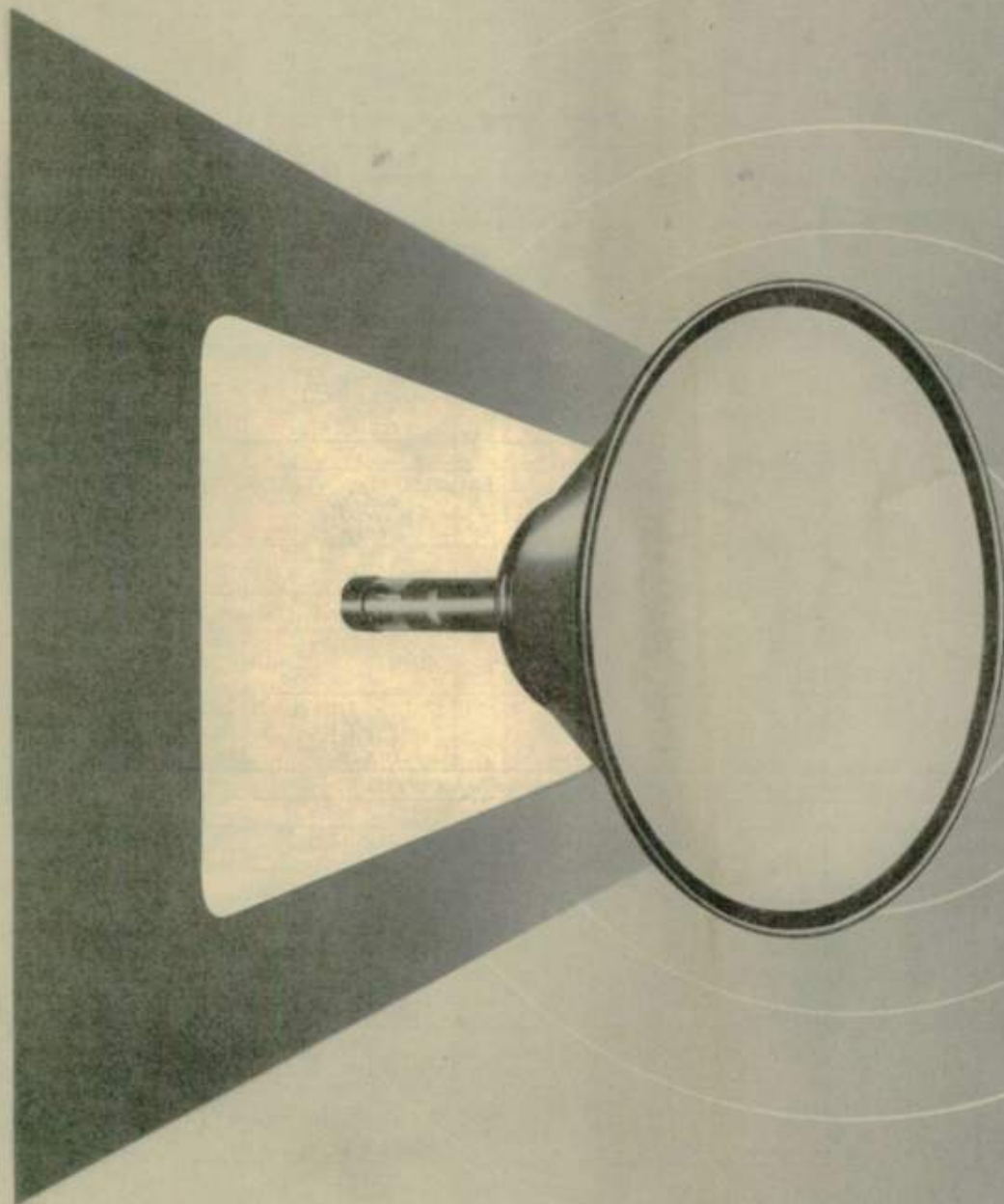


RCA RECEIVING TUBES

FOR AM, FM, AND TELEVISION BROADCAST



CHARACTERISTICS AND SOCKET CONNECTIONS

Rectifiers · Detectors · Converters · Mixers · Power Amplifiers

Kinescopes · Voltage Amplifiers · Oscillators

PRICE 10 CENTS

Form No. 1275-E

RCA Receiving Tubes

The two charts in this booklet are designed to help tube users in identifying type designations and characteristics of RCA receiving tubes in-

cluding kinescopes—tubes which are used primarily in AM, FM, and television broadcast receivers. Chart 1 is arranged to permit quick

1. RECEIVING TUBE CLASSIFICATION CHART

A—Kinescopes

KINESCOPES			3	5	7	9	10	12	16 (Metal)
Approx. Bulb Diameter (Inches)									
Directly Viewed	Focusing Method	Deflection Method							
	electrostatic	electrostatic	3KP4		7JP4				
	electrostatic	magnetic			7DP4	9AP4		12AP4	
	magnetic	magnetic					10BP4 10BP4-A	12LP4 12LP4-A	16AP4-A 16GP4
Projection	electrostatic	magnetic		5TP4					

B—Rectifiers, Detectors, Power and Voltage Amplifiers, Converters and Mixers, Electron-Ray Tubes

Types having similar characteristics and the same cathode voltage are bracketed.

Cathode Volts			1.25—1.4		2.0—5.0		6.3—117.0			
			Sub-miniature	Miniature	Other	Octal	Other	Miniature	Octal	Other
RECTIFIERS (For rectifiers with amplifier units, see POWER AMPLIFIERS).										
Half-Wave	vacuum	Peak Inverse Volts						35W4 45Z3 117Z3	6W4-GT 25W4-GT (35Z4-GT, 35Z5-GT) 45Z5-GT 117Z4-GT	1-v 12Z3 35Y4 35Z3
		Below 1500								
		Above 1500		1V2 1X2	1B3-GT					81
Full-Wave	vacuum	Below 1500				{ 5Y3-G 5AZ4 5Z4 5Y3-GT, 5Y4-G 80 [5V4-G, 5W4 83-V]		{ 6X4 6X5, 6X5-GT 6AX5-GT 6ZY5-G 84/6Z4		7Y4 7Z4
		Above 1500				{ 5T4, 5U4-G 5Z3 5X4-G				
	mercury-vapor	Above 1500					82 83			
	gas	Below 1500				Cold-Cathode Types 0Y4, 0Z4, 0Z4-G				
	Doubler	vacuum	Below 1500						{ 25Z6, 25Z6-GT 50Y6-GT 50Y7-GT 117Z6-GT	25Z5) 50X6
DIODE DETECTORS (For diode detectors with amplifier units, see VOLTAGE AMPLIFIERS and also POWER AMPLIFIERS).										
One Diode				1A3						
Two Diodes								6AL5 12AL5	{ 6H6, 6H6-GT 12H6	7A6
POWER AMPLIFIERS with and without Rectifiers, Diode Detectors, and Voltage Amplifiers.										
Triodes	low-mu	single unit				2A3 31 49 45 46 71-A			6AS7-G 6B4-G	6A3 50
	high-mu	single unit							6AC5-GT	
						{ 1J6-GT 19			{ 6N7, 6N7-GT 6A6	
		twin unit		1C6-GT		53			6AQ7-GT 6Z7-G	79
direct-coupled arrangement									6N6-G	6B5
Beam Tubes	single unit			{ 1Q5-GT 3Q5-GT* 1T5-GT 3LF4*				6AS5 6AQ5 (35B5, 35C5) (50B5, 50C5)	6AU5-GT 6BG6-G { 6L6 6BQ6-GT 6CD6-G { 6L6-G 6V6 { 6V6-GT 6Y6-G { 25L6 35L6-GT 19BG6-G 50C6-G 50L6-GT	7A5 14A5 7C5 14C5 35A5 50A5
	with rectifier								32L7-GT 70L7-GT { 117L7/M7-GT 117P7-GT 117N7-GT	
Pentodes	single unit		1AC5 { 1S4 3S4* 3Q4* 3V4*	1A5-GT 1C5-GT 1LA4 1LB4	{ 1F4 1C5-G	{ 1F5-G 2A5 33 47 59	{ 6AK6 6AR5	6C6-G { 6AG7 { 6F6, 6F6-G, 6F6-GT 42 { 6K6-GT 41 (25A6 43)		7B5 7AD7 38 89
	with medium-mu triode								6AD7-G	
	with diode and triode			1D8-GT						
	with rectifier									12A7
	twin unit					1E7-GT				

Litho. in U.S.A. 7-50

RCA RECEIVING TUBES

determination of the type designations of RCA receiving tubes according to their functions and cathode voltages. Chart 2, starting on the next

page, lists characteristics of all RCA receiving tubes including kinescopes and, in addition, includes RCA discontinued types.

RECEIVING TUBE CLASSIFICATION CHART—Cont'd

Types having similar characteristics and the same cathode voltage are bracketed.

Cathode Volts		1.25—1.4			2.0—5.0		6.3—117.0					
		Sub-miniature	Miniature	Other	Octal	Other	Miniature	Octal	Other			
CONVERTERS & MIXERS (For other types used as Mixers, see VOLTAGE AMPLIFIERS).												
Converters	pentagrid	1E8	1R5	1A7-GT 1LA6 1LC6	{1C7-G 1D7-G}	1C6 1A6 2A7	{6BE6 12BA7 {6BA7	6SA7 6SA7-GT 12SA7 12SA7-GT 6SB7-Y	{6A8, 6A8-G 6A8-GT, 6D8-G 12A8-GT	{6A7 7B8 7Q7 14B8 14Q7		
	triode-hexode							{6K8, 6K8-G}	12K8			
	triode-heptode							6J8-G		7S7 7J7 14J7		
	octode									7A8		
Mixers	pentagrid							{6L7, 6L7-G}				
ELECTRON-RAY TUBES												
Single	with remote-cutoff triode									6AB5/6N5 6U5		
	with sharp-cutoff triode					2E5				6E5		
Twin	without triode							6AF6-G				
Triple	with triode							6AL7-GT				
VOLTAGE AMPLIFIERS with and without Diode Detectors, TRIODE, TETRODE, AND PENTODE DETECTORS, OSCILLATORS.												
Triodes	medium-mu	single unit			1C4-GT 1LE3 26	{1H4-G 30}	27 56	6C4 6S4	{6C5, 6C5-GT 6J5, 6J5-GT}	12J5-GT {6L5-G 6P5-GT}	7A4 14A4 76 37	
		with rf pentode									6F7	
		with power pentode							6AD7-G			
		with pentode and diode			1D8-GT 3A8-GT*							
		with two diodes				{1H6-G	1B5/25S 55	{6BF6 6SR7, 6ST7 12SR7}	6R7, 6R7-GT		7E6 14E6 85	
		twin unit						6J6 19J6 12AU7*	{6F8-G, 6SN7-GT 6C8-G}	12SN7-GT 12AH7-GT	7AF7 14AF7 7F8 14F8 7N7 14N7	
	high-mu	single unit						6AB4	{6F5, 6F5-GT 6SF5, 6SF5-GT}	12F5-GT 6K5-GT 25AC5-GT	7B4	
		with diode			1H5-GT 1LH4							
		with two diodes					2A6	12AT6 {6AT6 6AQ6 12AV6 {6AV6	6Q7, 6Q7-G 6Q7-GT, 6S27 6SQ7, 6SQ7-GT 6B6-G	12Q7-GT 6T7-G {12SQ7 12SQ7-GT}	7B6 14B6 7C6 75	
		with three diodes						6T8, 19T8	6S8-GT, 12S8-GT			
twin unit						12AT7* 12AX7*	6SC7, 12SC7 6SL7-GT, 12SL7-GT		7F7 14F7 7K7 7X7			
Tetrodes	remote-cutoff					35						
	sharp-cutoff					24-A 32				36		
Pentodes	remote-cutoff	single unit	1T4	1LC5 1P5-GT	{1D5-GP 1A4-P}	34 58	{6BD6 12BD6 6BA6 12BA6 6BJ6	{6SK7, 6SK7-GT 12SK7, 12SK7-GT 6SG7 {6D6 12SC7 {6U7-G 6AB7 6SS7	{6K7, 6K7-G 6K7-GT 12K7-GT 6S7 6S7-G}	78 7A7 14A7 7H7 14H7 7AH7 7B7 39/44		
		with triode								6F7		
		with diode							6SF7, 12SF7			
		with two diodes					2B7		12C8 {6B8 6B8-G}	6B7 {7E7 14E7 7R7 14R7}		
	sharp-cutoff	single unit	1AD5	1L4 1U4	1LC5 1LN5 1N5-GT	{1E5-GP 1B4-P}	57	{6AG5, 6AK5 6BC5, 6CB6 12AW6 6AH6 6BH6 6AU6 {12AU6	{6SJ7 6SJ7-GT}	{12SJ7 12SJ7-GT}	6AC7 12J7-GT	7AC7 7C7 7L7 14C7 7V7 7W7
		with diode	1T6	1S5 1U5	1LD5							
with two diodes					1F7-G	1F6						

* Filament arranged for either 1.4-or 2.8-volt operation. ^ Heater arranged for either 6.3-or 12.6-volt operation.

2. RECEIVING TUBE CHARACTERISTICS CHART

In this chart, characteristics of RCA receiving tubes, including discontinued RCA types, are listed in numerical-alphabetical sequence of type designations.

Type	Name	Tube Dimensions	Cathode Type and Rating			Use Values to right give operating conditions and characteristics for indicated typical use	Plate Supply Volts	Grid Bias Volts	Screen Supply Volts	Screen Current Ma.	Plate Current Ma.	AC Plate Resistance Ohms	Transconductance (Grid-plate) μ mhos	Amplification Factor	Load for Stated Power Output Ohms	Power Output Watts	Type		
			C. T.	Volts	Amp.														
00-A	Detector Triode	D12	D.C. F	5.0	0.25	Grid-Leak Detector	45	Grid Return to (-) Filament			1.5	30000	666	20	—	—	00-A		
01-A	Detector Amplifier	D12	D.C. F	5.0	0.25	Class A Amplifier	90 135	- 4.5 - 9.0	—	—	2.5 3.0	11000 10000	725 800	8.0	—	—	01-A		
0Y4	Half-Wave Gas Rectifier	B2	Cold			Rectifier	Max. Peak Inverse Plate Volts, 300 Max. D-C Starting Volts, 95						Max. Peak Plate Current, 500 ma. Max. D-C Output Current, 75 ma.				0Y4		
0Z4	Full-Wave Gas Rectifier	B2	Cold	—	—	Rectifier	Starting-Supply Voltage per Plate, 300 min. peak volts. Peak Plate Current, 200 max. ma. D-C Output Current, 75 max., 30 min. ma. D-C Output Voltage, 300 max. volts.												0Z4
0Z4-G	Full-Wave Gas Rectifier	B1a	Cold	—	—	Rectifier													0Z4-G
1A3	HF Diode	B0	H	1.4	0.15	Detector Rectifier	Max. Peak Inverse Volts, 330 Max. Peak Plate Ma., 5						Max. D-C Output Ma., 0.5 Max. Peak Heater-Cathode Volts, 140				1A3		
1A4-P	Remote-Cutoff Pentode	D0	D.C. F	2.0	0.06	Amplifier	For other characteristics, refer to Type 1D5-GP.										1A4-P		
1A5-GT	Power Amplifier Pentode	C3	D.C. F	1.4	0.05	Class A Amplifier	85 90	- 4.5 - 4.5	85 90	0.7 0.8	3.5 4.0	300000 300000	800 850	—	25000 25000	0.100 0.115	1A5-GT		
1A6	Pentagrid Converter	D0	D.C. F	2.0	0.06	Converter	135 180	{ - 3.0 } min.	67.5 67.5	2.5 2.4	1.2 1.3	400000 500000	Anode-Grid (#2): 180 μ max. volts, 2.3 ma. Oscillator-Grid (#1) Resistor = Conversion Transcond., 300 micromhos.				1A6		
1A7-GT	Pentagrid Converter	C3	D.C. F	1.4	0.05	Converter	90	0	45 Φ	0.7	0.6	600000	Anode-Grid (#2): 90 max. volts, 1.2 ma. Oscillator-Grid (#1) Resistor, 0.2 meg. Conversion Transcond., 250 micromhos.				1A7-GT		
1AC5	Power Pentode	A	F	1.25	0.04	Class A Amplifier	30 45 67.5	- 2 - 3 - 4.5	30 45 67.5	0.1 0.2 0.4	0.5 1.0 2.0	200000 170000 150000	450 600 750	— — —	50000 40000 25000	5 15 50	1AC5		
1AD5	Sharp-Cutoff Pentode	A	F	1.25	0.04	Class A Amplifier	30 45 67.5	0 0 0	30 45 67.5	0.16 0.35 0.75	0.45 0.9 1.85	700000 700000 700000	430 580 735	— — —	— — —	— — —	1AD5		
1B3-GT	Half-Wave Rectifier	D2	F	1.25	0.2	Half-Wave Rectifier	Max. Peak Inverse Plate Volts, 30000 Max. Peak Plate Ma., 17						Max. Average Plate Ma., 2 Max. Frequency of Supply Voltage, 300 Kc				1B3-GT		
1B4-P	RF Amplifier Pentode	D0	D.C. F	2.0	0.06	Amplifier	For other characteristics, refer to Type 1E5-GP.										1B4-P		
1B5/25S	Duplex-Diode Triode	D6	D.C. F	2.0	0.06	Triode Unit as Amplifier	For other characteristics, refer to Type 1H6-G.										1B5/25S		
1B7-GT	Pentagrid Converter	C3	D.C. F	1.4	0.10	Converter	90	0	45 Φ	1.3	1.5	350000	Anode-Grid (#2): 90 max. volts, 1.6 ma. Oscillator-Grid (#1) Resistor, 0.2 meg. Conversion Transcond., 350 micromhos.				1B7-GT		
1C5-GT	Power Amplifier Pentode	C2b	D.C. F	1.4	0.10	Class A Amplifier	83 90	- 7.0 - 7.5	83 90	1.6 1.6	7.0 7.5	110000 115000	1500 1550	—	9000 8000	0.20 0.24	1C5-GT		
1C6	Pentagrid Converter	D0	D.C. F	2.0	0.12	Converter	For other characteristics, refer to Type 1C7-G.										1C6		
1C7-G	Pentagrid Converter	D0	D.C. F	2.0	0.12	Converter	135 180	- 3.0 - 3.0	67.5 67.5	2.5 2.0	1.3 1.5	600000 700000	Anode-Grid (#2): 180 μ max. volts, 4.0 ma. Oscillator-Grid (#1) Resistor = Conversion Transcond., 325 micromhos.				1C7-G		
1D5-GP	Remote-Cutoff Pentode	D0	D.C. F	2.0	0.06	Class A Amplifier	90 180	{ - 3.0 } min.	67.5 67.5	0.9 0.8	2.2 2.3	600000 1.0 Φ	720 750	—	—	—	1D5-GP		
1D5-GT	Remote-Cutoff Triode	D0	D.C. F	2.0	0.06	Class A Amplifier	180	- 3.0	67.5	0.7	2.2	600000	650	—	—	—	1D5-GT		
1D7-G	Pentagrid Converter	D0	D.C. F	2.0	0.06	Converter	For other characteristics, refer to Type 1A6.										1D7-G		
1D8-GT	Diode-Triode-Power Amplifier Pentode	C2b	D.C. F	1.4	0.10	Pentode Unit as Class A Amplifier Triode Unit as Class A Amplifier	45 45 90	- 4.5 - 9.0 0	45 90 0	0.3 1.0 1.1	1.6 5.0 0.3	300000 200000 43500	650 925 325	— — 25	20000 12000 25	0.035 0.200 —	1D8-GT		

Four vertical rules before or after type No. = Subminiature type.

Three vertical rules before or after type No. = Miniature type having either 7 or 9 pins.

Two vertical rules before or after type No. = Metal type.

One vertical rule before or after type No. = GT or other larger glass type.

Light Face = Discontinued type.

For key to tube dimensions and, legend for base and envelope connection diagrams, see page 23.

★ For Grid-leak Detection—plate volts 45, grid return to + filament or to cathode.

◊ Grids #3 and #5 are screen. Grid No. 4 is signal-input grid.

† Power output is for two tubes at stated plate-to-plate load.

▲ Grids #2 and #4 are screen. Grid #3 is signal-input control grid.

◆ For two tubes.

◊ 50000 ohms.

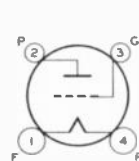
§ Megohms.

◆ Obtained preferably by using 70000-ohm voltage-dropping resistor in series with 90-volt supply.

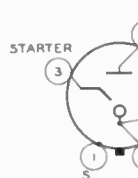
◊ For grid of following tube.

■ Applied through plate resistor of 250000 ohms.

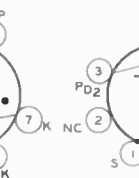
■ Either ac or dc may be used on filament or heater, except as specifically noted. For use of dc on ac filament types, decrease stated grid volts by 1/2 (approx.) of filament voltage.



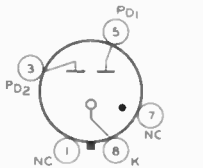
00-A 01-A



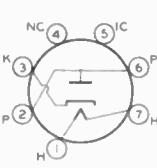
0Y4



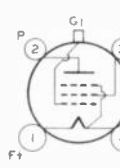
0Z4



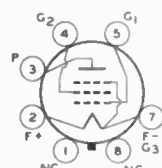
0Z4-G



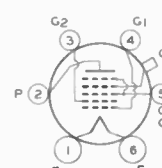
1A3



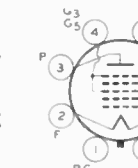
1A4-P 1B4-P



1A5-GT 1C5-GT



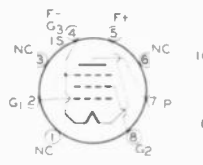
1A6 1C6



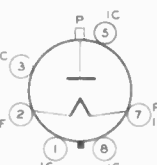
1A7-GT 1B7-GT



1AC5



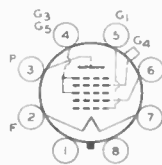
1AD5



1B3-GT



1B5/25S



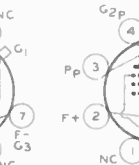
1C7-G 1D7-G



1D5-GT



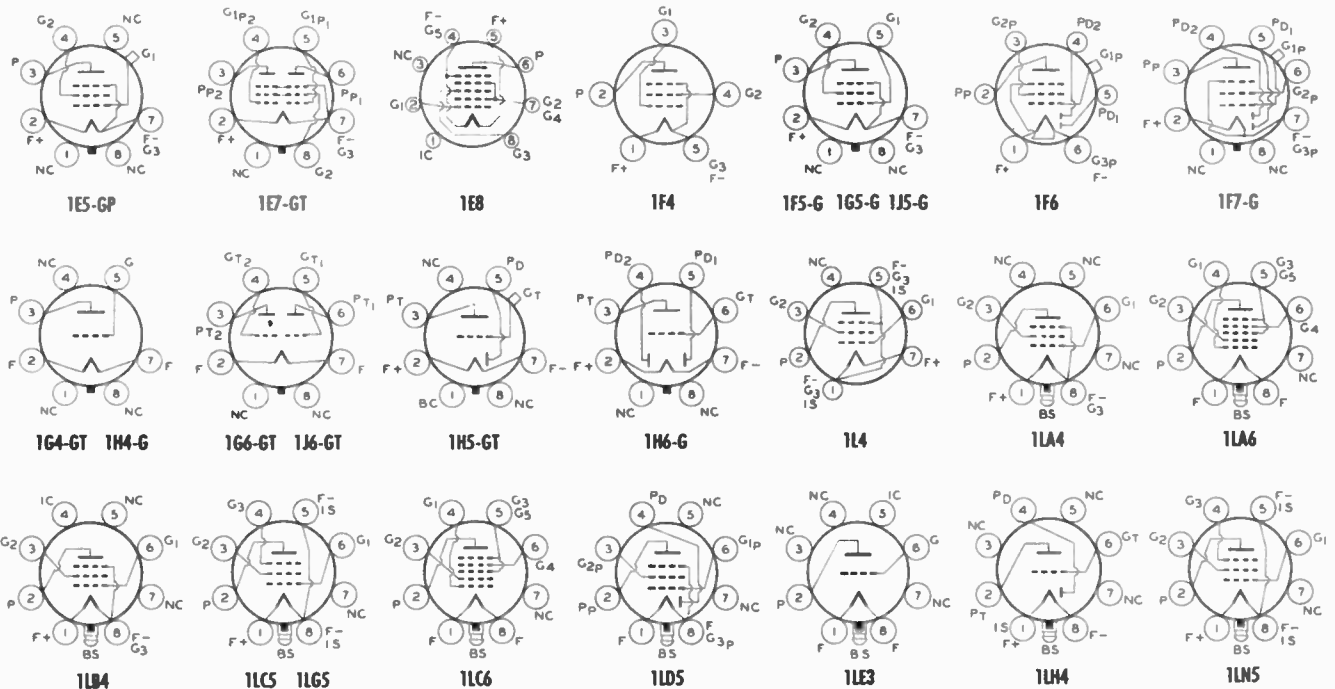
1D5-GP



1D8-GT

 Type	Name	Tube Dimensions	Cathode Type and Rating			Use Values to right give operating conditions and characteristics for indicated typical use	Plate Supply	Grid Bias	Screen Supply	Screen Current	Plate Current	AC Plate Resistance	Trans-conductance (Grid-plate)	Amplification Factor	Load for Stated Power Output	Power Output	 Type	
			C.T.	Volts	Amp.		Volts	Volts	Volts	Ma.	Ma.	Ohms	μ mhos		Ohms	Watts		
1E5-GP	RF Amplifier Pentode	D8	D.C. F	2.0	0.06	Class A Amplifier	90 180	— 3.0 — 3.0	67.5 67.5	0.7 0.6	1.6 1.7	1.0 $\frac{1}{2}$ 1.3	600 650	—	—	—	1E5-GP	
1E7-GT	Twin-Pentode Power Amplifier	C20	D.C. F	2.0	0.24	Class A Amplifier	135	— 7.5	135	—	Power Output is for one tube at stated plate-to-plate load.				24000	0.575	1E7-GT	
1E8	Pentagrid Converter	A	F	1.25	0.04	Converter	30 45 67.5	0 0 0	30 45 67.5	0.8 1.1 1.5	0.3 0.6 1.0	300000 400000 400000	Oscillator Grid (# 1) Resistor, 0.1 meg. Conversion Transcond., 150 micromhos				1E8	
1F4	Power Amplifier Pentode	D12	D.C. F	2.0	0.12	Amplifier	For other characteristics, refer to Type 1F5-G.											1F4
1F5-G	Power Amplifier Pentode	D10	D.C. F	2.0	0.12	Class A Amplifier	90 135	— 3.0 — 4.5	90 135	1.1 2.4	4.0 8.0	240000 200000	1400 1700	—	20000 16000	0.11 0.31	1F5-G	
1F6	Duplex-Diode Pentode	D9	D.C. F	2.0	0.06	Pentode Unit as Amplifier	For other characteristics, refer to Type 1F7-G.											1F6
1F7-G	Duplex-Diode Pentode	D8	D.C. F	2.0	0.06	Pentode Unit as RF Amplifier	180	— 1.5	67.5	0.7	2.2	1.0 $\frac{1}{2}$	650	—	—	—	1F7-G	
						Pentode Unit as AF Amplifier	135	— 2.0	Screen Supply, 135 volts applied through 0.8-megohm resistor. Grid Resistor, ** 1.0 megohm. Voltage Gain, 46.									
1G4-GT	Medium-Mu Triode	C4	D.C. F	1.4	0.05	Class A Amplifier	90	— 6.0	—	—	2.3	10700	825	8.8	—	—	1G4-GT	
1G5-G	Power Amplifier Pentode	D10	D.C. F	2.0	0.12	Class A Amplifier	90 135	— 6.0 — 13.5	90 135	2.5 2.5	8.5 8.7	133000 160000	1500 1550	—	8500 9000	0.25 0.55	1G5-G	
1G6-GT	Twin-Triode Amplifier	C4	D.C. F	1.4	0.10	Class B Amplifier	90	0	—	—	Power Output is for one tube at stated plate-to-plate load.				12000	0.350	1G6-GT	
1H4-G	Detector Amplifier	D3	D.C. F	2.0	0.06	Class A Amplifier	90 135 180	— 4.5 — 9.0 — 13.5	— — —	— — —	2.5 3.0 3.1	11000 10300 10300	850 900 900	9.3 9.3 9.3	— — —	— — 8000	— — 2.1 $\frac{1}{2}$	1H4-G
						Class B Amplifier	157.5	— 15.0	—	—	1.0 $\frac{1}{2}$	—	—	—	—	—	—	
1H5-GT	Diode High-Mu Triode	C3	D.C. F	1.4	0.05	Triode Unit as Class A Amplifier	90	0	—	—	0.15	240000	275	65	—	—	1H5-GT	
1H6-G	Duplex-Diode Triode	D3	D.C. F	2.0	0.06	Triode Unit as Class A Amplifier	135	— 3.0	—	—	0.8	35000	575	20	—	—	1H6-G	
1J5-G	Power Pentode	D10	D.C. F	2.0	0.12	Class A Amplifier	135	— 16.5	135	2.0	7.0	105000	950	—	13500	0.45	1J5-G	
1J6-GT	Twin-Triode Amplifier	C10	D.C. F	2.0	0.24	Class B Amplifier	135 135	0 — 3.0	— —	— —	Power Output is for one tube at stated plate-to-plate load.				10000 10000	2.2 2.0	1J6-GT	
1L4	RF Amplifier Pentode	B0	D.C. F	1.4	0.05	Class A Amplifier	90 90	0 0	67.5 90	1.2 2.0	2.9 4.5	600000 260000	925 1025	—	—	—	1L4	
1LA4	Power Amplifier Pentode	B5	D.C. F	1.4	0.05	Amplifier	For other characteristics, refer to Type 1A5-GT.											1LA4
1LA6	Pentagrid Converter	B5	D.C. F	1.4	0.05	Converter	90	0	45 $\frac{1}{2}$	0.6	0.55	750000	Anode-Grid (# 2): 90 max. volts, 1.2 ma. Oscillator Grid (# 1) Resistor, 0.2 meg. Conversion Transcond., 250 micromhos.				1LA6	
1LB4	Power Amplifier Pentode	B5	D.C. F	1.4	0.05	Class A Amplifier	For other characteristics, refer to Pentode Unit of Type 1D8-GT.											1LB4
1LC5	RF Amplifier Pentode	B5	D.C. F	1.4	0.05	Class A Amplifier	45 90	0 0	45 45	0.35 0.30	1.10 1.15	700000 1.0 $\frac{1}{2}$	750 775	—	—	—	1LC5	
1LC6	Pentagrid Converter	B5	D.C. F	1.4	0.05	Converter	45 90	0 0	35 35	0.75 0.70	0.70 0.75	300000 300000	Anode-Grid (# 2): 45 max. volts, 1.4 ma. Oscillator-Grid (# 1) Resistor, 1.0 meg. Conversion Transcond., 275 micromhos.				1LC6	
1LD5	Diode-Pentode	B5	D.C. F	1.4	0.05	Pentode Unit as Class A Amplifier	Plate Supply, 90 volts applied through 1 meg. resistor. Screen Supply, 90 volts applied through 5.6 meg. resistor. Grid Bias, 0 volts, Grid Resistor, 10 megohms. Voltage Gain, 101 approx.											1LD5
1LE3	Medium-Mu Triode	B5	F	1.4	0.05	Class A Amplifier	90 90	0 — 3	— —	— —	4.5 1.4	11200 19000	1300 760	14.5 14.5	—	—	1LE3	
1LG5	Remote-Cutoff Pentode	B5	F	1.4	0.05	Class A Amplifier	90 90	0 — 1.5	45 90	0.4 0.9	1.7 3.7	1.0 $\frac{1}{2}$ 500000	800 1150	—	—	—	1LG5	
1LH4	Diode High-Mu Triode	B5	D.C. F	1.4	0.05	Triode Unit as Class A Amplifier	For other characteristics, refer to Type 1H5-GT.											1LH4
1LN5	RF Amplifier Pentode	B5	D.C. F	1.4	0.05	Class A Amplifier	90	0	90	0.35	1.6	1.1 $\frac{1}{2}$	800	—	—	—	1LN5	

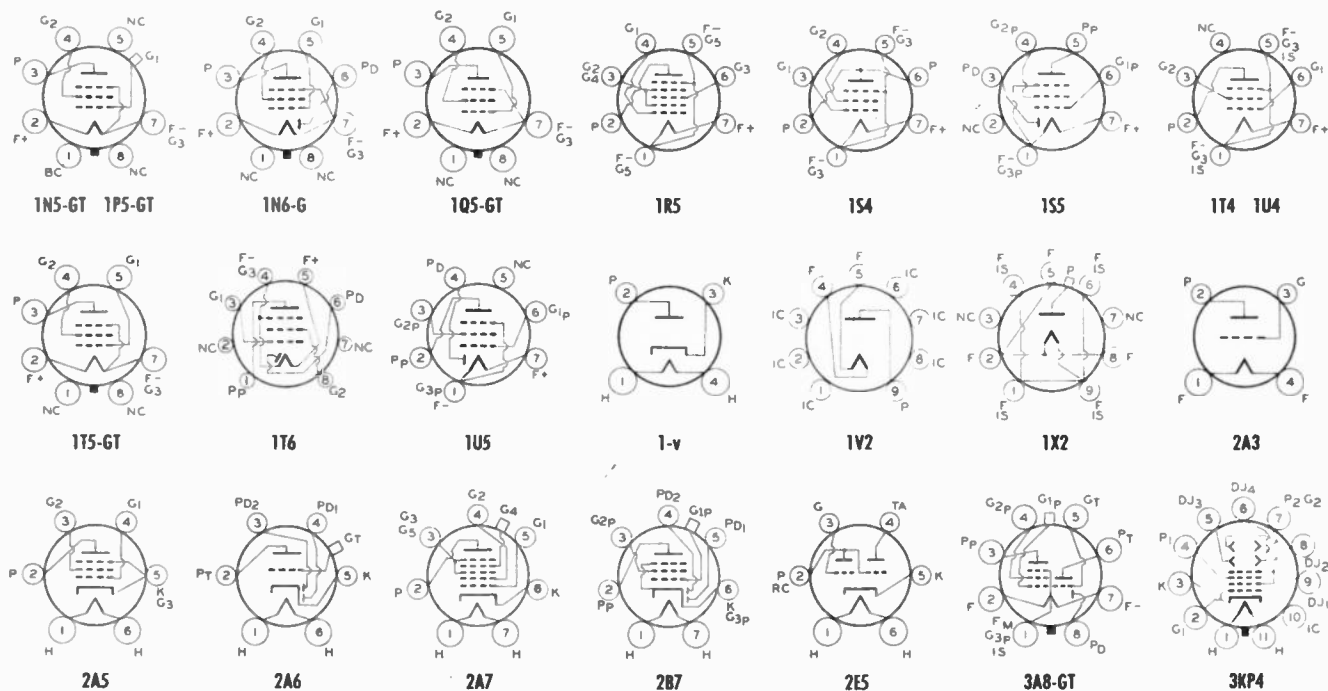
For footnotes, see preceding page.



RCA Type	Name	Tube Di- men- sions	Cathode Type and Rating			Use Values to right give operating conditions and characteristics for indicated typical use	Plate Supply Volts	Grid Bias Volts	Screen Supply Volts	Screen Current Ma.	Plate Current Ma.	AC Plate Resistance Ohms	Trans- conduc- tance (Grid-plate) μ mmhos	Amplifi- cation Factor	Load for Stated Power Output Ohms	Power Out- put Watts	RCA Type	
			C.T.	Volts	Amp.													
1N5-GT	RF Amplifier Pentode	C3	D.C. F	1.4	0.05	Class A Amplifier	90	0	90	0.3	1.2	1.5 Ω	750	—	—	—	1N5-GT	
1N6-G	Diode—Power Amplifier Pentode	D1	D.C. F	1.4	0.05	Pentode Unit as Class A Amplifier	90	— 4.5	90	0.7	3.4	300000	800	—	25000	0.1	1N6-G	
1P5-GT	Remote-Cutoff Pentode	C3	D.C. F	1.4	0.05	Class A Amplifier	90	0	90	0.7	2.3	800000	750	—	—	—	1P5-GT	
1Q5-GT	Beam Power Amplifier	C3	D.C. F	1.4	0.1	Class A Amplifier	90	— 4.5	90	1.3	9.5	90000	2200	—	8000	0.27	1Q5-GT	
1R5	Pentagrid Converter	B0	D.C. F	1.4	0.05	Converter	45 90	0 67.5	45 67.5	1.9 3.2	0.7 1.6	600000 600000	Grid #1 Resistor, 100000 ohms. Conversion Transcond., 300 micromhos.					1R5
1S4	Power Amplifier Pentode	B0	D.C. F	1.4	0.1	Class A Amplifier	45 90	— 4.5 — 7.0	45 67.5	0.8 1.4	3.8 7.4	100000 100000	1250 1575	—	8000 8000	0.065 0.27	1S4	
1S5	Diode-Pentode	B0	D.C. F	1.4	0.05	Pentode Unit as AF Amplifier	Plate Supply, 90 volts applied through 1 meg. resistor. Screen Supply, 90 volts applied through 3 meg. resistor. Grid Bias, 0 volts. Grid Resistor, 10 megohms. Voltage Gain, 50 approx.											1S5
1T4	Super-Control RF Amplifier Pentode	B0	D.C. F	1.4	0.05	Class A Amplifier	45 90	0 0	45 67.5	0.7 1.4	1.7 3.5	350000 500000	700 900	—	—	—	1T4	
1T5-GT	Beam Power Amplifier	C4	D.C. F	1.4	0.05	Class A Amplifier	90	— 6.0	90	0.8	6.5	—	1150	—	14000	0.17	1T5-GT	
1T6	Diode- Pentode	A	F	1.25	0.04	Pentode Unit as Class A Amplifier	30 45 67.5	0 0 0	30 45 67.5	0.10 0.21 0.4	0.33 0.75 1.6	500000 500000 400000	330 475 600	—	—	—	1T6	
1U4	RF Amplifier Pentode	B0	D.C. F	1.4	0.05	Class A Amplifier	90	0	90	0.50	1.0	1.0 Ω	900	—	—	—	1U4	
1U5	Diode-Pentode	B0	D.C. F	1.4	0.05	Pentode Unit as Class A Amplifier	Plate Supply, 90 volts applied through 1 meg. resistor. Screen Supply, 90 volts applied through 3.3 meg. resistor. Grid Bias, 0 volts. Grid Resistor, 10 megohms. Voltage Gain, 66 approx.											1U5
1-v	Half-Wave Rectifier	D5	H	6.3	0.3	With Capacitive- Input Filter	Max. A-C Plate Volts (RMS), 325 Min. Total Effective Plate-Supply Impedance: Up to 117 Max. D-C Output Ma., 45 volts, 0 ohms; at 150 volts, 30 ohms; at 325 volts, 75 ohms.											1-v
1V2	Half-Wave Rectifier	B0a	F	0.625	0.3	Pulsed Rectifier	Max. Peak Inverse Plate Volts, 7500 Max. Average Plate Ma., 0.5											1V2
1X2	Half-Wave Rectifier	B4	F	1.25	0.2	Half-Wave Rectifier	Max. Peak Inverse Plate Volts, 15000 Max. Average Plate Ma., 1 Max. Frequency of Supply Voltage, 300Kc											1X2
2A3	Power Amplifier Triode	E3	F	2.5	2.5	Class A Amplifier Push-Pull Class AB ₁ Amplifier	250 300 300	—45.0 Cath. Bias, 780 ohms —62 volts, fixed bias	— 80.0 80.0	— 60.0 80.0	— — —	800 — —	5250 — —	4.2 — —	2500 5000 3000	3.5 10.0 Ω 15.0 Ω	—	2A3
2A4-G	Glow-Discharge Triode	D3	D.C. F	2.5	2.5	Relay Service	Max. Peak Inverse Anode Volts, 200 Max. Peak Forward Anode Volts, 200											2A4-G
2A5	Power Amplifier Pentode	D12	H	2.5	1.75	Amplifier	For other characteristics, refer to Type 6F6-G.											2A5
2A6	Duplex-Diode High-Mu Triode	D9	H	2.5	0.8	Triode Unit as Amplifier	For other characteristics, refer to Type 6SQ7.											2A6
2A7	Pentagrid Converter	D9	H	2.5	0.8	Converter	For other characteristics, refer to Type 6A8.											2A7
2B7	Duplex-Diode Pentode	D9	H	2.5	0.8	Pentode Unit as Amplifier	For other characteristics, refer to Type 6B8-G.											2B7
2E5	Electron-Ray Tube	D5	H	2.5	0.8	Visual Indicator	For other characteristics, refer to Type 6E5.											2E5
3A8-GT	Diode-Triode RF Amplifier Pentode	C8	D.C. F	1.4 2.8	0.1 0.05	Triode Unit as Class A Amplifier Pentode Unit as Class A Amplifier	90 90	0 0	— 90	— 0.5	0.2 1.5	200000 800000	325 750	65 —	— —	— —	3A8-GT	
3KP4	Directly Viewed Kinescope	G1a	H	6.3	0.6	Picture Reproduction	Focus: Electrostatic Deflection: Electrostatic Phosphor: No. 4 Picture Size: 17" x 21" Picture Size: 17" x 21" Deflection Factors: DJ ₁ and DJ ₂ (nearer screen), 100 to 136 vdc/in./kv; DJ ₃ and DJ ₄ (nearer base), 76 to 104 vdc in. kv. Anode No. 2 and Grid No. 2 Volts, 2500 max. Anode No. 1 Volts for Focus, 320 to 600 (1000 max.) Anode No. 1 Current Range, —15 to +10 microamperes Grid No. 1 Volts for Visual Cutoff, —38 to —90											3KP4

For footnotes, see following page.

Socket connection diagram for 2A4-G on page 7.



RCA Type	Name	Tube Dimensions	Cathode Type and Rating			Use Values to right give operating conditions and characteristics for indicated typical use	Plate Supply Volts	Grid Bias Volts	Screen Supply Volts	Screen Current Ma.	Plate Current Ma.	AC Plate Resistance Ohms	Trans-conductance (Grid-plate) μ mhos	Amplification Factor	Load for Stated Power Output Ohms	Power Output Watts	RCA Type
			C.T.	Volts	Amp.												
3LF4	Beam Power Amplifier	B5	D.C. F	1.4	0.1	Class A Amplifier											3LF4
3Q4	Power Amplifier Pentode	B0	D.C. F	1.4	0.1	Class A Amplifier											3Q4
3Q5-GT	Beam Power Amplifier	C3	D.C. F	1.4	0.1	Class A Amplifier	110	- 6.6	110	1.4	10.0	100000	2200	—	8000	0.40	3Q5-GT
3S4	Power Amplifier Pentode	B0	D.C. F	1.4	0.1	Class A Amplifier	90	- 7	67.5	1.4	7.4	100000	1575	—	8000	0.27	3S4
3V4	Power Amplifier Pentode	B0	D.C. F	1.4	0.1	Class A Amplifier	90	- 4.5	90	2.1	9.5	100000	2150	—	10000	0.27	3V4
5A2A	Full-Wave Rectifier	C2a	F	5.0	2.0												5A2A
5T4	Full-Wave Rectifier	D7	F	5.0	2.0	With Capacitive-Input Filter With Inductive-Input Filter	Max. A-C Volts per Plate (RMS), 450 Max. Peak Inverse Volts, 1550					Max. D-C Output Ma., 225 Max. Peak Plate Ma., 675		Min. Total Effect. Supply Imped. per Plate, 150 ohms			5T4
5TP4	Projection Kinescope	H1	H	6.3	0.6	Picture Reproduction With Reflective Optical System	Focus: Electrostatic Deflection: Magnetic Deflection Angle: 50° Phosphor: No. 4 Picture Size: 18" x 24"					Anode-No. 2 Volts, 27000 (max.) Anode-No. 1 Volts for Focus, 4300 to 5400 (6000 max.) Grid-No. 2 Volts, 200 (350 max.) Grid-No. 1 Volts for Visual Cutoff, -42 to -98		Anode-No. 2 Current Range, 100 to 200 microamperes Anode-No. 1 Current, 75 microamperes (max.) Grid-No. 2 Current Range, -15 to +15 microamperes			5TP4
5U4-G	Full-Wave Rectifier	E2	F	5.0	3.0	With Capacitive-Input Filter With Inductive-Input Filter	Max. A-C Volts per Plate (RMS), 450 Max. Peak Inverse Volts, 1550					Max. D-C Output Ma., 225 Max. Peak Plate Ma., 675		Min. Total Effect. Supply Imped. per Plate, 75 ohms			5U4-G
5V4-G	Full-Wave Rectifier	D10	H	5.0	2.0	With Capacitive-Input Filter With Inductive-Input Filter	Max. A-C Volts per Plate (RMS), 375 Max. Peak Inverse Volts, 1400					Max. D-C Output Ma., 175 Max. Peak Plate Ma., 525		Min. Total Effect. Supply Imped. per Plate, 100 ohms			5V4-G
5W4	Full-Wave Rectifier	C2	F	5.0	1.5	With Capacitive-Input Filter With Inductive-Input Filter	Max. A-C Volts per Plate (RMS), 350 Max. Peak Inverse Volts, 1400					Max. D-C Output Ma., 100 Max. Peak Plate Ma., 300		Min. Total Effect. Supply Imped. per Plate, 50 ohms			5W4
5W4-GT	Full-Wave Rectifier	C5	F	5.0	1.5	With Capacitive-Input Filter With Inductive-Input Filter	Max. A-C Volts per Plate (RMS), 500 Max. Peak Inverse Volts, 1400					Max. D-C Output Ma., 100 Max. Peak Plate Ma., 300		Min. Value of Input Choke, 6 henries			5W4-GT
5X4-G	Full-Wave Rectifier	E2	F	5.0	3.0												5X4-G
5Y3-G	Full-Wave Rectifier	C5	F	5.0	2.0	With Capacitive-Input Filter With Inductive-Input Filter	Max. A-C Volts per Plate (RMS), 350 Max. Peak Inverse Volts, 1400					Max. D-C Output Ma., 125 Max. Peak Plate Ma., 400		Min. Total Effect. Supply Imped. per Plate, 50 ohms			5Y3-G
5Y3-GT	Full-Wave Rectifier	C5	F	5.0	2.0	With Capacitive-Input Filter With Inductive-Input Filter	Max. A-C Volts per Plate (RMS), 500 Max. Peak Inverse Volts, 1400					Max. D-C Output Ma., 125 Max. Peak Plate Ma., 400		Min. Value of Input Choke, 10 henries			5Y3-GT
5Y4-G	Full-Wave Rectifier	D10	F	5.0	2.0												5Y4-G
5Z3	Full-Wave Rectifier	E3	F	5.0	3.0												5Z3
5Z4	Full-Wave Rectifier	C2	H	5.0	2.0	With Capacitive-Input Filter With Inductive-Input Filter	Max. A-C Volts per Plate (RMS), 350 Max. Peak Inverse Volts, 1400					Max. D-C Output Ma., 125 Max. Peak Plate Ma., 375		Min. Total Effect. Supply Imped. per Plate, 50 ohms			5Z4
6A3	Power Amplifier Triode	E3	F	6.3	1.0	Amplifier											6A3
6A4/LA	Power Amplifier Pentode	D12	F	6.3	0.3	Class A Amplifier	100 180	- 6.5 - 12.0	100 180	1.6 3.9	9.0 22.0	83250 45500	1200 2200	—	11000 8000	0.31 1.40	6A4/LA
6A6	Twin-Triode Amplifier	D12	H	6.3	0.8	Amplifier											6A6
6A7	Pentagrid Converter	D9	H	6.3	0.3	Converter											6A7
6A7S	Pentagrid Converter	D9	H	6.3	0.3	Converter											6A7S
6A8	Pentagrid Converter	C1	H	6.3	0.3	Converter	100 250	- 1.5 - 3.0	50 100	1.3 2.7	1.1 3.5	600000 360000					6A8
6A8-G	Pentagrid Converter	D8	H	6.3	0.3	Converter											6A8-G
6A8-GT	Pentagrid Converter	C3	H	6.3	0.3	Converter											6A8-GT

Four vertical rules before or after type No. = Subminiature type.

Three vertical rules before or after type No. = Miniature type having either 7 or 9 pins.

Two vertical rules before or after type No. = Metal type.

One vertical rule before or after type No. = GT or other larger glass type.

Light Face = Discontinued type.

For key to tube dimensions and, legend for base and envelope connection diagrams, see page 23.

Grids #3 and #5 are screen. Grid No. 4 is signal-input grid.

† Power output is for two tubes at stated plate-to-plate load.

▲ Grids #2 and #4 are screen. Grid #3 is signal-input control grid.

Note 1: Subscript 1 on class of amplifier service (as AB₁) indicates that grid current does not flow during any part of input cycle.

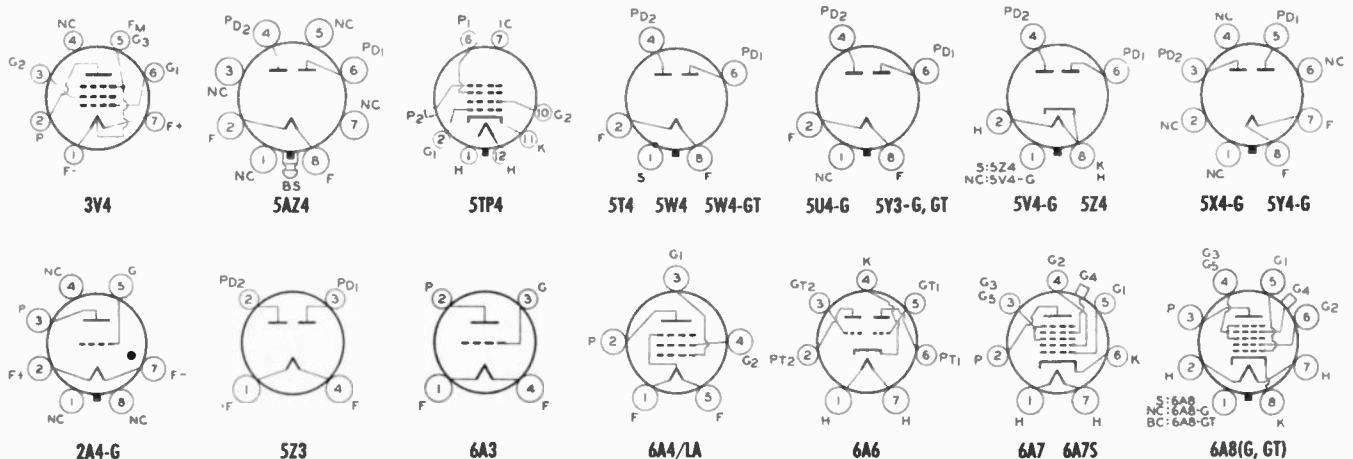
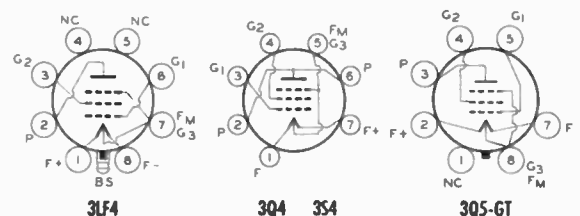
◆ For two tubes.

■ Supply voltage applied through 20000-ohm voltage-dropping resistor.

■ 50000 ohms.

§ Megohms.

■ Either ac or dc may be used on filament or heater, except as specifically noted. For use of dc on ac filament types, decrease stated grid volts by $\frac{1}{2}$ (approx.) of filament voltage.



6AB4 to 6AL7-GT

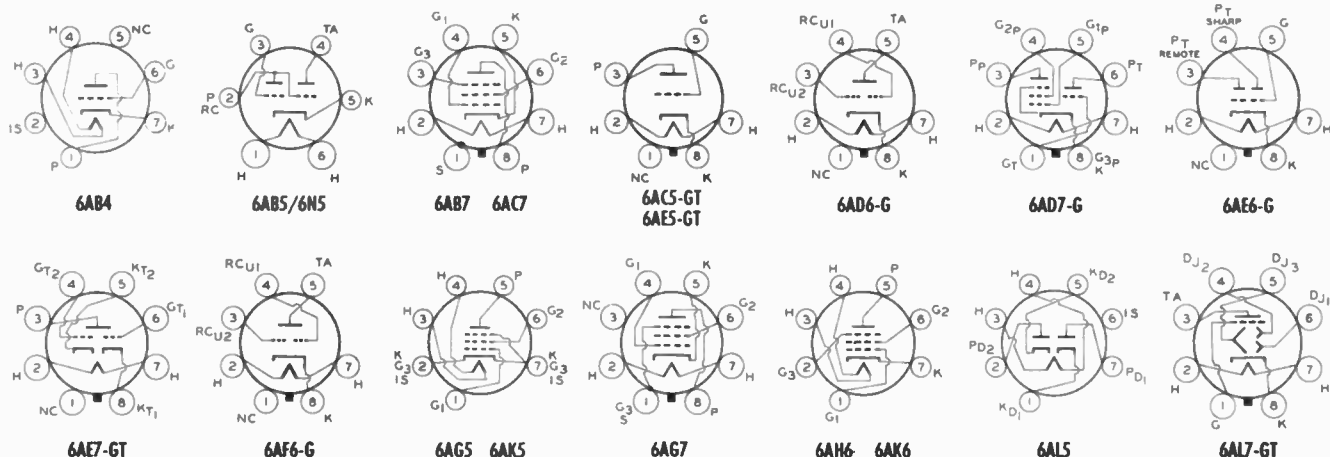
RCA RECEIVING TUBES

RCA Type	Name	Tube Di- men- sions	Cathode Type and Rating			Use Values to right give operating conditions and characteristics for indicated typical use	Plate Supply Volts	Grid Bias Volts	Screen Supply Volts	Screen Current Ma.	Plate Current Ma.	AC Plate Resistance Ohms	Trans- conduc- tance (Grid-plate) μmhos	Amplifi- cation Factor	Load for Stated Power Output Ohms	Power Out- put Watts	RCA Type
			C. T.	Volts	Amp.												
6AB4	RF Amplifier Triode	B0	H	6.3	0.15	Class A Amplifier	100 250	— 1 — 2	—	—	3.7 10.0	—	4000 5500	54 55	—	—	6AB4
6AB5/ 6N5	Electron-Ray Tube	D4	H	6.3	0.15	Visual Indicator	Plate & Target Supply = 135 volts. Triode Plate Resistor = 0.25 meg. Target Current = 2.0 ma. Grid Bias, — 10.0 volts; Shadow Angle, 0°. Bias, 0 volts; Angle, 90°. Plate Current, 0.5 ma. Plate & Target Supply = 135 volts. Triode Plate Resistor = 1.0 meg. Target Current = 1.9 ma. Grid Bias, — 15.5 volts; Shadow Angle, 0°. Bias, 0 volts; Angle 90°. Plate Current, 0.13 ma.										6AB5/ 6N5
6AB7	Remote-Cutoff Pentode	B2	H	6.3	0.45	Class A Amplifier	300	— 3.0	200	3.2	12.5	700000	5000	—	—	—	6AB7
6AC5-GT	High-Mu Power Amplifier Triode	C3	H	6.3	0.4	Class B Amplifier	250	0	—	—	5.0	—	—	—	10000	8.0	6AC5-GT
						Dynamic-Coupled Amplifier With 76 Driver	250	Bias for both 6AC5-GT and 76 is developed in coupling circuit. Average Plate Current of Driver = 5.5 milliamperes. Average Plate Current of 6AC5-GT = 32 milliamperes.									
6AC7	Sharp-Cutoff Pentode	B2	H	6.3	0.45	Class A Amplifier	300	Cath. Bias	150	2.5	10.0	1.0	9000	Cathode-Bias Resistor, 160 ohms			6AC7
6AD6-G	Electron-Ray Tube Twin Indicator Type	B5a	H	6.3	0.15	Visual Indicator	Target Voltage, 100 volts. Control-Electrode Voltage, — 23 volts; Shadow Angle, 135°. Target Current, 0.8 ma. Control-Electrode Voltage, 45 volts; Angle, 0°. Target Current, 1.5 ma. Target Voltage, 150 volts. Control-Electrode Voltage, — 50 volts; Shadow Angle, 135°. Target Current, 1.2 ma. Control-Electrode Voltage, 75 volts; Angle, 0°. Target Current, 3 ma.										6AD6-G
6AD7-G	Triode-Power Amplifier Pentode	D10	H	6.3	0.85	Triode Unit as Class A Amplifier	250	— 25.0	—	—	3.7	19000	325	6	—	—	6AD7-G
						Pentode Unit as Class A Amplifier	250	— 16.5	250	6.5	34.0	80000	2500	—	7000	3.2	
						Pentode Unit With 6F6-G as Push-Pull Class AB ₁ Amplifier	375	Cath. Bias	250	6.7	41.0	Cathode-Bias Resistor, 470 ohms			16000	9.0	
6AE5-GT	Amplifier Triode	C3	H	6.3	0.3	Class A Amplifier	95	— 15.0	—	—	7.0	3500	1200	4.2	—	—	6AE5-GT
6AE6-G	Twin-Plate Control Tube	D3	H	6.3	0.15	Remote Cutoff Triode	250	— 1.5	—	—	6.5	25000	1000	25	—	—	6AE6-G
						Remote Cutoff Triode	250	— 1.5	—	—	4.5	35000	950	33	—	—	
6AE7-GT	Twin-Input Triode Amplifier	C3	H	6.3	0.5	Class A Amp. AA	250	— 13.5	—	—	10.0	4650	3000	14	—	—	6AE7-GT
						Driver for Push- pull 6AC5-GT In Dynamic-Coupled Amplifier	250	Bias for both 6AC5-GT and 6AE7-GT developed in coupling circuit. Zero-Signal Plate Current of 6AE7-GT = 10 milliamperes. Zero-Signal Plate Current of 6AC5-GT = 64 milliamperes. Power Output is for two 6AC5-GT at stated plate-to-plate load.									
6AF6-G	Electron-Ray Tube Twin Indicator Type	B0c	H	6.3	0.15	Visual Indicator	Target Voltage, 125 volts. Control-Electrode Voltage, 0 volts; Shadow Angle, 95°. Target Current, 0.65 ma. Control-Electrode Voltage, 80 volts; Angle, 0°. Target Voltage, 250 volts. Control-Electrode Voltage, 0 volts; Shadow Angle, 95°. Target Current, 2.2 ma. Control-Electrode Voltage, 160 volts; Angle, 0°.										6AF6-G
6AG5	Sharp-Cutoff Pentode	B0	H	6.3	0.3	As Pentode	100	Cath.	100	1.5	4.5	700000	4250	Cath. Bias Res., 180 ohms	—	—	6AG5
						Class A Amplifier	250	Bias	150	2.0	7.0	800000	5000	Cath. Bias Res., 200 ohms	—	—	
						As Triode	180	Cath.	—	—	7.0	7900	5700	Cath. Bias Res., 350 ohms	—	—	
						Class A Amplifier	250	Bias	—	—	5.5	11000	3800	Cath. Bias Res., 825 ohms	—	—	
6AG7	Video Power Amplifier Pentode	C2	H	6.3	0.65	Class A Amplifier	300	Cath. Bias — 2.0	125	7.0	28.0	Cathode-Bias Resistor, 57 ohms. Load Resistance, 3500 ohms. Peak-to-Peak Volts Output, 140 approx.			6AG7		
6AH6	Sharp-Cutoff Pentode	B0	H	6.3	0.45	Class A Amplifier	300	Cath. Bias	150	2.5	10.0	500000	9000	Cath. Res., 160 ohms	—	6AH6	
6AK5	Sharp-Cutoff Pentode	A1	H	6.3	0.175	Class A Amplifier	120 180	Cath. Bias	120 120	2.5 2.4	7.5 7.7	340000 690000	5000 5100	Cath. Res., 200 ohms	—	6AK5	
6AK6	Power Amplifier Pentode	B0	H	6.3	0.15	Class A Amplifier	180	— 9.0	180	2.5	15	200000	2300	—	10000	1.1	6AK6
6AL5	Twin Diode	A1	H	6.3	0.3	Detector Rectifier	Max. Peak Inverse Volts, 330 Max. Peak Plate Ma. per Plate, 54 Max. D-C Output Ma. per Plate, 9 Max. Peak Heater-Cathode Volts, 330										6AL5
6AL7-GT	Electron-Ray Tube Indicator Type	C0a	H	6.3	0.15	Visual Indicator	Target Voltage, 315 volts Grid Voltage = 0 volts Cathode Bias Res., 3300 ohms approx. Grid Voltage for Pattern Cutoff, — 7 volts approx. Deflecting-Electrodes — No. 1, No. 2 and No. 3 Voltage = 0										6AL7-GT

Three vertical rules before or after type No. = Miniature type having either 7 or 9 pins.
Two vertical rules before or after type No. = Metal type.
One vertical rule before or after type No. = GT or other larger glass type.
Light Face = Discontinued type.
For key to tube dimensions and, legend for base and envelope connection diagrams, see page 23.
■ Grids #3 and #5 are screen. Grid No. 4 is signal-input grid.
† Power output is for two tubes at stated plate-to-plate load.

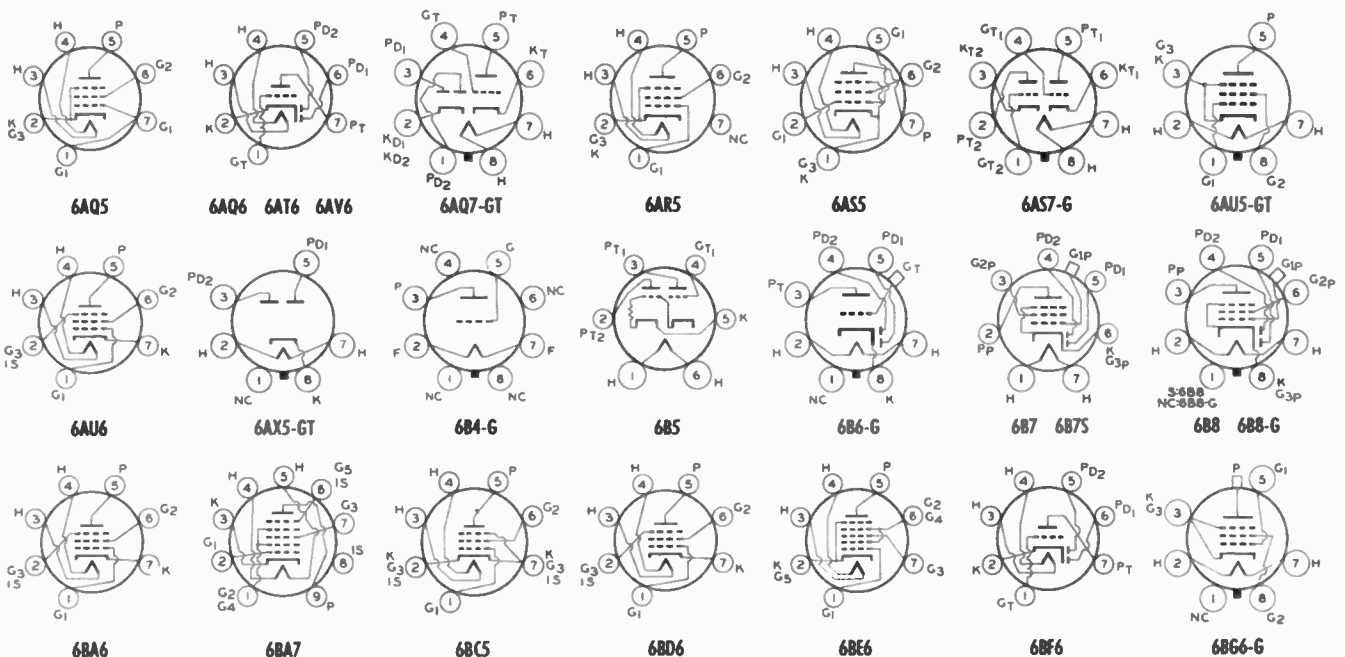
▲ Grids #2 and #4 are screen. Grid #3 is signal-input control grid.
Note 1: Subscript 1 on class of amplifier service (as AB₁) indicates that grid current does not flow during any part of input cycle.
□ Grid #2 tied to plate.
♦ For two tubes.
■ Supply voltage applied through 20000-ohm voltage-dropping resistor.
■ 50000 ohms.
■ Megohms.
AA Both grids connected together; likewise both cathodes.

** For grid of following tube.
■ Applied through plate resistor of 250000 ohms.
■ Either ac or dc may be used on filament or heater, except as specifically noted. For use of dc on ac filament types, decrease stated grid volts by 1/2 (approx.) of filament voltage.
♥ Applied through plate resistor of 100000 ohms.
• With tube mounted horizontally and pins No. 4 and No. 8 in a vertical plane (pin 4 on top), deflecting electrode No. 1 controls left-hand section of pattern, deflecting electrode No. 2 controls top right-hand section of pattern, deflecting electrode No. 3 controls bottom section of pattern.



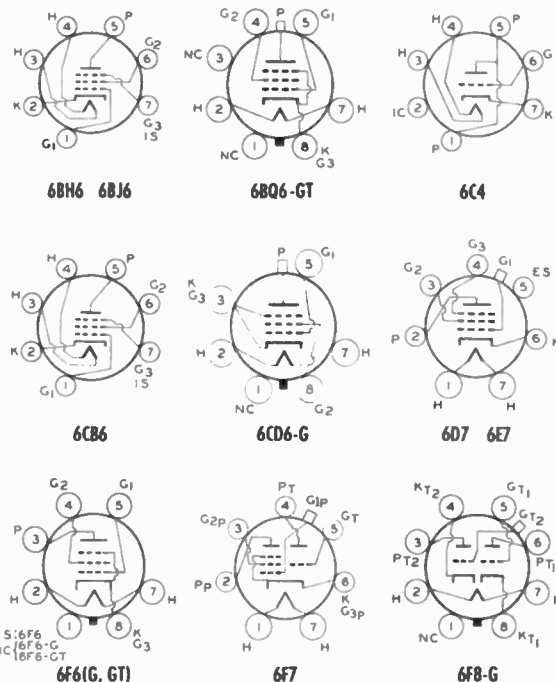
RCA Type	Name	Tube Di- men- sions	Cathode Type and Rating			Use Values to right give operating conditions and characteristics for indicated typical use	Plate Supply	Grid Bias	Screen Supply	Screen Current	Plate Current	AC Plate Resistance	Trans- conduc- tance (Grid-plate)	Amplifi- cation Factor	Load for Stated Power Output	Power Out- put Watts	RCA Type				
			C. T.	Volts	Amp.		Volts	Volts	Volts	Ma.	Ma.	Ohms	μmhos	Ohms	Watts						
6AQ5	Beam Power Amplifier	B1	H	6.3	0.45	Single Tube Class A Amplifier	180 250	- 8.5 -12.5	180 250	3.0 4.5	29.0 45.0	58000 52000	3700 4100	—	—	5500 5000	2.0 4.5	6AQ5			
6AQ6	Duplex-Diode High-Mu Triode	B0	H	6.3	0.15	Push-Pull Class AB ₁ Amplifier	250	-15.0	250	5.0	70.0	60000	—	—	10000	10.0	6AQ6				
6AQ7-GT	Twin-Diode High-Mu Triode	C2b	H	6.3	0.3	Triode Unit as Class A Amplifier	100 250	- 1.0 - 3.0	—	—	0.8 1.0	61000 58000	1150 1200	70 70	—	—	6AQ7-GT				
6AR5	Power Pentode	B1	H	6.3	0.4	Class A Amplifier	250 250	-16.5 -18	250 250	10 10	34.0 32.0	65000 68000	2400 2300	—	—	7000 7600	3.2 3.4	6AR5			
6AS5	Beam Power Amplifier	B1	H	6.3	0.8	Class A Amplifier	150	- 8.5	110	2.0	35	—	5600	—	—	4500	2.2	6AS5			
6AS7-G	Low-Mu Twin Power Triode	E2	H	6.3	2.5	DC Amplifier	135	—	Cath. Res., 250 ohms	125	—	280	7000	2.0	—	—	6AS7-G				
6AT6	Duplex-Diode High-Mu Triode	B0	H	6.3	0.3	Booster Tube for Television Scanning	Max. Peak Inverse Plate Volts, 1700 Max. Heater—Cathode Volts, ±300										Max. Peak Plate Current (Per Plate), 125 ma Max. Plate Dissipation (Per Plate), 13 watts			6AT6	
6AU5-GT	Beam Power Amplifier	C2b	H	6.3	1.25	Triode Unit as Class A Amplifier	100 250	- 1.0 - 3.0	—	—	0.8 1.0	54000 58000	1300 1200	70 70	—	—	6AU5-GT				
6AU6	RF Amplifier Pentode	B0	H	6.3	0.3	Horizontal Deflection Amplifier in TV Equipment	Max. DC Plate Volts, 450; Max. DC Plate Ma., 100										Max. Peak Positive-Pulse Plate Volts, 5000 Max. Plate Dissipation, 10 watts			6AU6	
6AV6	Twin-Diode High-Mu Triode	B0	H	6.3	0.3	Class A Amplifier	100 250	Cath. Bias —	100 150	2.1 4.3	5.0 10.6	500000 1.0	3900 5200	Cath. Bias Res., 150 ohms Cath. Bias Res., 68 ohms	—	—	6AV6				
6AX5-GT	Full-Wave Rectifier	C2b	H	6.3	1.2	Triode Unit as Class A Amplifier	100 250	- 1.0 - 2.0	—	—	0.5 1.2	80000 62500	1250 1600	100 100	—	—	6AX5-GT				
6B4-G	Power Amplifier Triode	E2	F	6.3	1.0	With Capacitive-Input Filter	Max. AC Volts per Plate (RMS), 450 Max. Peak Inverse Volts, 1250										Max. DC Output Ma., 150 Max. Peak Plate Ma., 375			Min. Total Effic. Supply Imped. per Plate, 105	6B4-G
6B5	Direct-Coupled Power Amplifier	D12	H	6.3	0.8	With Inductive-Input Filter	Max. AC Volts per Plate (RMS), 450 Max. Peak Inverse Volts, 1250										Max. OC Output Ma., 150 Max. Peak Plate Ma., 375			Min. Value of Input Choke, 10 henries	6B5
6B6-G	Duplex-Diode High-Mu Triode	D8	H	6.3	0.3	Class A Amplifier	250	-45.0	—	—	60.0	800	5250	4.2	2500	3.20	6B6-G				
6B7	Duplex-Diode Pentode	D8	H	6.3	0.3	Push-Pull Class AB ₁ Amplifier	325 325	Cath. Bias, 850 ohms -68 volts, fixed bias	80.0 80.0	—	—	—	—	—	—	5000 3000	10.01 15.01	6B7			
6B7S	Duplex-Diode Pentode	D8	H	6.3	0.3	Class A Amplifier	For other characteristics, refer to Type 6N6-G.										6B7S				
6B8	Duplex-Diode Pentode	C1	H	6.3	0.3	Triode Unit as Amplifier	For other characteristics, refer to Type 6SQ7.										6B8				
6B8-G	Duplex-Diode Pentode	D8	H	6.3	0.3	Pentode Unit as Amplifier	Input Triode: Plate Volts, 300 max; Grid Volts, 0; Plate Ma., 8; AF Signal Volts (Peak), 21 Output Triode: Plate Volts, 300 max.; Plate Ma., 45; Plate Res., 24000 ohms, Load Resistance, 7000 ohms; Power Output, 4 watts.										6B8-G				
6BA6	RF Amplifier Pentode	B0	H	6.3	0.3	Pentode Unit as RF Amplifier	100 250	- 3.0 - 3.0	100 125	1.7 2.3	5.8 9.0	300000 600000	950 1125	—	—	—	—	6BA6			
6BA7	Pentagrid Converter	B0a	H	6.3	0.3	Pentode Unit as AF Amplifier	90 μ Cath. Bias, 3500 ohms. Screen Resistor = 1.1 meg. Grid Resistor, ** Gain per stage = 55 300 μ Cath. Bias, 1600 ohms. Screen Resistor = 1.2 meg. 0.5 megohm. Gain per stage = 79										6BA7				
6BC5	Sharp-Cutoff Pentode	B0	H	6.3	0.3	Class A Amplifier	100 250	Cath. Bias —	100 100	4.4 4.2	10.8 11.0	250000 1.0	4300 4400	Cath. Bias Res., 68 ohms Cath. Bias Res., 68 ohms	—	—	6BC5				
6BD6	Remote-Cutoff Pentode	B0	H	6.3	0.3	Converter	100 250	- 1.0 - 1.0	100 100	10.2 10.0	3.6 3.8	500000 1.0	Grid-No. 1 Resistor, 20000 ohms Conversion Transcond., 950 micromhos	—	—	—	6BD6				
6BE6	Pentagrid Converter	B0	H	6.3	0.3	Class A Amplifier	250	Cath. Bias	150	2.1	7.5	800000	5700	Cath. Bias Res., 180 ohms	—	—	6BE6				
6BF6	Duplex-Diode Triode	B0	H	6.3	0.3	Class A Amplifier	100 250	- 1 - 3	100 100	5.0 3.0	13.0 9.0	150000 800000	2550 2000	—	—	—	—	6BF6			
6BG6-G	Beam Power Amplifier	F1	H	6.3	0.9	Converter	100 250	- 1.5 - 1.5	100 100	7.5 7.5	2.6 2.6	400000 1.0	Grid #1 Resistor, 20000 ohms Conversion Transcond., 475 micromhos	—	—	—	—	6BG6-G			
6BG6-G	Beam Power Amplifier	F1	H	6.3	0.9	Triode Unit as Class A Amplifier	For other characteristics, refer to Type 6SR7.										6BG6-G				
6BG6-G	Beam Power Amplifier	F1	H	6.3	0.9	Horizontal Deflection Amplifier in TV Equipment	Max. DC Plate Volts, 700 Max. DC Plate Ma., 100										Max. Peak Positive-Pulse Plate Volts, 6000 Max. Plate Dissipation, 20 watts			6BG6-G	

For footnotes, see preceding page.



Type	Name	Tube Dimensions	Cathode Type and Rating			Use Values to right give operating conditions and characteristics for indicated typical use	Plate Supply	Grid Bias	Screen Supply	Screen Current	Plate Current	AC Plate Resistance	Trans-conductance (Grid-plate)	Amplification Factor	Load for Stated Power Output	Power Output	Type		
			C. T.	Volts	Amp.		Volts	Volts	Volts	Ma.	Ma.	Ohms	μ mhos		Ohms	Watts			
6BH6	Sharp-Cutoff Pentode	B0	H	6.3	0.15	Class A Amplifier	100 250	- 1.0 - 1.0	100 150	1.4 2.9	3.6 7.4	700000 1.4 Ω	3400 4600	—	—	—	6BH6		
6BJ6	RF Amplifier Pentode	B0	H	6.3	0.15	Class A Amplifier	100 250	- 1.0 - 1.0	100 100	3.5 3.3	9.0 9.2	250000 1.3 Ω	3650 3800	—	—	—	6BJ6		
6BQ6-GT	Beam Power Amplifier	C11	H	6.3	1.2	Horizontal Deflection Amplifier in TV Equipment	Max. DC Plate Volts, 550 Max. DC Plate Ma., 100				Max. Peak Positive-Pulse Plate Volts, 4000 Max. Plate Dissipation, 10 watts				6BQ6-GT				
6C4	HF Power Triode	B0	H	6.3	0.15	Class A Amplifier	100 250	0 - 8.5	—	—	11.8 10.5	6250 7700	3100 2200	19.5 17	—	—	6C4		
						Class C Amplifier	300	- 27.0	—	—	25.0	Grid Current, 7 ma. Driving Power, 0.35 watt		—	5.5				
6C5	Medium-Mu Triodes	B2	H	6.3	0.3	Class A Amplifier	250	- 8.0	—	—	8.0	10000	2000	20	—	—	6C5		
6C5-GT		C3	H	6.3	0.3	Class A Amplifier	90 $\heartsuit$ 300 $\heartsuit$	Cath. Bias, 6400 ohms. Cath. Bias, 5300 ohms.	Grid Resistor, ** 0.25 megohm.				Gain per stage = 11 Gain per stage = 13				6C5-GT		
6C6	Sharp-Cutoff Pentode	D13	H	6.3	0.3	Amplifier Detector	For other characteristics, refer to Type 6J7.										6C6		
6CB6	Sharp-Cutoff Pentode	B0	H	6.3	0.3	Class A Amplifier	200	Cath. Bias	150	2.8	9.5	600000	6200	Cath. Bias Res., 180 ohms			6CB6		
6C7	Duplex-Diode Triode	D8	H	6.3	0.3	Triode Unit as Class A Amplifier	250	- 9.0	—	—	4.5	16000	1250	20	—	—	6C7		
6C8-G	Twin-Triode Amplifier	D8	H	6.3	0.3	Each Unit as Amplifier	250	- 4.5	—	—	3.2	22500	1600	36	—	—	6C8-G		
6CD6-G	Beam Power Amplifier	F1	H	6.3	2.5	Horizontal Deflection Amplifier in TV Equipment	Max. DC Plate Volts, 700 Max. DC Plate Ma., 170				Max. Peak Positive-Pulse Plate Volts, 6000 Max. Plate Dissipation, 15 watts				6CD6-G				
6D6	Remote-Cutoff Pentode	D13	H	6.3	0.3	Amplifier Mixer	For other characteristics, refer to Type 6U7-G.										6D6		
6D7	Sharp-Cutoff Pentode	D13	H	6.3	0.3	Amplifier Detector	For other characteristics, refer to Type 6J7.										6D7		
6D8-G	Pentagrid Converter	D8	H	6.3	0.15	Converter	135 250	- 3.0 - 3.0	67.5 100	1.7 2.6	1.5 3.5	600000 400000	Anode-Grid (≈ 2): 250 μ max. volts, 4.3 ma. Oscillator-Grid (≈ 1) Resistor $\approx$, Conversion Transcond., 550 micromhos.				6D8-G		
6E5	Electron-Ray Tube	D4	H	6.3	0.3	Visual Indicator	Plate & Target Supply = 125 volts. Triode Plate Resistor = 1.0 meg. Target Current = 0.8 ma. Grid Bias, - 4.0 volts; Shadow Angle, 0°. Bias, 0 volts; Angle, 90°. Plate Current, 0.1 ma. Plate & Target Supply = 250 volts. Triode Plate Resistor = 1.0 meg. Target Current = 2.0 ma. Grid Bias, - 7.5 volts; Shadow Angle, 0°. Bias, 0 volts; Angle, 90°. Plate Current, 0.2 ma.										6E5		
6E6	Twin-Triode Power Amplifier	D12	H	6.3	0.6	Push-Pull Class A Amplifier	180 250	- 20.0 - 27.5	—	—	Power Output is for one tube at stated plate-to-plate load.				15000 14000	0.75 1.60	6E6		
6E7	Remote-Cutoff Pentode	D13	H	6.3	0.3	Amplifier	For other characteristics, refer to Type 6U7-G.										6E7		
6F5	High-Mu Triode	C1	H	6.3	0.3	Amplifier	For other characteristics, refer to Type 6SF5.										6F5		
6F5-GT	High-Mu Triode	C2b	H	6.3	0.3	Amplifier	For other characteristics, refer to Type 6SF5.										6F5-GT		
6F6	Power Pentodes	C2	H	6.3	0.7	Pentode Class A Amplifier	250 285	- 16.5 - 20.0	250 285	6.5 7.0	34.0 38.0	80000 78000	2500 2550	—	7000 7000	3.2 4.8	6F6		
6F6-G		D10				Triode Class A Amplifier	250	- 20.0	—	—	31.0	2600	2600	6.8	4000	0.85			
6F6-GT		C10				Pentode Push-Pull Class A Amplifier	315 315	Cath. Bias - 24.0	285 285	12.0 $\heartsuit$ 12.0 $\heartsuit$	62.0 $\heartsuit$ 62.0 $\heartsuit$	Cath. Bias Resistor, 320 ohms $\heartsuit$		10000 10000	10.5 $\uparrow$ 11.0 $\uparrow$	6F6-GT			
						Pentode Push-Pull Class AB ₁ Amplifier	375 375	Cath. Bias - 26.0	250 250	8.0 $\heartsuit$ 5.0 $\heartsuit$	54.0 $\heartsuit$ 34.0 $\heartsuit$	Cath. Bias Resistor, 340 ohms $\heartsuit$		10000 10000	19.0 $\uparrow$ 18.5 $\uparrow$				
6F7	Triode-Pentode	D8	H	6.3	0.3	Triode Push-Pull Class AB ₁ Amplifier	350 350	Cath. Bias - 38.0	—	—	50.0 $\heartsuit$ 48.0 $\heartsuit$	Cath. Bias Resistor, 730 ohms $\heartsuit$		10000 6000	9.0 $\uparrow$ 13.0 $\uparrow$	6F7			
						Triode Unit as Class A Amplifier	100	- 3.0 min.	—	—	3.5	16000	500	8	—				
						Pentode Unit as Class A Amplifier	100 250	- 3.0 min.	100 100	1.6 1.5	6.3 6.3	290000 850000	1050 1100	—	—				
6F8-G	Twin-Triode Amplifier	D8	H	6.3	0.6	Each Unit as Amplifier	250	- 10.0	100	0.6	2.8	Oscillator Peak Volts = 7.0. Conversion Transcond. = 300 micromhos.				6F8-G			

For footnotes, see following page.



Type	Name	Tube Dimensions	Cathode Type and Rating			Use Values to right give operating conditions and characteristics for indicated typical use	Plate Supply Volts	Grid Bias Volts	Screen Supply Volts	Screen Current Ma.	Plate Current Ma.	AC Plate Resistance Ohms	Trans-conductance (Grid-plate) μ mhos	Amplification Factor	Load for Stated Power Output Ohms	Power Output Watts	Type
			C. T.	Volts	Amp.												
6G6-G	Power Amplifier Pentode	D3	H	6.3	0.15	Pentode Class A Amplifier	135 180	- 6.0 - 9.0	135 180	2.0 2.5	11.5 15.0	170000 175000	2100 2300	—	12000 10000	0.6 1.1	6G6-G
6H6 6H6-GT	Twin Diodes	A1a C3	H	6.3	0.3	Triode Class A Amplifier	180	-12.0	—	—	11.0	4750	2000	9.5	12000	0.25	6H6 6H6-GT
6J5 6J5-GT	Medium-Mu Triodes	B2 B3	H	6.3	0.3	Voltage Doubler	Max. A-C Supply Volts per Plate (RMS), 150 Total Effect. Plate-Supply Imped. per Plate: half-wave, 30 ohms; full-wave, 15 ohms.										6J5 6J5-GT
6J6	Medium-Mu Twin Triode	B0	H	6.3	0.45	Half-Wave Rectifier	Max. A-C Plate Volts (RMS), 150 Max. D-C Output Ma., 8 per Plate										6J6
6J7 6J7-G 6J7-GT	Sharp-Cutoff Pentodes	C1 D8 C3	H	6.3	0.3	Class A Amplifier	90 250	0 - 8.0	—	—	10.0 9.0	6700 7700	3000 2600	20 20	—	—	6J7 6J7-G 6J7-GT
6J8-G	Triode-Heptode Converter	D8	H	6.3	0.3	Each Unit as Class A Amplifier	100	—	Cathode Resistor, for both units, 50 ohms	8.5	7100	5300	38	—	—	—	6J8-G
6K5-GT	High-Mu Triode	C3	H	6.3	0.3	Push-Pull Class A Amplifier	150	-10.0	Cath. Res., 220 ohms, both units	30.0	Grid Current, 16 ma. Driving Power, 0.35 watt.	—	—	—	3.5	—	6K5-GT
6K6-GT	Power Amplifier Pentode	C3	H	6.3	0.4	Pentode Class A RF Amplifier	100 250	- 3.0 - 3.0	100 100	0.5 0.5	2.0 2.0	1.0 1.0 + $\frac{1}{2}$	1185 1225	—	—	—	6K6-GT
6K7 6K7-G 6K7-GT	Remote-Cutoff Pentodes	C1 D8 C3	H	6.3	0.3	Pentode Class A AF Amplifier	90	Cath. Bias, 2600 ohms. Screen Resistor = 1.2 meg.	100	—	Grid Resistor, ** Gain per stage = 85 0.5 megohm. Gain per stage = 140	—	—	—	—	—	6K7 6K7-G 6K7-GT
6K8 6K8-G 6K8-GT	Triode-Hexode Converters	C1 D8 C10	H	6.3	0.3	Triode Unit as Oscillator	250	- 4.3	100	Cathode Current 0.43 ma.	—	—	—	—	—	—	6K8 6K8-G 6K8-GT
6L5-G	Medium-Mu Triode	D3	H	6.3	0.15	Triode-Grid Resistor, 50000 ohms	100	- 3.0	100	3.0	1.4	900000	1500	17	—	—	6L5-G
6L6 6L6-G	Beam Power Amplifiers	D7 E2	H	6.3	0.9	Heptode Unit as Mixer	100	- 3.0	100	2.9	1.3	900000	1500	17	—	—	6L6 6L6-G
6L7 6L7-G	Pentagrid Mixers	C1 D8	H	6.3	0.3	Class A Amplifier	100	- 1.5	—	—	0.35	78000	1400	70	—	—	6L7 6L7-G
6N6-G	Direct-Coupled Power Triode	D10	H	6.3	0.8	Single-Tube Class A Amplifier	250	- 7.0	100	1.6	9.0	104000	1500	—	12000	0.35	6N6-G
6N7 6N7-GT	High-Mu Twin Power Triodes	C2 C3	H	6.3	0.8	Class A Amplifier	250	- 18.0	250	5.5	32.0	90000	2300	—	7600	3.40	6N7 6N7-GT

Three vertical rules before or after type No. = Miniature type having either 7 or 9 pins.
Two vertical rules before or after type No. = Metal type.

One vertical rule before or after type No. = GT or other larger glass type.
Light Face = Discontinued type.

For key to tube dimensions and, legend for base and envelope connection diagrams, see page 23.

Note 1: Subscript 1 on class of amplifier service (as AB₁) indicates that grid current does not flow during any part of input cycle.

† Power output is for two tubes at stated plate-to-plate load.

□ Grid #2 tied to plate.

◆ For two tubes.

▲ Supply voltage applied through 20000-ohm voltage-
Megohms.

§ For signal-input control-grid (#1); control-grid #3 bias, -3 volts.

✦ Grids #2 and #3 tied to plate.

° Both grids connected together; likewise, both plates.

Note 2: Subscript 2 on class of amplifier service (as AB₂) indicates that grid current flows during some part of input cycle.

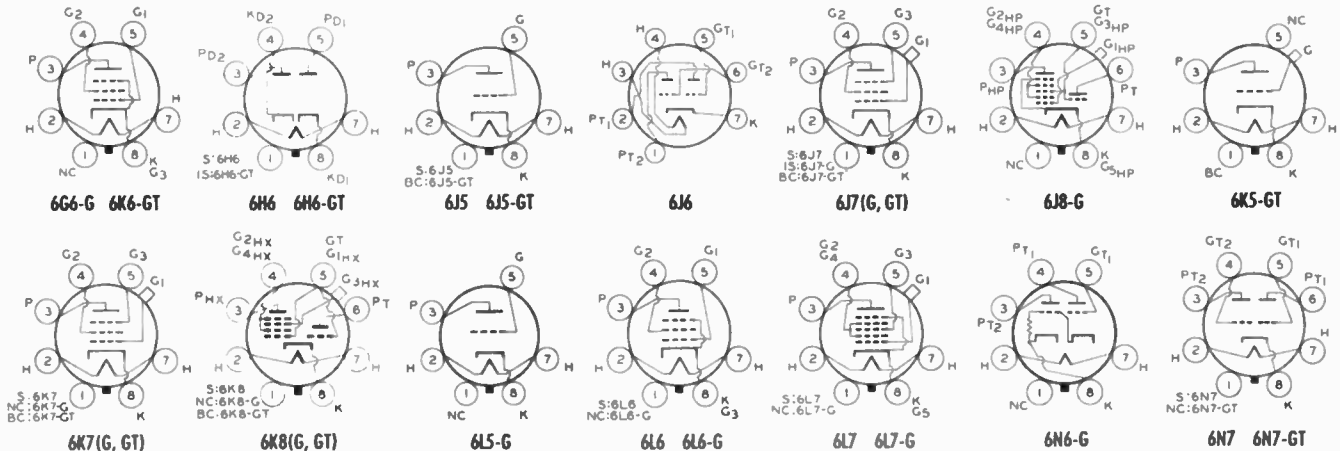
▲ Grids #2 and #4 are screen. Grid #1 is signal-input control grid.

** For grid of following tube.

■ Applied through plate resistor of 250000 ohms.

✦ Either ac or dc may be used on filament or heater, except as specifically noted. For use of dc on ac filament types, decrease stated grid volts by $\frac{1}{2}$ (approx.) of filament voltage.

♥ Applied through plate resistor of 100000 ohms.



6P5-GT to 6SQ7-GT

RCA RECEIVING TUBES

RCA Type	Name	Tube Dimensions	Cathode Type and Rating			Use Values to right give operating conditions and characteristics for indicated typical use	Plate Supply Volts	Grid Bias Volts	Screen Supply Volts	Screen Current Ma.	Plate Current Ma.	AC Plate Resistance Ohms	Trans-conductance (Grid-plate) μ mhos	Amplification Factor	Load for Stated Power Output Ohms	Power Output Watts	RCA Type
			C. T.	Volts	Amper.												
6P5-GT	Medium-Mu Triode	C3	H	6.3	0.3	Amplifier Detector											6P5-GT
6P7-G	Triode-Pentode	D8	H	6.3	0.3	Amplifier and Converter											6P7-G
6Q7 6Q7-G 6Q7-GT	Twin-Diode High-Mu Triodes	C1 D8 C3	H	6.3	0.3	Triode Unit as Class A Amplifier	100 250 90M 300M	- 1.0 - 3.0 Cath. Bias, 7600 ohms. Cath. Bias, 3000 ohms.			0.8 1.1	58000 58000	1200 1200	70 70		Gain per stage = 32 Gain per stage = 45	6Q7 6Q7-G 6Q7-GT
6R7 6R7-G 6R7-GT	Twin-Diode Medium-Mu Triodes	C1 D8 C2b	H	6.3	0.3	Triode Unit as Class A Amplifier	250 90M 300M	- 9.0 Cath. Bias, 4400 ohms. Cath. Bias, 3800 ohms.			9.5	8500	1900	16		Gain per stage = 10 Gain per stage = 10	6R7 6R7-G 6R7-GT
6S4	Medium-Mu Triode	B3	H	6.3	0.6	Vertical Deflection Amplifier in TV Equipment											6S4
6S7 6S7-G	Remote-Cutoff Pentodes	C1 D8	H	6.3	0.15	Class A Amplifier	135 250	- 3.0 - 3.0	67.5 100	0.9 2.0	3.7 8.5	1.0§ 1.0§	1250 1750				6S7 6S7-G
6S8-GT	Triple-Diode Triode	C9b	H	6.3	0.3	Triode Unit as Class A Amplifier	100 250	- 1.0 - 2.0			0.4 0.9	110000 91000	900 1100	100 100			6S8-GT
6SA7	Pentagrid Converter	B2	H	6.3	0.3	Mixer	100 250	Self-Excited	100 100	8.5 8.5	3.3 3.5	500000 1.0§	Grid #1 Resistor, 20000 ohms. Conversion Transcond., 450 micromhos.				6SA7
6SA7-GT	Pentagrid Converter	C3	H	6.3	0.3	Mixer											6SA7-GT
6SB7-Y	Pentagrid Converter	B2	H	6.3	0.3	Mixer	100 250	- 1.0 - 1.0	100 10.0	10.2 10.0	3.6 3.8	500000 1.0§	Grid #1 Resistor, 20000 ohms. Conversion Transcond., 950 micromhos.				6SB7-Y
6SC7	Twin-Triode Amplifier	B2	H	6.3	0.3	Each Unit as Amplifier	250	- 2.0			2.0	53000	1325	70			6SC7
6SF5 6SF5-GT	High-Mu Triodes	B2 C3	H	6.3	0.3	Class A Amplifier	100 250 90M 300M	- 1.0 - 2.0 Cath. Bias, 8800 ohms. Cath. Bias, 3200 ohms.			0.4 0.9	85000 66000	1150 1500	100 100		Gain per stage = 43 Gain per stage = 63	6SF5 6SF5-GT
6SF7	Diode-Remote-Cutoff Pentode	B2	H	6.3	0.3	Pentode Unit as Class A Amplifier	100 250	- 1.0 - 1.0	100 100	4.3 4.1	13.5 13.9	200000 700000	1975 2050				6SF7
6SG7	Remote-Cutoff Pentode	B2	H	6.3	0.3	Class A Amplifier	100 250 250	- 1.0 - 1.0 - 2.5	100 125 150	3.2 4.4 3.4	8.2 11.8 9.2	250000 900000 1.0 + §	4100 4700 4000				6SG7
6SH7	Sharp-Cutoff Pentode	B2	H	6.3	0.3	Class A Amplifier	100 250 250	- 1.0 - 1.0 - 1.0	100 150 150	2.1 4.1 4.1	5.3 10.8 9.0	350000 900000 900000	4000 4900 4900				6SH7
6SJ7 6SJ7-GT	Sharp-Cutoff Pentodes	B2 C3	H	6.3	0.3	Class A Amplifier	100 250 90M 300M	- 3.0 - 3.0 Cath. Bias, 1700 ohms. Cath. Bias, 860 ohms.	100 100 100	0.9 0.8	2.9 3.0	700000 1.0 + §	1575 1650			Gain per stage = 93 Gain per stage = 167	6SJ7 6SJ7-GT
6SK7 6SK7-GT	Remote-Cutoff Pentodes	B2 C3	H	6.3	0.3	Class A Amplifier	100 250	- 1.0 - 3.0	100 100	4.0 2.6	13.0 9.2	120000 800000	2350 2000				6SK7 6SK7-GT
6SL7-GT	Twin-Triode Amplifier	C3	H	6.3	0.3	Each Unit as Amplifier	250	- 2.0			2.3	44000	1600	70			6SL7-GT
6SN7-GT	Twin-Triode Amplifier	C3	H	6.3	0.6	Each Unit as Amplifier											6SN7-GT
6SQ7 6SQ7-GT	Twin-Diode High-Mu Triodes	B2 C3	H	6.3	0.3	Triode Unit as Class A Amplifier	100 250 90M 300M	- 1.0 - 2.0 Cath. Bias, 11000 ohms. Cath. Bias, 3900 ohms.			0.5 1.1	110000 85000	925 1175	100 100		Gain per stage = 40 Gain per stage = 53	6SQ7 6SQ7-GT

Three vertical rules before or after type No. = Miniature type having either 7 or 9 pins.
Two vertical rules before or after type No. = Metal type.
One vertical rule before or after type No. = GT or other larger glass type.
Light Face = Discontinued type.

For key to tube dimensions and, legend for base and envelope connection diagrams, see page 23.
† Power output is for two tubes at stated plate-to-plate load.

▲ Grids #2 and #4 are screen. Grid #3 is signal-input control grid.

Note 1: Subscript 1 on class of amplifier service (as AB1) indicates that grid current does not flow during any part of input cycle.

♦ For two tubes.

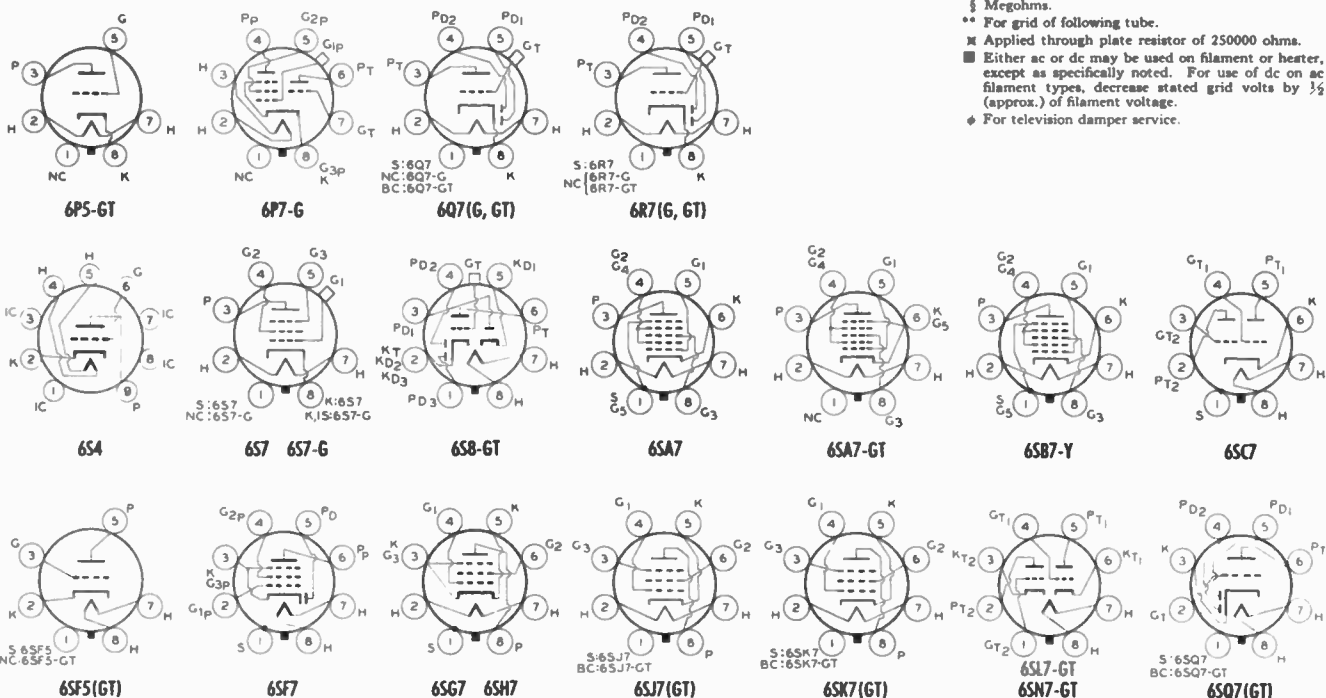
§ Megohms.

** For grid of following tube.

⌘ Applied through plate resistor of 250000 ohms.

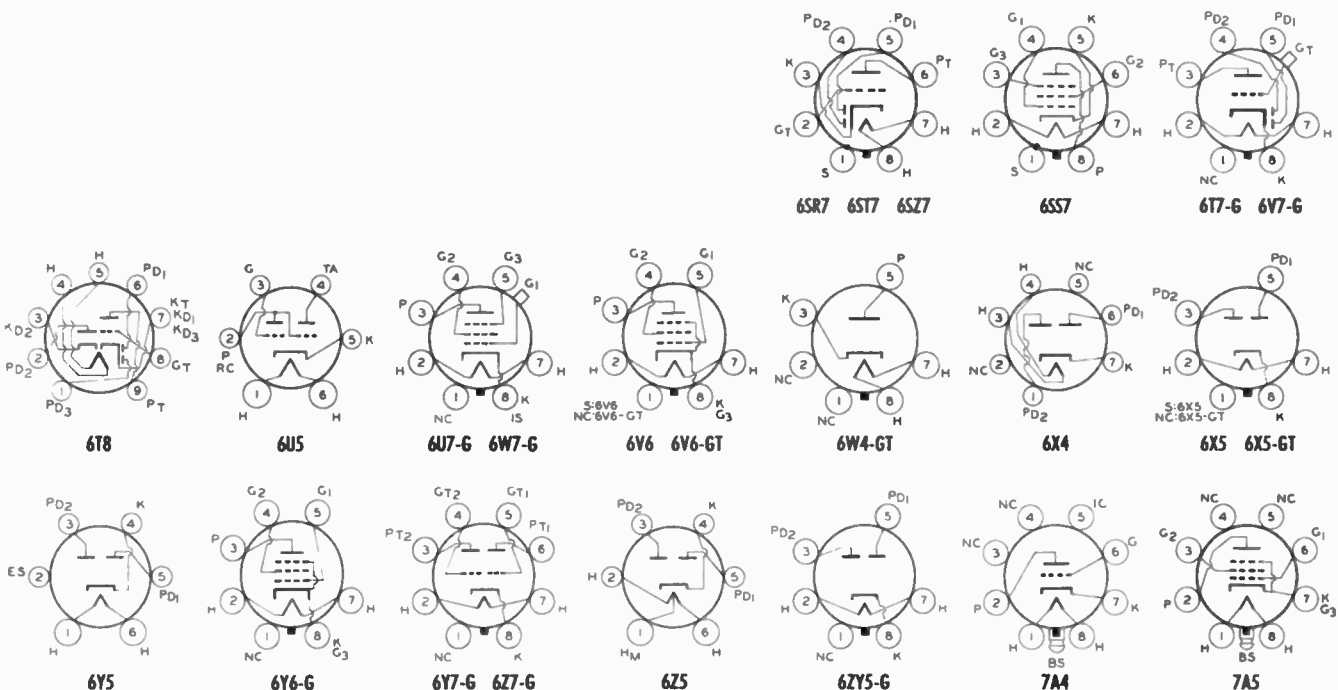
■ Either ac or dc may be used on filament or heater, except as specifically noted. For use of dc on ac filament types, decrease stated grid volts by 1/2 (approx.) of filament voltage.

♦ For television damper service.



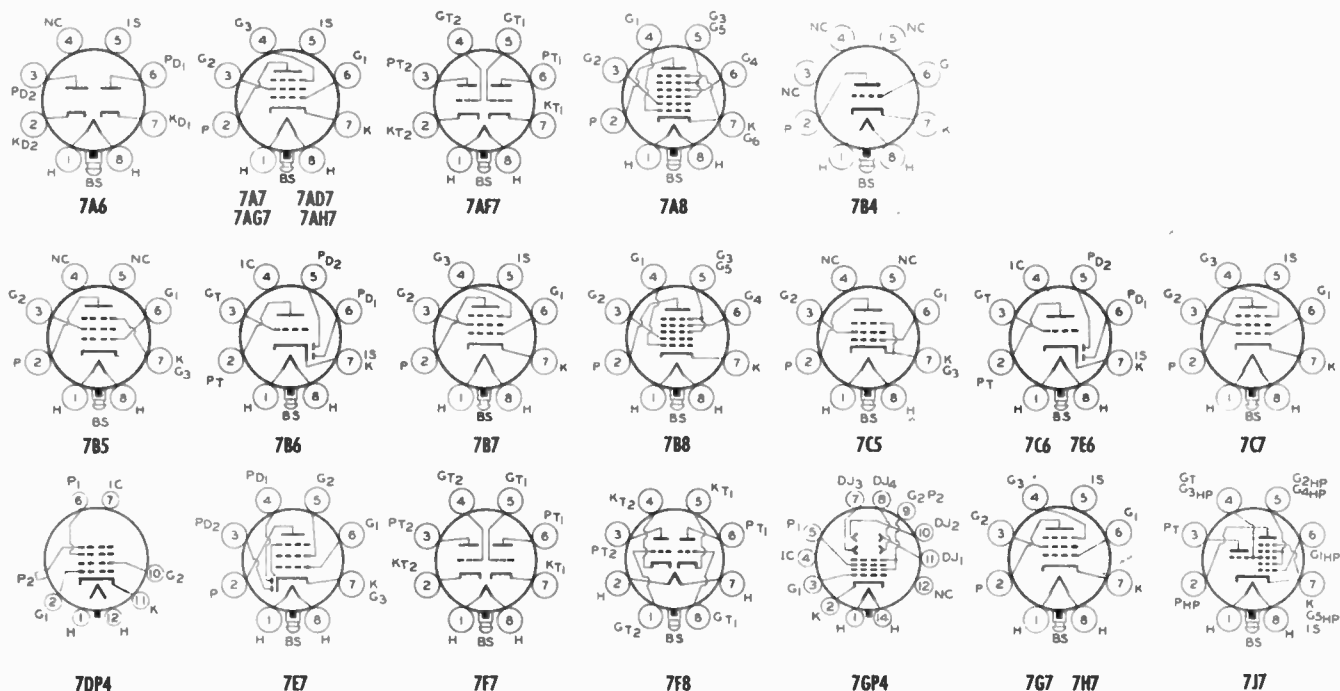
RCA Type	Name	Tube Di- men- sions	Cathode Type and Rating			Use Values to right give operating conditions and characteristics for indicated typical use	Plate Sup- ply Volts	Grid Bias ■ Volts	Screen Sup- ply Volts	Screen Cur- rent Ma.	Plate Cur- rent Ma.	AC Plate Resis- tance Ohms	Trans- conduc- tance (Grid-plate) μmhos	Amplifi- cation Factor	Load for Stated Power Output Ohms	Power Out- put Watts	RCA Type	
			C. T.	Volts	Amp.													
6SR7	Duplex-Diode Triode	B2	H	6.3	0.3	Triode Unit as Class A Amplifier	250	- 9.0	—	—	9.5	8500	1900	16	10000	0.3	6SR7	
6SS7	Remote-Cutoff Pentode	B2	H	6.3	0.15	Class A Amplifier	100 250	- 1.0 - 3.0	100 100	3.1 2.0	12.2 9.0	120000 1.0‡	1930 1850	—	—	—	6SS7	
6ST7	Duplex-Diode Triode	B2	H	6.3	0.15	Triode Unit as Amplifier	For other characteristics, refer to Type 6SR7.											6ST7
6SZ7	Duplex-Diode High-Mu Triode	B2	H	6.3	0.15	Triode Unit as Class A Amplifier	100 250 135 250	- 1.0 - 3.0 - 1.5 - 3.0	— — — —	— — — —	0.8 1.0 0.9 1.2	61000 58000 65000 62000	1150 1200 1000 1050	70 70 65 65	— — — —	— — — —	— — — —	6SZ7
6T7-G	Duplex-Diode High-Mu Triode	D8	H	6.3	0.15	Triode Unit as Class A Amplifier	90 M 300 M	Cath. Bias, 8300 ohms. Cath. Bias, 4580 ohms.	Grid Resistor, ** 0.5 megohm.			Gain per stage = 30 Gain per stage = 40			6T7-G			
6T8	Triple-Diode High-Mu Triode	80a	H	6.3	0.45	Triode Unit as Class A Amplifier	100 250	- 1 - 3	— —	— —	0.8 1.0	54000 58000	1300 1200	70 70	— —	— —	6T8	
6U5	Electron-Ray Tube	D4	H	6.3	0.3	Visual Indicator	Plate & Target Supply = 125 volts. Triode Plate Resistor = 0.5 meg. Target Current = 1.0 ma. Grid Bias, -8 volts; Shadow Angle, 0°. Bias, 0 volts; Angle, 90°: Plate Current, 0.19 ma. Plate & Target Supply = 250 volts. Triode Plate Resistor = 1.0 meg. Target Current = 4.0 ma. Grid Bias, -22 volts; Shadow Angle, 0°. Bias, 0 volts; Angle, 90°: Plate Current, 0.24 ma.											6U5
6U7-G	Remote-Cutoff Pentode	D12a	H	6.3	0.3	Class A Amplifier Mixer in Superheterodyne	100 250 100	- 3.0 - 3.0 -10.0	100 100 100	2.2 2.0 —	8.0 8.2 —	250000 800000 —	1500 1600 —	— — —	— — —	— — —	6U7-G	
6V6	Beam Power Amplifiers	C2	H	6.3	0.45	Single-Tube Class A Amplifier	180 250 315	- 8.5 -12.5 -13.0	180 250 225	3.0 4.5 2.2	29.0 45.0 34.0	58000 52000 77000	3700 4100 3750	— — —	5500 5000 8500	2.0 4.5 5.5	6V6	
6V6-GT	Beam Power Amplifiers	C3	H	6.3	0.45	Push-Pull Class AB ₁ Amplifier	250 285	-15.0 -19.0	250 285	5.0 4.0	70.0 70.0	— —	— —	— —	10000 8000	10.0‡ 14.0‡	6V6-GT	
6V7-G	Duplex-Diode Triode	D8	H	6.3	0.3	Triode Unit as Amplifier	For other characteristics, refer to Type 85.											6V7-G
6W4-GT	Half-Wave Rectifier	C2a	H	6.3	1.2	With Capacitive- Input Filter	Max. A-C Plate Volts (RMS), 350 Max. Peak Inverse Volts 3500 ⁺ , 1250			Max. D-C Output Ma., 100 Max. Peak Plate Ma., 600			Min. Total Effect. Supply Imped. per Plate, 145 ohms.					6W4-GT
6W7-G	Sharp-Cutoff Pentode	D8	H	6.3	0.15	Class A Amplifier	250	- 3.0	100	0.5	2.0	1.5‡	1225	—	—	—	6W7-G	
6X4	Full-Wave Rectifier	B3	H	6.3	0.6	With Capacitive- Input Filter	Max. A-C Volts per Plate (RMS), 325 Max. Peak Inverse Volts, 1250			Max. D-C Output Ma., 70 Max. Peak Plate Ma., 210			Min. Total Effect. Supply Imped. per Plate, 150 ohms					6X4
6X5	Full-Wave Rectifiers	C2	H	6.3	0.6	With Inductive- Input Filter	Max. A-C Volts per Plate (RMS), 450 Max. Peak Inverse Volts, 1250			Max. D-C Output Ma., 70 Max. Peak Plate Ma., 210			Min. Value of Input Choke, 8 henries					6X5
6X5-GT	Full-Wave Rectifiers	C3	H	6.3	0.6	With Capacitive- Input Filter	Max. A-C Volts per Plate (RMS), 325 Max. Peak Inverse Volts, 1250			Max. D-C Output Ma., 70 Max. Peak Plate Ma., 210			Min. Total Effect. Supply Imped. per Plate, 150 ohms					6X5
6Y5	Full-Wave Rectifier	D5	H	6.3	0.8	With Inductive- Input Filter	Max. A-C Volts per Plate (RMS), 450 Max. Peak Inverse Volts, 1250			Max. D-C Output Ma., 70 Max. Peak Plate Ma., 210			Min. Value of Input Choke, 8 henries					6X5-GT
6Y6-G	Beam Power Amplifier	D10	H	6.3	1.25	With Capacitive- Input Filter	Max. A-C Volts per Plate (RMS), 350 Max. D-C Output Ma., 50											6Y5
6Y6-G	Beam Power Amplifier	D10	H	6.3	1.25	Single-Tube Class A Amplifier	135 200	-13.5 -14.0	135 135	3.5 2.2	58.0 61.0	9300 18300	7000 7100	— —	2000 2600	3.6 6.0	6Y6-G	
6Y7-G	Twin-Triode Amplifier	D3	H	6.3	0.6	Class B Amplifier	For other characteristics, refer to Type 79.											6Y7-G
6Z5	Full-Wave Rectifier	D5	H	6.3 12.6	0.8 0.4	With Capacitive- Input Filter	Max. A-C Volts per Plate (RMS), 230 Max. D-C Output Ma., 60											6Z5
6Z7-G	Twin-Triode Amplifier	D3	H	6.3	0.3	Class B Amplifier	135 180	0	—	—	Power Output is for one tube at stated plate-to-plate load.			9000 12000	2.5 4.2	6Z7-G		
6ZY5-G	Full-Wave Rectifier	D3	H	6.3	0.3	With Capacitive- Input Filter	Max. A-C Volts per Plate (RMS), 325 Max. Peak Inverse Volts, 1250			Max. D-C Output Ma., 40 Max. Peak Plate Ma., 120			Min. Total Effect. Supply Imped. per Plate, 225 ohms					6ZY5-G
6ZY5-G	Full-Wave Rectifier	D3	H	6.3	0.3	With Inductive- Input Filter	Max. A-C Volts per Plate (RMS), 450 Max. Peak Inverse Volts, 1250			Max. D-C Output Ma., 40 Max. Peak Plate Ma., 120			Min. Value of Input Choke, 13.5 henries					6ZY5-G
7A4	Medium-Mu Triode	B5	H	6.3	0.3	Amplifier	For other characteristics, refer to Type 6J5.											7A4
7A5	Beam Power Amplifier	C2a	H	6.3	0.75	Class A Amplifier	110 125	- 7.5 - 9.0	110 125	3.0 3.3	40.0 44.0	16000 17000	5800 6000	—	2500 2700	1.5 2.2	7A5	

For footnotes, see preceding page.



Type	Name	Tube Dimensions	Cathode Type and Rating			Use Values to right give operating conditions and characteristics for indicated typical use	Plate Supply Volts	Grid Bias Volts	Screen Supply Volts	Screen Current Ma.	Plate Current Ma.	AC Plate Resistance Ohms	Transconductance (Grid-plate) μ mbos	Amplification Factor	Load for Stated Power Output Ohms	Power Output Watts	Type	
			C. T.	Volts	Amp.													
7A6	Twin Diode	B5	H	6.3	0.15	Detector Rectifier	Maximum A-C Voltage per Plate 150 Volts, RMS Maximum D-C Output Current per plate 8 Milliamperes										7A6	
7A7	Remote-Cutoff Pentode	B5	H	6.3	0.3	Class A Amplifier	For other characteristics, refer to Type 6SK7.										7A7	
7AD7	Power Pentode	C2a	H	6.3	0.6	Class A Amplifier	300	Cath. Bias -10	150	7.0	28.0	300000	9500	Cath. Res., 68 ohms			7AD7	
7AF7	Medium-Mu Twin Triode	B5	H	6.3	0.3	Each Unit as Class A Amplifier	250	Cath. Bias -10	—	—	9.0	7600	2100	16	Cath. Res., 1100 ohms		7AF7	
7AG7	Sharp-Cutoff Pentode	B5	H	6.3	0.15	Class A Amplifier	250	Cath. Bias	250	2.0	6.0	1 meg.	4200	Cathode-Bias Resistor, 250 ohms			7AG7	
7AH7	Sharp-Cutoff Pentode	B5	H	6.3	0.15	Class A Amplifier	250	Cath. Bias	250	1.9	6.8	1 meg.	3300	Cath. Res., 250 ohms			7AH7	
7A8	Octode Converter	B5	H	6.3	0.15	Converter	100 250	-3.0 -3.0	75 100	2.7 3.2	1.8 3.0	650000 700000	Anode-Grid (#2): 250 μ max. volts, 4.2 ma. Oscillator-Grid (#1) Resistor = Conversion Transcond., 550 micromhos.				7A8	
7B4	High-Mu Triode	B5	H	6.3	0.3	Amplifier	For other characteristics, refer to Type 6SF5.										7B4	
7B5	Power Amplifier Pentode	C2a	H	6.3	0.4	Class A Amplifier	For other characteristics, refer to Type 6K6-GT.										7B5	
7B6	Duplex-Diode High-Mu Triode	B5	H	6.3	0.3	Triode Unit as Amplifier	For other characteristics, refer to Type 6SQ7.										7B6	
7B7	Remote-Cutoff Pentode	B5	H	6.3	0.15	Class A Amplifier	250	-3.0	100	1.7	8.5	750000	1750	—	—	—	7B7	
7B8	Pentagrid Converter	B5	H	6.3	0.3	Converter	For other characteristics, refer to Type 6A8.										7B8	
7C5	Beam Power Amplifier	C2a	H	6.3	0.45	Class A Amplifier	For other characteristics, refer to Type 6V6-GT.										7C5	
7C6	Duplex-Diode High-Mu Triode	B5	H	6.3	0.15	Triode Unit as Class A Amplifier	250	-1.0	—	—	1.3	100000	1000	100	—	—	7C6	
7C7	Sharp-Cutoff Pentode	B5	H	6.3	0.15	Class A Amplifier	100 250	-3.0 -3.0	100 100	0.4 0.5	1.8 2.0	1.2 2.0	1225 1300	—	—	—	7C7	
7DP4	Directly Viewed Kinescope	11	H	6.3	0.6	Picture Reproduction	Focus: Electrostatic Deflection: Magnetic Deflection Angle: 50° Phosphor: No. 4 Size of Picture with Rounded Ends: 4 3/4" x 6 3/4"			Requires External Double-Field Ion-Trap Magnet			Anode-No. 2 Volts 8000 (max.) Anode-No. 1 Volts for Focus, 1216 to 1644 (2400 max.) Grid-No. 2 Volts, 250 (410 max.) Grid-No. 1 Volts for Visual Cutoff, -27 to -63				7DP4	
7E6	Duplex-Diode Triode	B5	H	6.3	0.3	Triode Unit as Amplifier	For other characteristics, refer to Type 6R7.										7E6	
7E7	Duplex-Diode Pentode	B5	H	6.3	0.3	Pentode Unit as Class A Amplifier	100 250	-1.0 -3.0	100 100	2.7 1.6	10.0 7.5	150000 700000	1600 1300	—	—	—	7E7	
7F7	Twin-Triode Amplifier	B5	H	6.3	0.3	Each Unit as Amplifier	For other characteristics, refer to Type 6SL7-GT.										7F7	
7F8	Twin-Triode Amplifier	B5	H	6.3	0.3	Each Unit as Class A Amplifier	250	Cathode-Bias Res., 500 ohms			6.0	—	3300	48	—	—	7F8	
7G7	Sharp-Cutoff Pentode	B5	H	6.3	0.45	Class A Amplifier	250	-2.0	100	2.0	6.0	800000	4500	—	—	—	7G7	
7GP4	Directly Viewed Kinescope	K	H	6.3	0.6	Picture Reproduction	Anode-No. 2 and Grid-No. 2 Volts, 4000 (max.) Anode-No. 1 Volts for Focus, 1080 to 1600 Grid-No. 1 Volts for Visual Cutoff, 48 to 112			For other characteristics, refer to Type 7JP4.								7GP4
7H7	Sharp-Cutoff Pentode	B5	H	6.3	0.3	Class A Amplifier	100 250	-1.0 -2.5	100 150	2.6 3.2	7.5 10.0	350000 800000	4000 4000	—	—	—	7H7	
7J7	Triode-Heptode Converter	B5	H	6.3	0.3	Triode Unit as Oscillator Heptode Unit as Mixer	100 250	Triode-Grid Resistor, 50000 ohms			3.2 5.0	Triode-Grid & Heptode-Grid Current, 0.3 ma. Triode-Grid & Heptode-Grid Current, 0.4 ma. Conversion Transcond., 280 micromhos. Conversion Transcond., 290 micromhos.					7J7	

For footnotes, see following page.



RCA Type	Name	Tube Dimensions	Cathode Type and Rating			Use Values to right give operating conditions and characteristics for indicated typical use	Plate Supply Volts	Grid Bias Volts	Screen Supply Volts	Screen Current Ma.	Plate Current Ma.	AC Plate Resistance Ohms	Transconductance (Grid-plate) μmhos	Amplification Factor	Load for Stated Power Output Ohms	Power Output Watts	RCA Type	
			C. T.	Volts	Amp.													
7JP4	Directly Viewed Kinescope	J	H	6.3	0.6	Picture Reproduction	Focus: Electrostatic Deflection: Electrostatic Phosphor: No. 4 Size of Picture with Rounded Ends: 4 1/8" x 6 1/2"										7JP4	
7K7	Twin-Diode-High-Mu Triode	B5	H	6.3	0.3	Triode Unit as Class A Amplifier	250	— 2	—	—	2.3	44000	1600	70	—	—	7K7	
7L7	RF Amplifier Pentode	B5	H	6.3	0.3	Class A Amplifier	100 250	— 1.0 — 1.5	100 100	2.4 1.5	5.5 4.5	100000 1.0½	3000 3100	—	—	—	7L7	
7N7	Twin-Triode Amplifier	C2a	H	6.3	0.6	Each Unit as Class A Amplifier	For other characteristics, refer to Type 6SN7-GT											7N7
7Q7	Pentagrid Converter	B5	H	6.3	0.3	Converter	100 250	— 2.0 — 2.0	100 100	8.5 8.5	3.3 3.5	500000 1.0½	Grid #1 Resistor, 20000 ohms. Conversion Transcond., 550 micromhos.	—	—	—	7Q7	
7R7	Duplex-Diode Pentode	B5	H	6.3	0.3	Pentode Unit as Class A Amplifier	100 250	— 1.0 — 1.0	100 100	2.2 2.1	5.5 5.7	350000 1.0½	3000 3200	—	—	—	7R7	
7S7	Triode-Heptode Converter	B5	H	6.3	0.3	Triode Unit as Oscillator Heptode Unit as Mixer	100 250	— 2.0 — 2.0	100 100	3.0 3.0	3.0 1.8	500000 1.25½	Triode-Grid and Heptode-Grid Current, 0.3 ma. Triode-Grid & Heptode-Grid Current, 0.4 ma. Conversion Transcond., 500 micromhos. Conversion Transcond., 525 micromhos.	—	—	—	7S7	
7V7	RF Amplifier Pentode	B5	H	6.3	0.45	Class A Amplifier	300	—	150	3.9	10.0	300000	5800	Cath. Bias Res., 160 ohms	—	—	7V7	
7W7	Rf Amplifier Pentode	B5	H	6.3	0.45	Class A Amplifier	For other characteristics, refer to Type 7V7.											7W7
7X7	Twin Diode-High-Mu Triode	C2a	H	6.3	0.3	Triode Unit as Class A Amplifier	100 250	— 0 — 1.0	—	—	1.2 1.9	85000 67000	1000 1500	85 100	—	—	7X7	
7Y4	Full-Wave Rectifier	B5	H	6.3	0.5	With Capacitive-Input Filter	Max. A-C Volts per Plate (RMS), 325 Max. Peak Inverse Volts, 1250		Max. D-C Output Ma., 70 Max. Peak Plate Ma., 180		Min. Total Effect. Supply Imped. per Plate, 150 ohms.						7Y4	
7Z4	Full-Wave Rectifier	C2a	H	6.3	0.9	With Inductive-Input Filter	Max. A-C Volts per Plate (RMS), 450 Max. Peak Inverse Volts, 1250		Max. D-C Output Ma., 70 Max. Peak Plate Ma., 180		Min. Value of Input Choke, 10 henries						7Z4	
						With Capacitive-Input Filter	Max. A-C Volts per Plate (RMS), 325 Max. Peak Inverse Volts, 1250		Max. D-C Output Ma., 100 Max. Peak Plate Ma., 300		Min. Total Effect. Supply Imped. per Plate, 75 ohms							
9AP4	Directly Viewed Kinescope	O	H	2.5	2.1	Picture Reproduction	Focus: Electrostatic Deflection: Magnetic Phosphor: No. 4 Picture Size: 5 3/8" x 7 3/4"										9AP4	
							Anode-No. 2 Volts, 7000 (max.) Anode-No. 1 Volts for Focus, 1192 to 1788 (2000 max.) Grid-No. 2 Volts, 250 (300 max.)											
10B	Power Amplifier Triode	E3	F	7.5	1.25	Class A Amplifier	350 425	— 32.0 — 40.0	—	—	16.0 18.0	5150 5000	1550 1600	8.0 8.0	11000 10200	0.9 1.6	10B	
10BP4	Directly Viewed Kinescope	This type has clear glass face plate, but in other respects is same as 10BP4-A.															10BP4	
10BP4-A	Directly Viewed Kinescope With "Filterglass" Face Plate	M	H	6.3	0.3	Picture Reproduction	Focus: Magnetic Deflection: Deflection Angle: 57° Phosphor: No. 4 Size of Picture with Rounded Ends: 6 1/8" x 9 1/4"										10BP4-A	
11 12	Detector* Amplifier Triode	D2a D6a	D.C. F	1.1	0.25	Class A Amplifier	90 135	— 4.5 — 10.5	—	—	2.5 3.0	15500 15000	425 440	6.6 6.6	—	—	11 12	
12A5	Power Amplifier Pentode	D6	H	6.3 12.6	0.6 0.3	Class A Amplifier	100 180	— 15.0 — 25.0	100 180	3.0 8.0	17.0 45.0	50000 35000	1700 2400	—	4500 3300	0.8 3.4	12A5	

Three vertical rules before or after type No. = Miniature type having either 7 or 9 pins.

Two vertical rules before or after type No. = Metal type.

One vertical rule before or after type No. = GT or other larger glass type.

Light Face = Discontinued type.

For key to tube dimensions and, legend for base and envelope connection diagrams, see page 23.

★ For Grid-leak Detection—plate volts 45, grid return to + filament or to cathode.

■ Grids #3 and #5 are screen. Grid No. 4 is signal-input grid.

▲ Grids #2 and #4 are screen. Grid #3 is signal-input control grid.

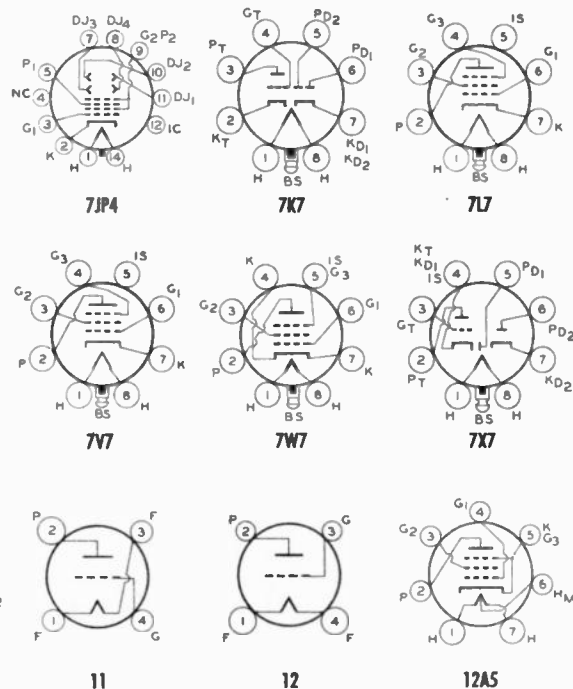
■ Supply voltage applied through 20000-ohm voltage-dropping resistor.

■ 50000 ohms.

§ Megohms.

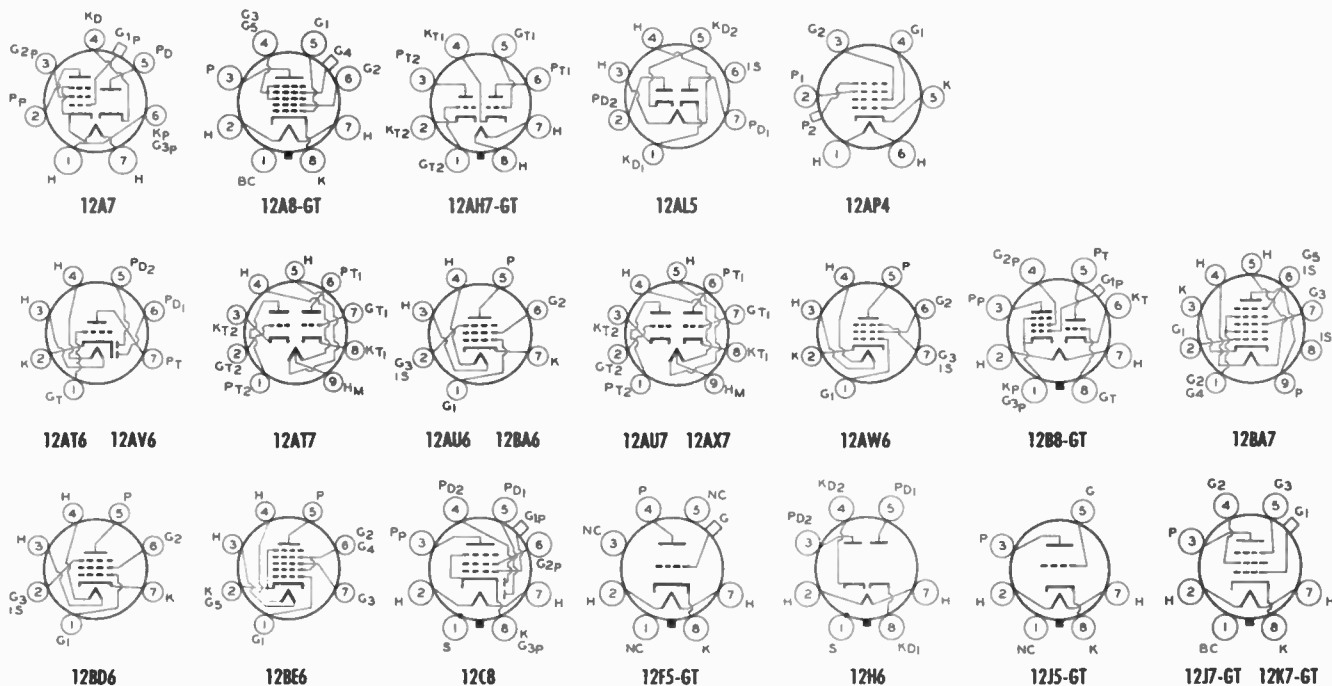
■ Either ac or dc may be used on filament or heater, except as specifically noted. For use of dc on ac filament types, decrease stated grid volts by $\frac{1}{2}$ (approx.) of filament voltage.

■ Superseded by 10-Y. See Power and Gas Tubes Booklet PG-101A.



Type	Name	Tube Dimensions	Cathode Type and Rating			Use Values to right give operating conditions and characteristics for indicated typical use	Plate Supply Volts	Grid Bias Volts	Screen Supply Volts	Screen Current Ma.	Plate Current Ma.	AC Plate Resistance Ohms	Trans-conductance (Grid-plate) μ mhos	Amplification Factor	Load for Stated Power Output Ohms	Power Output Watts	Type
			C. T.	Volts	Amp.												
12A7	Rectifier-Pentode	D9	H	12.6	0.3	Pentode Unit as Class A Amplifier Half-Wave Rectifier	135	-13.5	135	2.5	9.0	102000	975	—	13500	0.55	12A7
12A8-GT	Pentagrid Converter	C3	H	12.6	0.15	Converter	Maximum A-C Plate Voltage: 125 Volts, RMS Maximum D-C Output Current: 30 Milliamperes										
12AH7-GT	Twin Triode	C0a	H	12.6	0.15	Each Unit as Class A Amplifier	100 180	-3.6 -6.5	—	—	3.7 7.6	10300 8400	1550 1900	16 16	—	—	12AH7-GT
12AL5	Twin-Diode	A1	H	12.6	0.15	Detector Rectifier	For other characteristics, refer to Type 6AL5.										12AL5
12AP4	Directly Viewed Kinescope	Q	H	2.5	2.1	Picture Reproduction	Focus: Electrostatic Deflection: Magnetic Phosphor: No. 4 Picture Size: $7\frac{3}{8}'' \times 9\frac{3}{4}''$ Anode-No. 2 Volts, 7000 (max.) Anode-No. 1 Volts for Focus, 1192 to 1788 (2000 max.) Grid-No. 2 Volts 250 (300 max.) Grid-No. 1 Volts for Visual Cutoff, -20 to -60 Grid-No. 1 Signal Voltage, (Peak-to-Peak) value, 30 volts approx.										12AP4
12AT6	Duplex-Diode High-Mu Triode	B0	H	12.6	0.15	Triode Unit as Class A Amplifier	For other characteristics, refer to Type 6AT6.										12AT6
12AT7	High-Mu Twin Triode	B0a	H	12.6	0.15	Each Unit as Class A Amplifier	100 250	—	—	—	3.7 10.0	15000 10900	4000 5500	60 60	—	—	12AT7
12AU6	RF Amplifier Pentode	B0	H	12.6	0.15	Class A Amplifier	For other characteristics, refer to Type 6AU6.										12AU6
12AU7	Twin-Triode Amplifier	B0a	H	12.6	0.15	Each Unit as Class A Amplifier	100 250	0 -8.5	—	—	11.8 10.5	6500 7700	3100 2200	20 17	—	—	12AU7
12AV6	Twin-Diode High-Mu Triode	B0	H	12.6	0.15	Triode Unit as Class A Amplifier	For other characteristics, refer to Type 6AV6.										12AV6
12AW6	RF Amplifier Pentode	B0	H	12.6	0.15	As Pentode Class A Amplifier As Triode Class A Amplifier	For other characteristics, refer to Type 6AG5.										12AW6
12AX7	High-Mu Twin Triode	B0a	H	12.6	0.15	Each Unit as Class A Amplifier	100 250	-1.0 -2.0	—	—	0.5 1.2	80000 62500	1250 1600	100 100	—	—	12AX7
12B8-GT	Triode-Pentode	C10a	H	12.6	0.3	Triode Unit as Class A Amplifier Pentode Unit as Class A Amplifier	90 90	0 -3.0	—	—	2.8 2.0	37000 200000	2400 1800	90 —	—	—	12B8-GT
12BA6	RF Amplifier Pentode	B0	H	12.6	0.15	Class A Amplifier	For other characteristics, refer to Type 6BA6.										12BA6
12BA7	Pentagrid Converter	B0a	H	12.6	0.15	Converter	For other characteristics, refer to Type 6BA7.										12BA7
12BD6	Remote-Cutoff Pentode	B0	H	12.6	0.15	Class A Amplifier	For other characteristics, refer to Type 6BD6.										12BD6
12BE6	Pentagrid Converter	B0	H	12.6	0.15	Converter	For other characteristics, refer to Type 6BE6.										12BE6
12C8	Duplex-Diode Pentode	C1	H	12.6	0.15	Pentode Unit as RF Amplifier Pentode Unit as AF Amplifier	250	-3.0	125	2.3	10.0	600000	1325	—	—	—	12C8
12F5-GT	High-Mu Triode	C2b	H	12.6	0.15	Amplifier	90 μ Cath. Bias, 3500 ohms. Screen Resistor = 1.1 meg. Grid Resistor, ** Gain per stage = 55 300 μ Cath. Bias, 1600 ohms. Screen Resistor = 1.2 meg. 0.5 megohm. Gain per stage = 79										12F5-GT
12H6	Twin-Diode	A1a	H	12.6	0.15	Detector Rectifier	For other ratings, refer to Type 6H6.										12H6
12J5-GT	Medium-Mu Triode	C3	H	12.6	0.15	Amplifier	For other characteristics, refer to Type 6J5.										12J5-GT
12J7-GT	Sharp-Cutoff Pentode	C3	H	12.6	0.15	Amplifier	For other characteristics, refer to Type 6J7.										12J7-GT
12K7-GT	Remote-Cutoff Pentode	C3	H	12.6	0.15	Amplifier	For other characteristics, refer to Type 6K7.										12K7-GT

For footnotes, see following page.



RCA Type	Name	Tube Dimensions	Cathode Type and Rating			Use Values to right give operating conditions and characteristics for indicated typical use	Plate Supply Volts	Grid Bias Volts	Screen Supply Volts	Screen Current Ma.	Plate Current Ma.	AC Plate Resistance Ohms	Trans-conductance (Grid-plate) μmhos	Amplification Factor	Load for Stated Power Output Ohms	Power Output Watts	RCA Type
			C. T.	Volts	Amp.												
12K8	Triode-Hexode Converter	C1	H	12.6	0.15	Oscillator Mixer											12K8
12LP4	Directly Viewed Kinescope		This type has clear glass face plate, but in other respects is same as 12LP4-A														12LP4
12LP4-A	Directly Viewed Kinescope With "Filterglass" Face Plate	H	H	6.3	0.6	Picture Reproduction											12LP4-A
12Q7-GT	Duplex-Diode High-Mu Triode	C3	H	12.6	0.15	Triode Unit as Amplifier											12Q7-GT
12SA7	Pentagrid Converter	B2	H	12.6	0.15	Mixer											12SA7
12SA7-GT	Pentagrid Converter	C3	H	12.6	0.15	Mixer											12SA7-GT
12SC7	Twin-Triode Amplifier	B2	H	12.6	0.15	Each Unit as Class A Amplifier											12SC7
12SF5	High-Mu Triode	B2	H	12.6	0.15	Class A Amplifier											12SF5
12SF5-GT	High-Mu Triode	C3	H	12.6	0.15	Class A Amplifier											12SF5-GT
12SF7	Diode-Remote-Cutoff Pentode	B2	H	12.6	0.15	Pentode Unit as Amplifier											12SF7
12SG7	Semi-Remote-Cutoff Pentode	B2	H	12.6	0.15	Class A Amplifier											12SG7
12SH7	Sharp-Cutoff Pentode	B2	H	12.6	0.15	Class A Amplifier											12SH7
12SJ7	Sharp-Cutoff Pentodes	B2	H	12.6	0.15	Class A Amplifier											12SJ7
12SJ7-GT	Sharp-Cutoff Pentodes	C3	H	12.6	0.15	Class A Amplifier											12SJ7-GT
12SK7	Remote-Cutoff Pentodes	B2	H	12.6	0.15	Class A Amplifier											12SK7
12SK7-GT	Remote-Cutoff Pentodes	C3	H	12.6	0.15	Class A Amplifier											12SK7-GT
12SL7-GT	Twin-Triode Amplifier	C3	H	12.6	0.15	Each Unit as Amplifier											12SL7-GT
12SN7-GT	Twin-Triode Amplifier	C3	H	12.6	0.3	Each Unit as Amplifier											12SN7-GT
12SQ7	Duplex-Diode High-Mu Triode	B2	H	12.6	0.15	Triode Unit as Amplifier											12SQ7
12SQ7-GT	Duplex-Diode High-Mu Triode	C3	H	12.6	0.15	Triode Unit as Amplifier											12SQ7-GT
12SR7	Duplex-Diode Triode	B2	H	12.6	0.15	Triode Unit as Amplifier											12SR7
12SR7-GT	Duplex-Diode Triode	C3	H	12.6	0.15	Triode Unit as Amplifier											12SR7-GT
12S8-GT	Triple-Diode-High-Mu Triode	C6a	H	12.6	0.15	Triode Unit as Class A Amplifier With Capacitive-Input Filter	100 250	-1 -2	—	—	0.4 0.9	110000 91000	900 1100	100 100	—	—	12S8-GT
12Z3	Half-Wave Rectifier	D5	H	12.6	0.3	Input Filter	Max. A-C Plate Volts (RMS), 235 Max. D-C Output Ma., 55 Min. Total Effective Plate-Supply Impedance: Up to 117 volts, 0 ohms; at 150 volts, 30 ohms; at 235 volts, 75 ohms.										12Z3
14A4	Medium-Mu Triode	B5	H	12.6	0.15	Class A Amplifier											14A4
14A5	Beam Power Amplifier	B5	H	12.6	0.15	Class A Amplifier	250	-12.5	250	3.5	30	70000	3000	—	7500	2.8	14A5
14A7	Remote-Cutoff Pentode	B5	H	12.6	0.15	Class A Amplifier	100 250	-1.0 -3.0	100 100	4.0 2.6	13.0 9.2	120000 800000	2350 2000	—	—	—	14A7

Three vertical rules before or after type No. = Miniature type having either 7 or 9 pins.

Two vertical rules before or after type No. = Metal type.

One vertical rule before or after type No. = GT or other larger glass type.

Light Face = Discontinued type.

For key to tube dimensions and, legend for base and envelope connection diagrams, see page 23.

Grids #3 and #5 are screen. Grid No. 4 is signal-input grid.

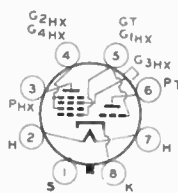
Grid #2 tied to plate.

Grids #2 and #4 are screen. Grid #3 is signal-input control grid.

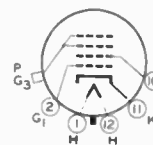
** For grid of following tube.

Applied through plate resistor of 250000 ohms.

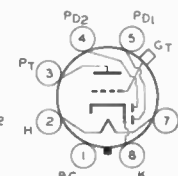
Either ac or dc may be used on filament or heater, except as specifically noted. For use of dc on ac filament types, decrease stated grid volts by 1/2 (approx.) of filament voltage.



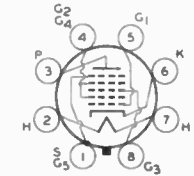
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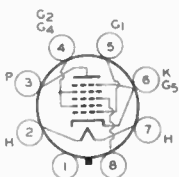
12LP4 12LP4-A



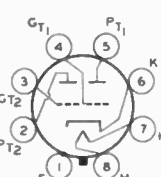
12Q7-GT



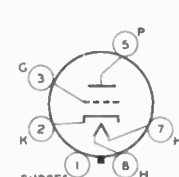
12SA7



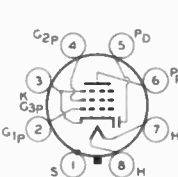
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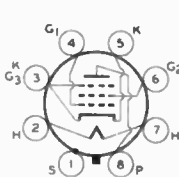
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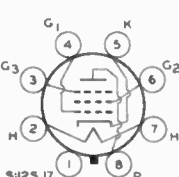
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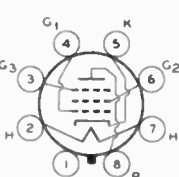
12SF7



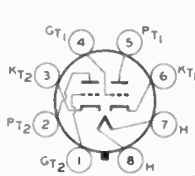
12SG7 12SH7



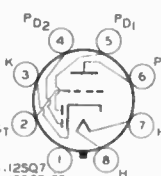
12SJ7(GT)



12SK7(GT)



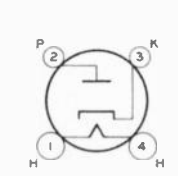
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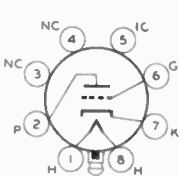
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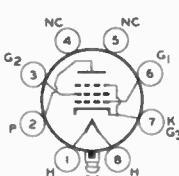
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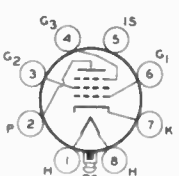
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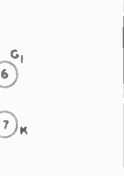
12Z3



14A4



14A5



14A7

Type	Name	Tube Dimensions	Cathode Type and Rating			Use Values to right give operating conditions and characteristics for indicated typical use	Plate Supply	Grid Bias	Screen Supply	Screen Current	Plate Current	AC Plate Resistance	Trans-conductance (Grid-plate)	Amplification Factor	Load for Stated Power Output	Power Output	Type
			C. T.	Volts	Amp.		Volts	Volts	Volts	Ma.	Ma.	Ohms	μmhos		Ohms	Watts	
14AF7	Medium-Mu Twin Triode	8S	H	12.6	0.15	Each Unit as Class A Amplifier											14AF7
14B6	Duplex-Diode High-Mu Triode	8S	H	12.6	0.15	Triode Unit as Class A Amplifier											14B6
14B8	Pentagrid Converter	8S	H	12.6	0.15	Converter											14B8
14C5	Beam Power Amplifier	C2a	H	12.6	0.225	Class A Amplifier	180 315	— 8.5 — 13	180 225	3.0 2.2	29.0 34.0	58000 77000	3700 3750		5500 8500	2 5.5	14C5
14C7	Sharp-Cutoff Pentode	8S	H	12.6	0.15	Class A Amplifier											14C7
14E6	Duplex-Diode Triode	8S	H	12.6	0.15	Triode Unit as Class A Amplifier											14E6
14E7	Twin-Diode Remote-Cutoff Pentode	8S	H	12.6	0.15	Pentode Unit as Class A Amplifier	100 250	— 1 — 3	100 100	2.7 1.6	10.0 7.5	150000 700000	1600 1300				14E7
14F7	Twin-Triode Amplifier	8S	H	12.6	0.15	Each Unit as Class A Amplifier											14F7
14F8	Medium-Mu Twin Triode	80b	H	12.6	0.15	Each Unit as Class A Amplifier	250		Cathode-Bias Res., 500 ohms		6.0	— — —	3300	48			14F8
14H7	Remote-Cutoff Pentode	8S	H	12.6	0.15	Class A Amplifier											14H7
14J7	Triode-Heptode Converter	8S	H	12.6	0.15	Converter											14J7
14N7	Twin-Triode Amplifier	C2a	H	12.6	0.3	Each Unit as Class A Amplifier											14N7
14Q7	Pentagrid Converter	8S	H	12.6	0.15	Converter											14Q7
14R7	Duplex-Diode Pentode	8S	H	12.6	0.15	Pentode Unit as Class A Amplifier											14R7
15	RF Amplifier Pentode	D9	D.C. H	2.0	0.22	Class A Amplifier	67.5 135	— 1.5 — 1.5	67.5 67.5	0.3 0.3	1.85 1.85	630000 800000	710 750				15
16AP4	Directly Viewed Kinescope	P	H	6.3	0.6	Picture Reproduction											16AP4
16AP4-A	Directly Viewed Kinescope With "Filterglass" Face Plate	P0	H	6.3	0.6	Picture Reproduction											16AP4-A
16GP4	Directly Viewed Kinescope With "Filterglass" Face Plate	L	H	6.3	0.6	Picture Reproduction											16GP4

Three vertical rules before or after type No. = Miniature type having either 7 or 9 pins.

Two vertical rules before or after type No. = Metal type.

One vertical rule before or after type No. = GT or other larger glass type.

Light Face = Discontinued type.

For key to tube dimensions and, legend for base and envelope connection diagrams, see page 23.

Grids #3 and #5 are screen. Grid No. 4 is signal-input grid.

▲ Grids #2 and #4 are screen. Grid #3 is signal-input control grid.

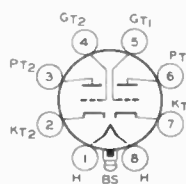
◆ For two tubes.

✱ Applied through plate resistor of 250000 ohms.

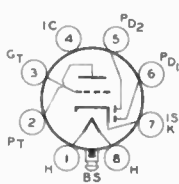
■ Either ac or dc may be used on filament or heater, except as specifically noted. For use of dc on ac filament types, decrease stated grid volts by $\frac{1}{2}$ (approx.) of filament voltage.

* Maximum.

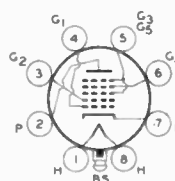
Value is for both units operating at the specified conditions.



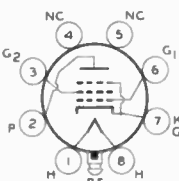
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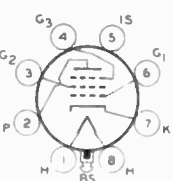
14B6



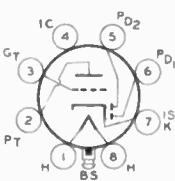
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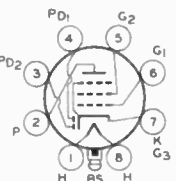
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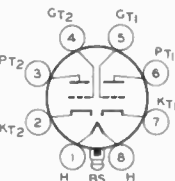
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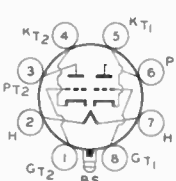
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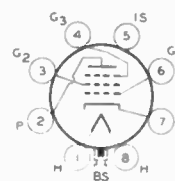
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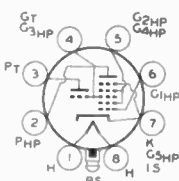
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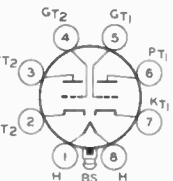
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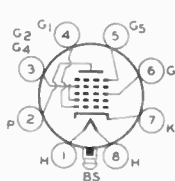
14H7



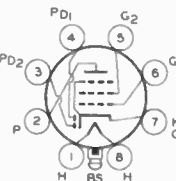
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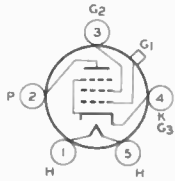
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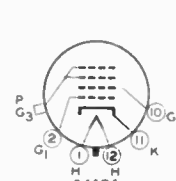
14Q7



14R7



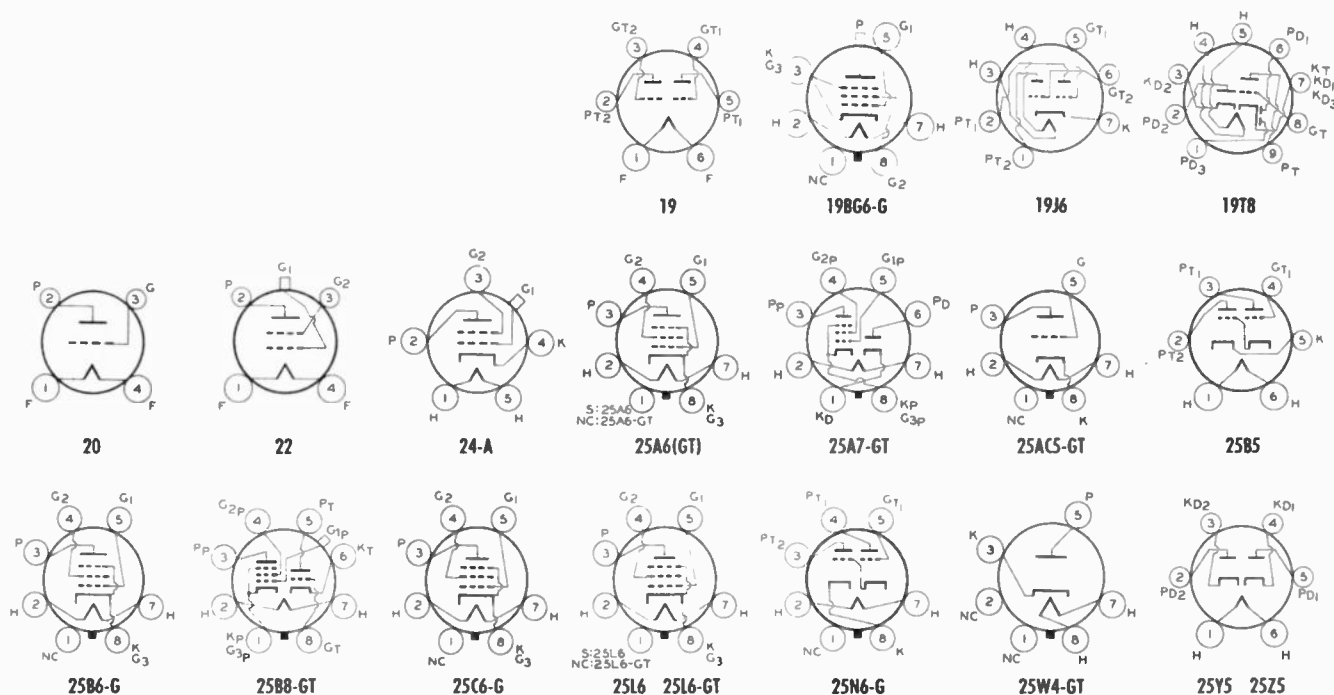
15



16AP4 16GP4

RCA Type	Name	Tube Di- men- sions	Cathode Type and Rating			Use Values to right give operating conditions and characteristics for indicated typical use	Plate Sup- ply Volts	Grid Bias ■ Volts	Screen Sup- ply Volts	Screen Cur- rent Ma.	Plate Cur- rent Ma.	AC Plate Resis- tance Ohms	Trans- conduc- tance (Grid-plate) μmhos	Amplifi- cation Factor	Load for Stated Power Output Ohms	Power Out- put Watts	RCA Type			
			C. T.	Volts	Amp.															
19	Twin-Triode Amplifier	D5	D.C. F	2.0	0.26	Amplifier	For other characteristics, refer to Type 1J6-G.										19			
19BG6-G	Beam Power Amplifier	F1	H	18.9	0.3	Horizontal Deflec- tion Amplifier in TV Equipment	Max. DC Plate Volts, 500 Max. DC Plate Current, 100 ma. Max. Peak Positive-Pulse Plate Volts, 6000 Max. Plate Dissipation, 20 watts										19BG6-G			
19J6	Medium-Mu Twin Triode	B0	H	18.9	0.15	Each Unit as Class A Amplifier	100	Cathode-Bias Res., 50k ohms		8.5	7100	5300	38	19J6						
19T8	Triode-Diode High-Mu Triode	B0a	H	18.9	0.15	Triode Unit as Class A Amplifier	For other characteristics, refer to Type 6T8.										19T8			
20	Power Amplifier Triode	D1	D.C. F	3.3	0.132	Class A Amplifier	90 135	-16.5 -22.5	—	—	3.0 6.5	8000 6300	415 525	3.3 3.3	9600 6500	0.045 0.110	20			
22	RF Amplifier Tetrode	E1	D.C. F	3.3	0.132	Screen-Grid RF Amplifier	135 135	-1.5 -1.5	45 67.5	0.6* 1.3*	1.7 3.7	725000 325000	375 500	22						
24-A	RF Amplifier Tetrode	E1	H	2.5	1.75	Screen-Grid RF Amplifier	180 250	-3.0 -3.0	90 90	1.7* 1.7*	4.0 4.0	400000 600000	1000 1050	24-A						
						Bias Detector	250m	-5.0 (approx.)	20 to 45	Plate current to be adjusted to 0.1 milliamperes with no signal.										
25A6	Power Amplifier Pentode	C2	H	25.0	0.3	Class A Amplifier	95 160	-15.0 -18.0	95 120	4.0 6.5	20.0 33.0	45000 42000	2000 2375	4500 5000		0.9 2.2	25A6			
25A6-GT	Power Amplifier Pentode	C3	H	25.0	0.3	Class A Amplifier	For other characteristics, refer to Type 25A6.										25A6-GT			
25A7-GT	Rectifier Pentode	C3	H	25.0	0.3	Pentode Unit as Class A Amplifier	100	-15.0	100	4.0	20.5	50000	1800	4500		0.77	25A7-GT			
25AC5-GT	High-Mu Power Amplifier Triode	C3	H	25.0	0.3	Half-Wave Rectifier	Max. A-C Plate Volts (RMS), 117		Max. D-C Output Ma., 75		Max. Peak Plate Ma., 450		Min. Total Effect. Supply Impedance, 15 ohms.							
						Class B Amplifier	180	0	—	4.0	4800		6.0							
						Dynamic-Coupled Amp. With Type 6AE5-GT Driver	110	Bias for both 25AC5-GT and 6AE5-GT developed in circuit. Average Plate Current of Driver = 7 milliamperes. Average Plate Current of 25AC5-GT = 45 milliamperes.										2000	2.0	
25B5	Direct-Coupled Power Amplifier	D9a	H	25.0	0.3	Amplifier	For other characteristics, refer to Type 25N6-G.										25B5			
25B6-G	Power Amplifier Pentode	D10	H	25.0	0.3	Class A Amplifier	105 200	-16.0 -23.0	105 135	2.0 1.8	48.0 62.0	15500 18000	4800 5000	1700 2500		2.4 7.1	25B6-G			
25B8-GT	Triode- Pentode	C3	H	25.0	0.15	Triode Unit as Class A Amplifier	100	-1.0	—	—	0.6	75000	1500	112	25B8-GT					
						Pentode Unit as Class A Amplifier	100	-3.0	100	2.0	7.6	185000	2000							
25C6-G	Beam Power Amplifier	D10	H	25.0	0.3	Class A Amplifier	For other characteristics, refer to Type 6Y6-G.										25C6-G			
25L6	Beam Power Amplifier	C2	H	25.0	0.3	Amplifier	110 200	-7.5 -8.0	110 110	4.0 2.0	49.0 50.0	13000 30000	9000 9500	2000 3000		2.1 4.3	25L6			
25L6-GT	Beam Power Amplifier	C3	H	25.0	0.3	Amplifier	For other characteristics, refer to Type 50L6-GT.										25L6-GT			
25N6-G	Direct-Coupled Power Amplifier	D9	H	25.0	0.3	Class A Amplifier	Output Triode: Plate Volts, 180; Plate Ma., 46; Load, 4000 ohms. Triode: Plate Volts, 100; Grid Volts, 0; A-F Signal Volts (Peak), 29.7; Plate Ma., 5.8.										3.8	25N6-G		
25W4-GT	Half-Wave Rectifier	C2b	H	25.0	0.3		For other characteristics, refer to Type 6W4-GT.										25W4-GT			
25Y5	Rectifier- Doubler	D6	H	25.0	0.3	Half-Wave Rectifier	Max. A-C Volts per Plate (RMS), 235 Max. D-C Output Ma. per Plate, 75										Min. Total Effective Plate-Supply Impedance per Plate, 0 ohms.			25Y5
25Z5	Rectifier- Doubler	D6	H	25.0	0.3	Rectifier- Doubler	For other ratings, refer to Type 25Z6.										25Z5			

For footnotes, see preceding page.



RCA Type	Name	Tube Di- men- sions	Cathode Type and Rating			Use Values to right give operating conditions and characteristics for indicated typical use	Plate Supply	Grid Bias	Screen Supply	Screen Current	Plate Current	AC Plate Resistance	Trans- conduc- tance (Grid-plate)	Amplifi- cation Factor	Load for Stated Power Output	Power Out- put Watts	RCA Type
			C. T.	Volts	Amp.		Volts	Volts	Volts	Ma.	Ma.	Ohms	μmhos	Ohms	Ohms		
25Z6 25Z6-GT	Vacuum Rectifier- Doubblers	C2 C3	H	25.0	0.3	Voltage Doubler Half-Wave Rectifier	Max. A-C Volts per Plate (RMS), 117 Max. D-C Output Ma., 75					Min. Total Effective Plate-Supply Impedance: Half- Wave, 30 ohms; Full-Wave, 15 ohms					25Z6 25Z6-GT
26	Amplifier Triode	D12	F	1.5	1.05	Class A Amplifier	90 180	- 7.0 - 14.5	—	—	2.9 6.2	8900 7300	935 1150	8.3 8.3	—	—	26
27	Detector★ Amplifier Triode	D8	H	2.5	1.75	Class A Amplifier Bias Detector	135 250	- 9.0 - 21.0	—	—	4.5 5.2	9000 9250	1000 975	9.0 9.0	—	—	27
30	Medium-Mu Triode	D6	D.C. F	2.0	0.06	Amplifier											30
31	Power Amplifier Triode	D8	D.C. F	2.0	0.13	Class A Amplifier	135 180	- 22.5 - 30.0	—	—	8.0 12.3	4100 3600	925 1050	3.8 3.8	7000 5700	0.185 0.375	31
32	RF Amplifier Tetrode	E1	D.C. F	2.0	0.06	Screen-Grid RF Amplifier Bias Detector	135 180	- 3.0 - 3.0	67.5 67.5	0.4 0.4	1.7 1.7	950000 1.0 + §	640 650	—	—	—	32
32L7-GT	Rectifier-Beam Power Amplifier	C3	H	32.5	0.3	Amplifier Unit as Class A Amplifier Half-Wave Rectifier	90 90	- 5.0 - 7.0	90 90	3.0 2.0	38.0 27.0	15000 17000	6000 4800	—	2600 2600	0.8 1.0	32L7-GT
33	Power Amplifier Pentode	D12	D.C. F	2.0	0.26	Class A Amplifier	180	- 18.0	180	5.0	22.0	55000	1700	—	6000	1.5	33
34	Supercontrol RF Amplifier Pentode	E1	D.C. F	2.0	0.06	Screen-Grid RF Amplifier	135 180	{ - 3.0 } min.	67.5 67.5	1.0 1.0	2.8 2.8	600000 1.0 §	600 620	—	—	—	34
35	Supercontrol RF Amplifier Tetrode	E1	H	2.5	1.75	Screen-Grid RF Amplifier	180 250	{ - 3.0 } min.	90 90	2.5* 2.5*	6.3 6.5	300000 400000	1020 1050	—	—	—	35
35A5	Beam Power Amplifier	C2a	H	35.0	0.15	Single-Tube Class A Amplifier											35A5
35B5	Beam Power Amplifier	B3	H	35.0	0.15	Class A Amplifier											35B5
35C5	Beam Power Amplifier	B3	H	35.0	0.15	Class A Amplifier	110	- 7.5	110	3.0	40.0	13000	5800	—	2500	1.5	35C5
35L6-GT	Beam Power Amplifier	C3	H	35.0	0.15	Single-Tube Class A Amplifier	110 200	- 7.5 - 8.0	110 125	3.0 2.0	40.0 43.0	14000 34000	5800 6100	—	2500 5000	1.5 3.3	35L6-GT
35W4	Half-Wave Rectifier Heater Tap for Pilot	B3	H	35.0	0.15	With Capacitive- Input Filter	Max A-C Plate Volts (RMS), 117 Max. D-C Output Ma.: With Pilot and No Shunt Res., 60; With Pilot and Shunt Res., 90; Without Pilot, 100										35W4
35Y4	Half-Wave Rectifier	C2a	H	35.0	0.15	With Capacitive- Input Filter											35Y4
35Z3	Half-Wave Rectifier	C2a	H	35.0	0.15	With Capacitive- Input Filter											35Z3
35Z4-GT	Half-Wave Rectifier	C3	H	35.0	0.15	With Capacitive- Input Filter	Max. A-C Plate Volts (RMS), 235 Max. D-C Output Ma., 100										35Z4-GT
35Z5-GT	Half-Wave Rectifier Heater Tap for Pilot	C3	H	35.0	0.15	With Capacitive- Input Filter	Max. A-C Plate Volts (RMS), 235 Max. D-C Output Ma.: With Pilot and No Shunt Res., 60; With Pilot and Shunt Res., 90; Without Pilot, 100.										35Z5-GT

Three vertical rules before or after type No. = Miniature type having either 7 or 9 pins.

Two vertical rules before or after type No. = Metal type.

One vertical rule before or after type No. = GT or other larger glass type.

Light Face = Discontinued type.

For key to tube dimensions and, legend for base and envelope connection diagrams, see page 23.

★ For Grid-leak Detection—plate volts 45, grid return to + filament or to cathode.

† Power output is for two tubes at stated plate-to-plate load.

□ Grid #2 tied to plate.

◆ For two tubes.

§ Megohms.

Note 2: Subscript 2 on class of amplifier service (as AB₂) indicates that grid current flows during some part of input cycle.

** For grid of following tube.

× Applied through plate resistor of 250000 ohms.

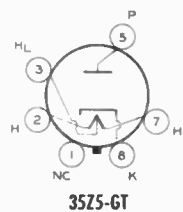
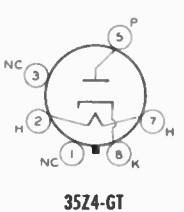
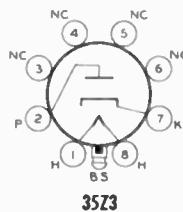
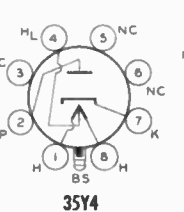
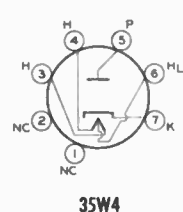
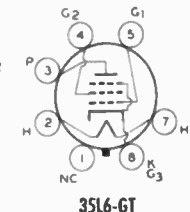
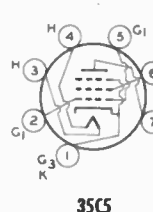
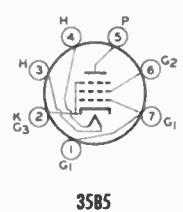
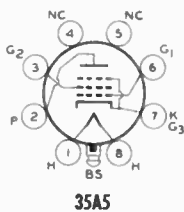
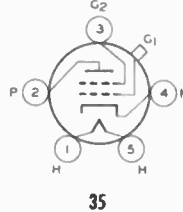
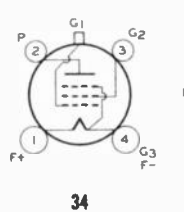
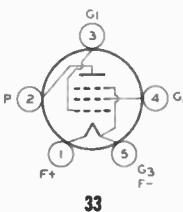
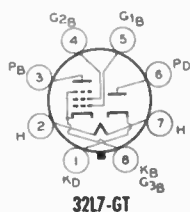
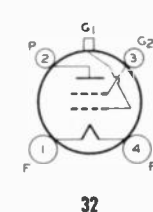
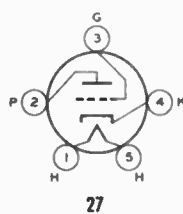
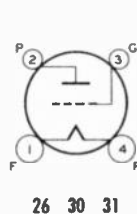
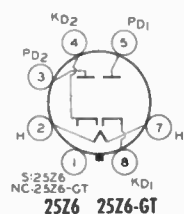
■ Either ac or dc may be used on filament or heater, except as specifically noted. For use of dc on ac filament types, decrease stated grid volts by 1/2 (approx.) of filament voltage.

♥ Applied through plate resistor of 100000 ohms.

◆ Grids #1 and #2 tied together.

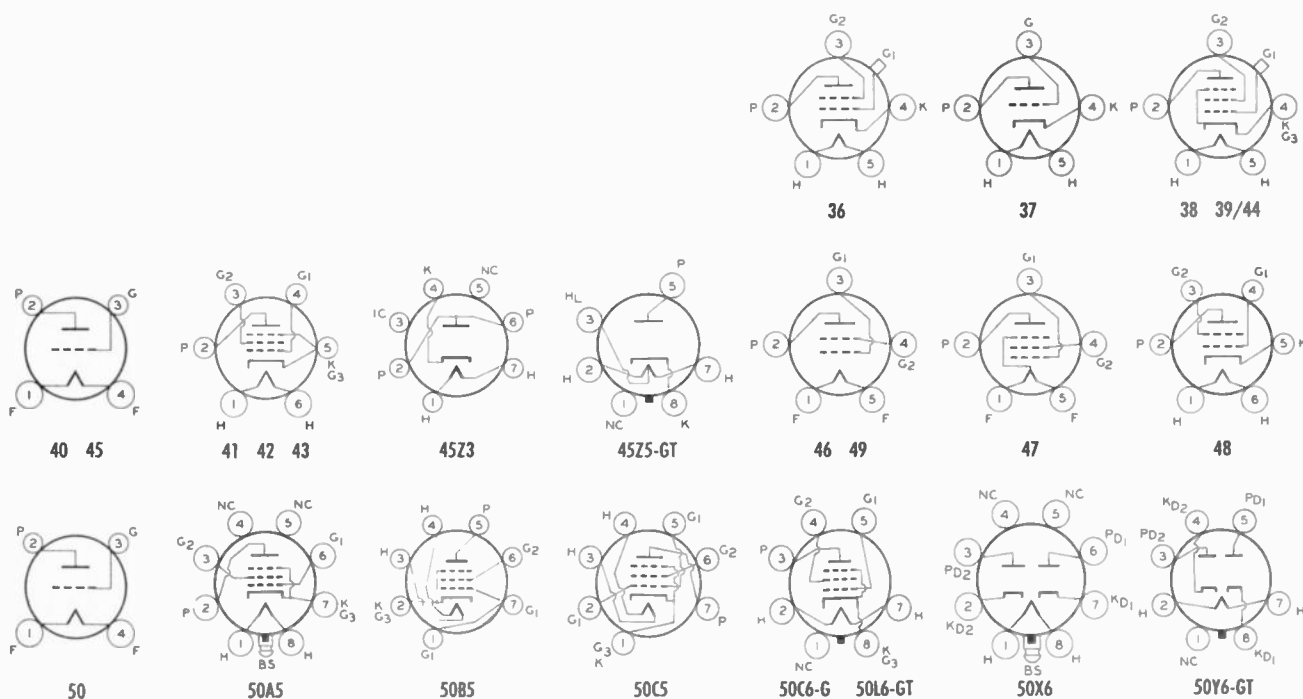
‡ Panel lamp section is between pins 2 and 3.

* Maximum.



RCA Type	Name	Tube Dimensions	Cathode Type and Rating			Use Values to right give operating conditions and characteristics for indicated typical use	Plate Supply Volts	Grid Bias Volts	Screen Supply Volts	Screen Current Ma.	Plate Current Ma.	AC Plate Resistance Ohms	Trans-conductance (Grid-plate) μ mhos	Amplification Factor	Load for Stated Power Output Ohms	Power Output Watts	RCA Type
			C. T.	Volts	Amp.												
36	RF Amplifier Tetrode	D9	H	6.3	0.3	Screen-Grid RF Amplifier	100	-1.5	55	—	1.8	550000	850	—	—	—	36
						Bias Detector	250	-3.0	90	1.7*	3.2	550000	1080	—	—	—	
37	Detector* Amplifier Triode	D5	H	6.3	0.3	Class A Amplifier	90	-6.0	—	—	2.5	11500	800	9.2	—	—	37
						Bias Detector	250	-18.0	—	—	7.5	8400	1100	9.2	—	—	
38	Power Amplifier Pentode	D9	H	6.3	0.3	Class A Amplifier	100	-9.0	100	1.2	7.0	140000	875	—	15000	0.27	38
39/44	Remote-Cutoff Pentode	D9	H	6.3	0.3	Class A Amplifier	90	-3.0 min.	90	1.6	5.6	400000	1000	—	10000	2.50	39/44
40	Medium-Mu Triode	D12	D.C. F	5.0	0.25	Class A Amplifier	135	-1.5	—	—	0.2	150000	200	30	—	—	40
41	Power Amplifier Pentode	D5	H	6.3	0.4	Amplifier	180	-3.0	—	—	0.2	150000	200	30	—	—	41
42	Power Amplifier Pentode	D12	H	6.3	0.7	Amplifier	—	—	—	—	—	—	—	—	—	—	42
43	Power Amplifier Pentode	D12	H	25.0	0.3	Amplifier	—	—	—	—	—	—	—	—	—	—	43
45	Power Amplifier Triode	D12	F	2.5	1.5	Class A Amplifier	180	-31.5	—	—	31.0	1650	2125	3.5	2700	0.82	45
45Z3	Half-Wave Rectifier	B0	H	45.0	0.075	Push-Pull Class AB ₁ Amplifier	275	-56.0	—	—	36.0	1700	2050	3.5	4600	2.00	
						Half-Wave Rectifier	275	-68.0	—	—	28.0	—	—	—	5060	12.0†	45Z3
45Z5-GT	Half-Wave Rectifier Heater Tap for Pilot	C3	H	45.0	0.15	With Capacitive-Input Filter	—	—	—	—	—	—	—	—	—	—	45Z5-GT
46	Dual-Grid Power Amplifier	E3	F	2.5	1.75	Class A Amplifier	250	-33.0	—	—	22.0	2380	2350	5.6	6400	1.25	46
47	Power Amplifier Pentode	E3	F	2.5	1.75	Class B Amplifier	300	0	—	—	8.0	—	—	—	5200	16.0†	
						Class A Amplifier	400	0	—	—	12.0	—	—	—	5800	20.0†	47
48	Power Amplifier Tetrode	E3	D.C. H	30.0	0.4	Tetrode Class A Amplifier	96	-19.0	96	9.0	52.0	—	—	—	1500	2.0	48
49	Dual-Grid Power Amplifier	D12	D.C. F	2.0	0.12	Tetrode Push-Pull Class A Amplifier	125	-20.0	100	9.5	56.0	—	—	—	1500	2.5	
						Class A Amplifier	135	-20.0	—	—	6.0	4175	1125	4.7	11000	0.17	49
50	Power Amplifier Triode	F1a	F	7.5	1.25	Class B Amplifier	180	0	—	—	4.0	—	—	—	12000	3.5†	
						Class A Amplifier	300	-54.0	—	—	35.0	2000	1900	3.8	4600	1.6	50
50A5	Beam Power Amplifier	G2a	H	50.0	0.15	Class A Amplifier	400	-70.0	—	—	55.0	1800	2100	3.8	3670	3.4	
						Class A Amplifier	450	-84.0	—	—	55.0	1800	2100	3.8	4350	4.6	50
50A5	Beam Power Amplifier	G2a	H	50.0	0.15	Class A Amplifier	—	—	—	—	—	—	—	—	—	—	50A5
50B5	Beam Power Amplifier	B3	H	50.0	0.15	Class A Amplifier	—	—	—	—	—	—	—	—	—	—	50B5
50C5	Beam Power Amplifier	B3	H	50.0	0.15	Class A Amplifier	110	-7.5	110	4.0	49.0	10000	7500	—	2500	1.9	50C5
50C6-G	Beam Power Amplifier	D10	H	50.0	0.15	Single-Tube Class A Amplifier	135	-13.5	135	3.5	58.0	9300	7000	—	2000	3.6	50C6-G
50L6-GT	Beam Power Amplifier	C3	H	50.0	0.15	Class A Amplifier	200	-14.0	135	2.2	61.0	18300	7100	—	2600	6.0	
						Single-Tube Class A Amplifier	110	-7.5	110	4.0	49.0	13000	8000	—	2000	2.1	50L6-GT
50X6	Rectifier-Doubler	G2a	H	50.0	0.15	Rectifier-Doubler	200	0	125	2.2	46.0	28000	8000	—	4000	3.8	
						Half-Wave Rectifier	—	—	—	—	—	—	—	—	—	—	50X6
50Y6-GT	Rectifier-Doubler	C3	H	50.0	0.15	Rectifier-Doubler	—	—	—	—	—	—	—	—	—	—	50Y6-GT

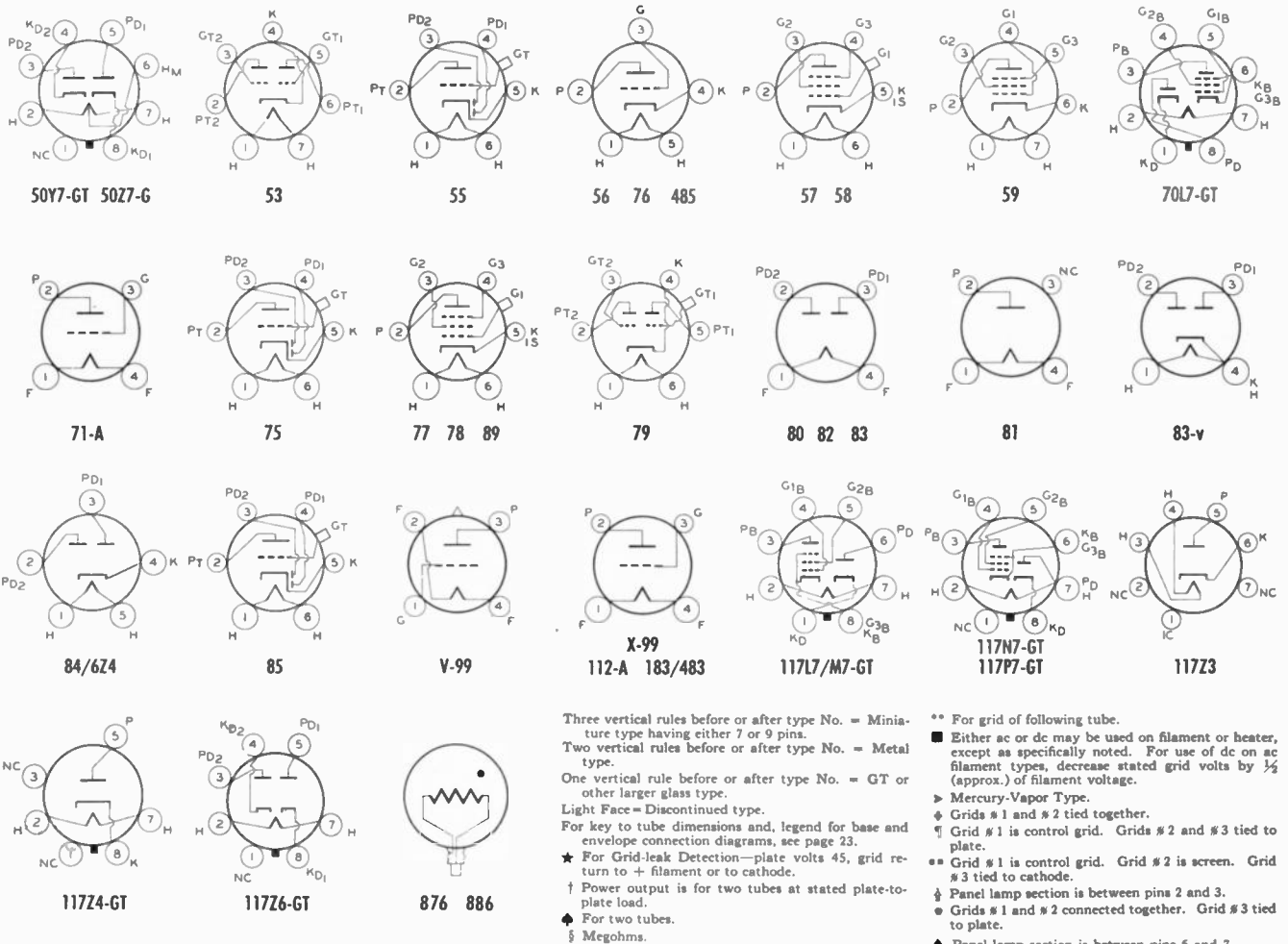
For footnotes, see preceding page.



Type	Name	Tube Dimensions	Cathode Type and Rating			Use Values to right give operating conditions and characteristics for indicated typical use	Plate Supply	Grid Bias	Screen Supply	Screen Current	Plate Current	AC Plate Resistance	Trans-conductance (Grid-plate)	Amplification Factor	Load for Stated Power Output	Power Output	Type
			C. T.	Volts	Amp.		Volts	Volts	Ma.	Ma.	Ma.	Ohms	μmhos		Ohms	Watts	
50Y7-GT	Rectifier-Doubler Heater Tap for Pilot	C2b	H	50.0	0.15	Voltage Doubler Half-Wave Rectifier	Max. A-C Volts per Plate (RMS), 117 Max. D-C Output ma., 65				Min. Total Effective Plate Supply Impedance per Plate, 15 ohms						50Y7-GT
50Z7-G	Rectifier-Doubler Heater Tap for Pilot	D3	H	50.0	0.15	Voltage Doubler Half-Wave Rectifier	Max. A-C Volts per Plate (RMS), 117 Max. D-C Output Ma., 65				Min. Total Effective Plate-Supply Impedance: 15 ohms.						50Z7-G
53	Twin-Triode Amplifier	D12	H	2.5	2.0	Amplifier	Max. A-C Volts per Plate (RMS), 235 Max. D-C Output ma. per Plate, 65				Min. Total Effect. Plate-Supply Imped. per Plate: Up to 117 volts, 15 ohms; at 150 volts, 40 ohms; at 235 volts, 100 ohms.						53
55	Duplex-Diode Triode	D9	H	2.5	1.0	Triode Unit as Amplifier					For other characteristics, refer to Type 85.						55
56	Medium-Mu Triode	D5	H	2.5	1.0	Amplifier Detector					For other characteristics, refer to Type 76.						56
57	Sharp-Cutoff Pentode	D13	H	2.5	1.0	Amplifier Detector					For other characteristics, refer to Type 6J7.						57
58	Remote-Cutoff Pentode	D13	H	2.5	1.0	Amplifier Mixer					For other characteristics, refer to Type 6U7-G.						58
59	Triple-Grid Power Amplifier	E3	H	2.5	2.0	Triode Class A Amplifier	250	-28.0			26.0	2300	2600	6.0	5000	1.25	59
						Pentode Class A Amplifier	250	-18.0	250	9.0	35.0	55000	2500		6000	3.0	
						Triode Class B Amplifier	300 400	0 0			20.0 26.0				4600 6000	15.0 20.0	
						Amplifier Unit as Class A Amplifier	110	-7.5	110	3.0	40.0	15000	7500		2000	1.8	
70L7-GT	Rectifier-Beam Power Amplifier	C10	H	70.0	0.15	Half-Wave Rectifier	Max. A-C Plate Volts (RMS), 117 Max. Peak Inverse Volts, 350				Max. D-C Output Ma., 70 Max. Peak Plate Ma., 420				Min. Total Effect. Plate-Supply Imped., 15 ohms		70L7-GT
71-A	Power Amplifier Triode	D12	F	5.0	0.25	Class A Amplifier	90 180	-16.5 -40.5			10.0 20.0	2170 1750	1400 1700	3.0 3.0	3000 4800	0.125 0.790	71-A
75	Duplex-Diode High-Mu Triode	D9	H	6.3	0.3	Amplifier					For other characteristics, refer to Type 6SQ7.						75
76	Detector Amplifier Triode	D6	H	6.3	0.3	Class A Amplifier	250	-13.5			5.0	9500	1450	13.8			76
						Bias Detector	250	-20.0 approx.							Plate current to be adjusted to 0.2 milliamperes with no signal.		
77	Triple-Grid Detector Amplifier	D9	H	6.3	0.3	Class A Amplifier	100 250	-1.5 -3.0	60 100	0.4 0.5	1.7 2.3	600000 1.0 + $\frac{1}{2}$	1100 1250				77
						Bias Detector	250	-1.95	50		Cathode current 0.65 ma.				Plate Resistor, 250000 ohms. Grid Resistor, 250000 ohms.		
78	Remote-Cutoff Pentode	D9	H	6.3	0.3	Amplifier Mixer					For other characteristics, refer to Type 6K7.						78
79	Twin-Triode Amplifier	D9	H	6.3	0.6	Class B Amplifier	180 250	0 0				Power Output is for one tube at stated plate-to-plate load.			7000 14000	5.5 8.0	79
80	Full-Wave Rectifier	D12	F	5.0	2.0						For other ratings, refer to Type 5Y3-GT.						80
81	Half-Wave Rectifier	F1a	F	7.5	1.25	With Capacitive-Input Filter	Max. A-C Plate Volts (RMS), 700 Max. Peak Inverse Volts, 2000				Max. D-C Output Ma., 85 Max. Peak Plate Ma., 500						81
82	Full-Wave Rectifier	D12	F	2.5	3.0	With Capacitive-Input Filter	Max. A-C Volts per Plate (RMS), 450 Max. Peak Inverse Volts, 1550				Max. D-C Output Ma., 115 Max. Peak Plate Ma., 600				Min. Total Effect. Supply Imped. per Plate, 50 ohms.		82
						With Inductive-Input Filter	Max. A-C Volts per Plate (RMS), 550 Max. Peak Inverse Volts, 1550				Max. D-C Output Ma., 115 Max. Peak Plate Ma., 600				Min. Value of Input Choke, 6 henries		
83	Full-Wave Rectifier	E3	F	5.0	3.0	With Capacitive-Input Filter	Max. A-C Volts per Plate (RMS), 450 Max. Peak Inverse Volts, 1550				Max. D-C Output Ma., 225 Max. Peak Plate Ma., 1000				Min. Total Effect. Supply Imped. per Plate, 50 ohms.		83
						With Inductive-Input Filter	Max. A-C Volts per Plate (RMS), 550 Max. Peak Inverse Volts, 1550				Max. D-C Output Ma., 225 Max. Peak Plate Ma., 1000				Min. Value of Input Choke, 3 henries		
83-v	Full-Wave Rectifier	D12	H	5.0	2.0						For other ratings, refer to Type 5V4-G.						83-v
84/6Z4	Full-Wave Rectifier	D6	H	6.3	0.5	With Capacitive-Input Filter	Max. A-C Volts per Plate (RMS), 325 Max. Peak Inverse Volts, 1250				Max. D-C Output Ma., 60 Max. Peak Plate Ma., 180				Min. Total Effect. Supply Imped. per Plate, 150 ohms.		84/6Z4
						With Inductive-Input Filter	Max. A-C Volts per Plate (RMS), 450 Max. Peak Inverse Volts, 1250				Max. D-C Output Ma., 60 Max. Peak Plate Ma., 180				Min. Value of Input Choke, 10 henries		
85	Duplex-Diode Triode	D9	H	6.3	0.3	Triode Unit as Class A Amplifier	135 250	-10.5 -20.0			3.7 8.0	11000 7500	750 1100	8.3 8.3	25000 20000	0.075 0.350	85
89	Triple-Grid Power Amplifier	D6	H	6.3	0.4	As Triode	160 250	-20.0 -31.0			17.0 32.0	3300 2600	1425 1800	4.7 4.7	7000 5500	0.30 0.90	89
						As Pentode	100 250	-10.0 -25.0	100 250	1.6 5.0	9.5 32.0	104000 70000	1200 1800		10700 6750	0.33 3.40	
						As Triode	180	0			6.0				13600 9400	2.50 3.50	
						Class B Amplifier											
V-99 X-99	Detector Amplifier Triodes	C4 D1	D.C. F	3.3	0.063	Class A Amplifier	90	-4.5			2.5	15500	425	6.6			V-99 X-99
112-A	Detector Amplifier Triode	D12	D.C. F	5.0	0.25	Class A Amplifier	90 180	-4.5 -13.5			5.0 7.7	5400 4700	1575 1800	8.5 8.5			112-A
117L7/ M7-GT	Rectifier-Beam Power Amplifier	C5b	H	117	0.09	Amplifier Unit as Class A Amplifier Half-Wave Rectifier	105 Max. A-C Plate Volts (RMS), 117 Max. Peak Inverse Volts, 350	-5.2	105	4.0	43.0	17000	5300		4000	0.85	117L7/ M7-GT
117N7-GT	Rectifier-Beam Power Amplifier	C5b	H	117	0.09	Amplifier Unit as Class A Amplifier Half-Wave Rectifier	100 Max. A-C Plate Volts (RMS), 117 Max. Peak Inverse Volts, 350	-6.0	100	5.0	51.0	16000	7000		3000	1.2	117N7-GT
117P7-GT	Rectifier-Beam Power Amplifier	C5b	H	117	0.09	Amplifier Unit as Class A Amplifier Half-Wave Rectifier					For other characteristics, refer to Type 117L7/M7-GT.						117P7-GT
117Z3	Half-Wave Rectifier	B1a	H	117	0.04	With Capacitive-Input Filter	Max. A-C Plate Volts (RMS), 117 Max. Peak Inverse Volts, 330				Max. D-C Output Ma., 90 Max. Peak Plate Ma., 540				Min. Total Effect. Plate-Supply Imped., 15 ohms		117Z3
117Z4-GT	Half-Wave Rectifier	C0	H	117.0	0.04	With Capacitive-Input Filter	Max. A-C Plate Volts (RMS), 117 Max. Peak Inverse Volts, 350				Max. D-C Output ma., 90 Max. Peak Plate ma., 540				Min. Total Effect. Plate-Supply Imped., 30 ohms		117Z4-GT
117Z6-GT	Rectifier-Doubler	C3	H	117	0.075	Voltage Doubler Half-Wave Rectifier	Max. A-C Volts per Plate (RMS), 117 Max. D-C Output Ma., 60 Max. A-C Volts per Plate (RMS), 235 Max. D-C Output Ma. per Plate, 60				Min. Total Effective Plate-Supply Impedance per Plate: Half-Wave, 30 ohms; Full-Wave, 15 ohms.				Min. Total Effect. Supply Imped. per Plate: Up to 117 volts, 15 ohms; at 150 volts, 40 ohms; at 235 volts, 100 ohms.		117Z6-GT
183/ 483	Power Amplifier Triode	D12	F	5.0	1.25	Class A Amplifier	250	-60.0			30.0	1750	1700	3.0	5000	1.8	183/ 483
485	Detector Amplifier Triode	D6	H	3.0	1.25	Class A Amplifier	180	-9.0			5.8	8900	1400	12.5			485
876	Current Regulator	Q1	F			Voltage Range	40 to 60 Volts				Operating Current				1.7 Amperes		876
886	Current Regulator	Q1	F			Voltage Range	40 to 60 Volts				Operating Current				2.05 Amperes		886

For footnotes, see following page.

RCA RECEIVING TUBES



LEGEND FOR BASE AND ENVELOPE CONNECTION DIAGRAMS

Bottom Views

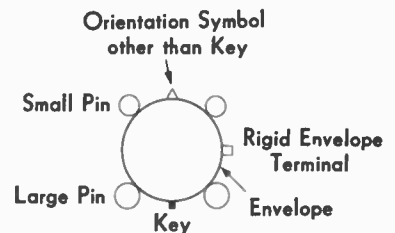
KEY TO TERMINAL DESIGNATIONS

Subscripts B, D, HP, HX, P, T, and TR indicate, respectively, beam unit, diode unit, heptode unit, hexode unit, pentode unit, triode unit, and tetrode unit in multi-unit types.

BC = Base Sleeve
BS = Base Shell
DJ = Deflecting Electrode
ES = External Shield
F = Filament
F_M = Filament Mid-Tap
G = Grid

H = Heater
H_L = Heater Tap for Panel Lamp
H_M = Heater Mid-Tap
IC = Internal Connection—Do Not Use
IS = Internal Shield
● = Gas-Type Tube

K = Cathode
NC = No Connection
P = Plate (Anode)
RC = Ray-Control Electrode
S = Shell
TA = Target
U = Unit



KEY TO TUBE DIMENSIONS

Symbol	Maximum Overall Length x Diameter	Symbol	Maximum Overall Length x Diameter	Symbol	Maximum Overall Length x Diameter	Symbol	Maximum Overall Length x Diameter	Symbol	Maximum Overall Length x Diameter
A	1 1/2" x 3/8"	B5	2 1/2" x 1 1/8"	C10	3 1/2" x 1 1/8"	D9	4 1/2" x 1 1/8"	G1a	1 1/2" x 2 1/8"
A1	1 1/2" x 3/8"	B5a	2 1/2" x 1 1/8"	C10a	3 1/2" x 1 1/8"	D9a	4 1/2" x 1 1/8"	H1	1 1/2" x 5 1/8"
A1a	1 1/2" x 1 1/8"	C0	3" x 1 1/8"	C11	3 1/2" x 1 1/8"	D10	4 1/2" x 1 1/8"	I1	1 1/2" x 7 1/8"
B0	2 1/2" x 3/8"	C0a	3 1/2" x 1 1/8"	D1	4 1/2" x 1 1/8"	D12	4 1/2" x 1 1/8"	J	1 1/2" x 7 1/8"
B0a	2 1/2" x 3/8"	C1	3 1/2" x 1 1/8"	D2	4 1/2" x 1 1/8"	D12a	4 1/2" x 1 1/8"	K	1 1/2" x 7 1/8"
B0b	2 1/2" x 1 1/8"	C2	3 1/2" x 1 1/8"	D2a	4 1/2" x 1 1/8"	D13	4 1/2" x 1 1/8"	L	1 1/2" x 16"
B0c	2 1/2" x 1 1/8"	C2a	3 1/2" x 1 1/8"	D3	4 1/2" x 1 1/8"	E1	5 1/2" x 1 1/8"	M	1 1/2" x 10 1/8"
B1	2 1/2" x 3/8"	C2b	3 1/2" x 1 1/8"	D4	4 1/2" x 1 1/8"	E2	5 1/2" x 1 1/8"	N	1 1/2" x 12 1/8"
B1a	2 1/2" x 1 1/8"	C3	3 1/2" x 1 1/8"	D5	4 1/2" x 1 1/8"	E3	5 1/2" x 1 1/8"	O	2 1/2" x 9 1/8"
B2	2 1/2" x 1 1/8"	C5	3 1/2" x 1 1/8"	D7	4 1/2" x 1 1/8"	F1	5 1/2" x 2 1/8"	P	2 1/2" x 16"
B3	2 1/2" x 3/8"	C5a	3 1/2" x 1 1/8"	D8	4 1/2" x 1 1/8"	F1a	6 1/2" x 2 1/8"	P0	2 1/2" x 16"
B4	2 1/2" x 3/8"	C9a	3 1/2" x 1 1/8"	D8a	4 1/2" x 1 1/8"	G1	8" x 2 1/8"	Q	2 1/2" x 12 1/8"

• **TUBE HANDBOOK**—ALL TYPES HB-3 (7 $\frac{3}{8}$ " x 5")—The bible of the industry—contains over 2000 pages of loose-leaf data and curves on all RCA receiving tubes, power tubes, cathode-ray tubes, phototubes, and special tubes. Three deluxe 4-prong binders imprinted in gold. Available on subscription basis. Price \$10.00* including service for first year. Write to Commercial Engineering for descriptive folder and order form.

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• **RADIOTRON DESIGNER'S HANDBOOK**—(9" x 6")—356 pages. Edited by E. Langford Smith of Amalgamated Wireless Valve Company Pty. Ltd. in Australia. Of value to anyone interested in fundamental principles of practical circuit design. Copiously illustrated. Price \$1.25.*

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• **TRIPLE PINDEX**—2F366R (8" x 3 $\frac{3}{4}$ ")—Completely revised. Receiving and kinescope tube base diagram guide on 550 RCA types arranged in numerical alphabetical sequence. The diagrams of any three tubes can be located and kept in front of you at the same time. Price 75 cents.*

• **TELEVISION SERVICE DATA**—TV1003 (11" x 8 $\frac{1}{2}$ ")—112 pages. For RCA Victor Models 630TS and 648 PTK. Contains alignment procedures, schematic diagrams, complete parts lists, wiring diagrams, and chassis layout. Price \$1.50.*

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