, -81

MICHIGAN: Detroit—IDS—R. C. Merchant, 18411 W. McNichols Rd., Kenwood 5-6000

MINNESOTA: Minneapolis—IDS—Merrill K. Franklin, 338 E. Franklin, Federal 6-2315-1805

MISSOURI: Kansas City—IDS—E. W. McGrade, Box 8876, Prairie Village Station, Randolph 2-0758
 St. Louis—IDS—Theodore B. Lowell, Box 21, Normandy Branch, Evergreen 5-7803

NEW JERSEY: Jersey City—IS—D. P. Galasso, 821 Bergen Avenue, Oldfield 8-7277, Digby 4-1763

NEW YORK: New York City—DS—James M. Pickett, 205 E. 66th St., Trafalgar 9-9200
 Dewitt—IS—George P. Marron, The Kallouch Bldg., 4455 E. Genesee, Gilson 6-1974; Phelps & Amsterdam—DS—LeRoy & McGuire, Inc., R. D. No. 2, Phelps Kingswood 8-4891, R. D. No. 4, Amsterdam, Victor 2-5979

OHIO: Brecksville—IS—Allen Nace Co., 7601 Parkview Rd., Jackson 6-4323
 Cleveland—DS—F. A. Daugherty & Co., 1120 Croyden Blvd., Hillcrest 2-3311

PENNSYLVANIA: Philadelphia—Except Philadelphia IDS—S. K. MacDonald, Inc., 1531 Spruce St., Kingsley 6-1205

Narberth—IS—Jerome Hresson, 246 Haverford Ave., Mohawk 4-4572-73

TENNESSEE: Memphis—IDS—Al E. Engelman, 3205 Crump Avenue, Glendale 8-6263

TEXAS: Dallas—IS—Robert E. Nesbitt, 1825 Cedar Springs, Riverdale 7-5824

WASHINGTON: Seattle—IDS—J. J. Hucker Co., 221 Galer St., P. O. Box 9077, Atwater 3-6470

CANADA: Toronto—IS—P. J. Heenan Co., 804 Mt. Pleasant Rd., Hudson 1-2281; Toronto—DS—R. C. Kuhnert, 73 Crookford Blvd., Plymouth 7-5171

Vancouver—IDS—D. E. McLennan, 1624 W. Third Ave., Bayview 2898

HAWAII: Honolulu—IDS—Hastin & Browne, P. O. Box 2088-99810

Central Transformer Co 910 W Jackson Blvd Chicago 7 III TA 9-1936

Centronic Inc 34 Oleander St Cocoa Fla 2040

Century Coil Corp 1534 N Clybourn Ave Chicago 10 III Century Electric Co 1906 Pine St St Louis 3 Mo CE 1-4920

Century Electronics Co 34 Oleander St Cocoa Fla 2040

Century Electronics & Instruments Inc 1333 N Utica Ave Tulsa 10 Okla LU 4-7111

Century Lighting Inc 521 W 43 St New York 36 NY CH 4-7050

Century Plating Co 229 Ferris Ave White Plains NY WH 8-3777

Century Protector Corp 729 7 Ave New York 19 NY CI 5-7048

Ceramaseal Inc P O Box 25 New Lebanon Center NY WL 3-5851

Ceramtronics Inc 364 Highland Ave Passaic N J GR 3-8274

Cerro De Pasco Sales Corp 300 Park Ave New York 22 NY MU 8-8322

Certified Radio Labs 5507 13 Ave Brooklyn 19 NY GE 9-4080

CG Electronics Corp 1500 Central Ave Albuquerque New Mex AL 6-9858

CGS Laboratories Inc Routes 7 & 35 Ridgefield Conn ID 8-2317

Chaco Co W M 1600 Beard Ave Detroit 9 Mich VI 2-7400

Champion Lamp Works 330 Lynnway Lynn Mass LY 3-2000

Chance Vought Aircraft Inc P O Box 5907 Dallas Tex AN 2-3211

Channel Master Corp Ellemville NY 1300

Chase Brass & Copper Co 236 Grand St Waterbury 20 Conn PL 6-9444

Chase Mfg Co 329 W Washington Pasadena Calif RV 1-9800

Chase-Shawmut Co 374 Merrimac St Newburyport Mass HO 2-6662

Chase & Sons 26 Spruce St N Quincy Mass PR 3-5100

Chassis Trak Inc 525 S Webster Ave Indianapolis 19 Ind FL 9-5407

Chatham Controls Corp 33 River St Chatham N J ME 5-8892

Chatham Electronics Div Gera Corp W Mt Pleasant Ave Livingston NJ LI 6-1100

Chatillon & Sons John 85 Cliff St New York 28 W Y GE 3-2552

Chattin Eng'g Associates 1401 Middle Harbor Rd Oakland 20 Calif HI 4-4209

Chemalloy Electronics Corp Gillespie Airport Santee Calif HI 4-7661

Chemical Commerce 165 Clifford St Newark 5 NJ MI 2-1457

Chemical Process Co 1901 Spring St Redwood City Calif EM 9-0071

Chemical Products Corp King Philip Rd E Providence 14 R I GE 4-1770

Chemo-Textiles Inc P O Box 169 W Warwick R I VA 1-4121

Cherry Electrical Products Corp 1650 Deerfield Rd Highland Park III ID 2-8182

Chesapeake Instrument Corp Shadyside Md UN 7-2151

Chester Cable Corp 1000 Too St Chester NY CH-2221

Chester Norton Electronics Corp 10 St & Morton Ave Chester Pa CH 3-8584

Chicago Aerial Industries Inc 1980 N Hawthorne Ave Melrose Park III ES 9-1322

Chicago-Allis Mfg Corp 113 N Green St Chicago 7 III MO 6-5050

Chicago Condenser Corp 3255 W Armitage Ave Chicago 47 III CA 7-7070

Chicago Electronic Eng'g Co 3223 W Armitage Ave Chicago 47 III CA 7-3130

Chicago Electronic Labs 1222 W Madison St Chicago 7 III TA 9-1818

Chicago Gasket Co 1271 W North Ave Chicago 22 III HU 6-3060

Chicago Industrial Instrument Co B65 N Sangamon St Chicago 22 III TA 9-0234

Chicago Magnetic Control 1616 N Damen Ave Chicago 47 III AN 6-7400

Chicago Miniature Lamp Works 1500 N Ogden Ave Chicago 10 III MO 4-1741

Chicago Rivet & Machine Co 950 S 25 Ave Bellwood III LI 4-5100

Chicago Screw Co Div Standard Screw Co 2701 Washington Blvd Bellwood III ES 8-7400

Chicago Standard Transformer Corp 3501 W Addison St Chicago 31 III IN 3-7400

Chicago Steel Furnace Co 9326 S Anthony Ave Chicago 28 III RE 1-0280

Chicago Telephone of Calif 105 Pasadena Ave S Pasadena Calif CL 5-7186

Chicago Telephone Supply Corp 1142 W Beardsley Ave Elmhurst Ind 3-0310

Christianson Co C B 164 Pennington St Newark 5 NJ MA 3-4979

Christie Electric Corp 3410 W 67 St Los Angeles 43 Calif PL 3-2607

Chromatic TV Labs West Coast Devel Lab 1476 66 St Emeryville DL 8-3831

Chromatic TV Labs 1501 Broadway New York 36 NY BR 9-8700

Chromium Corp of America P O Box 1229 Waterbury 20 Conn PL 4-3141

Chrono-Log Corp P O Box 4587 Phila 31 Penna LO 7-5178

C & H Supply 415 E Beach Inglewood Calif OR 8-4181

Chu Associates P O Box 387 Whitcomb Ave Littleton Mass GL 6-3282

Churchill Lighting Corp 334 Franklin St Melrose 76 Mass ME 4-4700

Ciba Co Plastics Div Kimberlin Pa WE 3-5886

Cinch Mfg Corp 1026 S Homan Ave Chicago 24 III NE 2-2000

Cinch-Jones Sls Div Cinch Mfg 1026 S Homan Chicago III Nevada 2-2000

Cinch-Jones Sls. Div. Cinch Mfg., 1026 S. Homan, Chicago, Ill., Nevada 2-2000

President: Lester W. Tarr

Executive Vice President and General Manager: E. J. Pool

Vice President Sales: S. Pfannstiel

Vice President and Development Engineer: S. M. Del Camp

Vice President: H. F. Butts

Vice President Finance: E. L. Hvale

Purchasing Agent: T. A. Hopkins

Advertising Manager: C. W. Nelson

Export Manager: Carrington H. Stone

Traffic Manager: T. A. Hopkins

Sales Manager: C. W. Nelson

Plastics Engineer: G. F. Mangin

ATLANTA: Cartwright & Bean, 3223 Cain's Hill Place, N.W. Cedar 7-2279

BOSTON: Ray Perrin & Co., 1870 Centre St., Fairview 3-1048

CHICAGO: B. F. Becker covers Wisc; P. G. Tomy covers Iowa-Minn.

CLEVELAND: Scott & Steffen, Inc., 1836 Euclid Ave., Tower 1-2826

DETROIT: Cinch-Jones Sales Div., 2842 E. Grand Blvd., Trinity 3-9500

KALAMAZOO: Cinch-Jones Sales Div., 5066 Lake Forest Dr., Phone Fireside 5-5846

LOS ANGELES: Cinch-Jones Sales Div., 1709 W. Eighth St., Du'Nkir 6-9691

MEMPHIS: Cartwright & Bean, 1836 Madison Ave., Phone Broadway 5-1914

NEW YORK: J. S. Giampiccolo, 475 Fifth Ave., Murray Hill 3-8529

PITTSBURGH: Office moved to Baltimore

PHILADELPHIA: S. K. MacDonald, Inc., 1531 Spruce St., Kingsley 5-1205

BALTIMORE: S. K. MacDonald, Inc., 2016 Winford Rd., Baltimore 14

WASHINGTON, D. C.: S. K. MacDonald, Inc., 3308 14th St., N.W., Columbia 3938

HAMILTON, ONT.: Cinch-Jones Sales Div., Gage Ave. & Beach Rd., Liberty 4-5791

Cincinnati Time Recorder Co 1733 Central Ave Cincinnati 14 Ohio CM 1-1995

Cinema Eng'g Div Aerovox Corp 1100 Chestnut St Burbank Calif VI 9-5511

Cinema-Television Ltd Worsley Bridge Rd Lower Sydenham-London 5 E 26 England Hither Green 4600

Cinematic Developments 2125 32 Ave San Francisco 16 Calif MO 4-2435

Circon Component Co Santa Barbara Municipal Airport Goleta Calif WO 8-2011

ALPHABETICAL LISTING of MANUFACTURERS with LOCALIZER INDEX

Circuit Instruments Inc P O Box 1438 St Petersburg 1 Fla DI 2-8051
 Cir-Pak Co 32-44 Francis Lewis Blvd Flushing 58 NY
 City Chemical Corp 132 W 22 St New York 11 NY
 WA 9-2723
 City Marking Devices Corp 12 Spruce St New York
 38 N Y BE 3-8720
 Claxton Corp 50 W 26 St New York 10 NY WA
 9-1668
 Claxton Fan Co Kalamazoo Mich FI 9-1541
 Clare & Co P 3101 Pratt Blvd Chicago 45 III
 AM 2-7700
 Claremont Tube Corp 36-02 35 Ave Long Island
 City 6 N Y
 Clark Controller Co 1146 E 152 St Cleveland 10
 Ohio WL 1-2000
 Clark Crystal Co 2 Farm Rd Marlboro Mass 1411
 Clark Electronic Labs Box 165 Palm Springs Calif
 8-3011
 Clarestal Mfg Co Washington St Dover N H SH
 2-120
 Clary Corp 408 Junipero St San Gabriel Calif AT
 7-6111
 Clauss Cutlery Co 223 Prospect St Fremont Ohio
 FE 2-7344
 Clear Beam Antenna Corp 21341 Roscoe Blvd Canoga
 Park Calif DI 7-2255
 Clearprint Paper Co 1482 67 St Emeryville Calif
 OL 2-4762
 Clearview Co 172 Stanton St New York 2 N Y OR
 3-0758
 Clegg Labs Div Clegg Inc Ridgevale Ave Morristown
 N J JE 8-7214
 Cletron Inc 1974 E 61 St Cleveland 30 Ohio EX
 1-3834
 Cleveland Container Co 6201 Barberton Ave Clevel-
 and 2 Ohio OL 1-4500
 Cleveland Electronics Inc 1974 E 61st St Cleveland
 3 Ohio EX 1-3834
 Cleveland Instrument Co 735 Carnegie Ave Cleveland
 15 Ohio PR 1-7070
 Cleveland Metal Specialties Co 1783 E 21 St Clevel-
 and 14 Ohio PR 1-4186
 Cleveland Wire Cloth & Mfg Co 3573 E 78 St Clevel-
 and 5 Ohio DI 1-1832
 Cleveite Corp Texas Div 3732 Westheimer Rd Houston
 Texas MO 7-2425
 Cleveite Harris Products Inc 6545 Carnegie Ave
 Cleveland 3 Ohio EN 1-3200
 Cleveite Transistor Products 241 Crescent St Waltham
 MA Mass TW 4-9330
 Cleveite Electronic Components Div of Cleveite Corp
 3311 Perkins Ave Cleveland 14 Ohio

Cleveite Electronic Components, Div. of
 Cleveite Corp., 3311 Perkins Ave.,
 Cleveland 14, Ohio

Phone: ENdicott 1-1730

General Sales Manager: M. R. Eastin
 Product Sales Manager: R. M. Jewitt

CALIFORNIA-ARIZONA: 4031 63rd
 St., Newport Beach, Calif., ORiole
 5-0822, Sales Engineer, Resinald
 Duncumb

COLORADO-UTAH-NEW MEXICO:
 Rep.—Brooks Feeger & Morrow,
 114 San Pedro, S. E., Albuquer-
 que, N. M., 8-1724; E. P. Brookes,
 P. O. Box 3255 E. Colfax Branch,
 Denver, Colo., ALpine 5-1196,
 P. A. Feeger

Clifton Precision Products Co 9014 West Chester Pike
 Upper Darby Pa MA 6-2101
 Clippard Instrument Lab 7390 Colerain Ave Cincin-
 nati 39 Ohio JA 1-4261
 Clough-Brenite Co 6014 Broadway Chicago 40 III
 AM 2-2200
 Clowes Ceramic Corp 3711 Calhoun Ave Chattanooga
 7 Tenn TA 13571
 Coast Coil Co 5333 W Washington Blvd Los Angeles
 Calif WE 6-6188
 Coaxial Connector Co 37 N 2 Ave Mt Vernon N Y
 MO 8-6417
 Conant Inc 18-24 Passaic Ave Caldwell N J CA 6-
 5675
 Cohan Epner Co 142 W 14 St New York 11 N Y
 CH 3-3411
 Cohn Corp Sigmund 121 S Columbus Ave Mount Ver-
 non N Y MO 4-5300
 Coil Company of America 212 Washington St North-
 wale N J CL 5-3434
 Coilcraft Inc Cary III ME 9-2361
 Coil Eng'g & Mfg Co Roanoke Ind
 Coils Electronics Co 2939-49 N 2nd St Phila 33 Pa
 RE 9-6465
 Coil Winders Inc New York Ave Westbury LJ NY
 ED 4-3170
 Coil Winding Equipment Co 19 Maxwell Ave Oyster
 Bay NY OY 6-1285

Colber Corp 26 Buffington St Irvington 11 NJ ES
 5-3004
 Colburn Lab GW 164 N Wacker Dr Chicago 6 III
 DE 2-6286
 Coleman Cable & Wire Co 3919 Wesley Terr Schiller
 Park III WA 5-6215
 Coleman Eng'g Co 6040 W Jefferson Blvd Los An-
 geles 16 Calif TE 0-6931
 Coleman Instruments Inc 318 Madison St Maywood
 III FI 3-8574
 Cole Radio Works 86 Westville Ave Caldwell NJ
 Collectron Corp 216 E 45 St New York 17 NY MU
 2-8975
 Collins Electronics Mfg Corp Stevensville Md MI
 3-4661
 Collins Radio Co 855 35 St N E Cedar Rapids Iowa
 EM 3-0281
 Colman Tool & Machine Co 1017 N E 3 Ave Amarillo
 Texas DR 2-7422
 Colonial Alloys Co Ridge Ave & Crawford St Phila-
 delphia 29 Pa GE 8-2272
 Colonial Insulator Co 945 Grant St Akron 11 Ohio
 PR 3-6511
 Colorado Research Corp 4697 E Evans Ave Denver 22
 Colo SK 6-8327
 Columbia Electric Mfg Co 4519 Hamilton Ave Clevel-
 and 14 Ohio EN 1-8060
 Columbia Metal Box Co 260 E 143 St New York 51
 NY LU 5-2525
 Columbia Products Co 6625 Shakespeare Rd Columbia
 SC 3-7031
 Columbia Records Div Columbia Broadcasting System
 799 7 Ave New York NY CI 5-7300
 Columbia Research Labs MacDade Blvd & Bullens La
 Woodlyn Pa LE 2-1966
 Columbia Tape Mills Bank St E Greenville Pa
 Columbia Technical Corp 61-02 31 Ave Woodside 77
 NY AS 8-7401
 Columbia Wire & Supply Co 2850 Irving Park Rd
 Chicago 18 III CO 7-3160
 Columbian Carbon Co Maxico Color Unit 380 Madison
 Ave New York 17 NY MU 7-2300
 Columbus Process Co 2850 Southeastern Ave Colum-
 bus Ind 2-4-49
 Column Machine Co 87 State St Lynn Mass LY 3-
 0775
 Colvin Labs Inc 364 Glenwood Ave E Orange NJ
 OR 7-1221
 Comac Instrument Co 66-11 99 St Forest Hills 74
 NY IL 9-6941
 Comar Electric Co 3349 Addison St Chicago 18 III
 JU 8-2410
 Comar Products Box 776 Butler N J BU 9-1780
 Commercial Filters Corp 2 Main St Melrose 76 Mass
 DA 4-7000
 Commercial Controls Corp Sub Friden Calculating
 Mach 1 Lehigh Ave Rochester 2 NY BU 8-1600
 Commercial Radio Monitoring Co P O Box 7037 Kan-
 sas City 13 Mo JA 3-5302
 Commercial Radio Sound Corp 652 1 Ave New York
 16 NY OR 9-0400
 Commercial Telecast Networks Inc 608 5th Ave New
 York 20 N Y CI 5-8820
 Communication Accessories Co U S 50 Hwy Lees
 Summit Mo SB 1-1700
 Communication Equipment & Eng'g Co 5646 W Race
 Ave Chicago 44 III ES 8-3109
 Communication Measurements Labs 350 Leland Ave
 Plainfield NJ PL 4-5502
 Communication Products Co Marlboro NJ FE 8-1880
 Communications Co 300 Greco Ave Coral Gables Fla
 HI 6-0846
 Community Eng'g Corp Box 874 State College Pa
 AD 7-7221
 Compact Controls Co 1635 Halsted St Chicago 14
 III WH 4-2432
 Compo Corp 2251 W St Paul Ave Chicago 47 III
 EV 4-1000
 Component Mfg Service Inc 1 Component Pl W
 Bridgewater Mass JU 8-0163
 Compton Corp 778 Pleasant St Belmont 79 Mass
 IV 1-8954
 Computer Control Co 92 Broad St Wellesley 57 Mass
 WE 5-6220
 Computer Eng'g Associates 350 N Halsted St Pasa-
 dena 8 Calif EL 5-7121
 Computer Instruments Corp 92 Madison Ave Hamp-
 stead NY IV 3-8200
 Computer-Measurements Corp 5528 Vineland Ave
 N Hollywood Calif ST 7-0401
 Computing Devices of Canada Ltd P O Box 508
 Ottawa Ontario Can PA 8-1761
 Com Tronics Inc 3409 Venice Blvd Los Angeles 19
 Calif RE 4-6338
 Conant Labs 6500 O St Lincoln 5 Nebr 2-5774
 Concert Hall Society 71 S Ave New York 3 NY
 AL 5-5156
 Condenser Machinery Co 28 Harbor St Stamford Conn
 FI 8-5394
 Condenser Mfrs Inc 1018 Pearl St Nashville Tenn
 AL 6-1429
 Condenser Products Div New Haven Clock & Watch
 Co 140 Hamilton St New Haven 4 Conn MA 4-1174
 Con-Elco 1711 S Mountain Ave Monrovia Calif
 Conn Hard Rubber Co P O Box 1911 New Haven 9
 Conn SP 7-3631
 Conn Ltd C G 1101 E Beardsley Ave Elkhart Ind
 3-3350
 Conn Marine Instrument Co Essex Conn SO 7-8960
 Conn Organ Corp 555 E Jackson Blvd Elkhart Ind
 2-2890
 Conn Telephone & Electric Corp 70 Britannia St
 Meriden Conn BE 5-7941
 Connector Corp 6027 N Keystone Ave Chicago 30
 III KE 9-3108

Connector Corp of America 3223 Burton Ave Bur-
 bank Calif VI 9-2129
 Conotow Corp 2100 Arch St Philadelphia 3 Pa LO
 7-7560
 Conrac Inc 19217 E Foothill Blvd Glendora Calif
 ED 5-1241
 Conrad Inc 141 Jefferson St Holland Mich 3161

Conrad, Inc., Subsidiary of Crampton
 Mfg. Co.
 141 Jefferson St., Holland, Mich.
 Phone EXport 2-3161
 General Sales Manager—Chas. F.
 Conrad
 Factory Application Engineer—M. D.
 Armstrong
 P. O. Box 294, Toledo, Ohio

NEW YORK CITY—R. N. Alden, 21
 Park Pl., HArley 7-7838 or Box
 278, Kent, Conn., WAlker 7-3319

TORONTO—Donald F. Beechy, 290
 Lawrence Ave. West, RUssell 7-
 3861

SALT LAKE CITY—Harvey Durrant,
 Mel Pearson & Co., 200 Canyon Rd.

CHICAGO—Bill Nonstrand, 5829 W.
 Belmont, AVenue 3-6111

DENVER—Don Pearson, Mel Pearson
 & Co., 1011 S. Josephine, SPurce
 7-7878—or Mel Pearson, FAX, Den-
 ver, Colo.

PASADENA, CALIF.—E. A. Wright,
 Suite 25, 3848 E. Colorado Blvd.,
 RYan 1-0181

DALLAS—W. N. Wright, Wright In-
 dustrial Products, 5738 N. Central
 Expressway, TAYlor 4-2571

HOUSTON—Wright Industrial Prod-
 uct, 1805 Calumet St., JACKson
 3-5651

CLEARWATER, FLA.—W. Ben Wim-
 berly, W. Ben Wimberly Co., 632
 S. Fort Harrison Ave., 3-7072

Conrad & Moser 2 Borden Ave Long Island City 1
 NY ST 4-3616

Consolidated Avionics Corp 800 Shames Dr Westbury
 N Y ED 3-8400
 Consolidated Controls Corp 4 Durant Ave Bethel Conn
 PI 3-6721

Consolidated Electrodynamics Corp 300 N Sierra
 Maire Villa Pasadena Calif SY 6-9381

Consolidated Diesel Electric Corp 880 Canal St Stam-
 ford Conn DA 5-2261

Consolidated Electrodynamics Corp Rochester Div
 1775 Mt Read Blvd Rochester 4 NY GL 3-7972

Consolidated Electronic Industries 100 E 42 St New
 York 17 NY

Consolidated Mining & Smelting Co of Canada Ltd
 Metal Sls Div W Montreal Que Canada AV 8-3103

Consolidated Molded Products Corp 309 Cherry St
 Scranton 2 Penna DI 2-7886

Consolidated Productions Inc Broward Int'l Airport
 Ft Lauderdale Fla JA 2-8551

Consolidated Resistance Co of America 44 Prospect
 St Yonkers 1 NY YO 3-5900

Consolidated Vacuum Corp 1775 Mt Read Blvd
 Rochester 4 NY

Consolidated Wire & Associated Cos 1635 S Clinton
 St Chicago 16 III HA 1-4441

Constad Labs 85-02 162 St Jamaica NY JA 6-5555

Constantin & Co C L Route 8, Lodi NJ Gr 1-0100

Consumer Industrial Products P O Box 128 Cuyahoga
 Falls Ohio WA 8-0113

Contact Inc Waynard Mass TW 7-2642

Contacts Inc 1100 Silas Deane Hwy Wethersfield 9
 Conn JA 9-3386

Continental Can Co Inc 100 E 42nd St New York 17
 N Y OX 7-1200

Continental Connector Corp 34-63 56 St Woodside 77
 NY TW 9-4422

Continental-Diamond Fibre Corp Newark Dela EN
 8-8531

Continental Electric Co Taylor Tubes Inc 5 N Mich-
 igan Ave Chicago 2 III FI 6-1433

Continental Electric Co 325 Ferry St Newark 5 NJ
 MI 2-4050

Continental Elec Equip Co 205 W 4 St Cincinnati 1
 Ohio DU 1-7800

Continental Electronics Ltd 302 Oakland St Brooklyn
 22 NY EV 3-3331

Continental Electronics Corp 2724 Leonis Blvd Los
 Angeles 58 Calif LU 2-8101

Continental Electronics Ltd 302 Oakland St Brooklyn
 22 N Y EV 3-3331

Continental Electronics Mfg Co 4212 S Buckner Blvd
 Ohio DU 1-7800

Continental Screw Co 459 Mt Pleasant St New Bed-
 ford Mass WY 32621

Continental Wire Corp Box 363 Wallingford Conn
 CO 9-7718

Continental X-Ray Corp 1536 N Clyburn Ave Chicago
 10 III MI 7-3711

Control Circuits Inc 103 Court St Middletown Conn
 Control Corp 718 Central Ave N E Minneapolis 14
 Minn FE 5-7893

ALPHABETICAL LISTING of MANUFACTURERS with LOCALIZER INDEX

Control Data Corp 501 Park Ave Minneapolis 15 Minn FE 9-0947
 Control Div Magnetics Inc Box 391 Butler Pa 7-3787
 Control Electronics Co Inc 1925 New York Ave Huntington Sta N Y HA 7-7960
 Control Products Inc 306 Sussex St Harrison NJ HU 2-0213
 Controlled Atmosphere Enclosures Corp 230-11 141 Ave Springfield Gardens 13 LI NY LA 8-7811
 Controls For Radiation Inc 170 Alewife Brook Pkwy Cambridge 40 Mass UN 4-8280
 Controls Co of America 3555 Soreng Ave Schiller Park Ill
 Control Specialists Inc 115 E Arbor Vitae St Inglewood 1 Calif OR 8-4688
 Control Specialty Corp 1515 Spring Houston 5 Texas CA 5-5200
 Convar-San Diego P O Box 1950 San Diego 12 Calif Conk Ceramic Mfg Co Prospect St Trenton NJ EX 3-4135
 Cook Electric Co 2700 Southport Ave Chicago 14 Ill DI 8-6700
 Cook Co Frank R 36 S Santa Fe Dr Denver 23 Colo SH 4-1753

Frank R. Cook Company
 86 S. Santa Fe Drive
 Denver 23, Colorado
 Tel: SHERMAN 4-1753

Operations Manager—Walter N. Lundahl

Chief Engineer—John L. Devitt

Western Region—D. K. MacLennan
 921 Westwood Blvd.
 Los Angeles 24, Calif.
 GRANITE 9-2340

Dayton, Ohio—George H. Selvin
 225 N. Wilkinson St.
 FULTON 5042

Washington D. C.—Arthur F. Cutton
 927 15th St. N. W.
 STERLING 3-3087

Colorado—New Mexico—R. Allen Price
 4611 Homestead
 Littleton, Colorado
 PY 4-2902

Cook Labs Inc 101 2 St Stamford Conn FI 8-7578
 Cook Research Labs P O Box 696 Menlo Park Calif EM 8-3329
 Co-operative Industries Inc 100 Oakdale Rd Chester NJ CN-255
 Cooper Co D C 1467 S Michigan Ave Chicago 5 Ill HA 7-8046
 Cooper Electronics Inc 5637 Tulip St Philadelphia 24 Pa JE 5-7792
 Cooper & Son Joseph B 25 W 47th St New York 36 N Y JU 2-3095
 Coors Porcelain Co 600 9th St Golden Colo CR 9-2536
 Cooperweld Steel Co Wire and Cable Div Glassport Pa NO 4-7131
 Corbett Science Labs F W 3117 Venice Blvd Los Angeles 19 Calif RE 3-5251
 Corbin Corp 5419 56 Pl Riverdale Md AP 7-7676
 Corford & Co Carl 104 Liberty Ave Mineola N Y NY 7-5150
 Corde Limited Div Essex Wire Corp 121 Dodge Ave DeKalb Ill 6-2721
 Cornelius Co 550 39 Ave N E Minneapolis 21 Minn SU 8-8613
 Cornell-Dubilier Electric Corp 333 Hamilton Blvd S Plainfield NJ PL 6-9000
 Cornish Wire Co 50 Church St New York 7 NY BA 7-5140
 Corona Eng'g Service 94-52 Corona Ave Elmhurst 73 NY IL 7-2777
 Corrugated Paper Products 2233 Utica Ave Brooklyn 34 NY ES 7-6112
 Corry-Jamestown Mfg Corp 43 N Center St Corry Pa 2-8221
 Corson Electric Mfg Corp 540 39 St Union City NJ UN 6-4227
 Cosa Corp 405 Lexington Ave New York 17 NY DR 9-3560
 Cosmic Condenser Co 853 Whittier St Bronx NY LU 9-3360
 Cosmic Radiation Labs 247 Blue Point Ave Blue Point LI NY EM 3-6139
 Cosmic Radio Corp 853 Whittier St New York 59 N Y LU 9-3360
 Cossor (Canada) Ltd 301 Windsor St Halifax Nova Scotia Canada
 Coto-Coil Co 65 Pavilion Ave Providence 5 RI WI 1-3355
 Couch Co Inc S H 3 Arlington St N Quincy 71 Mass BR 3-0074
 Coulter Electronics 5227 N Kenmore Chicago 40 Ill UP 3-2942
 Courter Products Div Model Eng'g & Mfg Inc N Lake St Boyne City Mich JU 2-6526

Cousing Inc 2107 Ashland Ave Toledo 2 Ohio CH 3-4208
 Cox & Co 115 E 23 St New York 10 NY DR 4-6727
 Craft Mfg Co 1615 Collamer Ave Cleveland 10 Ohio GL 1-1225
 Craft Labs 209 Ayliffe Ave Westfield NJ WE 2-5464
 Craig Systems Inc 90 Holten St Danvers Mass SP 4-1870
 Cramer Controls Corp Centerbrook Conn SO 7-8255
 Crane Packing Co 6400 Oakton St Morton Grove Ill DR 4-0100
 Crawford's of Beverly Hills 456 N Redra Dr Beverly Hills Calif BR 2-3231
 Creative Electronics Corp 94 Lincoln Ave Stamford Conn DA 3-8581
 Creative Plastics Corp Rt 25-A Stony Brook N Y ST 7-0921
 Crescent Co 20 Central Ave Pawtucket RI PA 2-3100
 Crescent Eng'g & Research Co 5440 N Peck Rd El Monte Calif GI 4-0528
 Crest Electronics Corp 20450 Old U S 12 Chelsea Mich GR 5-7953
 Crescent Insulated Wire & Cable Co 321 N Olden Ave Trenton 5 N J EX 6-9111
 Crest Transformer Corp 1834 W North Ave Chicago 22 Ill EV 4-1600
 Crittenden Transformer Works 1220 Nadeau St Los Angeles 1 Calif LU 8-6173
 Croname Inc 3701 Ravenswood Ave Chicago 13 Ill BT 8-7500
 Cro-Plate Co 747 Windsor St Hartford 1 Conn JA 7-8273
 Crosby Labs Inc Box 233 Robbins Lane Hicksville NY WE 1-3191
 Cross Co H 15 Beelman St New York 38 NY WO 2-2044
 Crown Controls Co 40 S Washington St New Bremen Ohio 2311
 Crown Engineering 3821 Commercial N E Albuquerque N M OI 4-1423
 Crown Industrial Products Co 713 Amsterdam Wood-street Ill 1900
 Crucible Steel Co of America P O Box 2518 Pittsburgh 33 Penna AT 1-3800
 Crown Inc 1138 Mission St S Pasadena Calif SY 9-7674
 Crystal-Westlake Corp Leoni Rd Lenni Mills Pa ME 6-5170
 C-Thru Ruler Co 827 Windsor St Hartford Conn CH 7-0182
 Cubic Corp 5575 Kearny Villa Rd San Diego 11 Calif BR 76780
 Cudner & O'Connor Co 4035 W Kinzie St Chicago 24 Ill VA 6-0200
 Cummins-Chicago Corp 4740 Ravenswood Chicago 40 Ill LO 1-6600
 Cunningham, Son & Co James 33 Litchfield St Rochester 8 NY BA 5-7240
 Curtis Development & Mfg Co 3296 N 33 St Milwaukee 16 Wis WI 5-1817
 Curtiss-Wright Corp Electronics Div 631 Central Ave Carlstadt NJ CE 8-4009
 Custom Components Inc P O Box 248 Caldwell NJ CA 6-3403
 Custom Gear Co 648 College St South Bend 28 Ind CE 4-5188
 Custom Scientific Instruments Inc 541 Devon St Kearny NJ KE 2-6403
 Cutler-Hammer Inc 315 N 12 St Milwaukee 1 Wis WA 1-7800
 Cutler Metal Products Co 1025 Line St Camden 3 N J WO 3-1060
 C W Mfg Co Box 2065 El Monte Calif
 Cycle Transformer Corp 356 Glenwood Ave E Orange 11 NJ OR 4-6731
 Cyclotron Specialties Co P O Box 1000 Moraga Calif DR 6-6772
 Daco Instrument Co Tillary & Prince Sts Brooklyn 1 NY UL 5-8350
 Daco Electric Co 67 N 2 St Beech Grove Ind ST 6-0458
 Daco TV Div Thompson Products W 10 St Michigan City Ind TR 2-1829
 Dahlstrom Metallic Dnwr Co Buffalo & 2 Sts James-ton NY 7991
 Dahlstrom Eng'g Inc 4641 Crenshaw Blvd Los Angeles 43 Calif PL 8-6000
 Dale Ration Co 2928 Nebraska Ave Santa Monica Calif EX 5-1087
 Dale Products Inc P O Box 136 Columbus Nebr
 De Lite Screen Co Warsaw Ind DI 2-9700
 Dalmine Lakt 5066 Santa Monica Blvd Los Angeles 90 Calif An 4-1961
 Dalmore Corp 47 Prospect St Woburn Mass WD 2-5390
 Dalmator Co Div Dalm Victor Co Div Taverton Ind 1375 Clay St Santa Clara Calif CH 3-0418
 Dalmatoron Co 534 Laurel St San Carlos Calif LV 4-1800
 Dalm Victor Co Div Taverton Inc 1515 Industrial Way Belmont Calif LV 1-1414
 Damon Recording Studios 117 W 14 St Kansas City 5 Mo VI 2-2585
 Damon-Chaser Inc Box 520 Hendersonville NC HE 6088
 Dano Inc P A 213 Broadway New York 7 NY WO 4-5344
 Danbury Knudsen Inc 15 Thore St Danbury Conn PI 8-3549
 Dano Electronic Labs Inc P O Box 209 Salem Mass
 Dano Electric Co Winsted Conn
 Dante Electric Mfg Co Bantam Conn JO 7-5307
 Darr Industries Inc Gyrn Dynamics Div 2151 E Rosecrans Ave El Segundo Calif OS 3-3381
 DATAmatic Corp 151 Needham St Newton Highlands 51 Mass DE 2-6860

Data Processing Corp 460 Cambridge Ave Palo Alto Calif DA 4-2723
 DataScan Inc 48 Notch Rd Little Falls N J CL 6-3214
 Daxex Div M Giannini & Co 1307 S Myrtle Ave Monrovia Calif EL 9-5381
 Datran Electronics 1836 Rosecrans Ave Manhattan Beach Calif OS 5-7131
 Daubert Chemical Co 333 N Michigan Ave Chicago 1 Ill AN 3-4342
 Daven Co Route 10 Livingston NJ LI 6-4300
 Davensport Mfg Co 1713 N Ashland Ave Chicago 22 Ill DI 2-5620
 Davies Molding Co Harry 1428 N Wells St Chicago 10 Ill MI 2-7240
 Davis & Co J W 9212 Denton Dr Dallas 35 Texas FL 2-8105
 Davis Electric Co 230 Spring Ave Cape Girardeau Mo ED 5-5547
 Davis-K-Products Co 135 W 29 St New York 1 NY LO 4-1978
 Davison Chemical Co Box 488 Pompton Plains NJ TE 5-3060
 Davison Chemical Co Erwin Tenn
 Daystrom Instrument Div Daystrom Inc Archbald Pa JE 1100
 Daystrom Pacific Corp Potentiometer Div 11150 La Grange Ave Los Angeles 25 Calif GR 8-3796
 Daystrom Pacific Corp 9320 Lincoln Blvd Los Angeles Calif
 Daystrom Pacific Corp 9320 Lincoln Blvd Los Angeles Calif OR 8-4212
 Daystrom-Weston Industries Div Daystrom Inc 753 Main St Poughkeepsie N Y GL 2-4000
 Dayton Aviation Radio & Equipment Corp P O Box 258 Troy Ohio FE 25513
 Dayton Corp 216 S Main St Dayton 2 Ohio
 Dazor Mfg Corp 4481 Duncan Ave St Louis 10 Mo JE 2-2400
 Deagan Inc J C 1770 W Berteau Ave Chicago 13 Ill LA 5-4364
 Dean & Benson Research Inc 16 Richmond St Clifton N J GR 1-1600
 Dearborn Electronic Labs Inc 1421 N Wells St Chicago 10 Ill WH 3-2412
 Dearborn Glass Co 6600 S Harlem Ave Bedford Park Argo Ill LU 5-0900
 Decatur Electronic Industries Corp 203 Orinoco Dr Brightwaters LI NY BA 7-6680
 Decimeter Products Co 730 Hooker St Denver 4 Colo MA 3-0726
 Decker Aviation Corp 1361 Frankford Ave Philadelphia 25 Pa GA 5-2300
 Decker Corp 45 Monument Rd Bala Cynwyd Penna MD 4-6700
 Decode Instrument Co Box 153 Caldwell N J CA 6-4258
 DeCoursey Eng'g Lab 11828 W Jefferson Blvd Culver City Calif EX 7-9668
 Dea Electric Co 1101 N Paulina St Chicago 22 Ill HU 6-7959
 Defender Instrument & Regulator Co Body Ill EL 2519
 DeFrance Eng'g & Microwave Corp Beverly Airport Beverly Mass WA 2-8100
 De Florez Co 116 E 30 St New York 16 N Y MU 6-5730
 Deitz Co S J 9 E Wesley St S Hackensack NJ HU 8-8516
 Delmar-Amsco Corp Electronic Sales Div 45-01 Northern Blvd Long Island City 1 NY AS 8-1040
 Delaware Products Co 300 Broadway Camden 3 NJ WD 6-2284
 Delco Appliance Div GMC P O Box 233 Rochester 1 N Y GL 3-3500
 Delco Radio Div GMC 700 Firmin St Kokomo Ind 2-8211
 Del Electronics Corp 521 Homestead Ave Mt Vernon N Y OW 9-3232
 Delavan Electronics Corp Roycroft Camaus E Aurora NY CV 9-6000
 Delta Chemical Works 23 W 60 St New York 23 NY PL 7-6317
 Delta Co 333 W 24 Pl Chicago 16 Ill VI 2-7100
 Delta Coils Inc 1128 Madison Ave Paterson 3 NJ WU 4-5878
 Delta Radio Co 115 Worth St New York 13 NY RE 2-6649
 Delttime Inc 679 Fayette Ave Mamaroneck NY MA 9-5800
 Deltron Inc 2905 N Leithgow St Philadelphia 33 Pa RE 9-1559
 Deltronic Corp 1507 Riverside Dr Los Angeles 31 Calif CA 2-0136
 Deming Indicator Co 1016 Acorn Dr Dayton 9 Ohio DeMornay-Bonardi Corp 780 S Arroyo Pkwy Pasadena Calif NY 1-7416
 Demuth Glass Works Inc P O Box 629 Parkersburg W Va AX 5-4511
 Denison Eng'g Div American Brake Shoe 1160 Dublin Rd Columbus 16 Ohio Hu 8-1191
 Denison Mfg Co 300 Howard St Framingham Mass TR 3-3511
 Dependable Printed Circuit Corp 827 Black Oak Ridge Wayne N J TE 5-2765
 Denzay Mfg Co 310 W Woodard St Denison Texas HD 5-2336
 Denzon Electronics Corp P O Box 122 Rockville Conn T: 5-5198
 Dechouze Studios Inc 782 Commonwealth Ave Boston 15 Mass BE 2-5722
 Deringer Metallurgical Corp 8131 Monticello Ave Skokie Ill KE 9-8502
 Derivation & Tabulation Associates 67 Lawrence Ave W Orange NJ
 De Rochemont Associates Inc Louis 380 Madison Ave New York 17 NY OX 7-0350

ALPHABETICAL LISTING of MANUFACTURERS with LOCALIZER INDEX

Design Tool Corp 80 Washington St New York 6 NY
WA 3-7466
Designers for Industry 4241 Fulton Pkwy Cleveland
9 Ohio
Detect-O-Ray Co 2622 N Halsted St Chicago 14 Ill
LA 5-8189
Detroit Controls Corp Great Meadows Rd & Honey-
port Rd Stratford Conn FO 8-3401
Detroit Controls Corp Norwood Controls Unit 934
Washington St Norwood Mass NO 7-4010
Deutsch Co 7000 Avalon Blvd Los Angeles 3 Calif
PL 1-4131
Deuschmann Corp Tobe Providence Hwy Norwood
Mass NO 7-2620
Devco Eng'g Inc P O Box 387 Caldwell NJ CA 6-
0610
Development Eng'g Co 9 Cross St Norwalk Conn
VO 6-7720
Devol Research Co Brookside Dr Greenwich Conn
Devtronics Inc 1995 Spruce St Trenton 8 NJ LY
0-2543
DeWald Radio Mfg Corp 35-15 37 Ave Long Island
City 1 NY ST 4-9333
Dewalt Chemical Co 62 Whittemore Ave Cam-
bridge 40 Mass TR 6-1400
DeWitt Development Co 3008 W 127 St Blue Island
Ill FU 8-2480
Dialight Corp 60 Stewart Ave Brooklyn 37 NY NY
7-760
Dial Products Co 9 Ave E Bayonne N J HE 7-0720
Diamond Antenna & Microwave Corp 7 North Ave
Wakefield Mass CR 9-4650
Diamond Coils Inc 540 39 St Union City NJ UN
7-6797
Diamond Drill Carbon Co 244 Madison Ave New York
16 NY LE 2-3006
Diamond Power Specialty Corp P O Box 415 Lancaster
Ohio
Diamond Tool Eng'g Co 106 Massachusetts Ave Bos-
ton 15 Mass CO 6-1630
Diamonite Products Mfg Co 1232 Cleveland Ave N W
Canton Ohio GL 6-8195
Dice Co J W 16 Highwood Ave Enlewood NJ LO
9-0471
Dicephone Corp 420 Lexington Ave New York 17
NY MU 4-4470
Die-Form Circuits Inc 6045 W Ogden Ave Chicago 50
Ill OL 6-0211
Diehl Mfg Co Funderne Ave Somerville NJ RA 5-2200
Dielect Inc Cedar & Gross Sts Fords NJ VA 6-6636
Dielectric Materials Co 5315 N Ravenswood Ave Chi-
cago 40 Ill LO 3-5833
Dielectric Products Eng'g Co Raymond Md CA 200
Dietz Co Henry G 12-16 Astoria Blvd Long Island
City 2 NY RA 6-3347
Dietz Design & Mfg Co Grandview 13 Mo SO 1-7216
Dietzen Co Emaene 2425 N Sheffield Ave Chicago Ill
LI 9-2300
Digital Equip Corp Maynard Mass TW 7-8821
Digitronics Corp 35-10 36 Ave Long Island City 6
NY EX 2-3405
Digitran Co 45 W Union St Pasadena Calif NY
1-9667
Dietrich Corp Allen Blvd Farmingdale LI NY CH
9-7999
Dieltron Div Gudeman Co 2669 S Myrtle Ave Mon-
rovia Calif RV 1-8631
Dimco-Gray Co 207 E G St Dayton 2 Ohio HE 6703
Dinco Coil Co Caledonia NY RR
Dirigo Comcoas & Instrument Co Boeing Field Box 37
Seattle 8 Wash LA 5940
Dit-Mec Inc Electronics Div 911 Broadway Kansas
City Mo HA 1-8484
Dittmore-Frimuth Corp 2517 E Norwich St Milwau-
kee 7 Wisc HU 3-7724
Division Lead Co 7742 W 61 St Summit Ill RA
5-8600
Dixon Corp Burnside St Bristol R I CL 3-7500
Dixon Crucible Co Joseph 167 Wayne St Jersey City
3 NJ DE 3-9000
Dimeter Mfg Co 22 Larkin Plaza Yonkers NY YO
9-1270
D & M Products 13144 W McNichols Rd Detroit 35
Mich UN 1-0802
Doall Co 254 N Laurel Ave Des Plaines Ill VA 4-1122
Dobekman Co 3301 Monroe St Cleveland Ohio ME
1-3500
Doelcam Div Minn-Honeywell 1400 Soldiers Field
Rd Boston 35 Mass
Dolino & Wilens Inc 1907 Summit Ave Union City
NJ UN 7-6630
Dolin Metal Products Inc 315 Lexington Ave Brooklyn
16 NY NE 8-9472
Dollar Co Robert Communications Equip Div 50
Drum St San Francisco 11 Calif EX 2-8454
Dollin Corp 636 S 21 St Irvington 11 NJ ES 4-3000
Don-Lan Electronics Co 1101 Olympic Blvd Santa
Monica Calif EX 4-0718
Donnelly Mfg Co 580 Winter St Waltham 54 Mass
TW 3-5700
Donner Scientific Co 888 Galindo St Concord Calif
MU 2-6161
Dormeyer Industries 3418 Milwaukee Ave Chicago 43
Ill AV 3-4000
Dorne & Margolin 29 New York Ave Westbury NY
ED 4-3200
Dossier Mfg Corp 249 Huron St Brooklyn 22 NY
EV 9-9020
Doty Acoustical Electronic Labs 431 Brome St New
York 13 NY EL 1-0202
Douglas Aircraft Co 3000 Ocean Park Blvd Santa
Monica Calif EX 4-3241
Douglas Instrument Labs 176 Norfolk Ave Boston 19
Mass HI 5-4836
Douglas Microwave Co 252 E 3 St Mt Vernon NY
MO 8-6500

Douglas Radio Labs 176 Norfolk Ave Boston 19
Mass HI 5-4836
Douglas Roesch Cable Div Hall-Scott Inc 2950 N
Ontario St Burbank Calif VI 9-3231
Doven Mach & Eng Inc 2706 W Van Buren St Chi-
cago 12 Ill SA 7-3355
Dow Chemical Co Midland Mich TE 2-2311
Dow Corning Corp Midland Mich TE 2-2371
Dow-Key Co Inc Rt 3 Hwy 59 Thief River Falls Minn
MU 1-3075
Downing Crystal Co 191 Shaffer Ave Westminster Md
WE 1192
Drake Electric Works 3654 N Lincoln Ave Chicago 18
Ill LA 5-6883
Drake Mfg Co 1713 W Hubbard St Chicago 22 Ill
CH 3-4462
Drakenfeld & Co B F 45 Park Pl New York 7 NY
BA 7-6809
Drakenfeld & Co B F Box 519 W Wylie Ave Wash-
ington Penna BA 5-5600
Dreier Bros Inc 7301 Woodlawn Ave Chicago 37 Ill
ND 7-3602
Dremel Mfg Co 2020 18th St Racine Wisc ME 2-8705
Dresen-Barnes Corp 250 N Vinado Ave Pasadena
Calif RV 1-0643
Dresser Electric Co 942 E Larned Detroit 7 Mich
WO 2-9484
Dresser-Ideco Co 875 Michigan Ave Columbus 8 Ohio
AX 9-2123
Driver Co Wilbur B 1875 McCarter Hwy Newark 4
NJ HU 2-5550
Driver-Harris Co Harrison NJ HU 3-4800
D & R Ltd 402 E Gutierrez St Santa Barbara Calif
WO 5-4511
Dry Screen Process Inc 1016 Madison Ave Pittsburgh
12 Pa FA 1-5255
D & S Mfg Co 424 Burk Ave Ridley Park Pa
FUBK Sales Corp 225 Franklin Ave Hewlett NY
RH 4-5600
Du-Co Ceramics Co Box 278 Saxenburg Pa IL 2-1511
Dudek & Co R C 407 N Maple Dr Beverly Hills Calif
BR 2-8097
DuKane Corp St Charles Ill ST-2300
Dunham Airplane & Marine Instruments Inc 15 Wil-
liam St New York 5 NY WA 2-6130
Du Mont Labr Inc Allen B 760 Bloomfield Ave Clifton
NJ MU 4-7400
Dumont Labs Allen B Industrial Tube Sales 2 Main
Ave Passaic NJ MU 4-7400
Dumore Co 1300 17 St Racine Wisc ME 3-8221
Dunham-Bush Inc W Hartford Conn CH 9-8671
Dunlap Electronics 764 9 St Des Moines 14 Iowa
AT 8-0801
Dunlee Corp 4558 W Congress St Chicago 24 Ill
NE 2-3418
Dunn Eng'g Associates 225 O'Brien Hwy Cambridge
39 Mass UN 4-0400
Dunton Co M W 7 Goff St Providence RI DE 1-3600
Dunton Co Locust St Keyport NJ KE 7-1501
Du Pont De Nemours & Co E 1 Wilmington 98 Dela
DE 4-5121
Durable Rubber Products 609 W Lake St Chicago 6
Ill RA 6-3322
Dura Kool Inc 1010 N Main St Elkhart Ind 3-3160
Duralith Corp 1025 Race St Philadelphia 7 Pa WA
3-1900
Durawark Inc P O Box 231 Port Washington NY
PO 7-3232
Duramic Products Inc 262 72 Mott St New York 12
N Y WA 5-1644
Durant Mfg Co 1950 N Buffum St Milwaukee 1 Wisc
LU 2-5035
Durez Plastics Div Hooker Electrochemical Co 1926
Walcott Rd Niagara Falls NY LU-1860
Duro Specialty Co 811 Boston St Lynn Mass LY B-
3479
Dwyer Eng'g Co Pine St Ext Nashua NH TU 3-3206
DX Radio Products Co 3900 W Armitage Ave Chicago
47 Ill AR 6-3740
Dyna Co 617 N 41st St Philadelphia 31 Pa EV
6-9405
Dyna Inc 395 Page Mill Rd Palo Alto Calif DA
6-1755
Dyna-Empire Inc 1075 Stewart Ave Garden City LI
NY PI 1-2700
Dynamics Development Labs Inc 11941 Wilshire Blvd
Los Angeles 25 Calif GR 7-6786
Dynamic Air Eng'g Inc 7412 Maie Ave Los Angeles 1
Calif LU 8-3292
Dynamic Div Easton Mfg Co 3307 14 Ave Kenosha
Wisc OL 7-6171
Dynamic Control Co 1955 Massachusetts Ave Cam-
bridge Mass EL 4-3633
Dynamic Development Co 59 New York Ave Westbury
N Y ED 3-1600
Dynamic Electronics Inc 73-29 Woodhaven Blvd Forest
Hills N Y IL 9-7000
Dynamic Gear Co 20 Merrick Rd Amityville LI NY
LI 1-3660
Dynamic Instrument Corp 59 New York Ave Westbury
N Y ED 3-1600
Dynamics Instrumentation Co Div Alberhill Corp 1118
Mission St S Pasadena Calif RY 1-3318
Dynamics Research Associates Div Universal Match
Corp P O Box 5841 Ferguson 21 Mo JA 2-1620
Dynamu Magnetics Corp Div Maico Co 21 N 3 St
Minneapolis 1 Minn FE 9-7041
Dynaapor Corp 5150 Church St Skokie Ill OR 4-6655
Dyatron Inc 717 W Amelia Ave Orlando Fla CH
1-2015
Dynaewood Corp 15026 Okinard St Van Nuys Calif
ST 01466
Dyrex Inc 777 Dunes Dr Pewaukee Wisc 5811
Dzus Fastener Co Box 185 Babylon NY MO 9-0494
Eagle Electric Mfg Co 23-10 Bridge Plaza S Long
Island City 1 NY ST 4-9200

Eagle Electronics Corp P O Box 775 Meriden Conn
BE 7-5528
Eagle Pencil Co 703 E 13 St New York 9 NY CA
8-1000
Eagle-Picher Co American Bldg Parkway & Walnut
Cincinnati 2 Ohio PA 1-7010
Eagle Signal Corp 202 20 St Moline Ill
Eastern Air Devices Inc 385 Central Ave Dover NH
Eastern Chemical Corp 34 Spring St Newark 4 NJ
LU 2-6939
Eastern Etching & Mfg Co Grape St Chicopee Mass
Eastern Industries Inc 100 Skiff St Hamden 14
Conn CH 8-3841
Eastern Precision Resistor Corp 675 Barby St
Brooklyn 7 NY HY 5-0133
Eastern Rolling Mills 1126 E 180 St New York 60
NY TA 3-2000
Eastern Smelting & Refining Corp 109 W Brookline
St Boston 18 Mass CO 6-7504
Eastern Specialty Co 3617 N 9th St Philadelphia 40
Pa SA 2-0500
Eastern Tool & Mfg Co 1 Montgomery St Belleville 9
N J PL 9-7100
Eastman Kodak Co 343 State St Rochester 4 NY
LO 2-6000
Eastman Pacific Co 2320 E B St Los Angeles 21
Calif TR 6317
Eaton Electronics Corp Moodus Conn TR 3-8628
Eaton Mfg Co Reliance Div 25 Charles Ave S E Mas-
sillon Ohio TE 2-1511
Eberlin Instrument Div Reynolds Electrical 805
Early St Santa Fe N Mexico 2-1881
Ebert Electronics Corp 212-26 Jamaica Ave Queens
Village 28 NY SP 6-1800
Eby Co H H 4700 Germantown Ave Philadelphia 44
Pa DA 4-7000
Ely Sales Co 130 Lafayette St New York 13 N Y
Eclair Radio B TV Co 2601 E Franklin Ave Minne-
apolis 6 Minn FE 9-7509
Eclipse Fuel Eng'g Co 1100 Buchanan Rockford Ill
8-3751
Eclipse-Pioneer Div Bendix Aviation Corp Teterboro
NJ AT 8-2000
Ed-Berl Products Inc 87 Merrick Rd Baldwin NY
Ed-Berl Instruments 1711 S Mountain Ave Duarte
Calif EL 8-4572
Edgerton, Germeshausen & Grier 150 Brookline Ave
Boston 15 Mass CO 7-3520
Edin Co 207 Main St Worcester 8 Mass PL 7-8394
Edison Industries Thomas A Instrument Div 91 Lake-
side Ave W Orange NJ OR 3-6800
Edo Electronics Eng'g Co 202 Grand St Brooklyn 11
NY EV 4-2746
Edo Corp 13-111 St College Point 56 LI NY
FI 3-6000
Edmund Scientific Co 101 E Gloucester Pike Barrin-
gton NJ LI 7-3488
Egan Lab 107-56 113 St Richmond Hill 19 NY MI
1-0605
Eicor Inc 4235 W North Ave Chicago 39 Ill HU 6-
2000
Eicor Inc Div Jacobs Co 517 W Walnut St Ogleby
Ill 3-8453
Eidson Electronic Co 1902 N 3 St Temple Texas PR
3-3901
Eisler Eng'g Co 750 S 13 St Newark 3 NJ BI 3-5310
Eitel-McCullough Inc (EIMAC) 798 San Mateo San
Bruno Calif JU 8-1212
Eitel-McCullough Inc (EIMAC) 798 San
Mateo Ave, San Bruno, Calif., JU no
8-1212
Vice Pres - Manufacturing G. F.
Wunderlich
Vice Pres - Finance F. E. McClaran
Dir. of Marketing C. H. Brown
Dir. of R. & D. John S. McCullough
Personnel Mgr. Roberta McMahon
Purch. Agt. Donald Rogers
Adv. Mgr. Berkeley J. Baker
ATLANTA-R. E. Joyner Assoc.,
2254 Cascade Road, SW, PO Box
10821, Station A, Plaza 5-4336
BOSTON-R. C. Cookley Sales Office, 148
Needham St., Newton Highlands,
Deatur 2-4800
CHICAGO-R. Royal J. Higgins Co.,
10105 S. Western Ave., CEdarcrest
3-7388
DENVER-R. McLeod & Raymond Co.,
6403 E. Evans, Skyline 6-1589,
6-1580
GRAND PRAIRIE, TEXAS-R. Tex-O-
Koma Sales Co., 235 S. E. 11th St.,
PO Box 747 (Dallas) Andrew
2-0866 (Fort Worth) CRStview
4-4530
JERSEY CITY-R. Adolph Schwartz,
15 Exchange Place, DELaware
3-2424, WOrth 4-1181
KANSAS CITY-R. Clyde H. Schryver
Sales Co., 8720 Norwood, Miltehill
9-8075, 9-8076
LOS ANGELES-R. Herb Becker Co.,
1140 Crenshaw Blvd., Webster
1-1257
SEATTLE-R. Rush S. Drake Associa-
tes, 1806 Bush Pince, EMerson
3-0550
CANADA-R. D. B. "Ben" Sheppard,
2036 Prince Charles Road, Ottawa,
Ontario, PARKway 2-7152
HAWAII-R. Hastin & Browne, PO Box
2098, Honolulu, Phone 989910

ALPHABETICAL LISTING of MANUFACTURERS with LOCALIZER INDEX

Elastic Stop Nut Corp of America 2330 Vauxhall Rd Union NJ MU 6-6000
 Elco Corp M St below Erie Ave Philadelphia 24 PA CU 9-5500
 Elco Mfg Co 137 Herrick Rd New Hyde Park LI NY PI 6-0840
 Elcor Inc P O Box 354 McLean Va EL 6-4760
 Elco Pacific Mason Div 3260 Motor Ave Los Angeles 34 Calif IE 0-3000
 Elco Tool & Screw Corp 1800 Broadway Rockford III 4-8611
 Eldema Corp 1805 Belcroft Ave El Monte Calif GI 4-7077
 Eldec Electronics 29-01 Barden Ave Long Island City 1 N Y ST 6-2100
 Eldorado Electronics Co 2821 10 St Berkeley 10 Calif TH 1-4613
 Electronic Mechanisms Inc Rt 9 Haddam Conn DI 5-4677
 Electralab Inc "A" St Needham Heights 94 Mass NE 3-5000
 Electra Mfg Co 4051 Broadway Kansas City Mo WE 1-6864
 Electran Mfg Co 1901 Clybourn Ave Chicago 14 III BI 8-4596
 Electrend Products Corp Box 110 St Joseph Mich YU 3-5572
 Electric Auto-Lite Co Wire & Cable Div Port Huron Mich YU 5-6131
 Electric Auto-Lite Co Champlain St Toledo Ohio CH 3-3131
 Electric Boat Div General Dynamics Eastern Point Rd Groton Conn HI 5-4321
 Electric Coil Co 4911 S Marshfield Ave Chicago 9 III WE 7-0701
 Electric Cord Co 21 Spruce St New York 38 NY WO 2-2528
 Electric Design & Mfg Co Jefferson St Burlington Iowa PL 2-7685
 Electric Eye Equipment Co 1941 E Fairchild St Danville III 2000
 Electric Furnace Co W Wilson St Salem Ohio ED 2-4661
 Electric Hotpack Co Cottman Ave & Melrose St Philadelphia 35 Pa DE 3-1700
 Electric Indicator Co Camp Ave Stamford Conn DA 2-1671
 Electric Machinery Mfg Co 800 Central Ave Minneapolis 13 Minn FE 9-6751
 Electric Motors & Specialties King & Hampster St Garrett Ind 613
 Electric Products Co 1725 Clarkstone Rd Cleveland 12 Ohio IV 1-1500
 Electric Regulator Corp Pearl St Norwalk Conn VI 7-2401
 Electric Soldering Iron Co W Elm St Deep River Conn LA 6-5975
 Electric Specialty Co 211 South St Stamford 1 Conn FI 8-6203
 Electric Steel Foundry Co 2141 N 25 St Portland 10 Ore CA 8-2141
 Electric Storage Battery Co Exide Automotive Div 42 E 15 St Philadelphia 2 Pa
 Electric Terminal Corp 75 Virginia Ave Providence 5 R 1 ST 1-2189
 Electric Terminals Corp 2019 Center St Cleveland 13 Ohio MA 1-8062
 Electric Trading Co 313 Canal St New York 13 NY CA 6-0575
 Electrical Communications Inc 76 Clementina St San Francisco 3 Calif KL 2-1947
 Electrical Eng'g & Mfg Co 4612 W Jefferson Blvd Los Angeles 16 Calif RE 3-0151
 Electrical Industries 691 Central Ave Murray Hill NJ CR 7-4300
 Electrical & Physical Instrument Corp 42-19 27 St Long Island City 1 NY ST 4-6389
 Electrical Products Research & Development Co 1206 Cherry St Toledo 4 Ohio CH 3-8107
 Electrical Refractories Co E Clark St E Palestine Ohio GA 6-433
 Electrical Service Co 1271 Mission St San Francisco 3 Calif UN 1-2245
 Electrical Specialty Co 158 11 St San Francisco 3 Calif ME 1-8450
 Electrical Testing Labs Inc 2 East End Ave New York 21 NY BU 8-2600
 Electrical Tower Service Inc 325 S Washington St Peoria III 3-9846
 Electrical Utilities Co 2427 St Vincent's Ave La Salle III 1732
 Electrical Windings Inc 2015 N Kolmar Ave Chicago 39 III BE 5-3360
 Electro-Hire Assemblies 700 W Virginia Milwaukee 4 Wisc BR 2-3323
 Electra Terminals & Connectors Inc 999 E 67 St Cleveland 3 Ohio EN 1-3144
 Electro Assemblies Inc 4444 N Kedzie Ave Chicago 25 III KE 9-3100
 Electro-Ceramics Inc 120 State St New Haven Conn LO 2-4334
 Electro-Chemical Eng'g & Mfg Co 750 Broad St Emmaus Pa WO 5-9061
 Electrochemical Industries Inc 35 Armory St Worcester 3 Mass PL 6-3846
 Electro Coatings Inc 1662 W Fullerton Ave Chicago 14 III GR 7-5900
 Electro Contacts Inc Main St Osterville Mass GA 8-6986
 Electrodata Div Burroughs Corp 460 Sierra Madre Villa Pasadena Calif RY 1-0471
 Electro-Development Co 14701 Keswick St Van Nuys Calif ST 6-3660
 Electro Devices Inc 580 Main St Wilmington Mass OL 8-3385

Electro-Devices Inc 4 Godwin Ave Paterson 1 NJ AR 4-8989
 Electrodyne Co Endicott St Norwood Mass NO 7-3203
 Electro Eng'g Works 401 Preda St San Leandro Calif LO 9-3326
 Electro-Etch Circuits Inc 3140 W Florence Ave Los Angeles 43 Calif PL 2-6111
 Electro-Fabricators 44 Beacon Pl Pasadena Calif Electrofilm Inc 7116 Laurel Canyon Blvd N Hollywood Calif PD 5-4420
 Electro-Flex Heat Inc 83 Woodbine St Hartford 6 Conn CH 7-2401
 Electro Impulse Lab Inc 208 River St Red Bank NJ Electro Instrument Inc Aero Ct San Diego Calif BR 7-6590
 Electroline Inc 7517 N Clark St Chicago 26 III RO 4-5025
 Electromath Corp 42-14 Greenpoint Ave Long Island City 4 NY ST 4-3483
 Electromation Co 1646 18 St Santa Monica Calif TE 0-6401
 Electro-Measurements Inc 7524 S W Macadam Ave Portland 1 Ore CH 6-3331
 Electro-Mec Lab Inc 47-51 33 St Long Island City 1 NY ST 6-3402
 Electro-Mechanical Div General Riveters Inc 785 Hertel Ave Buffalo 7 NY BE 9-8785
 Electro-Mechanical Instrument Co 8 & Chestnut St Perkasie Pa AL 7-6561
 Electro-Mechanical Specialties Co 1016 N Highland Ave Los Angeles 38 Calif HO 2-0793
 Electro-Medical Lab Inc S Woodstock 10 VI 144M4
 Electro Metallurgical Co Div Union Carbide & Carbon 30 E 42 St New York 17 NY MU 7-8000
 Electro-Miniatures Corp 1060 Elm Ave Ridgefield NJ WH 3-7300
 Electro-Mold Div Commercial Controls Corp 45 Crouch St Rochester 3 NY BU 8-4900
 Electro Motive Mfg Co Williamatic Conn HA 3-4551
 Electron Enterprises 6917 W Stanley Ave Berwyn III ST 8-2693
 Electronic Assembly Co 5 Prescott St Roxbury 19 Mass HI 5-7585
 Electronic Associates Inc Long Branch NJ CA 9-1100
 Electronic Associates P O Box 22 St Albans 12 NY Electronic Batteries Inc 28-34 St Brooklyn 32 NY ST 8-3641
 Electronic Brazing Co 140 Glenridge Ave Montclair NJ PI 4-2160
 Electronic Coil Co 2506 N Ontario St Burbank Calif TH 2-9898
 Electronic Coil Engineers Inc 5830 Main St Hollydale Calif NE 6-4333
 Electronic Coils Inc P O Box 1665 Springfield Mass RE 6-6339
 Electronic Communication Equipment Co 1249 W Loyola Ave Chicago 26 III RO 1-1206
 Electronic Communications Inc 1501 72 St St Petersburg Fla D 5-9301
 Electronic Components 2655 W 19 St Chicago 8 III LA 3-8568
 Electronic Computer Co 6191 Ridge Ave Philadelphia 28 Pa IV 3-5226
 Electronic Contractors Inc 2101 SE 6 Ave Portland 14 Ore OE 4-3515
 Electronic Control Corp 1573 E Forest Ave Detroit 7 Mich TE 2-6225
 Electronic Control Systems 2231 Barrington Ave Los Angeles 64 Calif BR 2-0845
 Electronic Creations Co 1178 E 180 St New York 60 NY SY 2-3510
 Electronic Designs Inc 28 School St Yonkers NY YO 9-4600
 Electronic Devices Inc 429 12 St Brooklyn 15 NY SO 8-3530
 Electronic Eng'g Co 362 W Bowery St Akron 7 Ohio FR 6-3191
 Electronic Eng'g Co of Calif 180 S Alvarado Los Angeles 57 Calif DU 2-7353
 Electronic Enterprises Inc 65 7 Ave Newark NJ HU 2-0630
 Electronic Fabricators Inc Elton Div 682 Broadway New York 12 NY SP 7-4900

Electronics Design Co 400 E Cornell St P O Box 401 Enid Okla AD 4-1584
 Electronics Development Co 3743 N Cahuenga Blvd N Hollywood Calif ST 7-3223
 Electronic Secretary Industries Inc 805 S 5 St Milwaukee 4 Wisc DR 2-0746
 Electronics Inc 39 York Rd Willow Grove Pa WI 4704
 Electronics Intl Co 145 W Magnolia Blvd Burbank Calif VI 9-2481
 Electronics Intl Co Inc 20 N Lee St Oklahoma City 2 Okla RE 6-1818
 Electronic Specialty Co 5121 San Fernando Rd Los Angeles 39 Calif CH 5-3771
 Electronic Systems Eng'g Co 903 Cravens Blvd Oklahoma City Okla
 Electronic Test Equip 29166 Wadon Rd Wixom Mich GA 2-6112
 Electronic Transformer Co 70 Washington St Brooklyn 1 NY MA 5-6123
 Electronic Tube Coil Co 274 N Day St Orange N J Electronic Tube Corp 1200 E Mermaid Lane Philadelphia 38 Pa CH 7-6800
 Electron Products Inc 430 N Halstead St Pasadena 8 Calif RY 1-0666
 Electron-Radar Products 4806 W Chicago Ave Chicago 51 III ES 9-1232
 Electrons Inc 127 Sussex Ave Newark 3 NJ HU 2-5977
 Electro-Physics Labs 2065 Huntington Dr San Marino Calif RY 3-6781
 Electro-Physics Co 287 Broadway New York 7 NY WO 4-1290
 Electro Products Labs Inc 4501 N Ravenswood Ave Chicago 40 III LO 1-1707
 Electro-Pulse Inc 11861 Teale St Culver City Calif TE 0-8006
 Electro Snap Switch & Mfg Co 4218 W Lake St Chicago 24 III VA 6-3100
 Electro-Solids Corp 7436 Varna Ave N Hollywood Calif PO 5-9716
 Electro-Sonic Labs 35-54 36 St Long Island City 6 NY RA 8-6370
 Electro Sound Corp 115 Hallett St Boston 15 Mass MI 2-7575
 Electro-Switch & Controls Inc 5755 Camille Ave Culver City Calif TE 0-6443
 Electro Switch Corp King Ave Weymouth 88 Mass ED 5-5200
 Electro Tec Corp 4 Romanelli Ave S Hackensack NJ HU 7-4940
 Electro-Technical Labs Div Mandrel Industries 5134 Glenmont Houston Texas MO 7-6561
 Electro-Technical Products Div Sun Chemical Corp 113 E Centre St Nutley 10 NJ MU 2-7070
 Electrovert Inc 489 S Ave New York NY MU 2-2492
 Electron Vision Lab 41-08 45th St Long Island City 1 N Y

See listing →

Electronic Instrument Co 84 Withers St Brooklyn 11 NY ST 2-2700
 Electronic Machine Parts Inc 204 Lafayette St New York 12 NY WA 5-9907
 Electronic Measurements Co Lewis St & Maple Ave Eatontown NJ EA 3-0300
 Electronic Measurements Corp 625 Broadway New York 12 NY GR 5-0610
 Electronics Mechanics Inc 101 Clifton Blvd Clifton NJ GR 3-4108
 Electronic Organ Arts 4878 Eagle Rock Blvd Los Angeles 14 Calif CL 6-6828
 Electronic Parts Mfg Co 28 25 St Union City NJ UN 5-4028
 Electronic Plastics Corp 675 Barbey St Brooklyn 7 N Y NY 5-0133
 Electronic Processes Corp of Calif 2190 Folsom St San Francisco 10 Calif UN 1-9595
 Electronic Production & Development 138 Nevada St El Segundo Calif OR 8-3963
 Electronic Products Co 111 E 3 St Mt Vernon NY MO 8-5368
 Electronic Products Div Post Machinery 140 Elliot St Beverly Hills WA 2-0811
 Electronic Rectifiers Inc 2102 Spann Ave Indianapolis 3 Ind ME 1-9566
 Electronic Research Associates 67 Factory Pl Cedar Grove N J CE 9-3000
 Electronics Corp of America 1 Memorial Dr Cambridge 42 Mass UN 4-8000

Electronic Fabricators, Inc. Efeon Div., 682 Broadway, New York 12, N. Y. SP 7-4800
BALTIMORE R: Habel Electronic Sales Co., 603 Allegheny Ave., Towson, Md., Valley 5-9637, Covers D. C., Del., Md., So. N. J., East. Pa., Va., N. C.
BOSTON R: John E. Boeing Co., P. O. Box 235, Lexington, Mass., Volunteer 2-2500, Covers New England
CINCINNATI R: Sheridan Associates, Roselawn Center Bldg., MEIrose 1-2460, Covers So. Ohio, Ky.
CLEVELAND R: Sheridan Associates-Phil Johnson, 5348 Pearl Road, Toledo 4-8060, Covers No. Ohio, West. Pa.
DENVER R: Raymond E. Vinson, Box 8386, Univ. Park Sta., SUNset 9-2851, Covers Colo., New Mex., Utah, Wyo.
DETROIT R: Koehler-Pasmore Co., 11833 Hamilton Ave., TOWnsend 8-3322, Covers Michigan
MIAMI R: Kimball Electronics, Inc., 2921 N. W. Sixth Ave., FRAnklin 1-0655, Covers Ala., Fla., Ga.
NEW HAVEN R: John E. Boeing Co., John Kitchen, 265 Church Street, State 7-0115, Covers Conn.
NEW YORK R: Greenvale, L. I. R.: H. W. Brede Co., 75 Glen Cove Rd., MAYfair 1-4700, Covers No. N. J., N. Y. State
PASADENA R: Arvin Bell Co., 385 E. Green St., RYan 1-0391, Covers Ariz., So. Calif., Nev.
SAN FRANCISCO R: C. R. Dalton Assoc., 132 El Camino Real, San Carlos, LIteil 1-2654, Covers No. Calif.
SEATTLE R: Ray Johnston Co., 11009 Evanston Ave., EMerson 2-0958, Covers Mont., Ore., Wash., Alaska, Idaho, Br. Col.
SYRACUSE R: H. W. Brede Co., 712 State Tower Bldg., Granite 1-3441, Covers Upper New York State.
TULSA R: C. D. Daniels Co., P. O. Box 8511 Springdale Sta., RIVERSide 7-0234, Covers Okla., Tex.
TOKYO R: Technical Factors, Ltd., 1 Nishi Nanachome Ginza, Chuo-Ku, Ginza 57-3665, Covers all of Asia.

ALPHABETICAL LISTING of MANUFACTURERS with LOCALIZER INDEX

- Electro-Voice Inc Cecil & Carrol Sts Buchanan Mich
OX 5-6831
- Electronics Co 60 Franklin St E Orange NJ OR 4-1060
- Electro Serv Co 450 Johnson Ave Brooklyn 37 NY
NY 7-0053
- Elia Instrument Center 55 Reade St New York 7 NY
WO 4-1290
- Eligenco P O Box 45344 A P Sta Los Angeles Calif
FR 5-4685
- Elgin National Watch Co Electronics Div 2435 N
Wabom St Burbank Calif VI 9-1446
- Elgin Metalformers Corp 630 Congdon St Elgin Ill
SH 1-3490
- Elgin National Watch Co 366 Bluff City Blvd Elgin
Ill SH 2-5700
- Elk Electronics Labs Inc 333 W 52 St New York 19
N Y PL 7-0520
- Ellman Chemical Co 2308 Oakton St Evanston Ill
BH 4-7168
- Ellis Associates 67 Lincoln Ave Pelham NY BE B-3360
- Ellis & Sons George D 4028 N American St Phila-
delphia 40 Pa BA 3-3405
- Ellison Draft Gage Co 548 W Monroe St Chicago 6
Ill RA 6-2296
- Ellis & Watts Products Inc P O Box 33 Cincinnati
36 Ohio ST 1-1725
- Elm Labs 10 Washington Ave Hastings-on-Hudson NY
DD 3-7770
- Elmer Eng'g Div American Steel Foundries 1150 Ten-
nessee Ave Cincinnati 29 Ohio RE 1-9210
- El Products Corp P O B 41 New York 63 NY KI
8-3948
- El-Rad Mfg Co 2800 W Cullom Ave Chicago 18 Ill
IR B-7300
- El-Tronics Inc Penn Ave Mayfield Pa JE-1450
- Elzette Metal Products Co 775 39 St Brooklyn 32 NY
GE 5-5000
- EMC Recordings Corp 806 E 7 St St Paul 6 Minn
PR 6-2763
- Emeloid Co 1239 Central Ave Hillside 5 NJ EL
2-1944
- Emerson & Cuming Inc 869 Washington St Canton 1
Mass CA 6-1066
- Emerson Electric Mfg Co 8100 Florissant Ave St
Louis 23 Mo CO 1-1800
- Emerson Plastics Corp Seabury Ave & Butler Pl
Bronx 61 NY SY 2-4400
- Emerson Radio & Phonograph Corp 14 & Coles Sts
Jersey City 2 NJ SW 5-3500
- Emerson-Sack-Warner Corp 85 Washington St Somer-
ville 43 Mass MO 6-4450
- Emmett Machine & Mfg 445 E Turkeyfoot Lake Rd
Akron 19 Ohio TY 6-2312
- Empire Devices Products Corp 38-15 Bell Blvd Bay-
side 61 NY BA 4-8500
- Empire Electronics Co 166 River St Paterson 1 NJ
AR 4-8282
- Empire Product Sales Corp 37 Prospect St Amsterdam
N Y VI 2-8400
- Endeco Eng'g Development Co of Los Angeles 148-50
Wilmington Blvd Wilmington Calif TE 5-7272
- Endeeco Corp 161 E California St Pasadena Calif RY
1-5231
- Enfo Corp Fellowship Rd Route 73 Maple Shade N J
ND 3-1700
- Engelhardt Eng'g Co 38 Burrill Ave S Norwalk Conn
VO 6-9647
- Engelhard Inc Charles 850 Passaic Ave E Newark N J
HU 2-4504
- Engelhard Ind Inc Amer Platinum & Silver Div 231
N J RR Ave Newark N J MA 2-8035
- Engelhard Industries Inc 113 Astar St Newark N J
BI 3-0030
- Engineered Electronics Co 506 E 1 St Santa Ana
Calif KI 3-9384
- Engineered Magnetics Div Gulton Industries Inc 13030
Cerrise Ave Hawthorne Calif OS 5-0366
- Engineering Associates 434 Patterson Rd Dayton 9
Ohio WA 1662
- Engineering Co 27 Wright St Newark 5 NJ BI 3-0800
- Engineering Developments Inc Forest Ave Middletown
NI VI 6-9100
- Engineering Enterprises Inc 1200 18 St N W Wash-
ington 6 D C
- Ennis Equipment Co 431 S Dearborn St Chicago 5 Ill
HA 7-3223
- Ensign Coil Co 2520 S Pulaski Chicago 23 Ill CR
7-4141
- Enthone Inc 442 Elm St New Haven 8 Conn SP
7-5581
- Enthoven Solders Ltd 113 N Water St Rochester 4
NY BA 5-1876
- Entron Inc 4902 Lawrence St Bladensburg Md AP
7-9585
- Environmental Equipment Co 369 Linden St Brooklyn
27 NY HE 3-9872
- E O Electronics Inc Mountain Lakes NJ RD 9-3091
- Epco Electronics Inc 140 Liberty St New York 6
NY WO 2-1573
- Epco Products Inc 2500 Atlantic Ave Brooklyn 7 NY
DI 5-7531
- EPM Corp 675 Barby St Brooklyn N Y NY 5-0133
- Epoxy Products Inc Div Joseph Waldman & Sons 133
Cort St Irvington NJ ES 5-6000
- Eppley Lab Inc 12 Sheffield Ave Newcut R I VI
7-4513
- Errad Co 1205 Cherry St Toledo 4 Ohio CH 3-8107
- Epco Inc 58B Commonwealth Ave Boston 15 Mass
CO 7-8100
- Epylon Sales & Services Ltd N Feltham Trading
Estate Faggs Rd Bedford Feltham Middlesex England
FE-5091
- Equip-A-Matic Eng'g Corp 6045 W Ogden Ave Chicago
50 Ill OL 6-0211
- Equipment & Service Co 6815 Oriole Dr Dallas 7
Texas FL 2-9918
- Equipto Div Aurora Equipment Co Aurora Ill 64641
- Era Eng'g Inc 1009 Montana Ave Santa Monica Calif
EX 5-9595
- Eraser Co 1068 S Clinton St Syracuse 4 NY 76-7441
- Erca Tool Die & Stamping Co 19 Ash St Brooklyn 22
NY EV 9-1618
- Ercona Corp 551 S Ave New York 17 NY MU 2-2577
- Erca Radio Labs Inc 637 Stewart Ave Garden City
NY PI 1-0300
- Erdo Eng'g Corp Official & Westgate Addison Ill
TE 4-1849
- Ericson Mfg Co 1660 Hayden Ave Cleveland 12 Ohio
GL 2030
- Eric Resistor of Canada Ltd 7 Fraser Ave Trenton
Ont Canada EX 2-6524
- Erikson Specialized Tool Co P O Box 424 Pico Calif
OX 9-3719
- Ernst & Amihates W Arthur 825 Hayes Ave Racine
Wisc WE 2-2731
- Erwood Inc 1770 W Berleau Ave Chicago 13 Ill BI
8-0622
- ESC Corp 534 Bergen Blvd Palisades Park NJ WI
7-0400
- Essex Electronics Div NYT Electronics Inc 7303 Aloi
Ave N Hollywood Calif ST 7-5451
- Essex Electronics 550 Springfield Ave Berkeley Heights
NJ GR 3-9300
- Essex Electronics 99 Wragge St Trenton Ont Canada
EX 2-6544
- Essex Mfg Co 8213 Gravoise Ave St Louis 23 Mo
VE 2-4500
- Essex Wire Corp 1601 Wall St Ft Wayne 6 Ind
E-4461
- Essex Wire Corp Magnetic Winding Inc Easton Pa
3-2751
- Ess Instrument Co 96 S Washington Ave Bergenfield
NJ DU 4-3411
- Espey Mfg Co Congress & Ballston Ave Saratoga
Springs NY 4100
- Esterline-Angus Co P O Box 596 Indianapolis 6 Ind
CH 4-3318
- Etched Products Corp 39-01 Queens Blvd Long Island
City 4 NY ST 4-5900
- Eugene Eng'g Co 1217 Hyde Park Ave Boston 36
Mass HP 3-4404
- Eureba X-Ray Tube Corp 3250 N Kilpatrick Ave Chi-
cago 41 Ill KI 5-3126
- Eutectic Welding Alloys 40-40 172 St Flushing 5R
N Y
- Ewald Instruments Route 7E Kent Conn
- Exact Eng'g & Mfg Inc P O Box 668 Oceanside Calif
SA 2-8503
- Exact Weight Scale Co 944 W 5 Ave Columbus 8 Ohio
AX 1-4637
- Exact Industries Inc 8730 Santa Monica Blvd Los
Angeles 46 Calif OL 5-7470
- Exakta Camera Co 705 Bronx River Rd Bronxville 8
NY BE 7-5500
- Excellex Electronics Inc 475 Chestnut St Cedarhurst
L I NY CE 9-8532
- Executone Inc 415 Lexington Ave New York 17 NY
MU 7-7440
- Exide Industrial Div Electric Storage Battery Co 42
S 15 St Philadelphia 2 Pa LO 4-4030
- Extruders Inc 3233 W El Segundo Blvd Hawthorne
Calif OR 8-4071
- Eyefit Tool Co 236A Broadway Cambridge Mass
EL 4-4492
- E-Z-Hook Test Products 1536 Woodburn Ave Coving-
ton Ky CO 1-1495
- E-Z Way Towers Inc 5901 E Broadway Tampa 5 Fla
4-2171
- Factory Enterprises Inc 3431 Butler St Pittsburgh 1
Pa MU 1-1199
- Factory Service Co 4615 N 21 St Milwaukee 9 Wisc
HI 5-2715
- Fafnir Bearing Co 37 Booth St New Britain Conn BA
9-0381
- Fairbanks Wire Co 2287 Hollers Ave New York 69
NY FA 4-1266
- Fairchild Camera and Instrument Corp Industrial
Camera Div 88-06 Van Wyck Expressway Jamaica 1
NY JA 6-3800
- Fairchild Controls Corp 6111 E Washington Blvd
Los Angeles Calif RA 3-5191
- Fairchild Controls Corp Components Div 225 Park Ave
Hicksville L I New York
- Fairchild Electrical Products Div 110 Main St Bur-
lington VI 4-5786
- Fairchild Guided Missiles Div Fairchild Engine &
Airplane Corp Straight Path Wyandanch L I NY
MI 3-7171
- Fairchild Recording Equipment Co 10-40 45 Av Long
Island City 1 NY ST 4-6163
- Fair-Rite Products Corp Commercial Row Walkhill
NY WA 3-2632
- Falstrom Co Falstrom Court Passaic NJ PR 7-0013
- Fanon Electric Co 90 Berriman St Brooklyn 8 N Y
MI 7-3400
- Fansteel Metallurgical Corp 2200 Sheridan Rd N
Chicago Ill DE 6-4900
- Farley & Loetscher Mfg Co Plastics Div 7 & White
Sts Dubuque Iowa 2-5451
- Farmer Electric Products Co 2300 Washington St
Newton Lower Falls 62 Mass DE 2-4260
- Farnam Mfg Co 2000 Sweeten Creek Rd Asheville NC
3-5652
- Farnsworth Electronic Co Pacific Div 815 S San An-
tonio Rd Palo Alto Calif VO 7-7249
- Farnsworth Electronics Co Div I Y & T 3702 E
Pontiac St Ft Wayne Ind E-7175
- Farrand Controls Inc 4401 Bronx Blvd New York 70
NY FA 4-2200
- Farrelloy Co 1243 N 26th St Phila Pa PD 3-2124
- Fasco Industries Inc 255 N Union St Rochester 2
N Y HA 6-1800
- Fastex Div III Tool Works 195 Algonquin Rd Des
Plaines Ill VA 7-2121
- Fay Co Neal 427 Olive St Santa Barbara Calif WO
2-0722
- Fecker Inc J W 6592 Hamilton Ave Pittsburgh 6 Pa
Federal Anti Capacity Switch Corp 72 Kingsley St
Buffalo 8 NY GA-1600
- Federal Cable Div Royal Electric Corp 95 Grand Ave
Pawtucket R I 2-8600
- Federal Equipment Co 38 Brady St San Francisco 3
Calif UN 3-3607
- Federal Instrument Corp 12-10 Broadway Long Island
City 6 N Y RA 6-2308
- Federal Machine Co 807 Garfield Ave Jersey City 5
NJ HE 5-1500
- Federal Mfg & Eng'g Corp 1055 Stewart Ave Garden
City NY PI 2-7400
- Federal Products Corp 1144 Eddy St Providence R I
ST 1-9300
- Federal Screw Products Inc 3917 N Kedzie Ave Chi-
cago 19 Ill IR 8-5744
- Federal Shockmount Corp 1060 Washington Ave New
York 56 NY NY 3-0400
- Federal Telecommunication Labs Div IT&T 500 Wash-
ington Ave Nutley NJ NU 2-3600
- Federal Tool & Mfg Co 3600 Alabama Ave Minne-
apolis 16 Minn WE 9-7843
- Federated Metal Div American Smelting & Refining Co
4010 E 26th St Los Angeles 23 Calif AN 8-4291
- Federated Metals Div American Smelting & Refining Co
220 Broadway New York 5 NY RE 2-9740
- Feedback Controls Inc 859 Main St Waltham 54 Mass
TW 4-1020
- Feiler Eng'g & Mfg Co 8026 N Monticello Ave Skokie
Ill 7987
- Feiner & Sons P 522 W 45 St New York 36 NY
PL 7-6150
- Fellow Gear Shaper Co 78 River St Springfield VI
TU 5-2131
- Felsinthal & Sons Inc G 3500 N Kedzie Ave Chicago
18 Ill
- Felters Co 210 South St Boston 11 Mass LI 2-7021
- Felthousen Audio Service 1706 Chatsworth St Granada
Hills Calif EM 3-1451
- Fell Products Mfg Co 1504 Carroll Ave Chicago 7 Ill
MD 6-6750
- Felt & Tarrant Mfg Co Comptometer Dictation Div
Algonquin Ill OL R-4548
- Femco Inc Box 32 Irwin Pa UN 3-3200
- Fen-Tone Corp 106 5th Ave New York 11 N Y DR
5-3042
- Fenwal Electronics Inc Mellen St Framingham Mass
- Fenwal Inc Pleasant St Ashland Mass TR 2-3577
- Ferranti Electric Inc 30 Rockefeller Plaza New York
20 NY CI 7-0911
- Ferrara Inc 8106 W 9 Mile Rd Oak Park 37 Mich
JD 6-2327
- Ferris Instrument Corp 110 Cornelia St Boonton 1
NJ JE 4-0781
- Ferrotron Electronics Co 693 Broadway New York 12
N Y AL 4-5810
- Ferrocube Corp of America 35 E Bridge St Saugerties
NY
- Fibre Containers Co 4700 District Blvd Los Angeles
58 Calif LU 5-2177
- Fibre Glass Enrocast Co 7220 Vine St Cleveland 16
Ohio PD 1-5500
- Fidelity Amplifier Co 703 Willow St Chicago 14 Ill
MO 4-2966
- Fidelity Chemical Products Corp 470 Freinhausen
Ave Newark 12 NJ RR 2-4110
- Fidelity Electric Co 332 N Arch St Lancaster Pa
EK 7-8231
- Field Electrical Instrument 8 N Manheim Blvd New
Paltz N Y NE 8208
- Fielden Instrument Div Rohrershaw-Fulton Controls
Co 2920 N 4 St Philadelphia 33 Pa GA 6-6750
- Filmack Studios 1327 S Wabash Ave Chicago 5 Ill
HA 7-3395
- Film & Production 1032 N 6 St Milwaukee 3 Wisc
BR 6-5670
- Film Associates 4600 S Dixie Hwy Dayton 9 Ohio
WA 2164
- Film Cartridges Inc 3400 Park Ave New York 56 NY
CY 2-5180
- Filmohm Corp 38 W 25 St New York 10 NY WA
4-9276
- Filters Inc 30 Sagamore Hill Dr Port Washington
NY PD 7-3850
- Filtrom Co 131-15 Fowler Ave Flushing 55 NY FL
9-8300
- Filtrom Co 10023 W Jefferson Blvd Culver City Calif
FE 9-7200
- Finn & Co T R 200 Central Ave Hawthorne NJ HA
7-4100
- Finneco Co 34 W Interstate St Bedford Ohio BT
2-6161
- Firststone Guided Missile Div Los Angeles 54 Calif
First Electronics Corp 117 Blue Hill Ave Boston 19
Mass HI 5-3810
- Firth Sterling Inc 3113 Forbes St Pittsburgh 13 Pa
MU 2-4600
- Fischer & Co H G 9451 W Belmont Ave Franklin
Park Ill TU 9-0400
- Fischer & Co R A 517 Commercial St Glendale 3
Calif CH 5-2404
- Fischer & Porter Co 478 Warminister Rd Hartono Pa
OS 5-6000
- Fisher Berkeley Corp 4224 Holden St Emeryville 8
Calif OL 5-9696
- Fisher & Crome 109 N Camac St Philadelphia 7 Pa
LD 4-5014
- Fisher Co Inc Oscar P O Box 426 Newburgh N Y
NE 2-3900
- Fisher Co R H 40 Gough St San Francisco 3 Calif
UN 1-2560
- Fisher Eng'g Inc P O Box 327 Huntington Ind 315

ALPHABETICAL LISTING of MANUFACTURERS with LOCALIZER INDEX

Fisher Governor Co Marshalltown Iowa 5561
 Fisher-Pierce Co 170 Pearl St S Braintree 85 Mass
 VI 3-5000
 Fisher Radio Corp 21-21 44 Dr Long Island City 1
 NY EX 2-2500
 Fisher Research Lab 1961 University Ave Palo Alto
 Calif DA 2-4646
 Fisher Scientific Co 711 Forbes St Pittsburgh 22 Pa
 EX 1-1330
 Fish-Schurman Corp 70 Portman Rd New Rochelle
 NY NE 6-1300
 Five Star Co W Main St Plantsville Conn MA 8-5561
 Flamemaster Chemical Inc 3813 Hoke Culver City
 Calif TE 34731
 Flanders Mill Inc P O Box 718 Riverhead NY PA
 7-2102
 Fleetwood Labs Inc 300 Victory Blvd New Rochelle
 N Y BE 5-0831
 Flexaust Co 100 Park Ave New York 7 NY OR 9-1300
 Flexo International Corp 3255 W Lake St Chicago 24
 Ill KE 3-3257
 Flow Corp 85 Mystic St Arlington Mass MI 8-3189
 Flexonics Corp 1315 S J Ave Maywood Ill MA 6-3664
 Flexrock Co 3609 Filbert St Philadelphia 1 Pa BA
 2-5500
 Flight Research Inc P O Box 1-F Richmond 1 Va
 FA-2506
 Flock Process Co 375 Main Ave Norwalk Conn VI
 7-4586
 Floquil Products Inc Cobleskill NY 1260
 Florman & Babb 68 W 45 St New York 36 NY MU
 2-2928
 FluidDyne Eng'g Corp 425 N 7 St Minneapolis 6 Minn
 FE 8-6905
 Fluor Mfg Co John 1111 W Nickerson St Seattle 99
 Wash GA-5700
 Fluorocarbon Products Inc Div U S Gasket Co 602 N
 10 St Camden 1 NJ WO 4-0370
 Flush Wall Radio Co 1012 Cleveland St Clearwater
 Fla 34-6061
 Foote Bros Gear & Machine Corp 4545 S Western
 Blvd Chicago 9 Ill VI 7-4200
 Foote Mineral Co 18 W Chelton Ave Philadelphia 44
 Pa VI 8-4000
 Forbes & Wagner Inc 343 Central Ave Silver Creek
 NY 650
 Ford Eng'g Inc 3030 Nebraska Ave Santa Monica
 Calif EX 3-6755
 Fordham Mfg Co 2220 Pearsall Ave New York 69
 N Y
 Ford Instrument Co Div Sperry Rand Corp 31-10
 Thomson Ave Long Island City 1 NY ST 4-9000
 Ford Radio & Mica Corp 536 63 St Brooklyn 20 NY
 GE 9-8300
 Forest Electric Co 7216 Circle Ave Forest Park Ill
 FO 6-4100
 Formica Corp 4614 Spring Grove Ave Cincinnati 11
 Ohio KI 1-3670
 Formica Metal Products Co Corporation Way Medford
 55 Mass NY 8-5656
 Form-It Products Inc 16-19 W Walnut St Chicago
 12 Ill HA 1-7337
 Formsprag Inc 23601 Hoover Rd Warren Mich JE
 6-5100
 Forro Scientific Co 833 Lincoln St Evanston Ill DA
 8-5729
 Forsberg Mfg Co 125 Steavie Ave Bridgeport 1 Conn
 ED 4-9469
 Foster-Teichmann Co 1212 Clark Bldg Pittsburgh 22
 Pa EX 1-0820
 Fort Wayne Metals Inc 3211 MacArthur Dr Ft Wayne
 6 Ind HA-3267
 Foster Eng'g Co 835 Lehigh Ave Union NJ MU 6-8800
 Foster Transformer Co 3820 Colerain Ave Cincinnati
 23 Ohio MU 1-2420
 Foster's Pressed Steel Corp N Main St Fostoria Ohio
 HE 5-7721
 Foto-Video Labs Inc 25 Amity St Little Falls NJ LI
 4-2557
 Fourdee Inc 704 W Fairbanks Ave Winter Park Fla
 MI 7-0899
 Foxboro Co Neponset Ave Foxboro Mass KI 3-5511
 Fox Co Thomas T 95 Summit St Newark N J MI
 2-4323
 Fox Products Co 4720 N 18 St Philadelphia 41 Pa
 MI 4-2700
 France Mfg Co 10325 Berea Rd Cleveland 2 Ohio
 WO 1-4130
 Franke Gear Works Inc 1920 W Columbia Ave Chicago
 12 Ill AM 2-2408
 Franklin Connector Co 27 Vestry St New York 13 NY
 WA 5-3563
 Franklin A W 39 Broadway New York 6 N Y
 Franklin Dales Co 180-184 E Mill St Akron 8 Ohio
 PD 2-7236
 Franklin Electronics Inc Box 113 Bridgeport Pa BR
 2-4800
 Franklin Fibre-Lamitec Corp Wilmington Dela OL
 8-5269
 Frederick Recording Co 101 Townsend St Midland
 Mich TE 2-3757
 Fredericks Co Geo E Bethayres Pa CH 0467
 Fredericks Tool & Eng'g Corp 414 Pine Ave Frederick
 Md MD 2-1802
 Freed Transformer Co 1718-36 Weirfield St Brooklyn
 27 NY EV 6-1300
 Freeland Products Co 706 Dryades St New Orleans
 12 La TU-5361
 Freeway Washer & Stamping Co 4911 Grant Ave
 Cleveland 5 Ohio BR 1-6262
 Frenchtown Porcelain Co Muirhead Ave Trenton 9 NJ
 EX 2-3154
 Frequency Standards P O Box 504 Asbury Park NJ
 PH 4-0500
 Friez Instrument Div Bendix Aviation Corp 1400 Tay-
 lor Ave Baltimore 4 Md VA 3-4040

F-R Machine Works Inc Electronic & X-Ray Div 26-12
 Borough Pl Woodside 77 NY AS 8-2800
 Fuel Watchman Inc 77-29 138 St Flushing 67 N Y
 HE 9-0908
 Fugle-Miller Labs Inc 301 Central Ave Clark NJ
 FU 1-2727
 Fuller Co N B 181 W Kellogg Blvd St Paul 2 Minn
 Furness Plastics Inc 4516 Brazil St Los Angeles 32
 Calif CH 5-1153
 Furnas Electric Co 1000 McKee St Batavia Ill 3410
 Furzehill Labs Ltd 57 Clarendon Rd Watford England
 Fusite Corp 6000 Fernview Ave Cincinnati 13 Ohio
 RE 1-2020
 Fuse-on Products Div Aetna Supply Inc 15 N Hickory
 St Arlington Heights Ill CL 5-5000
 Gabriel Electronics Div Gabriel Co 135 Crescent Rd
 Needham Heights 94 Mass NE 3-0005

Gabriel Electronics Div. (The Gabriel
 Co.)

135 Crescent Rd., Needham Heights,
 Mass.
 Telephone: Hillcrest 4-0005

Antennas and Associate accessory
 equipment

Complete Laboratory and Production
 Facilities

Director of Sales and Engineering:
 Mr. Steven Galagan

Sales Manager: Mr. Joseph H. Han-
 nigan

Gaertner Scientific Corp 1250 Wrightwood Ave Chi-
 cago 14 Ill BU 1-5335
 Gahagan Inc Waterman Ave Esmond 17 RI CO 1-4000
 Gai-Tronics Corp 607 Washington St Reading Penna
 SP 7-5086
 Gammewell Co 1238 Chestnut St Newton Upper Falls
 64 Mass BI 4-1240
 Garde Mfg Co 588 Eddy St Providence 3 RI UN 1-
 0504
 Gardiner Electronics Co 2545 E Indian School Rd
 Phoenix Ariz CR 4-9681
 Gardner-Denver Co Front St Quincy Ill BA 2-5400
 Gardner Lab Inc P O Box 5728 Bethesda 14 Md
 OL 6-3600
 Gar Precision Parts Inc 703 Pacific St Stamford
 Conn FI 8-2671
 Garlock Packing Co 402 Main St Palmyra NY 480
 Garrard Sales Corp 80 Shore Rd Port Washington
 NY PD 7-7700
 Garrett Corp AirResearch Mfg Co Div 9851 Sepulveda
 Blvd Los Angeles 45 Calif OR 2-0131
 Gary Wells Co 361 Rockaway Ave Valley Stream NY
 LO 1-2934
 Gates & Co Geo W Hempstead Tpk & Lucille Ave
 Franklin Square LI NY FI 7-0787
 Gates Electronic Co 2090 Barnes Ave Bronx 62 NY
 TY 2-6490
 Gates Radio Co 123 Hampshire St Quincy Ill BA 2-
 8202
 Gavitt Wire & Cable Co Central St Brookfield Mass
 VO 7-3600
 G-C Electronics Div General Cement Texton 400 S
 Wyman St Rockford Ill 2-6695
 Gear Specialties Inc 2635 W Medill Ave Chicago 47
 Ill DI 2-3200
 Gear Systems Inc Main St Concord Mass TU 7-2971
 Geartronics Corp 52 Nashua St Woburn Mass
 Gee-Lar Mfg Co 418 S Wyman St Rockford Ill 2-6695
 Geisler Labs P O Box 252 Menlo Park Calif EM 6-
 4127
 Gem Ear Phone Co Inc 89 E Jericho Tpk Mineola
 N Y
 Gemex Corp 1200 Commerce Ave Union NJ MU
 6-4100
 Genalex Div British Industries Corp 80 Shore Rd
 Port Washington N Y PD 7-7700
 General American Transportation Corp 135 S LaSalle
 St Chicago 90 Ill FI 6-4100
 General-American Valve Co P O Box 444 Corona Del
 Mar Calif OR 3-2326
 General Automatic Corp 12 Carlton Ave Mountain
 View NJ

General Bronze Corp 711 Stewart Ave Garden City
 NY PI 1-4400

GENERAL BRONZE SALES-ENGINEERING OFFICES

Philip Andress
 3823 Oak Road
 Philadelphia 9, Penna.
 Victor 4-9100

Charles R. Long
 1210 Canterbury Drive
 Burlingame, Calif.
 Diamond 3-8537

Harold G. Emmons
 834 Cumberland Ave.
 Syracuse, New York
 Granite 2-0702

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 INTEGRATED ANTENNA SYSTEMS
 from transmitter output to receiver
 input... it's all General Bronze.



GENERAL BRONZE
 ELECTRONICS DIVISION
 Garden City, N. Y.

General Cable Corp 420 Lexington Ave New York 17
 NY LE 2-2920
 General Cement Mfg Co Div Texton Inc 400 S Wy-
 man St Rockford Ill 2-6695
 General Ceramics Corp Keasbey NJ VA 6-5100
 General Chemical Div Allied Chemical & Dye Corp 40
 Rector St New York 6 NY HA 2-7300
 General Coil Products Corp 147-12 Liberty Ave
 Jamaica 35 N Y AX 1-8390
 General Communication Co 677 Beacon St Boston 15
 Mass CO 7-6030
 General Components Inc 225 E 144 St Bronx 51 NY
 MD 5-0740
 General Control Co 1200 Soldiers Field Rd Boston
 34 Mass ST 2-7440
 General Controls Co 801 Allen Ave Glendale 1 Calif
 VI 9-2181
 General Crystal Co P O Box 9 Burlington Wisc RO
 3-2425
 General Devices Inc P O Box 253 Princeton NJ LY
 9-4507
 General Electric Co Construction Materials Div 1285
 Boston Ave Bridgeport 2 Conn ED 4-1012
 General Electric Co Ltd of England c/o IMTRA Corp
 58 Charles St Cambridge 41 Mass UN 4-4350
 General Electric Co Computer Dept 1103 N Central
 Ave Phoenix Ariz AL 4-3171
 General Electric Co Chemical Materials Dept 1 Plas-
 tics Ave Pittsfield Mass 8223
 General Electric Co Magnetic Materials Sec 7800 N
 New Rd Edmore Mich WA 7-5151
 General Electric Co Dist Assemblies Dept 41 Wood-
 ford Ave Plainville Conn SH 7-1671
 General Electric Receiving Tube Dept 316 E 9 St
 Owensboro Ky MU 3-2401
 General Electric Co Insulator Dept S Charles &
 Cromwell St Baltimore 30 Md
 General Electric Co Box 237 Roosevelt Park Annex
 Detroit 32 Mich JE 6-9100
 General Electric Co Specialty Electronic Components
 Dept W Genesee St Auburn NY 3-7321
 General Electric Co 10 Mansion St PO Box 278
 Consoackie N Y 6-5621
 General Electric Co Capacitor Dept John St Hudson
 Falls NY 4-3341
 General Electric Co Ltd of England 80 Shore Rd Port
 Washington NY PD 7-7700
 General Electric Co Apparatus Sales Div 1 River Rd
 Schenectady 5 NY FR 4-2211
 General Electric Co Power Tube Dept Bldg 207
 Schenectady 5 N Y FR 4-2211
 General Electric Co Cathode Ray Tube Dept Bldg 6
 Electronics Park Syracuse N Y GR 6-6411

ALPHABETICAL LISTING of MANUFACTURERS with LOCALIZER INDEX

General Electric Co Communication Products Dept
Syracuse NY 76-4411
General Electric Co Heavy Mil Electronic Equip Dept
Syracuse N Y GR 6-4411
General Electric Co Semiconductor Products Dept 1224
W Genesee St Syracuse N Y GR 6-4411
General Electric Co Light Military Electronic Equip
Dept French Rd Utica NY 5-3311
General Electric Co Silicone Products Dept Water-
ford NY AD 8-3330
General Electric Co Outdoor Light Dept Henderson-
ville N C OX 2-1431
General Electric Co Jet Engine Dept Bldg 501
Cincinnati 15 Ohio
General Electric Co Lamp Leads & Bases Dept Nela
Park Cleveland 12 Ohio GL 1-6600
General Electric Co Lamp Wire & Phosphors Dept
1331 Chardon Rd Cleveland 17 Ohio KE 1-5050
General Electric Co Coshocton Ohio 1914

General Electric Company Laminated
Products Department Textolite In-
dustrial Laminates-Sheets-Copper-
Clad Sheets-Tubes-Rods—Coshocton,
Ohio, Phone 1914

Industrial Sales Manager: B. F.
Brethel
Technical Service Manager: R. T.
Walsh
Engineering Manager: Dr. J. J. Pyle
General Manager: D. A. Hopper

REGIONAL SALES OFFICES:

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N. Beacon St., Boston 35 (Brighton),
ALgonquin 4-5316

NEW YORK: R. Q. Dixon and R. R.
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York 22, PLaza 1-1311; F. J. Me-
Groder, 3532 James St., Box 1021,
Syracuse 1, HOWard 3-8511

OHIO: H. V. Reichel, 6886 Pearl Rd.,
Cleveland 30, VI 2-1000; J. F.
Tynan, 7030 Reading Road, Room
320-B, Cincinnati 37, REDwood 1-
1150

PENNSYLVANIA: G. S. Velimiesis,
1405 Locust St., Philadelphia 2,
PENnsyacker 5-9028

ILLINOIS: R. W. Kenne and H. L.
Morris, 840 S. Canal St., Chicago
80, WABash 2-5611

CALIFORNIA: Western Fibrous Glass
Products Co., 4423 Fruitland Ave.,
Los Angeles 58; Western Fibrous
Glass Products Co., 739 Bryant
St., San Francisco 7

WASHINGTON: Western Fibrous Glass
Products Co., 2915 First Ave., S.,
Seattle 4

General Electric Co 3198 Chestnut St Phila 4
Penna EV 2-7800
General Electric Co 95 Hathaway St Providence 7
R I ST 1-1800
General Electric Capacitor Dept Electrolytic Capacitor
Prod Sect IRMO S C AL 2-6332
General Electric Co Missile Production Sec Lake-
side Ave Burlington Vt UN 3-3411
General Electric Co Rectifier Dept Mountain View Rd
Lynchburg Va 3-6571
General Electric Co Industry Control Dept P O Box
2488 Roanoke Va DU 9-7011
General Electric Co Specialty Control Dept P O Box
812 Waynesboro Va WH 2-8161
General Electric Co X-Ray Dept 4855 Electric Ave
Milwaukee 1 Wis EV 3-3211
General Electrodynamic Corp 4430 Forest Lane P O
Box 517 Garland Texas BR 6-1163
General Findings & Supply Co Industrial Div Leach
& Garner Bldg Attleboro Mass 1-1155
General Hermetic Sealing Corp 99 E Hawthorne Ave
Valley Stream NY 5-6363
General Industries Co Olive & Taylor Sts Elyria Ohio
2235
General Instrument Corp Automatic Mfg Div 65
Governor St Newark 4 NJ HU 5-2100
General Instrument Corp F W Sickles Div Chicopee
Mass SP 3-6621
General Insulated Wire Works 69 Gordon Ave Providence
5 RI HO 1-2100
General Kinetics Inc 555 23 St S Arlington 2 Va
OT 4-7555
General Machine & Instrument Co Clinton Rd & Rt
46 Caldwell NJ CA 6-7444

General Magnetic Corp 10001 Erwin Ave Detroit 34
Mich WA 1-7558
General Magnetics Inc 135 Bloomfield Ave Bloomfield
NJ PI 8-2400
General Metal Products Co 1010 Centre St Easton Pa
9122
General Mills Inc Chemical Div South Kensington
Rd Kanabakee Ill 2-6751
General Mills Inc Mechanical Div 1620 Central Ave
Minneapolis 13 Minn ST 9-8811
General Nuclear Corp 550 5 Ave New York 32 NY
PL 7-3638
General Photo Products Co 15 Summit Ave Chatham
NJ ME 5-5200
General Plastics Corp 165 3 Ave Paterson 4 NJ AR
4-4710
General Precision Lab Inc 21 N Santa Anita Ave
Pasadena 8 Calif RY 1-5669
General Precision Lab Inc 63 Bedford Rd Pleasant-
ville NY RO 9-5000
General Radio Co 275 Massachusetts Ave Cambridge
39 Mass TR 6-4400
General Railway Signal Co P O Box 600 Rochester
N Y GE 8-1483
General Research & Supply Co 572 S Division Ave
Grand Rapids 3 Mich GL 9-7256
General Resistance Inc 577 E 156 St New York 55
NY CV 2-1500
General RF Fittings Inc 702 Beacon St Boston 15
Mass KE 6-2290
General Scientific Equipment Co 7516 Limekiln Pike
Philadelphia 50 Pa HA 4-1550
General Testing Labs 227 W Chestnut Ave Monrovia
Calif EL 8-0168
General Transformer Co 18240 Harwood Ave Home-
wood Ill 124
General Transistor Corp 91-27 138 Pl Jamaica 35
NY OL 7-9700
General Transistor Western Corp 6110 Venice Blvd Los
Angeles 34 Calif WE 3-5867
General Ultrasonics Co 67 Mulberry St Hartford 3
Conn JA 7-2161
General Vacuum Corp 400 Border St E Boston
28 Mass LO 7-8800
Genisco Inc 2233 Federal Ave Los Angeles 64 Calif
GR 8-1276
Geophysical Specialties Co 4206 Longfellow Ave
Minneapolis 7 Minn
Georator Corp P O Drawer 472 Manassas Va MA 565
George Co P D 5200 N 2nd St St Louis 7 Mo
WA 1-5700
Geotechnical Corp 3712 Haggard Dr Dallas 9 Texas
FL 7-1721
Geotronic Labs Inc 1314 Cedar Hill Ave Dallas 8
Texas WH 6-9123
Gerber Scientific Instrument Co 162 State St Hart-
ford 3 Conn CH 6-8539
Gertly Eng'g Co 2151 N Damen Ave Chicago 47 Ill
HU 6-4054
Gerrards Co A J 1950 Hawthorne Ave Melrose Park
Ill EST 8-2117
Gertz & Co Paul E 4858 N Clark St Chicago 40
Ill LO 1-5897
Gertsch Products Inc 11846 Mississippi Ave Los An-
geles 25 Calif GR 8-7777
Giannini & Co Inc G M Datex Div 1307 S Myrtle
Ave Monrovia Calif EL 9-5381
Giannini & Co G M 918 E Green St Pasadena Calif
RY 1-7152
Gibson Electric Co Bna 553 Delmont Pa HO 3-7701
Gilbert & Baker Mfg Co West Springfield Mass
Gilfilan Bros 1815 Venice Blvd Los Angeles 6 Calif
Gilmore Industries Inc 5713 Euclid Ave Cleveland 3
Ohio HE 2-2828
Girard-Hopkins 1000 40 Ave Oakland 1 Calif KE 2-
8477
Gridler Process Equip Div Natl Cylinder Gas Co
334 E Broadway Louisville 1 Ky JU 7-7551
Gisholt Machine Co 2245 E Washington Ave Madison
10 Wis
Glaser Lead Co 31 Wyckoff Ave Brooklyn 37 NY EV
6-5100
Glaser-Steers Corp 20 Main St Belleville 9 NJ PL
9-7474
Glass & Bro Harry H 10 Van Cortlandt Ave E New
York 68 NY LU 4-4570
Glassteel Products Co 1111 E Elizabeth Ave Linden
N J HU 6-2067
Glass Eng'g Labs Inc 601 O'Neill St Belmont Calif
LY 3-8276
Glass Products Co 30 S Salspuedes St Santa Barbara
Calif WO 6-1585
Glass Products Co 6911 S South Chicago Ave Chicago
37 Ill FA 4-1050
Glass-Solder Eng'g 4232 Temple City Blvd Rose-
meade Calif CU 3-7224
Glastic Corp 4321 Glenridge Rd Cleveland 21 Ohio IV
6-0100
Gleason-Avery Inc 45 Aurelius Ave Auburn NY 3-6021
G-L Electronics Co 2921 Admiral Wilson Blvd Camden
5 NJ WO 6-2780
Glens Falls Lab Bna 685 Glens Falls NY 2-5849
Globe Electrical Mfg Co 1729 W 134 St Gardena Calif
Globe Industries Inc 1784 Stanley Ave Dayton 4
Ohio HE-3741
Glyco Products Co 350 5 Ave New York 1 NY OX
5-5140
G & M Equipment Co 7315 Varna Ave N Hollywood
Calif ST 7-1624
G-M Laboratories Inc 4300 N Knox Ave Chicago 41
Ill PE 6-1800
G M Mfg Co 134 W 26 St New York 1 NY WA 4-
7965
Goat Co Fred 314 Dean St Brooklyn 17 NY TR 5-
0940

Godfrey Mfg Co 1726 N Orchard St Chicago 14 Ill
MO 4-1196
Go Eng'g Co 219 S Mednik Ave Los Angeles 22
Calif AN 1-2183
GoldCo Co 1544 W Glenoaks Blvd Glendale 1 Calif
GN 5-6571
Golden Co 1054 38 St Brooklyn 19 NY GE 6-2476
Goldsmith Bros Smelting & Refining Co 1300 W 59
St Chicago 36 Ill
Gombos Inc Co John 111 Montgomery Ave Irvington
11 N J ES 3-6633
Good-All Electric Mfg Co Good-All Bldg Ogallala
Web 900
Good Electric Corp Natich Mass OL 3-0821
Good Electronics Corp 17-19 Brooks St Newton 58
Mass DE 2-5458
Goodrich Aviation Products Div B F Goodrich Co 500
S Main St Akron 18 Ohio BL 3-1171
Goodrich Chemical Co B F 3135 Euclid Ave Cleveland
15 Ohio UT 1-8200
Goodrich Industrial Products Co B F 500 S Main St
Akron 18 Ohio BL 3-1171
Goodrich Industrial Products Co B F Marietta Ohio
FR 3-6611
Goodrich Sponge Products B F Div B F Goodrich Co
Canal St Shelton Conn RE 5-4651
Goodyear Aircraft Corp 1210 Massillon Rd Akron 15
Ohio RE 3-6361
Gordon Co Claude S 3000 S Wallace St Chicago 16
Ill
Gordon Enterprises 5362 N Cahuenga Blvd N Holly-
wood Calif PO 6-3725
Gorham Corp 250 Glenwood Ave Bloomfield NJ PI
3-6800
Gorn Electric Co 845 Main St Stamford Conn FI 8-
7591
Gorrell & Gorrell 336 Old Hook Rd Westwood NJ
WE 5-1057
Goslin Electric & Mfg Co 2921 W Olive Ave Burbank
Calif YH 8-0776
Gotham Audio Development Corp 2 W 46 St New
York 36 NY CO 5-5411
Gould Corp Jerome F 100 Stewart Ave Brooklyn 37
NY EV 6-3795
Gould-National Batteries Inc E-1201 First National
Bank St Paul 1 Minn CA 2-7471
Gow-Mac Instrument Co 100 Kings Rd Madison NJ
FR 7-3450
GPA Instrument Co 811 Boylston St Boston 16 Mass
CO 7-7540
Graffex Inc 154 Clarissa St Rochester 8 NY LO 2-
8000
Grafo Colloids Corp 310 Wilkes Pl Sharon Pa DI
6-5023
Grafton Eng'g Co 627 Vernon Rd Springfield Pa
Graham Research Inc 666 22nd Ave NE Minneapolis
18 Minn ST 1-482
Gramely Furniture Co Martinsville Va ME 2-9730
Grammer-Halderson Transformer Corp 2734 N Pulaski
St Chicago 39 Ill EV 4-4400
Granco Products Inc 36-07 20 Ave Long Island City
NY RA 1-0400
Grand Coil Winders 14306 Lakeshore Ave Grand
Haven Mich 2496
Grand Ra-Tronics Inc 17360 Hayes Rd Grand Haven
Mich 2496
Grand Transformers Inc Beechtree & Marion Sts
Grand Haven Mich 3106
Grand Associates 996 Commercial St Palo Alto
Calif YO 8-1648
Grant Gear Works 159 W 2 St S Boston Mass
A4 8-4403
Grant Pulley & Hardware Corp High St West Nyack
NY NY7-4400
Graphic Recorders Inc 14 Edgewood Ave Trumbull
Conn AM 8-1349
Graphic Systems 55 W 42 St New York 36 NY WI
7-8444
Graphik Circuits Div Cinch Mfg Corp 100 S Turnbull
Canyon Rd La Puente Calif ED 3-1201
Graphite Metallizing Co 1002 Nepperhan Ave Yonk-
ers NY
Grason-Stadler Co W Concord Mass EM 9-3788
Gravhill Inc 561 Hillgrove Ave LaGrange Ill FL 4-
1040
Gray Instrument Co 200 E Church Lane Philadelphia
44 Pa GE 8-3168
Gray & Kuhn 20 Railroad Ave Roslyn Heights NY
RO 3-4308
Gray Mfg Co 16 Arbor St Hartford 1 Conn AD 3-1271
Gray Pantograph Engraving 200 Washington St Ho-
boken NJ OL 6-6666
Gray Radio Co 501 Forest Hill Blvd W Palm Beach
Fla JU 2-2201
Gray Research & Development Co Hilliard St Man-
chester Conn MI 9-4506
Great Eastern Mfg Co 163-165 Remsen Ave Brook-
lyn 12 NY
Great Lakes Electric Mfg Co 17 S Desclaines St Chi-
cago 6 Ill AN 3-3565
Great Western Div Interelectric Corp Warren Pa
Green Instrument Co 385 Putnam Ave Cambridge 39
Mass EL 4-2989
Greene Corp G G Warren Pa
Greene Co L Charlton 314 Washington St Newton 58
Mass BI 4-1560
Green Instruments Inc H J 1191 Bedford Ave Brook-
lyn 16 N Y MA 2-0116
Greenleaf Mfg Co Div Mandrel Industries 7814 Maple-
wood Industrial Ct St Louis 17 Mo ST 1-5088
Greenlee Tool Co 2136 12 St Rockford Ill 3-4881
Green Rectifier Co 7-10 30 St Fairlawn NJ SW 7-
8100

ALPHABETICAL LISTING of MANUFACTURERS with LOCALIZER INDEX

Greer Hydraulics Inc N Y Int'l Airport Jamaica 30 NY OL 9-9700
 Greer Stop Nut Co 2608 W Flournoy St Chicago 12 III VA 6-1637
 Grem Eng'g Co 923 Longview Rd King of Prussia Penna
 Gremar Mfg Co 7 North Ave Wakefield Mass CR 9-4580
 Griese-Hendry Co 1401 W Carroll Ave Chicago 7 III TA 9-0200
 Griffin Co John 2157 James Ave St Paul 5 Minn MI 8-2810
 Grimsby-Allison Co 407 N Salem Ave Arlington Heights III CL 9-2180
 Grinnell Co 260 W Exchange St Providence 1 RI DE 1-5800
 Griswold Machine Works Post Jefferson NY 8-0170
 Grow-Pin Corp 1125 Hendricks Causeway Ridgefield NJ WH 5-6780
 Gruen Industries Inc Electronic Products Div 9701 Reading Rd Cincinnati 15 Ohio PD 1-0010
 Gruen Mfg Co 2631 Brenner Dr Dallas 20 Texas FL 2-2578
 Guardian Electric Mfg Co 1621 W Walnut St Chicago 12 III CH 3-1100
 Guastavino Co R 660 Main St Woburn Mass W0 0420
 Gudebrod Bros Sitt Co 225 W 34 St New York 1 NY LA 4-5858
 Gudeman Co 340 Muron St Chicago 10 III
 Gudeman Co of Calif 190 Commercial St Sunnyvale Calif
 Guenther Willy K G 39 Humboldt St Nuernberg Germany
 Guid Electronics Inc 383 Broadway New York 13 NY CA 6-2900
 Guild Radio & TV Co 460 N Eucalyptus Ave Inglewood Calif OR 8-7771
 Gulton Industries Inc 212 Durham Ave Metuchen NJ LI 8-2800
 G-V Controls Inc 45 Hollywood Plaza E Orange NJ OR 3-4300
 Gyo Electronics Co 325 Canal St New York 13 NY W0 6-1290
 Hackensack Cable Corp 110 Orchard St Hackensack NJ HU 7-1200

Hackensack Cable Corporation, 117 Orchard Street, Hackensack, New Jersey

Phone: Hubbard 7-1100

Manufacturers of
 Dial Cable
 Extra-Flexible Stainless Steel Cable
 Bronze Antenna Strand and Cable
 Nylon and Plastic Coated Cable
 Galvanized Aircraft Cable
 Monel Cable

Hacker & Co Wm J 82 Beaver St New York 9 NY BO 9-8750
 Hagan Chemicals & Controls Inc 343 4 Ave Pittsburgh 30 Pa CO 1-4722
 Halax Corp 17470 Shelbourne Way Los Gatos Calif EL 4-2720
 Hale-Hen Co 36-14 11 St Long Island City 6 NY EX 2-6020
 Hallamar Electronics Co 8352 Brookhurst Ave Anaheim Calif PR 4-1010
 Haller Raymond & Brown Circleville Rd State College Pa AD 7-7611
 Hallitt Mfg Co 5910 Bowercraft St Los Angeles 16 Calif TE 0-7094
 Hallcrafters Co 4401 W 5 Ave Chicago 24 III VA 6-6300
 Hallikainen Instruments 1341 7 St Berkeley 10 Calif LA 4-3757
 Hall Mfg Co 3901 Wesley Terrace Schiller Park III TU 9-7227
 Hall-Scott Electronics Div 2950 N Ontario St Burbank Calif VI 9-2341
 Hall Sonic Eng'g Co 2402 2 St Peru III IM 67

Halm Instrument Co 100 Glen Head Rd Glen Head NY GL 4-6700
 Halogen Insulator & Seal Corp 10121 Franklin Ave Franklin Park III GL 5-9000
 Haloid Co Haloid St Rochester 3 NY GL 3-9460
 Hamilton Electronics 2726 Pratt Ave Chicago 45 III
 Hamilton Glass Co 2750 W Grand Ave Chicago 12 III EV 4-1300
 Hamilton Kent Mfg Co 427 Grant St Kent Ohio OH 3-9555
 Hamilton Standard Electronics Dept Main St Broad Brook Conn MA 3-1621
 Hamilton Watch Co Hathaway Inst Div 5800 E Newell Denver 22 Colo SK 6-8301
 Hamilton Mfg Co Two Rivers Wisc
 Hamilton Watch Co Allied Products Div Columbia Ave Lancaster Pa EX 4-7161
 Hamlin Inc 1316 Sherman Ave Evanston III GR 5-8244
 Hammlund Mfg Co 460 W 34 St New York 1 NY LO 5-1300
 Hammond Organ Co 4200 W Diversey Ave Chicago 39 III AV 3-200
 Hammer Electronics Co P O Box 531 Princeton NJ PE 7-1320
 Mandel Film Corp 6926 Melrose Ave Hollywood 38 Calif WE 6-5924
 Handy & Harman 82 Fulton St New York 38 NY BE 3-2460
 Handley Electronics Inc 14758 Keswick St Van Nuys Calif ST 0-4481
 Handy & Harman 3625 Medford St Los Angeles 63 Calif AN 2-1115
 Hannifin Co Div Parker-Hannifin Corp 625-D S Wolf Rd Des Plaines III VA 7-1171
 Hancock Lamp Div Enghart Industries Inc 100 Chestnut St Newark 5 NJ MA 4-7100
 Hansen Co Wm 165 Silverbrook Ave Niles Mich Hansen Electronics Co 7117 Santa Monica Blvd Los Angeles 46 Calif HD 9-3052
 Hansen Mfg Co R N 1 Princeton Ind FU 5-3415
 Hanson-Gorill-Brian 85 Hazel Et Glen Cove NY GL 4-7300
 Hanson Van Winkle Munning Co Church St Malawan HJ MA 1-1000
 Harder Co Donald C 3710 Midway Dr San Diego 10 Calif AC 2-5240
 Hardman Co H V 571 Cortlandt St Belleville 9 NJ PL 9-1242
 Hardwick Handle Inc 40 Hermon St Newark 5 NJ WA 2-8200
 Harman-Kardon Inc 520 Main St Westbury LI NY ED 4-1500
 Harmon Lichtenstein & Co 26 Broadway New York 4 NY HA 2-8395
 Harmschlagger Corp Crystal Lake III
 Harger Co H M 8200 Lehigh Ave Morton Grove III OR 4-3000
 Harper Electric Furnace Corp 56 River St Buffalo 2 NY MD-5366
 Harcer-Leader Inc 1046 S Main St Waterbury 20 Conn PL 6-8164
 Harrison Labs 45 Industrial Rd Berkeley Heights NJ CR 3-9123
 Harris Laboratories 474 E 2 St Brooklyn 18 NY UL 3-2738
 Harris Transducer Corp Woodbury Conn CD 3-2116
 Harshaw Chemical Co 1945 E 97 St Cleveland 6 Ohio RA 1-8300
 Hartford City Paper Co South Spring Blvd Hartford City Ind c91
 Hartley Productions Inc 339 E 48 St New York 17 NY EL 5-7762
 Hartley Products Co 521 E 162 St New York 51 NY LU 5-4239
 Hartman Electrical Mfg Co 175 N Diamond St Mansfield Ohio 4219-6
 Hart Mfg Co 128 Bartholomew Ave Hartford 1 Conn JA 5-3491
 Harvey-Wells Electronics Inc North St Southbridge Mass PD 4-4361
 Harwald Co Inc 1245 Chicago Ave Evanston III RO 4-7006
 Harwood Electronics Co 466 W Superior St Chicago 10 III WH 3-0465
 Harworth Mfg Co 409 El Camino Real Menlo Park Calif DA 3-9965
 Massall Inc John Cantigue Rd Westbury LI NY ED 4-6200
 Hastings-Raydist Inc Newcomb Ave Hampton Va 3-6531
 Hathaway Instrument Div Hamilton Watch Co 5800 E Jewell Ave Denver 22 Colo
 Nauman Instruments Co 70 Coolidge Hill Rd Watertown 72 Mass WA 4-8122
 Haves Industries Inc 900 Greenbank Rd Wilmington 8 Dela WY 8-2271
 Hawkins Commercial Electronics Co 920 King St Wilmington 1 Dela DL 4-7771
 Hawley Products Co N 1 Ave St Charles III
 Haydon Co A W 232 N Elm St Waterbury 20 Conn PL 6-4481
 Haydon Switch Inc 536 S Leonard St Waterbury Conn PL 6-7441
 Hayward Electronic Products 1426 W Front St Plainfield NJ 7-1500
 Haynes Labs Inc C W E1 Chandler St Springfield 9 Mass RE 7-3588
 Hays Mfg Co 12 & Liberty Sts Erie Pa 2-3225
 Hayward Scientific Glass Corp 217 N Magnolia Ave Whittier I Calif OX 5-8213
 Hazeltine Electronics Div Hazeltine Corp 59-25 Little Neck Pkwy Little Neck 62 NY FL 7-8700
 H-B Instrument Co American & Bristol Sts Phila Pa DA 9-9125

Healy-Ruff Co 2255 University Ave St Paul 14 Minn MI 6-2701
 Health Co 335 Territorial Rd Benton Harbor Mich WA 5-0051
 Heaton Co 333 Eberst St York Pa 6230
 Heinemann Electric Co Pennsylvania Ave & Plum St Trenton 2 Pa EX 4-1191
 Heinrich Co 711 Concord Ave Cambridge 38 Mass UN 4-4840
 Heinz Electric Co Div Consolidated Electric Lamp 685 Lawrence St Lowell Mass GL 7-7557
 Heinz Mueller Eng'g Co 1906 N Cicero Ave Chicago 39 III BE 7-7686
 Helco Products Corp 7832 Balboa Blvd Van Nuys Calif ST 3-2766
 Helder Mfg Corp 238 Lewis St Paterson NJ AR 1-0900
 Heli-Coil Corp Shelter Rock Lane Danbury Conn PI 3-3851
 Helipet Corp Newport Beach Calif LI 8-0611
 Helko Products Co 243 W 55 St New York 19 NY PL 7-3050
 Hellige Inc 877 Stewart Ave Garden City NY PI 1-3300
 Helwig Co 2544 N 30 St Milwaukee 10 Wisc MI 2-7755
 Hemingway & Bartlett Mfg Co 500 5 Ave New York 36 NY LO 4-0880
 Henrite Products Corp 2514 S 3 St Ironton Ohio 794
 Henry & Miller Industries Inc 675 Garfield Ave Jersey City 5 NJ HE 4-2200
 Heggner Mfg Co Box 408 Round Lake III KI 6-2161
 Hermsaal Co 1101 Lafayette St Elkhart Ind 2-3773
 Hermes Plastics Inc 13 University Pl New York 13 NY AL 4-6894
 Hermetic Connector Corp 481 Washington St Newark NJ MI 2-3398
 Hermetic Pacific Corp 4232 Temple City Blvd Rosemead Calif CU 3-7224
 Hermetic Seal Corp 29 S 6 St Newark 7 NJ MA 3-9400
 Hermetic Seal Transformer Co 555 N 5 St Garland Texas DA 7-5095
 Hermetite Corp 702 Beaton St Boston 15 Mass CO 7-4040
 Herzog Miniature Lamp Works 50-17 5 St Long Island City 1 NY ST 4-2275
 Hetherington Inc Welmar Dr Folcroft Pa LU 3-2100
 Hevi-Duty Electric Co 4212 W Highland Blvd Milwaukee 1 Wisc WE 3-2756
 Hewlett-Packard Co 275 Page Mill Rd Palo Alto Calif
 Hewson Co 443 Broad St Newark 2 NJ HU 3-3000
 Hexacon Electric Co 161 W Clay Ave Roselle Park NJ
 Heyman Mfg Co 147 N Michigan Ave Kenilworth NJ CH 5-2345
 Hickok Electrical Instrument Co 10514 Dupont Ave Cleveland 8 Ohio LI 1-8060
 Hill Eng'g Co 2228 N Hollywood Way Burbank Calif VI 9-2327
 Highland Eng'g Co 90 Magnolia St Westbury NY ED 3-2933
 Highside Chemicals Inc 11 Colfax Ave Clifton NJ PR 7-0626
 High Speed Hammer Co 313 Norton St Rochester 21 NY CO 6-6740
 High Vacuum Equipment Corp 2 Churchill Rd Ningham Mass HI 6-2430
 High Voltage Eng'g Corp Burlington Mass
 Hi-G Inc Bradley Field Windsor Locks Conn NA 3-3338
 Hi-Grade Alloy Corp 1236 S Talman Chicago 8 III LA 2-7960
 Hidebrand John Co 45 Brighton St Belmont 78 Mass IV 4-6240
 Hillburn Electronic Products Co 55 Nassau Ave Brooklyn 22 NY ST 2-3875
 Hill Co C R 35 W Grand River Ave Detroit 26 Mich WO 1-8188
 Hill & Co E Vernon P O Box 185 Lake Geneva Wisc CH 8-3729
 Hill Electronic Eng'g & Mfg Co New Kingstown Pa PD 6-7611
 Hi-Lo TV Antenna Corp 1122 W Newport Ave Chicago 13 III GR 7-1890
 Hinde & Dauch P O Box 861 Sandusky Ohio WA 5-6610
 Hinkle Transformer Co Woods Church Rd Flemington NJ FL-836
 MIQ DIV Aerovox Corp Olean NY
 Hi-Q Div Aerovox Corp Box 68 Myrtle Beach SC 2151
 Hirschman-Pohle Co 120 Lent Ave Leray NY LE-265
 Hi-Shear Rivet Tool Co 2600 W 247th St Torrance Calif NE 6-9861
 Hitchiner Mfg Co P O Box 232 Milford NH 635
 Hiltner Wires Inc 1200 Shames Ave Westbury NY ED 3-3600
 Hi-Test Chemical Corp 722-64 St Brooklyn 20 NY TE 6-5991
 Hobart Bros Hobart Square E Troy 3 Ohio FE 2-1223
 Hobbs Mfg Co 26 Salisbury St Worcester 5 Mass PL 6-8361
 Hoffman Bros 4940 W Lawrence Ave Chicago 30 III AV 3-3600
 Hoffman Co P R 321 Cherry St Carlisle Pa 1090
 Hoffman Electronics Corp 3761 S Mill St Los Angeles 7 Calif RI 7-9661
 Hoffman Eng Corp 9th & Tylor Anoka Minn NA 1-2240
 Hoffman Semiconductor Div Hoffman Electronics Corp 930 Pinner Ave Evanston III UN 9-9850
 Hogan Labs Inc 155 Perry St New York 14 NY CH 2-7855
 Holiday Transformer Co 2954 N SheMeld Ave Chicago 14 III BU 1-8190
 Holland Electronics 772 E 53 St Brooklyn NY

ALPHABETICAL LISTING of MANUFACTURERS with LOCALIZER INDEX

Hollingsworth Co Phoenixville Pa 8947
 Holt Instrument Labs Div Holt Warkwood Co Inc
 Oconto Wisc 163-164
 Holtzer Cabot Div Nat'l Pneumatic Co 125 Amory St
 Boston 19 Mass JA 4-7000
 Holub Industries Inc 413 De Kalb Ave Sycamore Ill
 2161
 Holyoke Wire & Cable Corp 720 Main St Holyoke
 Mass JE 3-3961
 Homelite Div Textron Inc 67 Riverdale Ave Port
 Chester NY WE 9-3400
 Hommel Co 209 4 Ave Pittsburgh 22 Pa WA 1-
 1195
 Honeycomb Co of America 3 Burroughs St Bridgeport
 Conn ED 4-3155
 Hooper Chemical Corp P O Box 313 Rutherford NJ
 WE 9-0624
 Hoover Electronics Co 112 W Timonium Rd Timonium
 Md VA 5-5200
 Hopkins Eng'g Co 1290 Foothill Blvd San Fernando
 Calif EM 1-8693
 Horizon Inc 2905 E 79 St Cleveland Ohio BR 1-1600
 Horlicke Co Wm I 266 Summer St Boston 10 Mass
 HA 6-2480
 Hoskins Mfg Co 4445 Lawton Ave Detroit 8 Mich TY
 5-2865
 Hosking Alloys of Canada Ltd 45 Racine Rd Rex-
 dale P O Toronto Ont Canada CH 4-1145
 Hotpoint Co Div General Electric Co 5600 Taylor St
 Chicago 44 Ill
 Houghton Laboratories Inc 322 Houghton Ave Olean
 NY 2-2176
 Houlthan Co T J 2508 W Lawrence Ave Chicago 25
 Ill LD 1-0580
 Houston Fearless Div Color Corp of America 11601
 W Olympic Blvd Los Angeles 64 Calif BR 2-4331
 Howard Crystal Holders Inc 2600 Grand Ave Kansas
 City 8 Mo BA 1-3800
 Howard Foundry Co 1700 N Kostner Ave Chicago 39
 Ill CA 7-4500
 Howard Industries Inc 1760 State St Racine Wisc ME
 2-2731
 Howell Electric Motors Co 409 N Roosevelt Howell
 Mich 20
 Howell Instrument Co 3101 Trinity St Ft Worth 7
 Texas ED 5-5474
 Hoyt Electrical Instrument Works 42 Carleton St
 Cambridge 42 Mass EL 4-1643
 Hubbard Scientific Labs 1292 E 3 St Pomona Calif
 LY 9-2383
 Hubbell Inc Harvey Bridgeport 2 Conn ED 3-1181
 Huch Mfg Co 2480 Bellevue Ave Detroit 7 Mich WA
 1-6207
 Hudson American 250 Borden Ave Long Island City
 NY ST 6-2100
 Hudson Lamp Co 528 Elm St Kearny NJ KE 2-4834
 Hudson Tool & Die Co 18 Malvern St Newark 5 NJ
 MA 3-7584
 Hudson Wire Co Winsted Div 981 Main St Winsted
 Conn Frontier 9-3341
 Hulco Industries 2815 W Olive Ave Burbank Calif
 VI 9-2118
 Huggins Labs Inc 711 Hamilton Ave Menlo Park
 Calif DA 3-0013
 Hughes Aircraft Co Florence & Teale St Culver City
 Calif EX 8-2711
 Hughes Aircraft Co Semiconductor Div Int'l Airport
 Station Los Angeles 45 Calif DR 2-5011
 Hughes Products Hughes Aircraft Co 5340 W 104 St
 Int'l Airport Sta Los Angeles 45 Calif DR 2-5011
 Huxley & Phillips 3200 N San Fernando Blvd Bur-
 bank Calif
 Multi-Standard Corp Davisville Rd at Pa Trunk Nat-
 boros Pa OS 5-5000
 Huxley Inc 2805 Caren St San Diego Calif AC
 3-1634
 Hunt Corp 453 Lincoln St Carlisle Pa 1486
 Hunt Co Philip A Foot of Roosevelt Pl Palisades
 Park NJ LE 4-4000
 Hunter Spring Co 1 Spring Ave Lansdale Pa UL 5-
 6838
 Hunter Tools 9851 Alburta Ave Whittier Calif OX
 9-3917
 Hupp Electronics Co Div Hupp Corp 743 Circle Ave
 Forest Park Ill MA 6-7244
 Hupp Electronics Co Div Hupp Corp 265 E Pomfret
 St Carlisle Pa 1495
 Huppert Co K H 6830 Cottage Grove Ave Chicago 37
 Ill MI 3-4770
 Hupp Instru/mation Co 2119 Sepulveda Blvd Los An-
 geles 25 Calif GR 8-9911
 Huron Industries P O Box 557 Port Huron Mich
 YU 4-4213
 Hum Liberty Mica Co Peabody Industrial Center Pea-
 body Mass JE 1-7100
 Hym Eastern Inc 75 Cambridge Pkwy Cambridge 42
 Mass UM 4-7200
 Hycor Div Int'l Resistance Co 1297D Bradley Ave
 Sylmar Calif EM 5-3125
 Hydraulic Press Mfg Co Div Koehring Co Marion Rd
 Mt Gilead Ohio 35
 Hydro Molding Co 100 Sharron Ave Plattsburgh NY
 286
 Hy-Gain Antenna Products Co 249 N 48 St Lincoln
 Neb 6-1916
 Hyperion Inc 1447 Washington St W Newton Mass
 DE 2-9192
 I D E A Inc 7900 Pendleton Pl Indianapolis 26
 Ind LI 7-3581
 Ideal-Aeromath Inc 12909 S Cerise Ave Hawthorne
 Calif OR 8-4738
 Ideal Arrowsmith Inc 3913 Evans Ave Cheyenne Wyo
 7-7715
 Ideal Electric & Mfg Co 300 E 1 St Mansfield Ohio
 7135
 Ideal Industries Inc 5127 Park Ave Sycamore Ill 2114

Ideal Precision Meter Co 126 Greenpoint Ave Brook-
 lyn 22 NY EV 3-6904
 Ideas Inc 214 Innonson Ave Laramie Wyo FR 5-2597
 Identification Service Corp 1-4 W 46 St New York
 36 NY JU 2-4725
 IE Mfg 325 N Hoyne Ave Chicago 12 Ill MA 1-1480
 Iig Electric Ventilating Co 2850 N Pulaski Rd Chi-
 cago 41 Ill KI 5-1320
 Illinois Condenser Co 1616 N Throop St Chicago 22
 Ill EV 4-1300
 Illinois Testing Labs Inc 420 N LaSalle St Chicago 18
 Ill WH 3-1331
 Illinois Tool Works Licon Div 2501 N Keeler Ave
 Chicago 39 Ill CA 7-2200
 Illumitronic Eng'g Co 680 E Taylor Ave Sunnyside
 Calif RE 9-2395
 I-L-S Instrument Corp 4525 W 160 St Cleveland 11
 Ohio CL 2-3850
 Impact-O-Graph Corp 1900 Euclid Ave Cleveland 15
 Ohio CH 1-5838
 Improved Seamless Wire Co 775 Eddy St Providence 5
 RI MO 1-0855
 Indiana Steel Products Co 405 Elm St Valparaiso
 Ind 2-5601
 Indiana Steel & Wire Co 700 S Council St Muncie
 Ind AT 8-8841
 Indigon Co 76 Coolidge Hill Rd Watertown 72 Mass
 WA 4-2198
 Indium Corp of America 1676 Lincoln Ave Utica 3
 NY 2-1139
 Induction Heating Corp 181 Wythe Ave Brooklyn 11
 NY EV 4-3110
 Induction Motors Corp 570 Main St Westbury L I
 NY ED 4-7070
 Inductor Eng'g Inc 117 Schley Ave Lawes Dela
 DE-2341
 Industrial Accessories Inc Line Rd Matawan NJ MA
 1-4448
 Industrial Acoustics Co 341 Jackson Ave New York
 54 NY CY 2-0180
 Industrial Condenser Corp 3243 N California Ave
 Chicago 18 Ill IN 3-2200
 Industrial Control Co 805 Albin Ave Lindenhurst L I
 NY MD 1-0600
 Industrial Development Eng'g Assoc 7900 Pendleton
 Pk Indianapolis Ind LI 7-3581
 Industrial Development Labs Inc 17 Pollock Ave
 Jersey City 5 NJ WE 5-0100
 Industrial Devices Inc 982 River Rd Edgewater NJ
 WH 3-4084
 Industrial Electrical Works 1509 Chicago St Omaha
 2 Neb RE-4600
 Industrial Electronic Controls 2271 E 14 St Brooklyn
 29 NY ES 5-5259
 Industrial Electronic Engineers 3973 Lankershim Blvd
 N Hollywood Calif SY 7-1484
 Industrial Electronics Inc 8060 Wheeler St Detroit 10
 Mich TY 8-7600
 Industrial Eng'g & Equip Co 24 Hanley Industrial Ct
 Brentwood St Louis 17 Mo MI 7-3380
 Industrial Engineers Inc 2212 McDonald Ave Brooklyn
 23 NY HI 9-2030
 Industrial Hardware Mfg Co 109 Prince St New York
 12 NY OR 7-1681
 Industrial Instruments Inc 89 Commerce Rd Cedar
 Grove NJ PI 6-3300
 Industrial Nucleonics Corp 1205 Chesapeake Ave
 Columbus 12 Ohio NU 8-0671
 Industrial Products Co Div Danbury-Knudsen Box 148
 Danbury Conn SP 5-2521
 Industrial Radio Corp 428 N Parkside Ave Chicago
 44 Ill AU 7-8888
 Industrial Research Labs Div Aeronica Mfg Corp Hill-
 top & Frederick Rds Baltimore 28 Md RI 7-0200
 Industrial Retaining Ring Co 57 Cordier St Irvington
 11 NJ WA 6-5000
 Industrial Systems Co 32 Main St Matawan NJ MA
 1-4660
 Industrial Test Equipment Co 55 E 11 St New York
 3 NY GR 3-4684
 Industrial Timer Corp 1407 McCarter Hwy Newark 4
 NJ HU 2-4500
 Industrial Transformer Corp Gouldsboro Pa VI 2-2111
 Industrial Tubes Inc 321 Stevens St Geneva Ill
 GE-806
 Industrial TV Inc 369 Lexington Ave Clifton NJ
 GR 3-0900
 Industrial Washing Mach Corp 32 Main St Matawan
 NJ
 Industrial Winding Machinery Co 120 Wall St New
 York 5 NY WH 3-1754
 Industrial Wiring & Cable Co 103 Foundry St Wate-
 rfield Mass CR 9-3626
 Industriatics P O Box 424 Arlington Nts Ill CL
 3-5831
 Instro Transistor Corp 35-10 36th St Long Island
 City 6 NY EX 2-8800
 Inertia Switch 527 Lexington Ave New York 17 NY
 PL 5-1583
 Infra Electronic Corp 47 Factory Pl Cedar Grove NJ
 CE 9-2000
 Ingersoll-Rand Co 11 Broadway New York 4 NY DI
 4-6070
 Injection Molders Supply Co 3514 Lee Rd Cleveland
 20 Ohio WY 1-1424
 Inland Electronics Corp 500 Rathbone Ave Aurora Ill
 6-7744
 Inso Co Div Barry Controls Hollis St Groton Mass
 GI 8-6358
 Inso Products Ltd 404 Fifth Ave New York 18 NY
 WI 7-4708
 Instrumentation Associates 17 W 60 St New York 23
 NY CI 5-5590
 Instrument Cases Inc 510 W Garfield St Glendale 4
 Calif CH 5-5767
 Instrument Corp of Fla P O Box 1226 Bldg 14
 Melbourne Fla AI 2900

Instrument Development Labs Inc 67 Mechanic St
 Attleboro Mass AT 1-3880
 Instrument Electronics Corp 90 Main St Port Wash-
 ington NY PO 7-4242
 Instrument Labs 315 W Walton Pl Chicago 10 Ill
 WI 2-0123
 Instrument Resistors Co 1036 Commerce Ave Union
 NJ MU 6-4363
 Instruments for Industry Inc 150 Glen Cove Rd
 Mineola NY PI 2-5300
 Instruments Inc 122 N Madison St Tulsa Okla CH
 2-4151
 Insul-B-Electronics 1369 Industrial Rd San Carlos
 Calif LY 3-8003
 Insulating Fabricators Inc 150 Union Ave E Ruther-
 ford NJ WE 9-7392
 Insulating Fabricators of N E Inc 69 Grove St
 Andover 72 Mass WA 3-9800
 Insulation Wire Corp 565 W Washington Blvd Chicago
 39 Ill CE 6-7320
 Insulation & Wires Inc 1534 Swinney Ave Ft Wayne
 Ind 4-4115
 Insuline Corp of America 186 Granite St Manchester
 NH MA 5-8511
 Integrated Mica Corp 202 Franklin Pl Woodmere
 L I NY FR 4-2350
 Intelligent Machines Research Corp 7019 Edsall Rd
 Research Park Alexandria Va FL 4-5000
 Intercontinental Dynamics Corp 170 Coolidge Ave
 Englewood NJ LD 7-3600
 Interelectronics 2432 Grand Concourse New York 58
 NY LU 4-6200
 Interference Measurement Lab Inc 907 E 51 St
 Brooklyn 3 NY IN 9-1765
 International Business Machines Corp 590 Madison
 Ave New York 22 NY PL 3-1900
 International Crystal Mfg Co 18 N Lee Ave Oklahoma
 City 1 Okla FO 5-1165
 International Electronic Industries P O Box 1368
 Nashville 3 Tenn AL 4-7879
 International Electronic Research Corp 145 W Mag-
 nolia Blvd Burbank Calif VI 9-2481
 International Electronics Corp 21 Spring St New
 York 12 NY WD 6-0790
 International Eng'g Inc 1145 Bolander Ave Dayton 1
 Ohio AD-7275
 International Instruments Inc Box 2954 New Haven
 15 Conn PU 7-2515
 International Nickel Co 67 Wall St New York 5 NY
 WH 4-1000
 International Powder Metallurgy Co 439 W Main St
 Ridway Pa 33-125
 Intl Pump & Machine Works 81 Dorcia Ave Livingston
 NJ LI 6-0660
 Int'l Radiant Corp 111 New York Ave Westbury NY
 International Radiant Corp 4 Manhasset Ave Port
 Washington NY PD 7-3184
 International Radio & Electronics Corp R 4 Box 123
 Elkhart Ind EL 2-8583
 International Rectifier Corp 1521 E Grand Ave El
 Segundo Calif OR 8-6281

International Rectifier Corporation,
 1521 East Grand Avenue, El Se-
 gundo, California
 Phone: ORegon 8-6281
 General Sales Mgr.: J. T. Cataldo
 Mgr. Military Sales Dept.: R. F.
 Edwards

BRANCH OFFICES:
 NEW YORK: 132 E. 70th St., Ph.
 TRafalgar 9-3330

CHICAGO: 205 W Wacker Dr., Ph.
 FRanklin 2-3888

PHILADELPHIA: Suburban Square
 Bldg., Ardmore, Ph. Midway H-
 142H

BOSTON: 17 Dunster St., Cambridge,
 Ph. UNIVERSITY 4-6620

CANADA: Atlas Radio Corp., 50
 Wingold Ave., Toronto 19, Ph.
 RU 16174

(Representatives throughout the United
 States)

International Register Co 2670 W Washington Blvd
 Chicago 12 Ill VA 6-4242
 International Research Associates 2221 Warwick Ave
 Santa Monica Calif TE 0-4415
 International Research & Development Corp 797
 Thomas Lane Columbus 16 Ohio AM 8-8601
 International Resistance 401 N Broad St Philadelphia
 8 Pa

ALPHABETICAL LISTING of MANUFACTURERS with LOCALIZER INDEX

- International Scientific Industries Corp 2374 E Hiway 24 Colorado Springs Colo ME 2-5149
 International Telemeter Corp (C) Stoner Ave Los Angeles 25 Calif GR 8-7751
 International Telephone & Telegraph Corp 67 Broad St New York 4 NY BD 9-1007
 International Wax Refining Co 99 E Hawthorne Ave Valley Stream NY LD 1-2500
 Interstate Electronics Corp 707 E Vermont Ave Anaheim Calif PR 5-6540
 Investment Casting Co 60 Brown Ave Springfield NJ DR 6-6260
 I Q Industries 1714 Westwood Blvd Los Angeles 24 Calif GR 3-4310
 Irco Corp 16 Hudson St New York 13 NY RE 2-2996
 Iron Firearm Mfg Co Electronics Div 2838 S E 9 Ave Portland 2 Ore BE 4-6551
 Irving Div Minn Mining & Mfg Co 11 Argyle Terrace Irvington 11 NY
 Irwin Labs 1238 S Gerhart Ave Los Angeles 22 Calif RA 3-1819
 Islip Transformer & Metal Co Beech St Islip NY JU 1-0950
 Isobutyl Resins Corp 221 Oak St Providence 9 RI JA 1-5768
 Isocyanate Products Inc 900 Wilmington Rd New Castle Del EA 8-5661
 Isolantite Mfg Corp Warren Ave Stirling NJ MI 7-0385
 Isomet Corp 118 Union St Palisades Park NJ WI 4-3070
 Isotope Accessories Co 5950 Irving St Phila 43 Pa SH 8-1330
 Isotope Products 1711 Elmwood Ave Buffalo 7 NY VI-2488
 Isotopes Inc 123 Woodlawn Ave Westwood NJ ND 4-7070
 Isotopes Specialties Co Box 688 Burbank Calif VI 9-2213
 I-T-E Circuit Breaker Co Special Products Div 601 E Erie Ave Philadelphia 34 Pa GA 6-5700
 Ivanhoe Electronic Labs 14238 S La Salle St Chicago 27 Ill RI-0456
 Jack & Heintz Inc 17600 Broadway Cleveland 1 Ohio MO 2-1000
 Jacks-Ernie Mfg Co 4427 Geraldine Ave St Louis 15 Mo EV 5-8050
 Jack Scientific Instrument Co Bill 143 Cedros St Solana Beach Calif SK 5-1551
 Jackson Electrical Instrument Co 18 S Patterson Blvd Dayton 2 Ohio MI 0367
 Jackson Electronics Inc 23 Woodcrest Rd West Chester Pa
 Jacksonville Metals Plastics Co 575 Dara St Jacksonville Fla EL 6-4864
 Jacobs Instrument Co 4718 Bethesda Ave Bethesda 14 Pa DL 4-8100
 Jacobson Nut Mfg Corp Box 177 Kenilworth NJ MU 6-0200
 Jaidinger Mfg Co 1921 W Hubbard St Chicago 22 Ill MA 1-1090
 Ja-Mac Products Co BBS N E Sandy Blvd Portland 20 Ore AT 2-4418
 James Instrument Lab 9110 S 52 Ct Oak Lawn Ill GA 4-3943
 James Plating Works Inc 1609 N Elston Ave Chicago 14 Ill BU 1-2462
 James Pond & Clark 2181 E Foothill Blvd Pasadena Calif SY 3-9195
 James Vibrapower Co Acam Div 109 W 8 St Gibson City Ill 844
 Janco Corp 3111 Winona Ave Burbank Calif TH 8-5792
 Janette Electric Mfg Co 8350 Lehigh Ave Merton Grove Ill DR 3-8300
 Jan Hardware Mfg Co 75 N 11 St Brooklyn 11 NY EV 7-3541
 Jansa Woodworking Corp 350 Meserole St Brooklyn 6 NY EV 1-5521
 Jarrill-Ash Co 26 Farwell St Newtonville 60 Mass DE 2-2130
 Jarvis Electronics Corp 1140 Cherry St Winnetka Ill WI 6-1255
 Javez P O Box 646 Redlands Calif PY 3-5752
 J-B-L Instrument Co Sycamore & Mill Rd Clifton Heights Pa MA 3-4377
 Jeffers Electronics Div Spear Carbon Co Hoover Ave Auburns Pa 2100
 Jefferson Electronic Products Corp 322 State St Santa Barbara Calif WO 5-8505
 Jefferson Inc Ray 40 E Merrick Rd Freeport NY FR 8-4400
 Jefferson Products Corp Pleasant Valley Rd Sutton Mass UN 5-4447
 Jeffrey Mfg Co 803 N 4 St Columbus 16 Ohio AX 4-3331
 Jelliff Mfg Corp C O Southport Conn CL 9-1615
 Jennings Radio Mfg Corp 970 McLaughlin Ave San Jose 8 Calif CY 2-4025
 Jensen Industries Inc 7333 Harrison St Forest Park Ill FD 6-0180
 Jensen Mfg Co 6601 S Laramie Ave Chicago 38 Ill PD 7-7600
 Jerold Electronics Corp 23 & Chestnut Sts Philadelphia 3 Pa LO 4-0707
 Jersey Specialty Co Burgess Pl Mountainview NJ LI 4-0784
 Jessall Plastics Inc Div Electric Storage Battery Co 889 Farmington Ave Kensington Conn VA 8-3526
 Jettron Products Route 10 Hanover NJ TU 7-0571
 JFD Mfg Co 6101 16 Ave Brooklyn 4 NY DE 1-1000
 Jo-Bell Products Inc 5456 W 111 St Oak Lawn Ill GA 5-0240
 Joclin Mfg Co Lufbery Ave Wallingford Conn CO 9-8708
 Jodee Plastics Co 213 Shepherd Ave Brooklyn 8 NY AP 7-9276
 Johns-Manville 22 E 40 St New York 16 NY LE 2-7600
 Johns-Manville Dutch Brand Div 7800 Woodlawn Ave Chicago 19 Ill SA 1-1000
 Johnson Aircraft Eng'g Co # J Box 10 Morristown Airport Morristown NJ JE 8-9100
 Johnson Bronze Co S Mill St New Castle Pa OL 4-6631
 Johnson Co E F Waseca Minn 990
 Johnson Corp 805 Wood St Three Rivers Mich 2-1715
 Johnson Electronics Inc P O Box 1675 Hwy 17-92 Casselberry Fla MI 4-3311
 Johnson & Hoffman Mfg Corp 31 E 2 St Mineola NY PI 2-3333
 Johnson Mfg Co 616 1st Ave Mt Vernon Iowa 3651
 Johnson Research Corp Bethpage L I NY WE 8-4600
 Johnson Service Co 507 E Michigan St Milwaukee 1 Wisc BR 6-9280
 Johnson-Williams Inc 2635 Park Blvd Palo Alto 15 Calif DA 3-4131
 Johnston Foil Mfg Co 6008 S Broadway St Louis 11 Mo HU 1-7000
 Johnston & Funk Titanium Corp W Kemora Ave Wooster Ohio
 Jones Div Howard B Cinch Mfg Co 1026 S Homan Ave Chicago 24 Ill RE 2-1800
 Jones Electronics Co M C 205 N Main St Bristol Conn LI 2-6388
 Jones Electronics Hiram 2313 W Olive St Burbank Calif TH 8-6685
 Jones & Laughlin Steel Corp 3 Gateway Center Pittsburgh 30 Pa CO 1-7400
 Jones Optical Works A D 2400 Massachusetts Ave Cambridge 40 Mass TR 6-3369
 Jones & Wellfist Eng'g Corp 11780 W Pico Blvd Los Angeles 64 Calif GR 7-3247
 Jordan Co 3235 W Hampton Ave Milwaukee 9 Wisc Jordan Electronics Inc Sub Panelit Inc 3025 W Mission Rd Alhambra Calif AT 9-5075
 Joslyn-Hudson Inc Sub Amelco Inc 11982 Wilshire Blvd Los Angeles Calif
 Joy Mfg Co Electrical Products Div 1201 Macdonald Ave St Louis 10 Mo MI 5-6670
 Joy Mfg Co 333 Oliver Bldg Pittsburgh 22 Pa GR 1-2140
 Julie Research Labs 556 W 168 St New York 32 NY LO 8-8700
 J-V-M Eng'g Co 4633 S Lawndale Ave Lyons Ill LY 3-7990
 Kaar Eng'g Corp 2995 Middlefield Rd Palo Alto Calif DA 3-9001
 Kahle Eng'g Co 1307 7 St N Bergen NJ UN 7-6500
 Kahlenberg Bros 1700 13 St Two Rivers Wisc 307
 Kahl Scientific Instrument Corp P O Box 1166 El Cajon Calif MI 4-5944
 Kahn & Co 541 Windsor St Hartford 1 Conn CH 6-7431
 Kahn Research Labs 22 Pine Freeport NY
 Kaiser Aircraft & Electronics Corp Toledo Electronics Div P O Box 437 Toledo Ohio PD 1591
 Kaiser Aluminum & Chemical 919 N Michigan Ave Chicago Ill MD 4-6900
 Kalfari Co Inc Hulteneus St Plainville Conn SH 7-1663
 Kalbfeld Electronics 3434 Midway Dr San Diego 10 Calif AC 3-7303
 Kane Mfg Corp P O Box 641 Kane Pa 1075
 Kane Productions All 1411 Walnut St Philadelphia 2 Pa RI 6-0222
 Kanthal Corp Amelia Pl Stamford Conn FI 8-9251
 Karkron P O Box 472 Huntington Beach Calif Le 9-4606
 Kato Eng'g Co 1415 1 Ave Manhattan Minn 5031
 Katolight Corp 1415 1 Ave Manhattan Minn 5031
 Katolight Corp Box 891 Manhattan Minn
 Kauke & Co 1632 Pico Blvd Santa Monica Calif EX 6-5555
 Kay Electric Co 14 Maple Ave Pine Brook NJ CA 6-4000
 Kay Lab 5725 Kearny Villa Rd San Diego 12 Calif BR 7-6700
 Kaynar Co Box 200 Terminal Annex Los Angeles 54 Calif RI 9-7691
 Kay-Townes Antenna Co Box 593 Rome Ga 4-2631
 Kearfoot Co Western Div 14844 Oxnard St Van Nuys Calif
 Kearsfoot Inc 1378 Main Ave Clifton NJ
 Keasbey & Mattison Co Ambler Pa
 Kedman Co 233 S 5 W Salt Lake City 1 Utah EM 3-8869
 Kees Mfg Co F D 700 Park St Beatrice Nebr 761
 Keil Eng'g Products Co 6833 Manchester Ave St Louis 10 Mo ST 1-3209
 Keithley Instruments Inc 12415 Euclid Ave Cleveland 6 Ohio SW 5-2666
 Keller Products Inc 41 Union St Manchester NH MA 5-7887
 Keller Tool Div Gardner-Denver Co 1333 Fulton St Grand Haven Mich 551
 Keller & Co G G 98 Taylor St Boston 22 Mass AV 2-3700
 Kellogg Co M W P O Box 467 Jersey City 3 NJ DE 3-3100
 Kellogg Switchboard & Supply Co Div I T & T 79 W Monroe St Chicago 3 Ill DE 2-0750
 Kellar Mfg Corp 1355 Market St San Francisco 3 Calif MA 1-0881
 Kelsey-Hayes Co 3600 Military Ave Detroit 32 Mich TA 5-5500
 Kelvin Electric Co 5907 Noble Ave Van Nuys Calif ST 3-2666
 Kemet Co Div Union Carbide & Carbon Corp P O Box 6087 Cleveland 1 Ohio AC 6-3330
 Kemlite Labs Inc 1819 W Grand Ave Chicago 22 Ill TA 9-6050
 Kemode Mfg Co 161 W 18 St New York 11 NY
 Kemtron Electron Products Inc 14 Prince Pl Newburyport Mass MO 2-4464
 Kendall Co Polyan Sales Div 309 W Jackson Blvd Chicago 20 Ill WE 9-7100
 Ken-del Productions 920 King St Wilmington 1 Dela OL 4-7771
 Kennedy & Co D S 155 King St Cohasset Mass CO 4-1200
 Kennedy Industries 6808 Vista Del Mar Playa del Rey Calif EX 1-4461
 Kennametal Inc Lloyd Ave Latrobe Pa KE 7-3311
 Kent Co F C 64 Howard St Irvington 11 NJ ES 3-5500
 Kent Lighting Corp 500 Johnson Ave Brooklyn 37 NY NY 7-1820
 Kent TV Inc 505 Driggs Ave Brooklyn 11 NY EV 8-2272
 Kenwood Eng'g Co 265 Colfax Ave Kenilworth NJ CH 5-0100
 Kenyon Transformer Co 840 Barry St New York 59 NY KI 2-4500
 Keogo Labs 131-38 Sanford Ave Flushing NY IN 4-6555
 Kessler Chemical Co Inc State Rd & Cottman Ave Phila 35 Pa DE 2-6565
 Kester Solder Co 4201 Wrightwood Ave Chicago 39 Ill BE 5-1601
 Key Electric Corp 287 Post Ave Westbury NY ED 4-6555
 Key Restor Corp 321 W Redondo Beach Blvd Gardena Calif DA 3-5000
 Keystone Bolt & Nut Corp 125 Church St New York 7 NY WO 4-4600
 Keystone Carbon Co 1935 State St St Marys Pa 41-591
 Keystone Electronics Co 65 7 Ave Newark 4 NJ HU 2-0530
 Keystone Electronics Corp 49 Bleeker St New York 12 NY GR 5-4600
 Keystone Products Co 904 23 St Union City NJ UN 6-5400
 K-F Development Co 2606 Spring St Redwood City Calif SM 8-5670
 Kibby Instrument Co P O Box 50 Perkins Calif GL 1-6571
 Kiddle & Co Walter 1156 Main St Belleville 9 NJ PL 9-5000
 Kieley & Mueller Inc 64 Genung St Middletown NJ DI 2-2526
 Kilgen Aircraft Div Kilgen Organ Co 4632 W Florissant Ave St Louis 15 Mo CO 1-2000
 Kimble Glass Co Sub Owens-Ill Glass Co P O Box 1035 Toledo 1 Ohio CH 2-6543
 Kine-Lab 3250 Kenilworth Ave Berwyn Ill GU 4-2677
 Kinetics Corp 410 S Cedos Ave Solomons Beach Calif SK 5-1181
 Kinetics Corp 2 Churchill Rd Hingham Mass HI 6-2433
 King Electric Equipment Co 9123 Inman Ave Cleveland 5 Ohio DI 1-1066
 Kinevox-Hallen Div Electromation Co 1646 18 St Santa Monica Calif TE 0-6401
 Kings Electronics Co Inc 40 Marblehead Rd Tuckahee NY SW 3-5000
 King Lab Inc 127 Salar St Syracuse 3 NY 74-3359
 King Lab Inc 2645 S 2 St W Salt Lake City 15 Utah
 King-Seelye Corp Signal Electric Div Menominee Mich Kingston Electronic Corp North St Medfield Mass FL 9-4347
 Kinn Electronics Corp 4104 Pinney Rd Baltimore 15 Md RO 4-7918
 Kinney Co Joseph Sycamore St Carnegie Pa BR 9-6600
 Kinney Mfg Div Vacuum Equip Div N Y Air Brake Co 3529 Washington St Boston 30 Mass JA 4-3220
 Kintel 5725 Kearny Villa Rd San Diego 12 Calif BR 7-6700
 Kig Electronics Corp 29 Holly Pl Stamford Conn DA 3-5136
 Kirchner & Co M 83 W Forest Ave Englewood NJ EN 3-4555
 Kirkland Co H R 8 King St Morristown 4 NJ JE 8-2777
 Kistler Instrument Corp 15 Webster St N Tonawanda NY JA 2099
 Kit-Tronics 2315 Mendota Dr N E Albuquerque New Mex 9-1089
 Klein Electronics Co Leo 2404 S LaBrea Ave Los Angeles 16 Calif WE 5-3119
 Kleinschmidt Labs Inc County Line Rd Deerfield Ill WI 5-1000
 Klein & Sons Mathias 7200 McCormick Rd Chicago 45 Ill JH 8-6820
 Kline Bros 321 W 50 St New York 19 NY CO 5-0130
 Kliner Locknut Corp 2153 Hillside Ave Indianapolis 18 Ind WA 5-9284
 Kline Iron & Steel Co P O Box 1013-1225-35 Huger St Columbia S C AL 4-0301
 Kling Metal Spinning & Stamping Co 245 Centre St New York 13 NY CA 6-5580
 Klipsch & Associates P O Drawer 96 Hope Ark PR 7-3395
 Klise Mfg Co 51 Cottage Grove St SW Grand Rapids 2 Mich CH 3-3664
 Kluge Electronics Inc 5 & Main St Albion Nebr 64
 Knights Co James Church & Wells Sts Sandwich Ill 2141
 Knopp Inc 1307 66th St Oakland 9 Calif OL 3-1661
 Knowles Electronics Inc 9400 Belmont Franklin Park Ill GL 5-3600
 Kobay Tool Co 1535 N Dayton St Chicago 22 Ill MI 2-6709
 Koch & Sons N Box 127 Corte Madera Calif 1340

ALPHABETICAL LISTING OF MANUFACTURERS with LOCALIZER INDEX

Kocour Co 4800 S St Louis Ave Chicago 32 Ill VI 7-1111
 Koiled Kords Inc 1565 Dixwell Ave New Haven 14 Conn CH 8-5515
 Kollman Case Corp P O Box 180 Ft Wayne 1 Ind H-0919
 Kollmorgen Optical Corp 347 King St Northampton Mass JU 4-0280
 Kollman Instrument Corp Standard Coil Products Sub 80-08 45 Ave Elmhurst 73 NY NE 9-2900
 Koffon Electric Mfg Co 123 N J Railroad Ave Newark 5 NJ NJ 2-4622
 Koflex Glass Co Vineland NJ OX 2-8500
 Kooltron Inc Co Carter Rd at Rosedale Princeton NJ 1-5867W
 Koppers Co Koppers Bldg Pittsburgh 19 Pa EX 1-3300
 Kost Products Co 2335 N Cicero Ave Chicago 39 Ill BE 7-2764
 Krautzer & Co 585 18 Ave Newark 3 NJ ES 3-4000
 Krautter Electric Machine Co 35D Grove St Newark 3 NJ ES 3-1613
 Krengel Mfg Co 227 Fulton St New York 7 NY CO 7-5712
 Kriss Electronics Inc 191 Oraton St Newark 4 NJ HU 4-3137
 Krahn-Mite Corp 580 Massachusetts Ave Cambridge 39 Mass UN 4-4272
 Kroter Eng'g & Devl Co 3022 N 77 Ct Elmwood Park 35 Ill GL 3-2544
 Krueger & Hudepohl 1041 Evans St Cincinnati 4 Ohio WA 1-6770
 Kruger Instruments Harold Box 164 San Gabriel Calif Krylon Inc 18 W Airy St Norristown Pa BR 9-1950
 Krystinor Corp Fox Island Rd Port Chester NY WE 9-2261
 Kulite Tompston Co 1040 Hoyt Ave Ridgefield NJ WH 5-3000
 Kulla Electric Mfg Co 633 S Fulton Ave Mt Vernon NY MO 4-4024
 Kupfrman Mfg Corp 395 State St Binghamton NY 3-6426
 Kurman Electric Co 191 Newel St Brooklyn 22 NY EV 3-8000
 Kurz-Kasch Inc 1421 S Broadway Dayton 1 Ohio AD-8161
 Kuss Industries Inc Tacony & Lewis Sts Philadelphia 2A Pa CU 9-3115
 Kuthe Labs 730 S 13 St Newark 3 NJ BI 3-6000
 K-V Transformer Corp 20 E Franklin St Danbury Conn PI 3-5531
 K-W Eng'g Works 15920 Pin Oak Ct Butler Wisc SU 1-8616
 Kwikheat Mfg Co 3732 San Fernando Rd Glendale 4 Calif CH 5-2376
 Kybernetes Corp 9 E 40 St New York 16 NY MU 3-6030
 Lab Corp E Onondaga Skaneateles NY SK 1161
 Labelon Tage Co 450 Atlantic Ave Rochester 9 NY HU 2-3460
 Labco Scientific Inc 111 W Elm Stillwater Okla 1167
 Labline Inc 3070 W Grand Ave Chicago 22 Ill SA 2-5151
 Laboratory Equipment Corp Lakeview & Hilltop Rd St Joseph Mich YU 3-5534
 Laboratory for Electronics Inc 75 Pitts St Boston 14 Mass RI 2-3200
 Lab-Tronics Inc 3656 N Lincoln Ave Chicago 13 Ill GR 7-7900
 La Cesa Eng'g Corp 5614 W Grand Ave Chicago 39 Ill BE 7-0060
 Laine Electronics & Mfg Co 91 Industrial Ave Little Ferry NJ HU 9-4532
 Lake Mfg Co 2323 Chestnut St Oakland 7 Calif TE 2-2498
 Lamaco Inc 9230 W Grand Ave Franklin Park Ill GL 5-9020
 Lambda Electronics Corp 111-11 131 St College Point 56 NY IH 1-8500
 Lambda-Pacific Eng'g Inc 14725 Armita St Van Nuys Calif ST 6-1801
 Lamb Electric Co Lake St Kent Ohio OR 3-3451
 Laminair Inc 18530 S Broadway Gardena Calif FA 1-0545
 Laminated Sheet Products Corp 449 Neponset St Norwood Mass NO 7-3500
 Laminations Co 300 Main St Stamford Conn FI 8-7013
 La Moree C D 2433 Birkdale St Los Angeles 31 Calif CA 5-5666
 LaMotte Chemical Products Co Chestertown Md CH-1000
 Lamplan Labs Inc R F D 1 Bradenton Fla 3-9982
 Lamson Corp Lamson St Syracuse 1 NY 73-0221
 Lamson & Sessions Co 5000 Tiedeman Rd Cleveland 9 Ohio CL 23700
 Lamtex Industries Inc 51 State St Westbury NY ED 3-2680
 Lancaster Glass Corp Lancaster Ohio OL 3-0311
 Lance Antenna Mfg Co 1730-1802 1st St San Fernando Calif EM 1-8645
 Land-Air Inc Instrument & Electronic Div 2133 Adams Ave San Leandro Calif LD 9-5841
 Land-Air Inc 7444 W Wilson Ave Chicago 31 Ill UN 7-7550
 Landauer Jr & Co R S 3920 216th St Matteson Ill PI 6-7900
 Landis & Gyr 45 W 45 St New York 36 NY JU 6-6444
 Landsverk Electrometer Co 550 W Garfield Ave Glendale 4 Calif CI 1-2954
 Lane Electronics Mfg Corp 7254 Atoll Ave N Hollywood Calif ST 7-3267
 Langerin Mfg Corp 47-37 Austell Pl Long Island City 1 NY RA 9-1850
 Lansdale Tube Company Division of Philco Corporation Church Road Lansdale Pa

Lansing Sound Inc James B 3249 Casitas Ave Los Angeles 39 Calif NO 3-3218
 LaPointe Industries Inc 155 W Main St Rockville Conn TR 5-3351
 Lapp Insulator Co Radio Specialties Div 318 Gilbert St Le Roy NY LE 385
 La Rose & Assoc Inc W T Box F Lans Sta Troy NY CE 7-6500
 Larson Electronic Glass P O Box 371 2426 El Camino Real Redwood City Calif
 Larson Instrument Co 24 Orchard St Tarrytown NY ME 1-3419
 Las-Lab Inc Route 32 Sykesville Md
 Lavoie Labs Inc Malawan-Freehold Rd Morganville NJ MA 1-2600
 Lawn Electronics Co E Freehold Rd Freehold NJ FR 8-0175
 Lawler Chemicals Inc 3550 Touhy Ave Chicago 45 Ill AM 2-8400
 Leach Corp-Inet Div 18435 Susana Rd Compton Calif WE 6-1061
 Leach Corp Leach Relay Div 5915 Avalon Blvd Los Angeles 3 Calif AO 2-8221
 Leach & Garner Co Industrial Div Leach & Garner Bldg Attleboro Mass 1-1155
 Leak Div British Industries Corp 80 Shore Rd Port Washington NY PO 7-7700
 Lear Inc 3171 S Bundy Drive Santa Monica Calif EX 8-6211
 Lear Inc 110 Ionia Ave N W Grand Rapids 2 Mich GL 1-1555
 Lectrohm Inc 5560 Northwest Hwy Chicago 30 Ill RO 3-1700
 Lee Chemical Corp Walter Seabury Ave & Butler Pl Bronx 61 NY SV 2-4400
 Leedal Inc 2929 S Halsted Chicago Ill VI 2-6588
 Leeds & Northrup Co 4970 Stenton Ave Philadelphia 4 Pa MI 4-4900
 Lee Electric & Mfg Co 2806 Clearwater St Los Angeles 39 Calif NO 3-1295
 L E E Inc 625 N Y Ave N W Washington 1 D C NA 8-3225
 Lee Springs Co 30 Main St Brooklyn 1 NY UL 5-7163
 Leetronics Inc Lee Instrument Div 30 Main St Brooklyn 1 NY UL 5-7163
 Lehigh Valley Electronics Eng'g & Mfg Co 215 S 3 St Allentown Pa HE 5-3662
 Leighton Labs H W York Rd & Sunset Lane Hatboro Pa OS 5-3302
 Leiman Bros 146 Christie St Newark 5 NJ MA 3-7520
 Leitch Eng'g Corp 326 Lincoln St Manchester N H HA 3-4773
 Leitra Labs Inc 154 11 Ave New York 11 NY AL 5-2013
 Le Inc 380 Bab St Coganque NY AM 4-2200
 Leland Electric Co Div American Machine & Foundry Co 1501 Webster St Dayton 1 Ohio MI 0701
 Leland Electric Co Aircraft Products Plant 740 E National Rd Vandalia Ohio TW 8-5881
 Leland Inc G H 123 Webster St Dayton 2 Ohio MI 9891
 Lemert Eng'g Co 201 E Jefferson St Plymouth Ind 3430
 Lent Mfg Co 30 Cummington St Boston 15 Mass KE 6-9700
 Lenturt Electric Co 1105 County Rd San Carlos Calif LY 1-8461
 Lennard Co Inc P M 1061 E 8 St Jacksonville 6 Fla EL 3-9639
 Lenox Instrument Co 2010 Chancellor St Philadelphia 3 Pa RI 6-6553
 Lenze Electric Mfg Co 1751 N Western Ave Chicago 47 Ill AR 6-4454
 Leonard Electric Products Co 67 34 St Brooklyn 32 NY ST 8-2023
 Lenel High Frequency Labs 54-18 37 Ave Woodside 77 NY WA 6-4580
 Lerco Electronics Inc 501 S Varney St Burbank Calif VI 9-5556
 Leslie Co Lyndhurst NJ GE 8-8000
 Lestershire Sool Div National Vulcanized Fibre Co 140 Baldwin St Johnson City NY 7-2384
 Lettine Radio Mfg Co 52 Berkley St Valley Stream NY VA 5-9387
 Leunold & Stevens Instruments Inc 4445 N E Glean St Portland 13 Ore BE 4-7423
 Levee Lab Harold A 8127 Oleander St New Orleans 18 La GA 1501
 Levin & Son Louis 3630 S Broadway Los Angeles 7 Calif AN 3-7169
 Levinthal Electronic Products Inc 3180 Hanover St Palo Alto Calif DA 6-1640
 Lewis & Kaufman Ltd Div of Int'l Glass Corp P O Box 337 Los Gatos Calif EL 4-3540
 Lewis Co E B 11 Bragg St E Hartford 8 Conn JA 8-8889
 Lewis Eng'g Co 339 Church St Naugatuck Conn PA 9-5253
 Lewis Springs & Mfg Co 2652 W North Ave Chicago 47 Ill
 Libbey-Owens Ford Glass Co 608 Madison Ave Toledo 3 Ohio CH 2-5781
 Liberty Mirror Div Libbey Owens Ford Glass Co Brackentide Pa AC 4-1800
 Librascope Inc Commercial Div 133 E Santa Anita Ave Burbank Calif VI 9-1351
 Librascope Inc 908 Western Ave Glendale Calif CH 5-2677
 Liebel-Flarsheim Co 111 E Amity Rd Cincinnati 15 Ohio PD 1-2700
 Lieco Inc 3610 Oceanside Rd Oceanside L I NY RO 6-7620
 Life Instrument Co P O Box 158 Braintree 85 Mass VI 3-0845
 Light Electric Co 214 Lackawanna Ave Newark 3 NJ HU 5-4111

Lincoln Electric Co 22801 St Clair Ave Cleveland 17 Ohio IV 1-8100
 Lindberg Eng'g Co 2450 W Hubbard St Chicago 12 Ill MO 6-3443
 Lindt Co Div Union Carbide & Carbon Co 30 E 42 St New York 17 NY MU 7-8000
 Lindgren & Associates Erik A 4515 N Ravenswood Ave Chicago 40 Ill LO 1-0408
 Lindly & Co 248 Herricks Rd Mineola NY PI 6-6505
 Lindsay Structure Inc 5009 Dempster St Skokie Ill OR 3-6220
 Linear Inc State Rd & Levick St Philadelphia 35 Pa MA 4-4700
 Line Electric Co 271 S 6 St Newark 3 NJ HU 2-1611
 Linell Eng'g Corp Chas S 447 S Blvd Oak Park Ill VI 8-0850
 Linemaster Switch Corp Woodstock Conn WA 8-3051 VI 8-0850
 Link Material Industries 700 W Michigan Milwaukee Wisc BR 2-8777
 Ling Electronics Inc 5120 W Jefferson Blvd Los Angeles 16 Calif WE 3-9595
 Link Aviation Inc Binghamton NY 3-6311
 Link-Bell Co Dept El Prudential Plaza Chicago 1 Ill RA 6-7790
 Link-Radio Corp 110 Jericho Turnpike New Hyde Park L I NY PR 5-8200
 Linlar Inc 4101 San Fernando Rd Glendale 4 Calif CM 5-5135
 Lipos Co Edwin A 1511 Colorado Ave Santa Monica Calif ER 3-0449
 Liquidometer Corp 41-03 36 St Long Island City 1 NY ST 4-1440
 List Co G W Clifton Springs NY
 Liston Sacker Plant Beckman Instruments Inc 649 Hope St Springdale Conn FI 8-4281
 Lithium Corp of America 2500 Rand Tower Minneapolis 2 Minn FE 2-7451
 Littlefuse Inc 1865 Miner St Des Plaines Ill VA 4-1185
 Little Inc Arthur D 30 Memorial Drive Cambridge Mass
 Litton Eng'g Labs P O Box 949 Grass Valley Calif 1730
 Litton Industries of Calif 336 N Foothill Rd Beverly Hills Calif CR 4-7411
 Litton Industries Components Div 5873 Rodeo Rd Los Angeles 16 Calif VE 7-1228
 Litton Industries Electronic Display Lab 1476 66 St Eversville Calif DL 8-3831
 Litton Industries of Md Inc 4910 Calvert Rd College Park Md UN 4-5678
 Livingston Electronic Corp P O Box 3 Livingston NJ CA 6-3333
 Lockheed Aircraft Corp Missile Systems Div 7701 Woodley Van Nuys Calif ST 6-4210
 Loewy-Hydropress Div Baldwin-Lima-Hamilton Corp 111 S Ave New York 3 NY DR 7-5030
 L O F Glass Fibers Co 1820 Madison Ave Toledo 1 Ohio CH 8-5771
 Logemann Co G W 633 Bergen St Brooklyn 38 NY UL 7-9403
 Lope Sound Engrs J M 2171 W Washington Blvd Los Angeles 18 Calif RE 4-9178
 LogElectronics Inc 500 E Monroe Ave Alexandria Va TE 6-5180
 Logo Inc Div Bee Chemical Co 12904 S Stony Island Ave Chicago 33 Ill MI 6-0400
 London Chemical Co 1535 N 31 Ave Melrose Park Ill London Electric Mfg Co Ltd 80 Shore Rd Port Washington NY PO 7-7700
 Long Inc Thomas J 215 Stonehenge Lane Carle Place L I NY ED 4-2300
 Lorain County Radio Corp 203 9th St Lorain Ohio CH 4-1195
 Loral Electronics Corp 749 E 140 St New York 54 NY EV 2-1800
 Lord Mfg Co 1635 W 12 St Erie 6 Pa 2-2296
 Lord-Talbot Co 40 Ontario St Canandaigua NY 30
 Lorenzen Inc H K 391 W Broadway New York 12 NY WO 2-4242
 L & O Research & Dev Corp 134 N Wayne Ave Wayne Pa MU 8-3840
 Los Alamos Scientific Lab Univ of Calif Los Alamos New Mex
 Louche & Marling 418 W 54th St New York 19 NY CI 7-2366
 Louthan Mfg Co Box 781 E Liverpool Ohio FU 5-1538
 Lowell Mfg Co 3030 Laclede Station Rd St Louis 17 Mo ST 1-9058
 Loyola Labs Box 45074 Airport Station Los Angeles 45 Calif DR 8-1686
 L & R Mfg Co 577 Elm St Arlington NJ KE 2-5330
 Lubron Rubber Co 51 Kelvin St Everett 49 Mass DU 7-1140
 Luckenbach & Co Paul 312 W 231 St New York 63 NY LO 2-9788
 Lufkin Rule Co 1730 Hess St Saginaw Mich PL 2-2141
 Luhrs & Co C H 297 Hudson St Hackensack NJ DE 2-4797
 Luma Electric Equipment Co P O Box 132 Toledo 1 Ohio KL 4168
 Lumenite Electronic Co 407 S Dearborn St Chicago 5 Ill
 Luminous Processes Inc 161 E 42 St New York 17 NY MU 7-2180
 Luminous Rains Inc 166 W Washington St Chicago 2 Ill DE 2-4667
 Lunday Associates 694 Main St Waltham 54 Mass TW 3-6064
 Lunkenheimer Co Beckman St & Waverly Ave Cincinnati 14 Ohio
 Luther Electronic Mfg Co 5728 W Washington Blvd Los Angeles 16 Calif WE 9-5826

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Luther Mfg Co 7312 Varna Ave N Hollywood Calif ST 7-7665
 Lux Clock Mfg Co Johnson St Waterbury Conn PL 6-3661
 Luxo Lamp Corp 102 Columbus Ave Tuckahoe NY WO 1-2678
 Luzer Lighting Products Inc 350 5 Ave New York 1 NY LO 5-9772
 Luzerne Rubber Co Muirhead Ave Trenton NJ EK 4-5221
 Lydon Bros 85 Zabriskie St Hackensack NJ DI 3-4334
 Lyman Electronic Corp 12 Cass St Springfield 4 Mass RE 7-5361
 Lynch Carrier Systems Inc 695 Bryant St San Francisco 7 Calif EX 7-1471
 Lyndon Aircraft Inc 1400 Clifford St Newark 5 NJ MI 2-4090
 Lyngar Engineers Inc 1432 N Carlisle St Philadelphia 21 Pa ST 7-4450
 Lyon Metal Products Inc 11 Railroad Ave Aurora Ill 7-5421
 Lytco Mfg Co 1401 Clinton St Hoboken NJ OL 9-3520
 Lytle Eng & Mfg Co 1404 San Mateo Blvd SE Albuquerque New Mexico 5-1671
 McAister Inc J G 1117 N McCadden Pl Hollywood 38 Calif HO 9-5317
 McClure Talking Pictures O J 1115 W Washington Blvd Chicago 7 Ill CA 6-4914
 McCormick Selph Assoc P O Box 6 Hollister Airport Hollister Calif 1185
 McCoy Electronics Co Chestnut & Walts Sts Mt Holly Springs Pa 376
 McDowell Electronics Inc 105 Forrest St Metuchen NJ LI 8-9109
 McGill Mfg Co Electrical Div 999 N Lafayette St Valparaiso Ind 2-6401
 McGohan Inc Don 3700 W Roosevelt Rd Chicago 24 Ill NE 2-1213
 McGraw-Edison Corp Instrument Div 51 Lakeside Ave W Orange NJ
 McGraw Edison Co Power Tool Div 110 Main St Burlington Vt UN 4-5786
 McGregor Electronic Industries Inc 132 1 St McGregor Iowa 682
 McIntosh Laboratory Inc 2 Chambers St Binghamton NY 3-5491
 McKenna Laboratories 2503 Main St Santa Monica Calif EX 9-8846
 McLean Engg Labs P O Box 228 70 Washington Rd Princeton NJ WA 4-4440
 McMillan Industrial Corp Brownville Ave Ipswich Mass 387
 McQuay-Norris Mfg 2320 Marconi St St Louis 10 Mo PR 6-4800
 Maas & Waldstein Co 2121 McCarter Hwy Newark 4 NJ HU 4-1600
 Macfar Inc 2543 Boston Rd New York 67 NY OL 3-3306
 Macdonald and Company 1324 Ethel St Glendale 7 Calif CI 1-6481
 Machinery Electrification Inc 35 Hudson St Northboro Mass 461
 Machine O Matic 2045 N Hay N E Ave Chicago 4 Ill HU 6-1217
 Machlett Labs Inc 1063 Hope St Springdale Conn FT 8-7511
 Mackay Inc A D 198 Broadway New York 38 NY BA 7-8532
 Mackay Radio & Telegraph Co Marine Div 133 Terminal Ave Clark NJ FU 1-2828
 MacKay Research Labs R R 2 Box 401 McHenry Ill
 Mack Electric Devices Inc 48 Glenside Ave Wyncote Pa TU 4-8123
 Mack Electronics Div Mack Trucks 40 Leon St Boston 15 Mass MI 5-5640
 Mack Electronics Div Inc 1000 S 2 St Plainfield NJ PL 5-4600
 MacKenne Electronics 145 W Hazen St Inglewood 3 Calif OR 8-9335
 MacLeod & Hanopol 10 Roland St Charlestown 29 Mass MO 6-2171
 Macxon Electronics Box 56 Warrensburg Ill 2411
 Mazon Co 3260 Motor Ave Los Angeles 34 Calif TE O-3000
 Madigan Corp 526 Mineola Ave Carle Place NY ED 4-2500
 Madison-Fielding Corp 863 Madison St Brooklyn 21 NY NY 1-3480
 Magic-Vue Television Corp 323 E 13 St New York 3 NY OR 4-4320
 Magnadyne Corp 84 S Water St Port Chester NY JE 1-8064
 Magna Electronics Co 9810 Anza Ave Inglewood 1 Calif OR 8-9575
 Magnaflex Corp 7300 W Lawrence Ave Chicago 31 Ill UN 7-8000
 Magnasyn Mfg Co 5546 Satsuma Ave N Hollywood Calif ST 7-5493
 Magnatran Inc Box 211 Kearney NJ KE 2-6633
 Magnaron Corp 2131 Butner Rd Ft Wayne 4 Ind
 Magnanorries Box 4960 Washington 20 D C LO 7-1383
 Magnecord Div Midwestern Instruments Inc P O Box 7186 Tulsa Okla RI 7-1331
 Magnecraft Electric Co 3352 W Grand Ave Chicago 51 Ill
 Magnesium Products of Milwaukee Inc 748 W Virginia St Milwaukee 4 Wisc BR 6-8316
 MagneTec Corp 11785 W Olympic Blvd W Los Angeles 64 Calif GR 9-2257
 Magnetic Amplifiers Inc 632 Tinton Ave New York 55 NY CY 2-6610
 Magnetic Circuit Elements Inc 3722 Park Pl Montrose Calif CH 8-4040
 Magnetic Controls Co 6403 Cambridge St Minneapolis 16 Minn WE 9-4691

Magnetic Core Corp John & Lawrence Sts Newburgh NY 5116
 Magnetic Devices Corp 103 S Van Brunt St Englewood NJ LO 9-4990
 Magnetic Devices Inc 712 East St Frederick Md MO 2-2177
 Magnetic Instrument Co 546 Commerce St Thornwood NY RO 9-5312
 Magnetic Metals Co Hayes Ave & 21 St Camden 1 NJ WO 4-7842
 Magnetic Powders Inc P O Box 247 Johnsonburg Pa 52-015
 Magnetic Recording Industries 11 E 16 St New York 3 NY AL 5-7250
 Magnetic Research Corp 3160 W El Segundo Blvd Hawthorne Calif OS 5-1171
 Magnetics Inc Box 391 Butler Pa 7-3787
 Magnetic Sound Inc 4803 1/2 Grand Ave Des Moines 12 Iowa CR 9-5611
 Magnetic Specialties Co 18 Scudder Ave Northport LI NY MO 3-2077
 Magnetics Research Co 255 Grove St White Plains NY WH 9-9589
 Magne-Tronics Inc 49 W 45 St New York NY
 Magnuson Engineers Inc 590 Emory St San Jose 10 Calif CY 2-3657
 Magrol Inc 240 Seneca St Buffalo 2 NY MO 7451
 Mahoney Teletronic Labs Inc 209 16 Ave Newark 3 NJ BI 2-0972
 Maico Co Inc 21 N 3rd St Minneapolis 1 Minn FE 9-7041
 Maida Development Co 214 Academy St Hampton Va 3-0785
 Maigne Co D J 323 Pearl St New York 38 NY WO 2-1165
 Majestic Extruders Inc 32-37 Downing St Flushing 52 NY IN 1-8300
 Majestic Int'l Corp 79 Washington St Brooklyn 1 NY UL 2-6000
 Major Electronics Corp 762 Wythe Ave Brooklyn 11 NY MA 4-2557
 Makepeace Div W E Englehard Industries Inc Pine & Denham Sts Attleboro Mass AT 1-0089
 Malco Tool & Mfg Co 4025 W Lake St Chicago 24 Ill SA 2-0187
 Malkin-Illion Co 400 Coit St Irvington 11 NJ ES 2-3405
 Mallinckrodt Chemical Works 2 & Mallinckrodt Sts St Louis 7 Mo CE 1-8980
 Mallory Battery Co Div P R Mallory & Co 13000 Athens Ave Cleveland 7 Ohio AC 6-0030
 Mallory & Co Inc P R 42 S Gray St Indianapolis 6 Ind ME 6-5353
 Mandel Chemical Products Co 207 Astor St Newark 5 NJ BI 3-0779
 Mandex Mfg Co 2608 W 16 St Chicago 8 Ill LA 1-2300
 Mandrel Industrial Instruments Div Mandrel Industries Inc 5134 Glenmont Rd Houston Texas MO 7-6561
 Manger Electric Co Miller St Stamford Conn FI 8-7761
 Manning Maxwell & Moore Inc Shelter Rock Lane Danbury Conn PI 3-6721
 Manning Maxwell & Moore Inc 250 E Main St Stratford Conn DR 8-2681
 Manning Paper Co John A P O Drawer 328 Troy NY AR 3-6320
 Manostat Corp 20-26 N Moore St New York 13 NY DI 9-0660
 Manson Laboratories Inc 207 Greenwich Ave Stamford Conn DA 4-6738
 Mantec Inc 126 Maryland St El Segundo Calif EA 20659
 Manufacturers Engg & Equip Corp York Rd & Sunset Lane Hatboro Pa OS 5-3300
 Manufacturer's Lab 10610 Keswick St Sun Valley Calif
 Marantz Co 25-14 Bdw Long Island City NY RA 6-1500
 Marathon Battery Co 840 Henrietta St Wausau Wisc 2-1071
 Marathon Electric Mfg Corp Randolph & Cherry Wausau Wisc 2-2011
 Marble-Card Electric Corp Gladstone Mich ZB61
 Marblette Corp 37-31 30 St Long Island City 1 NY ST 4-8100
 Marbon Chemical Div Borg-Warner Corp 7165 Chicago Ave Gary Ind TU 6-9146
 Marchant Calculators Inc 1475 Powell St Oakland 8 Calif OL 2-6500
 Marconi Instruments Ltd 111 Cedar Lane Englewood NJ
 Marine View Electronics Inc 28 Main St White Plains N Y WH 6-1818
 Marion Electrical Instrument Co Grenier Field Manchester NH MA 5-6971
 Marbel Electric Products Inc 145 E Seneca St Buffalo 3 NY MO-1800
 Marbel & Sons L Frank School Lane Norristown Pa BR 2-8960
 Marbon Machine Co 150 Congress St Keene NH EL 2-1130
 Markite Corp 155 Waverly Pl New York NY OR 5-1384
 Mark Products Co 6412 W Lincoln Ave Morton Grove Ill OR 5-4999
 Markwik Mfg Co 31 Sexton Rd Plainview LI NY WE 1-8055
 Marlin-Rockwell Corp 462 Chandler St Jamestown NY GL-541
 Marshall Associates Inc John Box 2463 Bridgeport 8 Conn ED 5-9401
 Marshalltown Mfg Co 810 E Nevada St Marshalltown Iowa 4461
 Martin Co Glenn L Baltimore 3 Md MO 7-3800
 Martindale Electric Co Box 617 Edgewater Branch Cleveland 7 Ohio LA 1-8567

Marvel-Schebler Products Div Borg-Warner Corp Box 863 Decatur Ill 8-4631
 Maryland Electronic Mfg Corp 5009 Calvert Rd College Park Md WA 7-9200
 Maryland Lava Co Box 205 Belair Md 1441
 Mason Electric Corp 3839 Verdugo Rd Los Angeles 65 Calif CL 5-1431
 Masone Corp 111 W Washington St Chicago 2 Ill FR 2-5644
 Massa Laboratories Inc 5 Fottler Rd Hingham Mass MI 6-2360
 Mast Development Co Inc 2212 E 12th St Davenport Iowa 9-9729
 Master Appliance Mfg Co 530 4 St Racine Wisc ME 3-7791
 Master Electric Co 126 Davis Ave Dayton 1 Ohio KE-4131
 Master Engineering Studios 135 Liberty St New York 6 NY WO 2-3290
 Master Etching Corp 50 Honech St Englewood NJ LO 9-0100
 Master Mobile Mounts Inc 1306 Bond St Los Angeles 15 Calif RI 7-0638
 Masterite Industries Inc 835 W Olive St Inglewood Calif OR 8-8780
 Matchless Electric Co 1700 Washington Blvd Chicago 12 Ill MO 6-3103
 Mathis Co G E 6100 S Oak Park Ave Chicago 38 Ill PO 7-3800
 Matthew Labs 146 Riverdale Ave Yonkers NY YO 9-5180
 Matthews & Co Jas H 3956 Forbes St Pittsburgh 13 Pa MU 1-8500
 Maurer Inc J A 37-01 31 St Long Island City 1 NY ST 4-4600
 Maury Instrument Corp 7924 S Exchange Ave Chicago 17 Ill RE 1-1717
 Maxson Corp W L 475 10 Ave New York 18 NY LO 5-1900
 Maxson Instruments Div W L Maxson Corp 47-37 Austell Pl Long Island City 1 NY RA 9-1850
 Mayer Engg Co Frank 6442 Santa Monica Blvd Los Angeles 38 Calif MO 3-7121
 Mayfair Molded Products Corp 3700 N Rose St Franklin Park Ill GL 5-9440
 Maymer Corp 1961 W 112 St Cleveland 2 Ohio AC 1-3979
 M-B Communication Co 4626 Walnut St Philadelphia 39 Pa
 MB Mfg Co Div Textron Inc 1060 State St New Haven 11 Conn SP 7-6211
 Measurement Engg Ltd 232 John St Annapolis Md 400
 Mechaners Inc Westport Conn CA 7-7435
 Mechanical Industries Prods Co 217 Ash St Akron 8 Ohio PO 2-7673
 Mechanical Products Inc 1824 River St Jackson Mich ST 2-0391
 Mechanical Steel Tubing Corp 500 Barry St New York 59 NY WY 1-1500
 Mech-Tronic Equipment Co P O Box 510 Silver Spring Md TU 2-4851
 Metal Mfg Co P O Box 292 Sharon Pa DI 2-839
 Medcraft Electronic Corp 426 Great East Neck Rd Babylon NY MO 9-2837
 Melco Products Inc 301 S Ave S Minneapolis 15 Minn FE 9-2791
 Meihink Steel Safe Co Tele Electronics Div 1672 Oakwood Ave Toledo 6 Ohio JO 4641
 Menlo Master Mfg Co 2842 N Cicero Ave Chicago 41 Ill KI 5-5559
 Melpar Inc 3000 Arlington Blvd Falls Church Va JE 4-6000
 Mel-Rann Corp 2100 E Fletcher Ave Indianapolis 3 Ind ME 7-4613
 Menlo Park Engg 721 Hamilton Ave Menlo Park Calif DA 5-8401
 Menlo Research Lab 538 Phelan Ave San Jose Calif CY 7-0455
 Megco Inc Abbott Ave Morrisstown NJ JE 9-2000
 Mercast Mfg Corp 2620 1 St La Verne Calif LY 3-4521
 Merck & Co Inc Chemical Div Rahway NJ FU 8-1200
 Mercoid Corp 4201 Belmont Ave Chicago 41 Ill PE 6-2100
 Mercury Contacts Inc P O Box 615-E Far Hills Sta Dayton 9 Ohio WE 3-4201
 Mercury Electronic Co Box 450 B Red Bank NJ AT 1-1600
 Mercury Engg Corp 339 E Cottage Pl York Pa 7788
 Meredith & Co Ltd C C 80 Thomas St Streetsville Ont Canada TA 6-1141
 Meridian Metallcraft Inc 8739 S Miller Grove Dr Whittier Calif OX 2-3761
 Merit Coil & Transformer Corp 2027 Sherman St Hollywood Fla
 Merit Coil & Transformer Corp 4427 N Clark St Chicago 40 Ill LO 1-6311
 Merit Plating Co 218 E 141 St New York 51 NY CY 2-6380
 Merix Chemical Co 1021 E 55 St Chicago 15 Ill NY 3-7855
 Merkle Korff Gear Co 213 N Morgan St Chicago 7 Ill MO 6-1900
 Merz Engg Inc 200 S Harding St Indianapolis Ind ME 2-7431
 Mesa Plastics Co 11751 Mississippi Ave Los Angeles 25 Calif GR 8-2310
 Metal-Craft Inc Burgess Pl Wayne NJ MO 8-4283
 Metal-Fab Co 12321 Branford St Pajoma Calif EM 6-8700
 Metal Fabricators Corp 73 Pond St Waltham 54 Mass TW 3-6800
 Metal Finishing Service 711 W Root St Chicago 9 Ill ST 2-4472

ALPHABETICAL LISTING of MANUFACTURERS with LOCALIZER INDEX

Metal Forging Corp 373 Van Sinderen Ave Brooklyn 7 NY DI 2-1247
 Metal Hydrides Inc 1224 Congress St Beverly Mass WA 2-1875
 Metallic Plastics Corp 27-10 44 Dr Long Island City NY ST 4-6969
 Metal Products Inc Div Mid West Conveyor Co Inc Fairfax Industries Dist Kansas City 15 Kan PI 6-0651
 Metal Specialty Products Corp 27-01 Brooklyn Queens Expressway W Woodside 77 NY RA 1-3500
 Metal Textile Corp 647 E First Ave Roselle NJ CH 5-3000
 Metals & Controls Corp General Plate Div 48 Forest St Attleboro Mass AT 1-2800
 Metals & Controls Corp Spencer Thermostat Div 48 Forest St Attleboro Mass AT 1-2800
 Metaplast Corp Davisville Rd at Pa Turnpike Hattboro Pa OS 5-2416
 Melzac Inc 45-68 162 St Flushing 58 NY FL 9-8838
 Meters Inc 5353 N Keystone Ave Indianapolis 20 Ind CL 5-3570
 Methode Mfg Corp 7447 W Wilson Ave Chicago 31 III UN 7-9600
 Metro Inc R 1 230 Toronto Ave Providence 5 RI ST 1-3050
 Metron Instrument Co 432 Lincoln St Denver 3 Colo PE 3-3764
 Metronix Inc Mill Lane Waterford Conn GI 3-1886
 Metzner Eng'g Corp 1041 N Sycamore Ave Hollywood 38 Calif HO 2-2353
 Metz Refining Co 369 Mulberry St Newark 2 NJ WA 8-0656
 Meyerford Co 5323 W Lake St Chicago 44 III ES 8-3700
 MF Electronics Co 122 E 25 St New York 10 NY GR 3-5899
 M-H Standard Corp 510 Communisaw Ave Jersey City 4 NJ HE 3-5834
 Mica Corp 4031 Elenda St Culver City Calif TE 0-6851
 Micacraft Products Inc 701 McCarter Hwy Newark 5 NJ MA 3-6921
 Mica Fabricating Co Rochelle Park NJ HU 7-5717
 Mica Insulator Co 797 Broadway Schenectady 1 NY FR 4-4191
 Micamold Electronics Mfg Corp 1087 Flushing Ave Brooklyn 37 NY HY 7-5400
 Micarda Fabricators Inc 5324 N Ravenswood Ave Chicago 40 III LD 1-9700
 Michigan Electronics Inc 854 N Rockwell St Chicago 22 III HU 6-2726
 Micro Instrument Co 80 Trowbridge St Cambridge 38 Mass RI 7-8660
 Micro Balancing Inc 191 Herricks Rd Garden City Park NY PI 6-0851
 Micro-Circuits Co New Buffalo Mich 272W1
 Microdot Inc 220 Pasadena Ave S Pasadena Calif SY 9-6451
 Microdot Co 2300 S 25 St Salem Ore 2-3562
 Micro Gee Products Inc 6319 W Slauson Culver City Calif EX 1-1716
 Microlab Olner Pkwy Livingston NJ
 Micromech Mfg Co 1020 Commerce Ave Union NJ MU 8-6323
 Micrometrical Mfg Co 345 S Main St Ann Arbor Mich MI 2-5626
 Micromold Products Corp 1 School St Yonkers NY YO 9-2850
 Micron Gear Mfg Co 73 Rushmore St Westbury LI NY ED 4-8880
 Microphase Corp Box 1166 Greenwich Conn NO 1-6200
 Micro Switch Div Minneapolis-Honeywell Regulator Co Chicago & Spring St Freeport III ST 4406
 Microtech Inc 2975 State St Hamden 17 Conn AT 8-9297
 Microtran Co 145 E Mineola Ave Valley Stream NY

See listing →

Microwave Associates Inc Burlington Mass BU 7-2711
 Microwave Development Labs 92 Broad St Babson Park 57 Mass WE 5-6252
 Microwave Eng'g Labs Inc 943 Industrial Ave Palo Alto Calif YO 7-6958
 Mid-Century Instrumental Corp 611 Broadway New York 12 NY SP 7-4016
 Midget Lourer Co 6-B Wall St Norwalk Conn VO 6-2342
 Midland Industrial Finishes Co Waukegan III
 Midland Mfg Co 3155 Fiberglas Rd Kansas City 15 Kansas FI 2-7950
 Midland Paint & Varnish Co 3801 E 91 St Cleveland 5 Ohio BR 1-4050
 Mid-West Conveyor Co Metal Products Div 7 & Sunshine Rd Kansas City 15 Kan MA 1-1980
 Midwest Electric Products Inc 1515 N Front St Manlyto Minn 8-2919
 Midwest Instruments P O Box 7186 Tulsa Okla Riverside 7-1351
 Midwest Molding & Mfg Co Gurnee III ON 2-1320
 Mid-West Spring Mfg Co Etna St Mentone Ind 3-2415
 Mil Case Corp 35-18 St 37 Long Island City NY
 Miles Reproductor Co 812 Broadway New York 3 NY SP 7-7670
 Milford Rivet & Machine Co 857 Bridgeport Ave Milford Conn TR 8-1761
 Milgo Electronic Corp 7601 N W 37 Ave Miami 47 Fla PL 8-5597
 Miljan Inc Div Paul Omohundro Co P O Box 396-15506 Vermont Ave Paramount Calif ME 3-1023
 Millen Mfg Co James 150 Exchange St Malden 48 Mass WA 4-4108
 Miller Associates P O Box 369 Lakeville Conn HE 5-2822

Miller Co J W 5917 S Main St Los Angeles 3 Calif AD 3-4294
 Miller Dial & Nameplate Co 4400 N Temple City Blvd El Monte Calif CU 3-5111
 Miller Electronics 2840 Naomi St Burbank Calif VI 9-1659
 Miller Electro-Research Labs 5529 S 5 St Milwaukee 7 Wisc HU 3-6303
 Miller-Harris Instrument Co 601 E Oden Ave Milwaukee 2 Wisc BR 3-6121
 Miller Mfg Co M A 4 & Church Sts Libertyville III LI 2-7550
 Miller M C Box 721 E Saddle River Rd Alencade NJ DA 7-2246
 Miller Labs August E 9226 Hudson Blvd N Bergen NJ UN 9-2142
 Miller-Robinson Co 7007 Avalon Blvd Los Angeles 3 Calif Pleasant 2-6141
 Miller Co Sanford 691 Bedford Ave Brooklyn 6 NY UL 8-2817
 Miller-Trojan Co 1 North Ridge Ave Troy Ohio TE 2-7336
 Millers Falls Co 57 Wells St Greenfield Mass PR 3-5426
 Millipore Filter Corp 36 Pleasant St Watertown 72 Mass WA 4-8130
 Milli-Switch Corp 1742 Berkeley St Santa Monica Calif EX 4-1733
 Millitest Co 88 Madison Ave Hempstead NY IV 9-9672
 Millivac Instrument Corp 2315 2 Ave Carman Schenectady NY FR 7-8501
 Milwaukee Gas Specialty Co 730 N Jackson St Milwaukee 1 Wisc BR 3-3388
 Milwaukee Resistor Co 700 W Virginia St Milwaukee 4 Wisc BR 1-9900
 Milwaukee Stamping Co 800 S 72 St Milwaukee 14 Wisc
 Milwaukee Transformer Co 5231 N Hopkins St Milwaukee 12 Wisc HO 6-5532
 Minatron Corp Belle Mead 9 N I FL 9-4400
 Mincom Div Minn Mining & Mfg Co 2049 S Barrington Ave Los Angeles 25 Calif
 Minco Products Inc 740 Washington Ave Minneapolis 1 Minn FE 8-6753
 Minerals & Insulation Co Rochelle Park NJ HU 7-5717
 Mine Safety Appliances Co 201 N Braddock Ave Pittsburgh 8 Pa CH 1-5900
 Miniature Electronic Components 796 Berry Rd Nashville Tenn CV 8-3376
 Miniature Precision Bearings Inc Precision Park Keene NH EL 2-0310
 Minimax Co 5905 N Clark St Chicago 26 III LO 1-2496

Microtran Co., 145 E. Mineola Ave., Valley Stream, N. Y.
 Sales Mgr.: Albert Eisenberg, LOeast 1-6050
BIRMINGHAM: Emory Design & Engr. Co., P. O. Box 9013
CLEVELAND: J. Olsen, 16201 Shaker Blvd.
COLO. SPRINGS: Peyser & Co., 1501 N. Weber
DETROIT: Holton Sales Co., 21873 Stahelin St.
FORT WAYNE: The Paul Sales Co., 2609 Bldway.
GRAND PRAIRIE, TEX.: Tex-O-Koma, P. O. Box 747
GLEN ELLYN, ILL.: J. Kleker, 177 Sunset Ave.
MERIDEN, CONN.: H. Lavin, P. O. Box 196
MINNEAPOLIS: E. Haxstad, 1717 The Mall
NEW YORK CITY: E. Glass Assoc., 250 W. 57th St.
PHILADELPHIA: Arnold Assoc., 2202 Tyson Ave.
PORTLAND: Roger M. Minthorne Co., 7521 NE Glisan St.
ST. LOUIS: G. Fixman, 8160 Stanford Ave.
SAN FRANCISCO: F. Lebell, 1486 Bayshore Blvd.
VAN NUYS, CALIF.: Nelson-Mann Assoc., 14751 Keawick St.
WILMINGTON, N. C.: Buthan Sales Inc., 4924 Oleander Dr.
YONKERS, N. Y.: Jack Brown Assoc., 207 Rosedale Rd.

Miniran Corp 5 Oliver St Newark 2 NJ MA 3-1168
 Mintron Inc 11052 2 St Encinitas Calif PL 3-2600
 Minneapolis Honeywell Heiland Div 5200 E Evans Ave Denver 22 Colo SK 6-3681
 Minn Honeywell Regulator Co Davies Labs Div 10721 Hanna St Belleville Md WE 5-2700
 Minn-Honeywell Regulator Co Ordnance Div Hopkins Minn WE 8-3571
 Minn-Honeywell Regulator Co Aeronautical Div 2600 Ridgway Ave Minneapolis 13 Minn ST 1-8011
 Minn-Honeywell Regulator Co Commercial & Residential Dvs 2753 4 Ave S Minneapolis 8 Minn FE 2-5225
 Minn-Honeywell Regulator Co Semiconductor Products Division 2753 4 Ave S Minneapolis 8 Minn FE 2-5225
 Minn-Honeywell Regulator Co Industrial Div Wayne & Windrim Aves Philadelphia 44 Pa MI 4-8300

Minn-Honeywell Regulator Co Rubicon Instruments Ridge Ave at 35 St Philadelphia 32 Pa BA 5-3737
 Minnesota Mining & Mfg Co 900 Bush Ave St Paul 6 Minn PR 6-8511
 Minn Mining & Mfg Co Irvington Div 6 Argyle Terr Irvington NJ ES 3-4200
 Minn Mining Mfg Co Jersey City Chemical Div 75 Droyer St Jersey City NJ HE 2-0300
 Minnesota Rubber & Gasket Co 3630 Wooddale Ave St Louis Park Minneapolis 16 Minn WE 9-6781
 Minor Rubber Co Ackerman St Bloomfield Ohio
 Minshall Organ Co 28 Buge St Brattleboro Vt
 Minster Machine Co 1500 S 5th St Minster Ohio 194
 Mishella Infra-Red Co E 73 & Grand Ave Cleveland 4 Ohio
 Missilronics Inc P O Box 716 Melbourne Fla
 Missouri Research Labs Inc 2109 Locust St St Louis 3 Mo CH 1-7875
 Mitchell Industries Inc P O Box 17 F M 1195 Municipal Airport Mineral Wells Texas 285
 Mitchell Rand Mfg Corp 51 Murray St New York 7 NY CO 7-9264
 Mitronics Inc 1290 Central Ave Hillside NJ WA 6-2250
 Mobil Electronics Mfg Co 1111 State Rd 67 E Anderson Ind 2-8489
 Molelectric Products Corp Asbury Park NJ PR 4-2515
 Mole Eng'g & Mfg Inc 50 Frederick St Huntington Ind 104
 Model Rectifier Corp 1065 Utica Ave Brooklyn 3 NY NY 5-4600
 Modern Adhesives & Electronics Inc 148 Greene St New York 12 NY WD 6-1030
 Modern Industries Inc 2601 Colorado Ave Santa Monica Calif EX 5-4433
 Modern Laboratory Equip Co 1811 1 Ave New York 28 NY TR 6-4700
 Modine Mfg Co 1500 De Koven Ave Racine Wisc ME 3-2411
 Modular Systems Inc 21-28 45 Rd Long Island City Queens NY 9-0748
 Moeller Instrument Co 132-02 89 Ave Richmond Hill 18 NY VI 9-2100
 Mohawk Business Machines Corp 944 Halsey St Brooklyn 33 NY GL 5-9570
 Mohawk Mfg Co P O Box 1110 Middletown Conn DI 7-2571
 Mohawk Wire & Cable Corp 320 River St Fitchburg Mass 3-3569
 Moisture Register Co 1510 W Chestnut St Alhambra Calif CA 3-3143
 Molded Fiber Glass Co 4801 Benefit Ave Ashtabula Ohio WY 3-2171
 Molded Insulation Co 335 E Price St Philadelphia 44 Pa WI 4-2626
 Molded Products Div Admiral Corp Washington & Creamery Rd W Chicago III 1140
 Molding Corp of America 58 Weybosset St Providence 3 RI PA 6-2100
 Mole-Richardson Co 937 N Sycamore Ave Hollywood 38 Calif DL 4-3660
 Molly Corp 230 N 8 St Reading Pa FR 6-7413
 Moloney Electric Co 5390 Bircher Blvd St Louis 20 Mo EV 3-3300
 Monaghan Co J J 500 Alcott St Denver 4 Colo AC 2-3558
 Mona Industries Inc 65 E 23 St Paterson 17 NJ AR 4-8220
 Monitor Control 99 Grove St Rockland Mass
 Monitor Products Co 835 Fremont Ave South Pasadena Calif RY 1-1174
 Monogram Precision Industries Inc Cascade Research Div 53 Victory Lane Los Gatos Calif EL 4-9900
 Monroe Calculating Machine Co Electronics Div Morris Plains NJ JE 8-7200
 Monsanto Chemical Co Lindbergh & Olive Sts St Louis 4 Mo
 Monsanto Chemical Co 1700 S 2 St St Louis 4 Mo MA 1-4000
 Montaine Corp 2446 S Prairie Ave Chicago 16 III CA 5-1159
 Montgomery Mfg Co 206 S Main St Owensville Ind SA 4-2505
 Moody Machine Products Co 40 Dudley St Providence 5 RI GA 1-3317
 Moog Valve Co Proner Airport E Aurora NY HO-5050
 Mooradian High Frequency Labs 13 E Ft Lee Rd Bogota NJ DI 2-2115
 Moore Associates Inc 262E Spring St Redwood City Calif EM 9-0204
 Moore Co Howard J 266 Williams St New York NY
 Moore Corp John B P O Box 3 Dept El Peerless Bldg Nutley 10 NJ NU 2-6666
 Moran Instrument Corp 170 E Orange Grove Ave Pasadena 3 Calif SY 3-3439
 Morey Corp 2014 N Major Ave Chicago 39 III BE 7-8800
 Morante Inc 33-02 48 Ave Long Island City 1 NY ST 4-3222
 Morningstar-Paisley Inc 630 W 51 St New York 19 NY JU 2-3790
 Morris Co J I 390 Elm St Southbridge Mass PD 4-4394
 Morrow Radio Mfg Co 2794 Market St Salem Oregon EM 3-9763
 Morse Co Frank W 1300 Soldiers Field Rd Boston 35 Mass ST 2-6626
 Morse Instrument Co 20 Clinton St Hudson Ohio OL 3-5141
 Moseley Co F L 409 N Fair Oaks Ave Pasadena Calif RY 1-0208
 Moser Jewel Co 544 Fayette St Perth Amboy NJ HI 2-3434
 Mosinee Paper Mills Co Mosinee Wisc 68

ALPHABETICAL LISTING of MANUFACTURERS with LOCALIZER INDEX

Mosler Research Products Inc 3 Keeler St Danbury Conn PT 8-2305
 Mosley Electronics Inc B622 St Charles Rock Rd St Louis 14 Mo MA 7-4400
 Mossman Inc Donald P O Box 265 Brewster NY BR 9-3725
 Motigraph Inc 4441 W Lake St Chicago 24 III ES 8-6600
 Motordyne Inc 2661 S Myrtle Ave Monrovia Calif HI 6-2121
 Motoresearch Co 1600 Junction Ave Racine Wisc ME 2-5131
 Motorola Inc Semiconductor Products Division 5005 E McDowell Br 5-4411 Phoenix Ariz

Motorola, Inc., Semiconductor Products Division, 5005 East McDowell Road, Phoenix, Arizona
 Phone: BRidge 5-4411; Teletype Pk80
 Transistors, Rectifiers, Other Semiconductors

REGIONAL SALES OFFICES:

EASTERN: Roy O'Hrien, 540 Bergen Blvd., Ridgefield, N. J. Whitney 5-7500 (from N. Y. WI 8-6828)

MIDWESTERN: William Blinoff, 4900 W. Flournoy St., Chicago 44, Illinois, Esterbrook 9-5200

WEST COAST: W. M. Montgomery, Jr., 6565 Sunset Blvd., Hollywood 28, Calif. HOLlywood 5-8250

Motorola Communications & Electronics Inc 4501 W Augusta Blvd Chicago 51 III SP 2-6500
 Motson Co J Frank 1717 Bethlehem Pike Flourtown Pa
 Moviola Mfg Co 1451 N Gordon St Hollywood 28 Calif HO 7-3178
 Moyn Co C P 8157 N Monticello Ave Shobie III OR 3-6866
 MP Engineering Co Fairfield 3 Conn
 Mt Sopris Instrument Corp 1320 Pearl St Boulder Colo HI 2-4491
 Mucle Mfg Co U S Hwy 14 Watonwan Minn 7249
 Mucron Corp 9 St Francis St Newark 5 NJ MI 2-1476
 Mueller Electric Co 1585 H E 31 St Cleveland 14 Ohio PR 1-5225
 Muirhead & Co Ltd Beckenham Kent England BE-0041
 Muirhead Instruments Inc 677 5 Ave New York 22 NY MU 8-1633
 Mullard Overseas Ltd Century House Shaftesbury Ave London England
 Mullenbach Div Electric Machinery Mfg Co 2100 E 27 St Los Angeles 58 Calif LU 2-5331
 Multi-Amp Corp 465 Lehigh Ave Union NJ MU 8-7112
 Multicore Sales Corp 80 Shore Rd Port Washington NY PD 7-7700
 Multicore Solders Ltd Maylands Ave Hemel Hempstead Hertfordshire England HD-3636
 Multiplastics 770 W Factory Rd Addison III TE 4-7420
 Multi-Products Co 21470 Coolidge Hwy Oak Park 37 Mich JO 6-2377
 Mundt & Sons Charles 53 Fairmount Ave Jersey City 4 NJ DE 3-6200
 Munsell Color Co 10 E Franklin St Baltimore 2 Md VE 7-6530
 Munston Mfg & Service Inc Beech St Islip NY JU 1-3900
 Murex Ltd Rainham Essex England
 Murphy & Miller 614 W Taylor St Chicago 5 III MA 7-8900
 Murray Mfg Corp 1250 Atlantic Ave Brooklyn 16 NY PR 1-8000
 Musistor Inc 933 N Michigan Ave Chicago 1 III SU 7-9481
 Muter Co 1255 S Michigan Ave Chicago 5 III WA 2-8800
 Mutual Electronics Industries Corp 85 Beechwood Ave New Rochelle NY NE 6-3000
 Mutual Electronics Industries Inc 50 Aleppo St Providence RI TE 1-6200
 Mycalox Corp of America 125 Clifton Blvd Clifton NJ PR 9-8865
 Myers & Sons EA Valley Brook Rd Canonsburg Pa WI 1-9000

Mykroy Inc Wheeling III 280
 Mystic Transformers Inc 63 Swanton St Winchester Mass WI 6-0887
 Mytron Mfg Co 4522 Brazil St Los Angeles 39 Calif CH 5-4931
 Nader Mfg Co 2661 S Myrtle Ave Monrovia Calif HI 6-2121
 Nagel-Chase Mfg Co 2811 N Ashland Ave Chicago 13 III LA 5-7825
 Nagoo Associates Inc Littleton Mass MU 6-4533
 Nameplates Inc 421 E 101 St Brooklyn 36 NY NI 9-2524
 NARDA Microwaves Corp 118-160 Herricks Rd Mineola NY PI 6-4650
 Narda Ultrasonics Corporation Herricks Road Mineola LI NY

Narda Ultrasonics Corporation

NORTH EAST: G. G. Leeds Co., 12 Crampton Lane, Great Neck, N. Y.

SOUTH EAST: A. J. M. Corporation, 1800 Central Ave., St. Petersburg, Fla.

OHIO-INDIANA: Baker Distributing Co., 1105 W. 11th St., Cleveland, Ohio

ILLINOIS: Plating Materials Co., 5047 West Fullerton Ave., Chicago 39, Ill.

MICHIGAN: Anderson Engineering Co., 13653 Grand River Ave., Detroit 27, Mich.

SOUTH CENTRAL: Gordon Fixman Eng. Co., 8160 Stanford Ave., St. Louis 24, Mo.

TEXAS-ARIZONA-NEW MEXICO: Ebbeo Eng. Prod., 4531 Montann St., El Paso, Tex.

PACIFIC NORTHWEST: Ray Johnston Co., 11009 Evanston Ave., Seattle 38, Wash.

CALIFORNIA: Pacific Radionics, 2586 E. 67th St., Long Beach 5, Calif.

CANADA: Mel Sales, Armurior, Ontario

MEXICO: Mr. G. W. Owen, Apdo 295, Cuernavaca, Morelos, Mexico

Narmco Resins & Coatings Co 600 Victoria St Costa Mesa Calif LI 8-1144
 Narrow Fabric Co P O Box 742 Reading Pa 4-8311
 National Aeronautical Corp Ft Washington Industrial Park Ft Washington Pa MI 6-2900
 National Aircraft Corp Electronics Div 3411 Tulare Ave Burbank Calif VI 9-3251
 National Bell Corp 6 Lafayette Ave Brooklyn 17 NY NE 6-6239
 National Capacitor Co 18 Webster St Brookline 4s Mass AS 7-4450
 National Carbon Co Div Union Carbide & Carbon Corp 30 E 42 St New York 17 NY MU 7-8000
 National Cash Register Co Main & K Sts Dayton 9 Ohio BA 6-1411
 National Ceramic Co 500 Southard St Trenton 2 NJ EX 4-5373
 National Cine Equipment Inc 209 W 48 St New York NY CI 6-0348
 National Coil Co P O Box 1237 Sheridan Wyo 2303
 National Company Inc 61 Sherman St Malden 48 Mass DA 2-7950
 National Electric Coil Co 800 King Ave Columbus 16 Ohio HU 8-1151
 National Electric Products Corp 2 Gateway Center Pittsburgh 22 Pa GR 1-2852
 National Electronics Inc 628 North St Geneva III 7000
 National Electronics Labs Inc 1713 Kalamia Rd NW Washington 9 DC HU 3-5000
 National Eng'g Products Inc 435 Washington Bldg Washington 5 DC RE 7-4473
 National Fabricated Products Div Hoffman Electronics Corp 2650 W Belden Ave Chicago 47 III DI 2-2650
 National Sashet & Washer Mfg Co 124 E 25 St New York 10 NY GR 5-1865
 National Lead Co 111 Broadway New York 6 NY
 National Lock Washer Co 40 Hermon St Newark 5 NJ MA 2-8200
 National Metallizing Corp Du Pont Circle Blvd Washington 6 D C CD 5-4480
 National Moldite Co 250 South St Newark N J MI 2-6860
 National Pneumatic Co Inc 125 Amory St Boston 19 Mass JA 4-7000
 National Radiac Inc 475 Washington St Newark 2 NJ MA 3-7524
 National Scientific Labs Inc 2010 Massachusetts Ave N W Washington 6 DC HU 3-4030
 National Screw & Mfg Co 2440 E 75 St Cleveland 4 Ohio EN 1-2650
 National Spectrographic Labs Inc 6300 Euclid Ave, Cleveland 3 Ohio UT 1-4664
 National-Standard Co Niles Michigan

National-Standard Co 555 Lincoln Ave Secaucus N J UN 5-2020
 National Television Tube Inc P O Box 133 Rochelle Park N J PR 8-5900
 National Tel-Tronics Corp 52 St Casimir Ave Yonkers NY YO 8-6400
 National Union Electric Corp 1201 E Bell St Bloomington III 7-6041
 National-U S Radiator Corp 342 Madison Ave New York N Y MU 2-2974
 National Vacuum Platers Inc 2633 E Wager St Phila 25 Penna GA 5-0166
 National Vulcanized Fibre Co P O Box 311 Wilmington 99 Dela OL 5-6371

National Vulcanized Fibre Co., P. O. Box 311, Wilmington 99, Dela., OL 6-6371

BALTIMORE—7801 York Rd., Towson 4.

BOSTON—62 Prospect St., Waltham 54.

CHICAGO—2415 Gardner Rd., Broadview, Ill.

CINCINNATI 2—30 E. Central Pkwy.

CLEVELAND 14—1365 Ontario St.

DALLAS—10244 Newcombe Drive.

DETROIT 36—18075 James Couzens Hwy.

GRIFFIN, GA.—P.O. Box 87

INDIANAPOLIS 18—3513 N. Hovey St.

LOS ANGELES 21—2216 S. Garfield Ave.

MILWAUKEE 2—739 N. Broadway.

NEW HAVEN 10, CONN.—7 Whitney Ave.

NEWARK 2, N.J.—1060 Broad St.

NEW YORK 7—50 Church St.

PHILADELPHIA—420 Center Bldg., 6816 Market St., Upper Darby, Pa.

PITTSBURGH 12—119 Federal St.

ROCHESTER, N.Y.—896 Winton Road, South.

ST. LOUIS 5—2 S. Brentwood Blvd.

ST. PETERSBURG, FLA.—2411 Covina Way, South

SAN FRANCISCO—515 Middlefield Road, Palo Alto, Calif.

SEATTLE 3—4001 Whitman Ave.

In Canada—National Fibre Company of Canada Ltd.

TORONTO, ONTARIO—Atlantic & Hanna Aves.

MONTREAL, CANADA—1411 Crescent St.

National X-Ray Products Corp 71 S Newman St Hackensack NJ NU 9-5600
 Natural Lighting Corp 612 W Elk Ave Glendale 4 Calif CH 5-5551
 Natvax Corp 211 Randolph Ave Woodbridge NJ FU 8-8800
 Navigation Computer Corp 1621 Snyder Ave Philadelphia 45 Pa HO 5-7700
 Navigation Devices Inc 616 Security Mutual Bldg Box 1107 Binghamton N Y 3-6787
 Naylor Laboratories Inc E W 2 Yenniceck Ave Port Washington NY PO 7-2028
 Naz-Dar Co 465 Milwaukee Ave Chicago 10 III CH 3-1630
 Nebel Laboratory R E 1634 E 12 St Brooklyn 29 NY MI 5-7427
 Nef Instrument Corp 2211 E Foothill Blvd Pasadena Calif NY 1-5121
 Neill Co R W 4320 Montrose Ave Chicago 41 III SP 7-6200
 Nelson Vacuum Pump Co Geo F 2133 4 St Berkeley 10 Calif AS 3-2277
 Nemeth Inc 2223 S Carmelina Ave Los Angeles 64 Calif GR 8-8263

Immediately adjacent to the free listing of your firm name in the Alphabetical List of Manufacturers, you can purchase space for localizer copy at regular 1/8, 1/6, and 1/3 page rates.

Your localizer ad identifies your national advertising with a local name, address, and phone number. It's an inexpensive way to increase customer inquiries . . . add sales punch to your display advertising.

ALPHABETICAL LISTING of MANUFACTURERS with LOCALIZER INDEX

Nema-Clarke Inc 919 Jesup-Blair Dr Silver Spring Md JU 5-8300

Nema-Clarke Company, Division of Vitro Corporation of America, 919 Jesup-Blair Drive, Silver Springs, Maryland

Phone: Juniper 5-1000

President: A. S. Clarke
Director of Sales: J. F. Whitehead

WEST COAST OFFICE: E. Trompeter, 7713 Oakdale Avenue, Canoga Park, California

Neosil Products Div Rubber Associates 745 S Ave New York 22 NY PL 3-3375
Nesor Alloy Products Co 282 Halsey St Newark NJ MI 2-1682
Network Mfg Corp 213 W 5 St Bayonne NJ HE 6-9151
Networks Electronics Corp 14806 Onard St Van Nuys Calif SY 5-8805
Neumade Products Corp 250 W 57 St New York 29 NY JU 6-5810
Neutronic Associates 93 14 101 Ave Ozone Park N Y VI 7-7703
Nevada Air Products Co P O Box 2472 Reno Nev FA 2-9421
Newark Controls Co 15 Ward St Bloomfield NJ PI 8-2971
Newark Wire Cloth Co 351 Verona Ave Newark 4 NJ HU 3-7700
Newcomb Audio Products Co 624 Lexington Ave Los Angeles 38 Calif HO 9-5381
Newcomb Spring of Conn College Hwy Southington Conn MA 8-5581
Newcomb Springs Corp 177 E Hawthorne Ave Valley Stream NY VA 5-1178
New Departure Div GMC 269 N Main St Bristol Conn LU 2-6371
New England Cable Co 22 Bridge St Concord NH CA 4-1971
New England Electrical Works 365 Main St Lisbon NH 8-6620
New England Etching & Plating Co Spring St Holyoke Mass JE 2-9482
New England Laminates Co 481 Canal St Stamford Conn DA 4-4181
New England Mica Co 66 Woerd Ave Waltham 54 Mass TW 4-3810
New England Nuclear Corp 575 Albany St Boston 18 Mass LI 2-5964
New England Oven & Furnace Co 385 Boston Post Rd Orange Conn SY 9-2005
New England Tape Co 30 Tower St Hudson Mass HU 965
New England Transformer Co 47 McGrath Hwy Somerville 43 Mass SO 6-6100
N H Ball Bearings Inc Peterborough 1 NH
New Hermes Engraving Machine Corp 13 University Pl New York 3 NY SP 7-7220
New Jersey Wood Finishing Co Amboy Ave Woodbridge NJ WO 8-1430
New Jersey Zinc Co 160 Front St New York 38 NY WH 3-5700
New Process Metals Inc 45 Mfrs Pl Newark 5 NJ MA 4-1380
New Rochelle Tool Corp 320 Main St New Rochelle NY NE 2-5555
Newton Co 55 Elm St Manchester Conn MI 3-1543
New York Air Brake Co 230 Park Ave New York 17 NY LE 2-1900
New York Coil Co 40 2 Ave Phoenixville Pa WE 3-3114
New York Mfg & General Supply Co 10-38 Jackson Ave Long Island City 1 NY EX 2-4733
New York Solder Co 884 E 133 St New York 54 NY CY 2-3740
New York Testing Laboratories Inc 47 West St New York 6 NY BD 9-6220
New York Transformer Co 3 Ave Alpha NJ 5-1143
New York J M P O Box 990 Hartford 1 Conn CH 2281
Niagara Electron Labs Main St Andover NY 364A

Niagara Machine & Tool Wks 683 Northland Ave Buffalo 11 N Y TA 4070
Nicad Div Inc Easthampton Mass EA 1200
Nichols Products Co 325 W Main St Moorestown NJ BE 5-0877
Nichols Wire & Aluminum Co 1725 Rockingham Rd Davenport Iowa
Nichel Cadmium Battery Corp Pleasant St Easthampton Mass 1200
Nielsen Hardware Corp 770 Wethersfield Ave Hartford 14 Conn JA 2-8145
Niemand Bros 37-05 35 Ave Lang Island City 1 NY
Nielsen Mfg Co 21 N Church St Addison Ill TE 2-5400
Nilsson Electrical Laboratory Inc 103 Lafayette St New York 13 NY CA 6-1648
N J E Corp 345 Carnegie Ave Kenilworth NJ CH 1-1500
Noel Mfg Co 3 W 1A St New York 11 NY AL 5-4550
Non-Linear Systems Inc Del Mar Airport Del Mar Calif 8W 5-1134
Nonoluck Mfg Co Holyoke Mass JE 4-4509
Nopco Chemical Co Harrison N J HU 3-6200
Norco Mfg Co 392 Bleecher St New York 14 NY AL 5-4062
Norden-Kizay Corp Commerce Rd Stamford Conn DA 5-2611
Norden-Kelay Corp Precision Components Div Jericho Tpk Commack N Y FO 8-5500
Norgren Steam 1277 S Cherokee Denver 23 Colo SH 4-2431
Norma Hoffmann Bearings Corp Walker Div Hamilton Ave Stamford Conn FI 8-3731
Norrich Plastics Corp 107 W 18th St New York 16 N Y WA 4-8360
Norman Laboratories Ernst Williams Bay Wisc CI 5-5516
Norsid Mfg Co 33 Prospect St Yonkers 1 NY YO 5-8145
Northern Electronics Inc 2420 N Lake Ave Altadena Calif SY 8-1145
North American Electric Lamp Co 1520 N 13 St St Louis 6 Mo CE 1-2585
North American Instruments Inc 2420 N Lake St Altadena Calif SY 8-1145
North American Philips Co Elmet Div Lisbon Rd Lewiston Me 4-5478
North Atlantic Industries Inc 603 Main St Westbury NY ED 4-1122
Northeast Electronics Corp Airport Rd Concord N H CA 5-6641
Northeast Scientific Corp 617 Concord Ave Cambridge 38 Mass KI 7-1778
Northeastern Eng'g Inc 25 S Bedford St Manchester NH WA 2-6485
North Electric Co 553 S Market St Galion Ohio 2-4201
Northern Eng'g Labs 372 Wilmot Ave Burlington Wisc RO 3-7155
Northern Industrial Chemical Co 7 Elkins St S Boston 27 Mass AN 8-4240
Northern Metal Products Corp 9599 W Grand Ave Franklin Park Ill GL 5-6222
Northern Plastics Corp 2nd Market St LaCrosse Wisc 4-6070
Northern Radio Co 143 W 22 St New York 11 NY WA 9-9117
North Hills Electric Co 402 Sagamore Ave Mineola LI NY PI 7-0555
Northrop Aircraft Inc 1101 E Broadway Hawthorne Calif
North Shore Nemaplate Inc 214-27 Northern Blvd Bayside 61 NY BA 4-4000
Norton Associates Inc P O Box 96 Garden City NY IV 3-2968
Norton Co 1 New Bonif St Worcester 6 Mass PL 2-4641
Norton Electrical Instrument Co 71 Hilliard St Manchester Conn MI 3-5189
Norwood Controls Unit Detroit Controls Div American Standard 934 Washington St Norwood Mass NO 7-4010
Notbeller Winding Labs Inc 106 Albemarle Ave Trenton 6 NJ EX 2-7117
Notnac Mfg Co 1410 2 St S W Canton 2 Ohio GL 4-7961
NRC Equipment Corp Sub National Research Corp 160 Charenton St Newton Highlands 61 Mass DE 2-5800
NRK Mfg & Eng'g 4601 W Addison Chicago 41 Ill Phone: Sprng 7-2970
Nuclear-Chicago Corp 223 W Erie St Chicago 10 Ill DE 7-3060
Nuclear Development Corp of America 5 New St White Plains NY WH 8-5800
Nuclear Development Lab P O Box 7034 Kansas City 13 Mo DE 3-7692
Nuclear-Electronics Corp 2632 W Cumberland St Philadelphia 32 Pa EA 2-2662
Nuclear Measurements Corp 2460 N Arlington Ave Indianapolis 18 Ind LI 6-2415
Nuclear Systems Div Budd Co 2450 Hunting Park Ave Philadelphia 32 Pa BA 5-9100
Nucleonic Corp of America 196 Degraw St Brooklyn 31 NY MA 4-7370
Nucleonic Products Co 1601 Grande Vista Ave Los Angeles 23 Calif AN 2-1187
Nucor Research Inc 2421 Walnutt Ferndale 20 Mich LI 8-5120
Nugen Electronics Co Inc 802 E 8th St New Albany Ind WH 5-7782
Nukem Products Corp 111 Colgate Ave Buffalo 20 NY SO-0300
Numbrall Stamp & Tool So Huguenot Park Staten Island 12 NY HO 6-0814
Nureco Inc 1100 Pontiac Ave Cranston 10 R I HO 1-4110

Nutron Mfg Co Inc 67 Monroe Ave Staten Island 1 N Y GL 7-3229
Nye Inc Wm F 10 Howland Rd Fairhaven Mass WY 2-1327
Nylot Corp 133 Penn St El Segundo Calif OR 8-3887
Nylot Corp 8046 Central Park Ave Stokie Ill OR 49680
Nylot Corp 611 Industrial Ave Paramus NJ CO 1-9400
NYT Electronics Inc 2979 N Ontario St Burbank Calif VI 9-2414
Oak Mfg Co 1260 N Clybourn Ave Chicago 10 Ill HO 4-2222
Oakrite Products Inc 79 Rector St New York 6 NY WH 3-0940
Oberline Inc P O Box 921 Beverly Hills Calif CR 6-2726
O'Brien Electric Corp 6514 Santa Monica Blvd Hollywood 38 Calif HO 4-1117
Ogden Electronics Inc 5320 N Kedzie Ave Chicago 25 Ill IR 8-7067
Ogden Coil & Transformer Co 3323 W Cermak Rd Chicago 23 Ill VI 7-5355
Onaus Scale Corp 1050 Commerce Ave Union NJ MU 8-3400
Ohio-Arex Div Food Mch & Chemical Corp Nitro W Va
Ohio Brass Co 380 N Main St Mansfield Ohio 7111-6
Ohio Carbon Co 12508 Berea Rd Cleveland 11 Ohio CL 2-4380
Ohio Crankshaft Co Tocco Div 1800 Harvard Ave Cleveland 5 Ohio DI 1-2300
Ohio Seamless Tube Div Copperweld Steel Co Shelby Ohio 3-1010
Ohmart Corp 2236 Bogen St Cincinnati 14 Ohio PA 1-2302
Ohmrite Mfg Co 3601 Howard St Stokie Ill OR 5-2600
Oliak Mfg Co 18 Depot So Montclair NJ PI 6-3200
OK Electronics Corp 7 Hunt Pl Nulley 10 NJ NU 2-6700
Olonite Co 220 Passaic St Passaic NJ PR 7-0400
Olin Matheson Chemical Corp 460 Park Ave New York 22 NY MU 8-0500
Oltrox Corp 235 Underwood Dr Atlanta 5 Ga CE 7-9556
Olympic Instrument Labs Vashon Wash VA-2121
Olympic Plastics Co 3471 S LaCienega Blvd Los Angeles 16 Calif TE 0-1121
Olympic Products Co Inc 3 Ave Alpha N J PH 5-1143
Olympic Radio & TV 34-01 38 Ave Long Island City 1 NY EX 2-5200
Omega Industries Inc 36-39 171 St Flushing NY
Omega Instrument Co 103 E Altadena Rd Altadena Calif SY 4-8814
Omega Labs Inc Haverhill St Rowley Mass WH 8-3401
Onan & Sons D W 2515 University Ave S E Minneapolis 14 Minn FE 2-1155
Onell-Irwin Mfg Co 300 8th Ave Lake City Minn 6301
Onondaga Pottery Co 1858 W Fayette St Syracuse 1 NY 8-1681
Opal Electric Co 69 Murray St New York 7 NY BE 3-7548
Optical Coating Lab Inc 1035 Sebastopol Rd Santa Rosa Calif 356
Optical Gaging Products Inc 26 Forbes St Rochester 11 NY GE 8-8974
Optimized Devices Inc Box 38 Gedney Sta White Plains N Y WT 7-3798
Optimum Eng'g Co 2017 Willow St Grand Prairie Texas AN 2-7151
Opticon Research Inc 1374 Massachusetts Ave Cambridge 38 Mass UM 4-1905
Opto Eng'g Co 3524 W Washington Blvd Los Angeles 18 Calif RE 1-2259
Optron Corp 3526 State St Santa Barbara Calif WO 5-6140
Orange Products Inc 554 Mitchell St Orange NJ OR 7-0900
Orbit Industries Box 666 Reseda Calif
Ordnance Eng'g Corp P O Box 460 Frederick Md MO 2-4181
Oregon Electronic Mfg Co 2105 S E 6 Ave Portland 14 Ore BE 6-9292
Organic Development Corp BR41 Orangewood Ave Anaheim Calif LE 9-7493
Oronite Chemical Co 200 Bush St San Francisco 20 Calif SU 1-6940
ORRradio Industries Inc Shamrock Circle Opelika Ala SH 5-4621
Orto Filter Corp 196 Albion Ave Paterson 2 NJ ORY Co 9015 Wilshire Blvd Beverly Hills Calif BR 6635
Osborne Electronic Corp 712 S E Hawthorne Blvd Portland 14 Ore BE 2-0161
Osborne Transformer Corp 948 E Lafayette Ave Detroit 7 Mich WO 1-4290
O & S Research Inc 1811 Bannard St Riverton N J 9-2800
Oster Mfg Co John Cummins Portable Tool Div 5055 N Lydell Ave Milwaukee 17 Wisc ED 2-8300
Oster Mfg Co John I Main St Racine Wisc ME 3-6331
Otarion Inc 125 Ashford Ave Dobbs Ferry NY DO 3-6600
Otis Elevator Co Electronic Div 35 Ryerson St Brooklyn 5 NY UL 5-6800
Oxford Electric Corp 3911 S Michigan Ave Chicago 15 Ill AT 5-6161
Owen Labs Inc 55 Beacon Pl Pasadena Calif RY 1-6901
Pace Electrical Instruments Co 70-31 84 St Glendale 27 LI NY DA 6-3982
Pace Eng'g 6914 Beck Ave N Hollywood Calif PO 5-0453

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Pacific Automation Products 1000 Air Way Glendale 1 Calif CH 5-6871
 Pacific Electronic Co 3217 Exposition Pl Los Angeles 18 Calif AX 3-7205
 Pacific Optical Corp 120 Glasgow Ave Inglewood 1 Calif OR 2-7845
 Pacific Relays Inc 12027 Vose St N Hollywood Calif ST 7-0209
 Pacific Scientific Co P O Box 22019 Los Angeles 22 Calif LU 3-1121
 Pacific Semiconductors Inc 10451 W Jefferson Blvd Culver City Calif VE 9-2341
 Pacific Technical Co 2047 Sawtelle Blvd Los Angeles 25 Calif GR 7-0455
 Pacific Transducer Corp 11836 W Pico Blvd Los Angeles 64 Calif GR 8-1134
 Pacific Universal Products Corp 168 Vista Ave Pasadena 5 Calif RY 1-7646
 Packaged Programs Inc 634 Penn Ave Pittsburgh 22 Pa GR 1-4756
 Packard-Bell Electronics Corp Technical Products Division 12333 W Olympic Blvd Los Angeles 64 Calif

Packard-Bell Electronics Corp., Technical Products Division

12333 W Olympic Blvd., Los Angeles 64, Calif.

BRadshaw 2-2171 GRanite 7-6721

Western Union Teleprinter, ARL, Los Angeles

Vice-President in Charge—Richard H. Long

Director of Sales and Administration—Hugh L. Vick

Director of Engineering—Dr. George J. Mueller

Director of Manufacturing—Theodore G. Eddy

WASHINGTON, D. C., OFFICE—Comm. A. J. Spriggs, USN (Ret.), Suite 1104, 1000 Connecticut Ave., Washington 6, D. C. METropolitan 8-0737

DAYTON, O., OFFICE—James L. Fyfe, 407-408, 11 W. Monument Bldg., Dayton 2, O. BALwin 3-1292

NEW YORK, N. Y., OFFICE—Albert Lederman, 440 Riverside Dr., New York 27, N. Y. MONument 6-0204

ROME, N. Y., OFFICE—Anthony J. Randazzo, Jr., 1620 Conkling Ave., Utica, N. Y. UTica 2-1516

Packard Instrument Co P O Box 428 La Grange III HU 5-6336
 Paco Electronics Co Inc 70-31 84th St Glendale 27 L I N Y DA 6-3982
 Page-Fowell Corp 1311 Riverside Dr Los Angeles 31 Calif CA 1-1166
 Paisley Products Inc Div Morningstar Nicol Inc 630 W 51 St New York 19 NY JU 2-3790
 Palmer Inc 4002 Fruit Valley Rd Vancouver Wash OX 3-0590
 Palmco Co 25 Glen Rd Mountaineer NJ Palo Alto Eng'g Co 620 Page Mill Rd Palo Alto Calif DA 5-3251
 Pameco Mill Lane Waterford Conn GI 3-1886
 Pampa Electronics Corp 7354 Frankford Ave Philadelphia 36 Pa DE 2-0679
 Panatron Developments Div Delta Broadcasting Sys 941 Sheborne Ave Dayton 3 Ohio CL 2-5713
 Panduit Co 14461 Waverly Ave Midlothian III FU 8-8810
 Pan-Electronics Corp P O Box 404 Griffin Ga 9401
 Panellit Inc 7401 N Hamlin Ave Skokie III CO 7-8300
 Panoramic Radio Products Inc 10 S 2 St Mt Vernon NY MH 4-3970
 Pantek Co P O Box 212 El Segundo Calif
 Paragon Electric Co 1600 12 St Two Rivers Wisc 303
 Paragon Revolute Corp 77 South Ave Rochester 4 NY BA 5-2480
 Parameters Inc 195 Herricks Rd New Hyde Park NY PI 6-0155
 Paramount Paper Tube Corp 614 S Lafayette St Fort Wayne 2 Ind A-4197
 Paraplegics Mfg 10068 Franklin Ave Franklin Park III GI 5-1697
 Paravox Inc 2056 E 4 St Cleveland 15 Ohio MA 1-3778
 Parker Electronics Co 1300 Cutter Mill Rd Great Neck NY HU 7-2162
 Parker-Kalon Div General American Transportation Co 1 Peckay Dr Clifton N J GR 1-1000
 Parker Metal Goods Co 85 Prescott St Worcester 5 Mass PL 4-6821
 Park Nameplate Co 34-10 Linden Pl Flushing 54 NY FL 9-7000
 Park Products Co 6900 Wade Park Ave Cleveland 3 Ohio EX 1-5125

Paris Electronics Corp 12311 Bothell Way Seattle 55 Wash GL 6190
 Parks Lab Henry Francis 920 Stambaugh St Redwood City Calif EM 8-5991
 Par-Metal Products Corp 32-62 49 St Long Island City 3 NY AS 8-8905
 Par Products Corp 602 Colorado Ave Santa Monica Calif EX 4-4219
 Parr Mfg Corp 44 Austin St Newark 2 N J BI 3-2340
 Parsons Co Ralph M Electronics Div 151 S De Lacey Ave Pasadena Calif SY 5-7061
 Partlow Corp 211 Canyon Rd New Hartford Neb 2-5136
 Partridge Transformers Ltd Roebuck Rd Tolworth Surrey England LE-6737
 Partrick & Wilkins Co 51 N 7 St Philadelphia 6 Pa LO 3-7985
 Pastushin Industries Inc 11221 Hindry Ave Los Angeles 45 Calif OR 8-4226
 Patent Button Co P O Box 710 Waterbury 20 Conn VT 6-3633
 Patterson Molds Div Universal Winding Co 90-28 Van Wyck Expressway Jamaica 18 N Y AX 7-4400
 Patton-MacGuey Co 17 Virginia Ave Providence 5 RI MO 1-1550
 Patwin Instruments Div Patent Button Co Waterbury 20 Conn PL 6-3651
 Paul & Beelman 1801 Courtland St Philadelphia 40 Pa MI 4-9050
 Paul F H & Stein Bros 235 4 Ave New York 16 NY MU 4-6371
 P B R Mfg Co H & Luzerne Sts Philadelphia 24 Pa GA 6-0932
 PCA Electronics Inc 16799 Schoenborn St Sepulveda Calif EM 2-0761
 Pearce Simpson Inc 3023 Coral Way Miami 34 Fla MI 8-1708
 Pearson Electronics 1200 Bryant St Palo Alto Calif DA 5-3147
 Peck & Harvey Mfg Corp 5650 N Western Ave Chicago 45 III ED 4-2200
 Peck Stow & Wilton Co 217-274 Center St Southington Conn MA 8-3521
 Pedersen Electronics 3667 4 Mt Diablo Blvd Lafayette Calif AT 3-3434
 Pee Dee Tape & Label Co 521 N La Brea Ave Los Angeles 36 Calif WE 8-2134
 Peer Inc 1200 Milton St Benton Harbor Mich WA 5-5828
 Peerless Electric Co 1401 W Market St Warren Ohio 3-1551
 Peerless Electrical Products 1515 S Manchester Ave Anaheim Calif PR 4-2900
 Peerless Electronics Inc 5338 Alhambra Ave Los Angeles 32 Calif CA 1-5196
 Peerless Eng'g Products Co 30-81 21st Long Island City 2 N Y RA 1-0473
 Peerless Film Processing Corp 165 W 46 St New York 36 NY PL 7-3630
 Peerless Photo Products Inc Shoreham LI NY SH 4-2817
 Peerless Products Industries 812 N Pulaski Rd Chicago 51 III BE 5-9881
 Pegasus Labs Inc 3690 W 11 Mile Rd Berkley Mich LI-3636
 Peirce Dictation Systems 5900 N Northwest Hwy Chicago 31 III RO 3-3220
 Pembrex Theatre Supply Corp 1969 S Vermont Ave Los Angeles 7 Calif RE 1-3111
 Pem Eng'g & Mfg Corp Box 311 Doylestown Pa PL 401
 Penberthy Instrument Co 4301 6 Ave S Seattle Wash Seneca 2581
 Penzo Metal Products Div Alan Wood Steel Co Oaks Penna GL 2-2271
 Penn Controls Inc Goshen Ind 3-2111
 Penn-East Eng'g Corp Box 240 Kutztown Penna OV 3-7307
 Penn Eng'g & Mfg Corp P O Box 311 Doylestown Pa RB 6-8853
 Penn Fibre & Specialty Co 2020 E Westmoreland St Philadelphia 34 Pa RE 9-4862
 Penna Fluorocarbon Co Inc 1115 N 2R St Phila 4 Penna EV 6-0603
 Penn Precision Products Inc 501 Crescent Ave Reading Pa 6-3821
 Penn Transformer Corp E Bishop St Ext Bellefonte Pa EL 5-4747
 Pennwood Numechron Co 7249 Frankstown Ave Pittsburgh 8 Pa FR 1-4200
 Penta Laboratories Inc 312 N Nopal St Santa Barbara Calif WO 5-4581
 Pertron Corp 777 S Tripp Ave Chicago 24 III SA 2-3201
 Perony Equipment Co 893 Chambers Rd Columbus 12 Ohio AX 4-3577
 Perfection Mica Co Magnetic Shield Div 20 N Wacker Dr Chicago 6 III DE 2-6130
 Performance Measurements Co 15301 W McNichols Rd Detroit 35 Mich BR 3-2900
 Perkin-Elmer Corp Main Ave Norwalk Conn VI 7-2422
 Perkin-Elmer Corp Vernistat Div Emerald St Norwalk Conn VI 7-2441
 Perkin Eng'g Corp 345 Kansas St El Segundo Calif OR 8-7215
 Perkins Mch & Gear W Springfield Mass RE 7-4751
 Permaco Le Pages Inc U S Hwy 1 New Brunswick N J CH 7-7900
 Permag Corp 214 Taxie Pl Brooklyn 5 NY MA 2-0114
 Perma-Power Co 3102 N Elston Ave Chicago 18 III NE 9-7171
 Permanent Label Corp 49 Ackerman St Bloomfield NJ ED 8-6200
 Permoflux 2300 W Armitage Ave Chicago 47 III AR 6-3740

Permoflux Products Co 4101 San Fernando Rd Glendale 4 Calif CH 5-5135
 Permo Inc 6415 N Ravenswood Ave Chicago 26 III BR 4-0075
 Permonite Mfg Co 444 Lake Shore Dr Chicago 11 III LI 2-1915
 Permutit Co Div Pfaunder Permutit Inc 3-50 W 44 St New York 36 N Y OX 7-6600
 Peschel Electronics Inc 13 Garden St New Rochelle NY NE 6-3342
 Pesco Products Div Borg Warner Corp 24700 N Miles Rd Bedford Ohio MO 2-2100
 Peter Partillon Corp 124 Boerum Pl Brooklyn 1 NY RW 5-4033
 Peters-Dalton Inc Div Detroit Harvester 17900 Ryan Rd Detroit 12 Mich TW 1-9500
 Petroff Coro Peter A 127 Water St New York 5 NY BO 9-0960
 Pettinios Inc Charles 1 E 42 St New York 17 NY MU 7-7337
 Pfandl Chemical Corp 104 Lake View Ave Waukegan III MA 3-1360
 Pfaunder Co 1000 West Ave Rochester 3 NY GE 8-8120
 Phalo Plastics Corp 530 Boston Twp Worcester 8 Mass PL 5-8658
 Phaostron Instrument & Electronic Co 151 Pasadena Ave S Pasadena Calif CL 5-1471
 Pheoll Mfg Co 5700 W Roosevelt Rd Chicago 50 III Phelps Dodge Copper Products Corp Inca Mfg Div Lincoln Hwy E Ft Wayne 1 Ind E 0511
 Phelps Dodge Copper Corp 300 Park Ave New York 22 NY PL 1-3200
 Phelps Precision Lab 4232 Scott Terrace Minnearolis 16 Minn WA 2-1200
 Phila Bronze & Brass Corp Sub P R Mallory & Co Inc 22 & Master Sts Philadelphia 21 Pa
 Philadelphia Insulated Wire Co 200 N 3 St Philadelphia 43 Pa MA 7-0456
 Philadelphia Quartz Co 1146F Public Ledger Bldg Philadelphia 6 Pa MA 7-7200
 Philadelphia Scientific Glass Co Box 46C Paleten Rd Quakertown Pa KI 6-4203
 Philamon Labs Inc 90 Hooper St Westbury LI NY ED 3-1700
 Philbrick Researches Inc George A 230 Congress St Boston 10 Mass HU 2-3225
 Phico Corp Triega & C Sts Philadelphia 24 Pa NE 4-5100
 Philco Corp Gort & Industrial Div 4700 Wissahickon Ave Philadelphia 44 Pa TE 9-4000
 Philips Electronics Inc 750 S Fulton Ave Mt Vernon NY MO 4-4500
 Phillips Control Corp 59 W Washington St Joliet III 3-3431
 Phillips Mfg Co 3475 W Touhy Ave Chicago 45 III AM 2-6020
 Phillips Process Co 192 Mill St Rochester 14 NY BA 5-8201
 Philmore Mfg Co 113 University Pl New York 3 NY AL 4-3363
 Philson Mfg Co 60 Sackett St Brooklyn 31 NY UL 5-0136
 Phoenix Precision Instrument Co 3603 N 5 St Philadelphia 40 Pa SA 2-7417
 Photobell Co 43 Vesey St New York 7 NY WU 2-6739
 Photo Chemical Prod of Calif 1715 Berkeley St Santa Monica Calif EX 5-0910
 Photocircuits Corp 31 Sea Cliff Ave Glen Cove NY GL 4-8000
 Photon Research Products 421 N Altadena Dr Pasadena Calif SY 2-4131
 Photo Crystals Inc 15 S 1 St Geneva III GE 7150
 Photoacoustic Analysis Inc 13273 Ventura Blvd N Hollywood Calif ST 7-0674
 Photoanographic Products Inc 1000 N Olive St Anaheim Calif
 Photoonit Corp 95 Madison Ave New York 16 NY MU 6-3350
 Photron Instrument Co 6516 Detroit Ave Cleveland 2 Ohio AT 1-7020
 Physics Research Labs Inc P O Box 555 Hemstead N Y IV 3-8299
 PIC Design Corp 477 Atlantic Ave E Rockaway LI NY LY 3-6478
 Pickering & Co Inc Sunnyside Blvd Plainview N Y OV 1-0200
 Picker X-Ray Corp 25 S Broadway White Plains N Y Y Piezo Products Co Whitney St Sherborn Mass TR 9-9497
 Pilgrim Screw Corp 259 Dexter St P O Box 1223 Providence 1 R I GA 1-3415
 Pilot Chemicals Inc 36 Pleasant St Watertown 72 Mass NA 4-7775
 Pilot Radio Corp 37-06 36 St Long Island City 1 N Y ST 4-5454
 Pioneer Gen-E-Motor Corp 5841 W Dickens Ave Chicago 39 III BE 7-4100
 Pioneer Patents & Products Co 3720 N New England Ave Chicago 34 III MU 5-3119
 Pizua Machine & Mfg Co 441 S College St Piqua Ohio R20
 Pittsburgh Coil Co 37 McMichael Rd Carnegie Penna BR 9-3355
 Pittsburgh Electrodryer Div McGraw-Edison Co Foot 32 St Pittsburgh Pa GR 1-6220
 Pittsburgh Plate Glass Co 1 Gateway Center Pittsburgh 22 Pa AT 1-5100
 Pix Mfg Co 75 Hudson St Newark 3 NJ HU 4-5400
 Planet Mfg Corp 225 Belleville Ave Bloomfield NJ PI 3-2874
 Planet Service Corp 88-02 88-06 102 St Richmond Hill 18 NY VI 7-1000
 Plastics Inc P O Box 551 Poteau Okla 703
 Plastic Accessories Inc 91 Mercer St New York 12 NY CA 6-7394

ALPHABETICAL LISTING of MANUFACTURERS with LOCALIZER INDEX

Plastic Capacitors Inc 2620 N Clybourn Ave Chicago 14 III DL 8-3735
 Plastic-Craft Products Corp 1 Station Plaza W Nyack NY NY 7-2524
 Plastite Corp 327 Rider Ave Bronx 51 NY LU 5-9400
 Plastics & Electronics Corp P O Box 38 Station J Buffalo 8 NY SU-1630
 Plastic Mold & Eng'g Co 157 Clifford St Providence R I GA 1-9260
 Plastic Wire & Cable Corp Box 485 Jewett City Conn DR 6-4411
 Plasti-Kote Inc 9801 Howard Dr Cleveland 3 Ohio VU 9-4800
 Plastofilm Inc 916 W Union Ave Wheaton III WH 6-2838
 Plastoid Corp 42-61 24 St Long Island City 1 NY ST 6-6200
 Plectron Corp Overton Nebr 4241
 Plummer Co Walter A 752 S San Pedro St Los Angeles 14 Calif MI 0831
 Pneumafil Corp 2516 Wilkinson Blvd Charlotte 8 N C EX 9-7441
 Poinsettia Co 112 Cedar Ave Pitman 15 NJ LU 9-7666
 Polard Electronics Corp 43-20 34 St Long Island City 1 NY EX 2-4500
 Polarizing Instrument Co S Buchhout St Irvington NY WR 9-3206
 Pollak Corp Joseph 81 Freemont St Boston 22 Mass AV 2-9550
 Polymer Corp 2120 Fairmont Ave Reading Pa 6-7241
 Polymer Industries Inc Springdale Conn FI 8-4221
 Polyphase Instrument Co E 4 St Bridgeport Pa BR 2-3203
 Poly-Scientific Corp College Ave Blacksburg Va PR 2-8042
 Polytechnic Research & Development Co 202 Tillary St Brooklyn 1 NY UL 2-6800
 Polytren Eng'g Inc P O Box 5024 Middle River 20 Md SA 7-6116
 Polytronic Inc 7326 Westmore Rd Rockville Md HA 7-7400
 Pomona Electronics Co 1126 W S Ave Pomona Calif LV 9-9549
 Ponn Machine Cutting Co Tileston St Everett 49 Mass EV 7-9232
 Poole Instruments Inc 150 Express St Dallas 21 Texas RI 7-2953
 Popper & Sons 300 4 Ave New York 10 NY OR 4-5500
 Poray Inc 3369 W Grand Ave Chicago 51 III CA 7-1000
 Porcelain Products Inc 224 N Patterson St Carey Ohio 6-2211
 Portable Electric Tools Inc 320 W 83 St Chicago 20 III HU 3-6700
 Portchester Instrument 114 Wilkins Post Chester NY WE 9-4092
 Porter-Cable Machine Co 700 Marcellus St Syracuse 4 N Y GR 6-4231
 Porter Inc H K 74 Foley St Somerville 43 Mass PR 6-8200
 Porter Co Inc H K Riverside-Alloy Metal Div Riverside N J HO 1-3000
 Positive Lock Washer Co Avenue A & Miller St Newark 5 NJ BI 3-R460
 Potter Aeronautical Corp Route 22 Union N J MU 6-3010

Potter Aeronautical Corporation, U. S. Route No. 22, Union, New Jersey
 Phone: Murdock 6-3010
 President: D. M. Potter
 Sales Manager: J. Hirsch
 Chief Engineer: M. November

REGIONAL OFFICES:

ATLANTA 5, GA.: 254 E. Paces Ferry Rd., NE, Cedar 3-4719
 DAYTON 10, OHIO: 3898 Linden Avenue, Clearwater 3-1181
 DENVER, COLORADO: 2364 E. Third Avenue, East 2-6062
 MALIBU, CALIFORNIA: 3011 Malibu Canyon Rd., Globe 6-8086
 PHILADELPHIA, PA.: 1486 Land Title Bldg., Broad Street, Rittenhouse 6-9995
 OTTAWA, ONTARIO, CANADA: 465 Wentworth Ave., Parkway 2-5535

Potter & Brumfield Inc 1200 E Broadway Princeton Ind
 Potter & Brumfield Inc Franklin Ky 1138
 Potter & Brumfield Inc Laconia Div 54 Mill St Laconia N H 188

Potter Co 1950 Sheridan Rd N Chicago III DE 6-4350
 Potter Instrument Co Sunnyside Blvd Plainview N Y OY 1-3200
 Power Designs Inc 89-25 130 St Richmond Hill 18 NY VI 9-3675
 Power Sources Inc 6 Schouler Ct Arlington 74 Mass MI 3-6662
 Power Supplies Inc 1005 Olive St Highland III 2139
 Power Transformer Co 91 Edison Pl Newark 5 NJ MA 3-3370
 Powers Co J J P O Box 211 Maywood III FI 5-5650
 Powers Regulator Co 3400 Oakton St Skokie III OR 3-6700
 Practical Electronics Mfg Co 569 W Van Buren St Chicago 7 III WA 2-6353
 Pratt Albert 114 W Lake View Ave Milwaukee 17 Wis ED 2-8988
 Precision Development Corp 2 Neil Ct Oceanside NY RO 6-0171
 Precision Instrument Parts Co 4520 San Fernando Rd Glendale 4 Calif CI 2-0331
 Precision Measurements Corp Rd 1 Millbrook Rd Flemington N J
 Precision Apparatus Co 70-31 84 St Glendale 27 LI NY
 Precision Capacitors Inc 150 W Cypress St Burbank Calif VI 9-3878
 Precision Crystal Lab 2223 Warwick Ave Santa Monica Calif EX 4-7004
 Precision Disc Grinding Corp 57 Meserole Ave Brooklyn 22 NY EV 3-3720
 Precision Electronics Inc 9101 King St Franklin Pa III GL 5-5350
 Precision Electroplating Co 519 S Oakley Blvd Chicago 12 III SE 3-5855
 Precision Hearing Aids 5157 W Grand Ave Chicago 39 III NA 2-7755
 Precision Inc 730 N Lydale Ave Minneapolis 11 Minn FR 4-2321
 Precision Line Inc 63 Main St Maynard Mass TW 7-2451
 Precision Metal Products Co 41 Elm St Stoneham Mass 6-1999
 Precision Meter Co 126 Greenpoint Ave Brooklyn 22 NY EV 3-6804
 Precision Paper Tube Co 2035 W Charleston St Chicago 47 III AR 6-5200
 Precision Radiation Instruments Inc 4223 W Jefferson Blvd Los Angeles 16 Calif RE 1-7321
 Precision Resistor Co 109 U S Hwy 22 Hillsdale N J BI 3-3809
 Precision Scientific Co 3737 W Cortland St Chicago 47 III CA 7-2660
 Precision Supply Co 292 Belmont Ave Paterson 2 NJ LA 5-7922
 Precision Thermometer & Instrument Co 1434 Brandywine St Philadelphia 30 Pa RI 6-6771
 Precision Tube Co Church Rd & Wissahickon Ave North Wales Pa OX 9-4806
 Preis Engraving Machine Co N P 651 U S Hwy 22 Hillsdale NJ
 Premier Products Div Chisholm-Ryder Co College & Highland Aves Niagara Falls NY 9186
 Premier Instrument Corp 52 W Houston St New York 12 NY GR 5-3520
 Premier Metal Products Co 337 Manida St New York 59 NY WY 1-6600
 Premier Research Labs Inc 79 7 Ave New York 11 NY AL 5-0700
 Premenco Inc 5470 Valley Blvd Los Angeles 32 Calif CA 2-0167
 Prescott TV Co 7352 Beverly Blvd Los Angeles 36 Calif WE 3-7193
 Pres Industrial Equipment Ltd Box 302 Putt Corners Rd N New Paltz NY 8481
 Pressman Associates 7803 Farnsworth St Philadelphia 15 Pa DE 3-8064
 Press Wireless Labs Inc 25 Prospect Pl N Newton 65 Mass LA 7-5600
 Presto Recording Corp Box 500 Paramus NJ DI 3-5700
 Prestolite Mfg Corp 37-27 33 St Long Island City 1 NY ST 4-6832
 Price Electric Corp E Church & 2 St Frederick Md MO 3-5141
 Printed Cellophane Tape Co 521 N La Brea St Los Angeles 36 Calif WE 8-2134
 Printed Electronics Corp 7 North Ave Natick Mass 01 3-9411
 Printleid Corp 93 Mercer St New York 12 NY CA 6-7393
 Process & Instruments 15 Stone Ave Brooklyn 33 NY GL 2-8380
 Prodelin Inc 307 Bergen Ave Kearny NJ KE 2-8600
 Producers Sales Corp 2704 W Olive Ave Burbank Calif VI 9-3144
 Product Eng'g Labs Co Inc 555 Central Ave Orange N J OR 5-4994
 Production Instrument Co 710 W Jackson Blvd Chicago 6 III FT 6-3232
 Production Research Corp Thornwood NY RO 9-2766
 Profexray Inc 1401 N 1 Ave Maywood III FI 4-7111
 Progress Electronics Co 296 Broadway New York 7 NY WO 2-8041
 Protectoseal Co 1920 S Western Ave Chicago 8 III CH 3-1400
 Protectowire Co Washington St Hanover Mass TA 6-2626
 PSC Applied Research Ltd 1500 O'Connor Dr Toronto 16 Canada PL 5-3371
 P S P Eng'g Co Div Induction Motors 9628 Otis St South Gate Calif LO 7-1451
 Pulse Eng'g Inc 2657 Spring St Redwood City Calif EM 8-3331
 Pulse Techniques Inc 1411 Palisade Ave W Englewood NJ TE 7-2575
 Pye Canada Ltd 82 Northline Rd Toronto 16 Ont Canada PL 7-3275

Pye Corp of America 1149 Raritan Ave Highland Park NJ CH 7-2277
 Pye Telecommunications Ltd Newmarket Rd Cambridge England TE 3131
 The Pyly-National Co 1334 N Kostner Ave Chicago 51 III DL 2-6300
 Pyramid Electric Co 1445 Hudson Blvd N Bergen NJ UN 5-1176
 Pyramid Instrument Corp 630 Merrick Rd Lynbrook LI NY LY 3-5600
 Pyramid Screen Corp 181 Harvard St Brookline 46 Boston Mass BE 2-6044
 Pyrene C-0-Two Div U S Hwy 1 Newark 1 NJ BI 8-2200
 Pyroferic Co Pyroferic Bldg E 216 St at Bronx Blvd New York 67 NY OL 4-3930
 Pyrofilm Resistor Co 8 Whippany St Morristown NJ JE 8-1606
 Pyrometer Instrument Co 92 Portland Ave Bergenfield NJ DU 4-5140
 "Q" Glass Co 470 Broad St Bloomfield NJ PI 3-0176
 Q L C Corp 409 Main St Greenvort N Y GP 7-1481
 Q-Line Mfg Corp 1562 61 St Brooklyn 19 NY BE 6-9320
 Quaker City Gear Works Bethayres Pa CH-0800
 Quality Components Inc 51 Marys Pa 42-817
 Quality Control Corp 401 Broadway New York 13 NY WD 6-0886
 Quality Nameplate Inc Fisher Hill Rd E Gastonbury Conn ME 3-9496
 Quam Nichols Co 234 E Marquette Rd Chicago 37 III WE 6-6150
 Quantametric Devices Inc Box 1107 Binghamton NY 3-6787
 Quantum Electronics Inc 2312 Wisconsin St N E Albuquerque N Mex 9-0211
 Quarie Controllers 381 N Main St Sharon Mass SU 4-2842
 Quietrock Co 395 St John St Spartansburg S C 8994
 Q S Corp Bronx Blvd at 216 St New York 67 N Y OL 4-3930
 Q-V-S Inc 20 N 15 St E Orange NJ OR 3-3996
 Racon Electric Co 1261 Broadway New York 1 NY MU 4-6258
 Rada Products Co 2911 Carroll Ave Chicago 12 III NE 8-0662
 Radar Design Corp 2360 James St N Syracuse 12 N Y Radar Engineers 401 E 45 St Seattle 5 Wash ME 2828
 Radex Corp 2076 Elston Ave Chicago 14 III AR 6-0500
 Radial Cutter Mfg Corp 831 Bond St Elizabeth NJ EL 5-9000
 Radiant Lamp Corp 900 Jelliff Ave Newark 8 NJ BI 3-6850
 Radiophone Co 600 E Evergreen Ave Monrovia Calif EL 8-2585
 Radiart Corp 3455 Vega Ave Cleveland 13 Ohio ME 1-5660
 Radiation Counter Labs Inc 5121 W Grove St Stokie III OR 3-8700
 Radiation Eng'g Labs Main St Maynard Mass TW 7-2996
 Radiation Inc P O Box 37 Melbourne Fla 1800
 Radiation Instrument Co P O Box 733 Silver Spring Md
 Radiation Instrument Development Lab Inc 5737 S Malsted St Chicago 21 III WE 6-2345
 Radiation Research Corp 1114 1st Ave New York 21 N Y TE 8-2513
 Radio Activities Inc 119 Dawson Ave Bonton N J DE 4-5750
 Radio City Products Co Centre & Glendale Sts Easton Pa 9122
 Radio Cooperator Co Davis & Copewood Sts Camden 3 NJ EM 5-5500
 Radio Cores Inc 9540 Tully Ave Oak Lawn III GA 2-3353
 Radio Corp of America West Coast Electronic Prods Dept 11819 W Olympic Blvd Los Angeles 64 Calif GR 8-0251
 Radio Corp of America Communications Products Dept Bldg 1-5 Camden N J
 Radio Corp of America Commercial Electronic Products Front & Cooper Sts Camden N J WO 3-8000
 Radio Corp of America Electron Tube Div Harrison NJ
 See listing →
 Radio Corp of America Semiconductor Div Somerville NJ
 See listing →
 Radio Eng'g Co 8 State St New York 4 NY WH 4-5266
 Radio Eng'g Labs 29-01 Borden Ave Long Island City 1 N Y MI 6-2100
 Radio Eng'g Products Ltd 1080 University St Montreal 3 Quebec Canada UN 6-6887
 Radio Essentials Inc 152 McQuisten Pkwy Mt Vernon N Y FA 4-4200
 Radio Frequency Co 44 Park St Medfield Mass
 Radio Frequency Labs Inc Bonton NJ DE 4-3100
 Radio Industries Inc 5225 N Ravenswood Ave Chicago 25 III UP 8-6500
 Radio Kits Inc 120 Cedar St New York 6 NY
 Radio Mfg Engineers Inc 501 Walnut St Washington III 427
 Radio Materials Corp 3325 N California Ave Chicago 18 III TR 8-3660
 Radio-Matic of America Inc 760 Ramsey Ave Hillside NJ MU 8-4973
 Radio Merchandise Sales Inc 2016 Bronzdale Ave Bronx 62 NY TY 2-6700
 Radio Music Corp 84 S Water St Port Chester N Y VE 6-8620
 Radion Corp 1130 W Wisconsin Ave Chicago 14 III MO 4-4617
 Radionics Inc P O Box 186 Cocheysville Md 1060

ALPHABETICAL LISTING of MANUFACTURERS with LOCALIZER INDEX

Radioplane Div Northrop Aircraft Inc 8000 Wopdley Ave Van Nuys Calif ST 6-7020
 Radio Receptor Co 240 Wythe Ave Brooklyn 11 NY EV 8-6000
 Radio Specialty Mfg Co 125 S E 7 Ave Portland 14 Ore BE 2-8123
 Radio TV Products Corp 308 N Lake St Grass Lake Mich 2511
 Radium Chemical Co 161 E 42 St New York 17 NY MU 7-2180
 Radix Wire Co 26260 Lakeland Blvd Cleveland 32 Ohio RE 1-9191
 Rad Motor Corp 2009 Kewaunee St Racine Wisc
 Rahm Instruments Inc 237 Lafayette St New York 12 NY RE 2-4150
 Railway Communications Inc 9351 E 59 St Raytown 33 Mo FL 3-2100
 Ram Chemicals Inc 210 E Olive St Gardena Calif FA 1-0710
 Ram Electronics Inc 600 Industrial Ave Paramus NJ CO 1-6900
 Ram Meter Inc 1100 Hilton Rd Ferndale 20 Mich LI 7-1000
 Ramo-Woolbridge Corp 5730 Arbor Vitae St Los Angeles 45 Calif OR 8-0311
 Ramo-Woolbridge Corp—Electronic Instrumentation Div P O Box 8405 Denver 10 Colo PV 4-4311

Radio Corporation of America, Electron Tube Division, Humboldt 5-3900

VP & Gen. Mgr.: D. Y. Smith
 Gen. Coml. Mgr.: L. S. Thees
 Mgr. Industrial Tube Products—C. E. Burnett
 Mgr. Distrib. Products: L. F. Holleran
 Mgr. Entertainment Tube Products: J. Farese
 Mgr. Adv. & Sales Promotion: H. S. Stamm
 Mgr. Industrial Sales: J. F. Cooper
 Mgr. Gov't Sales: G. R. Rivers
 Mgr. Distrib. Sales: D. M. Branigan
 Mgr. Entertainment Sales: L. D. Kimmel
 Mgr. Tube Industry Sales: H. M. Dean

NEWARK 2, N. J.: BO-744 Broad Street, Humboldt 5-3900, H. B. Wilson, Mgr. Entertainment Sales; D. G. Koch, Mgr. Industrial Sales

CHICAGO 54: BO-Suite 1154 Merchandise Mart Plaza, Whitehall 4-2900, W. Hieatt, Mgr. Entertainment Sales; H. F. Harker, Mgr. Industrial Sales

LOS ANGELES 22: BO-6355 E. Washington Blvd., Raymond 3-8361, R. B. Means, Mgr. Entertainment Sales; B. Walley, Mgr. Industrial Sales

Radio Corp. of America, Semiconductor and Materials Div., Somerville, N. J., Randolph 5-4600

Gen. Mgr.: A. M. Glover
 Mktg Mgr.: F. F. Neuner
 Sales Mgr.: T. R. Hays
 Mgr. Government Sales: R. D. Wick

NEWARK 2, N. J.: BO-744 Broad St., Humboldt 5-3900, Eastern Ill.

CHICAGO 54, ILL.: BO-Suite 1154 Merchandise Mart Plaza, Whitehall 4-2900, Central Is.

LOS ANGELES 22, CAL.: BO-6355 E. Washington Blvd., Raymond 3-8361, Western Is.

Ramsey Radio & TV Co 925 St Louis Ave Vandalia Ill 1270
 Randall Inc Douglas 6 Pawcatuck Ave Westerly R I PA 5-5757
 Randolph Products Co Carlislat NJ GE 8-3700
 Rangertone Inc 73 Winthrop St Newark 4 NJ HU 5-2550
 Ransom Research 323 W 7 St San Pedro Calif TE 2-4844
 Rapid Electric Co 2881 Middletown Rd Bronx 61 NY TA 8-2200
 Rapid Electroplating Process 1414 S Wabash Ave Chicago 5 Ill WA 2-0952
 Rapid Specialties Co 325 W Huron St Chicago 10 Ill DE 7-1440
 Rascher & Betzold Inc 730 N Franklin St Chicago 10 Ill SO 7-5169
 Ratigan Electronics Inc 3614 Maple Ave Los Angeles 11 Calif AD 3-4141
 Rau Fastener Co 102 Westfield St Providence R I UN 1-7100
 Rauland-Borg Corp 3515 W Addison St Chicago 19 Ill CO 7-1300
 Raven Screen Corp 124 E 124 St New York 35 NY LE 4-8408
 Rawson Electrical Instrument Co 117 Potter St Cambridge 42 Mass KI 7-4041
 Raybestos-Manhattan Inc 61 Willett St Passaic NJ GR 3-2000
 Raybestos-Manhattan Inc Plastic Products Div Manheim Pa MO 5-2211
 Rayco Electronic Mfg Inc 11116 Cumpston St N Hollywood Calif ST 7-7770
 Raymond Eng'g Lab Inc Smith St Middletown Conn DT 6-7745
 Ray-O-Vac Co 212 E Washington Ave Madison Wisc 5-7201
 Raypar Inc 7800 W Addison St Chicago 34 Ill TU 9-3700
 Ray Proof Corp 513 W 54 St New York 19 NY PL 7-0810
 Raytheon Mfg Co Maynard Lab Thompson St Maynard Mass TW 7-2945
 Raytheon Mfg Co Receiving & Tube Semiconductor Oper 55 Chapel St Newton 58 Mass RI 4-7500
 Raytheon Mfg Co 100 River St Waltham 54 Mass TW 3-5860
 Raytheon Mfg Co Commercial Equio Div 100 River St Waltham 54 Mass TW 3-5860
 Raytheon Mfg Co Ceramic Sales Foundry Ave Waltham Mass TW 3-5860
 Raytheon Mfg Co Microwave & Power Tube Operations Foundry Ave Waltham 54 Mass
 R B M Div Essex Wire Corp 131 Godfrey St Logansport Ind 5121
 RCL Mfg Co New Jersey Ave Riverside NJ HO 1-1003
 R D Electronic Lab Inc 21-28 45 Rd Long Island City 1 NY RA 9-0744
 Rea Co J B 1723 Cloverfield Blvd Santa Monica Calif EX 3-7201
 Ready Power Co 11231 Freud Ave Detroit 14 Mich VA 2-1717
 Rea Magnet Wire Co E Pontiac St Ft Wayne Ind AN 5201
 Retora Co 6100 S Archer Rd Summit Ill GL 8-0450
 Recorded Publications Labs 1558 Pierce Ave Camden 5 NJ WD 3-3000
 Recorded Tape of the Month Club 449 W 51st St New York 19 N Y PL 7-7340
 Recordisc Corp 33-01 Far Rockaway Blvd Edgemere 31 NY FA 7-3900
 Reccor Corp 52-35 Barnett Ave Long Island City 4 NY DE 5-3344
 Rectico Inc 963 Frelinghuysen Ave Newark 12 NJ BI 3-8738
 Rectifier Corp 21-28 45 Rd Long Island City 1 NY RA 9-0744
 Rectifier Eng'g Co 1803 E 7 St Los Angeles 21 Calif TU 5169
 Redman Electronics Corp 92 Prospect St Thompsonville Conn RI 5-8024
 Redman Co Owosso Mich SA 5-5151
 Red Point Corp 1907 Riverside Dr Glendale 1 Calif TH 2-4895
 Red Seal Electric Co 6321 Detroit Ave Cleveland 2 Ohio ME 1-6309
 Reeder & Co Charles M 171-173 Victor Ave Detroit Mich TO 8-3831
 Reed & Reese Inc 717 N Lake Ave Pasadena 6 Calif SY 4-1188
 Reene Electronics Inc 609 W Lake St Chicago 6 Ill RA 6-9755
 Reeves Equipment Corp 10 E 52 St New York 22 N Y PL 9-7189
 Reeves-Hoffman Div Cherry & North Sts Carlisle Pa 2480
 Reeves Instrument Corp Roosevelt Field Garden City N Y PI 6-8100
 Reeves Soundcraft Corp 10 E 52 St New York 22 NY PL 9-2644
 REF Mfg Corp 393 Jericho Turnpike Mineola NY PI 2-8400
 Reflectone Corp Boston Post Rd Stamford Conn FI 8-4201
 Agency Div Inam Inc 7900 Pendleton Pike Indianapolis 26 Ind LI 7-3581
 Rego Insulated Wire Co 830 Monroe St Hoboken N J OL 6-2020
 Reichhold Chemicals Inc 525 N Broadway White Plains NY WH 8-6200
 Reid Enterprises 2610 E 67 St Long Beach 5 Calif NE 6-2239
 Reid Mfg Co A 80 Shore Rd Port Washington NY PO 7-7700
 Reilly Tar & Chemical Corp 1615 Merchant Bank Bldg Indianapolis 4 Ind ME 8-7531
 Reiner Electronics Co Centre & Glendale Sts Easton Pa 9122

Reiter Co F 3340 Bonnie Hill Dr Hollywood 28 Calif HO 2-2913
 Rek-O-Kut Co 39-19 108 St Corona N Y DE 5-3500
 Relay Sales Inc P O Box 186 W Chicago Ill 1100
 Reliable Spring & Wire Forms Co 3167 Fulton Rd Cleveland 9 Ohio Me 1-2800
 Reliance Automatic Lighting Co 1922 Mead St Racine 3 Wisc ME 2-6171
 Reliance Electric and Eng'g Co 24701 Euclid Ave Cleveland 17 Ohio RE 2-7000
 Reliance Mica Co 341-39 St Brooklyn 32 NY ST 8-0282
 Reliance Paint Co Corrosive Div 64 S 6th St Brooklyn 11 N Y EV 7-1680
 Rembar Co 147 Main St Dobbs Ferry NY OF 3-6510
 Rem-Cru Titanium Inc Midland Pa MI 3-3431
 Remington Corp Willey St Auburn NY AU 3-7371
 Remington Rand Univac Div Sperry Rand Corp Univac Park St Paul 16 Minn MI 8-2451
 Remington Rand Univac Div Sperry Rand Corp 315 4 Ave New York 10 NY SP 7-8000
 Remler Co 2101 Bryant St San Francisco Calif VA 4-3435
 Rembrandt Inc 6 Parmalee St Boston 18 Mass HI 5-8910
 Reon Resistor Corp 117 Stanley Ave Yonkers NY YD 5-9850
 Repath Pacific Div Arnold Eng'g Co 641 E 61 St Los Angeles 1 Calif AD 3-7262
 Republic Aviation Corp Farmingdale L I New York CH 9-1100
 Republic Flow Meters Co 2240 Diversey Pkwy Chicago 47 Ill BR 8-6000
 Republic Foil & Metal Mills Inc 55 Triangle St Danbury Conn PI 3-2731
 Republic Rubber Div Lee Rubber & Tire Corp 1410 Albert St Youngstown 1 Ohio RI 3-2131
 Republic Steel Corp Republic Bldg Cleveland 1 Ohio PR 1-1400
 Resdel Eng'g Corp 330 S Fair Oaks Ave Pasadena Calif SY 5-5197
 Research Development Mfg Inc 429 E Cullom St Philadelphia 41 Pa GI 5-9700
 Research Electronics Lab Roslyn Pa TU 4-8098
 Research Industrial Lab of Electronics Roslyn Pa TU 4-8098
 Research Instrument Co P O Box 9168 Montavilla Station Portland 16 Ore BE 5-6745
 Research Specialties Co 2005 Hopkins St Berkeley 7 Calif LA 5-3833
 Res Eng'g Inc 731 Arch St Philadelphia 6 Pa WA 2-5841
 Resistance Products Co 914 S 13 St Harrisburg Pa CE 6-9006
 Resistoflex Corp Woodland Rd Roseland NJ CA 6-7700
 Resistors Inc 5226 W 26 St Chicago 13 Ill
 Resistron Labs Inc 2908 Nebraska Ave Santa Monica Calif EX 3-5217
 Revco Inc 1900 Lyndale Ave S Minneapolis 5 Minn FE 5-8615
 Revere Camera Co 320 E 21 St Chicago 16 Ill
 Revere Copper & Brass Inc 230 Park Ave New York 17 NY MU 9-6800
 Revere Corp of America Wallingford Conn CO 9-7701
 Rex Corp Hayward Rd W Acton Mass CO 3-7721
 Rex Rheostat Co 3 Foxhurst Rd Baldwin LI NY BA 3-5160
 Reynolds Electric Co 3000 River Rd River Grove Ill TU 9-2232
 Reynolds Metals Co P O Box 2346-2F Richmond 18 Va
 R-F Electronics Inc King Ave Weymouth 82 Mass ED 5-5200
 Rheem Mfg Co Electronics Div 7777 Industry Ave Rivera Calif TO 1-9271
 Rhein Sound Systems Inc 133 Hamilton St New Haven 5 Conn SP 7-4175
 Rhodes & Sons Co M M Box 627 Taunton Mass VA 4-5321
 Rho Eng Co 2242 Sepulveda Blvd Los Angeles Calif
 Rhodes Inc M H 30 Bartholomew Ave Hartford Conn JA 2-4265
 Rich Electronics Inc 212 NW 8 Ave Miami 36 Fla FR 4-1304
 Richards Co Arlby S 35 Winnester St Newton Highlands 61 Mass LA 7-4385
 Richards Electrocraft Inc 3739 N Kedzie Ave Chicago 18 Ill KE 9-8138
 Richardson-Allen Corp 116-15 15 Ave College Point 56 N Y FL 3-2828
 Richardson Co 27 Ave & Lake St Melrose Park Ill MA 6-8900
 Richardson Labs Kenneth 254 Vincent Ave Lynbrook NY LY 9-4736
 Richmond Inc 922 S Myrtle Ave Monrovia Calif EL 9-2555
 Riestler & Thysmacher Co 1526 W 25 St Cleveland 13 Ohio CH 1-0154
 Rigidized Metals Corp 658 Ohio St Buffalo N Y MA 6362
 Rino Inc 7962 S E Powell Blvd Portland 6 Ore PR 5-2323
 Ripley Co 1 Factory St Middletown Conn DI 6-6679
 Risco 265 Minna St San Francisco 3 Calif EX 2-7820
 Riverbank Labs Eng'g Dept P O Box 65 Geneva Ill GE 2267
 Riverside-Alloy Metal Div Porter Co H K 1 Pavilion Ave Riverside NJ HO 1-3000
 Rison Electronics Inc 2414 Reddie Dr Silver Spring Md
 R-J Audio Products 80 Shore Rd Port Washington NY PO 7-7700
 RK Mfg Co P O Box 112 Marion Ill OR 251
 RME Div Electro Voice Inc Buchanan Mich 8X 5-6831
 Rowwell Corp 662 Pacific St Brooklyn 17 NY MA 2-2121

ALPHABETICAL LISTING of MANUFACTURERS with LOCALIZER INDEX

Robbins Aviation 1735 W Florence Ave Los Angeles 47 Calif PL 8-1171
 Robbins & Myers Inc 1345 Lagonda Ave Springfield Ohio FA 3-6461
 Roberts Toledo Rubber Co 1200 Prospect Ave Toledo 5 Ohio CH 8-4421
 Robertshaw-Fulton Controls Co Aeronautical Div Santa Ana Freeway at Euclid Ave Anaheim Calif KE 5-R151
 Robertshaw-Fulton Co Acro Div Columbus 16 Ohio CL 3-8531
 Robertshaw-Fulton Controls Co Fulton Siphon Div P O Box 400 Knoxville 1 Tenn 4-1641
 Robinson Mfg Co 426 E Shaffer Cleburne Texas MI 5-7741
 Robinette Co W C 802 Fair Oaks Ave S Pasadena Calif RY 1-1594
 Robins Industries Corp 214-26 41 Ave Bayside GL NY BA 5-4200
 Robison Aviation Inc Teterboro NJ AT 8-2500
 Robinson Inc Edward E Machinery Div 280 Preakness Ave Paterson 2 NJ AR 4-8405
 Robinson Machine Works 802 E 8 St New Albany Ind 4-8264
 Robinson Recording Labs 35 S 9 St Philadelphia 7 Pa WA 2-6800
 Robinson Corp 21300 W 8 Mile Rd Detroit 19 Mich KE 4-7400
 Rockbar Corp 650 Halstead Aves Mamaroneck NY MA 9-7300
 Rockbestors Products Corp Nicoll & Canner Sts New Haven 3 Conn ST 7-1141
 Rockwell Co W S 220 Eliot St Fairfield Conn CL 9-1021
 Rockwell Eng'g Co 2133 E 45 St Indianapolis 5 Ind CL 1-9453
 Rodale Mfg Co 6 & Minor Sts Emmaus Pa WO 5-9071
 Roebing's Sons Corp John A 640 S Broad St Trenton 2 NJ EX 6-5511
 Roelan Co Toledo Mass TW 7-2321
 Rogan Bros 8031 N Monticello Ave Skokie Ill DR 5-1233
 Rogers & Ake Co 150 N Union St Akron Ohio JE 5-7148
 Rogers Corp Rogers Conn PR 4-9605
 Rogers Electric Corp 49 Blecker St New York 12 NY GR 7-8820
 Rohden Mfg Co Inc 4739 W Montrose Ave Chicago 41 Ill SP 7-4600
 Rohn Mfg Co 116 Limestone Bellevue Peoria 5 Ill 4-9156
 Rolab Studios Walnut Tree Hill Sandy Hook Conn GA 6-2466
 Rola Co Inc 2530 Superior Ave Cleveland 14 Ohio PR 1-4242
 Rotand Radio Corp 716 S Columbus Ave Mt Vernon NY MD 4-1500
 Rollan Electric Co 8233 S Princeton Ave Chicago 20 Ill RA 3-4000
 Roller Bearing Co of America Sullivan Way W Trenton NJ EX 3-7191
 Roller Smith Corp 1825 W Market St Bethlehem Penna UN 7-9771
 Romac Products Co 48-01 25 Ave Long Island City 3 NY RA 8-2631
 Romar Plastics Inc 1311 E Main St St Charles Ill ES 8-5499
 Roma Cable Corp Ridge St Rome NY RD 3000
 Ronan & Kunz 502 S Kalamazoo Ave Marshall Mich ST 1-3948
 Ronar Inc 1316 Sherman Ave Evanston Ill GR 5-8244
 Ronette Acoustical Corp 190 Earle Ave Lynbrook NY LY 3-5500
 Rosan Inc 2901 W Coast Hwy Newport Beach Calif LI 8-5533
 Rosco Labs 29 Moore St Brooklyn 6 NY EV 8-8400
 Rosemount Eng'g Co 9424 Lyndale Ave S Minneapolis 20 Minn TU 1-2685
 Rosenau Harris & Co Ontario & I Sts Philadelphia 34 Pa RE 9-0646
 Ross Mfg Co 2538 Peterson Ave Chicago 45 Ill DR 4-6330
 Restan Corp 5660 59 St Maspeth 78 NY TW 4-7558
 Rotating Components Inc 267 Green St Brooklyn 22 NY EV 9-3490
 Rotex Punch Co 2350 Alvarado St San Leandro Calif LO 9-8180
 Rota Mfg Co 1030 W 2 St Xenia Ohio DR 2-3574
 Rototest Labs Inc 2803 Los Flores Blvd Lynwood Calif NE 6-9238
 Rotron Mfg Co Schoonmaker Lane Woodstock NY WD 2401
 Row Engravers 262 E 16 St Paterson 4 NJ MU 4-1426
 Rowe Industries 1702 Wayne St Toledo 9 Ohio WA 5665
 Royal Communication Systems 11462 Euclid Ave Cleveland 6 Ohio SW 1-4277
 Royal Electric Corp 95 Grand Ave Pawtucket RI 2-8600
 Royal McBee Corp Westchester Ave Port Chester N Y WE 7-3000
 Royal Metal Mfg Co 175 N Michigan Ave Chicago 1 Ill ST 2-5010
 Royal Precision Corp Westchester Ave Port Chester NY WE 7-3000
 Royco Instruments 720 Arthur St Albany Calif LA 4-2658
 Royco Instruments Inc 874 Fabian Way Palo Alto Calif YO 8-3626
 Roy Co Milton 1300 E Mermaid Lane Philadelphia 18 Pa CH 7-8000
 Royson Eng'g Co 103 N Penn St Hathors Pa OS 5-2600

RS Electronics Corp 435 Portage Ave Palo Alto Calif DA 3-9063
 Rubber & Asbestos Corp 225 Belleville Ave Bloomfield NJ PI 8-1300
 Rubbercraft Corp of Calif 1800 W 220 St Torrance Calif FA 8-5402
 Ruby Chemical Co 68-70 McDowell St Columbus 16 Ohio CA 1-3055
 Rue Products 1628 Venice Blvd Venice Calif EX 8-2241
 Ruesch Machine Co H J 407 Mulberry St Newark 2 NJ MA 3-0759
 Ruge Associates Arthur C 733 Concord Ave Cambridge 38 Mass KE 7-5516
 Rumble Inc 15026 Oxnard St Van Nuys Calif ST 0-1466
 Russell Burdall & Ward Bolt & Nut Co Midland Ave Port Chester NY
 Russell & Stoll Co Inc 125 Barclay St New York 7 N Y DI 9-1500
 Rutherford Electronics Co 8944 Lindblade St Culver City Calif TE 0-4362
 Ryan Co S C 1316 Yale Place Minneapolis 3 Minn FE 9-7231
 Ryerson & Son Joseph T 16 & Rockwell Sts Chicago 8 Ill RO 2-2121
 S & A Electronics 1025 Nevada St Toledo 5 Ohio LE 7521
 Safe Flight Instrument Corp J Water St White Plains NY WH 6-9500
 Safetee Glass Co 4717 Stenton Ave Philadelphia 44 Pa MI 4-1200
 Safeway Heat Elements Inc 680 Newfield St Middleboro Conn DI 6-601
 Sage Electronics Corp 302 N Goodman St Rochester 7 NY GR 3-5770
 Sage Labs Inc 30 Guinan St Waltham 54 Mass TW 4-1210
 Sag Harbor Industries Bwa N Sag Harbor N Y SA 5-0440
 Sagman Steering Gear Div GMC 3900 Holland Saginaw Mich PL 4-9111
 Saine Equipment Lab Harry T Rt 2 Box 407 E Main Ave Morgan Hill Calif 9-0066
 St Cecilia Co 125 Bergenline Ave Westwood NJ WE 5-2252
 St Elor Corp P O Box 507 Newtown Br Cincinnati 44 Ohio LO 1-6454
 St John X-Ray Lab Califon NJ 49
 St Marys Carbon Co State St St Marys Pa 42-844
 St Regis Paper Co Panelyte Div 261 Madison Ave New York New York
 Samples Machine Co A M 208 Tazewell Pike Knoxville 18 Tenn 6-5526
 Sampson Chemical & Pigment Corp 2830 W Lake St Chicago 12 Ill SA 2-6346
 Sanborn Co 175 Wyman St Waltham 54 Mass TW 4-6300
 Sanders Associates 95 Canal St Nashua NH TU 3-3321
 San Fernando Electric Mfg Co 1509 1 St San Fernando Calif EM 1-8581
 Sanford Miller Co 691 Bedford Ave Brooklyn N Y UL 8-2817
 Sangamo Electric Co Springfield Ill 2-7711
 Santa Monica Bay Sheltered Workshop 2521 5 St Santa Monica Calif EX 9-7741
 Saratoga Industries Congress & Ballston Ave Saratoga Springs NY 4100
 Saratoga Plastics Inc N Walpole NH NW 543
 Sarco Co 350 Fifth Ave New York 1 NY CH 4-5767
 Sargeant & Wilbur Heat Treating Corp 170 York Ave Pawtucket RI PA 3-5900
 Sargent Electric Corp 630 Merrick Rd Lynbrook N Y LY 3-5604
 Sargent-Raymont Co 4926 E 12 St Oakland 1 Calif KE 6-5277
 Sauerisen Cements Co 1045 N Canal St Pittsburgh 15 Pa ST 1-2323
 Saxtonburg Ceramics Saxtonburg Pa FL 2-1566
 Saxon Products Inc 1661 Boone Ave New York 60 NY WY 1-0120
 Scaco Controls Inc P O Box 41 Cooper St Delanco N J NO 1-4717
 Scala Radio Co 2814 19 St San Francisco 10 Calif VA 6-2898
 Scanlin Electronics Inc 11624 W Pico Blvd Los Angeles 64 Calif GR 8-3771
 Scatter-Communications Inc 4923 St Elmo Ave Bethesda 14 Md DL 6-1500
 Schaevitz Eng'g U S Rte 130 & Schaevitz Blvd Camden N J NO 2-8000
 Schafer Custom Eng'g 235 S 3 St Burbank Calif TH 5-3561
 Schaffer Air Industries 290 N Henry St Brooklyn 22 NY EV 9-3764
 Schauer Mfg Corp 4501 Alpine Ave Rossmoyne Ohio SY 1-3030
 Schenectady Varnish Co Congress St & 9 Ave Schenectady 3 NY DI 6-2354
 Schenectady Varnish Canada Ltd 409 Comstock Rd Scarborough Ont Canada PL 7-5136
 Scherma Mfg Co F H 424 Broome St New York 13 NY WA 5-2077
 Scherma Mfg Co M A Congress St & 9 Ave Schenectady 3 N Y DI 6-2354
 Scherr Co George 200 Lafayette St New York 12 NY CA 6-3512
 Schindlers 2429 Beverly Ave Santa Monica Calif EX 9-5942
 Schirmer-National Alarm Co 20 Westside Ave Bergenfield NJ DU 4-9628
 Schjeldahl Co G T Northfield Minn
 Schmidt Inc Geo T 4100 N Ravenswood Ave Chicago 13 Ill EA 7-0300

Schrack Electrical Sales Corp 1100 Madison Ave New York 28 N Y YU 8-1510
 Schulerich Electronics Inc Sellersville Pa AL 7-2771
 Schutte & Koerling Co Cornwells Heights Bucks Co Pa ME 9-0900
 Schuster Mfg Corp 84 Parete Ave N Arlington N J KE 2-2094
 Schwietzer Inc Peter J Lee Mass LE 7
 Schwietzer Inc Peter J 261 Madison Ave New York NY MU 2-8400
 Scibly Bros 4915 W 67 St Chicago 38 Ill PD 7-5600
 Science Pictures Inc 5 E 57 St New York 22 NY PL 1-1710
 Scientific-Atlanta Inc 2162 Piedmont Rd N E Atlanta 9 Ga TR 5-7291
 Scientific Coil Co 5619 Broadway Chicago 40 Ill LO 1-9356
 Scientific Electric 105 Monroe St Garfield NJ PR 7-0507
 Scientific Glass Apparatus Co 100 Lakewood Terrace Bloomfield NJ PI 3-2200
 Scientific Radio Products Inc 215 S 11 St Omaha Nebr AT-9787
 Scientific Road Service 4301 Sheridan St Hyattsville Md WA 7-0535
 Scientific Wood Cabinet Co 89 Holmes St Belleville 9 NJ PL 9-3500
 Scintilla Division Bendix Aviation Corporation Sidney New York

Scintilla Division, Bendix Aviation Corporation, Sidney, New York, Phone Sidney 3-9511
 Sls. Product Mgr.: D. W. Newcomb
 DALLAS: RO-2608 Inwood Road, Fleetwood 2-2160
 DALLAS: D-Contact Electronics, Inc., 2403 Farrington, Riverside 1-9891
 DAYTON: RO-1900 Hulman Bldg., 120 W Second St., Baldwin 6-2341
 DETROIT: RO-Paterson Bldg., 18033 Mack Ave., Tuxedo 5-5242
 LOS ANGELES: RO-117 E. Procidencia Ave., Victoria 9-2211, Thirnowall 6-1671
 LOS ANGELES: D-Avnet Corp., 8966 National Blvd., TEXas 0-6141
 MIAMI: D-Airwork Corp., Int'l Airport Branch, Tuxedo 8-3467
 MILWAUKEE: RO-5906 N. Port Washington Rd., Woodruff 4-3450
 NEW YORK: D-Avnet Electronic Supply Co., 34-36 N. Moore Street, REekman 3-6780
 NEW YORK: RO-545 Cedar Lane, Teaneck, N. J., TEaneck 6-5221
 PHILADELPHIA: D-H. H. Powell Co., 2102 Market St., LORust 7-5286
 SEATTLE: RO-8425 First Ave., South, PARKway 6-9100
 WASHINGTON: BO-1701 "K" St., NW, REpublic 7-8118
 CANADA, MONTREAL: Que-Aviation Electric Ltd., 200 Laurentien Blvd., Riverside 4-2811

Scott Inc H H 385 Putnam Ave Cambridge 39 Mass KI 7-0646
 Scott Recording Lab Municipal Airport Tuscaloosa Ala PL 8-5415
 Scovill Mfg Co 99 Mill St Waterbury 20 Conn PL 4-1171
 Scruggs Loyd Co P O Drawer 232 Festus Mo YE 7-3606
 Scully Machine Co 62 Walter St Bridgeport Conn ED 4-5300
 Seaboard Electric Products Corp 417 Canal St New York 13 NY DI 9-2155
 Seager Standard Carbon Co 291 Church St New York 13 NY WA 5-1125
 Sealetric Switch & Relay Corp 6025 N Keystone Ave Chicago 30 Ill KE 9-7502
 Selectro Corp 610 Fayette Ave Mamaroneck NY MA 9-7800
 Sealco Corp Warwick Industrial Park Providence 5 RI ST 1-4700
 Seals Inc 165 S Fair Oaks Ave Pasadena Calif RY 1-4049
 Seaton Corp Reading Rd at Amity Cincinnati 15 Ohio VA 1-7444
 Seamless Rubber Co 253 Hallowell Ave New Haven 3 Conn ST 7-2211
 Seco Mfg Co 5015 Penn Ave S Minneapolis 19 Minn WA 6-4545
 Secor Metals Corp 7 Intervale St White Plains NY WH 9-4757
 Security Controls Inc 503 Franklin St Buffalo 2 N Y Seely Electronics 1060 S La Brea Ave Los Angeles 19 Calif WE 3-1183
 Seely Instrument Co 377 4 St Niagara Falls NY 2-1276
 Segal Edward 72 Spring St New York 12 NY RE 2-1812
 Seg Electronics Co Inc 1778 Flatbush Ave Brooklyn 10 N Y CL 2-6333

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- Seismograph Service Corp 6200 E 41 St Tulsa 1 Okla RI 3-1381
- Selas Corp of America Dresher Penna MI 6-6600
- Sellers Co 2102 Jackson St Dallas 1 Texas RI 1-5836
- Sel Rex Corp 75 River Rd Nutley 10 N J MU 2-5200
- Semcom 262 E 16 St Paterson 4 N J AR 1-9766
- Semimetals Inc 130-11 90 Ave Richmond Hill 18 NY VI 9-6165
- Semrow Products Co 4317 N Ravenswood Ave Chicago 13 III GR 7-7660
- Seneca Falls Machine Co 314 Fall St Seneca Falls NY 1437
- Sensitive Research Instrument Corp 310 Main St New Rochelle NY BE 5-230 0
- Sensory Inc 10 New St Morristown N J JE 8-7661
- Sequoya Wire 2201 Bay Rd Redwood City Calif EM 9-0331
- Serdex Inc 12 Bowdoin Sq Boston 14 Mass CA 7-7160
- Service Instruments Corp 171 Official Rd Addison III TE 4-7828
- Service Parts Systems 13380 E 9 Mile Rd E Detroit Mich PR 7-3503
- Servo Corp of America 2020 Jericho Turnpike New Hyde Park NY 7-2810
- Servomechanisms Inc 12500 Aviation Blvd Hawthorne Calif OS 5-7111
- Servomechanisms Inc 1200 Prospect Ave Westbury N Y
- Servomex Controls Ltd 80 Shore Rd Port Washington NY PD 7-7700
- Servo Instruments Inc 640 Terminal Way Costa Mesa Calif MI 6-2427
- Servonics Inc 822 N Henry St Alexandria Va TE 6-8800
- Servo-Recording Instruments Inc 1815 W Van Buren St Phoenix Ariz AL 4-9234
- Servo Systems Co 55 Meeker Ave Newark 12 N J BI 8-0762
- Servo-Tek Products Co 1086 Gamble Rd Hawthorne NJ HA 7-3100
- Servotrol Co 114 W Illinois St Chicago 10 III Setchell-Carlson Inc New Brighton St Paul 12 Minn ME 3-3131
- Sessions Clock Co 61 E Main St Forestville Conn LU 2-7401
- Setchell-Carlson Inc New Brighton St Paul 12 Minn ME 3-3131
- Sethco Mfg Co 2284 Babylon Tpk Merrick N Y MA 3-4220
- Set Screw & Mfg Co Bartell III TE 7-2831
- Seymour Mfg Co 200 Franklin St Seymour Conn TU 8-2541
- Shapiro Div Illinois Tool Works St Charles Rd Elgin III SH 1-7900
- Shallcross Mfg Co Jackson & Pusey Aves Collingdale Pa LU 3-5100
- Shamban & Co W S 11617 W Jefferson Blvd Culver City Calif TE 0-6877
- Shand & Jurs Co 7600 8th St Berkeley 10 Calif AS 3-2345
- Shannon Luminous Materials Co 7356 Santa Monica Blvd Hollywood 46 Calif MO 7-5509
- Shaw Insulator Co 160 Coit St Irvington NJ ES 4-7000
- Sheffco Mfg Corp 323 Bergen Blvd Fairview NJ WH 5-1300
- Shelford Corp Box 893 Dayton 1 Ohio KE-3131
- Sheltered Workshop 2521 5th St Santa Monica Calif EX 9-7741
- Shepard Labs Inc Broad St at Park Ave Summit N J CR 3-5255
- Sheppard Co R H 101 Philadelphia St Hanover Pa 3751
- Sherman Industrial Electronics Co 505 Washington Ave Belleville NJ PL 9-5800
- Sherman Mfg Co H B 22 Barney St Battle Creek Mich WD 4-7104
- Sherold Crystals Inc 1510-12 McGee Trafficway Kansas City Mo VI 2-9792
- Sherwin-Williams Co 101 Prospect Ave Cleveland 1 Ohio TO 1-7060
- Sherwood Electronics Labs Inc 2802 W Cullom Ave Chicago 18 III IR 8-7300
- Shieldalloy Corp Newfield NJ OX 2-4200
- Shielding Inc N Mead Ave Riverside N J TA 9-1433
- Shrader Co F W 11623 S Broadway Los Angeles 61 Calif PL 6-9166
- Shrader Sound Inc 2803 M St N W Washington 7 DC AD 4-4730
- Shure Bros 222 Hartrey Ave Evanston III DA 8-9000
- Shurite Meters 61 Hamilton St New Haven 8 Conn ST 7-5826
- Sibley Co Bridge St Haddam Conn DI 5-4501
- Sickles Div F W GIC 165 Front St Chicopee Mass RE 3-6621
- Siele Design Products 10460 San Pablo Ave El Cerrito Calif CA 5-0164
- Sierra Electronic Corp 3885 Bohannon Dr Menlo Park Calif DA 6-2060
- Sightmaster Corp 85 Beechwood Ave New Rochelle NY NE 6-1200
- Sigmadyne of Conn P O Box 869 Port Chester NY JE 1-8601
- Sigrow Instruments Inc 170 Pearl St S Braintree Mass VI 3-5000
- Signalite Inc 37 Neptune Hwy Neptune NJ PR 5-2490
- Silicon Crystals Inc Fe of Madison St Wilmington 99 Dela OL 4-2389
- Silicone Insulation Inc Seabury Ave & Butler Pl Bronx 61 NY SY 2-4400
- Silicone Seals Inc 3125 Milwaukee Ave Chicago 18 III KE 9-1782
- Silfrocks-Miller Co 10 W Parker Ave Maplewood NJ SO 2-6171
- Simmonds Aerocessories Inc 105 White Plains Rd Tarrytown NY ME 1-7500
- Simmonds Aerocessories Inc Vergennes VI TR 7-2911
- Simmons Fastener Corp N Broadway Albany 1 NY 62-5431
- Simonds Saw & Steel Co 470 Main St Fitchburg Mass 3-3731
- Simplotrol Products Corp 24 Salisbury St Worcester 5 Mass PL 6-8363
- Simplex Equipment Corp 55 La France Ave Bloomfield NJ PI 3-1400
- Simplex Time Recorder Co 24 S Lincoln St Gardner Mass 2500
- Simplex Valve & Meter Co 7 E Orange St Lancaster Pa EX 4-3792
- Simplex Wire & Cable Co 1203 Fidelity-Phila Trust Bldg Philadelphia 9 Pa Kingsley 5-0186
- Simson Electric Co 5200 W Kinzie St Chicago 44 III ES 9-1121
- Simpson Mfg Co Mark 32-28 49 St Long Island City 3 NY YE 2-3400
- Simpson Optical Mfg Co 3200 W Carroll Ave Chicago 24 III VA 6-3030
- Sittler Corp 18 N Ada St Chicago 7 III SE 3-4616
- Sinclair Mfg Co 8 Worcester St Charley Mass AT 1-2627
- Single Crystal Corp of America Saxonburg Bld Saxonburg Pa FL 2-2548
- Size Control Co Div American Gage & Machine 2500 W Washington Blvd Chicago 12 III MO 6-6710
- SKF Industries Inc Front St & Erie Ave Philadelphia 33 Pa GA 6-6400
- Skiztron Electronic & TV Corp 180 Varick St New York 14 NY WA 4-7060
- Skil Corp 5033 Elston Ave Chicago 30 III PA 5-2000
- Skotbe Electronics Inc Sub Astron Corp 204 Bridge St Peckville Pa HU 9-4726
- Skydyne Inc River Rd Port Jervis NY 3-2241
- Skysweeper Inc P O Box 92 McHenry III BC 1090
- Skylway Precision Tool Co 825 E Broadway San Gabriel Calif CU 3-4181
- Slater Electric & Mfg Co 45 Sea Cliff Ave Glen Cove NY Orinle 6-1100
- Slaughter Co Young & College Sts Piqua 9 Ohio 2528
- Slepien & Co Arthur 2 Burroughs St Bridgeport Conn ED 5-5138
- Slip Ring Co of America 3612 W Jefferson Blvd Los Angeles 16 Calif TE 0-2561
- Small Motors Inc 2076 Elston Ave Chicago 14 III AR 6-6900
- Smith Assoc Inc Rawdon 1735 20 St N W Washington 9 D C
- Smith Corp 10 531 N 4 St Tipp City Ohio 664
- Smith Inc Herold 18 2326 Nostrand Ave Brooklyn 10 NY CL 3-7900
- Smith-Meeker Engg Co 157 Chambers St New York 7 NY WO 4-5510
- Smooth-On Mfg Co 572 Communipaw Ave Jersey City 4 NJ
- Snap-on Tools Corp Kenosha Wis OL 4-8581
- SNC Mfg Co P O Box 277 Oshkosh Wis ST-187
- Snyder Mfg Co 22 & Ontario Sts Philadelphia 40 Pa MA 5-6565
- Soderberg Mfg Co 628 S Palm Ave Alhambra Calif CU 3-4063
- Sola Electric Co 4633 W 16 St Chicago 50 III BI 2-1414
- Solar Mfg Corp 4553 Seville Los Angeles 58 Calif LU 3-1411
- Solartron Electronic Group Ltd Queens Rd Thames Ditton Surrey England EM-5522
- Somer's Brass Co Baldwin Ave Waterbury Conn
- Sonar Radio Corp 3050 W 21 St Brooklyn 24 NY ES 2-6000
- Sones Inc 73 S State Rd Upper Darby Pa FI 2-1721
- Sonic Industries 19 Wilbur St Lynbrook NY
- Sonic Recording Products 58 Mill Rd Freeport N Y FR 8-3610
- Sonneborn Son L Bldg Prods Div 404 4 Ave New York 16 N Y MU 9-5210
- Sonotone Corp P O Box 200 Saw Mill River Rd Elmsford N Y LY 2-6400
- Sorensen & Co Stamford Conn
- Sorensen & Co Richards Ave Norwalk Conn TE B-6571
- Sorenson Industrial Electronic Co R No 10 Dover NJ FO 6-3905
- Soroban Eng'g Inc P O Box 1717 Melbourne Fla 2525 S O S Cinema Supply Corp 602 W 52 St New York 19 N Y PL 7-0440
- Sound Apparatus Co Stirling NJ MI 7-0600
- Sound Electronics Labs Div G H Poulsen Co 1702 Wayne St Toledo Ohio WA 4821
- Sound Screen Supplies Inc 752 Broadway New York NY GR 3-2253
- Soundscribe Corp 6 Middletown Ave New Haven Conn ST 7-2125
- South Bend Lathe Works 425 E Madison St South Bend 22 Ind CE 2-3311
- Southco Div South Chester Corp Lester La TI 3-8600
- Southern Electronics Corp 150 W Cypress Ave Burbank Calif VI 9-3293
- Southern Instruments Computer Div Frimley Rd Camberley Surrey England CA 2230
- Southern Plastics Co 408 Pendleton St C AL 4-1142
- Southern Screw Co P O Box 1360-EI Statesville NC TR 3-7213
- South River Prods Co 377 Turnpike South River NJ SR 6-5252
- Southwest Products Inc Alamo Downs Rt 4 San Antonio Texas GE 2-5266
- Southwestern Industrial Electronics Co 2831 Post Oak Rd Houston 19 Texas MO 7-6611
- Sparta Mfg Co Dover Ohio 4-2380
- Sparton Control Systems Div Sparks-Withington Co 2301 E Michigan Ave Jackson Mich ST 4-9131
- Spaulding Fibre Co Inc 1325 San Julian St Los Angeles 15 Calif GR 6-7341
- Spaulding Fibre Co 310 Wheeler St Tonawanda NY JA-2000
- Spaulding Products Co 550 W Barner St Frankfurt Ind 4494
- Speak-O-Phone Recording & Equip Co 23 W 60 St New York 23 NY CO 5-3550
- Speary Instruments Lab Inc 312 W Vine Ave Knoxville 02 Tenn 5-0216
- Specialties Inc 261 Madison Ave New York 16 N Y OX 7-4400
- Specialty Automatic Machine Corp RR Gerrish Ave Chelsea 50 Mass CH 4-6160
- Specialty Eng'g & Electronics Co 79 Clifton Pl Brooklyn 38 NY UL 7-4750
- Specific Electronics 1995 E Fair Oaks Ave Pasadena Calif RY 1-6140
- Specific Products Co 21051 Costanzo Woodland Hills Calif DI 0-3131
- Spectralab Instruments 404 N Halstead Ave Pasadena Calif RY 1-7044
- Spectral Electronics Div Carrier Corp 1704 S Del Ray Ave San Gabriel Calif AI 9-4178
- Spectrum Instruments Inc 44-05 30 Ave Long Island City 3 N Y AS 8-8033
- Speedassembly Equipment Co Box 344 Fords NJ VA 6-1040
- Speedway Mfg Co Thor Power Tool Co 1834 S 52nd Ave Cicero 50 III BI 2-2500
- Speed Resistor Div Sperry Corp Bradford Pa 7108
- SPELLMAN TV Co 3029 Webster Ave New York 67 NY KI 7-0306
- Spencer-Kennedy Labs Inc 1320 Soldiers Field Rd Boston 35 Mass AL 4-5400
- Spencer Mfg Co 3253 N Cicero Ave Chicago 41 III MU 5-0444
- Sperry Gyroscope Co Sunnydale Dev Center 294 Commercial St Sunnydale Calif RE 9-2344
- Sperry Gyroscope Co Air Arm Div Great Neck N Y FT 7-3600
- Sperry Gyroscope Co Surface Armament Div Great Neck N Y FI 7-3600
- Sperry Gyroscope Co Marine Div Roosevelt Field Mineola N Y
- Sperry Products Inc Shelter Rock Rd Danbury Conn PI 8-3581
- Sphere Co 25 Amity St Little Falls NJ LI 4-2550
- Spraincraft Inc 4122 W State St Milwaukee 8 Wisc DI 2-0730
- Sprainform Inc 65 Mechanic St Attleboro Mass AT 1-2885
- Springs Products Co Henrietta St & Duffy Ave Hicksville LI NY WE 1-6550
- Spruive Inc James S 4908 Hamden Lane Washington 14 DC OL 6-8608
- Spoos Co Manum Ave High Point N C 2-1123
- Sprague Electric Co Marshall St North Adams Mass P O 3-5311
- Sprague of Wisconsin Inc 6 & Beech Sts Grafton Wisc GR-817
- Spravlat Corp 1 Park Ave New York 16 NY MU 3-1289
- Springer Aircraft Radio Co Earl W Route 11 Box 330 Indianapolis Ind FL 6-2690
- Springfield Enterprises 138-17 Springfield Blvd Springfield Gardens 13 N Y LA 8-1938
- Spring Packing Corp 332 S Michigan Ave Chicago 4 III WF 9-0670
- Spruce Pine Mica Co P O Box 456 Spruce Pine NC PO 5-4241
- S & S Machinery Co 140 53rd St Brooklyn 32 N Y 5 Stackbin Corp 1079 Main St Pawtucket RI PA 2-1600
- Stackpole Carbon Co St Marys Pa 4-1521
- Staedtler Inc Hackensack NJ
- Stahlin Bros Inc 500 Maple St Belding Mich MI 1-0500
- Stainless Inc 3 St North Wales Pa 4871
- Stamford Metal Specialty Co 427 W Broadway New York 12 NY WO 4-8637
- Stanat Mfg Co 523 Shames Dr Westbury N Y ED 4-8700
- Stancil-Hoffman Corp 921 N Highland Ave Hollywood 38 Calif HO 4-7461
- Standard Coil Products Co 2085 N Hawthorne Ave Melrose Park III FI 4-5680
- Standard Crystal Co 1714 Locust St Kansas City Mo VI 2-6841
- Standard Electric Mfg Co Haddon Ave W Berlin NJ BE 7-0207
- Standard Electric Time Co 89 Lagan St Springfield 2 Mass RE 6-7237
- Standard Electrical Products Co 2240 E 3 St Dayton 3 Ohio KE-1191
- Standard Electronics Corp Sub Dynamics Corp of America 385 Emmett St Newark 5 NJ
- Standard Electromagnetics Inc 43-45 Carroll St Frederick Md MO 3-4161
- Standard Electronics Div Radio Eng'g Labs 30th & Borden Sts Long Island City NY ST 6-2100
- Standard Electronics Research Corp 2 E End Ave New York 21 N Y RH 6-4100
- Standard Gage Co Poughkeepsie NY GR 1-3100
- Standard Instrument Corp 657 Broadway New York 12 NY AL 4-5380
- Standard Instruments P O Box 11556 Dallas 18 Texas GA 6-3443
- Standard Locknut & Lockwasher Inc 2250 Valley Ave Indianapolis 18 Ind ME 2-9505
- Standard Metals Corp 262 Broad St N Attleboro Mass NY 5-9395
- Standard Pressed Steel Co Box 899 Jenkintown Pa TU 4-7300

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Standard Record Mfg Co 70 N San Gabriel Blvd Pasadena CA Calif RY 1-0537
 Standard Register Co 626 Albany St Dayton 1 Ohio Adams 6181
 Standard Screw Co 2701 Washington Blvd Bellwood III LI 4-3500
 Standard Tool & Mfg Co 237 Laurel Ave Kearny NJ KE 2-5500
 Standard T V Tube Corp 700 Dryades St New Orleans 12 La TU 5361
 Standard Winding Co 44 Johns St Newburgh NY 1541
 Standard Wire & Cable Co 3840 Overland Ave Los Angeles 34 Calif TE 0-6467
 Stanley Aviation Corp 2501 Dallas St Denver Colo EM 6-3581
 Stanley Chemical Co Berlin St E Berlin Conn
 Stanley Industrial Sales Stanley Works Lake St New Britain Conn
 Stanley Transformer Co 31-23 Vernon Blvd Long Island City N Y
 Stanwyck Winding Co 137-151 Walth Ave Newburgh NY 3360
 Staplex Co 775 S Ave Brooklyn 32 NY SO 8-2335
 Star-A Electric Mfg Co 269 Meherole St Brooklyn 6 NY NY 7-0790
 Star Expansion Products 719 A Second Ave New York N Y QX 7-0084
 Star-Kimble Motor Miehle Printing Press & Mfg Co 200 Bloomfield Ave Bloomfield NJ PI 3-8100
 Star Porcelain Co Muirhead Ave Trenton 9 NJ EX 2-3154
 Star Stainless Screw Co 655 Union Blvd Paterson NJ BE 4-2300
 State Labs Inc 649 Broadway New York 12 NY OR 7-8400
 States Co 19 New Park Ave Hartford 6 Conn AD 3-6232
 Statham Labs Inc 12401 W Olympic Blvd Los Angeles 64 Calif BR 2-6282
 Statistical Instr Co 330 Haven Ave New York 33 N Y LD 8-1223
 Staver Co 41-51 N Saxon Ave Bay Shore LI NY BA 7-3620
 Stavid Eng'g Inc U S Route 22 Plainfield NJ PL 7-1600
 Sta-Wax Electric Co 553 N Chestnut St Ravenna Ohio AX 6-6462
 Steinen Mfg Co Wm 43 Bruen St Newark 5 N J MA 2-5747
 Stearns Magnetic Products 635 S 28 St Milwaukee 46 Wisc EV 3-4800
 Steel & Alloy Tank Co 1 Bessemer St Newark 5 NJ BI 2-5000
 Steel Co Herman D Lafayette Bldg Philadelphia 6 Pa LO 3-1990
 Steelman Phonograph & Radio Co 2-30 Anderson Ave Mt Vernon NY MD 4-1500
 Steel Protection & Chemical Co Mooresville Ind 102 Steinen Mfg Co Wm 43 Bruen St Newark 5 NJ WA 2-5747
 Steiner-Ives Co Springfield Rd Union NJ MU 8-7474
 Stein Inc 190 Henry St Stamford Conn DA 4-7561
 Stephens Tru-sonic Inc 8538 Warner Rd Culver City Calif TE 0-6671
 Sterling Bolt Co 363 W Erie St Chicago 10 III SU 7-3000
 Sterling Electric Motors Inc 5401 Telegraph Rd Los Angeles 22 Calif RA 3-6211
 Sterling Mfg Co 7201 Wentworth Ave Cleveland Ohio OL 1-5800
 Sterling Transformer Corp 297 N 7 St Brooklyn 11 NY ST 2-4200
 Sterling Varnish Co Haysville Borough Sewickley Pa SE 1550
 Stevens-Arnold Inc 7 Elkins St South Boston 27 Mass AN 8-1170
 Stevens Mfg Co Geo 6022 N Rogers Ave Chicago 30 III JU 8-1300
 Stevens Mfg Co P O Box 1007 Annex Mansfield Ohio TU 4-1311
 Stevens Paper Mills Rainbow Rd Windsor Conn MU 8-3654
 Stevens Products Inc 86 Main St E Orange NJ OR 2-4886
 Stevens Walden Inc Shrewsbury St Worcester 4 Mass SW 9-4111
 Stevenson Bro 110 Race St Philadelphia 6 Pa MA 7-0760
 Steward Eng'g Co Box 277 Sequoi Calif
 Steward Mfg Co D M Chattanooga Tenn TA 1-1561
 Stewart Corp F W 4311 Ravenswood Ave Chicago 13 III GR 2-6600
 Stewart Eng'g Co Box 277 Sequoi Calif GR 5-4790
 Stewart Instrument Co 6507 Grand River Detroit 8 Mich TY 8-1050
 Stewart & Stevenson Service 4516 Harrisburg Blvd Broadston 1 Texas CA 5-5341
 Stewart Trans-Lux 1111 Sepulveda Blvd Torrance Calif DA 6-1422
 Stewart Warner Electronics Div 1300 N Kostner Ave Chicago 51 III AL 2-1000
 Slicht Co Herman N 27 Park Pl New York 7 NY RE 2-8163
 Singson Edwin B 70 Franklin Ave Brooklyn 5 NY UL 5-3131
 Stoddard Aircraft Radio Co 6644 Santa Monica Blvd Hollywood 38 Calif HO 4-9294
 Stoelting Co C H 424 N Homan Ave Chicago 24 III SA 2-3833
 Stokes Corp F J 5500 Tabor Rd Philadelphia 20 Pa CU 9-0100
 Stokes Moulded Products Div Electric Storage Battery Co 241 Taylor St Trenton 4 NJ EX 2-7153
 Stone City Machine & Tool Co 1206 7 St Bedford Ind 3373
 Stone Paper Tube Co 900 Franklin St N E Washington 17 DC NO 7-3100
 Stonite Cell Corp Rt 130 Yardville N J JU 77323

Stow Mfg Co 443 State St Binghamton NY 3-6411
 Strandberg Eng'g Labs Inc 416 W Market St Greenboro N Car 5-1326
 Stratford Corp 44 W 28 St New York 1 NY MU 4-1554
 Strat-O-Seal Mfg Co 3039 W Fullerton Ave Chicago 47 III HU 9-1282
 Streeter Amet Grays Lake III BA 3-4801
 Stremple Instrument Corp Lake George N Y GL 2-8098
 Stretch Wire Co P O Box 893 New Rochelle N Y RE 6-6900
 Stroblite Co 75 W 45 St New York 36 NY CI 5-7911
 Stromberg-Carlson Div General Dynamics Corp 100 Carlson Rd Rochester 3 NY HU 2-2200
 Stromberg-Carlson Div General Dynamics Corp 1895 Hancock Street San Diego 12 Calif CY 8-8331
 Stromberg Time Corp 135 S Main St Thomaston Conn AT 3-4381
 Strong Electric Corp 87 City Park Ave Toledo 1 Ohio CH 8-3741
 Struthers-Dunn Inc Lambs Rd Pitman N J LU 9-7500
 Studebaker Hydraulic Products Co 1733 N 33 Ave Melrose Park III FI 4-0065
 Studio TV Product Sales 342 W 40 St New York 18 NY OX 5-2199
 Stueck Inc W Whitney Box 355 Old Saybrook Conn EV 8-9309
 Stupakoff Div Carborundum Co Latrobe Pa KE 7-3331
 Sturupp Inc 50 Silver St Middletown Conn DI 6-9681
 Sturterant Co P A Addison III TE 4-2000
 Suchle Electronics Co 22 & Hayes Ave Camden 5 NJ WO 4-3845
 Suffolk Products Corp Woodbine & Scudder Ave Northport NY NO 3-1700
 Sullivan Ltd H W 80 Shore Rd Port Washington NY PO 7-7700
 Summit Coil Co 4 Claremont Rd Bernardsville NJ BE 8-0744
 Summit Electronic Products 14706 Armita St Van Nuys Calif ST 5-1581
 Summit Industries Inc 2104 P Rosecrans Ave Gardena Calif FA 1-3212
 Sun Chemical Corp 10-10 44 Ave Long Island City 1 NY ST 6-1100
 Suncoast Instruments Div Milton Roy Co 6301 49th St St Petersburg Fla ME 5-1102
 Sun Dial Corp P O Box 326 Caldwell NJ CA 6-4334
 Sun Electric Corp Harlem & Avondale Ave Chicago 31 III NE 1-6000
 Sun Tube Corp 181 Long Ave Hillside NJ WA 3-0400
 Superior Electric Co 83 Laurel St Bristol Conn LU 2-9561
 Superior Electronics Corp 208 Piaget Ave Clifton NJ GR 2-2500
 Superior Flux & Mfg Co 1536 St Clair Ave Cleveland Ohio SU 1-9373
 Superior Graphite Co 33 S Clark St Chicago 3 III RA 6-7939
 Superior Insulated Wire Co Route 9W W Haverstraw NY HA 9-2933
 Superior Steatite & Ceramic Corp 91 W Forest Ave Englewood NJ EN 3-4555
 Superior Tube Co Box 191 Norristown Pa BR 5-2070
 Surface Combustion Corp 2375 Dorr St Toledo 1 Ohio Surprenant Mfg Co 172 Sterling St Clinton Mass 2180
 Sulton Electronic Co 2415 Nicholasville Rd Lexington Ky 2-6249
 Swan Electronics Co 5016 N Austin Ave Chicago 30 III SP 4-4875
 Swedlow Plastics Co 6986 Bandini Blvd Los Angeles 22 Calif RA 3-3211
 Swenson & Co V H 554 Elm St Arlington NJ NE 2-5703
 Swift Metallizing & Laminating Corp 10 Love Lane Hartford 1 Conn JA 2-1181
 Swift & Sons M 10 Love Lane Hartford 1 Conn JA 3-1181
 Swift Textile Metallizing and Laminating Corp 10 Love Lane Hartford 1 Conn JA 2-1181
 Swiss Jewel Co Lafayette Bldg Philadelphia 6 Pa LO 3-1990
 Switchcraft Inc 1328 N Halsted St Chicago 22 III MI 2-7136
 Sylvania Electric Products Inc 500 Evelyn Ave Mountain View Calif VO 7-6981
 Sylvania Electric Products 60 Boston St Salem Mass PI 5-4500
 Sylvania Electric Products Co Electric Systems Div 100 First Ave Waltham 54 Mass TW 3-9200
 Sylvania Electric Products Inc Sylvania Home Electronics 700 Ellicott St Batavia N Y 3470
 Sylvania Electric Products Inc New York Office 1740 Broadway New York 19 NY
 Sylvania Electric Products Inc Parts Div 12 2nd Ave Warren Pa 3220
 Synchronic Radio & Electronic Corp 235 Jersey Ave New Brunswick NJ CN 7-3700
 Symphony Electronics Corp 925 S Western Ave Los Angeles 6 Calif RE 4-1173
 Syncor Products Co 30 Eastern Ave Malden 48 Mass MA 2-1364
 Synthane Corp Montgomery Ave Oaks Pa GL 2-2211
 Syntrol Co 263 Lexington Ave Homer City Pa HO 9-8011
 Syntronic Instruments Inc 100 Industrial Rd Addison III KI 3-6445
 Systems Development Inc 307 Water St Binghamton NY 5-5365
 Systrom Corp 2055 Concord Blvd Concord Calif MU 2-3650
 Taag Designs Inc 55 Wiltoughy St Brooklyn 1 NY MA 4-6772
 Taber Instrument Corp 111 Gundry St N Tonawanda NY LU 2626

Tabel Mfg Co 1336 Ballentine Blvd Norfolk 12 Va MA 2-1973
 Table & Ticket Co 1021 W Adams St Chicago 7 III HA 1-3883
 Taffet Radio & TV Co 27-05 Brooklyn-Queens Expressway W Woodside 77 NY RA 1-3500
 Takt Corp P O Box 346 Newark Ohio DI 4-3115
 Talk-A-Phone Co 1512 S Pulaski Rd Chicago 23 III LA 1-8414
 Talking Devices Co 4447 Irving Park Rd Chicago 41 III PA 5-5610
 Tallier & Cooper 75 Front St Brooklyn 1 NY UL 8-0500
 Tally Register Corp 5300 14 Ave N W Seattle 7 Wash DE 5500
 Ta-Mar Inc 11571 W Jefferson Blvd Culver City Calif TE 0-7479
 TA Mfg Corp 4607 Alger St Los Angeles 39 Calif CH 5-3748
 Tape Cable Corp 790 Linden Ave Rochester 10 NY LU 6-0330
 Tape of the Month Inc 449 W 51 St New York 19 NY PL 7-7340
 Tarc Electronics Inc 48 Urban Ave Westbury LI NY ED 4-3900
 Tarzian Inc Sarkes 415 N College Ave Bloomington Ind 7251
 Tataln Measuring Systems Co Kimberlon Rd Phoenixville Pa WE 3-8965
 Taylorel Corp 185 Murray St Rochester 6 NY GL 3-8368
 Taylor-Emmett Controls Inc 445 E Turkeyfoot Lake Rd P O Box 728 Akron 9 Ohio TY 6-2312
 Taylor Fibre Co Bna 471 Norristown Pa GL 2-2811
 Taylor Instruments Companies 95 Ames St Rochester 1 NY GE 8-4800
 Taylor-Winfield Corp 1052 Mahoning N W Warren Ohio 2-2521
 Teac Corp 80 Main St White Plains NY
 Techloy Co Rahns Pa HU 9-7211
 Tech Labs Bergen & Edsall Blvd Palisades Park NY WI 4-2221
 Tech-Master Corp 75 Front St Brooklyn 1 NY UL 5-3535
 Technic Inc 39 Snow St Providence 3 RI JA 1-4200
 Technical Appliance Corp 1 Taco St Sherrburne NY

Technical Appliance Corp. 1 Taco St. Sherrburne NY Phone Sherrburne 7-2211

President—H. H. Brown

Vice President Sales—Tore Lundahl

Mgr.—Commercial Sales—Albert K. Fowler

Vice Pres. Purchasing—Harold Senkel

Vice Pres.—Dir. of Engineering—Robert T. Leitner

Sales Pro. Mgr.—Fred R. Voorhaar

Credit Mgr.—William H. Resch

Technical Associates 140 W Providence Ave Burbank Calif VI 9-1994
 Technical Development Co 305 S Chester Ph Glenolden Pa LU 3-3330
 Technical Devices Co 2340 Centinela Ave Los Angeles 64 Calif GR 7-0708
 Technical Electronics Corp 4060 Ince Blvd Culver City Calif TE 0-5461
 Technical Material Corp 700 Fenimore Rd Mamaroneck NY OW 8-4800
 Technical Measurement Corp 140 State St New Haven 11 Conn UN 5-5187
 Technical Oil Tool Corp 1057 N La Brea Ave Los Angeles 38 Calif OL 4-1763
 Technical Ply-Woods Sales 6756 Crandon Ave Chicago 49 III BU 8-1330
 Technical Products Co Instrument Div 6670 Lexington Ave Los Angeles 38 Calif HO 4-8121
 Technical Service Corp 1404 W Market St Louisville 3 Ky JU 7-8476
 Technical Tape Corp Morris Heights New York 53 NY LU 3-8000
 Technicraft Co 1156 Commonwealth Ave Boston 34 Mass AS 7-7377
 Technicraft Labs Inc Thomaston-Waterbury Rd Thomaston Conn AT 3-4315

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- Technikote Corp 63 Seabring St Brooklyn 31 NY
 Technitrol Eng'g Co 1952 E Allegheny Ave Philadelphia 34 Pa GA 6-9105
 Techniques Inc 52 Jackson Ave Hackensack NJ HU 9-5333
 Technograph Printed Electronics 185 Valley St Tarrytown NY ME 1-4567
 Technograph Printed Electronics Inc 902 Northwest Blvd Winston-Salem N Caro PA 3-0767
 Technology Instrument Corp 531 Main St Acton Mass CO 3-7711
 Tech-Ohm Resistor Corp 36-11 33 St Long Island City 6 NY ST 6-2274
 Techtron Corp 81 Washington St Boston 8 Mass CA 7-7484
 Techtron Electronics Ltd 129 Park Ave Park Crest NJ Tec-Kit Co Box 8827 Kansas City 15 Mo EN 2-2367
 Teclord Crystal Labs 4126 Colerain Ave Cincinnati 23 Ohio KI 1-6467
 Ted Mfg Corp 11010 Johnson Dr Shawnee Kansas NE 2-5477
 Tetramix Inc P O Box 831 Portland 7 Ore CY 2-2611
 Tel-Autograph Corp 8700 Bellanca Ave Los Angeles 45 Calif OR 8-4756
 Telechrome Mfg Corp 28 Ranick Dr Amityville LI NY LI 1-3600
 Tele-Coil Co 2733 Saunders St Camden 5 NJ EM 5-7528
 Tele Communications Inc 41 E 42 St New York NY MU 7-8436
 Telecommunications Ltd Newmarket Rd Cambridge England TA 3131
 Telecomputing Div Telecomputing Corp 12838 Salicoy St N Hollywood Calif
 Telectro Industries Corp 35-18 37 St Long Island City 1 NY YE 2-8600
 Telectron Co Div of Elliott & Evans Bldg 9 Brown International Airport Ft Lauderdale Fla JA 2-8551
 Tele-Dynamics 5151 & Parkside Ave Phila Penna
 Telegraph Condenser Co N Acton London W 3 England AC 0061
 Telegraph Construction & Maintenance Co Lte Mercury House Theobalds Rd London W C 1 England HO 8711
 Telemated Cartoons 70 E 45 St New York 17 NY MU 6-8933
 Telematic Industries Inc 16 Howard Ave Brooklyn 7 NY GL 2-7788
 Telemeter Magnetics Inc 2245 Pontius Ave Los Angeles 64 Calif
 Telemetering Associates 6419 Indigo St Houston Texas GY 4-3406
 Telephonics Corp Park Ave Huntington NY HA 3-6200
 Teleplex Corp 1515 N Western Ave Hollywood 27 Calif HO 4-7391
 TelePrompster Corp 311 W 43 St New York 36 NY JU 2-3800
 Telerad Mfg Corp Route 69 Flemington NJ FL 808
 Telerad Mfg Corp 1440 Broadway New York 18 NY BR 9-0893
 Teleradio Eng'g Corp Shannon & Barrett Sts Wilkes-Barre Pa 3-0111
 Tele-Smoke Corp 15 Ward St Bloomfield NJ
 Telatenna Co P O Box 7 Lapaz Ind SU 4-3626
 Teletest Instrument Corp 136-10 31 Rd Flushing 54 NY FL 9-7700
 Teletronics Labs Inc 1835 W Rosecrans Ave Gardena Calif FA 1-0627
 Teletronics Lab Inc 54 Kinbel St Westbury NY ED 3-1027
 Televex Co AG Lakeview Ave Yonkers NY SP 9-1297
 Televideo Corp of America 3317 Exposition Pl Los Angeles 18 Calif AX 2-0591
 Television Corp 1415 Golf Rd Des Plaines Ill RD 3-8100
 Tele-Vue Towers Inc 701 49 St St Petersburg Fla FL 2-8841
 Telex 1633 Eustis St St Paul 1 Minn MI 6-7211
 Telex Inc Mendee St Springfield 4 Mass RE 9-5631
 Tel-Instrument Electronics Corp 728 Garden St Carlstadt NJ WE 9-1600
 Telfor Inc N Murray Ridge Rd Elyria Ohio FA-28623
 Tel-Labs Inc 1050 2 St Manchester NH NA 3-5711
 Teller Co Box 989 Butler Pa BU 7-5739
 Telonic Industries Inc 73 N 2 Ave Beech Grove Ind ST 6-9239
 Telrex Labs Asbury Park NJ PR 5-7252
 Temco Aircraft Corp P O Box 6191 Dallas 2 Texas BR 6-7111
 Tempel Mfg Co 1939 Bryn Mawr Ave Chicago 26 Ill TR 1-8100
 Temperature Eng'g Corp U S Hwy 130 Riverton NJ TA 9-3880
 Tempil Corp 132 W 22 St New York 11 NY OR 5-6610
 Tennalab 417 S 10 St Quincy Ill BA 2-0237
 Tenna Mfg Co 7580 Garfield Blvd Cleveland 25 Ohio VU 3-8080
 Tenney Eng'g Inc 1090 Springfield Rd Union NJ MU 6-7870
 Tension Inc Pin Hill Harvard Mass GL 6-3511
 Tensolite Insulated Wire Co 198 Main St Tarrytown NY ME 1-2300
 Tensor Electric Development Co 1873 Eastern Pkwy Brooklyn 33 NY HV 5-9200
 Tepro Electric Corp 5 St Paul St Rochester 4 NY BA 5-0478
 Terao Co 1068 Raymond Ave St Paul 14 Minn MI 6-2514
 Terrall Corp 19 Lane St Waltham 54 Mass TW 3-4700
 Terris Div Consolidated Siphon Supply Co 22 Wooster St New York 13 NY CA 6-7410
 Testa Mfg Co 10122 E Rush St El Monte Calif CU 3-6022
 Tetrad Co 62 St Mary St Yonkers NY YO 3-1474
 Tevco Insulated Wire 108 E Prospect Ave Burbank Calif VI 9-8574
 Texas Capacitor Co Div K-C-K Corp 922 S 75 St Houston 23 Texas WA 3-9173
 Texas Instruments Inc 6000 Lemmon Ave Dallas 9 Texas FL 2-1787
 Texas Instruments Inc Industrial Instrumentation Div 3609 Buffalo Speedway Houston 6 Texas SA 6-1411
 Textloid Products Co 81 Rumford Ave Waltham 54 Mass TW 3-2225
 Texttron Corp Box 4252 Austin 51 Texas GL 3-8378
 Theale Eng'g Corp 2104 E Villa St Pasadena Calif SY 9-4077
 Thermador Electronics Div Norris-Thermador Corp 2000 S Camfield Ave Los Angeles 22 Calif RA 3-5189
 Thermal American Fused Quartz Co 18 Salem St Dover NJ FD 6-2807
 Thermal Refractories Corp 4501 Dell Ave N Bergen NJ BI 5-1860
 Therm-O-Disc Inc S Main Rd Mansfield Ohio LA 2-4311
 Thermo Electric Mfg Co 6112 Huff St Dubuque Iowa 3-3501
 Thermo Electric Co 109 S St Saddle Brook NJ HU 9-5800
 Thermo Materials Inc 4040 Campbell Ave Menlo Park Calif DA 6-2780
 Thermosen Inc 375 Fairfield Ave Stamford Conn DA 5-1324
 Theta Instrument Corp 48 Pine St E Paterson NJ SW 7-7700
 Thibault Chemical Corp 780 N Clinton Ave Trenton 7 NJ EX 6-8195
 Thomas & Betts Co 36 Butler St Elizabeth NJ EL 4-4321
 Thomas Electronics Inc 118 9 St Passaic NJ GR 3-4040
 Thomas Instrument Co Phoenix NY 5134
 Thomas Mold & Die Co Henry & Grant St Wooster Ohio HO 2-5911
 Thomas Organ Co #345 Haynehurst Ave Sepulveda Calif EM 2-3131
 Thomas & Skinner Inc 1120 E 23 St Indianapolis 7 Ind WA 3-2448
 Thomas & Sons R Lisbon Ohio HA 4-7231
 Thomas & Sons William Slocum Ave Ridgefield NJ WW 3-5500
 Thompson-Bramer & Co Sub American Machine & Dry 228 N La Salle St Chicago 1 Ill FR 2-6858
 Thompson Clock Co H C 38 Federal St Bristol Conn LU 2-3186
 Thompson Inc A J Rt 1 Box 812 Florissant Mo TE 7-3565
 Thompson Products Inc Piston Ring Div (Ramsey Corn) 3693 Forest Park Blvd St Louis 8 Mo JE 3-3508
 Thompson Products Inc Electronics Div 2196 Clarkwood Rd Cleveland 3 Ohio HE 1-6765
 Thomson Industries Inc 1029 Plandome Rd Manhasset NY MA 7-1800
 Thor Ceramics Inc 225 Belleville Ave Bloomfield NJ NJ 3-7797
 Thordarson Meissner Mfg Div Maquirr Industries Inc 7th & Belmont St Carmel Ill 1200
 Thorens Co Thorens Ave New Hyde Park NY FL 3-5111
 Thwing Albert Instrument Co 5351 Pulaski Ave Phila PA GE 8-5719
 Tibbels Industries Inc Colcord Ave Camden Me CF 6-3366
 Tickle Eng'g Works Arthur 21 Delavan St Brooklyn 31 NY MA 5-4200
 Timber Ton Inc 79 Conn Ave Freeport NY FR 9-0636
 Time Electronic Sales 373 Broadway New York 13 NY BA 7-3922
 Time-O-Matic Inc P O Box 850 Danville Ill 611
 Times Facsimile Corp 540 W 58 St New York 19 NY JU 2-3030
 Times Wire & Cable Co AW Int'l Silver Co 358 Hall Ave Wallingford Conn CO 9-3381
 Timben Roller Bearing Co 1835 Duerber Ave S W Canton 6 Ohio GL 3-4511
 Timstrol Co 1461 W Grand Ave Chicago Ill CA 6-1520
 Timmerman Products Inc Department 16 P O Box 6888 Cleveland 1 Ohio SH 1-9300
 Tinsley Labs Inc 2526 Grove St Berkeley 4 Calif TH 3-6836
 Tinco Mfg Co 14760 Calvert Van Nuys Calif ST 6-7881
 Tippitronic Inc 68 Olive St Chagrin Falls Ohio CH 7-7773
 Titanium Alloy Mfg Div Hall Lead Co 111 Broadway New York 6 NY BA 7-0943
 Titan Metal Mfg Co Bellefonte Pa EL 5-4712
 Titchener & Co E H 67 Clinton St Binghamton NY 4-4354
 TKM Electric Corp 1160 University Ave Rochester 7 NY BR 1-4271
 Todd Products Co 156 Gramatan Ave Mt Vernon NY FA 4-0223
 Toledo Commutator Co Owosso Mich SA 5-8192
 Toledo Scale Co 1027 Telegraph Rd Toledo Ohio GR 4-5441
 Toman & Co E 8700 W 47 St Lyons Ill LY 3-3501
 Topatron Inc 947 E Diaz Ave Ojai Calif MI 6-1600
 Topflight Corp 160 E 9 Ave York Pa B-1541
 Topper Mfg Co Inc 147-12 Liberty Ave Jamaica 35 NY AX 1-8390
 Top Industries Inc 8907 Wilshire Blvd Beverly Hills Calif OL 2-5244
 Torit Manufacturing Co 292 Walnut St St Paul 2 Minn CA 2-4419
 Torq Time Controls Inc 1 Grove St Mt Vernon NY MO 4-3542
 Torngren Co C W 236 Pearl St Somerville 45 Mass MO 6-3250
 Torrocoil Co 2615 Bristol Rd Columbus 21 Ohio HU 6-4067
 Torrel Inc 5512 E 110 St Kansas City 34 Mo SO 3-5314
 Torq Engineered Products Inc 32 W Monroe Bedford Ohio BE 2-4100
 Torrington Co 59 Field St Torrington Conn HU 2-4441
 Torsion Balance Co 35 Monhegan St Clifton NJ GR 3-6900
 Towaco Electronics Inc 1090 Morris Ave Union NJ EL 4-5650
 Touch-Plate Mfg Corp P O Box 1970 Long Beach 1 Calif NE 6-8171
 Towaco Electronics Pine Brook Rd Towaco NJ DE 4-4443
 Tower Builders Co Box 356 Angola Ind 824
 Tower Construction Co 2700 Hawley Dr Sioux City 2 Iowa 5-7653
 Towers Corp P O Box 345 Cleveland 27 Ohio VU 3-9799
 Townsend Co Box 237 New Brighton Pa
 Townsend Co Cherry River Ind 1224 E Delhi Rd Santa Ana Calif KI 5-5511
 Townsend Mfg Co H P Brook St W Hartford 10 Conn AD 3-2611
 Tracerlab Inc 1601 Tranelo Rd Waltham 54 Mass TW 4-6800
 Trad Electronics Corp 1001 1 Ave Asbury Park NJ PR 6-7445
 Trane Co Cameron & 2 St La Crosse Wisc 2-8000
 Trans-A Electronics Co 467 S 5 Ave Mt Vernon NY 4-6261
 Transco Products Inc 12210 Nebraska Ave Los Angeles 25 Calif BR 2-5687
 Transdyme Corp 7337 Grand Ave Maspeth 78 NY
 Transelectric Mfg Co Houswell Rd Oxford Pa B N 265
 Trans Electronics Inc 7349 Canoga Am Canoga Park Calif DI 6-1757
 Transfilm Inc 35 W 45 St New York 36 NY JU 2-1400
 Transformer Eng'g 285 N Halstead Pasadena Calif NY 1-6906
 Transformer Metal Prods Corp 35 York St Brooklyn 1 NY MA 4-6550
 Transformer Technicians Inc 2608 N Cicero Ave Chicago 39 Ill NA 2-8140
 Transformers Inc 200 Stage Rd Vestal NY 8-3311
 Transcoil Corp Worcester Pa JU 4-2421
 Transistor Components Co 301 Oakwood Ave E Aurora NY CY 5236
 Transistor Devices Inc 730 Blvd Kenilworth NJ CH 1-0064
 Transistor Electronics Co 3357 Republic Ave Minneapolis 26 Minn WE 9-6754
 Transistor Electronics Inc West Rd Bennington VT 2059
 Transiron Electronic Corp 168 Albion St Wakefield Mass CR 9-4500
 Transiron Inc 186 Granite St Manchester NH NA 3-5896
 Transline Electronic Communication Co 95 Summit St Newark 3 NJ MI 2-4323
 Trans-Sil Corp 55 Honeck St Englewood NJ LO 7-0395
 Trans-Lux Corp 625 Madison Ave New York 22 NY PL 1-3110
 Transradio Inc 808 16 St Bakersfield Calif FA 7-5701
 Transradio Ltd 138A Cromwell Rd London S W 7 England
 Trans-Tel Corp 910 N Orange Dr Los Angeles 38 Calif
 Transval Eng'g Corp 10401 W Jefferson Blvd Culver City Calif VE 9-2301
 Transvision Inc 460 North Ave New Rochelle NY NE 6-6000
 Trav-Ler Radio Corp 571 W Jackson Blvd Chicago 6 Ill
 Trenton Transformer Corp P O Box 568 El Trenton NJ OW 5-3451
 Treco Inc 3824 Terrace St Philadelphia 28 Pa IV 3-3383
 Triad Portable Case Corp 2541 Boston Rd Bronx 69 NY TU 2-9609
 Triad Transformer Corp 4055 Redwood Ave Venice Calif TE 0-5381
 Trico Fuse Mfg Co 2948 N S St Milwaukee 12 Wisc CO 3-3410
 Tricon Mfg Co 8012 Wallace St Chicago 20 Ill AB 4-0600
 Tricraft Products Corp 1535 N Ashland Ave Chicago 22 Ill WE 5-5383
 Tri-Dex Electronics P O Box 1207 Lindsay Calif
 Tri-Ex Tower Corp 127 E Inyo St Tulare Calif 6-3411
 Tri-Kris Co Walnut & Hatfield Sts Lansdale Pa UL 5-5183
 Trilisch Inc John D P O Box 14201 Houston 21 Texas RE 4-2545
 Trimm Inc 400 W Lake St Libertyville Ill LI 2-3700
 Trimount Instrument Co 3119 W Lake St Chicago 12 Ill NE 2-3747
 Trimount Plastic Co 71 Dudley St Arlington 74 Mass MI 3-3600
 Trio Labs Inc 4025 Merriek Rd Seaford NY SU 5-5030
 Trio Mfg Co Griggsville Ill 22
 Trion Inc 1000 Island Ave McKees Rocks Pa FE 1-3500
 Triplett & Barton 831 N Lake St Burbank Calif VI 9-1291
 Triplett Electrical Instrument Co Harmon Rd Bluffton Ohio 323-W
 Tri-T Electronics Co Box 5352 Pasadena Calif AT 6-3689

ALPHABETICAL LISTING OF MANUFACTURERS with LOCALIZER INDEX

Tri-Point Plastics Inc Tri-Point Mfg Inc 175 I U
Willems Rd Albertson LI NY RD 3-5800
Tri-R Instruments 24-15 44 Rd Long Island City 1
NY ST 6-1381
Triton Mfg Co 4000 Towne St E Haddam Conn TR
3-8643
Tri-Tronics Co 2607 Et Charles Rd Bellwood Ill
Tronex Inc Wheaton Ave Millvale NJ TA 5-1750
Tronic Coil Winding Co Inc 58 Wesley St Waterbury
Conn PL 6-4668
Trop-Arctic Inc 637 S Mulberry St Muncie Ind AT
2-4582
Trottel Electronics Inc 412 Smith St Rochester 6 NY
HA 6-0150
Tru-Connector Corp 416 Union St Lynn Mass LY
8-9379
Tru-Lock Fasteners Inc Woodbury Conn CO 3-2318
Trump Dr Walter N 516 S Vermont Columbus Kan
429-R
Tru-Ohm Products Div Model Eng'g & Mfg Co 2800
N Milwaukee Ave Chicago 18 Ill EV 4-2646
Trutone Electronics Inc 6912 Santa Monica Blvd Los
Angeles 38 Calif HO 4-8118
T T Electronics Inc P O Box 180 Culver City Calif
TE 0-3213
Tub-Lok Mfg Co 4049 Transport Palo Alto Calif
YO 8-2194
Tubular Rivet & Stud Co Weston Ave Wollaston 70
Mass
Tullamore Electronics Lab 6055 S Ashland Ave Chi-
cago 36 Ill RE 7-6797
Tung-Sol Electric Inc 95 E Ave Newark 4 NJ HU
2-4200
Tur-bo Jet Products Inc 424 S San Gabriel Blvd
San Gabriel Calif CU 3-5191
Turner Brass Works 821 Park Ave Sycamore Ill 4545
Turner Co 909 17 St N E Cedar Rapids Iowa EN
3-8144
Tuthill Pump Co 939 E 95 St Chicago 19 Ill RE
4-7420
Tuttle & Kiff Inc 1823 N Monitor Ave Chicago 39
Ill ME 7-2828
TV Development Corp 187-61 Hollis Ave Jamaica 23
NY OL 7-9337
TV Hardware Mfg Co Div Textron Inc 400 S Wyman
St Rockford Ill 2-6695
TV Specialty Co 350 W 31 St New York 1 NY
LD 4-2334
TV Utilities Corp 112-33 Colonial Ave Corona GR NY
TW 8-1000
UAC Electronics Div Universal Transistor Prod Corp
50 Bond St Westbury LI NY
U B S Chemical Corp 491 Main St Cambridge 42
Mass UN 4-7300
Ucinco Co Div United-Carr Fastener Corp 459 Water-
town St Newtonville 60 Mass LA 7-8400
Uhrer Cine Machine Co 15762 Wyoming Ave Detroit
38 Mich UN 1-4663
Ulmet Co George 413 Market St Newark 5 NJ MA
2-4876
Ultrastray Eng'g Labs P O Box 3308 Albuquerque
New Mex 6-9886
Ultra Electroforming & Mfg Co 110 Cedar Ave Pitman
15 NJ LU 9-7666
Ultra Hi-Fi Co 709 Sip St Union City NJ UN 5-9200
Ultrasonic Eng'g Co 1613 S 3 Ave Maywood Ill
FI 4-8814
Ultra-Violet Products Inc 5114 Walnut Grove Ave
San Gabriel Calif CU 3-3193
Ultronic Inc 116 S Bayshore Blvd San Mateo Calif
DI 3-4700
U M & F Mfg Corp 10929 Vanowen St N Hollywood
Calif ST 7-5526
U M & F Inc P O Box 14216 Dallas 34 Texas FL
7-3937
Underwood Corp Electronic Component Div 35-10 36
Ave Long Island City 6 NY EX 2-3400
Ungar Electric Tools Inc 4201 Redwood Ave Los
Angeles 66 Calif EX 8-5718
Uniform Tubes Inc Level Rd Colledgeville 2 Pa HU
9-7276
Union Corp Sherwood Lane Caldwell NJ CA 6-2761
Unionmax Switch Div W L Maxson Corp Ives Rd Wall-
ingford Conn CO 9-8701
Union Carbide and Carbon Corp Silicones Div 30 E
42 St New York 17 NY MU 8000
Union Carbide Nuclear Co Div Union Carbide & Car-
bon 30 E 42 St New York 17 NY MU 7-8000
Union Electric Products Co 24 Edison Pl Newark 2
NJ MA 3-5489
Union Electronics & Machine Corp 71 Broadway Wake-
field Mass CR 6-5000
Union Plastics Corp Wire & Cable Div 1627 Paterson
Plank Rd Secaucus NJ UN 4-1313
Union Switch & Signal Div 1789 1807 Broadway Ave
Swissvale P O Pittsburgh 8 Penna CH 2-5000
Union Thermoelectric Corp 2001 Greenleaf St Evans-
ton Ill DA 8-8550
United Aircraft Products Inc 1116 Bolander Ave Day-
ton 8 Ohio MI 3841
United Audio Products Div United Optical Mfg 202
E 19 St New York 3 NY GR 7-4372
United Carbon Products Co P O Box 269 Bay City
Mich TW 3-4575
United-Carr Fastener Corp Cambridge 42 Mass
United Control Corp 4540 Union Bay Pl Seattle 5
Wash PL-9200
United Electric Controls Co 85 School St Watertown
72 Mass WA 4-2552
United Electrodynamic 1200 S Marengo Ave Pasa-
dena Calif SY 9-7161
United Electronic Mfg Corp 529 39 St Union City
NJ UN 5-4452
United Electronics Co 42 Spring St Newark 4 NJ
HU 2-0576

United Fabricators & Electronics Inc Myrtle & Water
St Stillwater Minn ME 9-1561
United Mfg Co Div W L Maxson Corp 41 Haig St
Hamden 14 Conn CH 8-4491
United Mineral & Chemical Corp 16 Hudson St New
York 13 NY BE 3-8870
United Research Lab 68J Fifth Ave New York 22 NY
PL 1-4003
United Screw & Bolt Corp 2513 W Cullerton St
Chicago 8 Ill BI 7-6464
United Shoe Machinery Corp 140 Federal St Boston 7
Mass LI 2-9160
United Transformer Corp Pacific Div 4008 W Jefferson
Blvd Los Angeles 16 Calif RE 1-6313
United Transformer Corp 150 Varick St New York 13
NY AL 5-3500
United Wire & Supply Corp 1497 Elmwood Ave
Providence 7 R 1 ST 1-3000
United World Films Inc 1445 Park Ave New York
29 NY TR 6-5200
Unit Process Assemblies Inc 61 E 4 St New York 3
NY SP 7-1398
Universal Atomics Corp 50 Bond St Westbury LI NY
PL 8-1520
Universal Circuit Controls Corp 3610 Oakton St
Shokie Ill OR 5-2620
Universal Clay Products Co 1528 E 1 St Sandusky
Ohio 4631
Universal Condenser Co 3435 N Kimball Ave Chicago
18 Ill CO 7-3933
Universal Drafting Machine Corp 7960 Lorain Ave
Cleveland 2 Ohio OL 1-4747
Universal Electric Co 300 E Main St Owosso Mich
OL 1-4747
Universal Electronics Co 1720 22 St Santa Monica
Calif EX 3-7707
Universal Industrial Equipment Corp 1625 Paterson
Plank Rd Secaucus NJ UN 7-8773
Universal Mfg Co 410 Hillside Ave Hillside NJ MU
8-1700
Universal Microphone Co Box 55 Inglewood Calif EX
8-6898
Universal Motor Co 1552 Harrison St Oshkosh Wis
BL 6020
Universal Products Eng'g Co 4100 Taylor Ave Racine
Wisc ME 3-0010
Universal Scientific Co Ins 1102 Shelby St Vincennes
Ind 129
Universal Transistor Products Corp 36 Sylvester St
Westbury LI NY ED 3-3304
Universal X-Ray Products Inc 1140 N Western Ave
Chicago 22 Ill AR 6-4487
Universal Winding Co P O Box 1605 Providence 1
RI WI 1-5200
University Loudspeakers Inc 80 S Kensico Ave White
Plains NY WH 6-7700
Univox Corp 102 Warren St New York 7 NY WO
2-5630
Univox Inc 2 Marine St Farmingdale NY CH 9-8180
U S Components Inc 454 E 148 St New York 55 NY
CV 2-6525
U S Controls Inc 161 Grand St New York 13 NY
CA 6-9021
U S Dynamics Corp 1250 Columbus Ave Boston 20
Mass
U S Electrical Motors Inc 200 E Slauson Ave Los
Angeles 54 Calif AD 3-3131
U S Electronics Corp 278 Warren St Lyndhurst NJ
GE 8-2400
U S Electronics Devel Corp 1323 Air Way Glendale 1
Calif CH 5-1884
U S Gauge Div American Machine & Metals Sellers-
ville Pa AL 7-6531
U S Gear Corp 81 Bay State Rd Wakefield Mass
CR 6-4900
U S Graphite Co Div Wickes Corp 1621 Holland Ave
Saginaw Mich PL 5-0441
U S Instrument Corp P O Box 1191 Charlottesville
Va 3-5153
U S Plastic Molding Corp Carlton St Wallingford
Conn CO 9-4426
U S Plastic Rope Inc 2581 Spring St Redwood City
Calif EM 8-1461
U S Plywood Corp 55 W 44 St New York 36 NY MO
2-1900
U S Radium Corp Morristown NJ JE 9-4000
U S Relay Co 1744 Alhambra St Los Angeles 31 Calif
CA 2-9146
U S Rubber Co 1230 6 Ave New York 20 NY CI
7-5000
U S Semiconductor Products 3536 W Osborn Rd P O
Box 11125 Phoenix Ariz AP 8-5591
U S Steel Corp 525 William Penn Pl Pittsburgh 30
Pa EX 1-2345
U S Stoneware Co Alite Div East Ave Tallmadge Ohio
ME 3-3224
U S Taximeter Corp 516 W 54 St New York 19 NY
CO 5-4651
U S Testing Co 1415 Park Ave Hoboken NJ SW
2-2400
U S Time Corp Waterbury Conn PL 8-2444
U S Wire Cable Co Progress & Monroe Sts Union NJ
MU 8-1100
Utah Radio Products Corp 1124 E Franklin St Hunt-
ington Ind 3100
Utica Drop Forge & Tool Div Kelsey-Hayes Co 2415
Whitesboro St Utica 4 NY 5-6411
Utilities Service Co 1 Pine St Allentown Pa ME
4-9541
Utility Brass & Copper Corp 255 Conover St Brook-
lyn 31 NY UL 8-9400
Utility Metal Products Co 117 Elliott St Beverly
Mass WA 2-0581
Utrad Corp 305 N Briant St Huntington Ind 4088
Vacaco Corp 1905 Summit Ave Union City NJ UN
7-6699

Vaco Products Co 317 E Ontario St Chicago 11 Ill
WH 4-2340
Vacudent Mfg Co 975 E 5 St S Salt Lake City 2
Utah EL 9-5561
Vaculloy Corp W Kemrow Ave Wooster Ohio
Vacuum-Electronic Eng'g Co 800 Denton Ave New
Hyde Park LI NY
Vacuum Metals Corp Div Crucible Steel Co P O Box
9771 Syracuse 1 NY 8-2571
Vacuum Specialties Co 34 Linden St Summerville Mass
MO 6-5450
Vacuum Tube Products Co 2020 Short St Oceanside
Calif SA 2-6567
Valandy Electronics Corp 61-35 166 St Flushing 68
NY IN 3-6919
Valtronics Co 13214 Crenshaw Blvd Gardena
Calif DA 3-6160
Valco Mfg Co 4700 W Walton St Chicago 51 Ill
MA 6-7574
Vallores Jewel Co Lancaster Pa EX 2-3978
Valter Electronic Components Co 5800 Marilyn Ave
Culver City Calif EX 8-7227
Valzey Crystal Corp 1244 Highland St Holliston
Mass GA 9-4851
Valverde Labs 252 Lafayette St New York 12 NY
CA 6-9704
Van Esp Lab R 2 2 Plainfield NJ
Vanguard Electronics Co 3384 Motor Ave Los Angeles
34 Calif TE 0-7344
Vanity Fair Electronics 50 S 4 St Brooklyn 11 NY
Van Nuys Electronics Co 176 Waltham St Watertown 72 Mass
WA 4-4394
Van Norman Industries Inc Electronics Div 185
Granite St Manchester NH NA 5-9701
Vanton Pump & Equipment Corp 201 Sweetland Ave
Hillsdale 5 NJ
Vapor Heating Corp 80 E Jackson Blvd Chicago 4 Ill
WR 7-5160
Vapor Recovery Systems Co 2820 N Alameda St
Compton Calif ME 6-1211
Varflex Corp 511 W Court St Rome NY 7200
Varian Associates 611 Hansen Way Palo Alto Calif
DA 5-5631
Vari Equip Co P O Box 46 W Cornwall Conn OR
2-6143
Vari-L Co 432 Fairfield Ave Stamford Conn FI 8-0091
Varo Mfg Co 2201 Walnut St Garland Texas 3-1285
Vector Electronic Co 1100 Flower St Glendale 1
Calif CH 5-1076
Vectrol Eng'g Inc P O Box 1089 Stamford Conn DA
4-4602
Vectron Inc 1611 Trapelo Road Waltham 54 Mass
TW 3-8700
Veeco Vacuum Corp 86 Denton Ave New Hyde Park
NY PI 6-1161
Veeder Root Inc 70 Sargeant St Hartford 2 Conn
JA 7-7201
Vemaline Products Co P O Box 222 Hawthorne NJ
WA 4-6888
Venner Electronics Ltd Kingston By-Road New Malden
Surrey England MA 2442
Verd-A-Ray Corp 615 Front St Toledo 5 Ohio CH
3-1494
Verrill Moe Electronics Jefferson Wisc
Versailles Products Div Metals & Controls Corp 300
W Main Versailles Ky 1096
Vesto Co 20 Clay Sts N Kansas City 16 Mo BA
1-3322
Vibrapower Co James 4050 N Rockwell St Chicago
18 Ill CO 7-6333
Vibrascope Co P O Box 97 Glenford NY DL 7-2173
Vibra Seal Corp 2832 E Grand Blvd Detroit 11 Mich
TR 1-5130
Vibration Research Labs 97 Lake Ave Tuckahoe NY
WO 1-2440
Victers Inc Electric Products Div 1887 Locust St St
Louis 3 Mo CE 1-5830
Vicon Inc 1353 Mesita Rd Colorado Springs Colo
ME 5-5668
Victory Adding Machine Co 3900 N Rockwell St Chi-
cago 18 Ill KE 9-8210
Victor Animalograph Corp Plainville Conn SH 7-1663
Victoreen Instrument Co 5806 Hough Ave Cleveland 3
Ohio EN 1-6200
Victor Electric Wire & Cable Corp 618 Main St W
Warwick RI VA 1-1700
Victor RF & Microwave Co 36 W Water St Wake-
field Mass CR 9-4472
Victor Insulators Div I-T-E Circuit Breaker Co Maple
Ave Victor NY VI-2421
Victory Eng'g Corp 117 Springfield Rd Union NJ MU
8-7150
Victory Mfg Corp 1722 W Arcade Pl Chicago 12 Ill
PA 6-7584
Vidare Electronics Mfg Corp 48 Church St Baldwin
NJ BA 3-8544
Video Accessory Mfg Co P O Box 223 Tulsa 1 Okla
GI 7-3346
Video Industries Co 242 Madison Ave Port Chester
NY WE 9-4919
Video Electronic Corp 902 E Michigan St Indianapo-
lis Ind ME 6-5461
Viking Industries Inc 21343 Roscoe Blvd Canoga Park
Calif DI 7-8500
Viking of Minn 900 Aldrich Ave S Minneapolis 20
Minn TU 1-2636
Viking Pump Co 4 Van Tassel Sts Cedar Falls Iowa
CO 6-1741
Virginia Electronics Co River Rd & B & O R R
Washington 16 DC OL 4-6680
Vis-U-All Products Co 303 Fuller Ave N E Grand
Rapids 3 Mich WA 5-8541
Vis-U-All Corp 3325 W Bryn Mawr Ave Chicago 45
Ill CO 7-5500
Vitramon Inc Box 544 Bridgeport 1 Conn AM 8-1656

ALPHABETICAL LISTING OF MANUFACTURERS with LOCALIZER INDEX

- Vitro Corp of America 261 Madison Ave New York 16 NY MU 2-5700
 Vitrosol Corp 709 E 106 St Indianapolis 20 Ind VI 6-2511
 V-M Corp 4 & Park Sts Benton Harbor Mich WA 5-8841
 Vocaline Co of America Old Saybrook Conn EV 8-3414
 Vocalite Screen Corp 19 Debevoise Ave Roosevelt NY FR 9-2800
 Volcar Corp 7300 Huron River Dr Dexter Mich HA 6-5041
 Volkers & Schaffer Mfg Corp 2315 2 Ave Carman Schenectady NY EX 2-5217
 Volkert Stampings Inc 222-34 96 Ave Queens Village 29 NY HO 4-8400
 Volk Radiochemical Co 5412 N Clark St Chicago 40 III LU 1-2227
 Volta Mfg Co 2154 N Halsted St Chicago 14 III LU 5-7755
 Volltron Products 1129 S Fair Oaks Ave Pasadena Calif
 Vollube Corp Lincoln Hwy Menlo Park NJ LI 9-0316
 Vorac Co 147 Meadow Rd Rutherford NJ GE 8-0934
 Voron & Co George 835 N 19 St Philadelphia 30 Pa PO 6-5300
 Vought Co P O Box 1350 Beverly Hills Calif CR 6-2621
 Vulcan Electric Co 88 Holten St Danvers Mass SP 4-1730
 Waage Electric Inc 720 Colfax Ave Kenilworth NJ CH 5-9363
 Wabash Metal Products Co 1569 Morris St Wabash Ind 583
 WaLine Inc 35 S St Clair St Dayton 2 Ohio FU 5161
 Waco Inc 2032 Broadway Santa Monica Calif EX 3-7274
 Wade Electric Products Co Bne 271 Sturgis Mich 1400
 Wagner Co H A 14707 Keswick St Van Nuys Calif ST 6-1090
 Walters Kohrner Inc 47-16 Austel Pl Long Island City 1 NY EX 2-3100
 Waldom Electronics Inc 4625 W 53 St Chicago 32 III LU 5-1212
 Waldorf Instrument Co Div F C Huyck & Sons Park Ave Huntington Station NY HA 7-7500
 Wales-Strippel Co Alton NY AK-9441
 Walker Co George 118 Amsterdam Ave Passaic NJ Walkirt Co 141 W Hazel St Inglewood 3 Calif DR 8-4814
 Wall Mfg Co P Grove City Pa 910
 Wallingford Steel Co Valley St Wallingford Conn CO 9-3361
 Wallon Associates Ltd 963 Frelinghuysen Ave Newark 12 NJ TA 2-6000
 Walisco Electronics Mfg Co 100 W Green St Rockford 11 2-6695
 Waltham Horological Corp 395 Lynnway Lynn Mass LY 8-4750
 Waltham Screw Co 77 Rumford Ave Waltham 54 Mass TW 3-5830
 Waltham Watch Co 221 Crescent St Waltham 54 Mass TW 3-4000
 Walton Tool & Die Co 2707 Empire Ave Burbank Calif VI 9-1914
 Walworth Co 750 3rd Ave New York 17 NY MU 2-7060
 Wang Labs Inc 37 Hurley St Cambridge 41 Mass UN 4-8380
 Wampler Inc 27-10 Astoria Blvd Long Island City 2 NY RA 8-8831
 Ward Leonard Electric Co Mt Vernon NY MO 4-1000
 Ward Products Corp 1148 Euclid Ave Cleveland 15 Ohio MA 1-4610
 Warner Electric Brake & Clutch Co Industrial Div Detroit Mich DU 9-2211
 Warner & Swasey Corp 34 W 33 St New York 1 NY LA 4-1536
 Warren Corp 2901 Brighton Rd Pittsburgh 12 Pa PO 6-7757
 Warren Corp J C 21 Hanse Ave Freeport NY FR 8-4441
 Warren Mfg Co Newtown Rd Littleton Mass HU 6-3511
 Warren Plastics Corp Warren Pa 3325
 Warren Wire Co Pownal Vt VA 3-7321
 Warrick Co Charles F 1964 W 11 Mile Rd Berkeley Mich JO 4-6667
 Warsaw Coil Co Segal St Warsaw Ind 490
 Warwick Mfg Corp 7300 N Lehigh Ave Chicago 31 III SP 7-6400
 Wassco Electric Products Corp 204 S Larkin Ave Joliet III 3-9366
 Waterbury Cos Inc 835 S Main St P O Box 1032 Waterbury Conn PL 6-5551
 Waterbury Products Metal Co 300 Chase Ave Waterbury 14 Conn PL 4-6189
 Waterman Products Co 2445 Emerald St Philadelphia 25 Pa GA 6-8500
 Waters Mfg Inc Boston Post Rd Wayland Mass TW 3-9020
 Wallow Electric Mfg Co 1376 Ferguson Ave St Louis 14 Mo PA 1-7887
 Watson Mfg Co 3700 Taylor St Jamestown NY 7-191
 Waugh Eng'g Co 7842 Burnet Ave Van Nuys Calif ST 3-1055
 Waveforms Inc 333 6 Ave New York 14 NY WA 9-2795
 Waveguide Inc 14837 Onard St Van Nuys Calif ST 6-0771
 Waveline Inc Passaic Ave Caldwell NJ CA 6-5785
 Wase Particle Corp P O Box 252 Menlo Park Calif EM 8-1579
 Wayne-Kerr Inst P O Box 801 Phila Pa GA 6-6750
 Wayne Productions Les 3407 E Bayley Wichita 17 Kan MU 6-9093
 Wax Corp of America 21-29 Dunham Pl Brooklyn 11 NY EV 8-4400
 Weather Industries Div Advance Industries GG E Gloucester Pike Barrington NJ LI 7-0212
 Webcor Inc 5626 Birmingham Ave Chicago 39 III
 Webster Electric Co 1900 Clark St Racine Wisc ME 3-3511
 Webster Labs Stanley 5225 W St Charles Rd Berkeley III LI 4-7620
 Webster Mfg Co 242 Shoreline Blvd Mill Valley Calif DU 8-6775
 Wechsler Co 5701 Northwest Hwy Chicago 30 III RO 3-6688
 Wedglock Corp 5446 Satsuma Ave N Hollywood Calif ST 7-0511
 Weil & Co J H 1332 Cherry St Philadelphia 7 Pa Weinschel Eng'g 10503 Metropolitan Ave Kensington Md LO 4-0122
 Weisler Thermometer Corp 195 E Merrick Rd Freeport LI NY MA 3-0100
 Welch Mfg Co W M 1515 Sedgwick St Chicago 10 III MI 2-2000
 Welco Mfg Co 225 S St Burlington Iowa PL 2-2787
 Weldex Inc 18425 Weaver Detroit 28 Mich VE 8-0940
 Weldmatic Div Unitek Corp 380 N Halstead Ave Pasadena Calif EL 5-7229
 Weller Electric Corp 601 Stone's Crossing Rd Easton Pa
 Wells-Gardner & Co 2701 N Kildare Ave Chicago 39 III AL 2-8220
 Welsh Co Inc Wm H 2241 Indiana Ave Chicago 16 III CA 5-5452
 Weltronix Co 19500 W 8 Mile Rd Detroit 19 Mich KE 2-2800
 Welwyn Electrical Labs Bedlington Northumberland England 2181
 Welwyn Int'l Inc 3355 Edgecliff Terrace Cleveland 11 Ohio WI 1-1333
 Wenco Mfg Co 1133 W Hubbard Chicago 22 III Wens Products Inc 5806 Northwest Highway Chicago 31 III RO 3-6060
 Wenzel Projector Co 2505 S State St Chicago 16 III CA 5-6285
 Werner Co R D 295 S Ave New York 16 NY MU 6-2595
 Werner Co Inc R D Greenville Pa
 Wesbar Stamping Corp West Bend Wisc FE 4-2381
 Wesche Electric Co B A 9027 Shell Rd Cincinnati Ohio TW 1-6600
 Wesco Electrical & Mfg Co 27 Olive St Greenfield Mass
 Westberg Mfg Co 144 S Coombs St Napa Calif BA 6-5218
 Westberg Electronics Inc 300 Shames Dr Westbury NY ED 4-8300
 West Coast Electrical Mfg Corp 233 W 116 Pl Los Angeles 61 Calif P 5-1138
 West Coast Electronics Co 9261 W 3 St Beverly Hills Calif BR 2-0383
 West Coast Research Corp 2371 1/2 Westwood Blvd Los Angeles 64 Calif BR 2-2048
 Western Coil & Electrical Co 215 State St Racine Wisc ME 2-4741
 Western Coil Products Co 969 Commercial St Palo Alto Calif DA 5-2718
 Western Electric Co 195 Broadway New York NY WO 4-2100
 Western Electro Acoustic Lab Inc 11789 San Vicente Blvd Los Angeles 49 Calif GR 7-9441
 Western Electronic Co 717 Dexter Ave Seattle 9 Wash SE-3200
 Western Felt Work 4029 Ogden Ave Chicago III CR 7-8000
 Western Gear Corp Electro Products Div 132 W Colorado St Pasadena 1 Calif NY 1-6604
 Western Gold & Plating Co 525 Harbor Blvd Belmont Calif LY 3-3121
 Western Instrument Co 826 N Victory Blvd Burbank Calif VI 9-3013
 Western Insulated Wire Co 2425 E 30 St Los Angeles 58 Calif LU 7-7103
 Western Int'l Co 45 Vesey St New York 7 NY DI 9-2277
 Western Radiation Lab 1107 W 24 St Los Angeles 7 Calif RI 7-8355
 Westfield Metal Products Co 1035 Lower Union St Westfield Mass LO 2-3614
 Westgate Lab Inc 506 S High St Yellow Springs Ohio RO 7-7375
 Westinghouse Electric Div Air Arm Div P O Box 746 Friendship Int'l A P Baltimore Md SO 1-1000
 Westinghouse Electric Corp Industrial Electronic Dept 2519 Wilkens Ave Baltimore Md
 Westinghouse Electric Corp P O Box 526 Bath NY PR 6-3311
 Westinghouse Electric Corp Box 284 Elmira NY 9-3611
 Westinghouse Electric Corp P O Box 668 Pittsburgh 30 Pa EX 1-2800
 Westinghouse Electric Corp Semiconductor Dept Youngwood Pa
 Westinghouse Electric Corp Micarta Div Hampton S C
 West Instrument Corp 4363 W Montrose Ave Chicago 41 III PA 5-1007
 Westlake Plastics Co 133 W Lenni Rd Lenni Mills Pa ME 6-5170
 Westline Products Div Western Lithograph Co 600 E 2 St Los Angeles 54 Calif TR-2641
 West Michigan Sound Co 1932 Peck St Muskegon Mich 2-5910
 Weston Electrical Instrument Corp Sub Daystrom Inc 614 Frelinghuysen Ave Newark 12 NJ BI 3-4700
- Westrex Corp 111 8 Ave New York 11 NY CH 3-2300
 Westronics Inc 3605 McCart Ft Worth Texas WA 3-2986
 Westronix Corp Texas Crystal Div 8538 W Grand Ave Rives Grove III GL 3-3555
 West Virginia Pulp & Paper Co 230 Park Ave New York 17 NY MU 6-8400
 Weymouth Instrument Co 1440 Commercial St E Weymouth 89 Mass ED 5-0626
 Wharfedale Div British Industries Corp 80 Shore Rd Port Washington NY PD 7-7700
 Wheaton Co T C Millville NJ TA 5-1400
 Wheeler Instrument Corp 400 S Byrkit Nishawaka Ind BL 5-2141
 Wheeler Insulated Wire Co 150 E Aurora St Waterbury 20 Conn PL 4-5191
 Wheeler Labs Inc 122 Cutter Mill Rd Great Neck NY HU 2-7876
 Wheelock Signals Inc Long Branch NJ
 Whitaker Cable Corp 1381 Burlington St N Kansas City 16 Mo GR 1-4640
 White Aircraft Corp Palmer Mass PA 900
 White Dental Mfg Co S S Industrial Div 10 E 40 St New York 16 NY MU 3-3015
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 Whiteford Lab 258 Broad St Lynn 9 Mass LY 8-9119
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 White & Sons Wilfrid O 178 Atlantic Ave Boston 10 Mass Richmond 2-3047
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 Whitney Metal Tool Co 110 Forbes St Rockford III 2-5571
 Whittco Inc 9330 Byron St Schiller Park III GL 6-5297
 Whittington Pumps & Eng'g Corp 1126 Prospect St Indianapolis 3 Ind ME 2-7352
 Whianco Eng'g Co 255 Halstead St Pasadena Calif SY 3-9164
 Wickes Eng'g & Construction Co 12 St & Ferry Ave Camden 4 NJ WO 4-4912
 Wide Range Recording Corp 527 N Grand Blvd St Louis 3 Mo OL 2-7980
 Wiedemann Machine Co 4275 Wissahickon Ave Philadelphia 32 Pa
 Widney-Dorlec Div British Industries Corp 80 Shore Rd Port Washington NY PD 7-7700
 Wiegand Co Erwin L 7500 Thomas Blvd Pittsburgh 8 Pa CH 2-6400
 Widener Mfg Co 120 E Hawthorne Ave Valley Stream NY
 Wiggins Oil Tool Co E B 3424 E Olympic Blvd Los Angeles 23 Calif AN 9-0181
 Wilco Corp 546 Drovers St Indianapolis 21 Ind ME 7-3164
 Wilcoator Co 1001 Newark Ave Elizabeth NJ EL 4-7316
 Wilcox Electric Co 1400 Chestnut St Kansas City 27 Mo BE 1-0700
 Wilcox-Gay Corp Charlotte Mich
 Wilberg Bros Smelting & Refining Co 742 Market St San Francisco 2 Calif DO 2-3505
 Wilder Mfg Co Mechanic St & Erie R R Port Jervis NY 3-291
 Willard Pictures Inc 45 W 45 St New York 36 NY JU 2-0430
 Willard Storage Battery 246 E 131 St Cleveland 1 Ohio UL 1-2600
 Williams Brown & Earle Inc 904 Chestnut St Philadelphia 7 Pa WA 3-1800
 Williams & Co CK 640 W 13 St Easton Pa 3-6261
 Williamson Development Co 317 Main St W Concord Mass EM 9-9706
 Williams Recording Service Ash 2625 "D" St Lincoln 8 Nebr 2-3508
 Williams Ship-Radio Co 4366 Mentone St San Diego 7 Calif AC 3-3097
 Wilson Camera Co 1395 Lawrence Rd Hartstown Pa
 Wilmer Mfg Co 1110 Truman Rd Kansas City Mo BA 1-5585
 Wilmington Fibre Specialty Co New Castle Dela EA 8-7525
 Wilrite Products Inc 3835 W 150th St Cleveland 7 Ohio CL 2-1810
 Wilson & Co G C 1915 8 Ave Huntington 3 W Va 3-5149
 Wincharger Corp E 7 & Division St Sioux City 2 Iowa 2-1844
 Winchester Electronics Inc Willard Rd Norwalk Conn TE 8-8433
 Windsor Aircraft Corp of Florida P O Box 2397 Drane Field Labeland Fla MU 9-6911
 Windsor Co 999 N Main St Glen Ellyn III
 Wind Turbine Co E Market St & P R R W Chester Pa OW 6-3110
 Winegard Co 3000 Scotton Blvd Burlington Iowa PI 4-6595
 Winkler Labs 5225 N 20 St Phoenix Ariz AM 6-5952
 Winpower Mfg Co Newton Iowa 236
 Winslow Co 701 Lehigh Ave Union NJ MU 8-0020
 Winston Electronics Inc 4312 Main St Philadelphia 27 Pa IV 2-6599
 Winterburn Mfg Co 11 Whittemore St Putnam Conn WA 8-4121
 Winzeler Mfg & Tool Co 7355 W Wilson Ave Chicago 31 III UN 7-7971

ALPHABETICAL LISTING of MANUFACTURERS with LOCALIZER INDEX

Wirco Electronics Inc 9910 Rush St El Monte Calif
GI 3-1433
Wire Co of America Inc Santa Barbara A P Bldg 247
Santa Barbara Calif WO 7-3620
Wirecraft Products Inc 10 Lake St W Brookhels Mass
VO 7-3155
Wire Stripper Co 1721 Eastham Ave E Cleveland 12
Ohio GL 1-3035
Wirt Co Continental Carbon Div 5221 Greene St Phila-
delphia 44 Pa GE 8-9334
Wisconsin Porcelain Co 121 Lincoln St Sun Prairie
Wisc CA 7-2155
Wolfe Co F C Div Parker Appliance Co 10567 Jeff-
erson Blvd Culver City Calif TE 0-4618
Wolf Studios Inc Raphael G 5631 Hollywood Blvd
Hollywood 28 Calif HO 7-6126
Wollensak Optical Co 850 Hudson Ave Rochester 22
NY CO 6-1000
Wolverine Tube Div Calumet & Hesla Inc 17200
Southfield Rd Allen Park Mich DU 6-1000
Woodbury Glass Co 34 Burnside Ave E Hartford 8
Conn BU 9-9331
Wood Counter Lab 1525 E 53 St Chicago 15 Ill
FA 4-1114
Wood Steel Co Alan Conshohocken Pa CA 7-8900
Woodwelding Inc 355 N Newport Blvd Newport Beach
Calif LI 8-6123
Worcester Pressed Aluminum Corp 13 Hope Ave
Worcester 3 Mass PL 4-2627
Worcester Pressed Steel Co 100 Barber Ave Worcester
6 Mass PI 5-4361
Worcester Wire Works Div National-Standard Co 70
James St Worcester 3 Mass
Workman TV Inc 309 Queen Anne Rd Teaneck NJ
TE 6-2400
Worner Electronic Devices Rankin Ill RA 55

Wright Electronics Inc 2537 Grand Ave Kansas City
5 Mo BA 1-8626
Wright Electronics of Canada Ltd W Gary 628 Kent
St Whitby Ont Canada EM 6-6012
Wright Equipment Co 128 N Main St Milltown NJ
B-1284
Wright Metalcoaters Inc 255 West St S Hackensack
NJ HU 7-5136
Wright & Sons Co Wm E West Warren Mass HE
6-7732
Wright Steel & Wire Co G F 243 Stafford St Worces-
ter 3 Mass PL 4-6824
Wright Zimmerman Inc New Brighton St Paul 12
Minn ME 3-3131
WRL Electronics Inc 3415 W Broadway Council Bluffs
Iowa 2-0277
Wrought Washer Mfg Co 2275 S Bay St Milwaukee 7
Wisc SH 4-0771
Wurlitzer Corp 105 W Adams St Chicago 3 Ill AN
3-3373
Wybar Electronics Inc P O Box 388 Auburn NY 2-
6229
Wyco Metal Products 6918 Beck Ave N Hollywood
Calif ST 7-5579
Wyeth Eng'g Inc 9911 Walden Pkwy Chicago 43 Ill
NI 5-1447
Wyzenbeek & Staff Inc 223 N California Ave Chicago
12 Ill NE 2-3771
Xcelite Inc Bank St Orchard Park NY 10-4461
X-Ray Mfg Corp of America 1750 Plaza Ave New
Hyde Park NJ FL 2-7144
Yale & Towne Powdered Metal Prods Div 9335 W
Belmont Ave Franklin Park Ill TU 9-5424
Yardney Electric Corp 40 Leonard St New York 13
NY WO 6-3100
Yellow Springs Instrument Co P O Box 106 Yellow
Springs Ohio 7-2181
Yerzley & Co 744 Broad St Newark 2 NJ MI 2-1307

York Co Otto M 6 Central Ave W Orange NJ OR 7-
3000
Young Brothers Co 1831 Columbus Rd Cleveland 13
Ohio MA 1-2473
Young Springs & Wire Co Ganset Div 801 S Main
St Burbank Calif VI 9-2222
Zagora Gears Inc 1327 S Mint St Charlotte 3 NC ED
3711
Zell Products Corp 280 Main St Norwalk Conn VI 7-
2477
Zena Eng Co 6355 Kenmore Ave Los Angeles 6
Calif DU 7-7175
Zenith Electric Co 152 W Walton St Chicago 10 Ill
MI 2-3322
Zenith Optical Lab 1940 Great Neck Rd Copiaque
LI NY AM 4-4616
Zenith Plastics Co 1600 W 135 St Gardena Calif FA
1-2020
Zenith Radio Corp 6001 Dickens Ave Chicago 39 Ill
BE 7-7500
Zephyr Mfg Co Electronics Div 201 Hindry Ave Ingle-
wood 1 Calif
Zephyr Products Co 129 E 124th St New York 35
NY SA 2-1800
Zernickow Co 0 15 Park Row New York 38 NY BA
7-2264
Zero Mfg Co 1121 Chestnut Burbank Calif VI 9-2209
Zierick Mfg Corp Beechwood & Rockdale Ave New
Rochelle NY NE 6-8520
Zippertubing Co 752 S San Pedro St Los Angeles
14 Calif MI 0831
Zoomar Inc 55 Sam Cliff Ave Glen Cove NY OR 6-
1900
Zophar Mills Inc 112 26 St Brooklyn 32 NY SO B-
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Ohio WH 3-5700

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Electronic Engineering Positions With The U. S. Government

A nation-wide round-up of the jobs available for electronic engineers, electronic technicians and physicists with the U. S. government. Locations, starting pay and potential earnings are included.

For further information contact the Regional Office of the U. S. Civil Service Comm. indicated on the map.

FIRST REGION

Agency & Location	Electronics Engineers	Electronics Technicians	Physicists
MASSACHUSETTS:			
AF Cambridge Research Center, Bedford	GS-5/14	GS-5/11	GS-5/15
U.S. Naval Shpyd, Boston	GS-5/14	GS-7/9	GS-9
Smithsonian Astrophysical Observatory, Cambridge	***	***	GS-11/15
GM Research & Dev. Command, Natick	***	GS-7	GS-7/14
Supervisor of Shipbuilding, Quincy	GS-9/11	***	***
Springfield Armory, Springfield	GS-5/12	***	GS-5/15
Watertown Arsenal, Watertown	***	***	***
MAINE:			
Supervisor of Shipbuilding, Bath	GS-9/12	***	***
NEW HAMPSHIRE:			
U.S. Naval Shpyd, Portsmouth	GS-5/14	GS-7/9	GS-5/12
CONNECTICUT:			
Supervisor of Shipbuilding, Groton	GS-9/12	***	***
U.S. Naval Underwater Sound Lab., New London	GS-5/14	GS-7/9	GS-5/15
RHODE ISLAND:			
U.S. Naval Underwater Ord. Sta., Newport	GS-5/14	GS-7/9	GS-5/14
U.S. Naval Air Sta., Quonset Point	GS-9/12	***	GS-9

SECOND REGION

NEW JERSEY:			
Naval Air Sta., Lakehurst	GS-7/15	GS-5/9	GS-9/11
Picatinny Arsenal, Dover	GS-7/15	GS-5/9	GS-5/15
Raritan Arsenal, Metuchen	GS-7/15	***	***
Ft. Monmouth	GS-7/15	GS-5/11	GS-5/15
Naval Air Turbine Test Sta., Trenton	***	GS-7/9	GS-5/7
Naval Air Rocket Test Sta., Dover	***	GS-7/9	***
NEW YORK:			
Naval Shipyard, Bklyn.	GS-7/15	GS-5/9	GS-5/15
Naval Trg. Center, Ft. Washington	GS-7/15	GS-5/9	GS-9/13
Ft. Jay, Governors Island	GS-9/15	GS-7/11	***
Griffis AFB, Rome	GS-7/15	GS-5/11	GS-5/15
CAA, Jamaica	GS-7/15	GS-5/12	***
Watervliet Arsenal, Watervliet	***	***	GS-5/15

THIRD REGION

Agency & Location	Electronics Engineers	Electronics Technicians	Physicists
DELAWARE:			
Dover AFB, Dover	GS-5/12	***	***
New Castle Co., AFB, Wilmington	GS-5/12	***	***
MARYLAND:			
Aberdeen Prvg. Ground	GS-5/15	GS-5/11	GS-5/15
Army Chemical Center, Edgewood	GS-5/15	***	GS-5/12
FL Detrick, Frederick	GS-5/15	***	GS-5/15
Naval Eng. Experiment Sta., Annapolis	GS-5/13	***	GS-7/12
Ft. George Meade	GS-5/12	GS-5/11	***
Naval Air Sta., Patuxent River	GS-5/11	***	***
Naval Powder Factory, Indian Head	GS-5/15	***	GS-5/14
Air Research & Dev. Command, Baltimore	GS-5/15	***	GS-5/15
PENNSYLVANIA:			
Naval Air Development Center, Johnsville	GS-5/15	GS-5/9	GS-5/15
Frankford Arsenal, Phila.	GS-5/15	***	GS-5/15
U. S. Naval Shpyd., Phila.	GS-5/15	GS-7/11	GS-5/15
Army Signal Supply Agency, Phila.	GS-9/11	***	***
Air Materiel Area, Middletown	GS-5/13	***	***
Bureau of Mines, Pittsburgh	***	***	GS-5/15
Supervisory Insp. of Naval Materiel, Upper Darby	GS-5/12	***	***
Signal Depot, Tobyhanna	GS-5/12	GS-5/11	***

VIRGINIA:

NACA, Hampton	GS-5/14	GS-7/11	GS-11/15
Langley AFB, Hampton	GS-9/11	***	***
Naval Air Sta., Chincoteague	GS-7/11	GS-7/9	GS-11/12
Fifth Naval Dist., Norfolk	GS-7/11	GS-5/11	***
Naval Air Sta., Norfolk	GS-7/13	GS-9/11	***
U. S. Naval Shpyd., Portsmouth	GS-9/15	GS-7/11	GS-5
Supervisor of Shipbuilding, Newport News	GS-9/12	***	***

FIFTH REGION

ALABAMA:

Redstone Arsenal, Huntsville	GS-5/15	***	GS-5/14
Brookley AFB, Mobile	GS-5/14	***	***

UNITED STATES CIVIL SERVICE REGIONS



FIFTH REGION

Agency & Location	Electronics Engineers	Electronics Technicians	Physicists
FLORIDA:			
Eglin, AFB	GS-5/15	...	GS-5/14
Patrick, AFB	GS-5/15	...	GS-14
U. S. Naval Air Sta., Jacksonville ..	GS-5/13	...	...
U. S. Naval Sta., Key West	GS-5/13	...	...
U. S. Underwater Sound Ref. Lab., Orlando .....	...	...	GS-5/12
U. S. Mine Defense Lab., Panama City .....	...	...	GS-5/17
U. S. Naval Air Sta., Pensacola ..	GS-5/13	...	GS-5/12
International Airport, West Palm Beach	GS-5/12	...	...
GEORGIA:			
U. S. Naval Ordnance Plant, Macon ..	GS-5/13	...	...
Robins, AFB	GS-5/14	...	GS-5/12
MISSISSIPPI:			
U. S. Engineers, Vicksburg .....	...	...	GS-5/11
NORTH CAROLINA:			
Marine Corps Air Sta., Cherry Pt. ..	GS-5/12	...	...
Fort Bragg	GS-5/12	...	...
SOUTH CAROLINA:			
U. S. Naval Shpyd., Charleston	GS-5/14	GS-7/9	GS-5/11
Donaldson AFB, Greenville .....	...	...	GS-5/9
TENNESSEE:			
U. S. Engineers Dist., Nashville ..	GS-5/13	...	...

SIXTH REGION

OHIO:			
NACA, Cleveland	GS-5/18	...	GS-5/18
Air Development Center, Wright-Patterson AFB	GS-5/15	GS-5/11	GS-5/15
Gentile AFB, Dayton	GS-14	GS-5/10	GS-9/13
Air Materiel Command, Wright-Patterson AFB	GS-5/13	GS-5/12	GS-14
U. S. Engineers, Cinn.	GS-5/11	...	...
Robt. A. Taft Sanitary Eng. Center, Cinn. ....	...	...	GS-9/12
Air Technical Intelligence Center, Wright-Patterson AFB	GS-9/13	...	GS-14/15

SIXTH REGION

Agency & Location	Electronics Engineers	Electronics Technicians	Physicists
INDIANA:			
U. S. Naval Avionics Facility, Indianapolis	GS-5/12	GS-5/9	GS-5/12
CAA, Indianapolis	GS-5/16	...	...
Jefferson Proving Ground, Madison ..	GS-11	...	...
Naval Ammunition Depot, Crane	GS-9/11	...	...
KENTUCKY:			
Signal Depot, Lexington	GS-5/11	GS-5/11	GS-5/11
U. S. Engineers, Louisville	GS-12	...	...
Fort Knox .....	...	...	GS-5/16
U. S. Public Health Service, Lexington .....	...	...	GS-11
Naval Ordnance Plant, Louisville ..	...	...	GS-9

SEVENTH REGION

Agency & Location	Electronics Engineers	Electronics Technicians	Physicists
ILLINOIS:			
Hq. 5th Army, Chgo.	GS-5/13	GS-5/11	GS-5/14
Naval Ord. Plant, Forrest Park	GS-5/13	...	...
9th Naval Dist., Great Lakes	GS-5/13	GS-5/11	...
Electronics Supply Off., Great Lakes	GS-5/13	GS-5/11	...
U. S. Engineers, Wilmette .....	...	...	GS-5/11
Pt. Sheridan, Chgo.	GS-5/13	...	...
Signal Corps Supply Agency, Chgo. (M), Dept. Army, Chgo.	GS-5/13	...	GS-5/14
Rock Island Arsenal, Rock Island ..	...	...	GS-5/14
Signal Depot, Decatur	GS-5/13	GS-5/11	...
Bureau of Standards, Havanna	GS-5/13	GS-5/11	...
WISCONSIN:			
Forest Products Lab. Madison	GS-5/13	...	GS-5/14
MICHIGAN:			
Army Ballistics Missile Agency, Detroit	GS-5/13	...	GS-5/14
Detroit Arsenal, Centerline	GS-5/13	GS-5/11	GS-5/14
U. S. Engineers, Detroit .....	...	GS-5/11	...
Pt. Wayne, Detroit .....	...	GS-5/11	...
Fed. Civil Defense Adm., Battle Creek	GS-5/13	GS-5/11	GS-5/14

Explanation of Pay Grades

Because Federal white-collar salaries have been increased since the accompanying material was prepared, the following salary scale should be used to convert salaries mentioned. The entrance salaries given apply to most positions. However, the Civil Service Commission has authorized higher starting salaries for certain kinds of jobs because of the shortage of personnel in some fields. Examples are engineers, physicists, chemists, electronic scientists, metallurgists, astronomers, mathematicians, architects, and certain technologists, who are hired at \$4,480 in grade GS-5, \$5,335 in GS-7, \$6,115 in GS-9, and \$7,035 in GS-11. Also, starting pay in various aeronautical engineering specialties is at the maximum salary of the grade. Current entrance salaries are shown on job announcements, which can be obtained from Civil Service Commission offices and many post offices.

GENERAL SCHEDULE (GS)

Grade	Entrance Salary	Periodic Increase	Maximum Salary
1	\$2,690	\$85	\$3,200
2	2,960	85	3,470
3	3,175	85	3,685
4	3,415	89	3,925
5	3,670	135	4,480
6	4,080	135	4,890
7	4,525	135	5,335
8	4,970	135	5,780
9	5,440	135	6,250
10	5,915	135	6,725
11	6,390	215	7,465
12	7,570	215	8,645
13	8,990	215	10,065
14	10,320	215	11,395
15	11,610	270	12,690
16	12,900	215	13,760
17	13,975	215	14,835
18	16,000		16,000

IGY Postage Stamp

The 3-cent International Geophysical Year commemorative postage stamp to be placed on First-Day sale on May 31, 1958 in Chicago is based on a photograph of the sun and depicts an area of intense solar activity such as occurs periodically. It is among the phenomena being studied during the 18-month period of the International Geophysical Year.

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U. S. Naval Air Station, Corpus Christi	GS-5/9	***	***	Coast Guard, San Fran.	GS-11	GS-7 9	***
Ft. Bliss, El Paso	GS-11	***	***	NACA, Moffett Field	GS-5/15	GS-5/11	GS-5 13
CAA, Region 2, Ft. Worth	GS-5/11	GS-5 11	***	Bureau of Reclamation, Sacramento	GS-12	***	***
Weather Bureau, Ft. Worth	***	GS-5/9	***	CAA, San Fran.	GS-11/12	GS-5 9	***
Kelly AFB, San Antonio	GS-5/13	GS-7/11	GS-5/7	FCC, San Fran.	GS-5/13	GS-5/7	***
AF Security Service, San Antonio	GS-5/12	GS-7/9	***	Signal Depot, Sacramento	GS-5/11	GS-7/11	***
School of Aviation Medicine	***	***	***	Port Ord	***	GS-7	***
Hqs., 4th Army, San Antonio	***	GS-11	***	Forest Service: *See Page 3	***	***	***
OKLAHOMA:				SAN FRANCISCO			
Tinker AFB, Okla. City	GS-5/13	GS-7/11	GS-9	San Francisco	***	GS-7/12	***
CAA Aero Center, Okla. City	GS-5/12	GS-5/11	***	Sanhop	***	GS-5	***
Bureau of Mines, Bartlesville	***	***	***	Placerville	***	GS-6	***
FL Sill	GS-11	***	***	Nevada City	***	GS-7	***
ARKANSAS:				QUINCY			
Pine Bluff Arsenal	***	***	GS-5/9	Alturas	***	GS-7	***
LOUISIANA:				PORTERVILLE			
Southern Regional Research Lab., USDA, New Orleans	***	***	GS-5/12	Yreka	***	GS-6	***
U. S. Naval Station, News Orleans	GS-9	***	***	Fresno	***	GS-6	***
MISSOURI:				EUREKA			
CAA, Kansas City	GS-5/15	GS-5/12	***	Sonoma	***	GS-6	***
2nd Coast Guard Dist., St. Louis	GS-9	***	***	Forest & Range Exp. Sta., Berkeley	***	***	GS-7 13
U. S. Engineers, St. Louis	***	GS-9	***	Navy Dez. Sta., S. F.	***	***	GS-9
Bureau of Mines, Rolla	***	***	GS-5/12	Bureau of Standards, Arcata	***	***	GS-5/12
NEBRASKA:				EDWARDS AFB			
Offutt AFB, Omaha	GS-13	***	***	Western Div., ARDC, Inglewood	GS-5/13	GS-9/12	GS-5 14
MINNESOTA:				WESTERN DIV., ARDC, INGLEWOOD			
Bureau of Mines, Minneapolis	***	***	GS-5/12	Lookout Mountain Lab., L. A.	GS-12	***	***
NEW MEXICO:				MARCH AFB, RIVERSIDE			
White Sands Prvg. Ground, Las Cruces	GS-5/15	GS-5/12	GS-5/15	Norton AFB, San Bernardino	GS-5/13	GS-5 11	***
Holloman Air Dev. Center, Alamogordo	GS-5/15	GS-5/12	GS-5/15	Ballistic Missile Ofc., Inglewood	GS-12	***	***
Kirtland AFB, Albuquerque	GS-5/15	GS-5/12	GS-5/15	Parachute Test Dev., El Centro	GS-11	GS-9	GS-13
COLORADO:				U. S. ENGINEERS, L. A.			
Bureau of Standards, Boulder	GS-5/15	***	GS-5/15	L. A. Ordnance Dist., Pasadena	GS-12	***	GS-14
UTAH:				NAVAL INSPECTION OF ORDNANCE, POMONA			
Proving Ground, Dugway	GS-5/13	***	GS-9	U. S. Naval Shipyd., Long Beach	GS-12	GS-9 11	***
Hill AFB, Ogden	GS-7/9	***	***	Naval Arm. Depot, Seal Beach	GS-11/12	GS-7 12	***
ARIZONA:				CAA, LOS ANGELES			
Army Electronic Prvg. Ground, Ft. Huachuca	GS-5/15	GS-5/12	GS-5/14	Marine Corps Supply Center, Barrow	GS-12	***	***
WASHINGTON:				NAVAL AIR STA., NORTH ISLAND, SAN DIEGO			
Puget Sound Naval Shipyd., Bremerton	GS-5/14	***	GS-5/14	Naval Repair Facility, San Diego	GS-7/13	GS-9	***
Alaska Comm. System, Seattle	GS-5 14	GS-7/12	***	Naval Ord. Test Sta., China Lake	GS-9 13	GS-7 9	***
Asst. Industrial Mgr., Navy, Seattle	GS-9 12	GS-9	***	Naval Ordnance, Pasadena	GS-5/15	GS-7 12	GS-5 15
Naval Torpedo Sta., Keyport	GS-5/12	***	***	Naval Air Missile Test Center, Point Mugu	GS-5 15	GS-7 12	GS-5 15
Naval Ordnance Depot, Bangor	GS-5/11	***	***	Navy Electronics Lab., San Diego	GS-5 15	GS-7 12	GS-5 15
13th Naval Dist., Seattle	GS-11/12	***	***	Naval Ordnance Lab., Corona	GS-5 15	GS-7 12	GS-5 15
U. S. Coast Guard, Seattle	GS-9/11	***	***	Naval Civ. Eng. Research Lab., Port Hueneme	GS-5 15	***	***
CAA, Seattle	GS-7/14	GS-7/12	***	Dist. Public Works Ofc., San Diego	GS-9 10	***	***
Fish & Wildlife Service, Seattle	***	***	***	NACA, Edwards	GS-5 12	***	***
Atomic Energy Commission, Richland	***	***	***	NEVADA:			
OREGON:				NAVAL AMMUNITION DEPOT, Hawthorne			
Bureau of Mines, Albany	***	***	GS-5 12	Bureau of Mines, Boulder City	GS-11	***	GS-5 12
Bonneville Power Admin., Portland	GS-5 13	***	GS-9 12	Bureau of Mines, Reno	***	***	GS-7
Fish & Wildlife Service, Portland	***	***	GS-7 11	HONOLULU, HAWAII:			
Asst. Industrial Mgr., Navy, Astoria	GS-9 12	GS-9	***	Naval Ammunition Depot	GS-9 12	***	***
ALASKA:				PEARL HARBOR NAVAL SHIPYD.			
Alaska Comm. System, Anchorage	GS-5 14	GS-7/12	***	Dist. Public Works	GS-9 12	***	***
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17th Naval Dist., Kodiak	GS-9 12	***	***	Federal Communications Comm.	GS-9 13	***	***
CALIFORNIA:				COAST & GEODETIC SURVEY			
Army Terminal Center, S. F.	GS-11	***	***	U. S. Army Pacific	GS-9 12	GS-6 8	***
Presidio of San Fran.	GS-9 13	***	***	Weather Bureau	***	GS-7 11	***
Reg. Research Lab., Agric., Albany	GS-9	***	GS-5 12	Hickam AFB	GS-11	***	***
McClellan AFB	GS-5/13	GS-7/9	***	CAA	GS-7 13	GS-6 11	***
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U. S. Naval Shipyd., Mare Island	GS-5 14	GS-9/11	GS-5 11	STEWART K. FOGG			
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Circle 509 on "Opportunities" Inquiry Card, page 177

Electrical Characteristics of Printed Circuit Panels

DESIGNERS of military and industrial electronic equipment are using more and more printed circuits because of their simplicity, economy, and adaptability to mass-production methods. Design and application of printed circuit panels is usually a straightforward matter since the conductors can usually carry more current than we find in most electronic circuits. Occasionally, however, we need to use narrow or closely-spaced conductors. Then we need to know with some degree of certainty whether a particular conductor can fulfill its current-carrying requirements.

Temperature Rise

To obtain a general temperature behavior pattern for the current-carrying capacity of printed circuit conductors, a large number of measurements were made at the National Bureau of Standards, under different conditions of use, on various lengths and widths of conductors bonded to a variety of materials. The curves derived from the measurements showed that cross-sectional area is a dominant factor in the ability of a conductor to carry a given current for a particular temperature rise, especially for the usual copper thickness of 0.00135 in. (1 oz) and 0.0027 in. (2 oz). As might be expected, heavier coppers (0.004 in.) appear capable of carrying somewhat less current, and thinner coppers (0.00067 in.) somewhat higher current, for a given cross-sectional area than do medium-weight coppers.

Another factor affecting the temperature-current relationship is the thickness of the laminate core material. Core materials about 1/32 in. thick showed some reduction in current-carrying capacity compared with heavier cores. When a solid copper backing was used, the same type of material showed a higher current-carrying capacity. For the usual 1/16-in. core thickness, only small differences could be noticed between single-clad and double-clad laminate panels. Variations in ambient temperature also

(Continued on page 458)



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Printed Circuit Panel Characteristics

(Continued from page 457)

appear to have little effect on the temperature rise above ambient due to a given current.

A reduction in current-carrying capacity of about 15 to 20 per cent for a given temperature rise was found in samples coated with a protective plastic material. Such samples were less able to dissipate the heat generated in the copper conductor. Although in most samples the resistance of a particular conductor is actually decreased by dip soldering, an additional reduction in current-carrying capacity up to about 30 per cent was noted in many dip-soldered samples. This may be due to changes in the bond characteristics of the materials.

Surface Resistivity

Test samples of metal-clad laminates were subjected to a temperature of 70°C and 95 per cent relative humidity for a period of 2000 hr to determine the effects of various protective coatings on the surface electrical resistivity of the core material. Seven groups of XXXP-composition phenolic laminates and one of the epoxy glass-mat type were included in this test. The coatings included various epoxy resins, microwax, varnish and silicone compounds. The variation in surface resistivity for the coated samples was generally much higher than for uncoated control samples.

Little variation was found between dip-soldered and nondip-soldered samples. Although no set pattern has been established that could not be ascribed to normal variations in the samples, a slight trend toward higher surface resistivities was detected for the dip-soldered samples. In comparing the surface resistivity curves for the coated samples with those for the uncoated controls, little or no improvement was seen in most instances for the six coating materials. Considerable variation in the resultant surface resistivity beyond that recorded for the control samples was the rule rather than the exception. Additional variations were noted in the behavior of a

particular coating material on different core materials.

Dissipation Factor

Measurements were made over a frequency range of 10^2 to 10^7 cps on the dielectric properties of a group of 16 metal-clad laminates. Individual families of curves for each laminate were developed for dissipation factor and dielectric constant at -30°C , $+23^\circ\text{C}$, and $+100^\circ\text{C}$. Additional measurements were made at 150°C and 200°C on materials that might be expected to be useful at these higher temperatures.

With the exception of one sample, all of the phenolic-base materials showed a general reduction in dissipation factor with an increase in temperature at a frequency of 10^6 cycles. However, considerable variation in dissipation factor was observed for the entire phenolic group at the lower frequencies, particularly at the 100°C temperature level.

Two samples of the epoxy-glass mat type laminates also showed a variation in characteristics similar to the phenolics. However, at temperatures of 100°C or less, both samples showed less change in dissipation factor than those of the phenolic group over the entire frequency range.

Considerable differences in behavior were exhibited by the two glass-melamine G-5 samples tested. In one sample, the dissipation factor was influenced to an extreme degree by the test temperature. At 100°C , the dissipation factor was so high that it was impractical to make a determination with the existing equipment. The second sample showed characteristics similar to these of the phenolics with respect to temperature, but had a dissipation factor of less than 0.02 at 10^6 cycles. This value compares well with the epoxy samples tested.

For one sample of silicone G-7 material, the dissipation factor at 10^6 cycles was 0.02 or less at temperatures up to 100°C but was influenced to a marked degree at lower frequencies.

The polytetrafluoroethylene-glass mat sample had the lowest dissipation factor of any of those tested in the group. Some variations did

(Continued on page 460)

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MARTIN

BALTIMORE

Printed Circuit Panel Characteristics

(Continued from page 459)

occur at the various temperature levels, but they are relatively slight considering the temperature range. At -30°C , the dissipation factor was nearly constant over the entire frequency range.

The nylon-base phenolic N-1 material showed good stability at the lower temperatures. At the higher temperature of 100°C , the dissipation factor increased as the frequency increased.

Dielectric Constant

Determinations of the dielectric constant of the various core materials showed that this factor increased generally at higher temperatures. The outstanding exception was the polytetrafluoroethylene-glass mat material, which showed the opposite trend.

In the phenolic group the dielectric constant tended to be somewhat lower for the XXXP materials than for the XXP and XXX materials. At 10^6 cycles an over-all average for the XXXP materials tested was about 4, while for the XXX and XXP materials the dielectric constant averaged about 5. Both of the epoxy-base samples tested had dielectric constants at 10^6 cycles ranging between 5 and 6 at temperatures below 100°C . Above this temperature both samples showed increases to a value above 6.

Design Charts

One result of the work is a tentative design chart to aid in estimating temperature rise above ambient vs current for various cross-sectional areas of etched copper conductors. It is intended for use primarily with XXXP and epoxy-glass materials of 1/16 in. to 1/8 in. thickness and copper thickness of 0.00135 in. (1 oz), and 0.0027 in. (2 oz). Conductor surface area is assumed to be relatively small compared to the adjacent free panel area. The curves as presented include a nominal 10 percent current derating to allow for variations in etching technique and conductor

(Continued on page 462)

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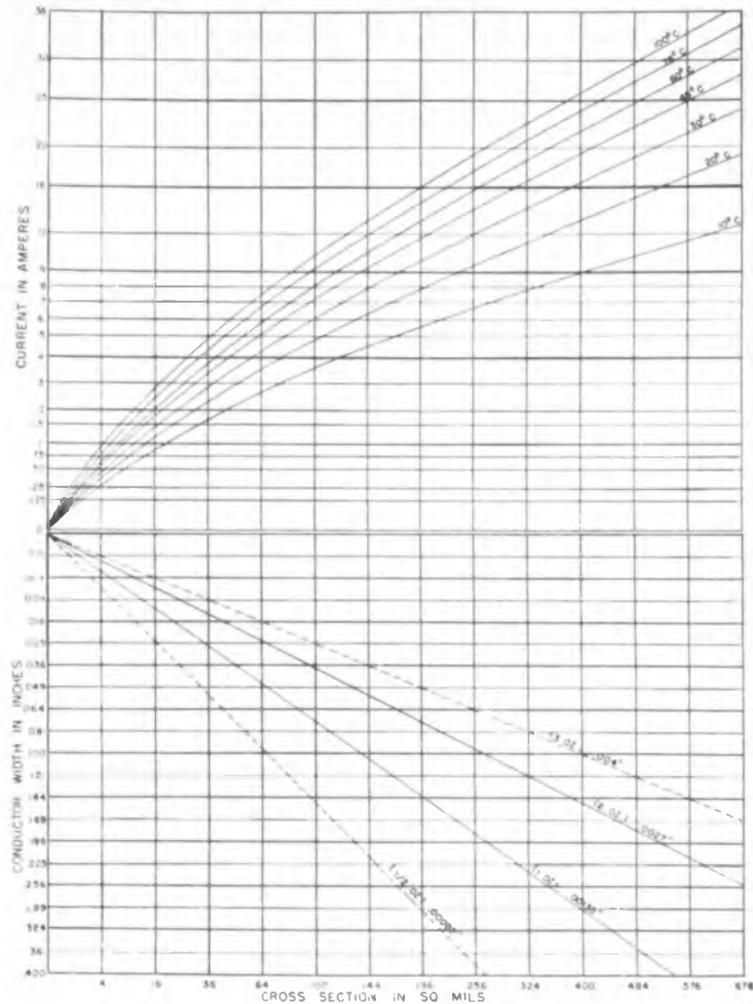
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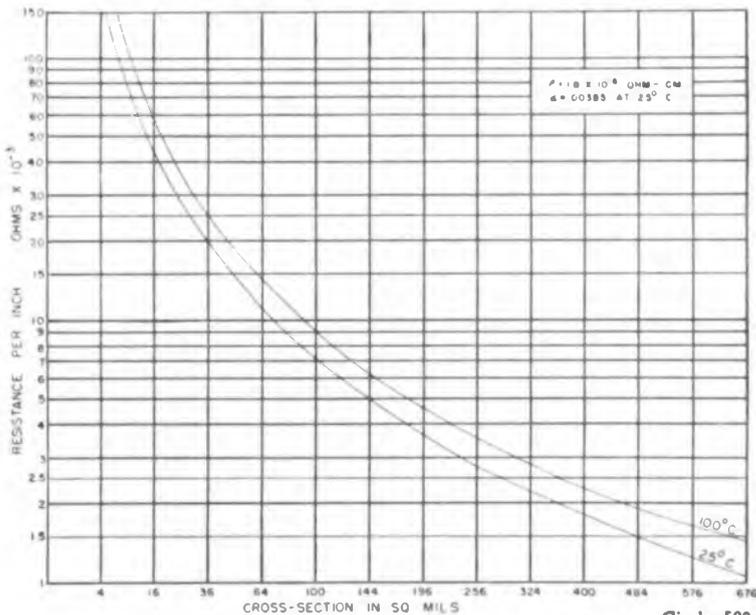
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Determining current carrying capacity and sizes of etched copper conductors for various temperatures (above). Resistance vs cross section (below).



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Circle 508 on "Opportunities" Inquiry Card, page 177

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Circle 141 on Inquiry Card, page 175

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Printed Circuit Panel Characteristics

(Continued from page 460)

width estimates under optimum conditions of use. For general application an additional current derating of up to 50 percent should be allowed in order to compensate for different panel and copper thicknesses, the use of dip-soldering techniques, and coatings.

For single conductor applications the chart can be used directly for determining conductor widths, conductor thickness, cross-sectional area, and current-carrying capacity for various temperature rises.

For groups of similar parallel conductors, if closely spaced the temperature rise may be found by using an equivalent cross-section and an equivalent current. The equivalent cross-section is equal to the sum of the cross-sections of the parallel conductors, and the equivalent current is equal to the sum of the currents in the conductors.

For applications where etched coils are to be used, the maximum temperature rise can be obtained by using an equivalent cross-section equal to $2n$ times the cross-section area of the conductor, and an equivalent current equal to $2n$ times the current in the coil where n is equal to the number of turns.

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Definitions

$a, b, c, \text{ etc.}$	Symbols used in symbolic logic
$a \cdot b$ or ab	Read as: a and b
$a + b$	Read as: a or b
a' or \bar{a}	Read as: not a
1	"True" or "On"
0	"False" or "Off"

Relations and Rules of Operation

1. $a + b = (a' b)'$; $ab = (a' + b)'$

DeMorgan's Theorem

2. $1 = 0'$; $0 = 1'$
3. $a + a = a$; $a \cdot a = a$
4. $a + 1 = 1$; $a \cdot 1 = a$
5. $a + b = b + a$; $ab = ba$

Commutative Laws

6. $(a + b) + c = a + (b + c)$
 $(abc) = a(bc)$

Associative Laws

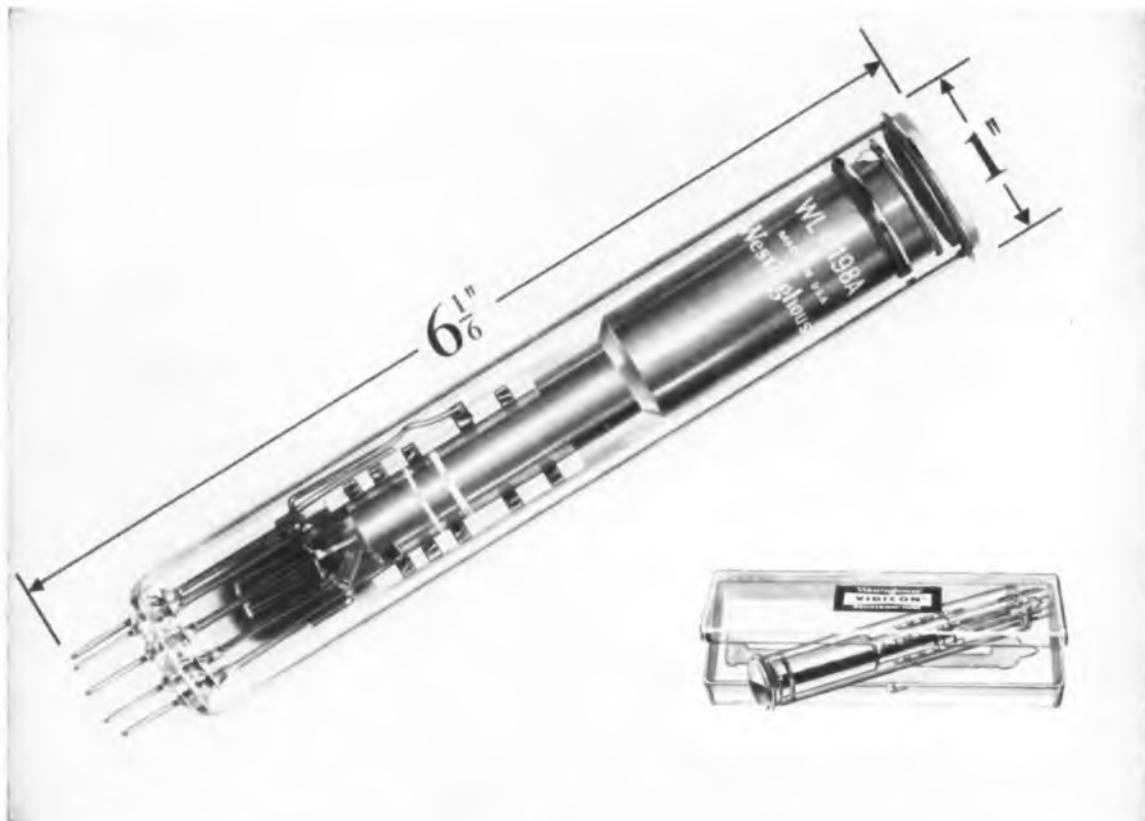
7. $a(b + c) = ab + ac$
8. $(a + b)(a + c) = a + bc$

Special Distributive Law

9. $a + a' = 1$; $a \cdot a' = 0$
10. $(a')' = a$

(Continued on page 464)

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- CONTINUOUS RESOLUTION
- BOLD IN LINE READOUT
- RUGGED GEAR DRIVEN SWITCHES

- SMALL SIZE
5 units can be placed in line on a 3 1/2 x 19 inch rack panel
- STANDARD SERVO RING MOUNT

FOR FURTHER INFORMATION

write your Gertsch Representative or the Factory for CATALOG NO. 6



Circle 144 on Inquiry Card, page 175

EISLER VERTICAL SPOT WELDER

MADE IN SIZES 1/2-1-2-3-5 KVA WITH OR WITHOUT TRANSFORMER OR TIMER.

SENT TO ANY RADIO TUBE MANUFACTURER IN U.S.A. ON A 30 DAY FREE TRIAL BASIS.



WELDER WITH TRANSFORMER



WELDER WITH TRANSFORMER & TIMER



SEND FOR CATALOG



EISLER ENGINEERING CO., INC.

770 So. 13th St., NEWARK 3, N. J.

Dr. Chas. Eisler, M.E. Founder
CHAS. EISLER, JR., PRES.

Boolean Algebra

(Continued from page 462)

EQUIVALENTS		TABLE OF 2 ⁿ	
Decimal	Binary		
0	0	1	2 ⁰
1	1	2	2 ¹
2	10	4	2 ²
3	11	8	2 ³
4	100	16	2 ⁴
5	101	32	2 ⁵
6	110	64	2 ⁶
7	111	128	2 ⁷
8	1000	256	2 ⁸
9	1001	512	2 ⁹
10	1010	1024	2 ¹⁰
11	1011	2048	2 ¹¹
12	1100	4096	2 ¹²
13	1101	8192	2 ¹³
14	1110	16384	2 ¹⁴
15	1111	32768	2 ¹⁵
16	10000	65536	2 ¹⁶
17	10001	131072	2 ¹⁷
18	10010	262144	2 ¹⁸
		524288	2 ¹⁹
		1048576	2 ²⁰

CONVERSION RULES

DECIMAL TO BINARY

- Write number $n + 0$ if even or $n - 1 + 1$ if odd.
- Divide even number obtained in a. by 2. Write answer (m) below in same form: $m + 0$ if even, $(m - 1) + 1$ if odd.
- Continue until m or $(m - 1)$ becomes zero.
- Column of ones and zeros so obtained is Binary equivalent of n with least significant digit at the top.

EXAMPLE: $n = 327$

326 + 1
162 + 1
80 + 1
40 + 0
20 + 0
10 + 0
4 + 1
2 + 0
0 + 1

THEREFORE THE BINARY EQUIVALENT OF 327 IS 101000111

BINARY TO DECIMAL

- Start with most significant digit—double it if the next digit is a zero or "dibble" it (double and add one) if the next digit is a one.
- If the 3rd digit is a zero, double value obtained in a., if it is a one "dibble" value obtained in a.
- Continue until operation indicated by least significant digit has been performed.
- Result is the decimal equivalent of the Binary number.

EXAMPLE: 101101

The sequence of numbers obtained in following the above procedure is:

1
2
5
11
22
45

SO 45 IS THE DECIMAL EQUIVALENT OF 101101

when rf power must be absorbed
or accurately measured...



Thru-line

DIRECTIONAL RF WATTMETERS

Direct reading... "thru" type... for measuring forward or reflected power in complete systems under operating conditions... inserted between transmitter and antenna or load... full scale power and frequency range determined by plug-in elements.

Model	Line	Impedance	Frequency	ELEMENTS	Power	Connector
43	RG-8/U etc.	50 ohms	25-60; 50-125; 100-250; 250-500; 400-1000 mc	10; 25; 50; 100; 250; 500 W	M; C; MN; UHF	
4712	1 1/8"	50 ohms	200-500; 400-1000 mc	.5; 1.0; 1.5; 2.5; 5.0 KW	Rtma Std.	
460	3 1/2"	50 ohms	200-500 mc	1; 2.5; 5; 10	Flange	
480	3 1/2"	51.5 ohms	400-1000 mc	25; 50 KW	Sloona	
490	6 1/8"	51.5 ohms	200-500 mc	25; 50 and 100 KW	Bullet	

COAXIAL RF FILTERS



Designs utilize both distributed and lumped constant... insertion loss and VSWR are very low in pass band... high attenuation in stop band... new miniature filters as light as 5 ounces. Will produce in quantity to your specs.

	Low Pass	Low Pass	Low Pass	Low Pass	High Pass	Band Pass
Models	5310	5311	522	819-1200	530	5131
Cut Off	90 mc	160 mc	400 mc	1200 mc	420 mc	45 mc & 105 mc
Stop Band	100-180 mc	180-320 mc	500-1700 mc	1900-4000 mc	100-375 mc	33.7-39.7 mc & 120-1000 mc
Max Power	100W	100W	150W	3 kW	50W	25W
Min Stop Band Atten.	55db	55db	55db	40db	60db	25db & 40db
VSWR in p.b.	1.5	1.5	1.35	2 to 1	2.5	1.6
Connectors	Female N		Male-Female N		Female BNC	

Chart shows characteristics of typical filters

50 OHM NOMINAL

You will find dependable coaxial line instruments and accessories at Bird Electronic. Specialization in this field, backed by a constantly growing engineering staff and enlarged physical facilities, has resulted in the continuous development of new designs to meet specific requirements. If you are searching for more than a standard product for field or laboratory use, turn to Bird Electronic. Our years of experience in this field may assist you in the solution of your problem.

***Termaline* RF ABSORPTION WATTMETERS**

Portable... direct reading... non-radiating "load" type wattmeter... used in field or laboratory to measure and absorb power... accuracy ± 5% of full scale... VSWR 1.1 to 1 maximum over operating range.

Model	Freq. Range	Max. Power	Power Range Scales	Input Connector
611	30-500 mc	60W	0-15; 0-60	Female N
612	30-500 mc	80W	0-20; 0-80	
67	30-500 mc	500W	0-25; 0-100; 0-500	Coplanar with Adapter to UG-21/U (optional) RG-17 & RG-19 cable assemblies; adapters to rigid lines
67C*	30-500 mc	2500W	0-100; 0-500; 0-2500	
824*	30-220 mc	5000W	0-5000	



*Water cooled (other available models described in specification sheets)

COAXIAL SWITCHES

Small compact design permits the "Coaxswitch" selector to be incorporated into many electronic units where repeated channel switching is required. Finger-tip operation; pull knob, rotate and push in to make contact.



Model	74	71B	72B	62-2
Positions	Six	Eight	Reversing Switch	Two
Coaxial Circuits	One	One	Two	Two
Connector	Type N female connectors are standard on all models to receive UG-21/U series plug. Use adapters with other cables and connectors.			

***Termaline* RF LOAD RESISTORS**

Reflection-free terminations for 50 ohm coaxial lines... low VSWR... non-radiating... water cooled ratings 2500 W to 50 KW... air cooled rating to 1500 W.



Model	Max. Power	Freq. Range	Max. VSWR	Connector
B0	5W	0-1KMC	1.1	"N", "C", "BNC"
B0A	20W	0-500MC	1.1	N Female
B1	50W	0-1KMC	1.1	
B1B	80W	0-1KMC	1.1	Coplanar with Adapter to UG-21/U
B2A	500W	0-1KMC	1.1	
B83	1.2KW	0-1KMC	1.1	LC
B80	1.5KW	0-1KMC	1.1	3 1/2" Flanged

*Other VSWR requirements can usually be met by special selection.

turn to...



BIRD

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GASEAL[®]

Pressurized metal hermetic seals for easy installation anywhere without special tools. Withstand more than 850 degrees F., high pressures and altitudes. For any sealing configuration.

**Best Insurance
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Corrosion...dust...fungus...altitude...humidity...pressures. *True* hermetic sealing completely eliminates their usually disastrous effects on electronic and mechanical apparatus.

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For inert gas filling, 100% mass spectrometer leak testing of any assembly, and every phase of *true* hermetic sealing to meet military or industrial specs, GHS in-plant services are unequalled.

The GHS Megpot[®]



Quickly, efficiently tests your components, insulation. Features 10 million megohms, 100, 200 or 500V DC, automatic "charge" and safety controls, non-destructive (as high as 5000V AC) high-potential test set with current limiting and automatic shut-off circuit. Portable.

Write for Specific Information... and use the GHS Advisory Services without obligation.



NULL CONNECTIONS FOR SYNCHROS

Type of Synchro	Excitation between	Read null between	Null angle (degrees)
Control Transmitter (CX)	R1 & R2	S1 & S3	0 & 180
		S3 & S2	60 & 240
		S2 & S1	120 & 300
Control Transformer (CT)	S2 & S1, S3	R1 & R2	0 & 180
		R1 & R2	60 & 240
		R1 & R2	120 & 300
	S2 & S1, S3	R1 & R3	0 & 180
		R2 & R1	60 & 240
		R3 & R2	120 & 300
Control Differential Transmitter (CDX)	S3 & S1, S2	R2 & R1	0 & 180
		R3 & R2	60 & 240
		R1 & R3	120 & 300
	S1 & S2, S3	R3 & R2	0 & 180
		R1 & R3	60 & 240
		R2 & R1	120 & 300
Resolver (R)	R2 & R1, R3	S1 & S3	0 & 180
		S3 & S2	60 & 240
		S2 & S1	120 & 300
	R3 & R1, R2	S2 & S1	0 & 180
		S1 & S3	60 & 240
		S3 & S2	120 & 300
(short unused primary)	R1 & R2, R3	S3 & S2	0 & 180
		S2 & S1	60 & 240
		S1 & S3	120 & 300
	R1 & R3	S1 & S3	0 & 180
		R2 & R4	0 & 180
		R1 & R3	90 & 270
S2 & S4	S2 & S4	90 & 270	
	S1 & S3	0 & 180	
	R2 & R4	0 & 180	
S1 & S3	S1 & S3	90 & 270	
	R2 & R4	0 & 180	
	R1 & R3	90 & 270	

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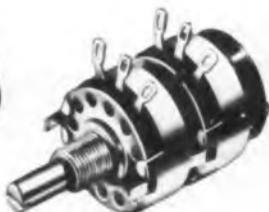
THE FIRST POTENTIOMETER to satisfy CHARACTERISTIC "Y" of MIL-R-94

The Type J (RV-4)

The popular Type J potentiometer is designed for operating continuously at 70° C ambient at full rating of 2 watts. Control is always smooth—without abrupt resistance changes—because of the solid, hot molded resistance element that is used. Even initially, noise characteristics are extremely low, but actually improve with use. The Type J potentiometer is made in single, dual, and triple units with various types of shafts, and with a built-in line switch. It is also furnished encapsulated in epoxy resin. Total resistance values range from 50 ohms to 5 megohms. Taps can be supplied. Type J is available in all standard tapers.



Triple Unit Control
with Plain, Short Shaft



Dual Element Control
with 125 v Line Switch



Single Unit with Short
Shaft and Lock Type Bushing



Single Unit Variable
Resistor with Long Shaft

ALLEN-BRADLEY Hot Molded Composition POTENTIOMETERS

The Type G (RV-6)

This tiny potentiometer—only 1/2 inch in diameter—is designed for use where space must be conserved without sacrificing performance. The solid, hot molded resistor element assures long operating life and low noise level which improves with use. Full rating of 1/2 watt at 70° C ambient. Available with plain or lock type bushings, and with line switch. The Type G can also be supplied encapsulated in epoxy resin. Total resistance values from 100 ohms to 5 megohms. Available in all standard tapers.



With Plain Type Bushing



With 125 v Line Switch



With Lock Type Bushing



Encapsulated

Write for Technical Bulletin 5200

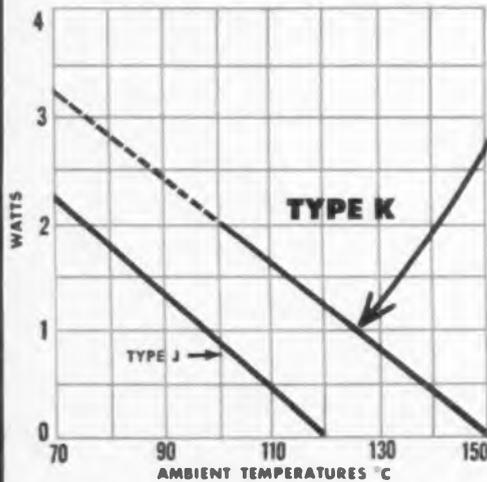
When you want the ultimate in performance—potentiometers that not only satisfy—but exceed—the most rigid moisture resistance and thermal cycling requirements of MIL-R-94B, Characteristic "Y"—insist on Allen-Bradley.



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1 WATT AT 125°C!



Comparison between Type K and Type J variable resistors—power ratings vs. ambient temperature. Type K far exceeds the requirements of MIL-R-94B.



TYPE K

HIGH TEMPERATURE

Hot Molded Composition Potentiometer

Especially designed for high temperature applications, the Type K has ultraconservative ratings of 1 watt at 125° C, 2 watts at 100° C, and 3 watts at 70° C ambient temperatures. It can be operated at 150° C—under "no load" conditions. Thus, the Type K potentiometer far surpasses the requirements of characteristic "Y," of MIL-R-94B. The solid, hot molded resistor element assures long life, smooth operation, and low "noise"—particularly after long use. Identical in size and physical construction to the well-known Type J potentiometer. Also furnished in the same types and resistance ranges.

For Industrial

Electronic Applications

Rugged... Reliable!

TYPE H Hot Molded Composition Potentiometer

The Type H variable resistor is especially designed for applications requiring smooth control and long life—in a 5-watt rating. The dual track, solid resistance element eliminates all moving metal-to-metal electrical contacts, making it outstanding for its low "noise" characteristics, both initially and after long use. It provides an operating life of over 100,000 cycles with no appreciable change in resistance. The Type H is rated 5 watts at 40° C, with a maximum continuous voltage of 750 volts. Total resistance—50 ohms to 2.5 megohms.



Available with plain, lock type, or watertight bushings. Shafts available as plain round or with screwdriver slots.



Two types of mountings furnished. One-hole, back-of-panel mounting, at left; or front-of-panel mounting, above.



For Printed Circuits

TYPE F—Only 1/2 inch in diameter, yet rated 1/4 watt at 70° C. Gold plated terminals for reliable soldering. With slotted shafts only.



Flat... Compact

TYPE T—Rated 1/2 watt at 70° C. Using cover as actuator results in a very thin unit... ideal for miniaturized equipment. 100 Ohms to 5.0 megohms.



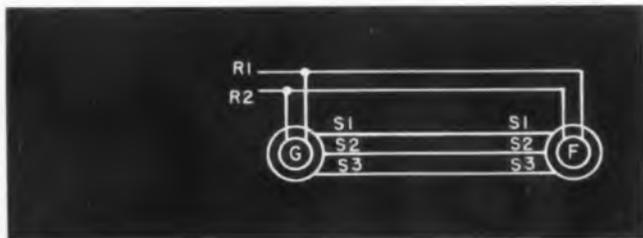
Electronic Components

Allen-Bradley Co., 222 W. Greenfield Ave.
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In Canada: Allen-Bradley Canada Ltd., Galt, Ont.

Synchro Trouble Shooting

Shortcuts for locating external wiring problems are listed in an easy to follow tabular form.



A synchro generator properly wired to a synchro follower.

QUITE often when various units containing synchros are interconnected and energized, erroneous readings are obtained or rotation is reversed. Assuming that the synchros are zeroed,¹ this means that the troubles are caused by external wiring. The table below is intended to aid the engineer in rapidly locating the misplaced leads.

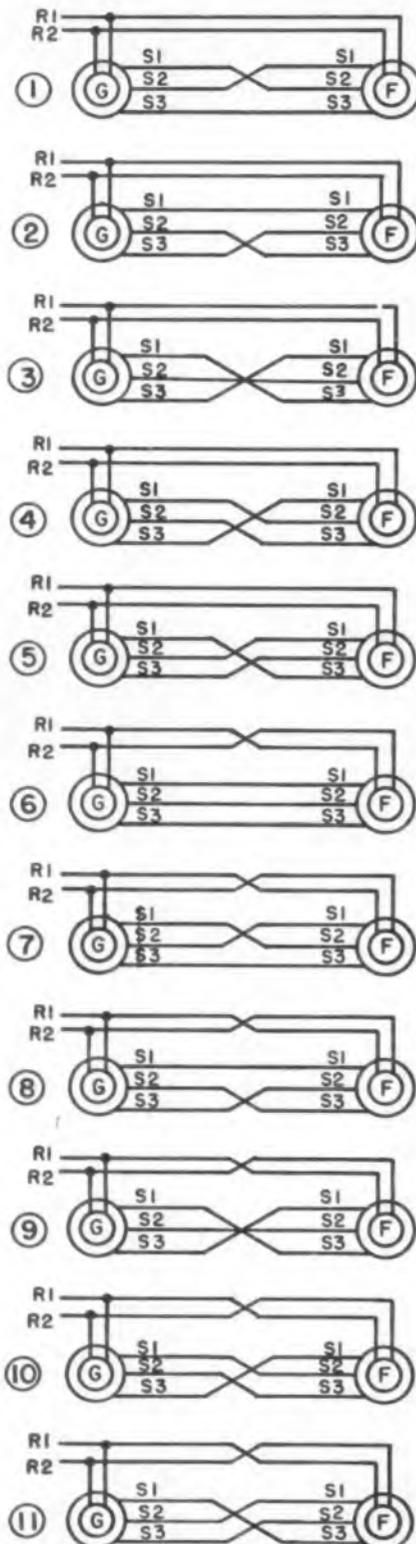
The table below applies provided, that along with the synchros being electrically at zero and not defective, there is normal torque and no heating or overload.

(Continued on page 471)

¹ Philip L. Hillman and Francis J. Galvin. "Procedures for Electrically Zeroing Synchros." *Electronic Industries*, December 1957.

Table 1
WIRING ERRORS

Follower rotation in respect to Generator is:	With Generator on zero. Follower reads:	Cause is:	Refer to drawing:
Opposite	240°	S1-S2 Reversed	1
Opposite	120°	S2-S3 Reversed	2
Opposite	0°	S1-S3 Reversed	3
Same	120°	S1 to S2, S2 to S3, S3 to S1	4
Same	240°	S1 to S3, S2 to S1, S3 to S2	5
Same	180°	R1-R2 Reversed	6
Opposite	60°	S1-S2 Reversed, R1-R2 Reversed	7
Opposite	300°	S2-S3 Reversed, R1-R2 Reversed	8
Opposite	180°	S1-S3 Reversed, R1-R2 Reversed	9
Same	300°	S1 to S2, S2 to S3, S3 to S1 and R1-R2 Reversed	10
Same	60°	S1 to S3, S2 to S1, S3 to S2 and R1-R2 Reversed	11



Drawings are referred to in the table at left.

eppe has shipped over 23,000 size 8 synchros

Field Tests Prove their Built-In Reliability



and...
made provision to deliver
much larger quantities
with their new Colorado
Springs synchro facility

Why not buy fully proven size 8 synchros? Clifton Precision size 8 units have been designed, developed, in production 2 years and are now being built into field equipment tested and accepted by end-use agencies.

Such acceptance made it necessary for us to establish another plant in Colorado Springs to produce size 8 synchros.

Accuracies not exceeding 7 minutes max. of error are guaranteed.

A full line of size 8 rotary components is available including AC and DC motors, linear transformers and motor generators.

For full information write or call Sales Department, Hilltop 9-1200 (Suburban Philadelphia) or our representatives.



ACTUAL SIZE

TYPICAL SYSTEM MEASUREMENTS

	Input		Output		Sensitivity (Volts - Amps)	IMPEDANCE		Phase Shift (Deg.)	Remarks
	(Volts)	(Watts)	(Volts)	(Watts)		Input	Output		
Transmitter - Control Transformer	25	111	24	22.5	300	50 + j25	420 + j20	16	High impedance load on CT
Transmitter - Control Transformer	25	111	25	23.8	271	50 + j25	40	30° lead on CT	
Transmitter - Control Transformer	25	110	25	18.2	300	60 + j27	17	31° lead on CT	
Transmitter - Resolver - CT	25	124	1.70	18.5	340	100 + j50	40	Loaded to High Impedance	
Electrical Resolver - Electrical Resolver	11.8	115	7	100			52	Input to motor	
Electrical Resolver - Electrical Resolver	25		15	100			52	Input to motor	

Clifton Precision Products Co., Inc.
Clifton Heights
Pennsylvania



Synchro Trouble Shooting

(Continued)

The foregoing information was concerned with mix-ups in external wiring. The information on these pages is intended to aid the engineer in locating open or shorted external leads in the rotor or stator circuits. The foregoing is likely to happen only on initial installation. The problems listed in Tables 2, 3 and 4 may occur at any time under rough conditions.

Open or Shorted Rotor Leads

Some general hints that may be indicative of, or concerning open or shorted rotor leads as shown in Table 2 are as follows:

1. Be sure that the Follower is not jammed.
2. Unit or units get hot, with one being hotter than the other.
3. Follower reads wrong.
4. Follower usually follows smoothly in the same direction as the Generator.
5. Indicator for overload lights, if indicators are used.
6. Units will hum at all Generator settings.

Shorted Stator Leads

Some general hints that may be indicative of, or concerning shorted stator leads, as shown in Table 3 are as follows:

1. Be sure that the Follower is not jammed.
2. Indicator for overload lights at all positions except two opposite ones.
3. Units get hot at all settings except two opposite ones.

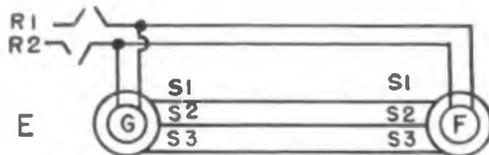
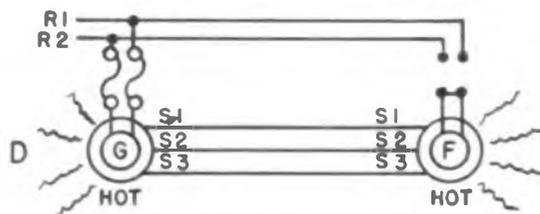
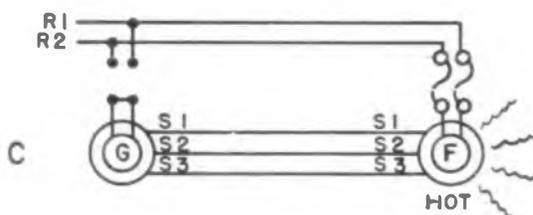
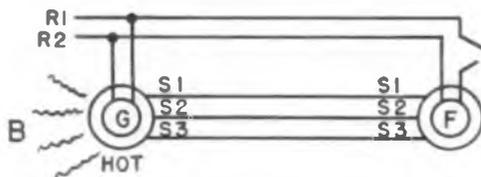
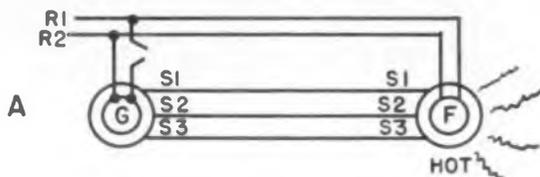


Fig. 3: Drawings are referred to in Table 2. While fuses are desirable in all of the "R" leads above, they were omitted in some drawings for simplicity.

4. Units hum at all settings except two opposite ones.
 5. Follower stays at one setting
- all the time or flops between two opposite settings.

(Continued on page 473)

Table 2

ROTOR LEADS SHORTED OR OPEN

With Generator on zero and rotated counter-clockwise		Cause is:	Refer to drawing:
Follower reads:	General symptoms:		
Zero or 180°	Follower torque sloppy. Follower gets hot.	Generator R lead is open	A
Zero or 180°	Follower torque sloppy. Generator gets hot.	Follower R lead is open	B
90° or 270°	Follower torque normal. Generator and Follower hot. Generator fuses blown.	Generator R leads shorted	C
90° or 270°	Follower torque normal. Generator and Follower hot. Follower fuses blown.	Follower R leads shorted	D
Any bearing	No overload, heat or humming. No Follower rotation.	Both R lead feeds open	E

COMPLETE LINE 125° C SERVO MOTOR TACH GENERATORS

to your precise specification

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- Both Damping and Integrating types available with parameters to your requirement.
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- -54° C to +125° C ambient temperature range.
- Designed to MIL E-5272.
- Assembled under closely controlled environmental conditions.

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Oster Type	Size	Length Inches	WL Oz.	Rotor Inertia gm-cm ²	MOTOR					GENERATOR				
					Rated Voltage		No load speed RPM	Wrt'n per phase @ Stall	Stall Torque OZ. IN.	Excit. Volt.	Output Volts per 1000 RPM	Lin. % to 2000 RPM	Null MV	Phase Shift @ 25° C
					1	2								
8MTG-6201-01	8	1.850	2.3	0.77	26	40/20	6,500	2.2	0.16	26	0.25	0.5	15	± 5°
*10MTG-6228-02	10	2.157	4.2	0.72	115	115/57.5	9,500	2.8	0.26	115	0.45	1.5	19	± 10°
10MTG-6229-12	10	2.100	2.9	1.09	33/16.5	52/26	9,500	3.0	0.28	26	0.45	1.5	13	± 10°
*10MTG-6229-03	10	2.100	2.9	1.09	26	26	10,500	3.0	0.26	18	0.3	1.5	12	± 10°
10MTG-6229-15	10	2.100	2.9	1.09	26	26	10,500	3.0	0.26	26	0.3	1.5	12	± 10°
*10MTG-6232-05	10	2.104	4.2	1.1	115	36/18	6,500	3.5	0.26	115	0.30	1.5	15	± 10°
11MTG-6251-13	11	2.531	7.0	1.3	115	115/57.5	6,500	3.5	0.63	115	0.55	0.5	19	± 10°
11MTG-6251-00	11	2.531	7.0	1.1	115	40/20	6,500	3.5	0.63	115	0.55	1.5	19	± 10°
11MTG-6254-01	11	2.200	6.0	1.1	115	115/57.5	6,500	3.5	0.63	115	0.55	1.5	19	± 10°
15MTG-6280-01	15	3.281	14.0	5.3	115	115/57.5	5,000	6.2	1.5	115	3.0	0.2	13	± 5°
*15MTG-6276-03	15	3.875	15.0	4.4	115	57.5	8,500	5.8	0.70	115	2.75	0.2	13	± 0.5°
18MTG-6302-02	18	3.680	20.0	5.7	115	115/57.5	9,000	16.0	2.7	115	3.0	0.2	13	± 5°
18MTG-6302-04	18	3.680	20.0	5.7	115	115/57.5	4,800	9.2	2.4	115	3.0	0.2	13	± 5°

*These units designed for 85°C ambient but same characteristics can be designed for 125°C. (Additional 21.4 watts for heater, the values given are independent of ambient temperature.)

Other products include servos, synchros, resolvers, motor-gear trains, AC drive motors, DC motors, servo mechanism assemblies, reference and tachometer generators, servo torque units, actuators and motor driven blower and fan assemblies.

John Oster

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Interesting, varied work on designing transistor circuits and servo mechanisms. Contact Mr. Robert Burns, Personnel Manager, in confidence.

Synchro Trouble Shooting (Concluded)

Table 3
STATOR LEADS SHORTED

Follower reads right at:	Units get hot between Generator settings:	With Generator rotation, Follower stays or flops to:	Cause is:	Refer to drawing:
120° and 300°	340°-80° and 160°-260°	120° or 300°	S1 shorted to S2	F
60° and 240°	280°-20° and 100°-200°	60° or 240°	S2 shorted to S3	G
0° and 180°	40°-140° and 220°-320°	0° or 180°	S1 shorted to S3	H
No bearing	Both units hot all settings	No following or spins	All S leads shorted	I

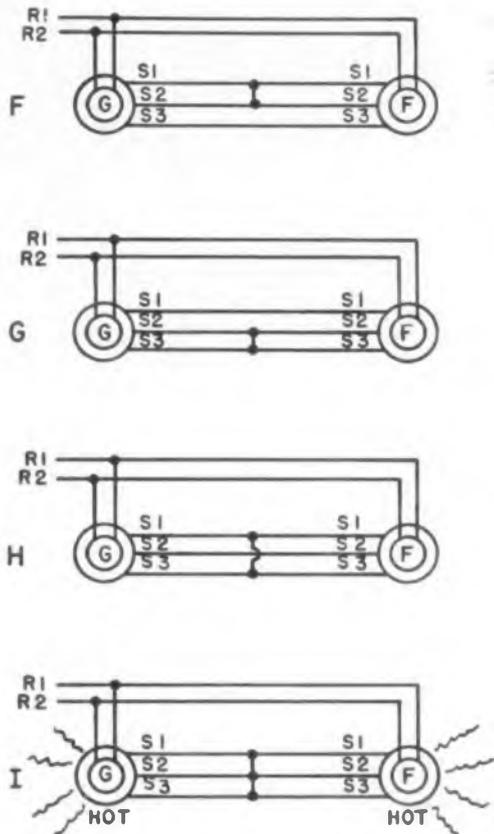


Fig. 4: Table 3 refers to these drawings. Note in Fig. 'I' that both units get very hot with all "S" leads shorted.

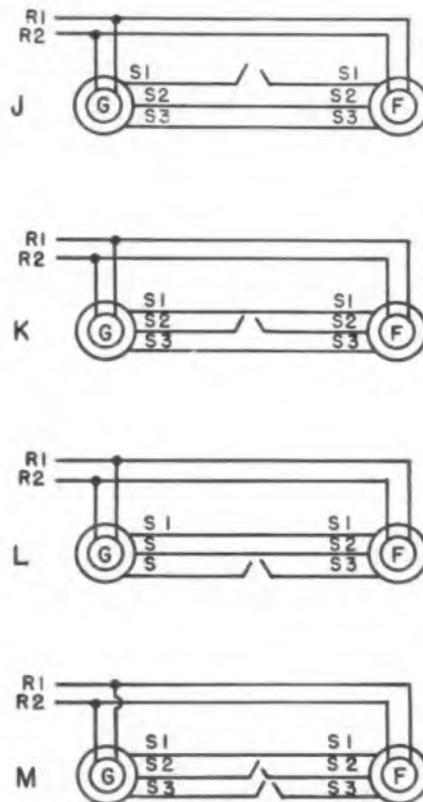


Fig. 5: Table 4 below makes reference to these drawings. Three "S" leads open will give the same effect as 2 in 'M.'

(Continued from page 471)

6. Follower may spin or oscillate violently.

Open Stator Leads

Some general information that may be indicative of, or concerning, open stator leads as shown in Table 4 are as follows:

1. Follower reads wrong.
2. Follower may turn backwards.
3. There is no overload.
4. Neither unit gets hot or hums.
5. Torque is normal.

Table 4

OPEN STATOR CIRCUIT

With Generator at zero, Follower is:	Follower stalls or reverses when Generator is moved to:	Cause is:	Refer to drawing:
Sloppy between 300° and 0°	150° or 330°	S1 open	J
Fair torque at 0° or 180°	90° or 180°	S2 open	K
Sloppy between 0° and 60°	30° or 210°	S3 open	L
No Follower movement	No Follower movement	Two or three S leads open	M

Ed. Note: While a large number of engineers still refer to synchros used here as generators (G) and followers (F), the "American Standard Graphical Symbols for Electrical Diagrams, Y32.2-1954" issued by the American Standards Association recognizes them as synchro control transmitters (CX) or torque-synchro transmitters (TX) and torque-synchro receivers (TR).

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RUSSIAN SECTION

Selected references published in this section
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ANTENNAS, PROPAGATION

Posing the Problem in Periscope-Antenna Theory. H. E. Kinber, and A. M. Pokras. "Radiotek." July 1957. 11 pp. The paper examines certain problems which are involved in the solution of the direct and converse problems of periscope-antenna theory. Rational parameters are introduced, and the possibility of using geometric optics in the region occupied by the reradiator is demonstrated.

Long-Wave and Intermediate-Wave Cylindrical Slot Antennas. G. Z. Aizenberg, A. M. Model, L. P. Pozdnyakov. "Radiotek." Oct. 1957. 12 pp. The paper describes radio broadcast antennas which are mounted on low supports. It demonstrates that by using cylindrical slotted dipoles in the capacity of intermediate-wave antennas (these antennas are common in the field of centimeter and decimeter waves, but are substantially modified for use in the intermediate-wave range), it is possible to lower the height of the antennas by 70% while retaining a high efficiency and the required pass band. A theoretical analysis is given which proves the possibility of obtaining a high efficiency for such antennas. Experimental data is given for operational tests.

ABBREVIATIONS

Avto. i Tel. Avtomatika i Telemekhanika
Radio. Radio
Radiotek. Radiotekhnika
Rad. i Elek. Radiotekhnika i Elektronika
Iz. Acad. Bull. of Academy of Sciences, USSR.

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Computing the Gain of a Periscope Antenna System. A. M. Pokras. "Radiotek." Nov. 1957. 7 pp. Formulas and universal graphs are obtained for computing the gain of a periscope antenna system when this system has a radiator in the form of an ellipsoidal reflector with a circular or square mouth. Systems with plane and parabolic reradiators are analyzed.

An Intermediate-Wave Radio Broadcasting Antenna On Low Masts. B. S. Nadenenko. "Radiotek." Dec. 1957. 10 pp. The paper describes the arrangement and tuning circuit of an intermediate-wave radiobroadcast antenna of the slotted type; a method is given for analyzing all the antenna parameters.



CIRCUITS

Exponential Pulse-Time Converters. A. I. Novikov. "Avto. i Tel." Aug. 1957. 7 pp. The basic relationships which govern exponential pulse-time converters are analyzed. Descriptions are given for converter circuits and for a multi-channel pulse telemetering system with exponential converters and no commutator.

Certain Properties of Thermistor Circuits. G. K. Nechaev. "Avto. i Tel." Aug., 1957. 9 pp. An analysis is made of the temperature dependence of the conductance and resistance of two-terminal networks which contain thermistors. Derivations are made of the conditions governing the attainment of these functions in a linear approximation. A method is given for computing the temperature compensator required for linear resistances.

Concerning the Estimate of Electronic Integrating Devices. B. Ya. Kozan. "Avto. i Tel." Sept., 1957. 3 pp. Three main types of electronic integrators are compared for the value of each as regards the minimum possible frequency for integrating the sinusoidal input signal and the maximum possible time for integrating the step-signal.

Review: Extremum Regulation. Yu. I. Ostrovsky. "Avto. i Tel." Sept., 1957. 3 pp. The basic circuits of extremum-regulators, described in Soviet and foreign literature, are classified and presented.

A Design of a Circuit of Alternating Current of a Magnetic Amplifier. N. A. Katuzhnikov. "Avto. i Tel." Sept., 1957. 5 pp. The article

suggests a method for designing a circuit of alternating current of magnetic amplifiers with cores of iron-nickel alloy, based on the theory of an "ideal" magnetic amplifier. The performance is examined of a choke-coupled magnetic amplifier with a complex (inductive-active) load and alternating current; also analyzed are the peculiarities of performance of a two-cycle circuit with an inductive load.

The Calculation of a Magnetic Circuit and Coil of Alternating Current for Given Parameters. B. K. Ibul. "Avto. i Tel." Oct., 1957. 4 pp. A method is given for the calculation of the electrical, magnetic, and design parameters of a circuit and coil of alternating current. Calculation taking account of coil resistance, losses in steel, and also using the non-linear magnetic characteristics. It is shown that the method of calculation could also be applied to circuits of direct current. The calculation of several variations with different given parameters is described. A numerical example is given.

On the Design of Input Circuits of Electronic Amplifiers of Autocompensators. D. E. Polonnikov. "Avto. i Tel." Oct., 1957. 4 pp. The importance of interference noise due to the filament circuit for the amplifiers of autocompensators is demonstrated and the formula to calculate it is presented. The author discovers the source of noises that appear with the paring of input circuits, and the method for their elimination is offered. The optimum coefficient of the input transformation providing the maximum sensitivity is determined.

Non-linear Converters with Single Input. L. W. Mosvades, A. A. Feldbaum, L. N. Figner. "Avto. i Tel." Oct., 1957. 6 pp. The methods of designing an electronic non-linear converter with one input are considered. The results of working out schemes of basic types of non-linear converters—diode, diode-triode, combined, and compensation converters—are given. The fields of application are pointed out.

Calculation of Magnetic Amplifiers For A Specified Supply Voltage. N. P. Vasil'eva, B. A. Sedyskh. "Avto. i Tel." Nov., 1957. 9 pp. It is shown that for a specified supply voltage and a specified load the volume of the amplifier is proportional to the ratio between the supply voltage and the load voltage when the magnetic mode of operation remains constant. Formulas and data are provided which make it possible to choose between an optimally-computed amplifier with a separate matching transformer and an amplifier computed for a specified supply voltage. Conclusions are drawn for amplifiers with and without feedback.

Relay Phenomena in Toroid Circuits Containing Magnetic Elements With a Rectangular Hysteresis Loop. by V. A. Zhoshikashvili, G. G. Mitinskii. "Avto. i Tel." Jan., 1958. 11 pp. The paper describes relay phenomena which appear in circuits that contain magnetic cores with a rectangular hysteresis loop and are encompassed by positive feedback. An analysis is made of the static characteristics and the transient response resulting from single or multiple perturbation. Response to pulse interference is also analyzed.

Certain Optimum Relationships in an Ideal Magnetic Amplifier When it is Controlled by Means of an AC Signal. by K. S. Volchkov. "Avto. i Tel." Jan., 1958. 10 pp. The paper analyzes the operation of an ideal saturable-reactor magnetic amplifier with a resistive load and an AC control signal. Optimum relationships are derived for amplifiers that are designed for amplifying a signal at one fixed frequency and for amplifying AC signals over a specified band width while assuring maximum gain. The relationship between the coefficient of frequency distortion and the time constant is derived.

The Design of Complex Resonators. A. I. Zhitovskiy. "Radiotek." Jan., 1957. 6 pp. The paper examines complex resonators which consist of several sectors of homogeneous concentric lines with different wave impedances. Expressions are derived for the engineering design of such resonators.

A Self-Excited Oscillator With A Heavily Damped Tank Circuit. by A. Z. Khaikov.

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"Radiotek," Jan., 1957, 10 pp. The paper examines the problem involved in the dependence of the shape of the oscillations and the energy relationships in a self-excited oscillator upon the damping of the tank circuit. The optimum operating regimes are found from the points of view of the power delivered to the load and the over-all oscillator efficiency.

Simplified Analysis Of Circuits For Self-Excited Transistor RF Oscillators. P. D. Berestnev. "Radiotek," Apr., 1957, 6 pp. Simplified expressions are derived for the oscillator frequency and the conditions for self-excitation for two self-excited oscillator circuits (with a common emitter and a common base) which have the tank circuit in the collector loop. The coupling between the input and output circuits can be transformer type, auto-transformer type or capacitive.

The Problem Of Synthesizing Amplifier Circuits. S. V. Samsonenko. "Radiotek," Apr., 1957, 13 pp. The paper describes a new mathematical method for analyzing amplifier transients. The method is used to synthesize multi-stage systems according to various signal-distortion requirements. Normalized transient parameters and expansions based upon Hermitian polynomials are used.

Smoothing Filters For Low-Power Rectifiers. L. L. Dekabrun. "Radiotek," Apr., 1957, 6 pp. A specific method is given for computing Pi-filter elements; the method can be widely applied in designing filters for low-power sources.

Simultaneous Oscillation At Two Frequencies In A Self-Excited Oscillator Incorporating Self Bias. G. M. Utkin. "Radiotek," Apr., 1957, 3 pp. The paper examines the operation of a self-excited oscillator with grid-leak self-bias. When an oscillator with a double tuned circuit has a low-inertia grid-leak circuit it is possible to obtain stable oscillations at two different frequencies (both at multiple frequencies and at asynchronous frequencies).

Frequency Metering By Means Of Signal Time Delay. A. I. Danilenko. "Radiotek," May, 1957, 6 pp. The paper analyzes a method of frequency measurement by means of signal time delay. It is determined that the phase-difference method can be applied to obtain the phase characteristics of delay lines, for obtaining the time delay of a line as a function of frequency, for determining the temperature coefficients of the lines, etc.

Circuits For Shaping Pulses From A Sinusoidal Voltage When A Low-Voltage Supply Is Used. V. I. Zabavin. "Radiotek," May, 1957, 5 pp. An analysis is made of pulse-shaping circuits which have a number of advantages over multivibrator and trigger circuits. The proposed circuits are designed in three variants: vacuum tube circuits combined with transistors, and purely transistor circuits.

A Potentiometer-Type Phase-Shifter. A. M. Melik-Shakhnazarov. "Radiotek," May, 1957, 2 pp. A potentiometer-type phase-shifter is designed using RC elements and sine-cosine potentiometers. The phase-shifter provides smooth phase control over 360 degrees.

Special Features Of Designing Radio Transmitters In Which The Plate Circuits Of The Tubes Are Supplied From Constant-Current Sources With A High Internal Impedance. N. I. Shtein. "Radiotek," May, 1957, 8 pp. The paper examines the possibilities for the optimum utilization of constant-current sources with a relatively high internal impedance (for example, dynamotors, krypton rectifiers, etc.). An analysis is made of the conditions under which it is possible to guarantee the delivery of maximum power from the electronic tubes to the tank circuit, and appropriate recommendations are given with regard to oscillator design.

A Method For Analyzing Amplifier Circuits In The Transient-Time Domain By Means Of Third-Degree Characteristic Equations. E. N. Mokhov. "Radiotek," May, 1957, 8 pp. A

method is given which eliminates a number of the basic causes for the great difficulty and inefficiency which is involved in analyzing amplifier circuits in the transient-time domain by means of third-degree characteristic equations. As an example, the paper cites the results of an investigation of series-inductance compensating networks in the grid circuit.

Balanced Concentrated-Selection Filters. S. G. Kalikhman. "Radiotek," June, 1957, 8 pp. The paper proposes a circuit and a method of analysis for balanced concentrated-selection filters with any arbitrary number of sections. Quantitative relationships are derived for computing the elements of such filters. Experimental data is cited which verifies the fact that the application of such filters in radio receivers makes possible a substantial improvement in the selectivity with respect to an adjacent channel.

The Utilization Of Step Filters For Correcting The Transient Response Of Linear Systems. V. I. Gukov. "Radiotek," July, 1957, 12 pp. The paper examines analytical and graphical methods for designing linear corrective networks—step filters—which are based upon the utilization of lag elements. The cascade connection of a step filter and a linear system which can be described by an equation of arbitrary order makes it possible to eliminate transients within a specified time interval.

The Design Of Circuits For Shaping Rectangular Pulses. P. N. Matkhanov. "Radiotek," July, 1957, 7 pp. Design computations are given for a circuit which shapes rectangular pulses. The computation is based upon synthesizing the circuits from time functions. An approximation is made in the complex frequency domain by representing hyperbolic functions in terms of the first factors of infinite products. The method of computation is simple and takes the load capacitance into account. Results of an experimental investigation of the shaping circuit are given.

Transient Response Of "Comb" Filters. M. I. Finkelshstein. "Radiotek," July, 1957, 7 pp. The paper examines the effect of a unit-step harmonic voltage upon a system of "comb" filters. A method is proposed for determining the shape of the transient and the time required for a steady state to be reached. It is proven that the initial slope of the transient is directly proportional to the number of filters.

Certain Problems Of Applying Fourpole Theory To The Design Of Transistor Circuits. Kh. I. Chernen. "Radiotek," July, 1957, 10 pp. Relationships are derived which simplify the utilization of the derivations and formulas of general fourpole theory in the design of transistor circuits. Specific examples of design procedure and computation are given.

The Calculation Of The Overvoltage Regime Of The Vacuum Tube Oscillator. U. V. Bogolovsky. "Radiotek," Aug., 1957, 7 pp. Analyzing the methods of calculation of the overvoltage condition of the vacuum tube oscillator, based on the use of calculating graphic charts prepared for the discrete values of a low-angle cut-off $\theta_0 = 75^\circ, 80^\circ,$ and 90° . Given parameters are oscillating power P_{av} or the direct component of the plate current I_{a0} , intensity of condition p , and low-angle cut-off θ_0 . The results of calculation using graphic charts is compared with calculation by the graph-analysis method.

Single-Stage Circuits For Multiplying And Dividing The Frequency Of A Quartz Crystal. G. M. Utkin. "Radiotek," Sep., 1957, 8 pp. Double-tuned self-excited oscillators with multiple frequencies are analyzed from the point of view of using them for multiplying or dividing the frequency of a quartz crystal. It is shown that the equations of such oscillators make it possible to assume that the synchronism zone depends upon the parameters of the oscillator and upon the frequency multiple. Such circuits can be practically utilized up to frequency multiples of the order of 15. Experimental data is provided.

The Design Of Grounded-Grid Oscillators. by E. E. Korchagina, G. M. Utkin. "Radiotek," Nov., 1957, 10 pp. The paper analyzes the problem of selecting the optimum mode of operation for amplifiers and frequency multipliers in grounded-grid circuits. It is shown that when the magnitude of the resonant impedance of the tank circuit is limited the energy relationships in the plate circuit must consider the power dissipated by the preceding stage of the transmitter. Recommendations are given for selecting the cutoff angle and the height of the plate current pulse in amplifiers and frequency multipliers when the power gain of the stage is considered.

On Improving The Properties Of Iterative RC Networks. by I. A. Zakharia. "Radiotek," Nov., 1957, 6 pp. The paper examines the possibility of improving the properties of iterative RC networks when the networks overlap. Comparative graphs are given for three-section and four-section networks with shunt resistors. Formulas are given for computing the characteristics of a three-section iterative RC network when individual resistances are varied and when elements of the network are varied progressively.

Certain Optimum Relationships In An Ideal Magnetic Amplifier That Is Controlled By An AC Signal. K. S. Volkhov. "Avto. i Tel.," Jan., 1958, 10 pp. The performance of an ideal saturating magnetic amplifier with a resistive load is analyzed. Optimum relationships are derived for amplifiers designed to operate both at one fixed frequency and over a specified frequency band while yielding maximum gain. The relationship between the coefficient of frequency distortion and the time constant is established.

A Transistorized DC Converter. G. S. Tsykin. "Radiotek," Dec., 1957, 7 pp. Analysis of methods for converting DC current at one voltage into DC current at another voltage; these methods are capable of producing the power outputs required for the supply of electronic equipment. A transistorized triode power amplifier circuit is proposed for this purpose. The amplifier is designed to operate as a keyer and to be controlled from a master oscillator.

The Simplest Passive Network For Generating A Linearly Varying Voltage. P. N. Matkhanov. "Radiotek," Dec., 1957, 4 pp. Formulas are derived for the simplest third-order circuit for generating a linearly varying voltage; this is achieved on the basis of synthesizing the circuit according to specified time responses. An approximation is made in the time domain. A generating circuit is derived which guarantees a sufficiently efficient utilization of the source voltage for a small deviation of the response from a linear law.

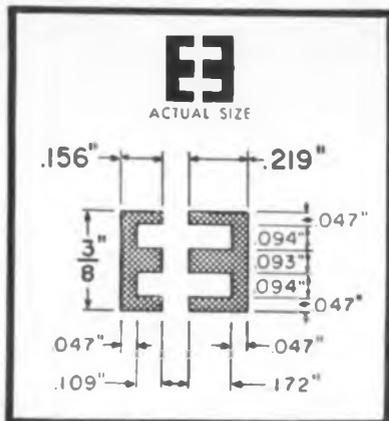
Wide-Band Amplifiers With Distributed Amplification. L. Z. Bobrovnikov. "Radiotek," Dec., 1957, 8 pp. The paper examines certain problems that are involved in the realization of wide-band amplifiers which operate on the principle of distributed amplification. A design method is given for such amplifiers. Circuits are proposed for triode distributed amplification. Experimental results are cited.



COMMUNICATIONS

Information Criteria For Evaluating Telemetering Systems. M. M. Bakhmet'ev, R. R. Vasil'ev. "Avto. i Tel.," Apr., 1957, 5 pp. The paper proposes information criteria for determining the performance quality of telemetering systems.

Noise Stability Of Frequency-Modulation Systems. V. A. Kashirin. "Avto. i Tel.," June, 1957, 7 pp. The ideal noise stability of multi-



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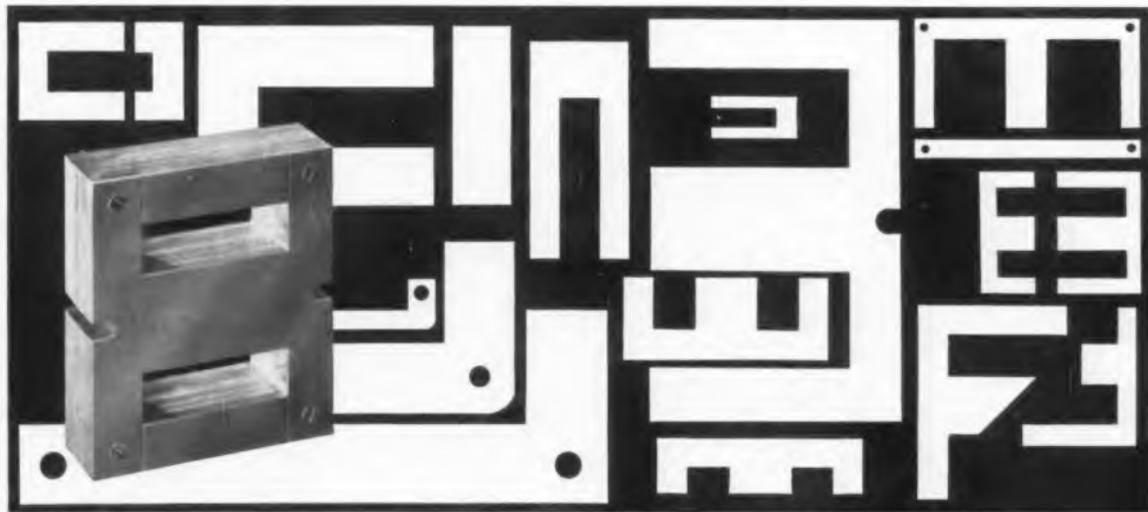
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channel frequency telemetering systems is examined for the case of weak fluctuating noise. A comparison is made between the noise stability of frequency-division and time-division channels.

A Pulse-Code Modulation Telemetering System, by G. V. Burdenkov, "Avto. i Tel.," Jan., 1958, 9 pp. High speed pulse-code telemetering devices are considered. It is demonstrated that telemetering circuits can be designed on the basis of combining magnetic elements with a rectangular hysteresis loop with transistors and crystal diodes. The basic parameters of the unit are derived and its telemetering accuracy is evaluated.

Certain Characteristics Of The Radiation Emitted From Cosmic Objects, A. D. Kusmin, "Radiotek," Jan., 1957, 9 pp. A brief survey is made of those basic characteristics of the radiation from cosmic objects which are of interest with regard to radio-engineering applications.

Frequency Feedback in FM Receivers, L. Ia. Kantor, "Radiotek," Jan., 1957, 5 pp. The paper indicates the necessity of retaining the limiter in an FM receiver with frequency feedback. The pass band of the i-f amplifier in such a receiver is determined in such a manner as to insure the required stability and the specified distortion. The concept of the optimum frequency-feedback factor is introduced.

A Method for Raising the Interference Rejection of Autocorrelational Pulse Signals Reception, by M. I. Karnovsky and V. I. Chai-kovsky, "Radiotek," Feb., 1957, 6 pp. The paper examines the interference rejection of a complex autocorrelational receiving system. It is shown that the proposed system has an increased interference rejection in comparison to an ordinary autocorrelational receiving system. A thorough mathematical and graphical analysis is provided.

The Effect of Fluctuations Upon a Phase Detector, by V. I. Tikhonov and I. N. Amiantov, "Radiotek," Feb., 1957, 12 pp. The paper examines the problem of the errors which appear in a phase detector due to fluctuating interference. Approximate formulas are derived for the mean value of the voltage and the correlation function of the fluctuations across the detector load.

The Statistical Properties Of Signals And Interference In Two-Channel Phase-Displacement Systems, V. V. Tsvetnov, "Radiotek," May, 1957, 18 pp. An analysis of the statistical properties of sinusoidal signals and Gaussian interference is made for two-channel phase-displacement systems. The paper derives the distribution law governing the amplitudes and phase differences, and examines the statistical phase characteristics for various cases.

Experimental Investigation Of A Method Of Optimum Amplitude-Phase Modulation, S. I. Tetel'baum and Ju. G. Grinevich, "Radiotek," May, 1957, 6 pp. The paper provides the results of an experimental verification of the basic postulates which constitute the mathematical theory of optimum amplitude-phase modulation. Circuit diagrams are provided and quantitative comparisons are made.

The Grouping of Distortion Signals in Short-Wave Radiotelegraphy, V. M. Rozov, "Radiotek," June, 1957, 10 pp. Existing concepts concerning the causes of distorted symbols during the reception of short-wave radiotelegraph messages of great length are used to evaluate the average values (per unit time) for the number of groups of distorted symbols and the average duration of a single group.

The Problem of the Relationship Between the Rate of Transmitting Intelligence and the Interference Rejection in a Communications System, E. L. Blokh, "Radiotek," June, 1957, 12 pp. Geometric methods of analysis are used to study the relationship between the rate of transmitting intelligence and the interference rejection of a communications system for

codes which correspond to the simplest and the densest distributions of signal points.

The Mechanism By Which Phase Distortion Arises When One Side-Band Is Partially Suppressed, A. B. Polonskii, "Radiotek," Sept., 1957, 9 pp. It is demonstrated that the phase distortion which arises when one side-band is partially suppressed is basically due to the fact that the carrier phase shift which arises in a single-side-band receiver leads to a displacement of all the modulating frequencies (which are transmitted by one side-band) through the same phase angle over which the carrier is shifted. Transient response is computed for a single-side-band receiver which has phase distortion.

Evaluating the Transmission Capabilities of a Communications Channel Whose Parameters Are Random Time Functions, I. A. Ofseovich, M. S. Pinsker, "Radiotek," Oct., 1957, 7 pp. The paper derives formulas for computing the transmission capability of a channel whose parameters are random time functions. The formulas make it possible to compute the transmission capability for several different types of actual channels. Although the causes for the variation in the channel properties may differ, their effect upon the transmitted signal can in most cases be analyzed by assuming that the signal is modulated by some random time function. Such an approach also reflects the physical difference between ordinary channel noise and distortion which is caused by the parameter effect in the channel.

On the Correlation of Fading Effects in Adjacent Sectors of Radio-Relay Communication Lines, Ju. B. Sinder, A. S. Nemirovskii, "Radiotek," Nov., 1957, 8 pp. Analysis of the factors which affect the probability of radio-relay line failure due to fading effects. Certain problems of the statistical analysis of fading effects in radio-relay lines with a large number of sectors are discussed. Results are given of the analysis of data obtained from observing the operation of the Moscow-Gorkii radio-relay line during 1954-1956.

A Pulse-Code Modulation Telemetering System, G. V. Burdenkov, "Avto. i Tel.," Jan., 1958, 9 pp. The paper analyzes high speed pulse-code telemetering devices. The possibility of designing telemetering systems based on magnetic elements with a rectangular hysteresis loop, and transistors and crystal diodes is established. The basic parameters of the unit are specified, and the telemetering accuracy is given.

Probability of the Reception of a Signal by a Receiver Which Has a Finite Restoration Time, by A. M. Vasilev, "Radiotek," Feb., 1957, 11 pp. An equation is derived which determines the probability density of receiving a signal at an instant of time in a receiver with a finite restoration time. It is assumed that the probability density of the appearance of the signal at the receiver input is given. The general solution is found for the equation, as well as simpler solutions for cases which are of practical interest.



COMPONENTS

Criteria for Evaluating Electromagnetic Relays, B. S. Sotskov, "Avto. i Tel.," Mar., 1957, 6 pp. The paper deals with a method for evaluating the basic properties of electromagnetic relays. This method makes possible a rational selection of a relay on the basis of its specified operating conditions.

The Special Features of Designing Multistage Magnetic Amplifiers, N. P. Vasil'eva, M. A.

Boiarchenkov, "Avto. i Tel.," July, 1957, 9 pp. Certain special features of designing low-power magnetic amplifiers are discussed. Concepts are developed with regard to the selection of circuits, the number of stages and the determination of the design parameters of multistage amplifiers on the basis of the ideas governing the achievement of a specified speed of response.

Electronic Analog of a Wire Potentiometer, M. A. Shaidman, "Avto. i Tel.," July, 1957, 9 pp. The paper describes and analyzes an analog for a wire potentiometer which is a transmitter element in an automatic controller. The analog takes into account the backlash of the slider and the stepped nature of the potentiometer winding.

Dynamic Characteristics of Cores with a Rectangular Static Hysteresis Loop (The Effect of Eddy Currents), M. A. Rozenblat, "Avto. i Tel.," Jan., 1958, 10 pp. The author analyzes the effect of eddy currents on the shape of the dynamic hysteresis loop, the magnitude of the differential magnetic permeability and the magnitude of the dynamic coercive force of cores with a rectangular static hysteresis loop. Analytical expressions are derived for the dynamic hysteresis loop when the induction varies sinusoidally, when the field intensity varies sinusoidally, and when the core is remagnetized by means of a dc voltage. The computed results are experimentally verified.

The Condition Governing Maximum Precision for Ferroresonant Voltage Regulators, by B. Z. Zilberman, "Radiotek," Feb., 1957, 1 p. On the basis of analyzing the fundamental harmonic of the non-sinusoidal quantities the condition for the maximum stabilization precision is given in the form of a relationship involving dimensionless parameters.

A New Type Of Wide-Band Transformer, Ju. M. Lebedev-Krasin, "Radiotek," Sept., 1957, 9 pp. A new type of wide-band transformer for the 10^3 - 10^6 cps frequency band is described. The transformer can be used both in units designed for the simultaneous passage of signals with a wide frequency band, and for tuned amplifiers with a tuned frequency which can be smoothly adjusted over wide limits. In the latter case the transformer is specially constructed so that it can vary the tuned frequency inductively by means of electronic control.

The Minimum Volume of a Pulse Transformer, Ia. S. Itskhoki, "Radiotek," Oct., 1957, 18 pp. A new method is proposed for designing power pulse transformers with a minimum volume of metal (iron and copper). The paper demonstrates that it is possible to construct transformers in which the volume of metal comprises approximately 0.5 grams per watt of average transformer power.

Relay Phenomena in Toroid Circuits Containing Magnetic Cores With A Rectangular Hysteresis Loop, V. A. Zhorikhshvili, K. G. Mitiushkin, "Avto. i Tel.," Jan., 1958, 11 pp. The paper describes relay phenomena which occur in magnetic cores that have a rectangular hysteresis loop and are encompassed by positive feedback. An analysis is made of the static characteristics and of the nature of the transient responses which are caused by single or repeated perturbations; transients due to pulse noise are also analyzed.

Dynamic Characteristics Of Cores With A Rectangular Static Hysteresis Loop (The Effect of Eddy Currents), M. A. Rozenblat, "Avto. i Tel.," Jan., 1958, 10 pp. Analysis of the effect of eddy currents on the shape of the dynamic hysteresis loop, on the magnitude of the differential magnetic permeability, and on the magnitude of the dynamic coercive force of cores with a rectangular static hysteresis loop. Analytical expressions are derived for the dynamic hysteresis loop for sinusoidal variation of the induction or the field intensity and for a core which is magnetized by a DC voltage. Experimental verification is cited.

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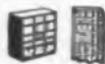
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A Method for Synthesizing Computer and Controller Switching Circuits, by G. N. Poyarov. "Avto. i Tel.," Feb., 1957. 18 pp. The paper develops a method for synthesizing switching circuits designed for computer and controller systems. These circuits have k outputs with one input or k inputs with one output, while any arbitrary conductivity conditions may exist between the inputs and outputs. The method permits the design of a circuit by means of a single-valued regular process utilizing bridge connections and the combination of circuits involving different pairs of poles. The method offers a quick way of synthesizing a relatively economical (in terms of the number of contacts) circuit. Six examples are given. The supplement discusses the extension of the method to include contactless switching circuits.

Computing the Correlation Function of a Stationary Random Process According to Experimental Data, B. N. Kötin. "Avto. i Tel.," Mar., 1957. 22 pp. The paper examines the errors involved in computing the correlation function of a stationary random process on the basis of experimental data; these errors arise due to the finite observation time. The evaluation of the errors is performed in a manner which makes it possible to use the existing forms of the autocorrelation function. Various methods of computing its approximate values from experimental data are analyzed. The formulas derived make it possible to obtain the mean-square error of computing the correlation function as a function of its argument on the basis of experimental data.

Transients in a Transistor Switching Circuit, N. I. Brodovich. "Avto. i Tel.," Mar., 1957. 7 pp. The paper examines transients in a switching circuit with a common base; the circuit is designed with one point-contact transistor. Expressions are derived for the currents, and current-variation graphs are plotted for a typical circuit with various transistor parameters in the active region of transistor operation when the circuit is subjected to a rectangular voltage pulse which throws the transistor into the "on" state. The performance rate of the circuit is evaluated, and the main requirements are formulated for point-contact transistors that are destined for high-speed switching circuits.

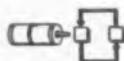
Maintainability Computation for the Operational Reliability of Systems Containing a Large Number of Elements, G. V. Drushinin. "Avto. i Tel.," July, 1957. 3 pp. Basic and generalized mathematical approach to the analysis of the above problem. Factors governing individual elements, statistical reliability under various conditions, methods of failure of individual elements and random factors are all taken into account.

Conditionally-Stable Controlled Systems (a Certain Class of Optimum Control Systems), A. M. Letov. "Avto. i Tel.," July, 1957. 14 pp. The paper examines a rigorous linear automatic control system which is asymptotically stable with respect to the obvious solution $X = 0$ and whose state can be described by the vector $x = x(x_0, t)$. It is assumed that the parameters of the system are fixed in accordance with some existing concept of an optimum linear system. Let t^* be the conditional damping time of the transient response. It is asserted that there is a value t^* ($0 < t^* < L$) for which a change in the speed of the actuating element will convert the original system into a different one which is conditionally stable in such a manner that its transient response is damped on the first swing and its conditional damping time is substantially less than t^* . A method of control is proposed by means of which the instant of speed-change t^* is determined as a function of the initial state and the parameters

of the system. This computation is performed by means of a special computing device.

Code Rings and Their Utilization in Remote-Control Devices, A. N. Radchenko. "Avto. i Tel.," Aug., 1957. 8 pp. A new method is proposed for representing a complete set of codes; this method makes it possible to present the same information in a more compact form. Principles of ring coding are elaborated which make it possible to considerably simplify existing pulse-code devices for telemetering and remote control.

On Transient Responses in Transistor Pulse Systems, O. G. Iagodin. "Radiotek.," Jan., 1957. 15 pp. The paper examines a method of analyzing transient responses in transistor pulse systems. The method is based upon representing the dynamic properties of the transistor by means of an approximate equivalent circuit and linearizing the nonlinear transistor characteristics. Transient responses are examined in circuits for a single-ended relaxation oscillator and a switching circuit operating with an unsaturated transistor.



CONTROLS

Two-Channel Automatic Control Systems with Antisymmetrical Coupling, by A. A. Krisovsky. "Avto. i Tel.," Feb., 1957. 10 pp. An analysis is made of linear systems consisting of two identical channels and having antisymmetrical cross-coupling. Transfer functions with complex coefficients are introduced. The paper analyzes the possibilities of using various kinds of antisymmetrical coupling with regard to raising the stability and critical gain of the system. It is also demonstrated that a wider choice is available in the synthesis of corrective networks for two-channel systems (as compared to single-channel systems); the introduction of cross-coupling can assure a considerable extension of the regions of stability.

Correction of Pulse Control Systems, by Ia. Z. Tsypkin. "Avto. i Tel.," Feb., 1957. 15 pp. The paper examines continuous- and pulse-correction methods for pulse systems. A method is given for computing the corrective elements. An analysis is given of the possibilities of applying digital computers in the capacity of a corrective element.

The Operational Stability of a Two-Phase Servomotor with Negative Velocity Feedback, by E. I. Slepukhin. "Avto. i Tel.," Feb., 1957. 11 pp. The paper examines the stability conditions governing the operation of a two-phase servomotor which has negative velocity feedback. The problem is analyzed for the general asymmetrical case when the machine has any arbitrary parameters and the supply system is also arbitrary. The stability criteria are established for the operation of the motor. The feedback parameters are determined according to the parameters of the mechanical characteristic at the "start" point. The design equations are expressed in terms of so-called generalized parameters; the computed critical slips for the smallest circuits of the motor windings and the impedance ratios of the primary and secondary circuits. The theoretical conclusions are experimentally verified.

Decreasing the Lag of Magnetic Amplifiers by Introducing Derivative Feedback, by O. I. Aven. "Avto. i Tel.," Feb., 1957. 8 pp. The paper examines various methods for decreasing the lag in magnetic amplifiers by introducing derivative feedback. A simplified method is proposed for determining the feedback parameters. The effect of accelerating circuits upon the magnitude of the gain of the magnetic amplifier is evaluated. Experimental results are cited.

Automatic Synthesis of Relay Circuits, F. Syboda. "Avto. i Tel.," Mar., 1957. 16 pp. The paper describes a semi-automatic experimental machine for the synthesis and analysis of single-cycle relay systems. The machine was developed by the Institute of Mathematical Machines of the Czechoslovak Academy of Sciences. The machine operates with indeterminate switching functions. The use of this machine together with the combinatorial method of synthesis makes it possible to synthesize circuits approximately 10 times faster than normally.

Chart for Finding the Real Frequency Characteristic from the Logarithmic Characteristics of an Open Automatic Control System, Iu. M. Atapov. "Avto. i Tel.," Mar., 1957. 2 pp. In plotting the transient response of an automatic control system by the method of trapezoidal or triangular characteristics it is first necessary to plot the graph of the real frequency phase of the system. The proposed method makes it possible to plot this characteristic if the graphs of the amplitude-frequency and phase-frequency characteristics of the system are known.

Analysis of the Simplest Relay Servo-System, G. V. Gerken-Gubanov. "Avto. i Tel.," Mar., 1957. 6 pp. The paper examines the movement of a relay servo-system in compensating the initial mismatch in the case where the system has a dead band, a return coefficient, and a relay with closure lag and release lag.

Simplified Computations of Magnetic Amplifiers with Cores Made from Iron-Nickel Alloys, N. A. Kalushnikov. "Avto. i Tel.," Mar., 1957. 5 pp. A simple and reliable method is given for designing medium-power magnetic amplifiers with iron-nickel alloy cores. The method is applicable for those cases in which the designer is not required to solve optimum problems.

An Analytical Expression for the Static Characteristic of the Detector Unit of a Saturable-Reactor Controller, E. Ia. Jakubaitis. "Avto. i Tel.," Mar., 1957. 6 pp. An analytical expression is obtained for the static characteristic of the detector unit in a saturable-reactor controller on the basis of a sectionally-linear approximation to the magnetization curve of the saturable reactor and the volt-ampere characteristic of the semiconductor rectifier.

Improving the Dynamic Properties of Automatic Control Systems by Means of Aperiodic Feedback Loops, S. Ia. Bercin. "Avto. i Tel.," Mar., 1957. 11 pp. The paper examines the application of aperiodic feedback loops for improving the dynamic properties of automatic control systems. Practical methods for obtaining aperiodic feedback loops are analyzed. The practicability of using aperiodic feedback loops is verified experimentally.

A Method For Determining The Optimum Characteristics Of One Particular Class Of Self-Adaptive Control Systems, A. M. Batkov and V. V. Solodovnikov. "Avto. i Tel.," Apr., 1957. 15 pp. The paper deals with the problem of optimum filtration (in the sense of the minimum sum of the squares of the dynamic and mean-square errors) for a class of linear systems having variable parameters in the presence of stationary random inputs. A method is proposed for realizing the resulting optimum systems in the form of self-adaptive ones, depending upon the input signal characteristics.

Stabilization Of Control Systems By Means Of A Special Signal, R. Oldenburger. "Avto. i Tel.," Apr., 1957. 3 pp. Linear automatic control systems with two or more dominant lags can be stabilized by the introduction of noise or a signal of sufficiently high frequency, provided that the hunt of the system is not excessive. The amplitude of the signal must be great enough to run a bounded element (such as a governor pilot valve) through its full stroke. Single- or multiple-lag systems with optimum non-linear controls can



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also be stabilized by introducing an appropriate signal. Unless the stabilizing signal is very great the response to the larger disturbances will be negligibly affected.

Pulse-Correction Of Control Relay Systems. N. A. Korolev. "Avto. i Tel.," Apr., 1957, 14 pp. The paper describes a method of pulse-correction that increases the frequency at which self-oscillations will occur in control relay systems. Design computations are made for certain specific stabilizing circuits.

The Synthesis Of Linear Servosystems On The Basis Of The Criterion Of The Minimum Practical Limit Of The Reproduction Error. K. I. Kurakin. "Avto. i Tel.," Apr., 1957, 18 pp. The optimum transfer function of a servosystem is defined for the case when the reproduced input quantity is specified as a slowly varying time function and the interference is uniformly distributed over the entire spectrum of the working frequencies. The synthesis of the servosystem is based upon the utilization of the criterion of the minimum practical limit of the tracking error. Methods are given for realizing the optimum transfer function of the servosystem by means of DC corrective networks.

A Decision Amplifier Without Stabilized Supplies. by V. M. Evseev. "Avto. i Tel.," Apr., 1957, 10 pp. The paper examines a new circuit for a decision amplifier, which does not require stabilized supplies. The results of both a theoretical and experimental investigation of the circuit are provided.

Improving the Stabilization of Automatic Control Systems by Means of a Memory Unit When the System Employs a Servodrive of Limited Velocity. V. A. Kotelnikov. "Avto. i Tel.," Apr., 1957, 15 pp. The paper examines the problems of designing a stable automatic control system under conditions where the velocity of the actuating mechanism is limited and the initial deviations are unlimited in size. A memory and switching unit is analyzed which satisfies the indicated requirements when the controller employs "rigid" feedback. The stability boundaries are found for such systems, and the allowable values of the controller parameters are found on the basis of these boundaries. Simulation is used to determine the transient responses of the automatic control system when deviations occur which cause the linear velocity range of the actuating mechanism to be exceeded.

Analytical Investigation of the Stability of Motion of an Electromechanical Transducing Unit. by I. M. Makarov. "Avto. i Tel.," Apr., 1957, 9 pp. The paper provides a description of the principle operation governing an electromechanical transducing unit which is used in simulators. The equations of motion for the unit are derived, and the stability of its motion is investigated.

Certain Problems Involved in the Design of Multichannel Automatic Control Systems. V. P. Kazakov. "Avto. i Tel.," Apr., 1957, 12 pp. The paper examines the circuits and design methods which can be used to construct the fundamental units of multichannel (multi-point) automatic control systems that employ time division of the channels. These design methods permit the use of contactless circuit elements.

A Multiplication-Division Unit Based upon Thyrite Resistors. A. A. Maslov. "Avto. i Tel.," Apr., 1957, 13 pp. The paper analyzes a new analytical method for determining the parameters of squaring elements which are based upon thyrite resistors. A new circuit for a multiplication unit using thyrite squaring elements is described; this circuit requires only two decision amplifiers. The results of an experimental investigation of the multiplication circuit are given.

On the Theory of a Half-Wave Magnetic Amplifier.—I. R. A. Lipman and I. R. Noyevitskii. "Avto. i Tel.," Apr., 1957, 22 pp. The available analyses of the Ramey circuit are

further extended. The variation of the current in the control circuit is analyzed, and the region of applicability of the formulas derived for the load current and the voltage gain is defined; the problem of power gain is also thoroughly analyzed. Transient and steady-state conditions are investigated, and all of the theoretical conclusions are experimentally verified.

Optimum Transient Response In Saturating Power Systems. E. A. Rozenman. "Avto. i Tel.," June, 1957, 16 pp. The paper solves the problem of the form of the most rapid transient in a saturating power system. It is demonstrated that the optimum law governing the current variation in the actuating motor is close to being linear for large heating time-constants. A family of isochrone areas is plotted and a comparison is made between the optimum response in the above case and the optimum response for current saturation. It is proven that the use of the optimum law makes possible a considerable decrease in the transient response time for the same power output.

Determining The Coefficients Of The Transfer Functions For Linearized Automatic Control Sections and Systems. M. P. Simota. "Avto. i Tel.," June, 1957, 15 pp. A method is developed for determining the coefficients of the transfer functions from experimental curves of the transient responses of linearized sections and systems. A method is given for applying this analysis to the approximation of complex transfer functions by simpler ones. Examples are given to illustrate the method.

Modulation of Radioactive Radiation in Automatic Control Units. D. I. Ageikin, L. V. Meltzer, N. N. Shumilovskiy. "Avto. i Tel.," July, 1957, 3 pp. Various methods of modulating radioactive radiation are examined for the purposes of application in automatic control units. Mechanical and field modulation are analyzed in some detail.

Automatic Liquid-Level Control by the Phase Method Using Ultra-sonic Waves. V. B. Brodskiy. "Avto. i Tel.," July, 1957, 13 pp. The theory of the method is given, and it is shown that the utilization of conversion transformers and dielectric fillers in the metering line makes it possible to measure liquid level over a range which is considerably greater (or less) than the range over which the standing-wave minimum is shifted. The errors of the method are examined and the limits of its applicability are evaluated.

An Approximate Definition of the Process Involved in Establishing Self-Oscillations in Certain Nonlinear Automatic Control Systems. A. A. Voronov. "Avto. i Tel.," July, 1957, 9 pp. The paper examines a method for the approximate definition of the process involved in the variation of the amplitude and phase of the fundamental self-oscillations in certain nonlinear systems for the case where this variation is sufficiently slow. A method is given for approximating the higher-order equation by means of two nonlinear first-order equations which are similar to equations which have been derived for second-order systems. A sectionally-linear approximation of a function obtained during the process of solution is used to obtain an approximate solution of the problem in a simple manner. The method is often satisfactory even in cases when the oscillations are practically damped out after 1-3 periods.

Certain Methods for Stabilizing and Controlling Small Amounts of Working-Liquid Consumption in Hydraulic Automatic Systems. I. N. Kichin. "Avto. i Tel.," Aug., 1957, 14 pp. The paper analyzes the phenomenon of obliteration (obstruction) of small flow cross-sections in hydraulic automatic systems and proposes mechanical hydraulic methods for eliminating this phenomenon. The effectiveness of the indicated methods is established, and it is shown that these methods facilitate the attainment of controllable stable consumptions in the restrictor units of hydraulic automatic systems.

A Relay Position System of Automatic Control with a Compound Servomotor. V. V. Gorskoy. "Avto. i Tel.," Sep., 1957, 6 pp. A relay position system of automatic control is analyzed in which the servomotor has a compound system of excitation. Formulas are deduced for the determination of the rotation speed and angle of the output shaft system. The transient regimes of the machine are analyzed with an account of the results of saturating it with a magnetic circuit. The article determines the type of nonlinear speed feedback during which the minimum insensitive zone and absence of overshooting is reached. A description of a device for the functional transformation of the voltage speed feedback and its circuit diagram are given. This relay system, in the author's opinion, is close to the optimum one.

The Use of Radioactive Radiation in the Installations of Automatic Control. Yu. V. Gushchin, L. W. Meltzer, M. I. Tolokanov, M. N. Shumilovskiy. "Avto. i Tel.," Sep., 1957, 13 pp. The basic methods and trends of using radioactive radiation in automatic control devices are considered. The article gives brief characteristics of the sources and receivers of radiation used in such devices. Examples of practical application.

An Analysis of the Movement of a Loaded Hydraulic Servomotor with Feedback. V. A. Khokhlov. "Avto. i Tel.," Sep., 1957, 4 pp. An analysis is given of the motion of a loaded hydraulic servomotor with a rigid feedback while its piston is effected by constant position and inertia loads. It is shown that the cessation of an uninterrupted liquid flow, which determines the movement of the piston, is correct only if the inert mass of the load is not higher than the critical one. The equation for calculating critical mass is given.

Concerning the Influence of Some Non-Linear Characteristics of Elements of P. I. Controller on the Dynamic Characteristics of an Automatic Control System. E. K. Krug, O. M. Minina. "Avto. i Tel.," Oct., 1957, 6 pp. An automatic control system, used as an example, contains the simplest object of control and a P. I. controller. It is shown how transient form is influenced by limited motion of the control device and the non-linear characteristics in control elements which realize the proportion and integral terms of the law of control.

A Method for Obtaining Complicated Laws of Regulation with the Use of Only an Error Signal or Regulating Coordinate and Its First Derivative. S. W. Emelyanov. "Avto. i Tel.," Oct., 1957, 6 pp. The method of obtaining different laws of control using only an error signal and its first derivative. It is shown that the effectiveness of such correction in linear control systems will be the same at the various scale measurements of the magnitude of the disturbance influence. The article gives one of the possible schemes for the realization of a nonlinear corrector, carrying out the various laws of control.

Optimizing-Control Methods. I. S. Morozanov. "Avto. i Tel.," Nov., 1957, 18 pp. The basic methods of optimization-control are analyzed. Systems are classified according to the method by means of which the optimum is sought. Optimized relay systems are used as an example to demonstrate the special features of computing self-oscillatory modes. Brief recommendations are given for the practical utilization of such systems.

On Certain Features Of The Switching Operations Which Occur In Nonlinear Automatic Control Systems That Have A Nonlinear Element With A Sectionally-Smooth Characteristic. M. A. Aizerman, F. R. Gantmakher. "Avto. i Tel.," Nov., 1957, 12 pp. Automatic control systems are examined in which the processes can be described by equations. The following cases are examined: (1) switching when the characteristics are composed of infinite curves; (2) switching when the characteristic is composed of segments of curves; (3) switching in systems with feedback that

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encompasses the nonlinear element. Certain of the switching processes which are analytically examined are reproduced by means of an electronic simulator.

The Approximate Determination Of Probability Characteristics For The Output Coordinates of Nonlinear Automatic Control Systems. B. G. Dostupov. "Avto. i Tel.," Nov. 1957. 11 pp. A method is given for approximately determining the moments of an integral system of ordinary differential equations according to the specified coupling moments of the random parameters which enter into the equations. The method is based upon utilizing finite segments of power-series expansions (with respect to the random parameters) of the integral of the specified system.

Integral Canonical Representations Of Random Functions And Their Use In Determining Optimum Linear Systems. V. S. Puzachev. "Avto. i Tel.," Nov., 1957. 14 pp. The method is used to determine the optimum linear operator, and a formula is derived for the weighting function of an optimum unidimensional linear system in the case of an infinite sampling interval (a system with an infinite memory) where the sampled random function is the result of the passage of "white noise" through a certain linear system. In particular cases the derived formula yields the well-known Wiener and Bode formulas.

The Synthesis of Multi-Loop Control Systems Which Contain Lag Elements. M. V. Meerov. "Avto. i Tel.," Dec., 1957. 11 pp. The paper examines multi-loop control systems with lag elements and establishes the basic properties of such systems. Methods are given for synthesizing systems which are stable for arbitrarily large gain coefficients in individual loops. The conditions governing autonomy are obtained.

Optimum Transient Response in an Automatic Control System with a Position-Bounded Control Element. E. K. Krug, O. M. Minina. "Avto. i Tel.," Jan., 1958. 16 pp. Optimum transient response curves are derived for automatic control systems with position-bounded control elements when the control objects have various dynamic properties (objects with lag are included). It is shown that it is difficult to achieve optimum transient response with continuous controllers since the characteristics of the nonlinear transducers contained in such controllers depend on the magnitude and point of application of the perturbations and on the initial values of the bounding coordinates. The use of a discrete controller is recommended.

The Relaxation of Sufficient Conditions for Absolute Stability. Vasile-Mikhail Popov. "Avto. i Tel.," Jan., 1958. 7 pp. Investigation of sufficient conditions for absolute stability of an automatic control system with one nonlinearity in the speed characteristic of the servomotor. It is shown that in certain cases these conditions may be relaxed. The three-dimensional case (with the exception of special cases) is treated and the necessary and sufficient conditions are derived.

Concerning an Amplifier with Combined Feedback. L. A. Suslov. "Radiotek.," Mar., 1957. This paper discusses errors and omissions in papers written on the above subject in previous issues (specifically in "An Amplifier with Two-Channel Feedback," by M. M. Aizinov, "Radiotekhnika," Vol. 10, No. 7, 1955). The analysis is both general and fundamental, and some very useful new approaches are developed.

Fast Waves in a Helical Coaxial Line. L. N. Loshakov, E. B. Ol'derozge. "Radiotek.," June, 1957. 6 pp. The paper examines fast waves in a helical coaxial line on the assumption that it is possible to replace the inner conductor of the line (the helix) by an anisotropically-conducting surface. The properties of certain of the lowest types of fast waves are investigated, and the critical frequencies are determined as a function of the geometric parameters of the line.

On Diminishing Nonlinear Distortion By Means Of Feedback. L. Ia. Kantor. "Radiotek.," Sept., 1957. 8 pp. The paper shows that high-frequency nonlinear distortion in feedback amplifiers should be evaluated solely according to the difference-tone coefficient. Formulas are derived for the computation of this coefficient. Methods are proposed for increasing the efficiency of feedback at the higher frequencies. The concept of a system with a "frequency-dependent nonlinearity" is refined, and various distortion indices are compared for such systems.

On The Relaxation Of Sufficient Conditions For Absolute Stability. Vasile-Mikhail Popov. "Avto. i Tel.," Jan., 1958. 7 pp. The paper analyzes sufficient conditions for the absolute stability of an automatic control system with one nonlinearity in the speed characteristic of the servomotor. It is demonstrated that in certain cases these conditions can be relaxed. In particular, the necessary and sufficient conditions are obtained for the three-dimensional case (excluding special cases).

Stability of Nonlinear Control Systems Described by Differential Equations of the 5th and 6th Order. E. N. Rozenwasser. "Avto. i Tel.," Feb., 1958. 13 pp. On the basis of Lurie theorem (1) sufficient conditions of stability of certain control systems described by differential equations of the 5th and 6th order are obtained.

Determination of Parameters of Corrective Devices in Linear Servo-Systems Using Given Generalized Parameters. M. M. Kreimerman. "Avto. i Tel.," Feb., 1958. 13 pp. An analytical method of determining parameters of corrective devices in a linear servo-system using its generalized parameters is described. The paper includes the table of main formula and calculation of parameters of series and parallel corrective devices.

Analytical Formulation of the Synthesis Problem of Corrective Devices in Linear Servo-Systems. V. G. Sezalin. "Avto. i Tel.," Feb., 1958. 14 pp. Analytical formulation of the synthesis problem of corrective devices in linear servo-systems is proposed. The determination of transfer functions of corrective devices is treated using initial equations of the synthesis obtained in paper. The method described is illustrated by an example of solving the synthesis problem.

On Optimum Transient Responses in An Automatic Control System With A Position-Bounded Control Organ. E. K. Krug, O. M. Minina. "Avto. i Tel.," Jan., 1958. 16 pp. Optimum transient response curves are obtained for automatic control systems with position-bounded control organs when objects with various dynamic properties (including objects with lag) are controlled. It is demonstrated that the attainment of optimum transient responses by means of continuous controllers is difficult, since the characteristics of the nonlinear transducers in such controllers depend on the magnitude and point of application of the perturbations and on the initial values of the bounded coordinates. Discrete controllers are therefore recommended.

On Evaluating The Accuracy With Which Linear Follower Systems And Recording Systems Can Reproduce Inputs. V. G. Vasil'ev. "Avto. i Tel.," Jan., 1958. 23 pp. Necessary and sufficient conditions are given for the accurate reproduction of a given class of inputs by a linear reproducing system. In order to define the class of inputs the maximum values (for the particular class) of the modulus and local enlargement index are used.

The Problem Of Synthesizing Linear-Varying-Parameter Dynamic Systems. A. M. Batkov. "Avto. i Tel.," Jan., 1958. 8 pp. The paper develops a method for determining the differential equation of a linear-varying-parameter dynamic system from the given pulse transient function.

On Substantial Defects In The Definitions And Terminology Of Automatic Control. A. I. Vertsaizer, V. M. Iakovlev. "Avto. i Tel.," Jan., 1958. Certain critical remarks are made concerning substantial defects in the definitions and terminology of automatic control. Certain ambiguities in the representation of block diagrams are also discussed.



GENERAL

Certain New Fields of Radio-Electronics. I. S. Dzhitig, M. E. Zhalotinskii. "Radiotek.," Oct., 1957. 9 pp. Survey article on developments in radio-astronomy and radiopetroscopy since World War II.



INDUSTRIAL ELECTRONICS

Speed Regulation of a Three-phase Induction Motor by Means of a Bridge Detector. by V. S. Kulebakin, S. M. Domanitsky. "Avto. i Tel.," Feb., 1957. 8 pp. The paper examines a speed regulation system designed for low-power three-phase induction motors. The system employs a bridge detector. A theoretical analysis of the proposed circuit is given with regard to motors having the usual short-circuited and phase rotors, as well as with regard to a motor with a solid Shaffer rotor.

A Pneumatic Optimizing Controller. Iu. I. Ostrovskii. "Avto. i Tel.," Nov., 1957. 7 pp. The paper describes a pneumatic optimizing controller which was developed in the Institute of Automation And Remote Control of the Acad. Sci. U.S.S.R. Laboratory test data are provided.



MATERIALS

The Magnetic Relay on Ferrites. G. D. Kozlov. "Avto. i Tel.," Sept., 1957. 2 pp. The article considers the magnetic amplifier performing in relay regime—magnetic relay, designed for use on ferrite cores, is examined for multiple variations of current in load relay (100-200). The method of devising such a magnetic relay.

Characteristics of Magnetic Materials for the Core of Magnetic Amplifiers with the Step-up Supply Frequency. G. V. Subbotina. "Avto. i Tel.," Oct., 1957. 3 pp. The characteristics of several Soviet soft-magnetic alloys for the account of magnetic amplifiers is given. The characteristics are taken on tape of 10-20μ thickness on a frequency of from 500 to 20,000 cps.



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International ELECTRONIC SOURCES

lus (A Frequency Characterograph), I. T. Turbovich, A. V. Knipper, V. G. Solomonov. "Radiotek," Jan., 1957, 12 pp. The paper analyzes the principles of designing an instrument for the rapid measurement of frequency responses. The errors of measurement are investigated, and the block diagrams (and circuit diagrams) of certain sections of the instrument are described.

Measurement of the Electric Field Intensity of Cavity Resonators by the Method Involving the Displacement of the Resonant Frequency by Means of a Dielectric Probe. G. N. Rajoport. "Radiotek," Feb., 1957, 8 pp. The paper derives a theorem for the displacement of the resonant frequency of a cavity resonator when the separation boundary between different dielectrics inside the cavity is deformed. This theorem is the basis for the method involving the measurement of the relative electric field intensity according to the displacement of the resonant frequency of the cavity resonator which occurs when a small dielectric probe is introduced into the cavity.

The Error Involved in Determining the Figure-of-Merit (Q) By Means Of A Q-Meter. I. S. Pashov. "Radiotek," Mar., 1957, 4 pp. The paper establishes a hyperbolic error function for the process of determining the Q of a specimen from the readings of the instrument. The computation data are given in the table and in the form of a graph. The proposed formulas make it possible to draw certain general conclusions concerning the accuracy with which Q can be determined by means of a Q-meter.

Certain Basic Relationships In Klystron Power Amplifiers. M. S. Neiman. "Radiotek," Apr., 1957, 10 pp. The paper examines certain basic relationships which govern the design of klystron power amplifiers. Special attention is devoted to the analysis of the limitations which obtain with regard to the pass band of the output resonant system and with regard to the minimum allowable supply voltage. Conditions are examined under which these limitations become less rigid.

Approximate Methods For Computing The Field Intensity Of Ultra-High-Frequency Radiowaves While Taking The Locality Relief Into Account. A. I. Kalinin. "Radiotek," Apr., 1957, 11 pp. Approximate methods are given for computing the field intensity of UHF waves while taking the locality relief into account. Interference formulas are used for computing the field intensity on open routes. The field intensity on semi-open and closed routes is determined by an approximate method which is based upon approximating the obstacles along the routes by means of spheres whose radius is determined by the specific features of the obstacles, and upon an exponential relationship between the attenuation factor and the diffraction angle.

The Utilization Of A Fluctuating Magnetic Current For Solving Problems Which Involve The Radiation From An Antenna Above A Plane Governed By The Leontovich Inhomogeneous Boundary Conditions. O. N. Tereshin. "Radiotek," Apr., 1957, 8 pp. The paper develops a rigorous theoretical method for solving the problem of the radiation from an arbitrary system of extraneous currents above a plane governed by the Leontovich inhomogeneous boundary conditions.

Certain Basic Concepts Which Are Involved In The Theory Of Signals. by V. V. Furduev. "Radiotek," Apr., 1957, 7 pp. Definitions are proposed for several basic concepts of signal theory; these definitions are established on the basis of time averaging. It is made clear that the defined characteristics—the correlation functions and the spectrum obey laws which apply to a broader class of homogeneous signals than the class of processes which are stationary in the probability sense. As an example the paper examines the auto-correlation function and the spectrum of AM-signals. It is proved necessary to differentiate

between the physical and statistical spectrum of the signals.

Equivalent Electric Parameters of Piezoquartz Plates Effecting Harmonics. M. M. Pruzhanski. "Radiotek," Aug., 1957, 6 pp. Giving the description and theory of two independent methods of measuring the equivalent parameter of quartz in harmonics: the first method by replacing quartz in an oscillating circuit and the second, the resonant method of measurement with the aid of a Q-meter. The results of measurement of the parameters of quartz in harmonics are given. Showing that the quality of quartz at first increases with the increase of the ordinal number of harmonic, reaches a maximum, but then begins to diminish.

The Evaluation Of The Noise Stability Of Radio-Reception Methods Which Are Based Upon Averaging Functions Of The Signal And The Noise. N. I. Teplov. "Radiotek," Sept., 1957, 9 pp. The paper performs a generalized analysis and comparative evaluation of radio-reception methods which are based upon averaging functions of a signal and random noise. (The method of multiple repetition, the integral method of reception, the storage method and the method of discrete averaging.) The resulting conclusions and expressions can be used directly for computing the noise stability of specific radio receivers which operate according to the indicated principles of reception.

Transients in a System Consisting of an RP Amplifier and a Detector. L. S. Gutkin, O. S. Chentsova. "Radiotek," Nov., 1957, 12 pp. The paper examines transients in an RF amplifier-diode detector system for several different types of amplifier tank circuits (a tuned tank circuit, a detuned tank circuit, two coupled tank circuits). The analysis is performed by the method of low-frequency equivalents. This method makes it possible to consider the effect of transients in the system of tank circuits supplying the detector when various laws govern the envelope variation of the input signal.

Selecting the Mode of Operation and Computing the Parameters of Electronic Voltage Stabilizers. L. I. Baida, V. K. Zakharov. "Avto. i Tel.," Aug., 1957, 16 pp. An analysis is made of compensated electronic voltage stabilizers. An engineering method is proposed for computing such circuits and for selecting the elements for various sections of the stabilizer. For the purposes of illustration a description is given of the circuits and parameters of two types of currently manufactured voltage stabilizers.

The Evaluation Of The Distribution-Law Parameters Of A Random Function When The A Priori Data Is Limited. Iu. P. Lesnov, L. A. Telkanis. "Avto. i Tel.," Nov., 1957, 14 pp. The method makes it possible to determine the probability-distribution parameters of a random function when limited a priori data is available with respect to the random function. It is demonstrated that the a priori data on the parameters which we are attempting to evaluate can be reduced if it is possible to verify the correctness of the hypotheses which have been made with respect to these parameters. One particular method of performing such a verification is analyzed.

Evaluating the Accuracy to Which Inputs Are Reproduced by Linear Tracking and Recording Systems. V. G. Vasil'ev. "Avto. i Tel.," Jan., 1958, 23 pp. The necessary and sufficient conditions are given for the accurate reproduction of a specified class of inputs by a linear reproducing system. Maximum values of the perturbation modulus and its local growth index are used to define the class of perturbations.

A Method For Measuring Audio Frequencies. A. I. Flurstenberg. "Radiotek," Dec., 1957, 6 pp. The paper describes a method for measuring audio frequencies to an accuracy of $\pm 0.5\%$. The method does not require the use of complex and expensive equipment.



RADAR, NAVIGATION

The Problem Of The Position-Finding Accuracy Characteristic In Radionavigation. A. G. Saibel. "Radiotek," May, 1957, 5 pp. The position-finding accuracy characteristic is examined in various forms, and on the basis of the derived functions the error-probability distributions are compared for elliptic scattering.

The Limiting Accuracies Of Long Range Radio Navigation Systems Which Are Based On A Phase Reading. G. A. Zaukina. "Radiotek," Dec., 1957, 10 pp. The paper examines the effect of the propagation conditions on the phase and phase velocity of radio waves in the 100-150 kc range. Results are given for computing the phase correction and the phase velocity for various types of soil. Graphs are plotted by means of which it is possible to determine the phase velocity as a function of the properties of the earth.



SEMICONDUCTORS

A Method for Simplifying the Design of a Transistor Amplifier Stage. A. A. Sokolov. "Avto. i Tel.," Dec., 1957, 3 pp. Equivalent circuits and equations are derived for a transistor amplifier stage in terms of rj—resistances. Several generalized examples are given.

Increasing the Useful Power Output of a Tuned Transistor Amplifier by Increasing its Efficiency. Part 1. L. S. Berman. "Radiotek," Nov., 1957, 4 pp. A transistor has practically no limitations with respect to emission current, and therefore an increase in its useful power output is limited chiefly by the allowable power dissipation. By increasing the efficiency of a tuned transistor amplifier through the use of an additional tank circuit which is tuned to the third harmonic, it is possible to increase the useful power output by more than a factor of 2 in comparison to that available from usual circuit (when the power dissipation is the same in both cases).

Nomogram For The h-Parameters Of Transistors. E. M. Manukhin. "Radiotek," Dec., 1957, 7 pp. The equivalent fourpole formulas, expressed in terms of h-parameters are the most convenient for performing low-frequency computations. The paper provides the most useful formulas and derives a nomogram that makes it possible to accomplish mutual conversion of h-parameters, as well as the conversion of h-parameters and the parameters of a "T" equivalent circuit. The use of the nomogram is illustrated by means of an example.



TELEVISION

A Helical Television Sweep. I. D. Feldman and M. Z. Iudich. "Radiotek," Mar., 1957, 6 pp. The paper discusses the principles of op-



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eration, the advantages and disadvantages of a number of helical sweeps. Certain of them have found application in the industrial television equipment of the French company "Laboratoire Derveaux." Two types of sweep circuits are proposed.

The Aperture-Effect Characteristic in Television Viewing. G. I. Bialik. "Radiotek," Mar., 1957. 14 pp. The paper generalizes a number of papers which have been written on the characteristics of aperture effect in television viewing. A basic characteristic is established—"The distribution law of a unit light flux." All the remaining characteristics—the frequency response, the pulse response, the transient response—are expressed as functions of the distribution law. The paper indicates the method of measuring the parameters of the sweep element according to the experimentally obtained pulse responses. The conclusions presented in this paper can be applied not only to television systems but also to other electron-optical systems (phototelegraphy, audiorecording).

Determining the Allowable Magnitude of the Periodic Interference in a Television Channel. by A. P. Efimov. "Radiotek," Mar., 1957. 8 pp. Problems involving the effects of periodic interference upon the quality of the television image have not been analyzed in Soviet literature. In this paper the allowable level of the periodic interference in a television channel is associated with certain characteristics of the channel and with certain features of human vision. The results of an experimental verification of the postulates posed in the paper are provided.

Use of Computers For the Statistical Analysis of Television Communication. E. I. Gilit'skaia, V. A. Garmash, D. S. Lebedev. "Radiotek," Mar., 1957. 4 pp. The paper shows that it is possible to use computers in order to obtain multi-dimensional probability distribution functions for the brightness gradations of the television communication. Fragments of motion-pictures were used in the capacity of the television communication. For two frames the paper provides a unidimensional probability distribution function, the correlation function and the value of the entropy as computed according to a two-dimensional probability distribution function.

The Selection Of Videomplifiers. Iu. N. Prozorovskii. "Radiotek," Mar., 1957. 5 pp. The paper demonstrates the regions in which it is practical to utilize compensated RC amplifiers and amplifiers with distributed constants. The most advantageous number of stages is determined, as well as the minimum duration of the leading edge of the transient response of the compensated amplifier; the conditions governing a rational arrangement of the tubes in a multistage amplifier with distributed constants are analyzed.

Electron-Optical Method For Varying the Scale of a Television Image. I. I. Taukerman. "Radiotek," Mar., 1957. 6 pp. The electron-optical method for varying the scale of a television image is applied to an orthicon by transferring the electron image. The transfer section of this transmitting tube is converted into an electron-optical system with a variable magnification without inverting the image. The electron-optical system is computed. Characteristics are given for the transmission of small details when the scale is varied.

Videorecording. M. O. Gliklikh and M. I. Tsikilia. "Radiotek," Mar., 1957. 8 pp. The paper examines the principles governing the design of television recording systems; the optimum variants of such systems are analyzed. The following types of systems are discussed: 1) systems for recording upon a continuously moving tape, 2) recording systems which use intermittent exposure of the tape.

One Method For Obtaining A Highly Accurate Frame Sweep. L. L. Santo. "Radiotek," Mar., 1957. 7 pp. The paper determines the accuracy

requirements governing the coincidence of the two rasters when the television signal is recorded. A circuit is proposed for the oscillator which supplies the control-voltage waveform, and experimental data are cited.

Designing an Amplitude Selector for a Television Receiver. A. Ia. Kornienko. "Radiotek," July, 1957. 8 pp. The paper examines the simplest circuits for diode amplitude selectors and amplifier-tube selectors; the basic relationships are derived for selecting the elements of amplitude-selector circuits.

Television Standards of the International Radio-broadcasting Organization. S. V. Novakovskii. "Radiotek," Oct., 1957. 7 pp. Detailed analysis of the television standards jointly adopted in March 1957 by the USSR, China, Czechoslovakia, Bulgaria, Albania, Mongolia, Poland, Romania, Hungary, North Korea and North Vietnam.

Error Analysis in Determining the Mean Value of a Random Quantity and Its Square. When the Errors Are Associated with a Finite Observation Time. A. E. Kharylin. "Avto i Tel.," Apr., 1957. 11 pp. The paper provides an analysis of the errors which occur in determining the mean value of a random quantity and its dispersion, when such errors are associated with a finite observation time. Formulas are derived from which nomograms are computed. These nomograms make it possible to evaluate the adequacy of the observation interval selected for the random quantity which is to be subjected to static analysis, or to find the proposed mean-square errors in determining the mean value of the random quantity and its dispersion over the selected observation interval in the most typical case.

Determining an Optimum Linear Dynamic System According to a Criterion Based Upon a Particular Type of Functional Extremum. N. I. Andreev. "Avto. i Tel.," July, 1957. 5 pp. A method is proposed for determining a dynamic system which corresponds to an extremum of a functional which can be written as a differentiable function of several quadratic functionals of the unit-pulse transient response of the system. The necessary condition governing the extremum of the functional is derived.

The Equation Which Determines the Distribution Law Governing the Integral of a System of Ordinary Differential Equations Containing Random Parameters. B. G. Dostupov, V. S. Pugachev. "Avto. i Tel.," July, 1957. 5 pp. The general equation is derived for the probability density of the integral of a system of ordinary differential equations which contain random parameters, and a possible method for performing the approximate integration of this equation by means of digital computers is indicated. The method developed in the paper can be applied to differential equations which contain random functions, provided that all of the random functions entering into the equations are approximated by finite segments of their canonical expansions. The method can be used for any system of ordinary differential equations if all of the functions are continuous with respect to the unknowns and have sectionally-continuous derivatives with respect to all of the unknowns. The method is a possible starting point for developing new approaches to the statistical analysis of nonlinear systems.

$$\Delta G = \Delta G_{\text{am}} \mu_p \epsilon$$

THEORY

An Amplifier With Distributed Constants When Treated as a System of Multi-Pole Networks. by Iu. N. Prozorovskii. "Radiotek," Jan., 1957. 8 pp. A method of analysis

is developed for an amplifier with distributed constants. The amplifier is considered to be a system consisting of a finite number of multi-pole networks. Matrices are obtained which correlate the input and output voltages and currents of a stage of a distributed amplifier consisting of sections which are of the same type or of different types. The transfer coefficient of the amplifier is determined. The procedure for transforming the complete circuit of a UHF pentode to a multi-pole network is given, and the corresponding matrices are derived.

Mutual Synchronization Of Self-Excited Oscillators At Multiple Frequencies. by G. M. Utkin. "Radiotek," Jan., 1957. 13 pp. The paper examines a system consisting of two mutually coupled self-excited oscillators at approximately multiple frequencies. In such a system it is true that mutual synchronization of the oscillations takes place in a certain detuning range of the oscillator tank circuits (the synchronism zone). The dependence of the operating mode and the frequency of oscillation, as well as the width of the synchronism zone, upon the frequency multiple and the oscillator parameters is derived. Certain features of the "beat" mode which arises outside of the synchronism zone are examined.

The Transformation Of Fluctuations In The Amplitude And Phase Of Oscillations By Means of Resonant Systems. by G. S. Gorelik and G. A. Elkin. "Radiotek," Jan., 1957. 6 pp. A theoretical investigation is made of how a signal whose phase and amplitude vary in a random manner passes through systems consisting of a linear (resonant) member and a nonlinear member (detector). Formulas are derived which make it possible to determine the statistical phase and amplitude characteristics at the output of the resonant system on the basis of the specified characteristics of the phase and amplitude fluctuations at the input of the system.

The Variational Method Of Computing Waveguides With Periodic Inhomogeneities. Part I. by Sh. E. Tsirring. "Radiotek," Jan., 1957. 12 pp. The paper examines the propagation of electromagnetic waves in a periodically corrugated waveguide whose walls are considered to be ideally conducting and whose internal medium is considered to be loss-free.

The Problem Of The Mechanism Of Electronic Emission From Thin Dielectric Layers Due To The Effects Of A Strong Electric Field (The Muller Effect). by M. I. Elinson and D. V. Zernov. "Radiotek," Jan., 1957. 10 pp. The paper analyzes the existing concepts of the mechanism governing the Muller effect. It is shown that these concepts cannot explain the sum total of the experimental facts which are known at the present time. A new point of view is proposed and analyzed; this point of view is based upon postulating that the potential distribution within the dielectric film is substantially inhomogeneous.

The Computation Of Spectra Of Random Processes. A. A. Kharkevich. "Radiotek," May, 1957. 7 pp. The paper analyzes the methodological problems pertaining to the spectral representation of both stationary and nonstationary random processes. The analysis is based upon the Wiener-Khinchine Theorem.

Some Characteristics of Transients in Resonant Amplification with Nonlinear Load. I. Y. Kraemer. "Radiotek," Aug., 1957. 3 pp. The characteristic peculiarities of transients in resonant amplification with nonlinear load are examined. The relationship of the delay signal and the time of increase in voltage at the outlet from the level of the input signal. Examination and application to logarithmic amplifiers used in radar, pointing out the influence of the examined characteristics of transients on radar accuracy.

Some Questions of Resonant Amplification. A. G. Amisnov. "Radiotek," Aug., 1957. 3 pp.

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Added appraisal of ratios S''/S' , defining the intensity of nonlinear effects during resonant amplification, which allows us to draw conclusions about the selection of conditions of tubes and about amplification control.

Electrons, Photons, and Radio Emission. L. B. Slepyan. "Radiotek," Aug., 1957. 5 pp. Radio emission seen from the point of view of the possible role played therein by electrons and photons. Analyzing the possibility of experimental verification of the actual existence of radiophotons.

Temperature Coefficient Of Frequency In Circuits With Optimum Thermal Compensation. M. E. Movshovich. "Radiotek," Sept., 1957. 6 pp. The paper derives equations which define the temperature coefficient of frequency in circuits with optimum thermal compensation. Results of computing a specific circuit are given, and it is shown that complex circuits exhibit no unconditional advantages over simple ones.

The Problem Of Computing Integrals Of Functions With A Rapidly Varying Phase Over Finite Limits. V. P. Peresada. "Radiotek," Sept., 1957. 8 pp. A simple method is given for computing the integral of functions with a rapidly varying phase over finite limits (the stationary phase method). Approximate formulas are given for the values of the integral when one or several stationary phase points are present. A physical analysis of the stationary phase method is given when the method is applied to the computation of wave fields. An example is given in which the method is applied to computing the distortion of antenna directivity patterns when this distortion is associated with cubic phase distortion in the mouth of the antenna; computing formulas are provided.

Plate-Circuit Self-Modulation in Short-Wave Transmitters. Z. I. Moidel. "Radiotek," Oct., 1957. 11 pp. The paper examines the possibility of improving the modulation characteristic in screen-grid tubes and in tubes employing grounded-grid amplification. In choosing the methods of compensating nonlinear distortion, preference is given to the method of large negative feedback. Methods of increasing the efficiency are given, and the special features of the computation are noted. It is concluded that plate self-modulation is practical in short-wave transmitters which are designed according to the principle of grid modulation and in transmitters of new design.

Dynamic Frequency Response of Selective Systems. I. T. Turbovich. "Radiotek," Nov., 1957. 11 pp. Analysis of the dynamic characteristics of any linear system. Simple formulas are given for the computation of the basic parameters of the dynamic characteristics (the position and height of the maximum, the expansion of the band width and the displacement with respect to the static characteristic) of selective systems. It is assumed that the rate of frequency variation is small. The limits of applicability are defined for the computed relationships.

The Principal Problems of Signal Theory and Problems of its Further Development on the Basis of a New Stochastic Model. N. A. Zhelezov. "Radiotek," Nov., 1957. 9 pp. Critical analysis of the properties of the model on which modern information theory is based. It is noted that limitation of the spectrum leads to the complete statistical determinability of the signals; thus it is possible to form these signals in physically realizable systems. It is shown that the concept of limiting the signal to a stationary process eliminates all types of radio signals. The author proposes a new stochastic model which retains the principal properties of actual signals.

On Designing Circuits With Lumped Elements Which Reproduce the Properties of Circuits with Distributed Constants. N. S. Kochanov. "Radiotek," Nov., 1957. 7 pp. The paper anal-

yzes the problem of representing certain irrational and transcendental functions (which express the input impedance of a long line) by means of continuous fractions. The author proves that it is possible to synthesize two-pole and four-pole networks with lumped elements that simulate the properties of long lines both with respect to input impedance and with respect to transfer constant.

Periodic Solutions for Systems with a Sectionally-Linear Characteristic That is Composed of Segments Which Are Parallel to Two Given Straight Lines (Part II). by M. A. Aizerman, F. R. Gantmakher. "Avto. i Tel.," Feb., 1957. 14 pp. The paper examines the problem of determining periodic regimes for systems having a nonlinear characteristic which is composed of segments of two straight lines. Periodic solutions for the corresponding differential equations are sought in the form of complete Fourier series. The solution of the problem includes the composition of equations for the periods and the solution of these equations. This method does not require the solution of linear systems of equations which describe the process over individual sectors.

Theory Of A Half-Wave Magnetic Amplifier. H. R. A. Lipman and I. B. Neznevitky. "Avto. i Tel.," Apr., 1957. 17 pp. The paper makes a detailed theoretical analysis of a half-wave magnetic amplifier. The finite permeability of the magnetic core material and the absence of the rectifier in the control circuit are both taken into account. A relationship is established between the structural and design parameters of the amplifiers.

Graphical Determination Of The Rotational E. M. F. In Selyns Systems. I. M. Sadovskiy. "Avto. i Tel.," Apr., 1957. 5 pp. The paper determines the additional emf which arises in a synchro system when the selyns rotate at constant speed. A nomogram is provided for a simplified graphical determination of this emf and for the determination of the shift in the "null" position of the selyns which is caused by it.

The Theory Of Derivative Control In Third-Order Linear Systems. G. A. Hendrikov and K. F. Teodorovich. "Avto. i Tel.," Apr., 1957. 3 pp. As we know, control which is based upon the response to the derivative of the mismatch function leads to an increase in the stability margin and to an improvement in the tracking performance in a number of cases. The mechanism of such a response can be clarified by plotting the laws governing the motion of the roots of the characteristic equation for the closed system on the plane of the complex variable (p) when the coefficient of the first power of p varies continuously.

A Three-Phase Magnetic Amplifier. V. V. Gorsky. "Avto. i Tel.," July, 1957. 5 pp. The paper discusses the principle of operation of a three-phase magnetic amplifier circuit proposed by the author. The construction is described in detail and certain experimental results are cited.

Improving the Static Characteristic of a Pneumatic Relay by Utilizing Restrictors with Constant Pressure Differentials. V. N. Dmitriev. "Avto. i Tel.," Aug., 1957. 13 pp. The paper investigates the possibilities of improving the static characteristic of a pneumatic relay by installing restrictors with constant pressure differentials. Equations are derived for the static characteristics of such relays, and detailed experimental results are provided.

Certain Problems Associated with the Theory of Magnetic Amplifiers and Magnetically Modulated Probes of the "Second Harmonic" Type. V. N. Mikhailovskiy, Ju. I. Spektor. "Avto. i Tel.," Aug., 1957. 8 pp. A no-load analysis is made of the operation of magnetic amplifiers and magnetically modulated probes of the "second harmonic" type when a sinusoidal exciting current is used. Hysteresis and eddy current losses are taken into account. It is proven that the presence of losses

gives rise to the dependence of the phase of the output voltage upon the intensity of the measured magnetic field.

Electrical Simulators for Computing Electromagnetic Systems. S. A. Alekseyev. "Avto. i Tel.," Aug., 1957. 9 pp. The paper describes a method of electrical simulation which can be used to solve problems involving the magnetic field distribution in electromagnetic systems in cases where these problems reduce to the external Dirichlet problem. The proposed method makes it possible to solve problems involving a magnetic circuit of any arbitrary shape with any arbitrary distribution of potentials along the boundary surfaces of the field. It is proven that, having determined the magnetic potential distribution at various points of the field, it is possible to use known methods to compute the permeance of the space occupied by the field of the electro-magnetic mechanism.

The Dynamic Precision Of A Servo System Which Contains A Non-linear Member With A Polynomial Characteristic. S. Ia. Raevskii. "Avto. i Tel.," Nov., 1957. 7 pp. The paper computes the mean-square error of a servo system with a non-linear member that has a polynomial characteristic. The perturbations are assumed to be stochastic. The mean-square error is computed by successive approximation on the basis of an approximate representation of the higher-order moments in terms of the lower-order ones.

On The Theory Of Optimum Control. N. N. Krasovskii. "Avto. i Tel.," Nov., 1957. 31 pp. The paper poses the problem somewhat differently than heretofore. Instead of assuming that at each instant t during the transient response the values of the controlling quantities $u, k(t)$ are limited, it is assumed that the limited quantity has a value which is determined, generally speaking, by the behavior of the function $u, k(t)$ over the entire interval of the transient response. In addition to the case where the quantities $u, k(t)$ are limited at each instant t , such a statement of the problem encompasses a number of other cases. An example of such a case is the problem of maximum speed of response when the average (in a definite sense) values of $u, k(t)$ over the duration of the transient are limited. The method of solution provided in the article leads to results which are analogous to those which are obtained in other papers in corresponding cases. Certain sufficient conditions for the existence of optimum trajectories are provided, and methods for an approximate determination of such trajectories are described.

On the Evaluation of the Region Within Which it is Possible to Find the True Periodic Solution Which is Approximately Defined by the Method of Harmonic Balance. I. V. Glatenok. "Avto. i Tel.," Dec., 1957. 4 pp. This paper demonstrates that there exists (when certain limitations are imposed) a stable periodic solution if the method of harmonic balance determines a periodic solution when it is applied to this equation. It is also demonstrated that the true solution is found in a certain vicinity of the periodic solution which is obtained by the method of harmonic balance. The dimensions of such an area are evaluated.

Transient and Steady-State Processes in Pulse Systems Containing Variable Parameters Which Vary Discontinuously. P. M. Kilin. "Avto. i Tel.," Dec., 1957. 20 pp. The paper analyzes one of the methods for determining transient and steady-state responses in pulse systems with variable parameters that vary step-wise. The method of step functions combined with continuous functions is used to describe the phenomena which arise in such systems. The following examples are dealt with: 1) the passage of height-modulated pulses through a pulse-envelope detector and a tuned amplifier; 2) transient and steady-state responses in a pulse-envelope detector and a tuned amplifier; 3) equivalent circuits for a pulse-envelope detector and a tuned amplifier.

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Synthesis of Pulse Circuits and Systems Incorporating Pulse Feedback. V. P. Perov. "Avto. i Tel.," Dec., 1957, 17 pp. The paper determines the optimum characteristics of pulse systems. The optimization criterion is assumed to be the minimum error dispersion for a specified dynamic accuracy and a specified transient response time of the system. The perturbation is assumed to consist of noise and signal, where the signal represents the sum of a stationary random component and a regular component.

The Problem of Synthesizing Linear-Varying-Parameter Dynamic Systems. A. M. Batkov. "Avto. i Tel.," Jan., 1958, 6 pp. A method is given for determining the differential equation of a linear-varying-parameter system from a specified pulse transient response.

The Operation of A Ring Converter When Small Input Signals Are Applied. V. S. Andriev. "Radiotek.," Dec., 1957, 9 pp. An exponential approximation of the characteristics of the non-linear elements is used to investigate ring converter circuits. Relationships are derived which define the dependence of the output signal and the input impedances on the input signals and the circuit parameters. The Newton-Rafson method is used to solve the transcendental equation. It is proven that the purest multiplication of the input signals is achieved for a definite relationship between the circuit parameters.

Frequency Methods of Remote Control of Distributed Objects. V. A. Ilyin and K. P. Kurdjukov. "Avto. i Tel.," Feb., 1958, 13 pp. The frequency method of selecting and controlling distributed objects in conducting transmission channels is developed. Construction of remote control devices including frequency relays with series oscillatory circuits is considered.



TRANSMISSION

A Directional Brancher For A H₁₀-Wave In A Waveguide With A Circular Cross-Section. by M. V. Persikov. "Radiotek.," Jan., 1957, 10 pp. The paper examines the system used for coupling a circular waveguide to a metering channel. As a result of the analysis the conditions are found which govern the segregation of the H₁₀-wave from waves of other types; the formulas for computing the coupling coefficients, the directivity coefficients, and the suppression coefficients for undesirable waves are derived. The theoretical computations are verified experimentally.

Design Of An Absorption Transmission Line. H. S. Melnikov. "Radiotek.," Jan., 1957, 3 pp. The paper provides an analysis of an absorption line which is designed in such a manner that the absorption of energy per unit length is constant along the entire line.

The Computation Of Waveguide With Slowly Varying Cross-Sections. A. L. Gutman. "Radiotek.," Sept., 1957, 9 pp. Expressions are derived which describe the elementary waves in a waveguide with a slowly varying cross-section. These expressions are utilized to derive the impedance and admittance conversion formulas for such a waveguide, as well as to determine the external parameters of a four-pole which is equivalent to a waveguide section with a slowly varying cross-section. An integral equation is obtained which defines the longitudinal profile of the waveguide couple which produces the minimum distortion (i.e., a section of waveguide with a slowly varying cross-section).

Determination Of Periodic Regimes In Systems Containing Sectionally-Linear Characteristics That Are Composed Of Elements Which Are

Parallel To Two Specified Straight Lines. II. M. A. Aizerman, F. R. Gantmakher. "Avto. i Tel.," Mar., 1957, 8 pp. The method which was analyzed in Part I for finding periodic solutions in the form of complete Fourier series (without neglecting the harmonics) is extended to apply arbitrary sectionally-linear characteristics that are composed of segments which are parallel to two specified straight lines, as well as to arbitrary types of periodic regimes.

The Structure of Remote-Control Lines for Dispersed Objects. V. A. Il'in. "Avto. i Tel.," July, 1957, 7 pp. The paper examines the structural reliability and the relative length of the transmission lines. On the basis of the analysis recommendations are made with regard to the selection of transmission lines for dispersed objects.

Longitudinal Electric Waves In A Periodically-Irised Rectangular Waveguide. R. M. Leont'eva. "Radiotek.," Dec., 1957, 10 pp. The paper investigates the propagation of a L_{em}-wave in the space bounded by a periodic serrated structure and a metallic plane surface placed above it. The problem is reduced to an infinite system of linear algebraic equations. An accurate characteristic equation is derived in the form of an infinite determinant. The degree of convergence of the determinant is established by means of three successive approximations. A series of graphs is plotted, these graphs characteristic the effects of the metallic plane, the finite thickness of the irises, and the structural coefficient on the dispersive properties of the structure.



TUBES

An Analysis Of The Energy Exchange Between An Electron Stream And An Electromagnetic Wave. by V. N. Shevchik. "Radiotek.," Jan., 1957, 7 pp. The paper examines certain problems involved in the interaction between an electron stream and a traveling electromagnetic wave when the kinematic approximation method is used. The process of electron bunching in the traveling wave is analyzed; this process is identical to the bunching process in a klystron. The maximum value of the first-harmonic current is determined in the traveling wave. The electronic efficiency of the interacting between the stream and the traveling wave is found. The synchronization concept is refined. The computations are extended to apply to a traveling-wave tube, and the optimum operating modes are found for a backward-wave oscillator at small amplitudes.

Gaseous-Discharge Counter Tubes. by I. Ia. Breido and G. M. Iankin. "Radiotek.," Feb., 1957, 6 pp. A survey is made of the widely used counter tubes whose operation is based upon the phenomenon of a directional transfer of the gaseous-discharge zone. The tubes which are chiefly examined are those which are used for decimal counting—the so-called "decatrions."

The Noise Coefficient of a Superhetrodyne. M. K. Belkin. "Radiotek.," June, 1957, 4 pp. The paper analyzes the problem of determining the noise coefficient of a linearly-operating superhetrodyne receiver. The mathematical analysis is based upon the linear equivalent circuit.

Experimental Investigation of Pulse-Interference Limiters Which Incorporate Spectrum Conversion and a "Following" Threshold. A. A. Gorbachev. "Radiotek.," June, 1957, 5 pp. Results are cited for an experimental investigation of a pulse-interference limiter which incorporates spectrum conversion of the useful signal and the interference, and a threshold which "follows" the level of the low-frequency useful signal.

The Use of a Compensating Circuit in the Cathode Loop of a Video-Amplifier Output Stage. T. M. Akakhanian. "Radiotek.," June, 1957, 10 pp. It is shown that a compensating network in the cathode loop of a video-amplifier output stage makes it possible to achieve a considerable increase in the maximum output voltage of the amplifier. Graphs and formulas are given which make it possible to compute the output voltage and the amplitude of the current pulse.

An Analysis of Transient Response in Diode Detection by the Method of Low-Frequency Equivalents. L. S. Gutkin, O. S. Chentsova. "Radiotek.," June, 1957, 14 pp. A method is developed for analyzing transient response in a system consisting of an RF amplifier and a diode detector; this method permits a comparatively simple determination of the results while taking into account the transient responses of the amplifier tank circuits (which supply the detector) when those tank circuits are designed in various ways and when various laws govern the variation of the input signal envelope. The method is based upon a linearization of the processes which occur during detection and upon the replacement of the detector and the system of tuned circuits supplying the detector by their low-frequency equivalents.

Experimental Investigation of Low-Frequency Noise in Vacuum Tubes and Transistors. II. V. Abramov, V. I. Tikhonov. "Radiotek.," June, 1957, 7 pp. A method is described for measuring the spectral intensity of the low-frequency noise which arises in vacuum tubes and transistors. Comprehensive results from actual experiments are cited, and the metering circuits are fully described.

A New Type of Powerful Generating Tetrode. Z. M. Lipshitz, G. M. Moskovskia, and M. I. Pass. "Radiotek.," Aug., 1957, 2 pp. A description of a new type of powerful generating tetrode of 10 kw., intended for use in short-wave.

Concerning the Frequency Characteristics of Compound Crystal Triodes. A. G. Philipov. "Radiotek.," Aug., 1957, 3 pp. Accounts and experimental data given showing the peculiarities of the frequency response of the coefficient of current amplification of compound crystal triodes, comparing them with ordinary (not compound) triodes.

An Account of the Integrated Characteristics of the Eye and Luminophor Screen during the Observation of a Television Image in the Presence of Fluctuation Noises. I. A. Krasnikov. "Radiotek.," Aug., 1957, 3 pp. The article analyzes the process of averaging fluctuation noise observed on the screen of the television receiving tube, conditioned by the finite time of the luminophor afterglow and lag of visual susceptibility. Deduced equations with the aid of which one can find the signal-to-noise ratio by using averaging calculations.

Ferrite Waveguide Rectifiers which Utilize the Principle of Ferromagnetic Resonance. A. I. Mikhaelian, A. K. Stolarov. "Radiotek.," Oct., 1957, 14 pp. The paper examines theoretical and design problems associated with resonant rectifiers (valves) which are used in radio-relay communication lines, instrumentation, etc. The following problems are discussed: 1) resonant phenomena in a rectangular waveguide with transverse magnetization of a ferrite plate; 2) resonant phenomena in the case of an additional dielectric plate; 3) methods of increasing the band width of resonant rectifier (valve) systems.

Certain Problems In The Theory Of Ultra High Frequency Tetrode Oscillators. V. S. Mikhailov. "Radiotek.," Dec., 1957, 7 pp. The paper analyzes electronic phenomena in the region between the screen grid and plate of a plane tetrode. Formulas are derived which determine the efficiency of the oscillator when it operates as a power amplifier or frequency multiplier.

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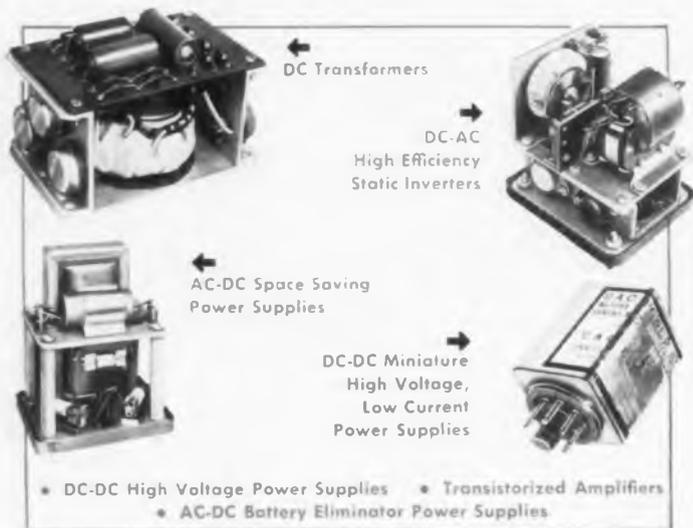


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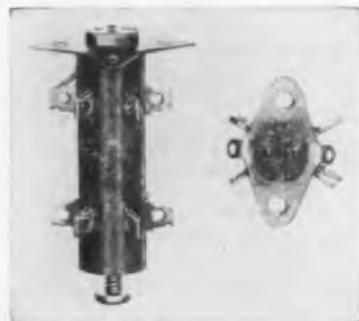


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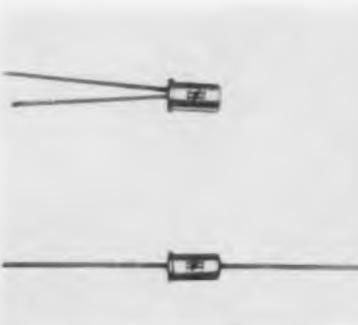


soldered to adjacent turret terminals to complete the circuit. Contacts are beryllium copper, plated with gold over silver. Vector Electronic Co., 1100 Flower St., Glendale 1, Calif.

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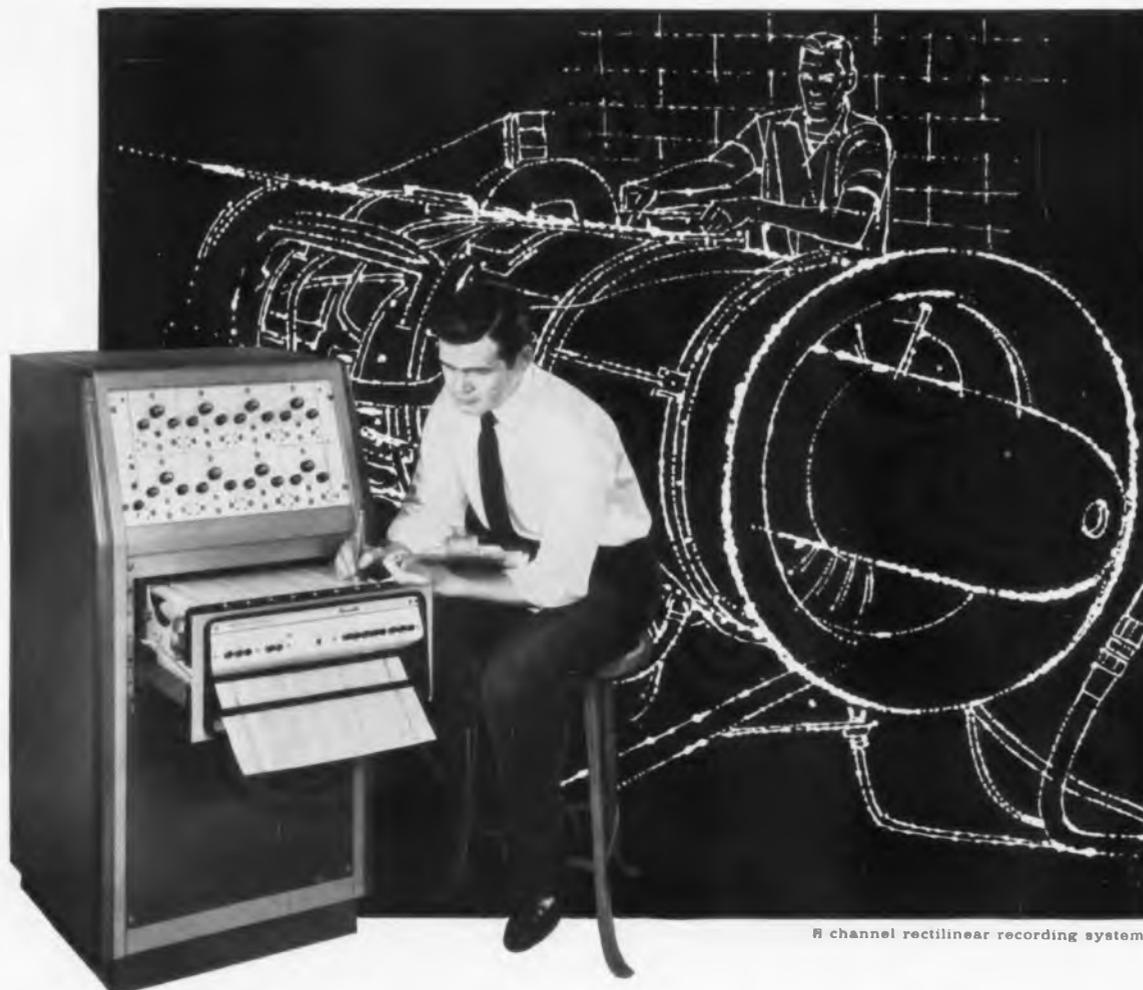
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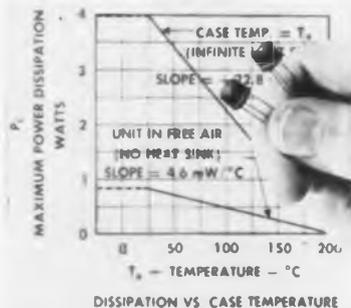
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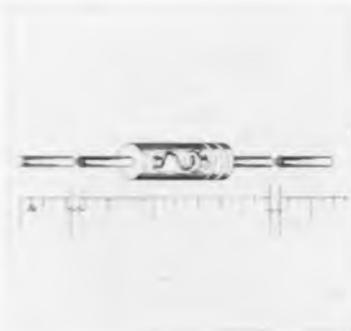


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Circle 383 on Inquiry Card

SILICON RECTIFIERS

Three new silicon power rectifier diodes (Types 305, 320 and 321) are now available. Particularly designed for all types of power applications, these new hermetically sealed silicon rectifying cells provide dc forward currents up to 1.6 a. with a maximum piv. up to 800 v. Maximum forward voltage drop at 1 a. and 125°C case temperature is 1.3 v. The peak leakage current at the same case tempera-



ture will not exceed 1.5 ma. Maximum operating frequency is 50 kc. Operating junction temperature is 175°C. Westinghouse Electric Corp., P. O. Box 2099, Pittsburgh 30, Pa.

Circle 384 on Inquiry Card

Grade	Key Characteristics	Standard Sheet Sizes*
XXXP-35	Million megohms IR cold punch 1/16"	36x42 36x84
Cirplast	High IR cold punch 1/16"	36x42 36x84
XP 47	Cold punch 3/32"	36x42 36x84
LS	Electrical applications – good machining	36x42 36x84
FT 50	High mechanical strength High IR	36x42 36x84
FF 55	Flexible, strong	36x42 36x84
FT 55	"Hot Strength" high IR	36x42 36x84
CS	Electrical applications requiring toughness	36x42 36x84
YN 20	Low electrical loss – postformable	36x42 36x84



**new Formica® streamliner program delivers
more copper clad laminates faster**

Streamliner is an entirely new program that delivers *more* Formica copper clad laminated plastics *faster* . . . and gives circuit designers and fabricators these extra advantages:

more grades Nine outstanding grades (see chart above) cover the broad range of standard circuit requirements. In addition, our research and development facilities – with the new resin laboratory and processing plant – are at your service for the development of new grades for special applications.

more properties Every conceivable combination of electrical, chemical and mechanical properties including highest IR; cold punching; arc- and heat-resistance; "hot strength"; dimensional stability; low moisture absorption; greater bond strength and solder resistance.

more sizes Thicknesses from 1/32" to 1/4". Standard sheet sizes 36" x 42" and 36" x 84". Additional sizes – 36" x 60", 36" x 72" and 36" x 96" – available on special order.

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4536 Spring Grove Ave., Cincinnati 32, Ohio

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- Also a copy of new Copper Clad Technical Data Book

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 Company _____
 Street _____
 City _____ Zone _____ State _____

Germanium Semiconductor Products

MINIATURE TRANSISTORS

A line of reliable subminiature transistors is available. These are p-n-p germanium units made by the fusion alloy process. The new subminiature types have a volume only



1/14 that of the JETEC-30 package. Four types, CK25, CK26, CK27 and CK28 duplicate the electrical characteristics of the Raytheon computer types. Four more types, CK13, CK14, CK16 and CK17 are for general purpose r-f use, four types, CK64, CK65, CK66 and CK67 are for general purpose audio use. Raytheon Mfg. Co., 55 Chapel St., Newton 58, Mass.

Circle 385 on Inquiry Card

GERMANIUM RECTIFIERS

The 4 rectifiers comprising the new germanium line are RETMA type 1N1005, 1N1007, 1N1008 and 1N1013. The 1N1005, 1N1007, and 1N1008 are half wave rectifiers capable of 250,



350, and 400 ma. dc output respectively. Type 1N1013 is 2 rectifiers connected as a voltage doubler and has a dc output rating of 250 ma. Peak inverse voltage rating for the 4 rectifiers is 380 v. All are designed to be used with a 4 Ω series surge resistor. Ambient operating temperature rating is 55°C. General Electric Co., Syracuse, N. Y.

Circle 387 on Inquiry Card

GERMANIUM TRANSISTOR

Type 2NR62 transistor is available in production quantities. The outstanding feature is its bilateral (sometimes known as symmetrical) characteristics. Applications include



complementing circuits, bi-directional switches, bi-directional amplifiers, and phase detectors. It has good high voltage, current, and gain ratings. Maximum collector (or emitter) voltage is 40v; maximum collector current is 200 ma. DC current amplification factor (h_{FE}) is typically 45, in either direction. Philco Corporation, Philadelphia, Pa.

Circle 389 on Inquiry Card

DRIFT TRANSISTOR

The 2N384 is a hermetically sealed drift transistor of the germanium p-n-p type. It is designed primarily for military and industrial use as an oscillator up to 250 MC or as an r-f amplifier in compact mobile communications equipment. It features a frequency of 250 MC for unity power amplification, an alpha cutoff frequency of 100 MC, a collector transition capacitance of 1.3 μ f, a base re-



sistance of 50 ohms, and a dissipation rating of 120 mw. at 25°C and 35 mw. at 71°C. Semiconductor Div., Radio Corporation of America, Somerville, N. J.

Circle 386 on Inquiry Card

HIGH GAIN TRANSISTOR

A new very high gain germanium PNP audio power transistor, the 2N285A, has current gains up to 250 at 0.5 a. collector current, 125 at 2 a. collector current, and 50 at 3 a. collector current. It has a maximum collector dissipation of 25 w. and a maximum junction temperature of 95°C. It is designed to be used in high gain audio and hi-fi amplifiers. Because of its very high gain it is especially

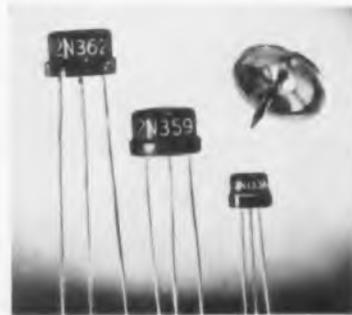


useful in feedback circuits. Also useful in servo amplifiers and motor control circuits. Bendix Aviation Corp., 201 Westwood Ave., Long Branch, N. J.

Circle 388 on Inquiry Card

PNP TRANSISTORS

Twelve new germanium PNP transistors for audio applications are available. Six in the JETEC-30 package are for driver and output use as follows: types 2N362 and 2N363 are drivers; 2N422 is a low noise unit; types 2N359, 2N360 and 2N361 are all capable of 500 mw output in class B. The other 6 are: types 2N130A, 2N131A and 2N132A are amplifiers; 2N133A is a low noise amplifier with



maximum noise factor of 6 db; 2N138B is an output type capable of 50 mw in class B. Raytheon Manufacturing Co., 55 Chapel St., Newton 58, Mass.

Circle 390 on Inquiry Card

POLARAD
ANALOG INSTRUMENTS

MICROWAVE · ELECTRONICS

FOR MICROWAVE SPECTRUM ANALYSIS

DIRECT-READING SPECTRUM ANALYZER

Model TSA 10 to 44,000 mc

FEATURES:

- Direct-reading UNI-DIAL control
- High accuracy, resolution and sensitivity
- Stable, accurate frequency marker
- To test missile, radars, microwave components, telemetry, multi pulse transmissions

Model DU

Spectrum Display and Power Unit

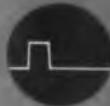
Five Interchangeable Tuning Units

STU-1	10	1,000 mc
STU-2A	910	4,000 mc
STU-3A	4,370	22,000 mc
STU-4	21,000	33,000 mc
STU-5	33,000	44,000 mc



COMBINATION SYNCHROSCOPE SPECTRUM ANALYZER

Model TSA-S 10 to 44,000 mc



Time Display

Pulsed signal as seen in synchro scope monitor.



Frequency Display

Same signal as seen in spectrum analyzer operation.

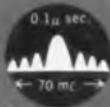
Selector switch determines function instantly. Tuning error. Same as Model TSA above.



VERY WIDE DISPERSION SPECTRUM ANALYZER

Model TSA-W 10 to 44,000 mc

Narrow and Wide Pulse Analysis



70 mc frequency dispersion displays pulses as narrow as 0.1 microsecond. For wide pulse analysis, dispersion may be adjusted to as narrow as 100 hr.



Wide dispersion permits simultaneous observation of two or more signals separated by relatively large frequency differences.

Resolution: 7 mc narrow bandwidth, 50 mc wide bandwidth. Tuning Unit Frequency Range: Same as Model TSA above.



MULTI-BAND, SINGLE UNIT SPECTRUM ANALYZER

Model SA-84

Complete frequency coverage, 10 to 40,880 mc, all in one self-contained unit. No additional tuning units required.



MULTI-PULSE SPECTRUM SELECTOR

Model SD-1

Permits spectrum analysis of individual microwave pulses in a pulse group. Any pulse in a complex coded signal may be isolated and intensified for examination.

FOR GENERAL LABORATORY USE

PULSE JITTER TESTER

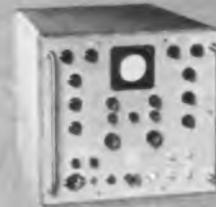
Model PJ-1

Measures:

- Relative jitter
- Pulse width jitter
- Repetition rate jitter

Displays:

- Jitter magnitude
- Jitter waveform



TRANSISTOR MICROWAVE POWER METER

Model P-3 10-39,000 mc

Measures absolute r-f power level instantly without tuning. Line or internal-battery operated. Rugged, weighs only 6 pounds.



RAPID SCAN RATIO-SCOPE

Model VS-2

Used with sweep generator (ESG, opposite side). Displays ratio of two input signals, visual plot VSWR or response-frequency on 7" CRT.



KLYSTRON TUBE TESTER

Model K-200

Tests all microwave tubes as easily as ordinary vacuum tubes.



5-PULSE, CODED MULTI-PULSE GENERATOR

Model MP-1A

Generates 5 separate pulses each with independently variable width and delay for missiles, beacons, and other systems.



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MICROWAVE · ELECTRONICS

FOR MICROWAVE SIGNAL GENERATION 650 to 50,000 mc

All Polarad microwave signal generators and sources feature single-dial tuning control, direct reading frequency dial accurate to 1%, continuous tuning in each

range, high stability, low harmonic content, and non-contacting short-type klystron cavity chokes for noiseless tuning and accurate calibration.



Model MSG-1

MICROWAVE SIGNAL GENERATORS

Model MSG-1
950 to 2,400 mc
Model MSG-2
2,150 to 4,600 mc



Model PMX

MICROWAVE SIGNAL GENERATOR

Model PMX
4,450 to 11,000 mc
Basic Unit Model GB-2
(Modulator, Keyer, Power Supplies)
Tuning Unit G-49
4,450 to 8,000 mc
Tuning Unit G-711
8,950 to 11,000 mc



Model MSG-34

MICROWAVE SIGNAL GENERATOR

Model MSG-34
4,200 to 11,000 mc: all in one unit



Model PMX

MICROWAVE SIGNAL GENERATOR

Model PMX
10,000 to 21,000 mc
Basic Unit Model GB-3
(Modulator, Keyer, Power Supplies)
Tuning Unit G-1015
10,000 to 15,500 mc
Tuning Unit G-1521
15,000 to 21,000 mc

Model SG-1218 Signal Generator and Model SS-1218 Source are available to cover the frequency range 12,400 to 17,500 mc.

MICROWAVE SIGNAL SOURCES

Tuning Unit	Frequency Range	Power Output Range
SSR	650 to 1,300 mc	100 to 700 mw
SSL	1,050 to 2,250 mc	80 to 400 mw
SSS	2,140 to 4,600 mc	40 to 250 mw
SSM-A	4,450 to 8,000 mc	15 to 50 mw
SSX-A	7,850 to 10,750 mc	14 to 40 mw
SSX-E	7,850 to 11,500 mc	14 to 40 mw

Klystron Power Supply, Model KX-8, available to provide stable, high-voltage power with low ripple content for microwave signal sources.



Model SSS

EHF Generator



Model ESG

EHF MICROWAVE GENERATORS AND SOURCES 9 plug-in units cover 10,000 to 50,000 mc

SIGNAL GENERATORS Basic Unit Model HU-2	FREQUENCY RANGE	SIGNAL SOURCES Basic Unit Model HU-1
Plug-In Tuning Unit Model No.		Plug-In Tuning Unit Model No.
G1822-1	10,000 — 22,000 mc	S1822-1
G2225-1	22,000 — 25,000 mc	S2225-1
G2427-1	24,700 — 27,500 mc	S2427-1
G2730-1	27,270 — 30,000 mc	S2730-1
G2933-1	29,270 — 33,520 mc	S2933-1
G3336-1	33,520 — 36,250 mc	S3336-1
G3540-1	35,100 — 39,700 mc	S3540-1
	37,100 — 42,600 mc	S3742-1
	41,700 — 50,000 mc	S4150-1

MICROWAVE SWEEP GENERATOR

Model ESG
1,000 to 15,000 mc
Basic Unit: Model E-B or E-B1
7 Interchangeable Tuning Units:

Tuning Unit	Frequency Range	Power Output
Model E-1	1,000 to 2,000 mc	70 to 900 mw
Model E-2	1,600 to 3,200 mc	70 to 900 mw
Model E-3	2,000 to 4,000 mc	70 to 750 mw
Model E-4	3,600 to 7,200 mc	20 to 350 mw
Model E-5	4,800 to 9,600 mc	15 to 125 mw
Model E-6	6,500 to 13,000 mc	15 to 80 mw
Model E-7	7,500 to 15,000 mc	10 to 35 mw

Sweep Rate: Model E-B 50-60 cps.
Model E-B1 1,000 mc./sweep—
30 sweeps/sec.

PULSE CODE MODULATED MICROWAVE SIGNAL GENERATOR

With Precision Oscilloscope

Model B
950 to 10,750 mc

4 Interchangeable Tuning Units

Frequency Range:

BL-1—950 to 2,400 mc
BS-1—2,150 to 4,600 mc
BC-1—4,450 to 8,000 mc
BX-1—7,850 to 10,750 mc
Provides 5 independently adjustable pulse channels.



Model B

FOR MICROWAVE RECEPTION

EXTENDED RANGE MICROWAVE RECEIVER

Model R
400 to 46,700 mc

Key features include:

- AM-FM receiver
- Field intensity receiver
- Pulse, pulse-time or pulse-position demodulator
- Sensitive power meter

Basic Unit Model RB



3 Interchangeable Plug-In Tuning Units*

Model RB-T	400-1,000 mc	Model RB-1	7,300-11,200 mc
Model RB-C	950-2,000 mc	Model RB-2	9,500-15,000 mc
Model RB-T	1,950-4,300 mc	Model RB-3	14,700-22,000 mc
Model RB-1	4,295-7,700 mc	Model RB-T	20,250-46,700 mc

*U. S. Patent 2,774,243

CALIBRATED FIELD INTENSITY METER



Power Supply



Standard Unit

Model FM 1,000-10,000 mc

A highly sensitive instrument for field intensity and VSWR measurements. Used for antenna pattern analysis, feed loss, antenna and VSWR measurements. Frequency and power calibration.

Four Interchangeable Tuning Units*

F100-1	1,000 to 2,000 mc
F100-2	2,100 to 3,500 mc
F100-3	4,200 to 7,700 mc
F100-4	7,800 to 10,000 mc

*U. S. Patent 2,774,243

Test Accuracy: (1) and (2) within 1.0% to 10.0% mc.
Antenna Pattern: (3) within 1.0% to 10.0% mc.
Antenna Pattern: (4) within 1.0% to 10.0% mc.
Antenna Pattern: (5) within 1.0% to 10.0% mc.

MICROWAVE ACCESSORIES



MICROWAVE ATTENUATOR

Model SJ4
Covering
4,000 to 12,400 mc
Continuously variable, stub-tuned.



SUB-MINIATURE S-BAND CAVITIES

Plate and Grid Pulsed Models
Each Covering
2,750 to 3,000 mc



ALL CERAMIC KLYSTRON TUBE

Model ZV1009
VELOCITRON
1,600 to 6,500 mc

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Semiconductor Products

COLD CATHODE DIODE

A new micro-miniature cold cathode gas trigger diode tube is available for electronic, avionic and missile applications where weight, physical size and high G considerations are



involved. It can be used for isolation purposes, electronic switching, RC timing circuits, relaxation oscillators, etc. It has high input resistance before a critical voltage is reached, at which time the new diode "breaks down" and becomes a very low resistance. Available in a wide variety of characteristics. The Victoreen Instrument Co., 5806 Hough Ave., Cleveland 3, O.

Circle 403 on Inquiry Card

EXPANDABLE RECTIFIER

A versatile new silicon rectifier that can be used singly, or assembled instantly into series chains for higher voltage applications, is available. The A750 can be combined with inex-



pensive threaded bushings to form simple assemblies for kilowatts of rectified power. The individual unit is sealed and threaded at each end, so it can be screwed into the bushings, or into a chassis "heat sink," or plugged into a clip holder. Unit is 1 in. long with an inverse rating of 400 v. and maximum forward current of 750 ma. Audio Devices, Inc., 620 E. Dyer Rd., Santa Ana, Calif.

Circle 405 on Inquiry Card

VOLTAGE REGULATORS

A series 10 w. voltage regulator (zener) diode for voltage control in aircraft, missiles, land vehicles and other equipment is available. The larger diffused junction area offers



low dynamic impedance and permits closely controlled characteristics. Standard units are available in the range of 10 v. to 100 v., with tolerances of 5% and 10%. The wide range of low voltage values, together with good long-time stability makes them especially suited to transistor and mag-amp circuitry. Hoffman Electronics Corp., 930 Pitner Ave., Evanston, Ill.

Circle 407 on Inquiry Card

RECTIFIERS

A new series of 20-ampere stud-mounted 200° C. silicon rectifiers are on the market. They have been built to take extreme punishment and are designed to meet rigid military mechanical specifications. Presently there are four types which comprise the series. These have been JETEC type-designated 1N1301, 1N1302, 1N1304, and 1N1306. Respectively, they have peak inverse voltage rat-



ings of 50, 100, 200, and 300 volts. Maximum leakage current rating on the rectifiers is 5 milliamperes. General Electric Semiconductor Products, Electronics Park, Syracuse, N. Y.

Circle 404 on Inquiry Card

SILICON VOLTAGE DOUBLERS

The small size, light weight, and rectifying characteristics of these silicon cartridges make them especially applicable to airborne military and industrial equipment. Hermetic sealing in metalized ceramic housings permits their use in corrosive atmospheres. Each is a voltage doubler having a maximum rating per leg of 3,200 PIV. Two units can be connected as a single-phase, full-wave



bridge, capable of delivering 1,900 v. dc at 90 ma. for an input voltage of 2,240 v. rms. Mounts in a standard 30 a. fuse clip. International Rectifier Corp., El Segundo, Calif.

Circle 408 on Inquiry Card

PLUG-IN COMPONENTS

A plug-in component package, named "Comp-Plug PR5" is especially designed for use with the new AMP shielded patch cord programming system. These components can be used to patch an entire program into a computer, telemetering equipment or testing equipment. Component is encapsulated in a package with one end terminated in an AMP male pin. The other end can be furnished as a solder terminal, a female receptacle,



or a cable. Diodes, capacitors and RC networks can be supplied to specifications. Eastern Precision Resistor Corp., 675 Barbey St., Brooklyn 7, N. Y.

Circle 406 on Inquiry Card

Potentiometers for Designers

MINIATURE POTS

A new line of micro-miniature precision wire-wound potentiometers offering stability under temperature cycling. ACESETS are available in 9 values between 100 and 25,000 ohms.



Mechanical Specs.: 1 piece machined metal case; stainless steel shaft; self-contained locking device; mechanical rotation, 330° nominal; size, 1/2 in. dia. x 5/16 in. Electrical Specs.: heat dissipation, 2 w. at 60° C; voltage breakdown, 1,000 vdc; electrical angle, 325° nominal; resistance tolerance, ±5%. Ace Electronics Associates, Inc., 99 Dover St., Somerville, Mass.

Circle 325 on Inquiry Card

MOLDED POTENTIOMETER

Type AS miniature potentiometers are 1/2 in. in diameter and rated at 0.5 w. continuous duty. The relatively thick, solid, molded resistance elements offer a large factor of safety. Even the brush is molded for long wear and lower noise level. Units are furnished in linear taper with locking type, screw-driver-slotted shafts. They are dust tight, splashproof and



fungus-resistant. Terminals are gold plated. Available in 15 values from 100 ohms to 5.0 megohm, these units meet military specifications. Ohmite Mfg. Co., 3630 Howard St., Skokie, Ill.

Circle 328 on Inquiry Card

VARIABLE RESISTOR

A new hot molded composition variable resistor, especially designed to withstand ambient temperatures up to 150°C, is available. Variable resistors are available in standard U,



A, B, S, and DB resistance rotation characteristic tapers in nominal values up to a maximum of 5.0 megohms total resistance. Also available with integrally molded terminals at standard 35%, 50%, and 65% of effective shaft rotation. Type K controls can be furnished in single, dual, and triple units, with plain or lock bushings. Allen-Bradley Co., 136 W. Greenfield Ave., Milwaukee 4, Wis.

Circle 327 on Inquiry Card

SMALL POTENTIOMETER

A small enclosed, high resolution 2 in. diameter potentiometer, series HP-200, can be supplied singly or as multiple ganged units. Mountings include piloted servo or 3 tapped holes. Power dissipation is 3 watts. Mechanical rotation is 360°. Up to 16 taps can be provided, depending on spacing. Precious metal brush, collector and tap contacts, together with hard

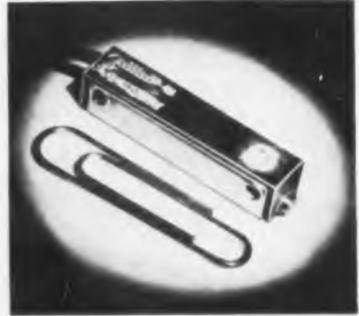


gold plated terminals and slip rings, are standard design features. Uses Kohlrausch resistance element. DeJur-Amasco Corp., 45-01 Northern Blvd., Long Island City 1, N. Y.

Circle 328 on Inquiry Card

PRECISION POTENTIOMETER

A tiny precision potentiometer for pad or trim resistance functions is called the "Padohm." Screwdriver-adjusted, it is available from 100 to 20,000 ohms, and standard overall re-



sistance tolerances of ±10% with standard linearity of ±2%. In 2 types: Type L rated at 0.25 w., derated to 0 power at 105°C, and Type H, 0.40 w. derated to 0 power at 135°C. Especially intended for extreme ambient conditions of temperature, moisture, shock and vibration. Effective electrical travel is 98% min. of mechanical travel in 25 turns. Clarostat Mfg. Co., Inc., Dover, N. H.

Circle 329 on Inquiry Card

POTENTIOMETER

Model 130 is a new Precision 1-5/16 in. dia. single-turn potentiometer. The series meets MIL Specs NAS-710 environmental humidity requirements, and will operate in a temperature of -55°C to +85°C. Standard linearity tolerance is ±0.5%, special linearity tolerance available. Resistance range is 10 ohms to 30,000 ohms, with a tolerance of ±3%. Special resistance



tolerances are available. They have a life exceeding 1 million revolutions. Multiple taps can be supplied on request. Spectrol Electronics, 1704 S. Del Mar Ave., San Gabriel, Calif.

Circle 330 on Inquiry Card



Rugged and stable under high temperature conditions, these Corning S-Type resistors provide savings in space and cost.

Now you can have resistors with all these advantages...

1. 120°C. operation with 100% power, derating to 200°C.
2. Same size as deposited carbons
3. Wide resistance range
4. Economical cost

To help you solve the problem of small space and high ambient temperature Corning has developed these Type S resistors.

These are not ordinary film-type resistors. They are integral units made by bonding a metallic oxide to a PYREX® glass rod at red heat. They're non-inductive and completely impervious to moisture.

Three sizes are now available in production quantities:

S-20—½-watt at 120°C. (or 1-watt at 40°C.). Range from 50 ohms to 500,000 ohms.

S-25—1-watt at 120°C. (or 2-watts at 40°C.). Resistance range from 50 ohms to 1.5 megohms.

S-30—2-watts at 120°C. (or 4-watts at 40°C.). Resistance range from 100

ohms to 4.2 megohms.

Corning Type S resistors have an average change in resistance of less than 1.5% after 1,000 hours at rated power.

Tolerances of 1%, 2%, 5% and 10% are available to meet your exact applications.

And how does a volume price of 25¢ each for the S-20 ± 1% tolerance sound to you?

Write for detailed descriptive bulletin CD-2.05.

Ask for information on these other Corning resistors:

Type LP—Low-cost, low-power. In 3-, 4-, 5-, and 7-watt sizes.

Type R—Power resistor to MIL-R-11804B. Tolerances of 2% or 5%, 7 to 115 watts. Range: 25 to 1,000,000 ohms.

Type H—High-frequency 2% or 5% tolerance. Standard ranges from 25 to 1,000,000 ohms and ratings from 7 to 140 watts.

Type HP—High-power resistors. 17, 30, 70, and 150 watts. Tolerances of 2% or 5%. 25 to 500,000 ohms.

Type WC-5—Water-cooled. Range—35 to 300 ohms. Versatile and adaptable.

Type N—Accurate grade. Made to meet all requirements of MIL-R-10509B.

Other products for Electronics by Corning Components Department: Fixed Glass Capacitors*, Transmitting Capacitors, Canned High-Capacitance Capacitors, Subminiature Tab-Lead Capacitors, Special Combination Capacitors, Direct-Traverse and Midget-Rotary Capacitors*, Metallized Glass Inductances, Attenuator Plates.

*Distributed by Erie Resistor Corporation



CORNING GLASS WORKS, 95-6 Crystal Street, CORNING, N. Y.

Corning means research in Glass

Circle 173 on Inquiry Card, page 175

Microwave Components

FERRITE ISOLATOR

A new broad band ferrite isolator of small size and weight has been developed. Model W177-1G-2 transverse field isolator consists of rectangular waveguide with permanent

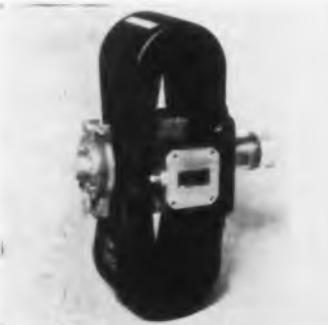


magnetic transverse field and ferrite sections built into the unit. Features area range of 8.5 to 9.6 KMC with isolation at 15 db min. and insertion loss of 1.0 db max. Other features include an input vswr of 1.10 to 1.5 max. Average power 200 w. and temperature-amb: 150°. Size is 1.000 deep x 2.100 high x 2.400 in. wide. Kearfott Co., 14844 Oxnard St., Van Nuys, Calif.

Circle 397 on Inquiry Card

TUNABLE MAGNETRON

The latest addition of microwave oscillator tubes is the 5780 tunable X-band magnetron. It is an integral magnet, air-cooled, pulse type magnetron, which is continuously tunable over a frequency range of 8500 to 9600 MC. Capable of reliable performance at over 300 kw (peak) power output. It is well adapted for use in short pulse, X-band applications where high power output is de-



sired. The cathode terminal and mounting plate are designed to fit the standard fixed-frequency 4J50 mounting socket. Bomac Laboratories Inc., Salem Rd., Beverly, Mass.

Circle 398 on Inquiry Card

TRAVELING WAVE TUBE

These tubes, a type of traveling wave tube, have applications in advanced types of multi-channel telephone and TV systems using circular waveguide for transmission, high



definition short range radar, highly directive communications, microwave spectroscopy, and as signal sources in the millimeter wavelength region. TE-57 typical electrical characteristics are: frequency range, 49 KMC-59 KMC; anode voltage, 1000-3000 v.; power output, 10 mw; beam current, 10 ma; magnetic field, 1300 gauss; heater voltage, $6.3 \pm 10\%$. Bendix Aviation Corp., Eatontown, N. J.

Circle 399 on Inquiry Card

MINIATURE ISOLATOR

The "C" Band 150 kw ferrite miniature isolator was designed to operate in the 5000 MC frequency range. These ferrite resonant absorption isolators furnish constant uni-directional magnetron to load isolation. They feature a waveguide size of 2.00 x 1.00 O.D. with a weight of less than 3.5 pounds. The ferrite material is mounted directly on the waveguide wall and full waveguide opening has



been used. Five units are available to collectively cover the frequency range from 5250 to 5750 megacycles. Airtron, Inc., 1101 W. Elizabeth Ave., Linden, N. J.

Circle 400 on Inquiry Card

MOBILE ANTENNA

A mobile antenna has a 28 ft diameter reflector constructed of welded aluminum and sectionalized to enable it to be stored within its mounting tower. Retractable wheels in the



tower are used to convert the structure into a trailer which can be towed over public highways or difficult terrain. Adapts particularly to scatter propagation site surveys. It may be rolled aboard a military transport plane and secured without additional crating. Known as Model 749, it is adaptable for use between 200 and 4000 MC. D. S. Kennedy & Co., Cohasset, Mass.

Circle 401 on Inquiry Card

FERRITE ISOLATORS

High-power K_u-band ferrite isolators are now available. Model IK_uH1 covers a frequency range of 16.0 to 17.0 KMC; it provides a minimum of 20 db isolation and a 0.5 db maximum insertion loss over the full band. Model IK_uH3 is a miniaturized unit which weighs less than 1½ lbs. and is less than 2 in. long; it provides a minimum isolation of 14 db and a maximum insertion loss of 0.3 db over



the 16.0 to 17.0 KMC band. Both units have a power handling capability of 135 watts average, 135 kw peak. Raytheon Manufacturing Co., Seyon Bldg., Waltham 54, Mass.

Circle 402 on Inquiry Card

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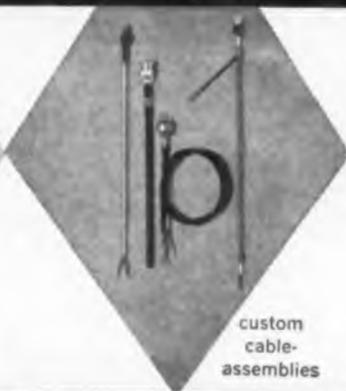
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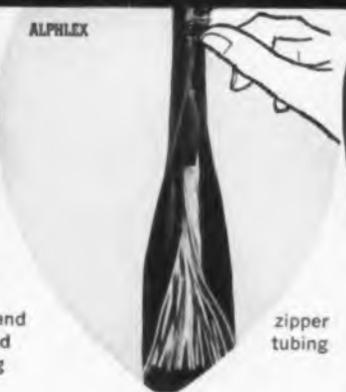


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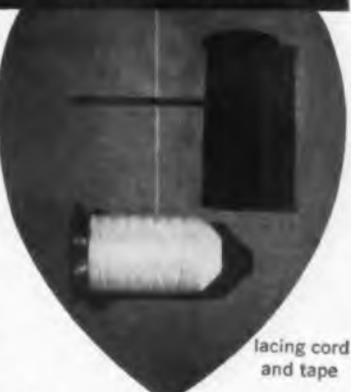
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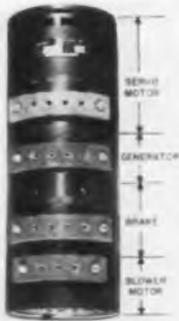
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Synchros and Motors

SERVO COMBINATION

Type 23-MTG-6327-01 is a versatile single unit combining a size 23 1/15th hp at 6000 RPM servo motor; a damping tach generator with an output of 1.5 v per 1000 rpm nominal and null



voltage of 0.150, and linearity of $\pm 2\%$ up to 6000 RPM; 28 vdc brake; and a blower capable of cooling the entire unit. The unit is available in any desired combination of its components. Designed for driving antennas and other self-cooled drive motor applications. Overall dimensions are 8.100 long max. x 2.88 \pm .010 in. diameter. John Oster Mfg. Co., 1 Main St., Racine, Wis.

Circle 337 on Inquiry Card

AC MOTOR

New ac motors, designed for induction, torque or hysteresis synchronous applications, with outputs up to 1 hp, are available. The 3800 Frame series is available with input voltages of



from 26 to 230 vac, 1, 2 and 3 phase; input frequency from 25 to 400 cps. For induction applications, units in this series are offered in outputs to 1 hp; torque motors 10 to 200 oz. in. stall torque; hysteresis synchronous 1/200 to 1/4 hp. Motors can be wound for single, dual or 3 speed, and can be supplied as self cooled with internal fan. Induction Motors Corp., 570 Main St., Westbury, N. Y.

Circle 339 on Inquiry Card

SERVO MOTOR

This tiny, low inertia servo motor has just been developed. It measures 1/2 in. in diameter by 1 19/64 in. long. It consists of a squirrel-cage rotor mounted on precision ball bear-



ings, a two-phase stator and a stainless steel housing. While the motor illustrated incorporates a tapered shaft, similar units can be supplied with shafts designed for specific applications. Some characteristics of the motor include: size, 5 frame; weight, 0.94 oz.; fixed phase and control phase voltage, 26 v.; frequency, 400 cps. Eclipse-Pioneer Div., Bendix Aviation Corp., Teterboro, N. J.

Circle 341 on Inquiry Card

SYNCHRO INDICATOR

A new aircraft synchro indicator (Type 26800), can be used in any electronic system that provides a synchro output or in any electrical system in which remote position indication is desired. The hermetically sealed unit, 1 in. dia., weighs less than 3 oz. Meets Mil-Spec I-22540A. Designed for 26 v., single-phase, 400 cycle operation, it will operate with



many standard pressure transmitters. Both dials and pointers are available in various finishes. The unit is designed for clamp mounting. Montrose Div. of Bendix Aviation Corp.

Circle 338 on Inquiry Card

SPEED REDUCERS

A new in-line series of speed reducers to be marketed under the trade name StraitLine. StraitLine reducers are available in double and triple reduction. Double reduction units are offered in 15 standard ratios from 3.39:1 to 57.3:1 with ratings up to 100 HP. Triple reduction units are available in 9 ratios from 82.1:1 to 190.7:1 with ratings up to 50 HP.



StraitLine reducers feature complete interchangeability of individual parts throughout frame sizes as well as packaged sub-assemblies. Western Gear Corp. Box 182, Lynwood, Calif.

Circle 340 on Inquiry Card

SERVO REPEATER SYSTEM

The Model W1801 servo repeater system includes a transistorized servo amplifier, motor, synchro, power supply and gear train, all in a housing 2 in. in dia. x 4 in. long. Power requirements are 10 w., 400 cps, at either 115 v or 26 v. Weight is 12 oz. This is the first of a new line of packaged servo systems, which will include integrators, differentiators, co-



ordinate converters and vector solvers. They are designed to meet MIL specs. Waldorf Instruments Co., Wolf Hill Road, Huntington Station, New York.

Circle 342 on Inquiry Card

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Special Electron Tubes

MULTIPLIER PHOTOTUBE

6810-A is a 14-stage head-on type of multiplier phototube for use in scintillation counters for the detection and measurement of nuclear radiation, and in applications involving



the measurement of low-level light sources that supercedes the 6810. The spectral response of the 6810-A covers the range from about 3000 to 6500 angstroms, with maximum response occurring at approximately 4400 angstroms. It is therefore quite sensitive to blue-white light with negligible sensitivity to red radiation. Radio Corp. of America, Harrison, N. J.

Circle 313 on Inquiry Card

INDICATING TUBE

The new tube, designated the Indicoder binary decoding tube, has a 1½ in. square screen on which can be projected a numeral 1 in. high. In combination, they form an electronic



display board which will keep current, detailed information on scores of aircraft in the vicinity of an airport. Another use is to replace, on a 1:4 basis, the fluorescent lights used on most electronic computers to announce trouble or indicate the progress in a problem's solution. Can be used for digital voltmeters and other forms of data board display. Stromberg-Carlson, Rochester 3, N. Y.

Circle 315 on Inquiry Card

C-R TUBES

Known as EIA Type 5BGP—(T51P) and 5BHP—(T54P), the tubes have 5 in. flat round faceplates, employ both electrostatic focus and deflection, and incorporate post ac-



celeration by use of a spiral band resistance winding which extends from tube faces to the vicinity of the deflection plates. They are completely interchangeable with the T51P and T54P. Type 5BGP—is 17½ in. overall length, while Type 5BHP—is 18¼ in. Both tubes available with P1, P2, P7 or P11 fluorescent screens. Electronic Tube Corp., 1200 E. Mermaid Lane, Philadelphia 18, Pa.

Circle 317 on Inquiry Card

TIME INDICATOR

Subminiature tube type CK1053 is for use in measuring operating time to a total of between 500 and 5000 hours with an accuracy of 5% or better and at power consumptions of only a few microwatts. It is a two-element tube. The operating current is passed through the tube whenever the equipment is in use. Inexpensive colorimeters are used to indicate elapsed time. Within certain limits,



the full scale life of the tube may be varied by means of the anode current used. Shelf life is 2 years or more. Raytheon Manufacturing Co., 55 Chapel St., Newton 58, Mass.

Circle 314 on Inquiry Card

WAVE MODULATOR CRT

A new short, lightweight version of the "Wamoscope," wave-modulated oscilloscope, a different type of CRT for radar, TV, and other electronic display applications is available. The new one is 17 in. lg., 13 in. shorter than the previous model behind it. The new tube weighs 2½ lbs., or 75% less, and has a rectangular face. Both have equivalent usable viewing areas in most applications. Advances



in the reduction of size and weight are extending its use into airborne equipment. Sylvania Electric Products, Inc., 1740 Broadway, New York 19, N. Y.

Circle 316 on Inquiry Card

INDICATOR TUBE

Type 6977 filamentary subminiature indicator triode with fluorescent anode is designed specifically for visual monitoring of transistorized computers and other transistor circuits. It is approximately 1½ in. lg. and less than ¼ in. dia. and gives a bright blue-green indication. It is designed for 20,000 hours life. The heater voltage is 1 v., 30 ma ac or dc. The anode draws 0.6 ma from



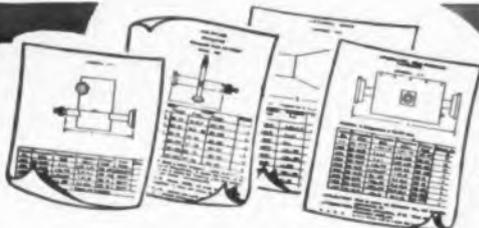
a 50 v. supply during the zero-bias "on" condition. 3.5 vdc is sufficient to cut off plate current and light. Amperex Electronic Corp., 230 Duffy Ave., Hicksville, L. I., N. Y.

Circle 318 on Inquiry Card

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Relays . . . All Types

THERMAL DELAY

A new thermal time delay resets instantly when its energizing circuit is interrupted, either during the timing cycle or after its completion. Type BR time delay unit contains thermal



and magnetic elements mounted in a single case. Available for standard delay intervals of 2, 5, 15, 20, 30, 60, 120, 180, and 300 seconds. Other delay intervals on special order. Energizing voltage is 28 vdc. Output contacts are either normally open or normally closed, spst. Contacts are rated at 2 a. up to 230 vac. and 1 a. up to 32 v. dc. G-V Controls, Inc., Hollywood Plaza, East Orange, N. J.

Circle 331 on Inquiry Card

CERAMIC RELAY

A new type of relay designed for use under severe environment conditions as in missiles and aircraft applications as well as in other electrical applications is now being produced. The contacts of the new relay are in a vacuum surrounded by a sturdy stacked ceramic enclosure. The type RA1 ceramic relay is a single pole-double throw relay; the type RA4 is a four pole-double throw



relay. The RA4 relay is about the size of a hen's egg and weighs approximately 1 lb. Jennings Radio Manufacturing Corp., P. O. Box 1278, San Jose, Calif.

Circle 332 on Inquiry Card

MINIATURE RELAYS

A series of micro-miniature relays that have long life at high temperatures is available. Both current-sensitive and voltage-sensitive models are offered. Designated as Series

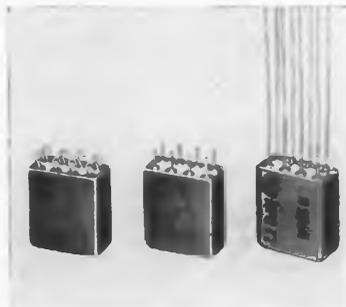


R600 (dpdt) and RS600 (spdt), these relays will withstand shocks of 50 G and vibration up to 2000 cps at 20 G. Contacts are rated at 2 a. resistive, 28 vdc or 115 vac. Continuous operation is possible throughout a temperature range from -65°C to $+125^{\circ}\text{C}$. Conform to or exceed Mil. Specs MIL-R-5757C. Iron Fireman Electronics Div. 2838 S.E. 9th Ave., Portland 2, Ore.

Circle 333 on Inquiry Card

SEALED RELAYS

A new hermetically sealed relay no bigger than a postage stamp is available. The Type F Relay is designed to fill the demand for a smaller, lighter relay stalwart enough to withstand extremes of temperature, heavy shock and vibration, yet fast and more than moderately sensitive. Rated for ambient temperatures from -65°v to $+125^{\circ}\text{C}$, it is tested for shock of 50 Gs for 11 msecs. Pickup time is



3.5 msecs. nominal; drop-out time 1.5 msecs. nominal. Contact rating is for 3 a. resistive at 28 vdc or 115 vac. C. P. Clare & Co., 4101 Pratt Blvd., Chicago 45, Ill.

Circle 334 on Inquiry Card

SMALL RELAY

A crystal-case size relay that employs a permanent magnet to obtain very high shock and vibration resistance has been announced. The micro-miniature relay remains operative un-



der shocks of 100G and vibrations of 30G to 2000 cps with no contact openings. Linear accelerations of 400 G do not open the contacts. Designated the SC, the relay measures 0.359 by 0.875 by 0.795 in. It weighs 17.5 grams. It operates on approximately 1 w. It is a dpdt relay capable of switching 2 a. at 30 vdc or 1 a. at 115 vac resistive. Potter & Brumfield, Inc., Princeton, Ind.

Circle 335 on Inquiry Card

MINIATURE RELAY

Available in 4 mounting styles the new 2-pole d.t. hermetically sealed micro-miniature relay is of rugged construction and has been designed to withstand shock of 50 G's, 11 msec; vibration of 10-55 cps @ 0.06 amplitude and 55-200 cps @ 20G; with an ambient temperature range of -65° to $+125^{\circ}\text{C}$. Additional "Powrmiter" specifications are: dielectric strength, 1,000 v. (750 v. between open con-



tracts); insulation resistance: 10,000 megohms min. @ 25°C ; contact arrangement is 2C (2 pole dt) with a rating of 2 a. resistive @ 28 vdc. Filtors, Inc., Port Washington, N. Y.

Circle 336 on Inquiry Card

FILTORS, INC.

LEADING MANUFACTURERS OF HERMETICALLY SEALED MICRO AND SUB-MINIATURE RELAYS.

POWRMITE[®]

new MICRO MINIATURE relay by Filtors,
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facture of micro miniature relays.



SPECIFICATIONS:

AMBIENT TEMPERATURE RANGE	-65°C. TO +125°C.
DIELECTRIC STRENGTH	1000 VOLTS. (750 VOLTS BETWEEN OPEN CONTACTS).
INSULATION RESISTANCE	10,000 MEGOHMS MINIMUM AT 25°C.
CONTACT ARRANGEMENT	2C (2 POLE DOUBLE THROW).
CONTACT RATING	2 AMPS RESISTIVE AT 28 VOLTS DC OR DRY CIRCUITS.
SHOCK	50 Gs 11 MILLISECONDS.
VIBRATION	10 - 55 CPS AT .06 AMPLITUDE. 55 - 2000 CPS AT 20 G.
PICK-UP TIME	7 MILLISECONDS MAXIMUM AT NOMINAL COIL VOLTAGE, 25°C. TEMPERATURE.
RELEASE TIME	7 MILLISECONDS MAXIMUM.
NOMINAL COIL VOLTAGE	26.5 VOLTS DC
COIL RESISTANCE	550 OHMS \pm 10% AT 25°C.
ALTITUDE	70,000 FEET.
DUTY	CONTINUOUS.
PICK-UP	RELAY SHALL PICK-UP WHEN COIL VOLTAGE IS 18 VOLTS DC MAX.

GENERAL PURPOSE



precision manufactured under rigid quality control. Offers lightweight, rugged, compact construction for high environmental conditions. Applicable to instrument, geophysical, aircraft controls and many other circuits where high reliability and multiple switching are required. Available in 2 DPDT, 4 DPDT and 6 DPDT.

LATCHING



relay remains in "energized" position indefinitely without consuming power. As an overload relay it can be electrically reset from a remote position. Contacts can be closed by one circuit and opened by another. It has many applications in fail-safe circuits. Its small size, light weight and hermetically sealed enclosure make possible its use in airborne and other equipment. Either coil may be energized continuously without damage to the relay.

It affords the designer great latitude in circuitry, particularly in "lock-up" circuits, e.g., where the contacts of one conventional relay are used to lock-up the coil of another relay. Thus it avoids redundancy. Available in 2 DPDT, 4 DPDT and 6 DPDT.

5/8 INCH STYLE



A rugged 2 pole double throw relay of small size and weight designed for high reliability under extreme conditions. Available with either 2 amp or dry circuit contacts.

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Products for Aircraft & Missiles

PACKAGED OSCILLATORS

A complete line of sub-miniature packaged crystal oscillators are available. Ruggedized for missile and other airborne applications, the following specifications are designed to



provide optimum frequency control: dimensions, 1 x 1½ x 4 in.; frequency stability, up to ± 1 part in 10⁶; frequency range, 180 KC to 50 MC; harmonic content, less than 5%. Available output voltage up to 50 volts peak to peak; input voltages, 75, 150, 250, volts for tube circuits 6 to 24 volts for transistorized circuits. Bulova Watch Co., Electronics Div. P-815, Woodside 77, N. Y.

Circle 355 on Inquiry Card

EVENT RECORDER

An Event Recorder, which instantly and simultaneously records up to 100 channels of on-off information in permanent chart record form is available. It is valuable in the checking of electrical and electronic sequences in missile and aircraft control systems, range timing readouts (time coding), the evaluation of telephonic communications systems, checking relay "chatter," contact-bounce, close-



time, and many other applications. It indicates the events, the duration and correlation with others as a function of time. Brush Instruments, 3405 Perkins Ave., Cleveland 14, Ohio.

Circle 356 on Inquiry Card

INVERTERS

A series of lightweight DC to AC power inverters for enabling portable, aircraft, and vehicular electronic equipment to be battery powered is now available. Standard units that



produce up to 250 va. from 28 vdc. input; custom units to 2 kva. Units can be made to meet MIL Spec. Typical of this series is model UAC 100 va/115-1000 which delivers 100 va (100 vac. 1000 cps at 1 A.) weighs 3½ lbs. and comes in a 3 29/32 x 3 11/32 x 5 7/32 in. package. DC to 3 ø AC units are available. Universal Transistor Products Corp., 143 E. 49th St., New York 17.

Circle 357 on Inquiry Card

AIRCRAFT TRANSFORMER

A new lighter molded aircraft current transformer is available. Used for metering and relaying on aircraft electrical systems, the unit has a 250/2 a. current ratio and operates on 115 v., 3 phase, 4 wire, 400 cycle systems. It is molded from a high-temperature insulating resin and will operate in ambient temp. from -55°C to +170°C. Conforms to specification MIL-T-7210 for type D-2 cur-



rent transformers. Max. height and width of 3.25 in., hole dia. of 1.12 in. min., and weighs less than 13 oz. Westinghouse Electric Corp., P. O. Box 2099, Pittsburgh 30, Pa.

Circle 358 on Inquiry Card

PRECISION OSCILLATOR

Precision power oscillators meet the performance requirements of pre-flight missile system checkouts, precision 400 cycle gyro testing, time correlation work and as special power



sources for critical requirements. DK-102 is designed especially for applications where "tuning fork" frequency stability, absolute voltage values, extremely low output impedance, ultra-low distortion and high power capacity are required. Models provide 2 and 6 w. output. Special models are available. Electronics Int'l Co., 145 W. Magnolia Blvd., Burbank, Calif.

Circle 359 on Inquiry Card

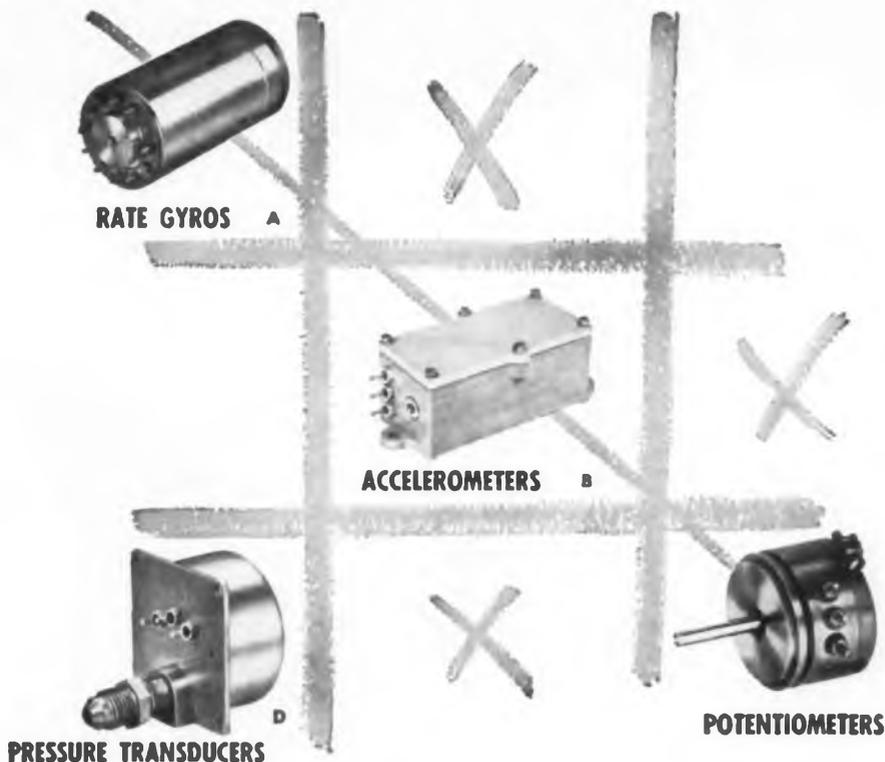
MIDGET TAPE RECORDER

A complete automatic miniature recorder-playback system for data acquisition during missile flight has been introduced. Model 600 automatically records 2 tracks of IRIG FM/FM subcarrier signals from 200 to 100,000 cps for a preset period ranging up to 250 sec. Application of a second signal causes it to play all recorded data backwards and then stop. A successive signal repeats the



cycle, erasing all previous data before recording. System weighs 21½ lb., and is small enough for mounting in the missile. Minneapolis-Honeywell, Davies Labs. Div., Beltsville, Md.

Circle 360 on Inquiry Card



All Winners —

COMPONENTS BY FAIRCHILD

A. RATE GYROS—Fairchild's Subminiature Floated Rate Gyro ($\frac{3}{8}$ " diameter \times 2" long) has uniform controlled damping for any required percentage of critical within $\pm 15\%$ through temperatures ranging from -40° to 200°F . This is the only subminiature Rate Gyro made that will take 100 g's of shock and 15 g's at 2000 cps vibration even at rates as low as 20° per second.

B. ACCELEROMETERS—Fairchild's Line of Accelerometers measure accelerations in the ± 1 to $\pm 100\text{G}$ range. It includes low, medium and high natural frequency units. Standard units have pot pick-offs; a. c. type pick-offs also available on special order. Outstanding features: Low cross talk, low friction, low hysteresis, excellent calibration and high voltage sensitivity.

C. POTENTIOMETERS—Fairchild's High Reliability Potentiometers can be had in $\frac{3}{8}$ " to 5" diameters, single and multi-turn, linear and non-linear, in standard and high temperature versions and with linearities as high as .009%.

D. PRESSURE TRANSDUCERS—Fairchild's Precision Line of Pressure Transducers include both bourdon tube and capsular diaphragm types for measuring pressures from 1 to 10,000 psi absolute, gauge, or differential. Standard units have pot pick-offs; a. c. type pick-offs available on special order. All designs withstand 2000 cps 25G vibration and 50G shock.

For more information regarding Fairchild precision components call the nearest Fairchild office or write Fairchild Controls Corporation, Dept. 20D.

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PRODUCT HIGHLIGHTS

ACCELEROMETER

Development of a self-calibrating accelerometer, designed primarily for control and guidance in aircraft and missiles has been announced. Additional applications include fire con-



trol, servo guidance and pitch and yaw correction characteristics. Known as the Glennite Differential Transformer Accelerometer, Model ADT-905, the unit is equipped with a self-contained calibration system which can be used to check the operation of the accelerometer while in use, or to calibrate the accelerometer statically or dynamically. Gulton Industries, Inc., 212 Durham Ave., Metuchen, N. J.

Circle 349 on Inquiry Card

TELEMETER EQUIPMENT

Designed for use in airborne or trailer-installed telemeter receiving stations and in portable ground check-out equipment, this 27-channel demultiplexing system occupies 19½ in. of panel height in a standard relay rack. Overall depth is 13 in. Model TDS30-1 Demultiplexing System is completely self-contained within 3 chassis assemblies consisting of gating unit,



pulse selector and regulated power supply. Two spare gating units are maintained on standby for instant use. Arnoux Corp., 11924 W. Washington Blvd., Los Angeles 66, Calif.

Circle 350 on Inquiry Card

Random, Complex and Sine Wave VIBRATION TESTING SYSTEMS

Whether you think of vibration testing as a means of prototype shake-down, or as a full quality control test on production runs, there's a Ling system for the job. Parts, components or even an entire missile, airplane or other major package can be tested to desired specifications with one of Ling's line of complete systems.

These systems include high-powered vibration generators with output ratings from 1 to 90 KVA, operating consoles, electro-mechanical shakers and accessory equipment as necessary for any specific test requirement.

Ling vibration systems are capable of producing a wide variety of tests, ranging from simple sine-wave sweeps to the exact reproduction of random or complex vibrations

which are tape recorded from actual missile flights.

Among the new developments in high powered electronics by Ling is a packaged vibration test system—the Sine-O-Matic. This compact unit contains everything necessary for fully automatic or programmed sine wave testing in a single, desk-type console. Only the shaker is separate.

Another example of Ling's leadership is a complete mobile testing laboratory capable of field testing an entire airplane, missile or any large component. Ling sales engineers will be happy to discuss your own vibration testing requirements, whether for a standard system or in solving advanced vibration test problems.

**PROVE
your
product's
reliability**



Model PP-90/140



Sine-O-Matic
Model PP-3-4



Mobile Vibration
Laboratory

This 20 KVA power generator and control console at Rocketdyne is one of 23 complete Ling systems at North American Aviation Divisions.



SHAKER FORCE OUTPUT

MODEL No.	RATED CONTINUOUS POWER OUTPUT	AMPLIFIER PLATE DISSIPATION	SINE WAVE FORCE-LOS VECTOR	RANDOM NOISE		ARMATURE PROTECTOR MODEL REQUIRED
				FORCE-LOS RMS	FORCE LBS. PEAK	
PA-250-B	250 watts	500 watts	70	—	—	—
PA-500-B	500 watts	800 watts	100	—	—	—
PP-1/2-B	1,000 watts	2,000 watts	200	—	—	—
PP-3/4-A	3,000 watts	4,000 watts	1,200	—	—	—
PP-7/8-B	7,000 watts	10,000 watts	1,200	840	2,520	AP-10-A
PP-20/20-C	22,000 watts	22,000 watts	3,500	2,500	7,500	AP-30-A
PP-40/40-B	44,000 watts	44,000 watts	5,000	3,500	10,500	AP-40-A
PP-60/60-A*	75,000 watts	80,000 watts	7,000*	5,000*	15,000*	AP-60-A
PP-60/60-A*	75,000 watts	80,000 watts	17,500*	12,000*	36,000*	AP-60-A
PP-90/140-A	90,000 watts	140,000 watts	21,500	14,000	42,000	AP-60-A

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Circle 170 on Inquiry Card, page 175

steatite, ceramic & lava insulators



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Custom-molded, extruded or machined to close tolerances to meet your exact specifications. Prompt delivery at low cost on large or small orders. Over half a century of service is your guarantee of complete satisfaction.

FIND OUT TODAY. Illustrated bulletin with complete technical data will be sent on request.

SUPERIOR STEATITE & CERAMIC CORP.

87 West Forest Avenue, Englewood, N.J.

West Coast Representative:

Yarbrough Sales Co., 2636 Mission St., San Mateo, Calif.

Circle 186 on Inquiry Card, page 175

HOLD ONTO THIS ISSUE!

You Are Now Using the MOST COMPREHENSIVE
DIRECTORY of Manufacturers and Their Products In
The Electronic Industry

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1ST ANNUAL ENGINEERING REFERENCE ISSUE

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ELECTRONIC INDUSTRIES'
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Closing Date for Advertising in 1959
EI REFERENCE AND DIRECTORY ISSUE: May 1st, 1959

ELECTRONIC INDUSTRIES Chestnut & 56th Streets
Philadelphia 39, Pa.

PRODUCT HIGHLIGHTS

SPOT WELDER

The rollectrode is a new lightweight device which simplifies and automates spot welding operations. It has a self-contained Mil-Spec motor which powers a welding wheel over the sur-



face to be welded. It is compatible with existing discharge type spot welders. Typical installations involve attachment of weldable strain gages, thermocouples, thermistors, and lead out wires for various electrical devices where adverse environmental conditions, such as shock, extreme temperatures, and high wind velocities exist. Micro-Test, Inc., 657 N. Spaulding Ave., Los Angeles 36, Calif.

Circle 351 on Inquiry Card

TELEMETERING OSCILLATOR

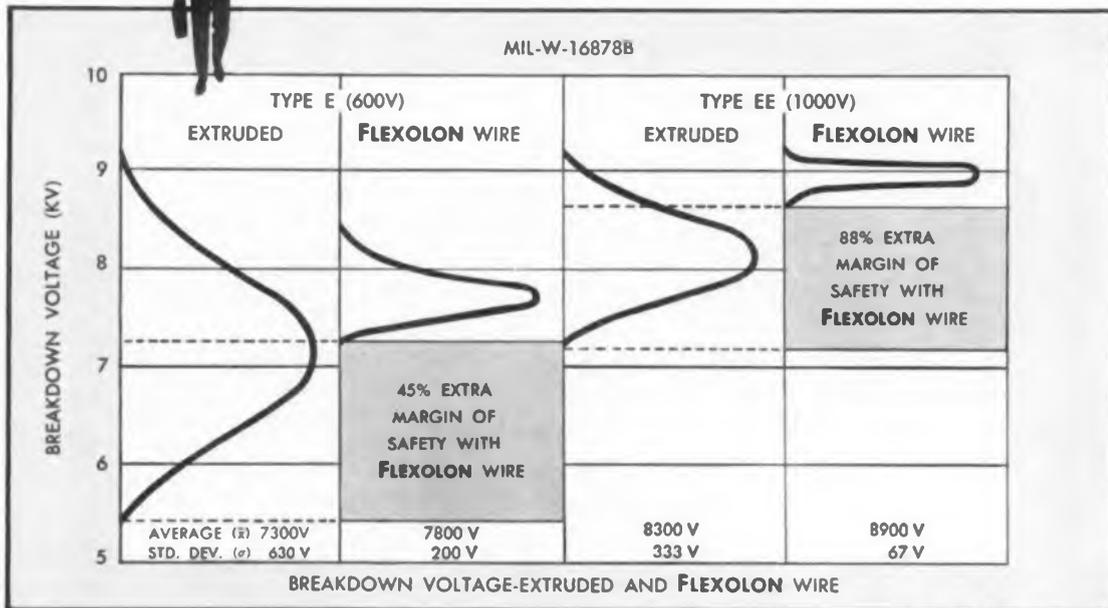
Voltage controlled telemetering oscillator, the "Little Jewel," features only one-hundredth the power requirements of the smallest VCO formerly available, yet has improved stability and linearity. Employing subminiature tubes and printed circuitry; nine plug-in oscillators, and operational mixer, and a self contained power supply are all packaged in a unit less



than 0.09 cu. ft. Power requirement per oscillator is 30 milliwatts and linearity is $\pm 0.5\%$ of F.B.W. while drift is held to less than $\pm 3\%$. Dorsett Laboratories, Inc., Norman, Okla.

Circle 352 on Inquiry Card

How the man  from Tensolite can widen your safety margins on 250° C. hook-up wire



New FLEXOLON hook-up wire with "Teflon" tape proves highest in dielectric strength

Superiority of Tensolite's new FLEXOLON wire, manufactured to exceed the requirements of MIL-W-16878B, Types E and EE, gives designers greater safety factor than ever before

If you want to widen the safety margins in your product or merely maintain the present margins with smaller wire, Tensolite's new FLEXOLON high temperature hook-up wire can solve your problem.

Rugged tests—In a series of extensive tests, FLEXOLON wire's dielectric strength was charted against the strength of extruded wire. Ten-foot samples, selected at random, were immersed in a water bath containing a suitable wetting agent for 4 hours. Each piece was then subjected to a high-potential test with voltage increasing from 0 at the rate of 3 kv per 10-second interval until breakdown was observed.

Results conclusive—In the type E category, extruded wire fell 45 per cent below FLEXOLON wire's minimum dielectric strength. In the type EE category, the extruded samples were 88 per cent lower than the minimum dielectric strength of FLEXOLON wire.

Extra advantages—Tensolite's unique process which permits application of 2½ times more layers of Raybestos-Manhattan R/M "Teflon" tape to FLEXOLON wire assures full insulation protection and far superior performance. The new technique also gives FLEXOLON wire perfect concentricity which provides easier stripping, faster and cleaner cuts, and added protection against strand damage.

Complete information—Ask the man from Tensolite for full details on the many advantages of FLEXOLON high temperature hook-up wire. Or write to Tensolite for informative FLEXOLON wire bulletin.



88 per cent extra margin of safety—This high potential test proved that Type EE extruded wire fell 88 per cent below FLEXOLON wire's minimum dielectric strength.

Tensolite INSULATED WIRE CO., INC.

West Main Street, Tarrytown, N. Y. • Pacific Division: 1516 N. Gardner St., Los Angeles, Calif.

"FLEXOLON" is a trademark of Tensolite Insulated Wire Co., Inc.

"TEFLON" is a registered trademark of the DuPont Company

Circle 171 on Inquiry Card, page 175

STOCKED BY LOCAL DISTRIBUTORS
... FOR IMMEDIATE DELIVERY



THE dependable 10-TURN
PRECISION POTENTIOMETER

SPECTROL MODEL "810"

A HIGH QUALITY INSTRUMENT AT LOW COST... THE "810" FEATURES A MACHINED, STABLE HOUSING... SHAFT BEARINGS AT BOTH ENDS... 1000 OUNCE-INCH STOPS... $\pm 0.3\%$ STANDARD LINEARITY... AND IT IS STOCKED IN 10 RESISTANCE VALUES FROM 100 OHMS TO 100,000 OHMS.

1 to 10
\$10.00 ..

CALL YOUR LOCAL DISTRIBUTOR FOR OTHER SPECTROL PRECISION POTENTIOMETERS IN STOCK... INCLUDING THE MINIATURE 10-TURN MODEL "500", THE 3-TURN MODEL "830" AND THE SINGLE-TURN MODEL "130"... OR CONTACT THE FACTORY



SPECTROL

SPECTROL ELECTRONICS CORPORATION

1704 South Hill Map Avenue San Gabriel California
Atlantic 7-9761 - Cumberland 7-5143

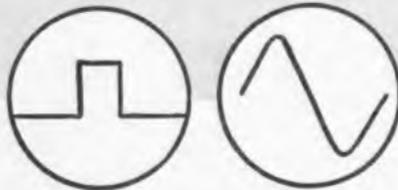
Circle 184 on Inquiry Card, page 175

TRANSISTORIZED MODULAR FREQUENCY METER



MODEL FM-241

\$125⁰⁰



10 CYCLE TO 100KC • $\pm 2\%$

7 RANGES 100 • 300 • 1KC • 3KC
10KC • 30KC • 100KC

INPUT 0.1 Volt to 120 Volts

PULSE RESPONSE Down to 1% Duty Cycle

This instrument is a 1/2 Module of the TLI Modular Instrumentation System and may be rack mounted with Modular Rack Adapters or placed on a bench using the Modular Stack Pedestal.



TELETRONICS LABORATORY, INC.

54 KINKEL STREET
WESTBURY, L. I. N. Y.



520

Circle 185 on Inquiry Card, page 175

PRODUCT HIGHLIGHTS

TELEMETERING TRANSMITTER

Transistorized to practical limits, a new 200 w. PM transmitter increases substantially the effective range of FM/FM telemetering. The new equipment is complete in a



single unit. It occupies 67 cu. in. The new units transmit in the 215-235 MC range with frequency stability of $\pm 0.01\%$ up to 71° C. Higher frequencies are possible with minor modifications. Basic unit also can be modified to operate at power outputs as low as 25 w. Integral "heat sink" provisions are suited to missile requirements. Texas Instruments Incorporated, 6000 Lemmon Ave., Dallas 9, Tex.

Circle 353 on Inquiry Card

TAPE SYSTEM

Pictured here is the "Minhan" wide-band magnetic tape system. It is one of a number of similar machines designed and built for specific wide-band applications. Variations of the equipment can be used for the recording of radar impulses, spectrum monitoring, TV signals, telemetry, or waveform analysis. The machines are particularly noteworthy because of their abil-



ity to record as many as seven channels, up to 2½ MC on each channel, simultaneously, on ½ in. tape. Minnesota Mining & Mfg. Co., 11701 Mississippi Ave., Los Angeles 25, Calif.

Circle 354 on Inquiry Card

ELECTRONIC INDUSTRIES • June 1950

VARO



PRECISION Electronic Equipment Airborne & Ground

TRANSISTOR INVERTERS



Model 4307

250 VA, 400 cps. Available at other ratings. Also electronic and rotary inverters.

FREQUENCY METERS



Model 6506

400 cycle, direct reading, .05% accuracy. Other models for use in laboratories, ground power units.

FREQUENCY CONTROLS



Model 4677

400 cycle phase lock design. Regulates constant speed drives to .1%.

GROUND SUPPORT SYSTEMS



Model 2615

15 KW 400 cycle \pm 1% motor-clutch-generator with automatic tracking and load transfer. Other models 1.5 to 18 KVA.

COMMUNICATIONS SYSTEMS



AN/TRC 42

Complete VHF radio-telephone for ground-air communications. Remote tone control, electronic hybrid among other units.

OTHER EQUIPMENT

Measuring-Protection

- Speed
- Frequency
- Voltage
- Current

TACHOMETERS



Electronic-transistorized. Magnetic pickup. For high temperature and extreme vibration applications. No brushes or slip rings.

MAGNETIC COMPONENTS



Magnetic amplifiers, toroids, reactors and transformers. Potted, canned or open.

DEMODULATORS - FREQ. STDS.



Transistorized modulators and demodulators. Bi-metal tuning forks and frequency generators, 350-4000 cps.

VARO Mfg. Co., Inc. 2201 Walnut Street, Garland, Texas
BRoadway 6-6141

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Los Angeles 45, California
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E. F. DESMOND
P.O. Box 493
Fountainbleau, New York
Globe 4-7611

Items for Computers

TIME CODE GENERATOR

An airborne time code generator, employing transistor-driven magnetic cores, is being produced. Unit is designed for missile and aircraft instrumentation. The 1½ cu. ft. unit



supplies a 16-bit, 24-hour binary code to hours, minutes and seconds. Signals generated by the equipment are suitable for recording timing marks or time codes on magnetic tape, oscillographs or to energize neon lights for indicating time code on the edge of motion picture film in optical instrumentation equipment. Electronic Eng. Co. of Calif., 1601 E. Chestnut Ave., Santa Ana, Calif.

Circle 415 on Inquiry Card

FERRITE MEMORY CORE

A new low-drive ferrite core for use as an information storage device in electronic computers is available. Designed to operate in the 300-500 ma. range, it features a high output



signal and fast switching speed for a low-drive core. HCA-222M1 core is made of a special ferromagnetic spinel. Functioning in a coincident current memory, it will produce an undisturbed "1" output signal of 64 mv. peak, a disturbed "0" output signal of 8 mv. peak and a switching time of 2.1 sec. when subjected to a typical driving current of 400 ma. RCA, Camden 2, N. J.

Circle 417 on Inquiry Card

SIGNAL DELAY LINE

The signal enhanced delay line consists of several sections, each composed of a delay line, an amplifier, a video transformer, a clipping diode and a cathode follower. Improvement



in the fidelity of pulse shape resulting from use indicates, among potentialities, an application in a demodulator for pulse code trains such as are used in air traffic control systems. Another application is the use of the delay line in computer operation where narrow pulses will permit an increase in the rapidity of calculation. Packard-Bell Electronics Corp., 12333 W. Olympic Blvd., Los Angeles 64, Calif.

Circle 419 on Inquiry Card

MAGNETIC CORE TESTERS

Two new current drivers were designed for testing of square loop, tape wound, bobbin cores. Type 3003 is a high impedance, high current source and produces negative current pulses. Type 3004 is designed for low impedance operation functioning as a cathode follower producing positive current pulses. Each unit has coarse and fine controls for continuous adjustment of the rise time (0.2 to 1.0



μsec.), the duration (1.0 to 10 μsec.), and the amplitude (up to 1.0 a.) of the rectangular output pulse. Burroughs Corp., 1209 Vine St., Phila. 7, Pa.

Circle 416 on Inquiry Card

DATA PROCESSING

A new system named MADIS, is derived from "Millivolt Analog-Digital Instrumentation System." It follows the building block concept. The basic portion of the system consists of Commutator, Analog to Digital Converter, Control and Timing Unit, Digital Tape Recorder and a unique built-in Test and Monitoring System. Beyond this point, the system may be expanded, using standard building



block components, to fill virtually any data processing system requirement. Custom installations are available. Arnoux Corp., 11924 W. Washington Blvd., Los Angeles, Calif.

Circle 418 on Inquiry Card

VARIABLE DELAY UNITS

Five new continuously variable delay lines for use as components or as test equipment in the design and development of advanced computer and radar systems are available. One control shaft, in 10 turns, covers the entire delay range. A locking device can be supplied to lock the unit at the desired delay. They can be used as components in equipment with a fixed delay, or as continuously vari-



able test units. Resolution is better than 1/1000 of maximum delay. Termination is external. They meet all applicable Mil-Specs. ESC Corp., 534 Bergen Blvd., Palisades Park, N. J.

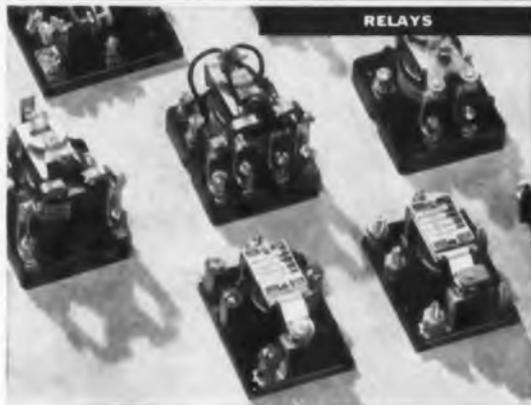
Circle 420 on Inquiry Card



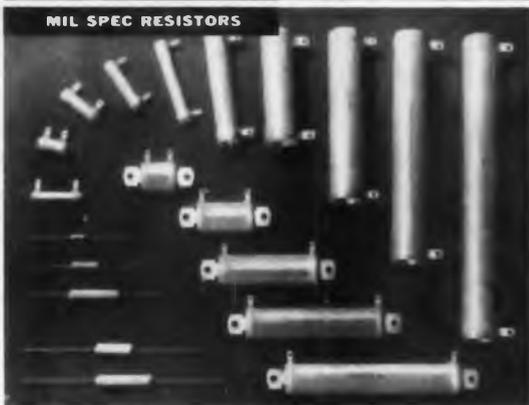
VITROHM RESISTORS



VITROHM RING RHEOSTATS



RELAYS



MIL SPEC RESISTORS

4 tips for design engineers

VITROHM® Resistors, stock and made to order

FORM	WATTS		RESISTANCE VALUES (ohms)	
	Stock	Made to Order	Stock	Made to Order
VITROHM: Fixed	5 to 200	5 to 218	1 to 250,000	0.2 to 1,750,000
Adjustohm	10 to 200	10 to 218	1 to 150,000	0.3 to 525,000
STRIPOHM	20 to 75	20 to 75	1 to 65,000	0.1 to 115,000
AXIOHM	3, 5, 10	3, 5, 10	1 to 50,000	0.25 to 50,000
NON-INDUCTIVE	35 to 160	10 to 160	1 to 1,000	0.86 to 14,100
PLAQOHM	25 to 150	25 to 150	1 to 10,000	0.5 to 86,400
DISCOHM	24	24	1 to 4,000	1 to 5,760
RIBFLEX	Not Available	75 to 550	Not Available	0.04 to 66

VITROHM Ring Rheostats

25 W, 1 min to 5,000 max ohms
 50 W, 1 min to 10,000 max ohms
 100 W, 1 min to 10,000 max ohms
 150 W, 1 min to 10,000 max ohms
 300 W, 1 min to 2,500 max ohms

Relays

Sensitive—2 amp, 125v, a.c. max
 Midget—6 amp, 125v, a.c. max
 Heavy duty midget—15 amp, 125v, a.c. max
 Multi-pole—10 amp, 125v, a.c. max
 Heavy duty—25 amp, 125v, a.c. max

Mil Spec Resistors

All styles, all sizes, all characteristics and all resistance values listed in Military Specification MIL-R-26C. Ask for BULLETIN 12

7-48

LIVE BETTER...Electrically



Write for a complete listing and specifications on Ward Leonard resistors, relays or rheostats. Ward Leonard Electric Co., 94 South Street, Mount Vernon, New York. (In Canada: Ward Leonard of Canada, Ltd., Toronto.)



WARD LEONARD
ELECTRIC COMPANY
 MOUNT VERNON, NEW YORK



RESISTORS



RHEOSTATS



RELAYS



CONTROLS



DIMMERS

Result-Engineered Controls Since 1892

YOKE

specialists



COMPLETE LINE for every Military and Special purpose . . . in PRODUCTION QUANTITIES . . . or CUSTOM DESIGNED to your specific requirement.

syntronic

INSTRUMENTS, INC.

100 Industrial Road, Addison, Ill., Phone Kingswood 3-6444
Circle 164 on Inquiry Card, page 175

MICA TRANSISTOR MOUNTING WASHERS



and VACUUM TUBE SPACERS



Better performance at less cost where washer insulation and durability are critical, Reliance offers an excellent quality MICA—the perfect dielectric that does a better job for less! Reliance MICA keeps its shape, strength and heat-resistant qualities far beyond the capacities of other insulators. Standard shapes available for immediate delivery . . . also custom jobs.

RELIANCE

Write for details and price list.

RELIANCE MICA CO., INC.

341 39th Street • Brooklyn 32, New York

524

Circle 165 on Inquiry Card, page 175

PRODUCT HIGHLIGHTS

COMPUTER TRIODE

A medium-mu twin triode (RCA-6350) of the 9-pin miniature type, designed for use in a wide variety of applications in electronic computers of the high-speed digital type, and



other "on-off" control equipment is available. The 6350 maintains its emission capabilities even after long periods of operation under cut-off conditions. Balance of cut-off bias between the two units of the tube is closely controlled during manufacture. It has separate terminals for each cathode and a mid-tapped heater for a 6.3-volt or 12.6-volt supply. Radio Corporation of America, Harrison, New Jersey.

Circle 409 on Inquiry Card

TIME-MARK GENERATOR

Type RM181 generates 5 time markers — 1, 10, 100, 1000, and 10,000- μ sec, and a 10 MC sine wave. Output amplitude is about 2 v. Outputs are available at a common coaxial connector. The 5 time markers are also available at front-panel binding posts. The markers and sine wave are derived from a 1 MC crystal-controlled oscillator. Dimensions are: 5 $\frac{1}{4}$ high,



19 wide, 9 $\frac{1}{4}$ in. rack depth, 11 in. overall depth. Available with a temperature-stabilized crystal oven installed. Tektronix, Inc., P. O. Box 831, Portland 7, Oregon.

Circle 410 on Inquiry Card

ELECTRONIC INDUSTRIES • June 1958

CLEVITE ELECTRONIC COMPONENTS

MAGNETIC HEADS

AUDIO

Single channel and stereo record-reproduce and erase heads for home and studio recorders and players. A broad selection of standard and special designs to meet specific requirements.

- precision lapped gaps
- Mu metal housing
- moisture proof
- non-microphonic
- balanced magnetic construction
- dimensionally stable
- single hole mounting
- high output
- all winding leads accessible
- laminated pole structure—0.006" laminations

INSTRUMENTATION

Precision heads for commercial, industrial, scientific and military applications . . . in 1 to 32 channel form . . . in a wide variety of electrical and mechanical configurations. These heads, slightly modified, may fit your present design requirements.

- machine and process control
- instrumentation
- audio and video recording
- missile guidance
- business and scientific computer

FLUX-RESPONSIVE HEADS for low speed or static read-out of digital data, reproduction of high frequency analog recording at low tape speeds, extended-period process control, reproduction of low frequency recording, measurement of low angular or low linear velocities and recorded transients, position control.

HIGH RESOLUTION HEADS for recording more information at same tape speed and/or equivalent data at slower speed. Applicable in radar recording, high density tape recording, high density drum recording, video recording, VHF instrumentation for missile telemetering.

PIEZOELECTRICS



Ceramic Shapes — "PZT-4" (Curie point above 572°F) . . . Ceramic "B" (Barium Titanate with certain additives) for missile devices, capacitors, sonar transducers, ultrasonic cleaning equipment. Plates, tubes, discs and custom segments.



Crystal Shapes — Plates cut from whole crystals of Rochelle Salt, ammonium dihydrogen phosphate (ADP).

*Reg. TM

Elements — Crystal "Bimorphs", "PZT", "Bimorphs" and "Multimorphs" to exact electro-mechanical specifications.



single-channel heads

stereo heads



Gap-Mounted—Contains two head cartridges, easily removed and replaced with no close adjustment. Bracket, cartridges have lapped surfaces providing reference positions to gap perpendicularity, azimuth and contact adjustment.

Integral Block Interface—Provides twice the number of channels than possible with a single head of the same width. Minimum crosstalk at no sacrifice in number of tracks. Clevite builds heads of this design to telemetering standards of performance.



Redundant—Close-spaced record-reproduce double head speeds data processing by reading and checking tape immediately after recording. Reduces necessary equipment and power for checking register.



Drum—Permits simultaneous adjustment of many channels. Most precision adjustments are built into the head.

'BRUSH' HEADPHONES

Single and double types with "Bimorph" crystal drive of high impedance. Wide range response with uniform output, lightweight, rugged, shockproof. Extended range, high fidelity, general purpose models.



High Fidelity—Model BA-206 provides exceptionally flat frequency response.



General Purpose—Model BA-200 for lab, studio, skilled amateur use. High impedance, ideal for multiple installations.

for complete information write

CLEVITE ELECTRONIC COMPONENTS

DIVISION OF

3313 Perkins Avenue

CLEVITE
CORPORATION

Cleveland 14, Ohio

Circle 176 on Inquiry Card, page 175

MINIATURE ELECTRONIC INSTRUMENTS



Millivolts . . . microamperes . . . ohms
 . . . phase angle . . . From 8 standard
 shapes and sizes and 65 stock models,
 hundreds of special instruments have
 been delivered to meet exact customer
 requirements.

• *Quality*

• *Reliability*

specially
 designed
 for
PANEL MOUNTING
 by
trio

Write for free "how to"
 Engineering Guide
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trio LABORATORIES, INC.

4025 merrick road • seaford, new york
 Circle 180 on Inquiry Card, page 175

20th. June / 26th. June

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 23, rue de Lübeck, PARIS 16^e - Téléphone : PASsy 01-16

**PRODUCT
 HIGHLIGHTS**

ANALOG CONVERTER

The Type 525 Encoder (analog to digital converter) is available. It is an all-electronic converter designed to provide precise dependable conversion of analog input data to

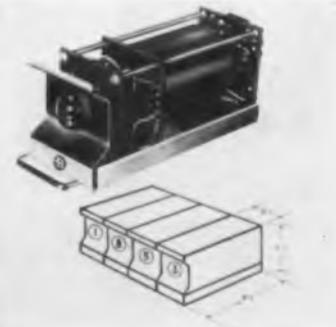


digital output voltages. Particular emphasis is placed upon accuracy and resolution. Operates over a wide range of environmental conditions. It makes possible the use of versatile, noise-free digital transmission and computing techniques to a greater degree of accuracy. With a Model 1002 Decoder, it can solve problems in many data processing applications. Avion Div., ACF Industries, Inc., 800 N. Pitt St., Alexandria, Va.

Circle 411 on Inquiry Card

DECADE COUNTER

A new decade counter with an all-electronic numerical readout is now available. Made with beam switching tube type 6700 and Nixie indicator tube type 6844, the unit displays numerical information that is directly controlled by a single counter tube. Precise "in-line" figures are visible 30 to 40 ft. Plug-in units have been designed for a minimum panel height



and may be cascaded to provide any desired count capacity with provisions for manual and electronic zero setting. Electronic Tube Div., Burroughs Corp., Plainfield, N. J.

Circle 412 on Inquiry Card

connect with GANNON PLUGS

27,000 kinds to choose from!
If we don't have what you want,
— we'll make it for you.

**Largest facilities in the world for plug
research, development and manufacturing**

USE
for

**AIRCRAFT
and ELECTRONIC
INSTRUMENTS**

TYPICAL DESIGNS



MS, MS-A, MS-B, MS-C... Conforming to Specification MIL-C-5015C. 15 insert diameters and 260 contact layouts. 6 shell styles, MS3100 to MS3108 with all accessories. Also (MS) F.

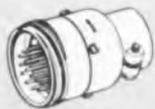


for **VIBRATION
RESISTANCE
and MOISTURE-
PROOF** applications



MS-E SERIES... environment resisting. Meets Specification MIL-C-5015C. Resilient inserts. Integral cable clamp. New grounding lugs. Interfacial sealing, improved grommet and new grommet follower.

for **GENERAL
CIRCUITRY** and
QUICK DISCONNECT
in more rugged
applications



K, RK SERIES... **SPECIAL ACME THREAD**. The All-Purpose Series. Conduit and cable clamp entry types. 1 to 82 contacts in 213 different contact layouts. 10-, 15-, 30-, 40-, 60-, 80-, 115-, and 200-amp. silver-plated contacts. High quality phenolic, melamine, and formica insulators. Cadmium-plated aluminum alloy shells.



for
UNIT-PLUG-IN
applications...



DP, DPB, DPD, DPD2, DPD2B, DPJ, AND DPS SERIES... Rack/panel/chassis. With and without shells; coaxial and high voltage contacts. Permit quick disconnect, interchange, replacement, testing and inspection of assemblies and sub-assemblies.

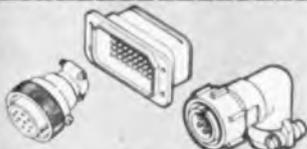
for **AUDIO
and LOW LEVEL
circuits**



P, XLR, XL, XK, O, UA, BRS SERIES... many shell styles and insert layouts. Straight and angle 90° plugs. Latch-lock types. Wall-mounting, panel, lock-nut mounting, and adapter receptacles, single- and two-gang. 10- to 30-amp. contacts, coaxials. UA Series features 3 gold-plated contacts.



for **RADIO and
SUB-MINIATURE**
applications



D, MC, DPA, DPX, AND K MINIATURES... miniatures and sub-miniatures designed for amplifiers, miniature indicators, computer circuits, telemetering equipment, small pre-amps, and general instrumentation where space is limited and current requirements are generally not over 5 amperes. Variety of shell styles, junction shell, and insert arrangements. 3 to 50 contacts, plus coaxials.

for **HERMETICALLY
SEALED**
applications



GS (MS TYPE), KH, RKH, DAH, BFH, TBFH, DBH, KH30... with steel shells and contacts to withstand high pressures from within or without. Insulation is a glass material, fused under high temperature to shell and contacts, thus forming a hermetic seal.

for **HIGH
TEMPERATURE
and firewall**
applications



MS-K, MS-"FW," AND CANNON K-"FW" STEEL SHELL CONNECTORS... Open flame protection offered in the greatest variety of this type of connector. Wall- or box-mounting receptacles. Straight or angle 90° plugs. Crimp-type contacts. Inserts of glass-filled materials.

Send for AR Condensed Catalog containing illustrations and technical information on all principal series of connectors in the extensive Cannon Line.



CANNON ELECTRIC COMPANY, 3208 Humboldt St., Los Angeles 31, California. Factories in Los Angeles, Salem, Mass., Toronto, Can., London, Eng., Melbourne, Austl. Manufacturing licensees Paris, Tokyo. Representatives and distributors in all principal cities.

please refer to Dept. 201

GANNON ELECTRIC

Since 1915



**New Home of
PREMIER INSTRUMENT CORP.**

33 New Broad St., Port Chester, N. Y.

48,000 Sq. Ft.
of waveguide
manufacturing
facilities



To Serve You Better

Offering complete facilities for manufacturing waveguide components from your drawings and specifications—or expert design and development to meet your needs.

Precision Cast Waveguides
Magnesium Aluminum Dip Brazing
Helic Arc Welding
Broadband Waveguide Components
Mixers • Duplexers • Rotating Joints
Hybrid Junctions • Attenuators
Waveguide Switches • Printed Circuit Waveguide

Write for illustrated Brochure



PREMIER INSTRUMENT CORP.

WAVEGUIDE HOUSE SINCE 1943

WEStmore 9-8900

Circle 182 on Inquiry Card, page 175

**NETIC CO-NETIC
MAGNETIC SHIELDING**

Non-Shock Sensitive, Non-Retentive, No Periodic Annealing, Shaped to Your Application

Permanently unaffected by shock or vibration from usage, drilling, cutting, punching, bending, etc. For maximum effectiveness, all possible joints are heliarc welded. Sheds magnetic forces like a duck's back sheds water. Will not become magnetized.



Permanently non-retentive—negligible residual magnetism. No periodic annealing required.

Provides simultaneous high and low intensity shielding as well as high and low frequency shielding or any one of them. Aids miniaturization by making possible placing components close together, even mounted on the shield itself. Can be furnished tinned, ready for soldering—without affecting shielding qualities. Available as raw material if desired for fabricating parts in your own plant.

Typical applications include tape container shields to protect broadcasting, military and automation tapes, cathode ray tube shields, photomultiplier tube shields, transformer shields, magnetron shielding, 7 & 9 pin tube shields, portable measuring chambers for simulated pressure, vacuum, altitude and non-pressurized testing of delicate instruments in laboratory or field, shields for motors, tape heads, submin. encap. uses.

MAGNETIC SHIELD DIVISION PERFECTION MICA CO.

1322 No. Elston Avenue • Chicago 22, Illinois

NOW! Wrappable Foil 15" wide (Co-Netic) and 19 3/8" wide (Netic) simply, quickly shaped to enclose any component, insuring immunity from any interfering magnetic fields. Also aids miniaturization, increases your market.

528

Circle 183 on Inquiry Card, page 175

**PRODUCT
HIGHLIGHTS**

CURRENT PULSE GENERATOR

Model 1020 programmed current pulse generator is a "packaged" system, providing precisely controlled, fully programmed current pulses for the research, development and pro-



duction testing of digital systems and components. Programming is based on an 8 step, periodically repeated pattern with a maximum step repetition frequency of 200 KC. PRF of up to 400 KC. may be obtained. Some features are synchronization with external equipment before any one or more discrete pulse events and 10-turn current controls on all 4 amplifiers. Rese Engineering, Inc., 731 Arch St., Philadelphia 6, Pa.

Circle 413 on Inquiry Card

VARIABLE DELAY LINES

Type 521 series was developed to meet an increasing need of continuously variable time delay with maximum delay time over 15 microseconds. Size is 4 x 4 x 4 in., and weight of unit is approximately 2 1/2 lbs. Features for this device are good stability, fast rise time, repeatability, better than 1/2 millimicrosecond, and freedom of time jitter. Rise time is



less than 8% of the time delay at any point. Three models are available with different maximum time delays. Advance Electronics Lab., Inc., 249 Terhune Ave., Passaic, N. J.

Circle 414 on Inquiry Card



THE VICTOREEN INSTRUMENT COMPANY

5806 HOUGH AVENUE • CLEVELAND 3, OHIO

GLASS-SEALED DEPOSITED CARBON RESISTORS

RESISTOR DATA CHART

TYPE	RESISTANCE	TOLERANCE	VOLTAGE COEF. %/V	TEMP COEF. %/°C	MAX. W. W.	WATTAGE	MAX. TEMP. °C	DIMENSIONS		
								A (MAX.)	B (MAX.)	C (MIN.)
R12	1 Meg to 50 Meg	1,2.5,10,20 Note 1	-0002	-0.08	3000	1	125	2	.413	1 1/2
R13	1 Meg to 200 Meg	1,2.5,10,20 Note 2	-0002	-0.08	10,000	3	125	3 1/4	.413	1 1/2
R14	200 ohm to 50 Meg	1,2.5 Note 2	-0002	-0.08	800	5	200	2	.413	1 1/2
R15	200 ohm to 200 Meg	1,2.5 Note 3	-0002	-0.05	2000	10	200	3 1/4	.413	1 1/2
R18	100 ohm to 10 Meg	1,2.5	-0002	-0.05	750	2	200	1 1/2	.240	1 1/4

NOTE 1: 1% and 2% tolerance available only below 20 meg.
 2: 1%, 2% and 5% tolerance available only below 100 meg.
 3: 1% and 2% tolerance available only below 100 meg.



HI-MEG RESISTORS

GLASS SEAL: HI-MEGs are vacuum sealed in a glass envelope which is treated with a special silicone varnish which keeps the resistor relatively free from the effects of moisture.

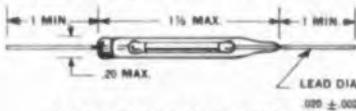
RESISTANCE: HI-MEG resistors are available in values from 10^0 to 10^{11} ohms.

TOLERANCE: HI-MEG resistors can be supplied in the following tolerances: 1% below 10^{11} ohms, 2% and 5% below 10^{11} ohms, and 10% over the entire range.

MAXIMUM WORKING VOLTAGE: 1000 volts.

MAXIMUM OPERATING AMBIENT TEMPERATURE: 100°C.

POWER RATING: The power rating for any HI-MEG resistor is equal to one divided by the resistance in megohms.



ELECTROMETER TRIODE VX-55



TYPICAL OPERATION AND TEST CONDITIONS

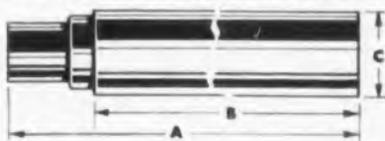
E_f	1.25	Volts	I_f	85	μ ma
I_f	100	ma	G_m	110	μ mho
E_p	7.5	Volts	I_p	5×10^{-11}	amp
Z_g	-2.2	Volts	M_{10}	21	

ELECTROMETER TETRODE 5800/VX-41A

AS A TETRODE ELECTROMETER

Plate Voltage	+4.5	Volts	Transconductance	15	μ mho
Accelerator Grid Voltage (p)	+3.4	Volts	Plate Current	12	ma
Control Grid Voltage (g)	-3	Volts	Accelerator Grid Current	300	μ a
Amplification Factor	1		Control Grid Current	10^{-11}	Amp

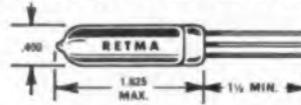
CORONA TYPE VOLTAGE REGULATORS



Commonly Used Metal Regulators*

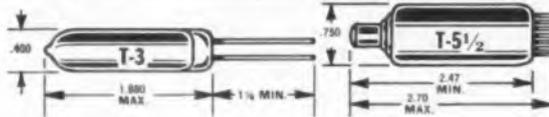
TYPE	VOLTAGE RANGE	TOLERANCE	NOM. TEST POINT	CURRENT		REGULATION % (500 μ a)	DIMENSIONS		
				MAX.	MIN.		A	B	C
M108B	6 KV-10 KV	$\pm 50V$	500 μ a	1000 μ a	50 μ a	7 1/2%	8 1/4	5	1 1/4
M105	10 KV-20 KV	$\pm 50V$	300 μ a	1000 μ a	100 μ a	10%	8 1/4	5	1 1/4
M108	10 KV-20 KV	$\pm 50V$	500 μ a	1000 μ a	100 μ a	7%	9 1/4	8	1 1/4
M126	20 KV-25 KV	$\pm 50V$	500 μ a	1000 μ a	100 μ a	10%	7 1/4	8	1 1/4
M128	20 KV-27 KV	$\pm 50V$	500 μ a	1000 μ a	100 μ a	7%	9 1/4	8	1 1/4

CORONA TYPE VOLTAGE REGULATORS



R. E. T. M. A. Types

TYPE	NOM. VOLTAGE	TOLERANCE	NOM. TEST PT.	CURRENT IN μ a			REGULATION	
				MIN.	MAX.	PEAR.	VOLTS	CURRENT RANGE
5850	700V	$\pm 15V$	25 μ a	5	100	150	14V	5-100 μ a
5841	800V	$\pm 18V$	25 μ a	5	100	150	18V	5-100 μ a
6143	1200V	$\pm 24V$	25 μ a	10	100	150	24V	5-100 μ a
6110	2000V	$\pm 100V$	25 μ a	15	100	150	40V	5-100 μ a

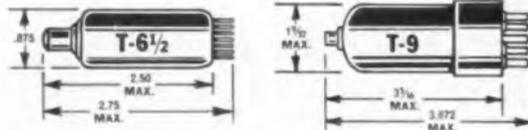


Commonly Used Models in T-3 Size*

TYPE	NOM. TEST PT.	TOLERANCE	NOM.	CURRENT IN μ a			REGULATION	
				MIN.	MAX.	PEAR.	VOLTS	CURRENT RANGE
GV3B-400	50 μ a	$\pm 10V$	400V	5	150	300	15V	5-150 μ a
GV3B-600	50 μ a	$\pm 10V$	600V	5	150	300	20V	5-150 μ a
GV3A-900	50 μ a	$\pm 15V$	900V	10	250	350	25V	10-250 μ a
GV3A-1200	50 μ a	$\pm 30V$	1200V	10	250	400	40V	10-250 μ a
GV3A-1500	50 μ a	$\pm 30V$	1500V	15	300	500	50V	15-300 μ a
GV3A-2000	50 μ a	$\pm 50V$	2000V	15	300	500	75V	15-300 μ a

Commonly Used Models in T-5 1/2 Size*

TYPE	NOM. VOLTAGE	TOLERANCE	NOM. TEST PT.	CURRENT IN μ a			REGULATION	
				MIN.	MAX.	PEAR.	VOLTS	CURRENT RANGE
GV5B-700	700V	$\pm 20V$	100 μ a	10	250	350	25V	10-250 μ a
GV5B-900	900V	$\pm 25V$	100 μ a	10	300	500	30V	10-300 μ a
GV5B-1000	1000V	$\pm 30V$	100 μ a	10	300	500	35V	10-300 μ a
GV5A-1200	1200V	$\pm 30V$	100 μ a	10	400	600	40V	10-400 μ a
GV5A-2200	2200V	$\pm 65V$	100 μ a	20	800	1000	50V	20-800 μ a
GV5A-3000	3000V	$\pm 90V$	100 μ a	30	1000	1200	75V	30-1000 μ a



Commonly Used Models in T-6 1/2 Size

TYPE	NOM. VOLTAGE	TOLERANCE	NOM. TEST PT.	CURRENT IN μ a			REGULATION**	
				MIN.	MAX.	PEAR.	VOLTS	CURRENT RANGE
GV6A-450	450	$\pm 11V$	500 μ a	20	1000	1300	30V	
GV6A-1000	1000	$\pm 25V$	500 μ a	30	1000	1500	42V	
GV6A-2500	2500	$\pm 65V$	500 μ a	50	1500	3500	100V	
GV6A-3000	3000	$\pm 75V$	500 μ a	50	1000	3500	70V	

**This regulation is the change in voltage over the useful range of current from MIN. to MAX.

Commonly Used Models in T-9 Size

TYPE	NOM. VOLTAGE	TOLERANCE	NOM. TEST PT.	CURRENT IN μ a			REGULATION**	
				MIN.	MAX.	PEAR.	VOLTS	CURRENT RANGE
GV9A-800	800	$\pm 15V$	1000 μ a	50	1500	2000	25V	
GV9A-1000	1000	$\pm 25V$	1000 μ a	50	1750	2200	45V	
GV9A-2000	2000	$\pm 50V$	1000 μ a	50	3500	4200	80V	
GV9A-3000	3000	$\pm 75V$	1000 μ a	50	2700	7000	110V	

**This regulation is the change in voltage over the useful range of current from MIN. to MAX.

* T-3 size voltage regulators are available in any desired nominal voltage $\pm 2\%$ from 400 volts to 2000 volts at the customary test point of 50 μ a. T-5 1/2 size voltage regulators are available in any desired nominal voltage $\pm 3\%$ from 400 volts to 6000 volts at the nominal test point of 100 μ a. Metal regulators are available in any desired nominal voltage ± 500 volts from 7 1/2 KV to 27 1/2 KV at the customary test point of 500 μ a. All other characteristics such as maximum and minimum currents, regulation, etc., may be interpolated from the table.

Components for the Industry

TANTALUM CAPACITORS

Primarily designed for low voltage dc applications such as transistorized audio amplifiers, Type WT wire tantalum capacitors feature small size and operating temperature range of



-20° C to +50° C with adequate storage life. Of polar construction, the capacitor case and attached lead form the cathode terminal. Available in insulated and non-insulated construction. The anode tantalum wire extends through the teflon bushing to which a solderable lead is attached. It is encapsulated in a thermosetting resin. Aerovox Corp., New Bedford, Mass.

Circle 301 on Inquiry Card

ROTARY SWITCH

A tiny rotary switch that will fit in a 1½ in. circle, requiring less than one square inch of panel area is available. Designated as Series A, it can be supplied in 8, 10, and 12-

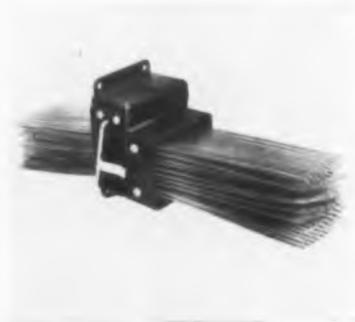


position wafers, with the latter providing up to 18 insulated contacts. Standard shaft diameter is ¼ in., but 5/32 in. and ¾ in. shafts are also available. Solid rivets fasten clips to the switch sections. Silicone fibre glass, meeting specification MIL-997 type GSC, is used for the switch stator. The rotor is punched from KEL-F. Oak Mfg. Co., 1260 Clybourn Ave., Chicago 10, Ill.

Circle 303 on Inquiry Card

PRINTED CABLE

A new type flexible printed cable has been designed with wide applications in missiles, aircraft and computers. It is made of silicone rubber with or without glass reinforcement

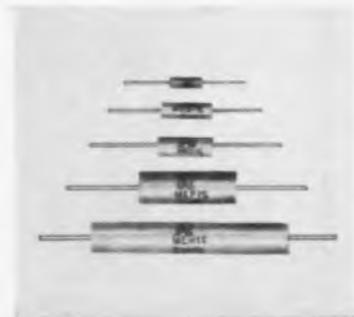


and shielding is available in the cover coat. It can be produced in any length and in various conductor patterns. Weight savings of 4:1 for signal cable and 2:1 for power cable are possible. Cable is designed for the Graphik Cable Harness System but will be engineered to individual requirements. Graphik Circuits Div., Cinch Mfg. Corp., 200 W. Turnbull Canyon Rd., La Puente, Calif.

Circle 305 on Inquiry Card

METAL FILM RESISTORS

Molded metal film resistors are available. The line has been increased to include 5 sizes—¼, ½, 1 and 2 watts. They offer high stability with low and controllable temperature coefficients, and will withstand full load at 125°C ambient. Units have a metallic resistive film firmly bonded to a specially compounded ceramic core. Intended for applications where high reliability is necessary, and a low con-



trolled temperature coefficient is required. Also, for applications of low inductance and/or shunt capacitance. International Resistance Co., 401 N. Broad St., Phila. 8, Pa.

Circle 302 on Inquiry Card

OUTPUT TRANSFORMERS

Two new high fidelity output transformers are available. Type LS-35 has a 5,000 ohm center tapped primary with 43% screen taps for use with EL-34 tubes in AB-feedback. Secondary impedances are 4, 8, and 16 ohms, frequency response +1 db. from 7 to 50,000 cps., 35 w. level. The LS-65 transformer is a similar unit of 60 w. rating, providing a 3300 ohm center tapped primary with 40%



screen taps for 6550's in AB-feedback. Both units are furnished with a circuit to provide maximum fidelity and stability. United Transformer Corp., 150 Varick St., New York 13.

Circle 304 on Inquiry Card

ELECTROLYTICS

Type EC aluminum-foil electrolytic capacitors were specifically designed for transistor and "low-B" tube applications where compactness is an important design factor. The smallest case size is 0.187 in. in diameter and ½ in. long, the largest size is 0.375 x 1½ in. They are available in ratings from 3 to 75 vdc working, and in capacitance from 1.0 to 250 mfd, depending on voltage rat-



ings. Operating temperature range is -20°C to +65°C. They are housed in special tubular ceramic cases. Cornell-Dubilier Electric Corp., South Plainfield, N. J.

Circle 306 on Inquiry Card

THE NATIONAL SCENE

TEN-TO-ONE THE Copper Clad Laminate YOU WANT IS HERE!

From these ten basic PHENOLITE® Grades, you can select the base material, resin, properties and price to fit your present printed circuit need.

If your problem is finding a suitable cold-punch material, try samples of XXXP-470-1. It's designed for use in automated production equipment. If you are looking for higher heat resistance, check Grades G-10 and G-11.

Out of National's research laboratories come new advances every day. See your National Representative about new products and applications. He can keep you posted on the full line of PHENOLITE Laminated Plastic, Vulcanized Fibre and National Nylon for electronic applications across-the-board. In the meantime, write for our new "PHENOLITE Copper Clad Data" folder. Address Department F-6.



NATIONAL
VULCANIZED FIBRE CO.
WILMINGTON, DE, DELAWARE

In Canada:
NATIONAL FIBRE COMPANY OF CANADA, LTD., Toronto 3, Ontario

TYPICAL TEST VALUES ON COPPER CLAD PHENOLITE

GRADE	PROPERTIES OF BASE MATERIAL					COPPER CLAD PROPERTIES			RELATIVE COST Based on XXXP on Arbitrary Scale of 1	
	Dielectric Constant	Dissipation Factor	Moisture Absorption 1/16", @ 24 Hrs	Flexural Strength Psi	Maximum Operating Temperature Degree F	Copper Bond Strength		Hot Solder Resistance Secs to Dissolve 1" Square > Greater Than		Surface Resistance Megohms, Etched Reima Comb Pattern, @ Hrs. 35°C/90% RH
						Panels to Pull 1" Strip				
						1 Oz	2 Oz			
P-214-B-1	5.3	.040	2.20	18,000	250	8	11	> 10 (@ 475°F)	100,000	.81
XXP-209-G-1	4.6	.037	1.30	17,000	250	8	11	> 10 (@ 475°F)	200,000	.92
XXP-239-1 PHENOCLAD	4.2	.035	0.67	15,500	250	8	11	> 10 (@ 475°F)	200,000	.92
XXXP-219-C-1	4.5	.030	0.70	15,500	250	8	11	> 10 (@ 475°F)	500,000-1,000,000	1.00
XXXP-455-1	4.0	.026	0.55	23,500	250	8	11	> 10 (@ 475°F)	1,000,000-1,500,000	1.00
XXXP-470-1	3.7	.027	0.48	14,000	250	8	11	> 10 (@ 475°F)	300,000-500,000	1.00
N-1-852-1	3.3	.030	0.20	16,000	165	8	11	> 10 (@ 450°F)	2,000,000	2.69
G-5-813-1	6.8	.018	1.00	55,000	300	8	11	—	—	2.98
G-10-865-1	5.2	.012	0.13	60,000	250	10	15	> 30 (@ 500°F)	1,500,000-2,000,000	3.49
G-11-861-1	4.9	.015	0.17	60,000	300	10	15	> 30 (@ 500°F)	2,000,000	3.55

Circle 179 on Inquiry Card, page 175

HOW BORG EQUIPMENT DIVISION CAN HELP YOU

Our business is helping to solve design and production problems in the use of components for the highly specialized electronics industry. Borg's background provides the experience necessary to design and produce various types of components for you . . .

MICROPOT® POTENTIOMETERS

Borg Micropots offer a wide range of high-precision, single-turn, multi-turn and trimming potentiometers. *Registered trademark of The George W. Borg Corporation.

MICRODIALS

Direct Reading Microdials and Concentric Scale Microdials.

INSTRUMENT MOTORS

Rugged, dependable Borg-Motors are designed for quality instrument applications.

AIRCRAFT INSTRUMENTS

Instruments for commercial and military aircraft.

FREQUENCY STANDARDS

To meet your requirements in Frequency Standards for military or industrial applications.

TEST EQUIPMENT FOR AUTOMATION

Invaluable experience with automatic testing equipment is yours when you call on Borg.

Save time and money when faced with design or production problems of electronic components. Call on Borg. Let us send you the name of your nearest Borg "Tech-Rep" and a copy of catalog BED-A90 today.

OTHER BORG DIVISIONS

The George W. Borg Corporation is comprised of three divisions . . . the Borg Equipment Division at Janesville, Wisconsin, the Borg Fabrics Division at Delavan, Wisconsin which manufactures the fashionable "Borgana" fabric for coats and jackets and the Borg Products Division at Delavan, Wisconsin, leading manufacturer of automotive clocks.



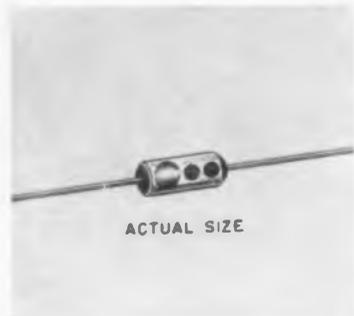
BORG EQUIPMENT DIVISION
THE GEORGE W. BORG CORPORATION
JANESVILLE, WISCONSIN

Circle 188 on Inquiry Card, page 175

Components for

HIGH FREQUENCY CHOKES

A new family of (4) ferrite bead chokes ranging from .3 to 1.3 microhenries with 30 MC ac resistance of from 25 to 100 ohms. Designed for use as filament chokes, parasitic sup-



pressors and series elements of low-pass filters for frequencies of from 5 to 200 MC. Each is color coded for easy identification; will handle 2 a. filament current with a voltage drop of less than 0.02 v. Insulated with a Fiberglass Silicone rubber covered sleeve. Performance will be unaffected by extremes of humidity and temperatures up to the ferrite Curie point of 125° C. National Co., Inc., Malden 48, Mass.

Circle 391 on Inquiry Card

PRECISION RESISTORS

New metal film resistors available can be used at full ¼ w. rating in an ambient of +150° C, or up to ½ w. at 105° C or derated to 0 at 190° C. They are designated Series 77 in the

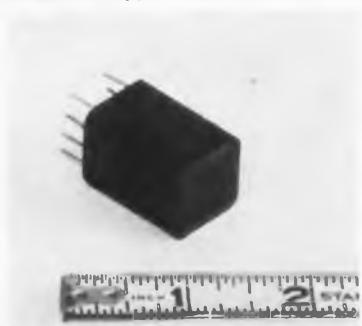


Riteohm precision resistor line. They employ no wire for the resistance element. Resistance range available is 100 ohms to 300 K ohms. Standard tolerance $\pm 1\%$, but tolerances can be supplied. Reactance is low due to the absence of wire coils. Consequently, these units can be used in high frequency and pulse circuits for which wire wound units are unsuitable. Ohmite Manufacturing Co., 3657 Howard St., Skokie, Ill.

Circle 393 on Inquiry Card

SMALL TRANSFORMERS

Miniaturized transformers for handling a wide range of audio and carrier frequencies, and designed especially for mounting on printed wiring boards are being produced. Core structures of these are nickel-iron laminations for the audio frequency units, and ferrite for the carrier frequency ranges. Windings are of polyurethane-insulated copper wire separated by



Mylar. Cases are injection-molded phenolic in 2 sizes, 1 1/16 x 3/4 x 3/4 in., and 1 1/16 x 15/16 x 1 1/8 in. Telecommunication Div., Stromberg-Carlson, Rochester 3, N. Y.

Circle 392 on Inquiry Card

GLASS CAPACITORS

Two new subminiature fixed glass capacitors, called WL capacitors, were designed to be used on printed circuit boards and applications requiring high quality components. High temperature soldered leads allow the capacitors to be connected directly to the circuit board; no clamping is required. Both measure less than 0.1 in. thick. WL-4, the smallest



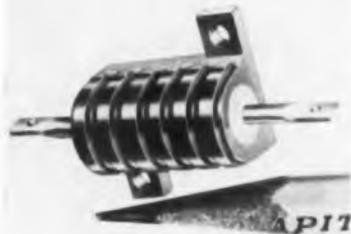
may be obtained in capacitances up to 1000 μf at 300 v. rating. The WL-5 is larger and made in capacitances up to 2200 μf at this rating. Corning Glass Works, Corning, N. Y.

Circle 394 on Inquiry Card

the Industry

MINIATURE RESISTOR

The sub-miniature 10 w. power-house resistor provides precision resistance, high power capacity and good heat dissipation. Resistor is available in tolerances of $\pm 0.05\%$ to



$\pm 3\%$ with a range from 0.05 ohms to 30,000 ohms, depending on tolerance specified. When panel mounted on aluminum, the RH-10 will dissipate 10 w., derating to 0 at 275°C. Conservative wattage rating in free air is 6 w. The entire resistor element is ruggedly constructed with welded termination throughout. Element is suspended in a special shock absorbing compound. Dale Products, Inc., Columbus, Neb.

Circle 395 on Inquiry Card

PRECISION RESISTOR

Designed to meet the requirements of Sub-miniaturization in the Electronic Industry, the NS6AZ is the smallest precision wire wound resistor in a full line of axial precision wire wound resistors. The NS6AZ (.125 x .250) is one in a line of over 15 sizes encapsulated to meet MIL R93A characteristic "A" and MIL R9444. Available with resistance



values up to 125K with tolerance to 0.1%. This resistor will dissipate 0.1 watts at 125° C with no derating. Eastern Precision Resistor Corp., 675 Barbey St., Brooklyn 7, N. Y.

Circle 396 on Inquiry Card

Eliminate Costly Reading Errors!



with BORG DIRECT-READING MICRODIALS...

Large, clear numbers are easily and accurately viewed through the curved, one-piece window of Borg Direct-Reading Microdials. The in-line digital presentation practically eliminates reading and setting errors . . . especially under the difficult conditions of forced fast reading and setting. Human engineering studies have determined that the greatest accuracy of perception of precise numerical values is provided by an in-line digital presentation. Borg Microdials are designed to take maximum advantage of this fact. Available in 3, 4 and 5 digit models.

CONCENTRIC SCALE MICRODIALS



Borg Concentric Scale MICRODIALS indicate the position of any multi-turn device of 10 turns or less.

Borg Concentric Scale MICRODIALS are precision dials with an indexed accuracy of one part in 1,000. They indicate the position of any multi-turn device of 10 turns or less. Concentric scales indicate full turns and increments. Fingertip brake retains any setting. Knob fastens directly to shaft . . . no backlash. Accurate . . . easy to install.

Write For Complete Data On All Borg Microdials
Ask For Catalog BED-A90

BORG EQUIPMENT DIVISION
THE GEORGE W. BORG CORPORATION

JANESVILLE, WISCONSIN



Build by Borg
**MOTORS
MICROPOTS
MICRODIALS**

Engineering Test Equipment

SQUARE WAVE GENERATOR

The model 72 square wave generator producing square waves with a rise time of 20 millimicrosec. with step selection of 18 frequencies over the range of 5 cycles to 5 mc. It is



a convenient source of ideal square waves for checking the performance of audio and video and components, as well as cathode-ray oscilloscopes. Some of the features are: fast rise time, wide frequency range, control of square wave symmetry, two output impedances and accommodates synchronizing signals (step selection of 18 frequencies is provided). Measurements Corp., Boonton, N. J.

Circle 373 on Inquiry Card

CIRCUIT SIMULATOR

A new instrument that eliminates breadboard layout by simulating complete transistorized amplifier stages has been introduced. Any ac or direct-coupled amplifier stage short of



high power audio output can be simulated with the LF-1. Common or grounded emitter, base, or collector circuits may be simulated using pnp, npn, or surface barrier transistors. Built-in battery voltage supply for separate bias and load. Switch reverses polarity. Almost any external connection can be made at the 5-way binding posts provided. Sprague Products Co., North Adams, Mass.

Circle 375 on Inquiry Card

MULTIMETER

A new model of the 260 volt-ohm-millimeter is available. Among its new features are a polarity reversing switch that eliminates lead reversal; spread-out scales for faster reading;



and a rugged printed circuit. DBM ranges run from -20 to +50 dbm, one millivolt in 600 ohms. The AC sensitivity has been increased to 5000 ohms/volt, and the frequency response now covers 5 to 500,000 cps. It also has a full-wave bridge rectifier system, and a rearranged interior for easier access to components. Simpson Electric Co., 5200 W. Kinzie St., Chicago 44, Ill.

Circle 377 on Inquiry Card

SWEEPING OSCILLATOR

Twenty cycles to 20 kc range in a single dial sweep is a unique feature of the new Model 207A Audio Sweep Oscillator. It employs a new variation of the time tested r-c oscillator circuit and achieves its extreme frequency range without bandswitching and with good stability. The accuracy is $\pm 4\%$ including warmup drift and aging of tubes and components.



The oscillator has been designed for motor drive to speed the testing of audio circuits and devices of many kinds. Hewlett-Packard Co., 275 Page Mill Rd., Palo Alto, Calif.

Circle 374 on Inquiry Card

AC MILLIVOLTMETER

AC measurements to 50 microvolts are accurately made with this completely portable, battery operated, transistorized millivoltmeter. Twelve full scale ranges between 0.001 and 300 vac. are provided as well as db, coverage between 80 and 52 dbm. Useable frequency coverage is provided between 1 cycle and 5 mc. Accuracy is 3% between 5 cycles and 1 mc. Input



impedance is 22 megohms. Battery power provided 400 hours of continuous operation. Fisher Research Laboratory, Inc., 1961 University Ave., Palo Alto, Calif.

Circle 376 on Inquiry Card

AC MILLIVOLTMETER

The Model 300 AC Millivoltmeter has the following features: completely transistorized circuitry; 2 megohms input impedance without use of vacuum tubes; battery life of 4,500 hours; twelve ranges covering 0.001 to 300 v. full scale; frequency response from 8 cps to 800 kcps; regulated power supply systems; small physical size of 5x7x5 in. with large 4 in.



meter, weight of 4 pounds. The meter can be powered with either ordinary flashlight cells or with mercury cells. Burr-Brown Research Corp., Box 6444, Tucson, Ariz.

Circle 378 on Inquiry Card

Why Gamble?



**THERE'S A
BORG MICROPOT[®]
TO MEET YOUR EXACT
SPECIFICATIONS!**

**BORG MICROPOTS...
the Ultimate in Multi-Turn Precision Potentiometers**



**1100 Series
MICROPOTS**

A precision MICROPOT that offers your products a price advantage in today's competitive markets. Lug or lead type terminals. Accurate . . . dependable . . . long lived.



**990 Series
Trimming
MICROPOTS**

Small in size, lightweight, rugged and dependable. Three types of terminals . . . printed circuit, solder lugs or insulated wire leads.



**900 Series
MICROPOTS**

Standard ten-turn and three-turn models to fit most special design needs. Extremely accurate and dependable under adverse environmental conditions including severe vibration and shock.



**205 Series
MICROPOTS**

A quality MICROPOT. Designed for both military and commercial applications. Proven in many different mobile and stationary types of electronic circuitry.

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BORG EQUIPMENT DIVISION
THE GEORGE W. BORG CORPORATION
JANESVILLE, WISCONSIN



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In the college classroom, or "on the job" in industry, the Heathkit Analog Computer solves physical or mechanical problems by electronic simulation of conditions. Full kit **\$945⁰⁰**



This advanced "slide-rule" is a highly accurate device that permits engineering or research personnel to simulate equations or physical problems electronically, and save many hours of involved calculation.

Ideal for industry, research, or instructional demonstrations. Incorporates such features as:

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Now for the first time, the cost of this highly accurate, time and work-saving computer need not rule out its use—You assemble it yourself and save hundreds of dollars.

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HEATH COMPANY
A Subsidiary of **DuPont** Inc.
BENTON HARBOR 37, MICH.

name _____
address _____
city & zone _____
state _____

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Get the complete computer story from this four-page folder, available free!

PRODUCT HIGHLIGHTS

POWER SUPPLY

The model 7P13 is a 300 v. 150 ma. voltage regulated laboratory-type power supply. Input voltage is 105-125 v. at 50 to 60 cycles. Three output voltages are available (1) con-



tinuously variable 0 to 300 vdc. at 150 ma. (2) continuously variable 0 to -150 vdc. at 5 ma. (3) 6.3 vac. at 8 amps. High voltage regulation $\pm 0.5\%$ from 20 to 300 v. at 0 to 150 ma. and line variations from 105 to 125 vac. Metering is accomplished with separate voltmeter and millimeter. All adjustments and controls on front panel. Western Gear Corp., P. O. Box 182, Lynwood, Calif.

Circle 319 on Inquiry Card

POWER SUPPLY

A new transistorized power supply has been developed for use with two-way radio systems. It is designed to provide greater reliability in mobile radio equipment and to effect savings in component replacement. The power supply will accomplish cost reductions in maintenance for both small and large fleet users be-



cause it replaces the receiver portion of the power supply. New unit reduces the need for frequent replacement of vibrators. General Electric, Electronics Park, Syracuse, N. Y.

Circle 320 on Inquiry Card



A
F
V
H
F

**EIMAC
FIRST**

Covering the Spectrum

with Reliable Ceramic Tubes

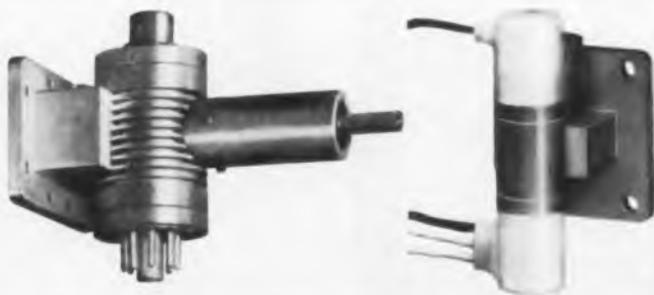
U
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F



From audio into super high frequencies, Eimac covers the RF spectrum with modern ceramic tubes. This incomparable ceramic electron tube family — more than one-third of the Eimac line — includes reflex and amplifier klystrons, negative grid tubes, rectifiers, pulse modulators, and receiving tubes. The tubes illustrated are typical of more than 40 Eimac ceramic tube types that are being selected by leading equipment manufacturers for use in all types of applications — from tropo-scatter to industrial heating, from single sideband to pulse.

The advantages of reliable Eimac ceramic tubes include: resistance to damage by impact, vibration, and heat; smaller size; and better processing techniques.

S
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Eimac[®]

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SAN BRUNO - CALIFORNIA
Eimac First with ceramic tubes that can take it

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Negative Grid Tubes
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Ceramic Receiving Tubes

Vacuum Tube Accessories
Vacuum Switches
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Includes the most extensive line of ceramic electron tubes

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Only precision
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highest quality...

Lower cost—closer tolerances through Anton's unique facilities in manufacturing of metal parts for transmitting radar and geiger counter tubes.

All magnetron anode cavities are hobbled (not machined) resulting in perfect uniformity.

Send drawings of your designs for quotation and take advantage of our production experience in this field.

Anton Machine Works

1226 Flushing Avenue, Brooklyn 37, New York

Standard & Magnetic Parallels • Standard & Adjustable V-Blocks • Diamond Holders • Milled Blanks

Circle 195 on Inquiry Card, page 175



PRODUCT HIGHLIGHTS

POWER UNIT

A completely transistorized unit with no moving parts and weighing 1.6 lbs. is available. Known as the DVIOA Dynaverter, it will replace dynamotors in nearly all ARC air-



craft radio and navigation receivers. Variations of the DVIOA, with special mountings, have been and will continue to be designed for users who wish to replace the rotating (dynamotor) equipment. It is designed for input of 24 to 28 vdc. with a nominal of 27 v. Input current is 2.3 a. Output voltage is 270 vdc. at 150 ma. AC ripple component is .03%. Aircraft Radio Corp. of Boonton, N. J.

Circle 321 on Inquiry Card

NEW SYNCHRONOUS TIMERS by Cutler-Hammer

- 1-minute timer adjustable in 1 second intervals—0 to 60 seconds.
- 3-minute timer adjustable in 3 second intervals—0 to 180 seconds.
- 5-minute timer adjustable in 5 second intervals—0 to 300 seconds
- No guesswork... exact time interval set by positioning bronze pointer
- Sweep-second pointer provides visual count-down during timing operation
- Automatic reset returns pointer to start position after each cycle
- Models interchangeable without disturbing mounting base or wiring
- Rugged timing mechanism guarantees accurate, trouble-free performance

For complete information, write today for descriptive bulletin 10336.



CUTLER-HAMMER Inc.
1229 St. Paul Ave.
Milwaukee 1, Wis.



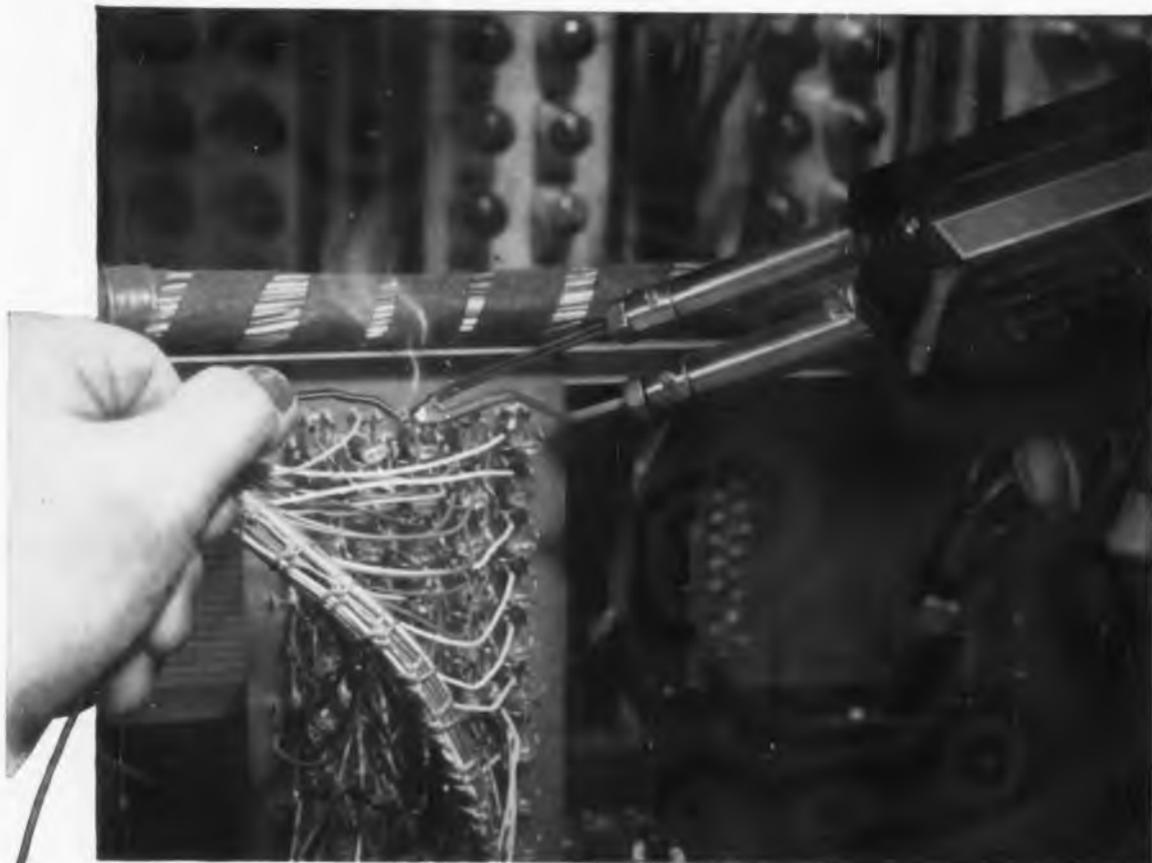
POWER SUPPLY

A transistor power supply designed for use on vehicles subject to high shock and vibration environments has been developed. Designated TPS-5, the transistor operates in ambient temperatures from -40°F. to $+70^{\circ}\text{C.}$, and converts 28 vdc. at 3 amps to 225 vdc. at 300 ma. for operating mobile electronic systems or devices.



Package dimensions are $2\frac{1}{2} \times 3\frac{1}{2} \times 4\frac{1}{2}$ in. including mounting flanges. The unit weighs 1.5 lbs. Aerophysics Development Corp., P. O. Box 689, Santa Barbara, Calif.

Circle 322 on Inquiry Card



"Dutch Boy" Solder specialists help keep electronic brains sane

*...develop solder-flux
combinations that
give practically
perfect performance*

Who wants a psychopathic computer?

Not the electronic-brain makers... or their customers. That's why they demand... and get... practically never-miss reliability in soldering the thousands of joints and connections in even a small computer. A single open could put the circuitry out of commission.

"Dutch Boy" Solder specialists have done much to improve reliability of metal joining... helping to improve soldering methods, advising on (and sometimes devising) new equipment, and, most of all, developing improved solders and fluxes.

As new electronic devices are developed, as new service requirements unfold, National Lead solder specialists meet the challenge — a new test to insure flux continuity and integrity in cored solders... new formulations for ultra-cold service... fluxes that are truly non-conductive and non-corrosive — these are a few of the things National Lead people have done to solve customers' solder problems... produce solders worthy of the "Dutch Boy" name.

Maybe your "Dutch Boy" Solder specialist can help *you* improve your production soldering. It's easy to find out. Just write National Lead Company, 111 Broadway, New York 6, N. Y. Offices in Principal Cities.

Dutch Boy[®] Solders and Fluxes



 <p>Tape Loop Buffer Devices</p>	 <p>All Transistorized Digital Magnetic Tape Handlers</p>
 <p>Perforated Tape Readers</p>	<p><i>for data processing components and systems</i></p> <p>SPECIFY POTTER</p> <p>Potter instruments and systems are unexcelled in reliability, accuracy and flexibility. The equipment shown is typical of other available high-precision instruments for use as individual components or in integrated systems to meet specific requirements.</p> <p>"Quick Look" Recorders Transistorized Record Playback Amplifiers Transistorized Frequency Time Counters Random Access Memory Systems Other Peripheral Equipment for Data Processing Systems</p>
 <p>Small Very High Speed 20-40 Column Printers</p>	
 <p>High Speed Magnitypers</p>	
 <p>Printer Input Equipment</p>	
 <p>Single and Dual Gap Magnetic Heads</p>	

Write for literature describing these and other Potter special application products. For detailed technical specifications on any of the Potter Products listed above, call or write your Potter Representative or the factory.

Potter POTTER INSTRUMENT COMPANY, INC.
Sunnyside Boulevard, Plainview, New York
Overbrook 1-3200

PRODUCT HIGHLIGHTS

DC POWER SUPPLIES

A 900 v. regulated dc. transformer has been added to a wide selection of transistorized, dc power supplies. Designed for use in extreme environmental conditions, the unit is potted



in epoxy resin and sealed. Operates over ambient temperature range of -55 to 71°C . Unaffected by extremes of shock and vibration. Package operates on 24 to 32 vdc. input and delivers 900 vdc. at 30 μa within 3%. Output ripple is regulated within 3 v. peak to peak. The entire unit is integrated in a 2 x 2 3/4 in. package. The Ramo-Wooldridge Corp., P. O. Box 8405, Denver 10, Colo.

Circle 323 on Inquiry Card

POWER SUPPLIES

Portable power series offers a general purpose instrument for laboratory, field or industrial use combining features of ruggedness, compactness and portability. Special features are: continuously variable output; high voltage vernier adjustment; regulated output; rated for full load over entire voltage range and easy to read. 2 1/2



in. meters. Input is 105-125 vac; dc output is Model PR-100 for 120-300v 0-100 Ma., Model PR-200 for 120-300v 0-200 Ma. Nutron Mfg. Co., Inc., 67 Monroe Ave., Staten Island 1, N. Y.

Circle 324 on Inquiry Card

Color Coding

Loudspeaker Voice Coils

Green—finish.
Black—start.

Loudspeaker Field Coils

Black and Red—start.
Yellow and Red—finish.
Slate and Red—tap (if any).

Power Transformers

1. Primary Leads	Black
If tapped:	
Common	Black
Tap	Black and Yellow Striped
Finish	Black and Red Striped
2. High-Voltage Plate Winding	Red
Center-Tap	Red and Yellow Striped
3. Rectifier Filament Winding	Yellow
Center-Tap	Yellow and Blue Striped
4. Filament Winding No. 1	Green
Center-Tap	Green and Yellow Striped
5. Filament Winding No. 2	Brown
Center-Tap	Brown and Yellow Striped
6. Filament Winding No. 3	Slate
Center-Tap	Slate and Yellow Striped

EFCON ...

measure of performance in miniature capacitors

There can be only one rule — one measure of EFCON capacitor performance — CLOSE TOLERANCE PERFORMANCE. Consider EFCON's proven advantages:

- low dielectric absorption
- negative temperature coefficient in the order of 100 PPM/C
- the lowest dissipation factor of any film capacitors
- tested DC voltage of at least 200% of rated voltage at 25°C.

Efcon Polystyrene, Mylar and Teflon capacitors are available in tubes from .001 to 2 mfd. Hermetically sealed rectangular containers are available up to 10 mfd. in tolerances of closer than $\pm 1\%$.

Specify EFCON for precision applications, and you specify the standard for the electronics industry. Send for applications bulletin. DEPT. 1-2

ELECTRONIC FABRICATORS, INC.
682 BROADWAY, NEW YORK 12, N. Y.
TELEPHONE: Spring 7-4900

Circle 193 on Inquiry Card, page 175



STYLE A



STYLE B



STYLE C



STYLE D



STYLE V



STYLE W



STYLE Y



STYLE Z

PANEL SPACE LIMITED? SPECIFY

DIALCO 2-Terminal

Sub-Miniature Pilot Lights

COMPACT
RUGGED

OMNIDIRECTIONAL
PLASTIC DOMES

COMPLETELY
INSULATED

Also available with "Taper Tab" quick-connect terminals

BACK of panel insertion

or FRONT of panel insertion

△ Dimming and
◁ Non-dimming types

1-Terminal Pilot Lights

for use on grounded circuits. Available with binding screw or soldering terminal.

DIALCO's expanded line of sub-miniature lights conform to all applicable Mil Specs. Use T-1 $\frac{1}{4}$ midget incandescent lamps—1.3 to 29 V. Spring mounted *Lens-with-Message* is readily positioned after installation... Mount from back of panel in 15/32" clearance hole; or from front of panel in 17/32" hole... 7 lens colors... Shown approx. actual size (top to bottom): No. 134-3830-375-6... No. 101-3830-951... No. 101-5030-951... No. 109-3830-111... No. 111-3830-111... No. 107-1930-951.

Complete details in Brochures L-156 A and L-157.

SAMPLES ON REQUEST—AT ONCE—NO CHARGE



Foremost Manufacturer of Pilot Lights

DIALIGHT CORPORATION

50 STEWART AVE., BROOKLYN 37, N. Y. • HYacinth 7-7600

DIALIGHT CORP., 50 Stewart Ave., Brooklyn 37, N. Y.

Send brochures on Sub-Miniatures Selection Brochure Pilot Light Catalogues

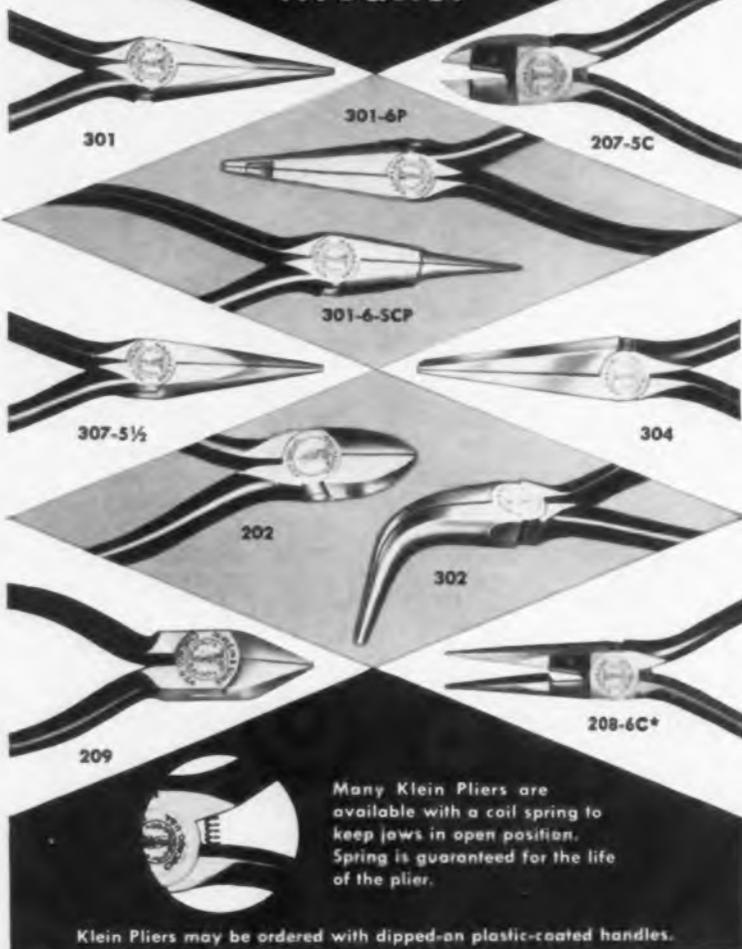
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Company

Address

KLEIN PLIERS

make wiring faster
...easier



Many Klein Pliers are available with a coil spring to keep jaws in open position. Spring is guaranteed for the life of the plier.

Klein Pliers may be ordered with dipped-on plastic-coated handles.

¹Pat. applied for

There's a lot to like in Klein Pliers. There is a size and style for every job, even the toughest wiring assembly. All are made of finest alloy

steel, individually tempered and tested. They are backed by the Klein name, serving industry for more than 100 years.



Yours for the asking—
free copy of the new
Klein Pocket Tool Guide.

ASK YOUR SUPPLIER

Foreign Distributor: International Standard Electric Corp., New York

Mathias **KLEIN** & Sons
Established 1857 Chicago, Ill., U.S.A.
7200 McCORMICK ROAD • CHICAGO 45 ILLINOIS



PRODUCT HIGHLIGHTS

RADAR TEST SET

New radar test set provides all the instrumentation necessary for complete X Band and C Band checkout of radar and other transmitters in the field, or on the production line. Unit



covers frequencies from 5200 to 5900 MC for C Band and 8500 to 10,000 MC for X Band. It contains a spectrum analyzer, power monitor, direct reading frequency meter and signal generator. The r-f section is constructed with umbilical cabling allowing for 8 in. clearance from main cabinet for maintenance or inspection. Kearfott Co., Inc., 253 N. Vinedo, Pasadena 8, Calif.

Circle 367 on Inquiry Card

ALPHA TESTER

The model AT10A transistor alpha-beta tester is a direct reading instrument which automatically indicates the ac values of the alpha and beta parameters for all types of transistors. The instrument provides readings of these parameters as a function of emitter and collector bias and in addition tests for alpha and beta cut off and values of alpha-beta at



high audio frequencies. It is designed for both production testing and laboratory measurement. Electronic Research Associates, Inc., 67 East Centre St., Nutley 10, N. J.

Circle 368 on Inquiry Card

PRODUCT HIGHLIGHTS

TRANSISTOR ANALYZER

Model TA-10 Unijunction Transistor and Diode Checker traces, on an oscilloscope, the negative resistance or emitter characteristic curves of the G. E. type ZJ14 unijunction tran-



sistor (double based diode type). Interbase and emitter voltages are metered and adjustable at front panel. Checking of all type diodes is readily performed by scope display of forward and reverse current characteristic curves. Go, no-go type quality control and production procedures are easily set up. A transistor circuit power source is provided. Polyphase Instrument Co., Bridgeport, Pa.

Circle 369 on Inquiry Card

NULL INDICATOR

A new electronic null indicator, Model 457, is for use as a dc voltage null detector in bridges. The unit uses a chopper-stabilized amplifier and features high input resistance, extreme sensitivity, balanced input, and practically zero drift. Specifications are: input resistance, 2 megohms; maximum gain, 20 $\mu\text{v}/\text{in.}$; noise, less than 1 $\mu\text{v.}$; drift, less than



1 $\mu\text{v.}$; input, 3 terminal balanced; 60 cps attenuation, 400; linear time constant, 40 msec; overload, withstands 300 v. indefinitely. The Millitest Co., 88 Madison Ave., Hempstead, N. Y.

Circle 370 on Inquiry Card



DIFFICULT MOLDINGS from TEFLON, KEL-F

United States Gasket specializes in difficult moldings involving precision tolerances, intricate shapes, delicate wall sections, inserts, molding around metallic structures, inside and outside threaded parts, etc.

They are equipped with unusual "know-how" gained as pioneers and leaders in fluorocarbon plastics fabrication, and the most modern specialized facilities and techniques for cold molding and sintering of TEFLON® T.F.E., as well as the injection molding of KEL-F[®] and the new thermoplastic TEFLON F.E.P.

Send us your difficult fluorocarbon molding problems for quotations. And call upon us, too, for your requirements of fluorocarbon and nylon sheets, discs, tape, rods, tubing, bars, cylinders, etc., from the world's largest and most complete stocks.

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For prompt service, contact one of The Garlock Packing Company's 30 sales offices and warehouses throughout the U.S. and Canada, or write

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United States Gasket Company
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Plastics Division of
GARLOCK



JERROLD

PRECISION EQUIPMENT

SWEEP GENERATORS



Model 100



Model 120



Model 200



Model 300



Model 400

ACCESSORIES



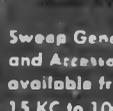
Model 500



Model 600



Model 700



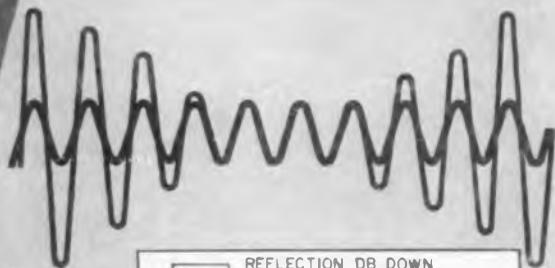
Model 800

Sweep Generators
and Accessories
available from
15 KC to 1000 MC

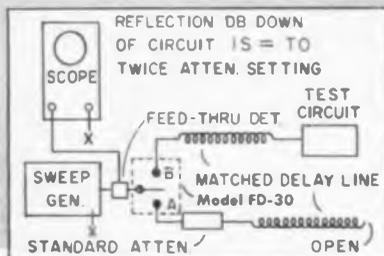
PERMITS ACCURATE R.F. Measurements By Comparison

Gain - VSWR - Loss

From 200 KC to 1000 MC



Measurement
Of Voltage
Standing
Wave Ratio



Measurements Unaffected By:

- Oscilloscope Gain or Linearity Changes
- Sweep Generator Power Output Changes
- Square Law Characteristics of Detector
- Delay Line Losses

Comparison Measurement Techniques can achieve accuracies in the order of ± 0.2 —Without Refinement Efforts.

SEND FOR TECHNICAL NEWSLETTER

Informative, fully illustrated technical newsletter describes RF Measurements of Gain, Loss, or VSWR by the Comparison Technique.

JERROLD ELECTRONICS CORP.

15th & Lehigh • Philadelphia 32, Pa.
Export—Rocke International, N.Y., N.Y.

Dept. 18

PRODUCT HIGHLIGHTS

FREQUENCY METER

A transistorized frequency meter has been added to the line of modular instruments manufactured. It is designed to measure frequency in the range from 10 cps to 100 kc with an



accuracy of 2 per cent regardless of wave shape down to 1 per cent duty cycle. To insure accurate, easy readability, seven full volt ranges of 100, 300, 1 kc, 3 kc, 10 kc, 30 kc and 100 kc are provided. Minimum input voltage is 0.1 v. rms and maximum 120 v. The instrument measures 8 $\frac{3}{4}$ x 5 $\frac{3}{4}$ x 4 in. Teletronics Laboratory, Inc., 54 Kinkel Street, Westbury, L. I., N. Y.

Circle 371 on Inquiry Card

UHF MILLIVOLTMETER

The accurate UHF millivoltmeter is good for calibrating signal generators, determining exact signal levels, and measuring minute voltage levels. Designated as Type FT-URV, it has a sensitivity of 3 mv. and is usable from 1 kc to 2000 mc. It has a range of 3 mv to 10 v. and 9 v. to 500 v. (with dividers). Insertion unit has a 50 Ω characteristic impedance and the



VSWR is less than 1.2:1. Probe has input resistance between 100 k Ω at 100 kc and 3 k Ω at 300 mc. Federal Instruments Div., IT & T, Kingsland Rd., Clifton, N. J.

Circle 372 on Inquiry Card

PRODUCT HIGHLIGHTS

PRODUCTION PLIERS

A long nose plier designed specifically to speed up wiring where the cut, hook and crimp method is employed is available. Acting on a shear principle, this plier cuts hard or

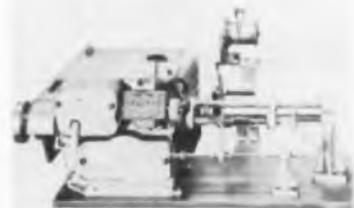


"dead" soft wire cleanly. The shear blade is removable and may be easily replaced if it becomes worn. The reverse side has a milled section behind the knife so designed that when the wire is cut, it is held in position and a turn of the hand forms a hook in one operation. Furnished standard with self-opening coil spring. Mathias Klein & Sons, 7200 McCormick Rd., Chicago 45, Ill.

Circle 307 on Inquiry Card

COIL WINDER

A newly designed versatile coil winding machine for laboratory and production runs winds variable pitch progressive universal coils, variable pitch solenoids, progressive universal coils, automatic pi-wound coils, close and space wound single layer solenoids and random wound bobbin coils is now available. Outstanding feature is that cam and gears are instantly available for fast, simple



changing. Model 600-AM also has continuous automatic lubrication of cam, yoke and all high speed gears. Geo. Stevens Mfg. Co., Inc., Pulaski Rd. at Peterson, Chicago 30.

Circle 308 on Inquiry Card



NEW 1E1 BANDPASS FILTER



The new Bulova 1E1 Bandpass Filters give today's radar microscopic eyes. Shaving the broad frequency range of returning signals into tiny segments, they help reconstruct signals faithfully for maximum information, for accurate measurement of Doppler effect... all at greatly reduced noise levels.

With characteristic Bulova precision, bandwidths and insertion losses are closely controlled, so that many filters may be paralleled to cover an almost unlimited frequency spectrum.

Now in production for virtually all leading manufacturers in the radar field are filter packages of 200 cps bandwidth with cross-overs at the 1/2 db. point, and with insertion losses equal to within 0.3 db. from filter to filter.

Typical specification of a single filter in 10 K.C. spectrum:

Center frequency: 144.400 KC
 Lower 1/2 db. point: 144.330 KC
 Upper 1/2 db. point: 144.470 KC
 Lower 3 db. point: 144.300 KC
 Upper 3 db. point: 144.500 KC
 10 db. bandwidth: less than 2 KC
 Insertion loss: less than 1 db.
 Ripple in pass band: less than 1/2 db.
 Frequency variation of pass band: less than 10 cps over temperature range of 0°C. to +70°C.
 Size: 2-9/32"W x 2"D = 1-3/8"H
 Weight: less than 7 oz.

Write today for full information on Bulova's standard and custom design filters.

WATCH COMPANY
BULOVA
 FAMED FOR PRECISION SINCE 1875
 ELECTRONICS DIVISION • WOODSIDE 77 • NEW YORK

CHICAGO

TRANSFORMERS

Designed and Built
in accordance with MIL-T-27A
DELIVERED FROM STOCK!



Your local electronic parts distributor can give you fast delivery on hundreds of types of transformers designed and built in accordance with MIL-T-27A specifications. They are in stock, backed up by the largest factory inventory of military transformers in the industry.

Ask your distributor for CHICAGO catalog CT3-57, listing detailed electrical and physical specifications on these units, or write to Chicago Standard Transformer Corporation.



TYPE	RANGE OF RATINGS
400 CYCLE	
Power	40 to 300 DCMA, 510 V. CT to 1100 V. CT
Filter Reactors	40 to 300 DCMA, 2.0 henries
Filament	6.3 V. CT, 3 to 20 Amp.
Step-Down	140 Va, 28.5 V., 3 phase
MILITARY STANDARD	
Power	70 to 250 DCMA, 400 V. CT to 1600 V. CT
Filament	2.5 to 6.3 V., 2 to 20 Amp.
Audio	50 to 15,000 Ω pri., 4.0 to 135,000 Ω sec., .03 to 2.0 W
TRANSISTOR AUDIO	
Input	60 Ω pri., 10 Ω sec., .05 W.
Interstage	100 to 500 Ω pri., 200 to 5000 Ω sec., .03 to .25 W.
Driver	100 to 2000 Ω pri., 100 to 200 Ω sec., .05 to .5 W.
Output	20 to 9800 Ω pri., 4 to 15 Ω sec., .05 to 10.0 W.
GENERAL TYPES	
Power	10 to 300 DCMA, 500 V. CT to 1100 V. CT
Filter Reactor	10 to 300 DCMA, 8 to 15 henries
Filament	5 to 10.0 V., 1.25 to 5.0 Amp.
Multiple Filament	5 to 12.6 V., 1 to 6 Amp.
Audio Input	50 to 20,000 Ω pri., 150 - 50,000 Ω sec.
Audio Output	300 to 20,000 Ω pri., 4 to 600 Ω sec.
Saturable Transformers	2.7 to 18 W. power output

Under Military Reduced Inspection Quality Assurance Plan (RIQAP)

CHICAGO STANDARD TRANSFORMER CORPORATION

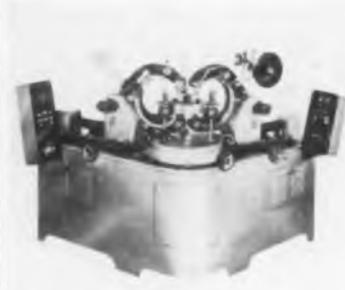
3516 Addison Street, Chicago 18, Illinois

Export Sales: Reburn Agencies, Inc. • 431 Greenwich St. • New York 13, N.Y.

PRODUCT HIGHLIGHTS

COIL WINDING MACHINES

A new series of automatic dual-purpose toroidal winding and taping machines has been introduced. These machines feature simultaneous, separate or sequential 360° continuous



winding of wire and/or tape in one operation, and can be operated by one unskilled operator. The new series consists of 2 models: UT-14, with a wire diameter range of #20-#7, and UT-20, having a range of #14-#5; both accommodating most commercial $\frac{3}{4}$ or 1 in. tapes. Machines are for faster and more economical production of toroidal coils. Universal Mfg. Co., 410 Hillside Ave., Hillside, N. J.

Circle 309 on Inquiry Card

COLLECTING DEVICE

A new wire collecting device to be attached to the Artos CS-6 automatic wire measuring, cutting, and stripping machine designated as AE-47R, the upper trough collects wire lengths up to 60 inches, then automatically empties them into the lower trough after the wire has been cut. This eliminates the need of an operator for collecting multiple stroke wire lengths. The new collecting device is



easily attached to the CS-6 machine without drilling a hole. It is recommended that a wire straightener be mounted ahead. Artos Eng. Co., 2757 S. 28th St., Milwaukee 6, Wis.

Circle 310 on Inquiry Card

RACK & PANEL PLUGS

New rack and panel units that mate without guide pins or stop-pins are available. They are designed for drawer installations or wherever connections are blind or inaccessible. The



DM6502 plugs mate with receptacles to provide self-aligning connectors that are environmentally sealed. They mate with DM9606 square flange receptacles in 7, 19, 37 and 61-pin arrangements and with DM5600 miniature hermetic receptacles in 7, 19 and 37-pin arrangements. Plugs meet applicable AN "E" requirements and the latest revision of MIL-C-5015 requirements. Deutsch Co., 700 Avalon Blvd., Los Angeles 3, Calif.

Circle 511 on Inquiry Card

MULTIMETER

The Model 110 E-I-R Meter is a battery powered meter for the measurement of voltage, current and resistance. A center zero meter provides plus and minus readings. It has 9 voltage ranges, 100 mv. to 1000 v. full scale, and 18 current ranges, 1 milli-microampere to 30 ma. full scale. Input resistance for voltage measurements is 111 megohms; an 11 megohm isolation resistor is in the pencil probe provided. The voltage drop in current measurements is 100 mv. Six



direct reading resistance scales provide center readings of 10 ohms to 100 megohms. The Belleville-Hexem Corp., 638 University Ave., Los Gatos, Calif.

Circle 512 on Inquiry Card



2400 volt overload protection for General Electric's new 50kw broadcast transmitter in service at station XEAK Tijuana, Mexico.

One Cycle CIRCUIT BREAKER

For fast, reliable overcurrent protection with JENNINGS VACUUM RELAYS

Rapid, reliable overcurrent protection was high on the list of design objectives set by General Electric engineers when they built their new BT-50-A broadcast transmitter. Jennings RH4G high voltage vacuum switches mounted as a normally open Model E relay were chosen to provide this protection because they offer:

- Positive interruption at first current zero in ac circuits, limiting arc time to less than 8 ms.
- Simple push-pull mechanical action operated by a 115 vdc solenoid modified to permit fast drop out.
- Contacts sealed in a vacuum so they require no maintenance and eliminate the danger of fire and explosion.



In addition to the normally open vacuum relays as supplied to General Electric, Jennings offers complete overload circuit breaker units composed of a high voltage instantaneous trip overcurrent relay, a normally open vacuum relay, and a control box, any of which may be purchased separately. The overcurrent relay is a highly sensitive trip mechanism with the trip solenoid insulated from ground. Wired to a normally open vacuum switch total mechanical operate times are only 6 to 12 milliseconds from the time the fault current begins to rise until the high voltage switch opens.

Jennings Overload Circuit Breakers are useful in primaries and secondaries either with Jennings High Voltage Overcurrent Relays or with any conventional low voltage overcurrent relay. They can be wired for 3 phase simultaneous operation with electrical interlocks to prevent single phasing.

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Write today for full details on Jennings line of overload circuit breakers for complete protection of delicate electronic equipment.





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Ferrites are the finest material for tuning slugs wherever a high-Q, high-permeability core is required and space is at a premium. These Ferroxcube tuning slugs have been specifically developed for the permeability tuning of inductors, filters and transformers in the 1 kc to 4 Mc frequency range. They come in a large variety of sizes and threads, and have been found particularly useful for final inductance adjustments on filters with ferrite pot cores. The screw-driver slot in the slugs runs all the way through the core for simpler coil assembly and easy adjustability at either end. All Ferroxcube threaded slugs are furnished complete with self-threading coil forms of phenolic-impregnated tubing.

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PRODUCT HIGHLIGHTS

POWER SAW

Testing under on-the-job conditions, a portable pneumatic power saw and file has been developed which quickly and easily does good key hole, deadend and scroll cutting when plas-



tic materials are involved. Tests were made on hard thermo setting and thermo plastics as well as on rigid "Vinylite," cellulose acetate, polystyrene, fiberglass reinforced plastics, and "Plexiglas." Operating speed and cutting stroke of the saw are easily adjusted. Only two moving parts means long saw life. Air-Speed Tool Co., 1502 W. Slauson Ave., Los Angeles, Calif.

Circle 311 on Inquiry Card

BULB BLOWING MACHINE

A new automatic bulb blowing machine for incandescent lamps, radio tubes, and similar products is capable of production speeds up to 2,400 units/hr. A typical model, #2070 handles sizes up to 2 1/2 in. o.d. by 5 1/2 ft. over-all length and is fully automatic except for manual loading of 4 ft. lengths of glass. Oil-immersed and enclosed to reduce maintenance, the rollers are precision tapered, hard-



ened and ground to insure accuracy. Cutting knives are motor operated. Can be equipped with automatic tubing feed. Kahle Engineering Co., 1400 7th St., N. Bergen, N. J.

Circle 312 on Inquiry Card

PRODUCT HIGHLIGHTS

AUTOMATIC OHMMETER

A new test equipment item which permits high volume testing of electrical resistance or continuity such as is required in electrical equipment production operations is available.



The automatic ohmmeter features automatic range switching, visual indication of resistance at the output terminals, simple readout, and fast response. Range switching is accomplished by a servo loop which selects the correct range to insure a meter indication at mid-scale for any resistance value. The selected multiplier is clearly indicated by a light. Kearfott Company, Inc., 1378 Main Ave., Clifton, N. J.

Circle 513 on Inquiry Card

DIODE SEALING MACHINE

A new semi-automatic glass diode sealing machine, No. 2948, that produces 700 glass diodes/hr. for semiconductor manufacturers is available. A fully automatic model can produce up to 2000 units/hr. In the semi-automatic model, the machine has 4 individual positions. The operator loads each in turn and when the fourth is loaded, the first is ready to be unloaded. After loading, all operations



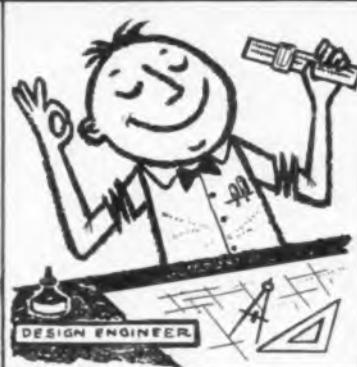
are automatic and controlled. The entire cycle takes less than 25 sec. It is designed for "Gold Bond" types. Kahle Engineering Co., 1400 7th St., N. Bergen, N. J.

Circle 514 on Inquiry Card

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Picture of an economy-minded P.A. in his moment of glory! Just placed a production order for Lamtex TUFF-TUBE and is counting the money he's saved. He used to buy NEMA grade G5 glass-melamine tubing—then he heard about TUFF-TUBE's new low price that's the talk of the industry.

Picture of a real smart designer who has just checked the specs on Lamtex TUFF-TUBE. He used to think that NEMA grade G5 glass-melamine tubing was good enough. Now he's convinced that TUFF-TUBE is more than just "good enough"—it's ideal. Below are a few reasons why.

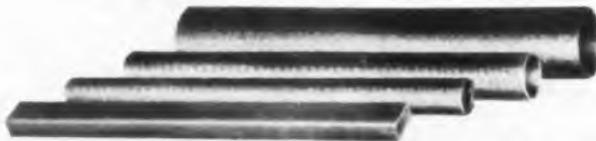
PURCHASE PRICE COMPARISON (3/16 ID x 1/32 Wall)

Glass-melamine G5 **\$87⁵⁰**
per 100 ft.

TUFF-TUBE **\$66³⁰**
per 100 ft.

SPECIFICATIONS COMPARISON

	Lamtex TUFF-TUBE	Typical Glass-Melamine
INSULATION RESISTANCE megohms	100,000	75
DIELECTRIC STRENGTH volts per mil, short time	500	225
WATER ABSORPTION % 24 hr. immersion	.20	3.9
AXIAL COMPRESSIVE STRENGTH psi	20,000	13,000



Electronic design engineers are using TUFF-TUBE for waveguides, coil forms, spacers, component jackets, antenna housings, brush holders, tuning coils, motor insulation, commutator and printed circuit forms, and many other applications that require any or all of these characteristics:

INSULATION RESISTANCE
DIELECTRIC STRENGTH
HUMIDITY-PROOF

HIGH TEMPERATURES
LIGHT WEIGHT
HIGH STRENGTH

THIN WALLS, FROM .008"
SMALL DIAMETERS, FROM .062"
DIMENSIONAL STABILITY

AVAILABLE IN ALMOST ANY CROSS-SECTION SHAPE

Write for complete info — design features, tech data, application notes.



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DIVISIONS & AFFILIATES: Glass-Solder Engineering, 300 N. Lake Ave., Pasadena 4, Calif.; Hermetic-Pacific Corp., 4232 Temple City Blvd., Rosemead, Calif.; Quality Hermetics, Ltd., 45 Hollinger Rd., Toronto 16, Ont.; Hermetic Seal Products Co. P.R., Rio Piedras, Puerto Rico.

SOLID PIN HEADERS

A new line of solid pin headers for use as electronic tube bases are capable of withstanding temperatures of 700° C. Pins of molybdenum, Monel, Kovar, copper-cored nickel can be



hermetically sealed to 95% Al₂O₃ by brazing with silver, copper or nickel gold. The new line of solid pin headers is expected to find application where high reliability, exceptional uniformity and severe environmental conditions are encountered. General Ceramics Corp., Kearsbey, N. J.

Circle 515 on Inquiry Card

Relay Definitions

(Continued from page 6)

thus lengthening it and helping to extinguish it more rapidly.

Bobbin—A bobbin is a spool upon which a coil is wound.

Break-Before-Make Contacts—Break-before-make contacts are contacts which interrupt one circuit before establishing another.

Break Contact—Same as Back Contact.

Break Delay—Sometimes used for Release Time.

Bridging—Bridging is a term used to describe a contact transfer in which the movable contact touches the normally open contact before leaving the normally closed contact during the transfer action, thus never completely opening the circuit of the movable contact.

Brush—Sometimes used for Wiper.

Chatter—Chatter is a sustained rapid opening and closing of contacts caused by variations in the coil current, mechanical vibration and shock or other causes.

Clapper Relay—Sometimes used for Armature Relay.

Close-Differential Relay—Sometimes used for Marginal Relay.

Coil—A relay coil is a magnetic or thermal winding to which energy is supplied to activate the relay.

Concentric-Wound Coils—Concentric-wound coils are coils having their windings placed radially one on top of another.

Contact Arrangement—Contact arrangement refers to the combination of the different basic contact forms to make up the entire relay switching structure. (For basic forms see Figure 1.)

Contact Bounce—Contact bounce is the uncontrolled making and breaking of

contact when relay contacts are moved to the closed position. (See Figures 2 and 3.)

Contact Follow—Contact follow is the distance two contacts travel together after just touching.

Contact Form, Basic—A basic contact form is a single-pole contact assembly. (See Figure 1.)

Contact Gap—Same as Contact Separation.

Contact-Making Meter—Sometimes used for Instrument Relay.

Contact Nomenclature—Each of the movable contacts of a relay constitutes a pole of the relay.

A combination of a stationary contact and a movable contact which are engaged when the coil is unenergized is referred to as back, break form B or normally closed contacts and is abbreviated NC. A combination of a stationary contact and a movable contact which are engaged when the coil is energized is referred to as front, make, form A or normally open contacts and abbreviated NO.

A combination of two stationary contacts and a movable contact which engages one of them when the coil is energized and engages the other when the coil is unenergized is called transfer, form C or double throw contacts and is abbreviated DT.

Contrasted with double-throw contacts, NO and NC contacts are called single-throw contacts, abbreviated ST.

A combination in which a movable contact simultaneously makes and simultaneously breaks connection between two stationary contacts is called double-break contacts and is abbreviated DB. For normally open contacts this combination may be called double make contacts.

Relay contact notations are given in the following order:

1. Poles
2. Throws
3. Normal Position
4. DB if double break or double-make contacts.

Examples: SPST NO DB designates single pole, single throw, normally open, double-break contacts.

All contacts are single break except when noted as double break (DB).

Relays having several sets of differently functioning contacts will have the contact forms listed in alphabetical order of their letter symbols as given in Figure 1.

Example: IA2B refers to SPST NO contacts and DPST NC contacts.

For a relay on which the moving contact engages more than two stationary contacts during its cycle of operation, the contact arrangement is described as MPNT, where M is the number of poles and N is the number of throws, e. g., 8P20T.

Contact Overtravel—Sometimes used for Contact Follow.

Contact Separation—Contact separation is the maximum distance between mating relay contacts when the contacts are in the open position.

Contact Spring—A contact spring is a current-carrying spring to which the contacts are fastened.

Contacts—Contacts are current-carrying parts of a relay which engage or disengage to make or break electrical circuits.

(Continued on page 552)

IERC HEAT-DISSIPATING ELECTRON TUBE SHIELDS



— AND EQUIPMENT "DOWN TIME" LOSSES
CAUSED BY HEAT, SHOCK AND VIBRATION!



Investigate the extraordinary tube saving, cost-saving potentials of IERC Heat-dissipating Tube Shields—the only complete, commercially-available line of effective heat-dissipating electron tube shields for miniature, subminiature and octal power size tubes. IERC's expanded line of heat-dissipating tube shields for the larger size power tubes offer, for the first time, a practical method to retain these tubes in severe shock and vibration environments!

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BRIDGE SUPPLY		6 Volts	2 Volts
FREQUENCY		60 CPS	Either 1 KC or 10 KC
FULL SCALE RANGES		±1%, ±5%, ±10, ±20%	±5%, ±10%, ±20%
IMPEDANCE LIMITS:			
Resistance		5 ohms to 5 megohms	5 ohms to 5 megohms
Capacitance		500 mmfd. to 500 mfd.	50 mmfd. to 10 mfd.
Inductance		15 millihy. to 10,000 hy.	100 microhy. to 100 hy.
PRICE		\$179.00	\$299.00

OTHER MODELS AVAILABLE		
MODEL	BRIDGE VOLTS	FULL SCALE RANGES
1000	2.5V-1000 CPS	±1, 5, 10%
1025	2V-1 KC, 25 KC	±5, 10, 20%
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60-L	6V-60 CPS	±1, 2, 10, 20%

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Circle 216 on Inquiry Card, page 175

7 Sound Reasons for using KULKA TERMINAL BLOCKS on your Electronic Equipment

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552

Circle 217 on Inquiry Card, page 175

(Continued from page 551)

Contactors—Sometimes used for a relay with heavy-duty contacts.

Continuity-Transfer Contacts—Same as Make-Before-Break Contacts.

Continuous Duty Relay—A continuous duty relay is a relay which may be energized with its rated coil voltage or current at rated contact load for a period of three hours or more without failure and without exceeding its specified temperature requirements.

Core—A core is the part of the magnetic circuit of a relay about which the coil is wound.

Current Rating—See Rated Coil Current and Related Contact Current.

Current Relay—A current relay is a relay which is designed to operate at a particular rated coil current rather than at a given rated coil voltage.

Cycle Timer—A cycle timer is a controlling mechanism which opens or closes contacts according to a preset cycle.

Deenergize—To deenergize a relay is to disconnect the relay coil from its power source.

Definite-Purpose Relay—A definite-purpose relay is a readily available relay which has some electrical or mechanical feature which distinguishes it from a general purpose relay. Types of definite purpose relays are interlock selector, stepping, sequence, latch-in and time-delay.

Delay Relay—A delay relay is a relay that is intentionally designed for a time delay between the energizing or deenergizing instant and the time that the relay contacts open or close.

Differential Relay—A differential relay is a relay having multiple windings which functions when the voltage, current or power difference between the windings reaches a predetermined value.

Double-Break Contacts—See Contact Nomenclature.

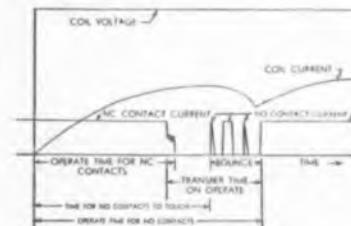


Fig. 2: Diagram of factors involved when a SPDT contact dc relay is energized.

Double-Make Contacts—See Contact Nomenclature.

Double-Throw Contacts—See Contact Nomenclature.

Double-Wound Coil—A double wound coil is a winding consisting of two parts wound on the same core.

Drop-Out Values—The drop out current, voltage or power is the maximum value for which the contacts of a previously energized relay will always assume their unenergized positions. [See Figure 4.]

Duty Cycle—The duty cycle is the rated working time of a device compared to its idle time.

(Continued on page 554)



THE WORLD'S LARGEST PRODUCERS OF MAGNETRONS AND KLYSTRONS

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Self-Contained and External Cavity

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Also Available—A line of Backward Wave Oscillators, Traveling Wave Tubes, Storage Tubes and Other Special Types.

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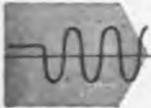


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* Class 1 = Tunable CW
2 = Fixed Frequency-Pulsed
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5 = Fixed Frequency-CW

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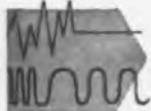
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Definitions of Relay Terms

(Continued from page 552)

Electric Reset—Electric reset is a qualifying term applied to a relay indicating that following an operation its contacts must be reset electrically to their original positions.

Electromagnetic Relay—An electromagnetic relay is a relay whose operation involves the use of a magnetic field which is produced by an electromagnet.

Electrostatic Spring Shields—Electrostatic spring shields are metallic shields between two relay springs to minimize capacitance between them.

Enclosed Relay—An enclosed relay is a relay which has both coil and contacts protected from the surrounding medium by a cover that is not airtight.

Energize—To energize a relay is to apply rated voltage to its coil.

Extension Spring—Same as Restoring Spring.

Fast-Operate Relay—A fast-operate relay is a high-speed relay specifically designed for short operate time but not short release time.

Fast-Operate, Fast-Release Relay—A fast operate fast-release relay is a high-speed relay specifically designed for both short operate time and short release time.

Fast-Operate, Slow-Release Relay—A fast-operate, slow-release relay is a relay specifically designed for short operate time and long release time.

Fast-Release Relay—A fast-release relay is a high-speed relay specifically designed for short release time but not short operate time.

Fixed Contacts—Fixed contacts are the stationary contacts of a relay which are engaged and disengaged by moving contacts to make or break circuits.

Flight Time—Sometimes used for Transfer Time.

Follow-Through Contacts—Follow-through contacts are contacts which have contact follow.

Frame—The frame of a relay is the structure on which the coil and contact assembly are mounted.

Front Contact—Sometimes used for the stationary contact of single-pole normally open contacts. (See Contact Nomenclature.)

Front Contacts—Same as Normally Open Contacts.

Gasket-Sealed Relay—A gasket-sealed relay is an airtight relay, the sealing of which involves the use of a gasket which is not bonded to the other sealing material.

General-Purpose Relay—A general-purpose relay is a readily available relay which has design, construction, operational characteristics, and ratings such that it is adaptable to a wide variety of uses.

Hand-Reset—Hand-reset is a qualifying term applied to a relay indicating that following an operation the contacts must be reset manually to their original positions.

Header—A header is the part of a hermetically sealed relay through which the electrical terminals pass.

Heater—Same as Coil for a thermal relay.

Heelpiece—A heelpiece is the part of a relay magnetic structure at the end of the coil opposite the armature. It generally supports the armature and completes the magnetic path between the coil core and the armature.

Hermetically Sealed Relay—A hermetically sealed relay is an airtight relay the sealing of which involves fusing or soldering but does not use a gasket.

High-Speed Relay—A high-speed relay is a relay specifically designed for short operate time, release time or both.

Hinge—A hinge is the joint which fastens the armature to the remainder of the relay frame or heelpiece.

Hold Values—The hold current, voltage or power is the minimum value for which the contacts of a previously energized relay will always maintain their energized positions. (See Figure 4.)

Homing—Homing is a qualifying term applied to a stepping relay indicating that the wipers, upon completion of an operational cycle, are stepped around or back to the start position.

Hum—Hum, as applied to relays, is the sound caused by mechanical vibration resulting from alternating current flowing in the coil.

Impregnated Coils—Impregnated coils are coils which have been permeated with a phenolic or similar varnish to protect the coils from mechanical vibration, handling, fungus and moisture.

(Continued on page 556)

LEAD COMPOUND SEMICONDUCTORS AND THEIR APPLICATIONS

	Bond Separation ev. (T = 300°K)	Mobility (T = 300°K)		Melting Point, °C	Application
		electrons cm ² /volt-sec	holes		
PbTe	0.3	2,800	1,100	970	Infrared Detectors
PbSe	0.26	1,700	600	1,080	
PbS	0.4	800	400	170	Thermoelectric Refrigeration and Power
Bi ₂ Te ₃	0.16	> 570	> 400	580	
ZnSb	—	—	—	563	
CdSb	0.5	—	> 400	456	
Ag ₂ (Se, S)	—	—	—	~ 840	
CuAgTe	—	—	—	~ 925	

> Minimum value

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Circle 207 on Inquiry Card, page 175

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DELAY RELAYS**
2 to 180 Seconds

Activated by a heater, they operate on A.C., D.C., or Pulsating Current.

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SPST only—normally open or closed.

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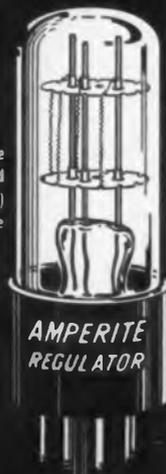
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Circle 209 on Inquiry Card, page 175



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- Single Switch Provides Sweep and Markers Simultaneously
- 30 Crystal-Controlled Markers Set to Customer Specification
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(Continued from page 554)

Inductive Winding—An inductive winding, as contrasted with a non-inductive winding, is a coil having an inductance.

Instrument Relay—An instrument relay is a relay, the operation of which depends upon principles employed in electrical measuring instruments such as the electro dynamometer, iron-vane and D'Arsonval.

Interlock Relay—An interlock relay is a relay composed of two or more coils with their armatures and associated contacts so arranged that the freedom of one armature to move or its coil to be energized is dependent upon the position of the other armature.

Intermittent-Duty Relay—An intermittent duty relay is a relay which must be de-energized at occasional or periodic intervals to avoid excessive temperature.

Latch-In Relay—A latch in relay is a relay having contacts which lock in either the energized or deenergized position until reset either manually or electrically.

Level—As applied to a stepping relay the term level is used to denote one bank or series of contacts.

Lever Contact—Sometimes used for Movable Contact.

Locking Relay—Sometimes used for Latch-In Relay.

Low-Capacitance Contacts—Low capacitance contacts are a type of contact construction providing low intercontact capacitance.

Make Contact—Same as Front Contact.

Magnetic Air Gap—A magnetic air gap is the nonmagnetic portion of a magnetic circuit.

Magnetic Freezing—Magnetic freezing is the sticking of a relay armature to the core after deenergization, due to the residual magnetism of the core.

Magnetic Switch—Sometimes used for Relay.

Make-Before-Break Contacts—Make before break contacts are double throw contacts so arranged that the moving contact establishes a new circuit before disrupting the old one. (See Figure 1D.)

Make Delay—Sometimes used for Operate Time.

Marginal Relay—A marginal relay is a relay which functions in response to predetermined changes in the value of coil current or voltage.

Mercury-Contact Relay—A mercury contact relay is a relay in which the contacting medium is mercury.

Motor-Driven Relay—A motor driven relay is a relay which is actuated by the rotation of the shaft of some type of motor, for example, a shaded pole induction disk or hysteresis motor.

Movable Contact—A movable contact is a contact which, when the relay is energized or deenergized, is mechanically displaced to engage or disengage one or more stationary contacts.

Multiple-Break Contacts—Multiple break contacts are contacts so arranged that, when they open, the circuit is interrupted in two or more places. (See Figure 1 U Z.)

(Continued on page 558)

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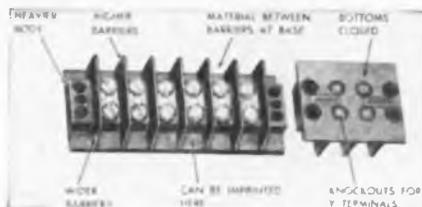
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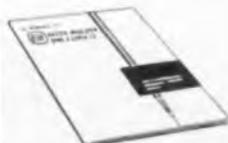


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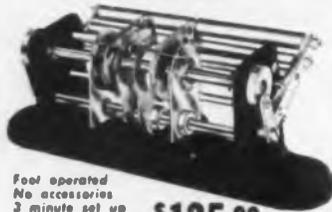
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(Continued from page 556)

Multiple Pile-Up—A multiple pile-up is an arrangement of contact springs which is composed of two or more separate pile-ups.

Multiple Stack—Same as Multiple Pile-Up.

Neutral Relay—A neutral relay, in contrast to a polarized relay, is a relay in which the movement of the armature is independent of the direction of flow of current through the relay coil.

Non-Bridging—Non-bridging is a term used to describe a contact transfer in which the movable contact leaves one contact before touching the next.

Non-Homing—Non-homing is a qualifying term applied to a stepping relay indicating that wipers, upon completion of an operational cycle, do not return to the home position, but are at rest on the last used set of contacts.

Non-Inductive Winding—A non-inductive winding is a type of winding in which the magnetic fields produced by two parts of the winding cancel each other and provide a non-inductive resistance.

Non-Magnetic Shim—A non-magnetic shim is a non-magnetic material attached to the armature or core of a relay to prevent iron-to-iron contact in an energized relay.

Non-Operate Values—The non-operate voltage current or power is the maximum value for which the contacts of a previously deenergized relay will always maintain their deenergized positions. (See Figure 4.)

Normal Position—The normal position is the usual deenergized position open or closed, of contacts due to spring tension or gravity.

Normal Sequence of Operation—The normal sequence of operation is the sequence in which all the normally closed contacts open before closure of the normally open contacts of the assembly.

Normal-Speed Relay—A normal-speed relay is a relay in the design of which no attempt has been made either to increase or decrease the operate time or the release time.

Normally Closed Contacts—Normally closed contacts are a combination of a stationary contact and a movable contact which are engaged when the coil is unenergized.

Normally Open Contacts—Normally open contacts are a combination of a stationary contact and a movable contact which are not engaged when the coil is unenergized.

Off-Limit Contacts—Off limit contacts are contacts on a stepping relay used to indicate when the wiper has reached the limiting position on its arc and must be returned to normal before the circuit can function again.

Off-Normal Contacts—Off-normal contacts are stationary contacts on a homing stepping relay used to indicate when the wiper is not in the starting position.

Operate Time—If a relay has only normally closed contacts, its operate time is the longest time interval given by definition (a) below. If a relay has normally open contacts (regardless of whether or not it has normally closed contacts) its operate time is the longest time interval given by definition (b).



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(a) Operate Time for Normally Closed Contacts—Operate time for normally closed contacts is the total elapsed time from the instant the coil is energized until the contacts have opened; i. e., the contact current is zero. [See Figure 2.]

(b) Operate Time for Normally Open Contacts—Operate time for normally open contacts is the total elapsed time from the instant the coil is energized until the contacts are closed and all contact bounce has ceased. [See Figure 2.]

Operate Values—Same as Pick Up Values.

Operating Frequency—The operating frequency is the rated a-c frequency of the supply voltage at which the relay coil is designed to operate.

Overload Relay—An overload relay is a relay which is specifically designed to operate when its coil current reaches a predetermined value above normal.

Overvoltage Relay—An overvoltage relay is a relay which is specifically designed to operate when its coil voltage reaches a predetermined value above normal.

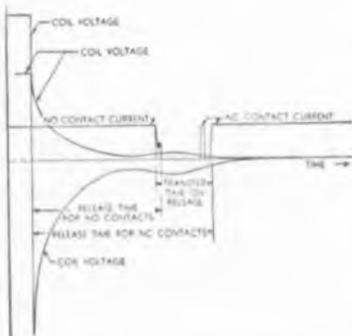


Fig. 3: Diagram of factors involved when a SPDT contact dc relay is deenergized.

Partially Enclosed Relay—A partially enclosed relay is a relay which has either contacts or coil (but not both) protected from the surrounding medium by a cover that is not airtight.

Partially Sealed Relay—A partially sealed relay is a relay which has either contacts or coil (but not both) sealed.

Pick-Up Values—The pick-up voltage current or power is the minimum value for which the contacts of a previously de-energized relay will always assume their energized position. [See Figure 4.]

Pile-Up—A pile-up is a set of contact arms, assemblies or springs placed one on top of the other with insulation between them.

Plunger Relay—A plunger relay is a relay operated by energizing an electro-magnetic coil which in turn operates a movable core or plunger by solenoid action.

Polarized Relay—A polarized relay is a relay the operation of which is dependent upon the polarity of the energizing current.

Pole—See Contact Nomenclature.

Pole Face—The pole face is the part of the magnetic structure on the end of the core nearest the armature.

(Continued on page 560)

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(Continued from page 559)

Pull-In Values—Same as Pick-Up Values.

Pull-On Values—Sometimes used for Pick-Up Values.

Ratchet Relay—A ratchet relay is a stepping relay actuated by an armature-driven ratchet.

Rated Coil Current—Rated coil current is the steady state coil current at which the relay is designed to operate.

Rated Coil Voltage—Rated coil voltage is the coil voltage at which the relay is designed to operate.

Rated Contact Current—Rated contact current is the current which the contacts are designed to carry for their rated life.

Relay—A relay is an electromechanical device which is operated by variation in the conditions of one electric circuit to effect the operation of other devices in the same or other electric circuits by either opening contacts or closing contacts or both.

Release Factor—The release factor is the ratio expressed in percent of dropout current to rated current or the analogous voltage ratio.

Release Time—If a relay has only normally open contacts, its release time is the longest time interval given by definition (a) below. If a relay has normally closed contacts (regardless of whether or not it has normally open contacts) its operate time is the longest time interval given by definition (b).

(a) **Release Time for Normally Open Contacts**—Release time for normally open contacts is the total elapsed time from the instant the coil current starts to drop from its rated value until the contacts have opened: i. e., the contact current is zero. (See Figure 3.)

(b) **Release Time for Normally Closed Contacts**—Release time for normally closed contacts is the total elapsed time from the instant the coil current starts to drop from its rated value until the contacts are closed and all contact bounce has ceased. (See Figure 3.)

Release Values—Same as Drop-Out Values.

Repeating Timer—A repeating timer is a timing device which upon completion of one operating cycle continues to repeat automatically until excitation is removed.

Residual Gap—Residual gap is the length of the magnetic air gap between the pole-face center and the nearest point on the armature when the armature is in the energized position.

Residual Pins or Screws—Residual pins or screws are non-magnetic pins or screws attached to either the armature or the core of a relay to prevent the armature from directly contacting the magnetic core.

Residual Setting—Residual setting is the value of the residual gap obtained by the use of an adjustable residual screw.

Residual Shim—Same as Non-Magnetic Shim.

Restoring Spring—A restoring spring is a spring which, when the relay is deenergized, moves the armature to and holds it in the normal position.

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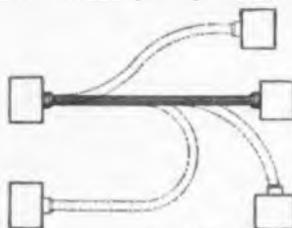
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Rotary Relay—Sometimes used for Motor-Driven Relay.

Rotary Stepping Relay—Same as Stepping Relay.

Rotary Stepping Switch—Same as Stepping Relay.

Sealed Relay—A sealed relay is a relay which has both coil and contacts enclosed in an airtight cover.

Self-Cleaning Contacts—Sometimes used for Wiping Contacts.

Selector Relay—A selector relay is a relay capable of automatically selecting one or more circuits from a number of circuits.

Sequence Control—Sequence control is the automatic control of a series of operations in a predetermined order.

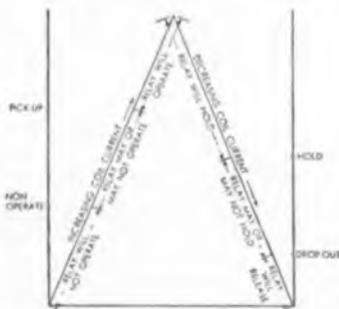


Fig. 4: Effect of changing coil current.

Sequence Relay—A sequence relay is one which controls two or more sets of contacts in a definite predetermined sequence.

Shading Coil—Sometimes used for Shading Ring.

Shading Ring—A shading ring is a shorted turn surrounding a portion of the pole of an alternating-current magnet causing a delay of the change of the magnetic flux in that part, thereby preventing contact chatter.

Slave Relay—Sometimes used for Auxiliary Relay.

Slow-Operate, Fast-Release Relay—A slow-operate fast-release relay is a relay specifically designed for long operate time and short release time.

Slow-Operate Relay—A slow-operate relay is a slow-speed relay which has been specifically designed for long operate time but not for long release time.

Slow-Operate, Slow-Release Relay—A slow-operate slow-release relay is a slow-speed relay specifically designed for both long operate time and long release time.

Slow-Release Relay—A slow-release relay is a slow-speed relay specifically designed for long release time, but not for long operate time.

Slow-Speed Relay—A slow-speed relay is a relay specifically designed for long operate time, release time or both.

Slug—In a relay a slug is a highly conductive sleeve placed over the core to aid in retarding the establishment or decay of flux within the magnetic path.

(Continued on page 562)



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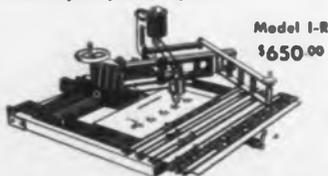
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(Continued from page 561)

Solenoid Relay—Sometimes used for a Plunger Relay.

Special-Purpose Relay—A special-purpose relay is a relay which has an application that requires special features which are not characteristic of the conventional general-purpose or definite-purpose relay.

Specified-Duty Relay—A specified duty relay is a relay which is designed to function with a specified duty cycle but which might not be suitable for other duty cycles.

Spring Buffer—A spring buffer is a bearing member made of insulating material which transmits the motion of the armature to the movable contact from one movable contact to another in the same pile-up.

Spring Pile-Up—Same as Pile Up.

Spring Stud—Same as Spring Buffer.

Stack—Same as Pile Up.

Stationary Contact—A stationary contact is a contact member which is rigidly fastened to the relay frame and which is not moved as a direct result of energizing or deenergizing the relay.

Stepping Relay—A stepping relay is a relay the contacts of which are stepped to successive positions as the coil is energized in pulses. Some stepping relays may be stepped in either direction. (The Stepping Relay is also called a Rotary Stepping Switch or a Rotary Stepping Relay.)

Telephone-Type Relay—Sometimes used for an armature relay with an end-mounted coil and spring pile-up contacts mounted parallel to the long axis of the relay coil.

Tension Spring—Sometimes used for Restoring Spring.

Thermal Relay—A thermal relay is a relay which is operated by the heating effect caused by electric current flow.

Throw—See Contact Nomenclature.

Time-Delay Relay—A time delay relay is a relay in which a delayed action is purposely introduced.

Timing Relay—A timing relay is a motor-driven time-delay relay.

Transfer Time—Transfer time is the total elapsed time between the breaking of one set of contacts and the making of another set of contacts.

(a) **Transfer Time on Operate**—The transfer time on operate is the total elapsed time from the instant the normally closed contacts start to open until the normally open contacts are closed and all contact bounce has ceased. (See Figure 2.)

(b) **Transfer Time on Release**—The transfer time on release is the total elapsed time from the instant the normally open contacts start to open until the normally closed contacts are closed and all contact bounce has ceased. (See Figure 3.)

Transit Time—Same as Transfer Time.

Trip Values—The trip voltage, current or power is the rated value at which a bistable polarized relay will transfer from one contact to another.

Undercurrent Relay—An undercurrent relay is a relay specifically designed to function when its coil current falls below a predetermined value.

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Undervoltage Relay—An undervoltage relay is a relay specifically designed to function when its coil voltage falls below a predetermined value.

Unenclosed Relay—An unenclosed relay is a relay which does not have its contacts or coil protected from the surrounding medium by a cover.

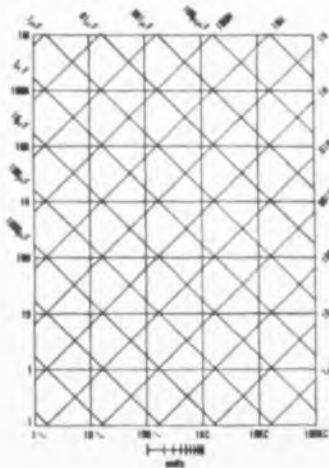
Winding—Same as a Coil.

Wiper—A wiper is a moving contact on a stepping relay.

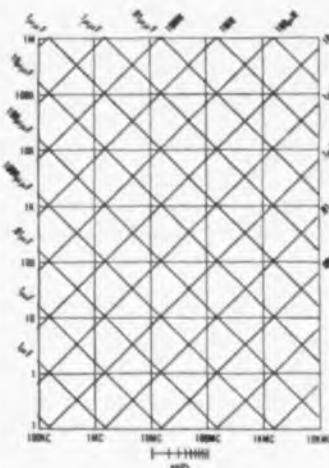
Wiping Contacts—Wiping contacts are contacts designed to have same relative motion during the interval from the instant of touching until completion of the closing motion.

Above glossary was compiled by the National Association of Relay Manufacturers.

Reactance Charts



These charts make simple the approximation of reactance when the frequency and either the inductance or capacitance are known.



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MGP4	800	✓	318	.175	5.0	3	6.3	0	LB
MGP5	900	✓	345	.250	5.0	3	6.3	0	MB
MGP6	700	✓	255	.250					KB
MGP7	1100	✓	419	.250					LB
MGP8	1600	✓	640	.250					MB

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MGF4	5.0	10.0	2,500	HB
MGF5	6.3	2.0	2,500	FB
MGF6	6.3	5.0	2,500	GB
MGF7	6.3	10.0	2,500	JB
MGF8	6.3	20.0	2,500	KB
MGF9	2.5	10.0	10,000	JB
MGF10	5.0	10.0	10,000	KB

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									0.25
MPT1	✓	✓	0.25	0.25	0.2-1.0	0.04	3	0.7	250
MPT2	✓	✓	0.25	0.25	0.2-1.0	0.04	3	0.7	250
MPT3	✓	✓	0.5	0.5	0.2-1.5	0.02	3	1.0	250
MPT4	✓	✓	0.5	0.5	0.2-1.5	0.02	2	1.0	250
MPT5	✓	✓	0.5	0.5	0.5-2.0	0.02	3	1.0	500
MPT6	✓	✓	0.5	0.5	0.5-2.0	0.02	2	1.0	500
MPT7	✓	✓	0.7	0.7	0.5-1.5	0.02	3	1.5	200
MPT8	✓	✓	0.7	0.7	0.5-1.5	0.02	2	1.5	200
MPT9	✓	✓	1.0	1.0	0.7-3.5	0.02	3	2.0	200
MPT10	✓	✓	1.0	1.0	0.7-3.5	0.02	2	2.0	200
MPT11	✓	✓	1.0	1.0	1.0-5.0	0.02	3	2.0	500
MPT12	✓	✓	0.15	0.3/0.3	0.2-1.0	0.04	4	0.7	700

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MGA5	Single Plate to Line	7.4E	✓	600 Split	✓	40 40	33
MGA6	Single Plate to Voice Coil	7.0E	✓	4.0, 16	✓	40 40	33
MGA7	Single or P.P. Plates to Line	15E	✓	600 Split	✓	10 10	33
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While every precaution is taken to insure accuracy, we cannot guarantee against the possibility of an occasional change or omission in the preparation of this index.

INDEX OF LOCALIZERS

In the free "Alphabetical Listing of Manufacturers" in the *Electronic Industries Directory* published in this issue, many manufacturers use "Localizer Advertisements"—listings of their engineering, executive and sales personnel, and Representatives, regional offices, branches, etc.—all appearing immediately under the manufacturer's name. Department starts on Page 419.

Amphenol Electronics Corp.	Gabriel Electronics Div., The Gabriel Co.	Nems Clark Co.
Andrew Corporation	General Bronze Corporation	Packard Bell Electronics Corp.
Arnold Engineering Company	Hackensack Cable Corporation	Patlar Aeronautical Company
Bendix Computer Division of Bendix Aviation Corporation	International Rectifier Corporation	Radio Corporation of America, Electron Tube Div.
Centralab, A Division of Globe-Union Inc.	Laminated Products Department of General Electric Company	Radio Corporation of America, Semiconductor and Material Division
Clevite Electronic Components, Division of Clevite Corporation	Microtran Co.	Scintilla Division, Bendix Aviation Corporation
Conrad, Inc.	Motorola, Inc., Semiconductor Prods. Div.	Technical Appliance Corporation (TACO)
Cook Company Frank R. Eitel-McCullough, Inc.	Narda Ultrasonics Corporation	
Electronic Fabricators, Inc.	National Vulcanized Fibre Co.	

Facts You Can Use to Identify and Sell Your Electronic O.E.M. Market

WHAT'S THE DIFFERENCE BETWEEN ELECTRONIC O.E.M. AND ELECTRONIC END-USER MARKETS?

The end-user market is where electronic Original Equipment Manufacturers (O.E.M.'s) sell their military, industrial and commercial products. It is an "after market," entirely distinct from the original market where O.E.M.'s buy their materials, components, and sub-systems.

End-users—commercial, industrial and government—buy finished electronic products like broadcast transmitters, industrial controlling equipment, radar systems, computers, and missile guidance systems. The original equipment (O.E.M.) market buys tubes, semiconductors, wire, solder, plastics, pre-assembled circuits and sub-systems, power supplies, relays, etc.—in production quantities—for assembly and resale to end-users.

Although these "before" and "after" electronic markets are sometimes lumped into one, the people in them differ in buying motive, selling technique, and personal identity. *The O.E.M.'s are in the market for "producers goods"; the end-users are in the market for "capital goods."*

O.E.M. MARKET RESEARCH WITH THE NEW E.I.C. CODE

The government's Standard Industrial Classification (S.I.C.) fails to distinguish electrical from electronic manufacturers. For years this has forced manufacturers relying on S.I.C. market data to promote electronic components to electrical and electronic markets which cannot buy them in production quantities.

Now a new Electronic Industries Classification, the E.I.C. Code, has been developed to provide 101 major classifications for electronic products only. Data from an independent census of original equipment builders and suppliers are being punched on the IBM cards according to the E.I.C. Code.

Now you will be able to identify and measure your electronic O.E.M. market potentials using the E.I.C. Code, and ELECTRONIC INDUSTRIES IBM facilities. For more information contact your EI representative.

CAN ELECTRONIC O.E.M. MARKETS BE ECONOMICALLY REACHED THRU ROCKET AND MISSILE,

AUTOMATION, AVIATION, AND OTHER END-USER PUBLICATIONS?

Electronic engineers working for aircraft, missile and industrial control manufacturers continue to submit most of their declassified theory and technique for publication in electronic—not end-user—magazines. Here, they know, is where fellow specialists working for other aircraft, missile, and control builders will be looking for electronic progress in these fields.

You will see over 80% of the contributed articles on missile electronics, electronic controls, and avionics in ELECTRONIC INDUSTRIES, Electronics engineering edition, Electronic Design, Electronic Equipment Engineering, and Proceedings of the IRE. Each one of these magazines alone reaches more electronic engineers in missile, industrial control, and aircraft activities than any TWO of the fourteen end-user publications aimed at these fields.

... and ELECTRONIC INDUSTRIES delivers you more electronic O.E.M. subscribers in missile, aircraft, and control fields than any THREE end-user magazines.

ARE ELECTRONIC O.E.M. BUYING INFLUENCES REACHED BY "TECHNICAL MANAGEMENT" WEEKLIES, OR BY ENGINEERING MONTHLIES?

Original electronic manufacturers and end-users need to interweave both engineering and cost judgments in order to buy intelligently. These cost judgments involve management participation, obviously, when the product is purchased as capital equipment. Typical examples are the financial and labor-saving calculations necessary in the purchase of electronic automation equipment by industrial and commercial enterprises.

But with the exception of such capital goods as test instruments and light production equipment, the original electronic manufacturer buys only for assembly and resale to end-users. Here cost engineering is largely outside the scope of management decision. *Cost evaluation of alternate electronic subsystems and components is accepted as a problem only for working engineers—engineers conversant with the latest ideas in the monthly technical literature.*

For these reasons, electronic ads in missile, electronic and aircraft weeklies are sometimes logical for finished electronic systems sold to end-users as capital (or military) goods. But when selling "producers goods" to original electronic manufacturers for assembly, system incorporation, and resale, engineering monthlies are the only realistic, and economical, advertising media.

WHY ELECTRONIC INDUSTRIES IS — NOW — THE MOST IMPORTANT PUBLICATION SERVING THE ORIGINAL ELECTRONIC MARKET

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AND, DEFYING INDUSTRY TRENDS, ELECTRONIC INDUSTRIES GAINED IN ADVERTISING IN THE FIRST HALF OF 1958



**THE REAL
STORY
OF THE
TROJAN HORSE**

None of the books will tell you this, but the Trojan War was really brought to an end by radar.

Fact is, the Greeks intended to use a radar-controlled horse as a super-weapon against the Trojans. But the scientists assigned to Project Phony Pony never were able to make it work (faulty tubes, someone said) — which made the Greek commander Odysseus so mad he had all the scientists sealed up inside the horse and left for dead outside the gates of Troy.

The curious Trojans, neglecting to look this gift hearse in the mouth, dragged it inside the city — their last mistake of the war. That night the scientists managed to escape and open the gates of the sleeping city for the Greek Army. No one could have been more surprised at this unexpected victory than Odysseus — but he managed to squelch the real story and claim all the credit for himself. Which goes to show that people haven't changed much in 3500 years. But tubes have.*

No. 3 of a series . . . BOMAC LOOKS AT RADAR THROUGH THE AGES



* Today, Bomac make the finest microwave tubes and components this side of the Acropolis

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Circle 40 on Inquiry Card, page 175

See our ads on pages 198 & 199

Now...RCA 2N301 2N301-A



deliver 85% more



Power Output!



New, improved RCA-2N301 and RCA-2N301-A—now can provide an audio-frequency power output up to 5 watts in class A service at a mounting-flange temperature of 80°C—a significant increase (85%) over the original class A power output of 2.7 watts! These two units offer high reliability, high power efficiency, and low-distortion characteristics in power output stages of automobile radios, high-fidelity amplifiers, juke boxes, intercoms, PA systems, marine and mobile communications equipment, and electronic musical instruments.

RCA also announces the addition of three types to its expanding line of POWER OUTPUT TRANSISTORS: 2N176, 2N351, 2N376. For additional information on these types and the complete line of RCA transistors, contact your RCA field representative at the field office nearest you. For technical data on RCA POWER TRANSISTORS listed above, write RCA Commercial Engineering, Section F-50-NN, Somerville, N. J.

Type	MAXIMUM RATINGS			TYPICAL OPERATION*		
	Collector* Dissipation Watts	Peak Collector— to Base Volts	Peak Collector Current Amperes	Class A Service		Class B Service Max 50 Power Output (2 transistors) Watts
				Max 50 Power Output Watts	Power Gain dB	
2N301	11	40	3	5	33 at 5 watts	12
2N301-A	11	40	3	5	33 at 5 watts	12
2N176	10	40	3	2	35.5	—
2N351	10	40	3	4	33.5	—
2N376	10	40	3	4	35	—

*At mounting flange temperature of 80°C.



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