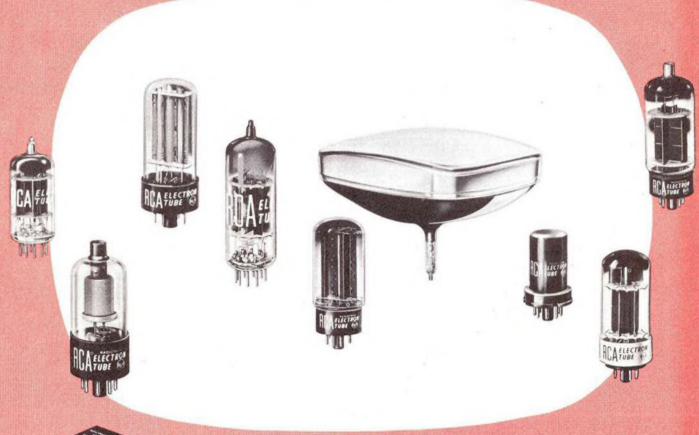
receiving tubes and picture tubes





characteristics and socket connections for

- POWER AMPLIFIERS VOLTAGE AMPLIFIERS OSCILLATORS
- RECTIFIERS DETECTORS CONVERTERS MIXERS
- TV PICTURE TUBES



RADIO CORPORATION OF AMERICA

ELECTRON TUBE DIVISION

HARRISON, N. J.

RCA Receiving Tubes

Chart 1. is arranged to permit quick determination of the type designations of (A) RCA picture tubes according to their envelope size, focus method, and deflection method; and (B) all other RCA receiving tubes according to their functions and filament or heater voltages. Chart 2.

starting on page 6 lists characteristics and operating data of all RCA receiving tubes. Chart 3, starting on pages 38 and 39 lists characteristics and operating data of all RCA picture tubes. Both Charts 2, and 3, include RCA discontinued types.

1. RECEIVING TUBE CLASSIFICATION CHART

A-Picture Tubes

	Face day	D 0 .:		Approximate Envelo	ope Diameter (Inches)	
	Facusing Method	Deflection Method	5-15	16-17	19-22	24-27
	electrostatic	electrostatic	7]P4			
Directly Viewed	electrostatic	magnetic	8DP4 14ATP4 14HP4 14QP4-A 14RP4 14RP4-A 14WP4-I4ZP4	17AVP4/17ATP4 17AVP4-A/17ATP4-A 17BJP4 17BVP4 17BZP4/17CAP4/ 17CKP4/17RRP4 17CKP4/17CKP4/17CKP4 17CKP4/17CYP4 17CKP4/17CYP4 17DKP4/17CYP4 17DKP4/17DKP4 17HP4/17RP4 17HP4/17RP4 17HP4-B/17RP4-C 17LP4/17VP4 17LP4-A/17VP4-B 17TP4	20HP4-A 20MP4 20HP4-D 21A1-P4 21A1-P4-B 21A1-P4-A 21ATP4-A 21ATP4 21AVP4-B 21AUP4-B 21AVP4-B 21AUP4-B 21AVP4-A 21AUP4-A 21BTP4-21CBP4-A 21CEP4 21CXP4 21DAP4 21CEP4-A 21DEP4-A 21DEP4-A 21DEP4-A 21DEP4 21DEP4 21MP4 21FP4-A 21FP4-C 21XP4-A 21YP4 21YP4-A 21YP4-A	24AEP4 24AHP4 24AUP4 24BAP4 24DP4-A 24YP4
	magnetic	magnetic	10BP4-A 10FP4-A 12KP4-A 12LP4-A 14EP4/14CP4/14BP4	16AP4-A 16DP4-A 16GP4-B 16LP4-A 16RP4/16KP4 16RP4-A/16KP4-A 16TP4 16WP4-A 17BP4-A 17BP4-B 17CP4 17QP4 17QP4-A	19AP4-B 20DP4-A, 20CP4-A 20DP4-C/20CP4-D 21ACP4-A/21BSP4/21AMP4-A 21AP4-21AWP4-21EP4-A 21EP4-B-21WP4-21WP4-A 21ZP4-A-21ZP4-B	24ADP4/ 24VP4-A/ 24CP4-A/ 27EP4 24TP4 27MP4 27RP4
Projection	electrostatic	magnetic	5TP4			
COLOR	TYPES					
Directly	electrostatic	magnetic	15GP22		21AXP22-A 21AXP22-A/ 21AXP22 21CYP22	

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

Fila	ment or Heate	va Volts	1.25	-1.4	2	2.0-5.0	0		6.3-117.0	
			Minia- ture	Other	Octal	Other	Minia- ture	Miniature	Octal	Other
RECTIFII	R DIODES-	Vacuum Typ	es (For	rectifiers	with amp	lifier u	nits, see F	OWER AMPLIFIE	RS).	
	Application	Peak Inverse Volis						6AF3 6V3-A 17H3- [12AF3];		
	Damper	Above 1500							[17AX4-GT+ 17D44] 1710E41 19AU41 25AX4-GT 25W4-GT	
Single Diade	Low-Current Pulsed or RF Rectifier	Above 1500	1AX2 1V2 [1X2-A] [1X2-B]	IB3-GT IG3-GT/ IB3-GT IJ3 IK3	3A3 3B2		3A2			
	60-Cycle Half-Wave Rectifier	Below 1500						35W4 36AM3 50DC4 11 7Z 3	6W4-GT 25W4-GT [35Z4-GT 35Z5-GT]	1-v 35Y4 35Z3
	Doubler	Below 1500							[25Z6-GT 50Y6-GT 50Y7-GT 117Z6-GT	25Z5 50X6
Twin Diade	Full-Wave	Above 1500			3AS4-A 5T4 5U4-G 5U4-GB 5X4-G	5Z3				
	Rectifier	Below 1500			5V3 5V4-G 5V4-GA 5Y3-GT 5Y4-GT 5Z4	5AZ4 80		6BW4 [6X4 12X4	6AXS-GT 6XS-GT]	7Y4 7Z4 84/6Z4

^{* 300-}milliampere heater type having controlled warm-up time for series-string TV operation.

^{* 450-}milliampere heater type having controlled warm-up time for series-string TV operation.

^{† 600-}milliampere heater type having controlled warm-up time for series-string TV operation.

Twin type.

RECEIVING TUBE CLASSIFICATION CHART --- Cont'd

File	ament or Hea	ter Volts	1.2	25 1.4		2.0 -5	.0		6.3—117.0	
			Minia ture	Other	Octol	Othe	Minia-	Miniature	Octal	Othe
DETECT	OR DIODES	(For diode o	efectors	with amp	lifier unit	s, see	IFIERS a	nd also POWER A	MPLIFIERS).	
Single D	iode		1A3							
Twin Die	ode						2F.N5*	6AL5 12AL5	6H6 12H6	7.46
Triple Di	iode						MUN	6BC7 6BJ7	0110 12110	7.40
		S with and v	rithout R	Rectifiers,	Diode De	ectors	and Vo	ltage Amplifiers.	-	-
	low-mu					2A3			6CK4	
	_	single unit				45		101		
Triades	medium-mu high-mu	single unit						6C4	6AC5-GT	
		tinu niwt							6AQ7-GT F6N7 6N7-GT	
		single unit						12K5		
		with one						12EM6°		
Tetrades		diode with two						12DL8" 12DS7"		
		diodes						12JDV8° 12J8°		
		with triode		305-GT*	5V6-GT:		3BN61†	12AL8° 6BN6-6AQ5-A+		7A5
Beam Power Tubes		single unit		31.F4*			4BN6+1 5AQ5+ 5CZ5+	6AS5 6BK5 6BQ5 6CU5 6CZ5 6DS5 6DT5 6EM5 8BQ5† 8EM5‡ 12AB5 12AQ5 12BK5† 12CU5† 12CU5† 12CU5† 12CU5+12CT† 12EU5* 12BT\$ 25BK5* 25CS 25CA5* 32ET5 [39B5 35C5] [50B5 50C5] 6973 7189	6AU5-CT 6AV5-CA 16BG6-C 6BG6-CA 6BG6-CTB 6CU6 6CB5-A 6CD6-CAT6D6-C GT 6DN6	7C5 35A5 50A5
		with diade	Deal	IA5-GT				6ARi [6CL6	117L7 M7-GT 117P7-GT 117N7-GT	7AD7
^D entodes		single unit	3Q4* 3V4*	1C5-G11 1L.B4		47		6CM6 6EH5 12DQ7⁴ 12EH5‡ 25EH5 50EH5[6AK6	6AG7] [6F6 6F6-G 6F6-GT [6K6-GT	42 7B5 41 43
		with Iriode							6AD7-G	
CONVE	RTERS & MI	XERS (For a	her type	es used as	Mixers,	ee VC	LTAGE	AMPLIFIERS).		
	pentagrid		IL6 IR5	IA7-GT IEA6 ILC6				6BA7 6BE6 12AD6" 12BA7 18FX6 [12BE6	[6A8 6A8 C; 6A8-GT 6SB7-Y] 6SA7 6SA7-GT] 12A8-GT 12SA7 12SA7-GT]	6A7] 7B8 7Q7 14Q7
	triade-tetrad	e				-	CL8-A:	6CL8-A- 9CL8		
Con- verters	triode-pentor						5A'F8± 5CG8± 5U8± 5X8‡	6AT8 6AT8-A* 6CG8-A* 6X8 6EA8* 6EH8 6U8-A* 9U8-A* 19X8		
	triode-hexod								6K8 12K8	
-	triade-hepto	de				-				7.37
Adhesis	octode							-	61.7	7A8
Mixers	pentagrid DN-RAY TU	prc							61.7	
ndicator	714-KA 1 1U	DC3.				1		EMOUNTS.		4 A T1C 408 .
Single	with triode					1		EM84/6FG6		6AB5/6N 6E5 6U5
Single	without tried	0							6AF6-G	
Twin										

^{* 300-}milliampere heater type having controlled warm-up-time for series-string TV operation.

* 450-milliampere heater type having controlled warm-up-time for series-string TV operation.

 ⁶⁰⁰⁻milliampere heater type having controlled warm-up time for series-string TV operation.
 Heater arranged for either 6.3- or 12.6-volt operation.

^{*} Filament arrangement for either 1.4- or 2.8-volt operation

[§] For use in automobile radio receivers operating from 12-volt storage batteries.

RECEIVING TUBE CLASSIFICATION CHART-Cont'd

File	ment or Heat	er Volts	1.25	-1.4		2.0-5	.0		6.3117.0	
			Minia- ture	Other	Octol	Other	Minia-	Miniature	Octal	Other
		FIERS with an	d withou		Detactors	Ų				
TRIODE	low-mu	AND PENT	ODE D	ETECTOR	RS; OSC	ILLAT	ORS.	12FK6°		
	10W-IIIU	single unit		ILE3		27	2AF4-A: 3AF4-A• 2BN4;	[6AF4 6AF4-A] 6BC4	6AH4-GT [6C5 6C5-GT] [6J5 6J5-GT] 12J5-GT	744
		with pentade					5B81 5AN81 5AV82 5BE82 5BR81 5U82	6AU8‡/6AX8 6BH8† 6U8.A • 6AR8 6CH81 6AZ8 6BA8.A • 6CX8 6CU8- 6EA8 • 6EH8 • 8AU8- 8BH8 • 8CX8† 9U8.A † 12CT84 7199\$	6AD7-G	6F7
		with tetrode	1				SCL8-A∄ 5CQ8‡	6CL8-A- 6CQ8- 9CL8- 12AL8-		
	medium-mu	with two diodes						6BJ8t [6BF6 [2AE6° 12AE6-A] 12AJ6° 12FK6" 12FM6° [12BF6	6R7 6SR7]	
Triodes		twin unit					4BQ7-A† 4BS81 4BC81 4BZ71 5BK7-A 5BQ7-A 5J6‡	6BS8 6BZ7 J 6BK7-B•	6BL7.GTA 6BX7.GT 6C8.G 6F8.G 6SN7.GTB 12AH7.GT 12SN7.GT	7AF7 7F8 7N7 14AF7 14F8
		dual unit						6CM7‡ 6CS7‡ 6CY7 6DE7 6DR7 8CM7• 10DE7‡ 11CY7• 13DE7•	6DN7	
		single unit						6AB4 6AM4 6AN4	6F5 [6SF5 6SF5-CT] 12SF5	7B4
		with diode		IH5-GT ILH4						
	high-mu	with two diodes					3AV6‡	[6AQ6 6AT6 6BN8f] [6AV6 6CN7.] 8BN8- 8CN74+ 9BR7*‡ 12AT6 12AV6 12BR7* 12EL6° 18FY6	607 607-CT] 6\$Q7 6\$Q7-CT] 12Q7-GT [[2\$Q7 12\$Q7-CT]	7B6 7C6 7K7 7X7 14B6 75
		with three diodes					5 T 8‡	[6T8 6T8-A•]	6S8-GT	
		twin unit						6DT8 12BZ7* 12AT7* 12AX7* 12AZ7* 12DT8 7025*	6SC7 6SL7-GT 12SC7 12SL7-GT	7F7 14F7
		with pentade					5CM8‡	6AW8‡ 6AW8-A₹ 6CM8• 6EB8 8AW8-A• 8EB8‡ 10C8△		
		single unit				24-A	2CY5‡ 3CY5•	[6CY5 6FV6]		
l'etrodes	sharp- cutoff	with triode					5CL8-At 5CQ8t	6CL8-A · 6CQ8 · 9CL8		
	remole-	single unit	1T4	1LG5				6BJ6 [6BA6 [6BD6 12AC6° 12AF6° 12BL6° [12BA6 [12BD6	6AB7 6S7 6SC] 6SK7 6SK7-GT] [6K7 6K7-GT] 12SG] 12SK7 12SK7-GT] 6SS7 12K7-GT	6D6 7A7 7AH7 7B: _7H7 78] 14A7
Pentodes	cutoff	with triode						12CN5° 12DX6°	124-1421	6F7
		with diode	1DN5					6CR6 12CR6	6SF7 12SF7	
		with two diades						12F8°	6B8 12C8	7£7 7R7 14R7
	semi- remote	single unit					3BZ6‡ 4BZ6•	6BZ6 6DC6 18FW6		
	cutoff	with triode						6AZ8		

RECEIVING TUBE CLASSIFICATION CHART—Cont'd

Fila	ment or Heat	er Volts	1.25	5—1.4	2	2.0-5	.0		6.3—117.0	
			Minia- ture	Other	Octal	Other	Minia- ture	Miniature	Octol	Other
		FIERS with or				II i A l	ORS			
	, 12.11.03.2,	single unit	11.4 16.4	ILNS INS-GT			3AU61 3BC5; 3CB61 3CB61 3DK61 3DK61 3DT6: 4AU6- 4BC5- 4CB6- 4DE6- 4EW6:	6AC5 6BC5 6AH6 6AK5 6CB6 6DE6 6CB6-A* 6CF6 12AU6 6DK6 6CY5 6DT6 12AW6 12BY7* 12BY7-A*1 12CX6* 12FA6* 12EK6* 6EW6 5879\$	6AC7 65J7 12SH7 12SJ7	6C6 7AG7 7C 7G7 7L7 7V7 7W1
		twin unit					3BU8; 4BU8•	6BU8		
Pentodes	shaip- cutoff	with triode					5AN& 5AV& 5B& 5BE& 5BR& 5CM& 5U&	BAN8 GAX8 BUS-AT 6CH8 6AUST 6AWST 6BHST GAWST 6BHST GBR8 6BR8-AT 6CM8-6CU8- 6CX8 6EAS- 6EB8 6EITS- 8AUS- 8AWS-A-8BHST 9CXST 8EBST 9ZZTS-7199◆		
		with diode	1S5 1U5	ILID5			5AM8‡ 5AS8‡	6AM8-A 6AS8 6BY8‡		
		with two diodes					5BT8‡			
Beam Pentode		single unit					3BN6‡‡ 4BN6•†	6BN6		
HORIZO	NA LATINO	D VERTICA	L DEFL	ECTION	AMPLI	IERS	AND O	SCILLATORS. (fo	r TV Receivers)	
	low-mu	single unit							6CK4	
		lwin unil						6S4-A2 12B4-A42 6CG7\$ 7AU7*1 8CG7* 12AU7-A* 12BH7-A43	6AH4-GT 6BL7-GTA 6BX7-GT 6SN7-GTB;	
Triodes	medium-mu	dual unii						6CM7† 6CS7‡ 6CY7 6DE7 8CM7• 10DE7‡ 11CY7• 13DE7•	6DN7	
		with two						6BJ8;		
Beam Power Tubes		single unit					5CZ5‡	6CM6 6CZ5+ 6DT5 6EM5 8EM5 [12D85‡ 12DT5₫] 12R5	6AU5-GT 6AV5-GA 6BG6-G 6BG6-GA 6BG6-GTB 6CU6 6CB5 6CB5-A [6CD6-GA 6DN6] 6DQ5 6DQ6-A 1ZDQ6-AT 1ZDQ6-AT 1ZDQ6-AT 1ZDQ6-CTB 1ZCU61 1ZEN6; 17BQ6-GTB- 17DQ6-A- 18A5- 19BG6-GA 25AV5-GA ² 25BQ6-GTB, 25CU6 [ZiCD6-GAT] 1Z5CD6-GAT 1Z5CD6-GAT	
Pentode		single unit							25DN6‡ 6K6-GT (Triode connected)	
GATED	AMPLIFIER:	S								
Pentagric	Amplifier						3BY61 3CS62 4CS6	6BY6 6CS6 !2EG6°		
		DEGIN ATO	NDC .	_		_				-
SHUNT	VOLTAGE	REGULATO)K2							

a 300-milliampere heater type having controlled warm-up time for series-string TV operation.

^{• 450-}milliampere heater type liaving controlled warm-up time for series-string TV operation.

^{1 600-}milliampere heater type having controlled warm-up time for series-string TV operation.

^{*} Fixater arranged for either 6.3- or 12.6-volt operation.

[•] Heater arranged for either 3.5- or 7.0-volt operation.

For use in automobile receivers, with electrode voltages supplied directly from a 12-volt storage battery.

With dissimilar triodes.

For high-quality, high-fidelity audio applications where low noise and hum characteristics are primary considerations.

[†] Beam tube.

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.

RCA		Tube Di-	Col	thode 1	ĭvne	Values to right give operating conditions	Plate	Catal	Screen		Plate	AC Plate		Amplifi-		Power	RCA
Type	Name	mon- sions		nd Rati		and characteristics for Indicated Typical use	Ply Valis	Grid Bios Volts	Poly Volts	Cur- rent Ma.	Cur- rent Ma.	Resis- tonce Ohms	(Crid-Plate)	Factor	Power Output Ohuns	Out- tuq Watts	Туре
00-A	Detector Triode	D12a	D.C.	5.0	0.25	Grid-Leak Detector	45	Gri	d Return) Filame	to	1.5	30000	655	20	_		00-A
01-A	Detector#	D12a	D.C.	5.0	0.25	Class A Amplifier	90 135	- 4.5 - 9.0	/ Itamic	-	2.5	11000	725 800	8.0 8.0	_		01-A
0¥4	Amplifier Half-Wave	82	Cold		-	Rectifier		Max. Pesk Max. DC S				Max	Peak Plan	e Current			0Y4
024	Gas Rectifier Full-Wave	83				1/ == 43 C ==		Startin	g Supply	Voltage	per Pl	ate. 300 n	iii. peak	volts. Pes	k Plate		024
0Z4-G	Gas Rectifier	B?	Cold			Rectifier		DC O	stput Vol	ltage, 300	mnx. vo	ts.	ent. 75 ni				0Z4-G
1A3	HF Dinde	Ba	Н	1.4	0.15	Detector Rectifier	i	Max. Peak Max. Peak	Plate M	Voits, 330 B., 5		Max	DC Outpe Peak Hea	ter-Cathoo	de Volts, 1	40	1A3
1A4-P	Remate-Cutoff Pentode	D9	D.C. F	2.0	0.06	Amplifier							to Type II	D5-GP.	1		IA4-F
1A5-GT	Power Amplifier Pentode	G2c	0.C. F	1.4	0.05	Class A Amplifier	90 90	- 4.5 - 4.5	85 90	0.7	3.5 4.0	300000	800 850	_	25000 25000	0.100	1A5-G
1A6	Pentagrid Converter a	DB	D.C.	2.0	0.06	Converter	135 180	- 3.0 min.	67.5 67.5	2.5	1.2	400000 500000	2.3 ma. O Conversio	scillator G n Transco	rid (#1) nd., 300	nex. volts, Resistor o microuhos. Its, 1-2 n.a.	1A6
1A7-GT	Pentagrid Converter a	C3	D.C.	1.4	0.05	Converter	911	п	454	0.7	0.6	600000	Oscillator-	Grid (# I) Resistor	, 0.2 meg.	1A7-G
1AC5	Power Pentode	A	F	1.25	0.04	Class A Amplifier	45 67.5	- 3 - 4.5	45	0.2	1.0	170000 150000	60I) 750		10000	0.015	IACS
1AD5	Sharp-Cutoff	Δ	F	1.25	0.04	Class A Amplifier	30 67,5	0	30 67.5	0.16	0.45	700000 700000	430 735	_		-	1AD5
1AX2	Hulf-Wave	BSa	F	1.4	0.65	Pulsed Rectifier in TV Receivers	Ma	z. Peak In	erse Plat	te Volts, 2		701000		rage Plate	Ma, 1		1AX2
1B3-GT	Rectifier Half-Wave	D2	F	1.25	0.2	Pulsed Rectifier in	Mas	k. Peak Inv	rerse Plat	e Volts, 3	0000		Average Pla			100 V a	1B3-G
1B4-P	Rectifier RF Amplifier	D8	D.C.	2.0	0.06	TV Receivers Amplifier	DWIS	K. Peak Pis			haracteri		to Type 18		voitage, 3	uu Kc	1B4-P
1B5/25S	Pentode Duplex-Diode	Ds	D.C.	2.0	0.06	Triode Unit as			F	or other c	haracteri	stica, cefer	to Type 1F	R6-G.			1B5/25
1B7-GT	Pentagrid Converter s	C3	D.C.	1.9	0.10	Amplilier Converter	90	0	45.	1.3	1.5	350000	Anode-Gri Oscillator-	id (* 2): 9 Grid (* 1) Resistor	lts, 1.6 ma. , 0.2 meg. micrombos	1B7-G7
1C5-GT	Power Amplifier	C2c	D.C.	1.4	0.10	Class A Amplifier	83 90	- 7.0 - 7.5	83	1.6	7.D 7.5	110000 115000	1500 1550		9000	0.20	1C5-G
1C6	Pentagrid Pentagrid	D9	D.C.	2.0	0.12	Converter	90	- 7.3		-	-		to Type 10	C7- G .	8000	0.24	106
1C7-G	Converter a Pentagrid Converter o	D8	D.G.	2.0	0.12	Converter	135 180	- 3.0 - 3.0	67.5 67.5	2.5	1.3	600000 700000	Anode-Gri 4.0 ma. O: Conversion	scillator-G	rid (# 1)		1C7-G
IDS-GP	Remote-Cutoff Pentode	Dâ	D.C.	2.0	0.06	Class A Amplifier	90 180	- 3.0 min.	67.5 67.5	0.9	2.2	1.08	720 750			-	1D5-G
1D5-GT	Rezuote-Cutoff Tetrode	DR	D.G.	2.0	0.06	Class A Amplitier	180	- 3.0	67.5	0.7	2.2	600000	650		-	-	1D5-G
1D7-G	Pentagrid Converter o	DR	D.C.	2.0	0.06	Converter			F	or other c	haracteri	stics, refer	to Type 1A	ьб.		-	1D7-G
1D8-GT	Dinde-Triode- Power Pentode	C2c	D.C.	1.4	0.10	Pentodo Unit as Class A Amplifier Triode Unit as Class A Amplifier	45 90 45 90	- 4.5 - 9.0	45 90	0.3	1.6 5.0 0.3	300000 200000 77000 43500	650 925 325 575	25 25	20000 12000	0.035	1D8-G
1DN5	Diode Remote-Cutoff Peulode	80	F	1.4	0.5	Triode Unit us Class A Amplifier	67.5		67.5	0.55	2.1	600000	630	_		_	1DN5
1E5-GP	HF Amplilier Pentode	D8	D.C.	2.0	0.06	Class A Amplifier	90	- 3.0 - 3.0	67.5	0.7	1.6	1.09	600 650	_			1E5-GI
IE7-GT	Twin-Pentode Power Amplifier	C2c	D.C.	2.0	0.24	Class A Ampliliar	135	- 7.5	135	_			for one to		24000	0.575	IE7-G7
1E8	Pentagrid Converter	A	F	1.25	0.04	Converter	45 67.5	0	45 67.5	1.1	0.6	400000	Oscillator Conversion	Grid (n 1)	Resistor,	0.1 meg.	1E8
1F4	Power Amplifier Pentode	D159	O.C.	2.0	0.12	Amplifier				-	-		to Type 1F				IF4
1F5-G	Power Amplifier Pentode	Olle	D.C.	2.0	0.12	Class A Amplifier	90 135	- 3.0 - 4.5	90 135	1.1	4.0	240000 200000	1400 1700		20000 16000	0.11 0.31	IF5-G
1F6	Duplex-Diode Pentode	D9	D.C.	2.0	D.06	Pentode Unit as Amplifier	100						to Type 1F	7-G.	100110	0.01	1F'6
1F7-G	Duplex-Diode Pentode	D8	D.C.	2.0	0.06	Pentode Unit as Class A Amplifier	180	- 1.5	67.5	0.7	7.2	1.08	650				1F7-G
1G3-GT/ 1B3-GT	Half-Wave Rectifies	C10	۶	1.25	0.2	Pulsed Rectifier in TV Receivers HV Rectifier in	Max Max	Peak Inver Peak Plate Peak Inver	Ma., 50 se Plate			Max. At	terage Plate				1G3-GT 1B3-G1
1G4-GT	Mediam-Mu	C2c	a.c.	1.4	0.05	RF Power Supplies Class A Amplifier	Max 90	Peak Plate	Ms., 30		2.3	Frequen 10700	cy Range of	Supply V 8.8	oltage. I.	10 100 Kc	1G4-G1
1G5-G	Power Amplifier	Dite	D.C.	2.0	0.03	Class A Amplifier	90	- 6.0	90	2.5	8.5	133000	1500	21.0	8500	0.25	1G5-G
1G6-GT	Pentode Twin-Triade	C20	D.C.	1.4	0.12	Closs B Amplifier	135	-13.5 0	135	2.5			s for one to		9000	0.55	1G6-G1
1H4-G	AmpHiller Detestor# Amplifier	DR	D.C.	2.0	0.10	Class A Amplifier Class B Amplifier	135	- 9.0 -15.0			3.0	10300	to-plate los	9.3	12000 8000	2.1†	1H4-G
1H5-GT	Diode High-Mu Triode	C3	D.C.	1.4	0.05	Triode Unit as Class A Amplifier	90	0			0.15	240000	275	65			1H5-G
1H6-G	Duples-Diode Triode	D3	D.C.	2.0	0.06	Triode Unit as Class A Amplifier	135	- 3.0	_	_	0.8	35000	575	20			1H6-G
1.33	Half-Wave	D2	F	1.25	0.2	Pulsed Rectition in	M	lax. Peak l			26000 (Ab ₄ .)	Max. A	verage Pla	te Ma., 0,	5	1J3
1J5-G	Power	Dile	D.C.	2.0	0.12	Class A Amplifier	135	- 16.5	late Ma.	2.0	7.0	105000	950		13500	0.45	1J5-G
1J6-G	Pentude Twin-Triode	CID	D.C. F	2.0	0.24	Class B Amplifier	135	0			Pov	er Output	is for one !		10000	2.1	1J6-G
1]6-GT	Amplifiers Half-Wave					Pulsed Rectifier in	135 M	- 3.0	overse Pi	late Volta			to-plate los		100000	1.9	1J6-GT
1K3	Rectifier RF Amplifier	C10	F D.C.	1.25	0.2	TV Receivers		ax. Peak I			2.9	600000	926	verage Pla	te M18., 0.	a	1K3
1L4	Pentode	80	F	1.4	0.05	Class A Amplilier	90	ō	90	2.0	4.5	260000	1025	d (# 2): 90	may wol	ts. 1.2 me	1L4
1L6	Pentagrid Converter o	B0	n.c.	1.4	0.05	Converter	90	0	45	0.6	0.5	650000	Oscillator	Grid (#1) Resistor	0.2 meg.	1L6

RCA Type	Name	Tube Di- men- sions		ithode ind Rai		Use Values to right give aperating conditions and characteristics for indicated typical use	Plate Sup- ply	Grid Blas =	Screen Sup- ply	Screen Cur- rent	Plate Cur- rent	AC Plate Resis- tance	Trans- conduc- tance (Grid-Plate)	Amplifi- cation Factor	Load for Stated Power Catpal	Power Out- put	RCA Type
		sions	C. T.	show	Amp.	nautorau rypitai use	Yolis	20lo¥	VoRs	Ma.	Ma	Ohms	"mhos		Dhans	Walls	
1LA4	Power Amplifier Pentode	B 5	D.C.	1.4	0.05	Amplifier			Fo	or other c	haracteri	stica, refer t	o Type 1A	.5-GT.			1LA4
1LA6	Pentagrid Converter v	13.5	D.C.	1.4	0.05	Converter	90	0	454	0.6	0.55	750000	Oscillator	Grid (#1) Resista	ts, 1.2 meg.	1LA6
1LB4	Power Amplifier Pentade	£6	D.G.	1.4	0.05	Class A Amplilier		F	or other c	haracteris	tics, refe	r to Pentod					1LB4
1LC5	Sharp-Cutoff Pentade	65	D.C.	1.4	0.05	Class A Amplifier	45 90	0	45 45	0.35	1.10	700000	750 775	=	=		1LC5
1LC6	Pentagrid Converter a	B5	D.C.	1.4	0.05	Convertor	45 90	0	35 35	0.75	0.70	300000 550000	Oscillato	rid (\$ 2): 50 r-Grid (\$ 1 on Transco) Resistor	, 0.2 meg.	1LC6
1LD5	Diode-Pentode	85	D.C. F	1.4	0.05	Pentode Unit as Class A Ampliller		Supply, 90				s resistor.					1LD5
1LE3	Medium-Mu Triode	85	D.C.	1,4	0.05	Class & Amplifier	90 90	- 3			4.5	11200	1300 760	14.5			1LE3

Light Face = Discontinued type

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

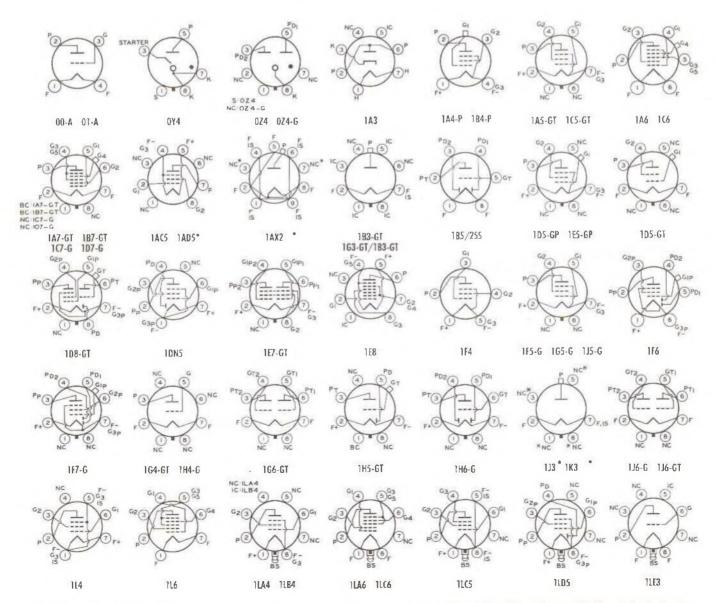
Two vertical rules before or after type No. = Metal type.

Three vertical rules before or after type No. - Ministure type baving either ? or 9 pins.

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

- Either ac or de may be used on filament or heater, except as specifically noted. For use of de on ac filament types, decrease stated god volts by ½ (approx.) of filament voltage.
- 6 Grids 3 and 4 5 are screen. Grid 4 4 is signal input control grid.

- Supply voltage applied through 20000-ohm voltage-dropping resistor.
- Obtained preferably by using 70000-ahm voltage-dropping resistor in series with a 90-volt supply
- § Megulinas.
- For two tubes.
- f Power output is for two tubes at stated plate-to-plate load.
- * For Grid-leek Detection—plate volts, 45; grid return to + filament or to cathode.
- a 50000 ohms



March Marc	RCA Type	Name	Tube Di- men-		athode and Rat		Use Values to right give operating conditions and characteristics for	Plate Sup- ply	Grid Bias m	Screen Sup- ply	Screen Cur- rent	Plate Cur-	AC Plate Resis-	Trans- conduc- tance (Grid-plate)	cotion	Lood for Stated Power Carps I	Power Out- put	RCA
			sions	-	_	1	imdiscaled typical use										Watts	.,,,,
High-Man Traingle 10 10 10 10 10 10 10 1	ILG5		86		1.4	0.05	Class A Amplifier											1LG5
1. May	LH4		B5	D.C.	1.4	0.05				Fo	r otber el	haracteri	stics, refer t	o Type II	H5-GT.			1LH4
No. Properties March Mar	LN5	Sharp-Cutuff	B5		1.4	0.05		90	0	90.	0.35	1.6	1.18	800	_	_		1LN5
Marche Property December Property December Property December Property	15-GT	Sharp-Cutoff	C3	D.C.	1.4	0.05	Class A Amplifier	90	0	90	0.3	1.2	1.56	750		-	-	1N5-G
19-90 Part	N6-G	Diode-Power	Di	D.C.	1.4	0.05	Pentode Unit as	90	- 4.5	96	0.7	3.4		800		25000	0.1	1N6-C
190 190	-	Remote-Cutoff	1	D.C.	-											-	-	1P5-G'
Property Table Property Pro		Beam	-	-	-			-		-		-				2000	0.00	
Converted			-	F	-	-									l Resistor.			1Q5-G
			-	F	-			90	0	67.5	3.2	1.6	600000	Conver		cond , 300	muhoe.	1R5
		Pentode		F	-	-		9:0	- 7.0	67.5	1.4	7.4	100000	1575	olu 00 u c	8000	0.27	154
Pentrude				F	1.4	0.05		3.1 m	eg. resistor	Grid Bia	rs, 0 volts	. Grid F	desistor, 10	megohma.				155
Property Table Prop	174	Pentade	80	F	1.4	0.05	Class A Amplifier								_		-	1T4
11 11 12 13 14 15 15 15 15 15 15 15	r ₅ -GT	Power Tabe	C2e	D.C.	1.4	0.05									-	14000	-0.17	175-G7
Printede	1T6	Pentode	A	F	1.25	0.04												116
1.5 Martine 10 1 1 1 1 1 1 1 1	1U4		80	D.C.	1.4	0.05	Class A Amplifier	90	0	90	0.50	1.0	1.0%	900		-	_	1U4
	1U5	Diode-Pentade	80	O.C.	1.4	0.05		67.5	0	67.5	0.4	1.6	600000	625	_	-	_	105
Max. Pack Name Na	1-v		D6	н	6.3	0.3	With Capacitive-), 325	Min. To	tal Effectiv	e Plate-Si	upply Imp	edance: L	Jp to III	1-v
Mar. Para lawren plant Volta, 1900 Mar. Average Plant Maj. 1 Maj. View Big. View	1V2	Half-Wave	BQ:t	F	0.625	D.3	Pulsed	Ma	z. Peak Int	verse Plate	Volts, 7.						T.J VALIDITA.	1V2
Marchine	X2-A	Half-Wave	84	F	1.25	0.2	Pulsed Rectilier in	Ma	z. Peak In	vetse Plate	Volts, 1	8000						1X2-A
Additional Content		Hulf-Wave	Ba	F			Pulsed Rectifier in	Mex.	Peak Inver	rec Plate 1		00 (Abso	olute Value)					1X2-B
AA-G. Globel-clarge					1445	0.2				Ma., 45	_	60.0	800					IAL-D
2A6	2A3		E3a	F	2.5	2.5								-	1			2A3
Power Amplifier Part Power Amplifier Part Power Amplifier Power Amplifie	A4-G		D3	D.C.	2.5	2.5		Max	x. Peak Inv	erse Anod	le Volte,	200				1.25 amp	pere	2A4-G
Product-Binder Doc Product P	2A5	Power Amplifier	D12a	-	2.5	1.75	Amplifier	146.0	A. FEAR POI			-				art aniber	c	2A5
Part		Duplex-Diode	ne ne				Triede Unit as			_							_	2A6
Converter Conv											_	_	_	-				
24 24 25 26 26 26 26 26 26 26	ZAI	Converter a	Da	-	4.3	0.8		80	Cath									2A7
Duplet-Diode Portunde Portu	AF4-A	Medium-Mu Triode	Bo	He	2.35	0.6		100	3	so ohms			2130	7500	16	400		2AF4-A
Pentude Secretary Secret							at 950 Me.	100				22					lts	
Care	2B7	Pentude	D9	Н	2.5	0.8				For	other ch	aracteria	tics, refer to	Type 6E	88-G.		_	2B7
Tetroide Section Page	BN4		BO	Hø	2.3	0.δ	Class A Amplifier	150		-	-	9	6300	6800	43			2BN4
Tube	CY5		BO	He	2.4	0.6	Class A Amplifier	125	1	80	1.5	10	100000	8000	-			2CY5
Twin Diouble He	2 E 5		D5	н	2.5	0.8				For	other ch	aracteris	tics, refer to	Type 6E	5.			2E5
Half Wave Half	EN5	Twin Diode	90	Не	2.1	0.45	Horizontal					200			Max.	DC Plate	Ma., 5	2EN5
Age	3A2	Half-Wave	P4	н	3.75	0.22	Pulsed Rectifier in	Max.	Peak Inven	se Plate V		00						3A2
Start Cuttor Star		Half-Wave	-				* * 2 EVENT * * * 110				'alts, 300f	00						3A3
Red	3743		Di	п	3.13	0.22				Мн., 80		0.0	202000 1			Platc Ma.	1.5	3/13
Class A Amplifier 100 Cathode Biss Res. 16 2270 6500 15 20 2130 7500 16 20 2130 7500 16 20 2130 7500 16 20 2130 7500 16 20 2130 7500 16 20 2130 7500 16 20 2130 7500 16 20 2130 7500 16 20 2130 7500 16 20 2130 7500 16 20 2130 7500 16 20 2130 7500 16 20 2130 7500 16 20 2130 7500 16 20 2130 7500 16 20 2130 7500 16 20 2130 7500 16 20 2130 7500 16 20 2130 7500 16 20 2130 7500 2150 20 2130 7500 2150 20 2130 7500 2150 20 2130 7500 2150 20 2130 7500 2150 20 2130 7500 2150 20 2130 7500 2150 20 2150 2	R-GT	RF Amplifier	C5	D.C.			Class A Amplifier								0.5			3A8-GT
All He 3.2 0.45 Class A Amplifier 100 150 obms 20 2130 7500 16		Pentode	- 0			-									15			
3ALS Twin Diode	F4-A	Medium-Mu	At	He	3.2	0.45	Class A Amplifier		15	50 ohms			2130	7500	16	400		3AF4-A
Sharp-Cutoff Pentode Sharp-Cutoff Pentode Sharp-Cutoff Pentode Sharp-Cutoff Pentode Sharp-Cutoff Pentode Sharp-Cutoff Pentode Sharp-Cutoff Shar		13.000							Grid Re	s., 10000 c	bms	22	Usef	ul Power	Output, 16	0 milliwat	ts	
SAV6	AL5		Al	Hø	3.15	0.6		M	lax. Pcak P	late Ma.	per Plate,		Max.	Peak Hes	ter-Cathoo	de Volts, 3		3AL5
High-Mir Triode Starp-Cutoff Pentageid Augulifier Starp-Cutoff Starp-Cu	AU6	Pentode	80	He	3.15	0.6		250	Bias			10.6	1.05	5200	Cath. Bis			3AU6
Back	AV6		60	He	3.15	0.6	Triode Unit as Class A Amplifier				=				100			3AV6
Sharp-Cutoff Pentode B0 He 3.15 0.6 Class A Amplifier 250 Cath Bins	B2	Half-Wave	E12	н	3.15	0.22	Pulsed Rectifier	Max.	cak Plate		erse Plat	-	Maz. DO	Inverse	Plate Volta		Ia., 1.1	3B2
Sharp-Cutoff Fortion Bi	BC5	Sharp-Cutoff	80	He	3.15	0.6			Cath.				1					3BC5
Sharp-Cutoff Pentagrid Amplifier Bo He 3.15 0.6 Class Amplifier 100 1 67.5 3.3 2.2 Grid-No. 3 Volts, cach section. 0	BN6	Beam	81	He	3.15	D.6	Limiter and		ax. DC Pla									3BN6
Twin Pentode Sync Separating Grid current adjusted for 100 microsmperes DC.							Class A Amplifier	100	ar. Peak H	67.5	ნ.5	-1	Grid	-No. 3 Vo	lts, each so	nction, -1		
Amplifier Semiremote Bu	508	Twin Pentode	Bla	н	3.15	0.6	Operating	100								ection, U		3BU8
Cutoff Pentode 80 Me 3.15 0.6 Class A Amplifier 200 Cath Elas 150 2.8 9.5 600000 6200 Cath Bias Res. 180 ohm	BY6	Amplitier	Bo	He	3.15	0.6	Sync Separator and Sync Clipper	10		25	3.5	1.4		Grid-l	No. 3 Volts	, 0		3BY6
3CB6 Sharp-Cateff 80 He 3.15 0.6 Class A Amplifier 200 Cath. Bias	BZ6		B10	He	3.15	0.6	Class A Amplifier	200		150	2.6	11	0.65	6100	Cath. Bis	ns Res., 18	emdo 08	3 BZ 6
3CF6 Sharp-Cutoff Pentode 80 Me 3.15 0.6 Class A Amplifier 200 - 6.5 150 2.8 9.5 660000 6200 Cath. Bias Res., 180 ahm Sync Separator and Sync Clipper 10 - 30 4.5 2 Grid-No. 3 Volts, 0 Grid-No. 3 Volts, 0 Grid-No. 1 Volts, 0 Grid-No. 3 Volts, 0 Transcend. 1500 ahm Grid-No. 3 Volts, - 1 Transcend. 1500 ahm Grid-No.	CB6	Sharp-Cutoff	80	He	3.15	0.6	Class A Amplifier	200	Cath.	150	2.8	9.5	600000	6200	Supply Impedance: Up to 117 30 ohms; at 325 volts, 75 ohms. Plate Ma., 0.5 Plate Ma., 1 ax. Average Plate Ma., 0.5 4.2 2500 3.5 5000 10.04 3000 15.04 ode Current, 1.25 ampere de Current, 0.1 ampere F6-G. SQ7. A8. 15 16 16 16 16 17 18 18 19 19 19 10 10 10 10 10 10 10 10 10 10 10 10 10	3CB6		
Sync Separator and Sync Clipper 10 — 30 4.5 2 Grid-No. 3 Volts, 0 — Grid-No. 1 Volts, 0 Grid-No. 1 Volts, 0 — Grid-No. 1 Volts, 1 Transcord. 1500 embos Grid-No. 1 Volts, 0 — Grid-No. 3 Volts, 0 — Gr	CF6	Sharp-Cutoff	80	He	3.15	0.6	Class A Amplifier	200		150	2.8	9.5	600000	6200	Cath. Biz	as Res., 18	emdo D	3CF6
3CS6 Produgrid B0 He 3.15 0.6 Class A Amplifier 100 - 1 30 5.5 0.8 700000 Grid.No. 3 Volts, -1 Transcord. 1500 ambox Grid.No. 3 Volts, 0 Grid.No. 3 Volts, 0								10		30	4.5	2						
Transcond , U μπποds	CS6		B0	He	3.15	0.6		100		30	5.5	0.8	700000	-	Transcor Grid-l	nd . 1500 i No. 3 Volt	umahos s, 0	3CS6
3CY5 Sharp-Gutoff BO No 2.9 0.45 Class A Amplifier 125 - 1 80 1.5 10 100000 8000 — —	CY5		BO	He	2.9	0.45	Class A Amphiline	125	- 1	80	1.5	10		8000	4 (81)80	Jana , o pr		3CY5

RCA Type	Name	Tube Di- men-		ithode		Use Values to right give aperating canditions and characteristics for	Plate Sup- ply	Grid Bias III	Screen Sup- ply	Screen Cur- rent	Plate Cur- rent	AC Plate Resis- tance	Trans- conduc- tance Gid-Plate	Amplifi- cation Factor	Lood fer States Perver Output	Power Out-	RCA Type
		sions	C. T.	Volts	Анир.	indicated typical ase	¥rd1s	Volts	Valis	Ma,	Ma.	Ohms	_ mbos		Ohms	Watts	
3DK6	Sharp-Cutoff Pentrole	80	не	3.15	0.6	Class A Amplifier	125	Cath. Bias	125	3.8	12	350000	9800	Coth. B	ias Res., !	56 ohms	3DK6
	Sharp-Cutoff					Class A Amplifier	150	Cath. Bias	100	2.1	1.1	150000	615	Cath. Bi	as Res., 56	50 ohms	
3DT6	Pentiwle	80	Ha	3.15	0.6	FM Detector	250	Cath. Bigs	100	5.5	0.22	Grid-No.		6: Cath. Resistor, 27			3DT6
3LF4	Ream Power Tube	85	D.C.	1.4	0.1	Class A Amplifier			For	other cha	aracterist	ics, refer to	Type 3Q5	-GT.			3LF4

Light Face - Discontinued type

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

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

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

For key to tube dimensions and, legend for base and envelope connection diagrams, see page 37.

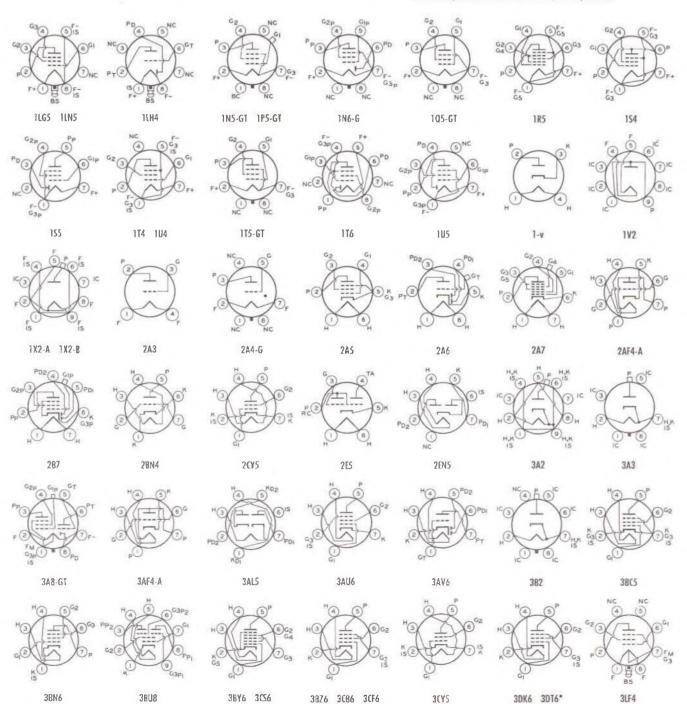
- Either ac or dc may be used on filament or heater, except as specifically noted. For use of dc on ac filament types, decrease stated grid volts by ½ (approx.) of filament voltage.
- Heater has controlled warm-up time for series string operation.

- ▲ Grids = 2 and # 4 are screen. Grid = 3 is signal-input control grid.
- Grids = 3 and = 5 are screen. Grid = 4 is signal-input control grid.

Note 1: Subscript 1 on class of amplifier service (as AB_0) indicates that grid current does not flow during any part of input cycle:

- § Megohms.
- For two tubes.

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



RCA Type	Name	Tube Di- men- sions	a	thode nd Rat	ing	Use Values to right give apperating conditions and characteristics for indicated typical use	Plate Sup- ply	Grid Bios =	Screen Sup- ply	Cur- rent	Plate Cur- rent	AC Plate Resis- tance	(Grid-plate)	cation	Load for Stated Power Output	Power Out- put	RCA
3Q4	Power Amplifier	BO	C. T.	Volas 1.4	Amp.	Class A Amplifier	Yolls	Volts	Yalls	Ma For other	Ma.	Ohins ristics, refer	to Type 3	1 V4	Ohms	Watts	3Q4
3Q5-GT	Pentode Beam	C2c	D.C.	2.8	0.05		110	- 6.5	110	1.4	10.0	100000	2200		8000	0.40	
	Power Tube Power Amplifier	_	F	2.8	0.05	Class A Amplifier	90	- 6.6	110 67.5	1.1	8.5	110000	2000 1575		8000	0.33	3Q5-G
354	Pentade Power Amplifier	B0	D.C.	2.8	0.05	Class A Amplifier	90	- 7 - 4.5	67.5	2.1	9.5	100000	1425 2150	_	10000	0.235	354
3V4	Pentade	BO	D.C.	2.8	0.05	Class A Amplifier	90	- 4.5	90	1.7	7.7	120000	2000	=	10000	0.24	3V4
4AU6	Sharp-Gutoff Pentode	80	He	4.2	0.45	Class A Amplifier	100 250	Cath. Bias	100 15D	2.1 4.3	5 10.6	500000 1 §	3900 5200		ias Res., 1 ias Res.,		4AU6
4BC5	Sharp-Cutoff Pentode	Bu	He	4.2	0.45	Class A Amplifier	250	Cath. Bias	150	2.1	7.5	800000	5700	Cath. B	ias Res., 1	80 oluns	4BC5
4BC8	Medium-Mu	BOo	Не	4.2	0.6	Each Unit as	150	Cath.	Res., 220	emdo	10		6200	35			4BC
4BN6	Twin-Triode Beam Tube	B1	He	4.2	0.45	Class A Amplifier Limiter and	Max.	DC Plate	Volts, 300) N		hode Ma., I	1.5.	Max. Gri	d-No. 2 V	olta, 100	4BN
4BQ7-A	Medium-Mu	-	-			Discriminator Each Unit as		Positive-P	eak Grid- ide Bias I					ak Heater		Volts, 90 o. 1 Volts	
A-IDae	Twin-Triade	Billio	Hø	4.2	0.6	Class A Amplifier Cascode Amplifier	150	- 1	20 ohms	_	9.0	6100	6400 10000	39	for Cut	υff, -10	4BQ7
4B58	Medium-Mu Twin Triode	Búa	Hø	4.5	0.6	Each Unit as	150	Cath.	_		10	5000	7200	36		ias Res	4BS
		-		-		Class A Amplifier	100	Bias	67.5	6.5	-			rolts, each		ohins 10	
4BU8	Sharp-Cutoff Twin Pentode	B1a	He	4.2	0.45	Class A Amphilier (With both sections	100	1	67.5	3.3	2.2			olts, each			4BU
						operating;			d current	adjusted	for 100 n	nicroamper	es DC				
4BZ6	Semiremute- Cutoff Pentade	80	Hø	4.2	D.45	Class A Amplifier	200	Cath. Bias	150	2.6	21	600000	610D	Cath. B	ias Res., 1	emda 08.	4BZ(
4BZ7	Medium-Mu Twin-Triade	809	He	4.2	0.6	Each Unit as Class A Amplifier	150		de Bias I	₹ся.,	10	5600	6800	38		off, 10	4BZ
4CB6	Sharp-Cutoff Pentode	80	Hø	4.2	0.45	Class A Amplifier	200	Cath. Bias	150	2.8	9.5	600000	6200	Cath. B	ias Res., I		4CB
	EATORE					Syne Separator	10	DIRE	30	4.5	2		No. 3 Vol				
4055	Pentagrid				0.45	and Sync Clipper	10		30	****	-	Grid	No. I Vol		No. 3 Volt	s, -1	4650
4C56	Amplifier	BO	He	4.2	0.45	Class A Amplifier	100	- 1 0	30 30	5.5	0.8	700000 1 §	1100		ond., 1500 d-No. 3 V		4C56
	21 E . m							Cath.						Trans	ncond., D	mbos	
4DE6	Sharp-Cutoff Pentode	B0	He	4.2	0.45	Class A Amplifier	200	Bias	150	2.8	9.5	500000	6200		ias Res., 1		4DE
4DT6	Sharp-Cutoff	BO	He	4.2	0.45	Class A Amplifier	150	Cath. Bias		2.1	1.1	150000 Grid-N	515 o. 3 Volts.	Cath. B -6; Cath	ias Res., 5		4DT
	Pentade.					FM Detector	250	Rias	100	5.5	0.22			ad Resistor			
4EW6	Sharp-Cutoff Pentode	BO	Hø	4.2	0.6	Class A Amplifier	125	Cath. Bias		3.2	H	200000	14000		ias Res., S	6 ohms	4EW
5AM8	Diode— Sharp-Cutoff	B0a	He	4.7	0.6	Dinde Unit Pentode Unit as		Max. D	C Plate N			Мах. Реак				20 1	5AM
artivio	Pentade	,		,		Class A Amplifier	200	Bias	150	2.7	11.5		7000	Cath. B	as Res., 1	20 ohtna	
5AN8	Medium-Mu Triode—	802	He	1.7	0.6	Triode Unit as Class A Amplifier	200	— б			13	5750	3300	19			5AN
Dritten.	Shurp-Cutoff Pentada	202		167	0.0	Pentode Unit as Class A Amplifier	200	Cath. Bias	150	2.8	9.5	300000	6200	Cath. B	ias Res., 1	smda 08	SAIT
	Benn Power					Single Tube Class A Amplifier	180 250	- 8.5 - 12.5	18U 250	3.0 4.5	29.0 45.0	58000 52000	3700 4100		5500 5000	2.0 4.5	
5AQ5	Tube	B1	He	4.7	0.6	Push-Pull	250	-15	250	5.04	70♠	60000			10000	101	5A Q
						Class AB, Amplifier With Copacitive-	Max.	AC Volta pe	er Plate (RMS), 55	Max.	DC Output	Ma., 300	Min To	tal Effect.		
5AS4 5AS4-A	Full-Wave Rectifiers	E3	Н	4.7	3.0	Input Filter With Inductive-		Peak Invers AC Volts pe				Peak Plate DC Output			ner Plate, lue of Inp		5AS
	D. 1					Input Filter	Max.	Peak Invers	e Volts, 1	1350	Max.	Peak Plate Peak Plate I	Ma., 1000		10 henries	5	
5AS8	Diode— Shurp-Cutoff	BOn	He	4.7	0.6	Diode Unit Pentode Unit as	200	Cath.	150	3.0	9.5	300000	6200		ias Res , I		5AS
	Pentode	-	-	_		Class A Amplifier Triode Unit as	-	Bias Grid Res	istor, 270		510	0.0000		Current, 13			
5AT8	Triode— Pentode	B Da	He	4.7	0.0	250 Me. Oscillator	150	Grid Cur	rent, 3.6 2 Volts,	Ma.		Oog V	Power	Output (A	пртох.), О		5AT
3410	Converter	0.0		7.7	0.0	Pontode Unit as Mixer√	150	Mixer G	rid-No. 1	Supply V	olts, -3	5 Mixer	Grid-No.	Resistor,	120000 nh	nms	
	Medium-Mu	-				Triode Unit as	1100	- 6	rrent. 6.2	IVI a.	13	5750	3300	aconducta 19	nce, 2100	μπιπος	
5AV8	Triode Sharp-Cutoff	Boa	Не	4.7	0.6	Class A Amplifier Pentode Unit as	200	Cath.						1.9	Cath B	iнs Res.	5AV
	Pentode Full-Wave			_		Class A Amplifier	200	Bias	150	2.8	9.5	300000	6200			oppis	
5AZ4	Rectifier	C2	F	5.0	2.0				For ra	tings and	characte	ristics, refe	r to Type	SY3 GT.			5AZ
rmo.	Medium-Mu Triode		-			Triode Unit as Class A Amplifier	200	- 6	-	_	13	5750	3300	19	_	_	rma
5B8	Sharp-Cutoff Pentode	B0a	He	4.7	0.6	Pentode Unit as	200	Cath.	150	2.8	9.5	300000	6200	Cath. Bi	as Res., 1	RO ahms	5B8
	Medjum-Mu	-				Class A Amplifier Triode Unit us	1	Bias Bias			18	5000	8.500	40			
5BE8	Triode-	EDa	He	4.7	0.6	Class A Amplifier Pentode Unit as	150	Cath. Bia									5BE8
	Pentodo					Class A Amplifier	250	Bias	Bias Re	3.5	10	400000	5200	Cath. B	ias Res., 6		
SBK7-A	Medium-Mu Twin Triode	800	He	4.7	0.6	Class A Amplifier	150	5	ohins of		18	4600	9300	43	for Cuto	Ff, - 10	5BK7-
5B Q7-A	Medium-Mu Twin Trinde	BGa	He	4.7	0.45	Class A Amplifier	150		. Biss Re 20 ohms	R.,	9	6100	6400	39	Grid-No.		5BQ7-
	Medium-Mu					Triode Unit as Class A Amplifier	150	Cath. Bias			18	5000	8500	40	Cath. Bi		
5BR8	Triede Sharp-Cutoff	B0a	He	4.7	0.6	Pentode Unit as	250	Cath.	110	3.5	10	400000	5200		Cath. Bi	as Ros.	5BR
	Pentode Twin-Diode-		-			Class A Amplifier		Bias							68 p	hma	
SBT8	Sharp-Untoff Pentode	BDa	He	4.7	0.6	Class A Amplifier	200	Cath. Bias	150	2.8	9.5	300000	6200	Cath. Bi	as Rcs., 11	80 ohns	5 BT 8
	- mode					Triole Unit as	150		istor, 270					Current, 1.		6	
						250-Me Oscillator	- 20	Conversion		nductance	:, 2100 µ	nhos Plat	te Current				
5CG8	Triade Pentode	B Oa	не	4.7	0.6	Pentode Unit As Mixer	150	Grid-No. 1 Mixer Gri	Valts, 1	50		Oac	Volts at I	Mixer Grid			5CG
2440	Converter	_00		7./	นเท	Triode Unit as	100	Cath.			8.5	6900	5800	40	Cath. Bi	iaa Res.,	
						Pentode Unit as	250	Bias Cath,	150	1.6	7.7	750000	4600	-	Cath. Bi	as Res.,	
	34-4: 34					Class A Amplitier Triode Unit as		B:as Cath.	130	1.13					200 c	emdo	
5CL8	Medium-Mu Triude	BDa	He	4.7	0.6	Class A Amplifier	125	Bias	_	-	15	5000	0008	40	55 of	hme	5CL8
5CL8-A	Sharp-Cutoff	200			0.0	Tetrode Unit as	125	- 1	125	4	12	100000	Transcor	id. 5800 pr	ulios fra 5	CT.8	SCL8-

RCA Type	Name	Tube Di- men-		thode		Use Yalus to right give age taking conditions and characteristics for Indicated hydroal use	Plate Sup- ply	Grid Bias =	Screen Sup- ply	Screen Cur- rent	Plate Cur- rent	AC Plote Resis- tance	Trans- conduc- tance Grid-Plate:	Amplifi- cation Factor	Load for Stated Power Dotput	Pawer Oul- pul	RCA Type
		sions	C. T.	Volts	Amp.	HIDKUISU TYDICUI VAC	Velts	zHaV	2004	Ma.	Ma	Ohms	_mhos		Ohres	2llsW	
50840	High-Mu Triode—	809	He	4.7	0.6	Triode Unit as Class A Amplilier	250	- 2	-	-	1.8	50000	2000	100		-	5CM8
5CM8	Shuxp-Cutoff Pentode	809		4.7	0.6	Pentode Unit as Class A Amplifice	200	Cath. Biss	150	2.8	9.5	600000	6200	Cath. Bi	as Rcs., 1	80 ohms	SCIVIS
5000	Medium-Mu Triode	80a	He	4.7	0.6	Triode Unit as Class A Amplifier	125	Cath. Bias	-	-	15	5000	8000	40		ias Res bnis	5C Q8
5CQ8	Sharp-Cutoff Tetrode	804		4.7	0.0	Tetrade Unit as Closs A Amplifier	125	- 1	125	4.2	12	140000	5800				3C U8
						Vertical Deflection Amplifier		DC Plate V Peak Cath		E40		Max. Plate				0 (Abs.)	
5CZ5	Beam Power	Bla	He	4.7	0.6	Class A Amplifier	250	-14	250	4.6	46	73000	4800		5000	5.4	5CZ5
	Tube					Push Pull Class AB Amplifier	350	23.5	280	3	46	_		-	7500	21.5	

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

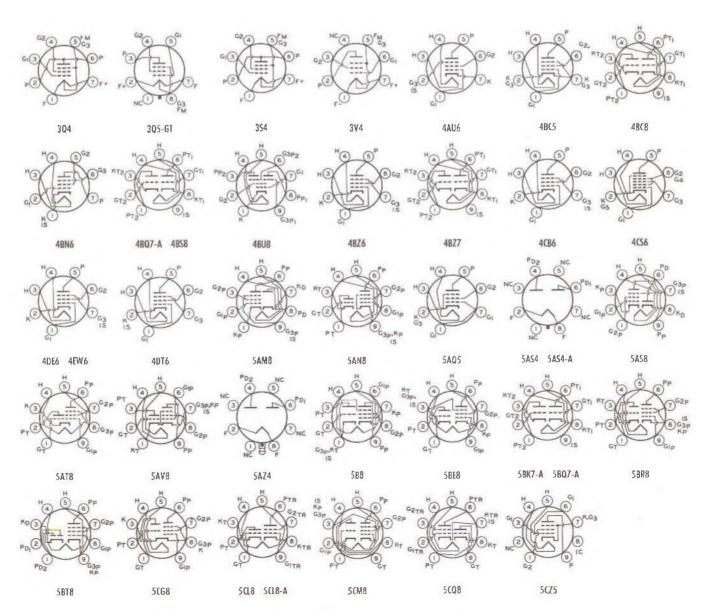
Three vertical rules before or after type No. - Miniature type having either 7 or 9 pins.

Light Face = Discontinued type.

- Either ac or de may be used on filament or heater, except as specifically noted. For use of de on ac filament types, decrease stated grid volts by ¼ (approx.) of filament voltage.
- · Heater has controlled warm up time for series-string operation.

Note 1: Subscript 1 on class of amplifier service (as AB₂) indicates that grid current does not flow during any part of input cycle.

- § Megohma.
- A For two tubes.
- † Power output is for two tubes at stated plate to plate load.
- √ With separate excitation and triode unit grounded.



RCA) Type	Name	Tube Di- men-		thode		Use Yalues to right give operating tenditions and characteristics for	Plate Sup- ply	Grid Bios a	Screen Sup- ply	Screen Cur- rent	Plate Cur- rent	AC Plate Resis- tance	Trans- conduc- tance (Grid-plate)	Amplifi- cation Factor	Load for Stated Power Dutput	Power Out- put	RCA
Туре	Nume	sions	C. T.	Anjz	Amg	indicated typical use	Yelts	Valts	Volls	Ma	Ma	Olems	nugues (Giran-hease)	1 46101	Ohms	Watts	Туре
536	Medium-Mu Twin-Triode	83	Не	4.7	0.6	Each Unit as Class A Amplifier Push-Pull	100	Cath Ro	Cath. F	Res., 220	8.5		5300 Surrent, 10		=	3.5	5.16
				-		Class C Amplifier With Capacitive-		AC Volts pe		oth units RMS), 450	Max. I	DC Output	Power, 0.3 Ma., 225	Min. Tot	al Effect.		
5T4	Full-Wave Rectifier	07	F	5.0	2.0	Vith Inductive- Input Filter	Мел	Peak Invers AC Volts pe Peak Invers	er Plate (I	RMS), 550	Мал. І	Peak Plate I DC Output Posk Plate I	Ma. 225	Min. Val	er Plate, ue of Inp 3 benries	t Choke,	5T4
5T8	Triple Diode	BDa	Не	4.7	0.6	Triode linit as	100 250	- 1 - 3		_	0.8	54000 58000	1300 1200	70			5T8
5U4-G	High-Mu Triode	E2	F	5.0	3.0	Class A Amplifier With Capacitive-	Max.	AC Voits po				DC Output	Ms., 225	1	tal Effect	Supply	5U4-G
304-0	Rectifier		-	3-0	3.0	Imput Filter With Capacitive-		Peak Inver				Peak Plate I DC Output		Min Tol	er Plate,		304-0
5U4~GB	Full-Wave Rectifier	D12c	н	5.0	3.0	Input Filter With Inductive- Input Filter	Max.	Peak Invers AC Volts pe Peak Invers	se Volts, er Plate (1	1550 RMS), 550	Mex.	Peak Plate I DC Output Peak Plate I	Ma., 1000 Ma., 275	Imped. p Min. Val	er Piate.	emdo 70	5U4-G
	Triode-					Triode Unit as	150	Cath. Bias		1_	81	5000	8500	40	Cath	Res.,	
5U8	Pentode Converter	B02	He	4.7	0.6	Pentodo Unit as	250	Cath. Bias	110	3.5	10	40000	5200		Cath	. Res.,	508
						Class A Amplifier With Capacitive Input Filter	Max.	AC Volta pi Peak Invers	se Volts,	1400			Max. Pe	C Output Mak Plate M	Ma., 350		
5V3	Full-Wave Rectifier	(1126	F	5.0	3.8	With Inductive Input Filter	Max.	AC Volts po Peak Invers	er Plate (RMS), 50 1400	0	ly Imped. p	Max Do	C Output Nok Plate N	vla . 350 Io. per Pl	ate, 1200	5 V 3
	Full-Wave					With Capacitive- Input Filter		C Volts per		MS), 375	Max. D	C Output N	Aa., 175	Min. Tota Imped. pe	Effect.	Supply	
5V4-G	Rectifier	D14c	H	5.0	2.0	With Inductive- Input Filter	Max. A Max. P	C Volts per cak Inverse	Plate (R	MS), 500 400	Max. P	C Output & cak Plate M	đa., 175 ľa., 525	Min. Valu	e of Inpu 4 hencies	t Choke.	5V4-G
EVA CA	Full-Wave	Cila	н	. n	0.0	With Capacitives Input Filter		AC Volts pe Peak Invers				DC Output I Peak Plate I		Min. Tot:			ENIA CA
5V4-GA	Restifier	Lita	n	5.0	2.0	With Inductive- Input Filter		AC Valta po Peak Invers			Max.	OC Output . Peak Plate !	Ma., 175	Min. Vale	ue of Inpu 4 henries	Choke,	5V4-GA
						Single-Tube	250	12.5	250	4.5	45	50000	4100	-	5000	4.5	
5V6-GT	Beam Power Tube	CZe	He	4.7	0.6	Push-Pull	315 250	-13 -15	225	2.2	34 70 4	80000 60000	3750 3750		8500 10000	5.5 10f	5V6-GT
5W4	Full-Wave	C24			-	Class AR: Amplifier With Capacitive-	285 Mar 4	~ 19	285	4.	70 4	70000 C Output N	3600	Min. Tota	8000	141	5W4
5W4-GT	Rectifiers	C4	F	5.0	1.5	Input Filter		cak Invers				eak Plate N		Imped. pe	r Plate, 5	0 obina	SW4-GT
5X4-G	Full-Wave Rectifier	E2	F	5.0	3.0				Fo	r other rat	ings, ref	er to Type 5	5U4-G.				SX4-G
	Triode—					Trinde Unit as 250-Mc. Oscillator	150	Grid Resi Grid Curr						urrent, 13 Datput (Ap		5 Watt	
5X8	Pentode Convecter	90a	на	4.7	0.6	Pentode Unit us Mixer√	150	Grid-No. Mixer Gr Plate Cur	2 Volts,	Supply Vo	its, -3.	5 Mixer	olts at Mi Grid-No.	ixer Grid-N 1 Resistor, sconductar	10. 1 (RM	IS), 2.6 hms	5X8
5Y3-G 5 Y3-GT	Full-Wave Rectifiers	Dile C4	F	5.0	2.0	With Capacitive- Input Filter With Inductive- Input Filter	Max. F	enk Inverse	e Volts, 1 Plate (R	100 MS), 500	Max. P.	C Output A cak Plate M C Output A cak Plate M	fa., 440 fa., 125	Min. Tot Imped. po Min. Valu	er Plate, S	ohms	5 Y 3- G5Y 3- GT
5Y4 G 5Y4-GT	Full-Wave Rectifier-	Ω11e	F	5.0	2.0				Fo	r other rat	ings, rel	er to Type S	Y3-GT.				5Y4-G 5Y4-GT
5Z3	Full-Wave	EZa	F	5.0	3.0			-	For	other rat	ings refe	er to Type 5	tus-G				5 Z 3
	Rectifier	-	_	*	510	With Capacitive-	Max. A	C Volts per				C Output N		Min. Tota	al Effect.	Supply	0=0
SZ4	Full-Wave Rectifier	C50	н	5.0	2.0	Input Filter With Inductive- Input Filter	Max. P	enk Inverse	Volts, I.	400 MS), 500	Max. P.	cak Plate M C Output M enk Plate M	la., 375 la., 125	Imped pe Min. Valu	r Plate, 5	0 ohms	574
6A3	Power Amplifier Triade	£35	F	6.3	1.0	Amplifier			For	other che	racteríst	ics, refer to	Type 6B4	·G.			6A3
6A4/LA	Power Amplifier Pentode	D120	F	6.3	0.3	Class A Amplifier	100 180	- 6.5 -12.0	100 180	1-6	9.0	83250 45500	1200	_	11000 8000	0.31	6A4 LA
6A6	Twin-Triode	D12a	н	6.3	0.8	Amplifier						tics, refer to	Type 6N:	7-GT.			6A6
6A7	Pentagrid	D9	н	6.3	0.3	Converter			Fo	r other chi	aracteris	tics, refer to	Type 6At	8.			6A7
6A7S 6A8	Converters a	C															6A7S
	Pentagrid	C1				Converter	100 250	- 1.5 - 3.0	50 100	1.3	3.5	600000 36000 0	4.0 ma	Grid (#2) . Oscillator sion Trans	-Grid (#	1) Res '	6A8 6A8-G 6A8-GT
6A8-G	Convertent a	C3	Н	6.3	0.3												
			н	6.3	0.3	Class A Amplilier	100		les., 270 a		3.7	15000	4000 5500	60 60			6AB4
6A8-G 6A8-GT	Converters a	C3				Class A Amplifier Visual Indicator	Plate Grid i	Cath. R & Target Su Biss 10. & Target St	les., 200 n ipply = 1 .0 volta; 5 upply = 1	hms 35 volts. T Bhadow Ar 135 volts.	10.0 riode Pli ngle, 0°. Triode P	10900 ate Resistor Bins, 0 volu late Resistor	5500 - 0.25 me ts; Angle, r - 1.0 me	60 g. Target 0 90°; Plate eg. Target	Current :	0.5 ma. = 1.9 ma.	6AB4 6AB5/ 6NS
6A8-G 6A8-GT 6AB4	Convectors a 10gh-Mu Triode Electron-Ray Tube	C3 BD	н	6.3	0.15	Visual	Plate Grid i	Cath. R & Target Su Biss 10. & Target St	les., 200 n ipply = 1 .0 volta; 5 upply = 1	hms 35 volts. T Bhadow Ar 135 volts.	10.0 riode Pli ngle, 0°. Triode P	10900 ste Resistor Bins, 0 volt	5500 - 0.25 me ts; Angle, r - 1.0 me	60 g. Target 0 90°; Plate eg. Target	Current :	0.5 ma. = 1.9 ma.	6AB5/
6A8-G 6A8-GT 6AB4 6AB5/ 6N5	Converten a High-Mu Triade Electron-Ray Tube Indicator Type Remote-Cutoil	C3 B0	н	6.3	0.15	Visual Indicator Class A Amplifier Class B Amplifier Dynamic-Coupled Amplifier With	Plate Grid I Plate Grid I	Cath. R & Target Su Bias 10. & Target Si Bias 15.5 - 3.0 0 Bias for Average	tes., 200 of apply = 1.0 volts; 5 volts; S 200 both GAC Plate Cu	hims 35 volts. T Bhadow Ar 135 volts. 'hadow Ar 3 · 2	10.0 Friode Plingle, 0°. Triode Prigle, 0°. 12.5 5.04	10900 Bids, 0 volt Arte Resistor Bids, 0 volt 700000 Eveloped in 15.5 milliam	5500 - 0.25 end (x; Angle, r - 1.0 end ts; Angle; 5000 coupling coupling coupl	60 eg. Target (90°; Plate eg. Target 90°: Plate	Current :	0.5 ma. = 1.9 ma.	6AB5/ 6NS
6A8-G 6A8-GT 6AB4 6AB5/ 6N5 6AB7	Converters a High-Mu Triade Electron-Ray Tube Indicator Type Remote-Castoff Pentode High-Mu Power Amplifier Triade Sharp-Cutoff	C3 B0 D4 B3	н	6.3	0.15	Visual Indicator Class A Amplifier Class B Amplifier Dynamic-Coupled	Plate Grid i Plate Grid i 300	Cath. R & Target Su Bias. — 10. & Turget Su Bias. — 15. — 3.0 0 Bias for Average Average Cath.	tes., 200 of apply = 1.0 volts; 5 volts; S 200 both GAC Plate Cu	hims 35 volts. T Bhadow Ar 135 volts. 'hadow Ar 3 · 2	10.0 Friode Plingle, 0°. Triode Prigle, 0°. 12.5 5.04	10900 Bite Resistor Bids, 0 volu late Resistor Bids, 0 volu 700000	5500 - 0.25 end (x; Angle, r - 1.0 end ts; Angle; 5000 coupling coupling coupl	60 eg. Target (90°; Plate eg. Target 90°; Plate	Current Current Current, 10000 7000 c-Biss Re	0.5 ma. = 1.9 ma. 0.13 ms. 	6AB5/ 6NS 6AB7
6A8-G 6A8-GT 6AB4 6AB5/ 6N5 6AB7 6AC5-GT	Converters a High-Mu Triade Electron-Ray Tube Indicator Type Remote-Cutoff Pentode High-Mu Power Amplifier Triade Sharp-Cutoff Pentode Electron-Ray	C3 B0 D4 B3 C22 B3	н н н	6.3 6.3 6.3 6.3	0.15 0.15 0.45	Visual Indicator Class A Amplifier Class B Amplifier Dynamics Coupled Amplifier With 75 Driver Class A Amplifier Visual	Plate Grid i Plate Grid i 300 250 250 300 Target	Cath. R & Target Su Bias 10. & Target Si Bias 15.5 - 3.0 0 Bias for Average Cath. Bias Voltage, 1	les., 200 of apply = 1.0 volts; Supply = 1.5 volts; Supply = 200 both GAC Plate Cull Plate Cull 150 50 volts:	hims 35 volts. T Shedow Ar 135 volts. ' Shedow Ar 3 · 2 5 GT and rect of D recht of 62 2 · 5 Control-R	10.0 Priode Plingle, 0°. Triode P rigle, 0°. Triode P rigle, 0°. 12.5 5.0 176 is de river = ACS-GT 10.0 lectrode	10900 site Resistor Bias, 0 volt fate Resistor Bias, 0 volt 700000 eveloped in a 5.5 milliam 32 milliam 1.08	5500 - 0.25 me ts; Angle, r = 1.0 me ts; Angle 5000 - coupling c peres unperes. 9000 50 volts; S	60 -g. Target 0 90°: Plate eg. Target 90°: Plate fireuit. Cathod 1 Shadow An	Current Current 10000 7000 c-Biss Re 60 ohms gle, 135°;	0.5 ma. = 1.9 ma. 0.13 ms. 0.13 ms. 3.7 sistor.	6AB5/ 6NS 6AB7 6AC5-G1
6A8-G 6A8-GT 6AB4 6AB5/ 6N5 6AB7	Converters a High-Mu Triade Electron-Ray Tube Indicator Type Remote-Cutoff Pentode High-Mu Power Amplifier Triade Sharp-Cutoff Pentode Electron-Ray Tube	C3 B0 D4 B3	н я н	6.3 6.3 6.3	0.15	Visual Indicator Class A Amplifier Class B Amplifier Dynamics Coupled Amplifier With 76 Driver Class A Amplifier Visual Indicator Tricke Unit as	Plate Grid i Plate Grid i Plate Grid i 300 250 250 Target Cur	Cath. R & Target So Bias 10. & Target Si Bias 15.5 - 3.0 0 Bias for Average Average Cath. Bias Voltage, 1 rrent, 1.2 m	les., 200 of apply = 1.0 volts; Supply = 1.5 volts; Supply = 200 both GAC Plate Cull Plate Cull 150 50 volts:	hims 35 volts. T Shedow Ar 135 volts. ' Shedow Ar 3 · 2 5 GT and rect of D recht of 62 2 · 5 Control-R	10.0 riode Plingle, 0°. Triode Pigle, 0°. 12.5 5.0 176 is deriver = 14C5 GT 10.0 lectrode le Volta	10900 ste Resistor Bias, 0 volt late Resistor Bias, 0 volt 700000 eveloped in 32 million 1.05 Voltage, - 15, 5 voltage, - 15,	5500 - 0.25 me cs; Angle, r = 1.0 me ts; Angle; 5000 coupling c peres mperes. 9000 50 volts; S Angle, 0°	60 -g. Target Cognition 90°: Plate eg. Target 90°: Plate ircuit. Cathod 1 Shadow Aon : Target Co	Current Current 10000 7000 c-Biss Re 60 ohms gle, 135°;	0.5 ma. = 1.9 ma. 0.13 ms. 0.13 ms. 3.7 sistor.	6AB5/ 6NS 6AB7 6AC5-GT
6A8-G 6A8-GT 6AB4 6AB5/ 6N5 6AB7 6AC5-GT 6AC7	Converters a High-Mu Triade Electron-Ray Tube Indicator Type Remote-Cutoff Pentode High-Mu Power Amplifier Triade Sharp-Cutoff Pentode Electron-Ray	C3 B0 D4 B3 C22 B3	н н н	6.3 6.3 6.3 6.3	0.15 0.15 0.45	Visual Indicator Class A Amplifier Class B Amplifier Dynamic-Compled Amplifier With To Driver Class A Amplifier Visual Indicator	Plate Grid i Plate Grid i 300 250 250 300 Target	Cath. R & Target Su Bias 10. & Target Si Bias 15.5 - 3.0 0 Bias for Average Cath. Bias Voltage, 1	les., 200 of apply = 1.0 volts; Supply = 1.5 volts; Supply = 200 both GAC Plate Cull Plate Cull 150 50 volts:	hms 35 volts. T Shadow Ar 335 volts. ' hadow Ar 3.2 5 GT and recut of D recut of 6. 2.5 Control-R il-Electrod	10.0 Priode Plingle, 0°. Triode P rigle, 0°. Triode P rigle, 0°. 12.5 5.0 176 is de river = ACS-GT 10.0 lectrode	10900 site Resistor Bias, 0 volt fate Resistor Bias, 0 volt 700000 eveloped in a 5.5 milliam 32 milliam 1.08	5500 - 0.25 me ts; Angle, r = 1.0 me ts; Angle 5000 - coupling c peres unperes. 9000 50 volts; S	60 -g. Target 0 90°: Plate eg. Target 90°: Plate fireuit. Cathod 1 Shadow An	Current Current 10000 7000 c-Biss Re 60 ohms gle, 135°;	0.5 ma. = 1.9 ma. 0.13 ms. 0.13 ms. 3.7 sistor.	6AB5/ 6NS 6AB7 6AC5-G1
6A8-G 6A8-GT 6AB4 6AB5/ 6N5 6AB7 6AC5-GT 6AC7 6AD6-G	Converters a High-Mu Triade Electron-Ray Tube Indicator Type Remote-Gutoff Pentude High-Mu Power Amplifier Triade Sharp-Cutoff Pentude Electron-Ray Tube Triade Power Pentude	C3 B0 D4 B3 C2e B3 S5e	н н н	6.3 6.3 6.3 6.3	0.15 0.45 0.4 0.45	Visual Indicator Class A Amplifier Class B Amplifier Dynamic Coupled Amplifier With 76 Driver Class A Amplifier Visual Indicator Tricide Unit as Class A Amplifier Pentode Unit as	250 Plate Grid 1 Plate Grid 1 300 250 250 300 Target Cut	Cath. R & Target Su Bias 10. & Turget Si Bias 15 3.0 0 Bias for Average Average Cath. Bias Voltage, 1 rrent, 1.2 m	les. 200 of apply = I of volts; Supply = I of volts; Supply = Supp	hms 35 volts. T 35 volts. T 335 volts. T 335 volts. T 34 down Ar 3 · 2 55 GT and recut of D recut of D recut of 6.2 2 · 5 Control-B al-Electrod	10.0 Priode Plingle, 0°. Triode P. priode P. p	10900 ste Resistor Bias, 0 volt late Resistor Bias, 0 volt 700000 recloped in 5.5 milliam - 32 milliam 1.05 Voltage, - 5 te, 75 volta;	5500 - 0.25 me tx; Angle, tr = 1.0 mt ts; Angle to the ts; Angle	60 -g. Target Cognition 90°: Plate eg. Target 90°: Plate ircuit. Cathod 1 Shadow Aon : Target Co	Current : Current : Current, 10000 7000 c-Hiss Re 600 ohms gle, 135°;	0.5 ma. = 1.9 ma. 0.13 ms	6AB5/ 6NS 6AB7 6AC5-G1 6AC7- 6AD6-G
6A8-G 6A8-GT 6AB4 6AB5/ 6N5 6AB7 6AC5-GT	Converters a Iligh-Mu Triade Electron-Ray Tube Indicator Type Remote-Cutoff Pentode High-Mu Power Amplifier Triode Sharp-Cutoff Pentode Electron-Ray Tube Triode Power Pentode Amplifier	C3 B0 D4 B3 C2e B3 S5e D11e	н н н н	6.3 6.3 6.3 6.3 6.3	0.15 0.45 0.45 0.15	Visual Indicator Class A Amplifier Class B Amplifier Dynamic Coupled Amplifier With 76 Driver Class A Amplifier Visual Indicator Tricde Unit as Class A Amplifier Pentode Unit as Class A Amplifier	250 Plate Grid 1 300 250 250 Target Cut 250 250	Cath. R & Target Su Bias, — 10. & Target Su Bias, — 10. & Target Su Bias, — 15. 4 — 3.0 0 Bias for Average Average Cath. Bias 1 Voltage, 1 Trent, 1.2 m — 25.0 — 16.5	les. 200 of apply = I of volts; Supply = I of volts; Supply = Supp	hms 35 volts. T 35 volts. T 335 volts. T 335 volts. T 34 down Ar 3 · 2 55 GT and recut of D recut of D recut of 6.2 2 · 5 Control-B al-Electrod	10.0 Piriode Pingle, 0°. Triode Pingle, 0°. 12.5 5.0 176 is deriver = ACS-GT 10.0 lectrode le Volta 3.7	10900 Bias, 0 voltate Resistor Bias, 0 voltate Resistor Bias, 0 voltate Resistor 700000 reveloped in 1.55 milliam - 32 milliam - 32 milliam - 1.05 Log - 1.05 80000	5500 - 0.25 me ki; Angle, cr = 1.0 me ki; Angle : 5000 - 0.25 me ki; Angle : 0°; 325	60 g0°; Plate g. Target to g0°; Plate g. Target g0°; Plate ircuit. Cathod 1 Shadow Ao; Target C.	Current : Current : Current, 10000 7000 c-Hiss Re 600 ohms gle, 135°;	0.5 ma. = 1.9 ma. 0.13 ms	6AB5/ 6NS 6AB7 6AC5-GT 6AC7 6AD6-G

RCA Type	Name	Tube Di- men-		athode		Values to right give operating conditions and characteristics for	Plate Sup- ply	Grid Blas	Screen Sup- ply	Screen Cur- rent	Plate Cur- rent	AC Plate Resis- tance	Trans- conduc- toace (Grid Plate)	Amplifi- cation Factor	Load for Stated Power Ortun	Power Oul- put	RCA Type
		sions	C. T.	Wolts	Amg.	indicated typical use	Yelts	Velts	Volts	Ma	Ma	Ohms	"mbos		Ohrus	Walls	
						Class A Amp.AA	250	-13.5	-	_	10.0	4650	3000	14			
6AE7-GT	Twin-Input Triode Amplifier	C2c	н	6.3	0.5	Driver For Push- Pull &ACS-GT In Dynamic-Coupled Amplifier 250 Amplifier 250 Television Max. Peak Inverse Pigter Volts, 4500								10000	9.5	6AE7-G7	
6AF3	Half-Wave Rectifier	C2b	н	6.3	1.2												6AF3
6AF4	Medium-Mu	A1	н		0.005	Class A Amplifier	80 100		de Bias R 50 ohms	es.,	16 20	2270 2130	6600 7500	15 16			6AF4
6AF4-A	Trioden	80	М	6.3	0.225	25 (Scillator at 950 Mc. 100 Grid Bias Volts, 4 22 Grid Current (Approx.), 40 Useful Power Output, 150 r										tis	6AF4-A
6AF6-G	Electron-Rny Tube	BGe			0.15	0.15 Visual Indicator Voltage, 125 volts. Control-Electrode Voltage, 0 volts; Shadow Angle, 95°; Target Voltage, 250 volts. Control-Electrode Voltage, 80 volts; Angle, 0°. Target Voltage, 250 volts. Control-Electrode Voltage, 10 volts; Shadow Angle, 95°; Target Current, 2.2 ma. Control-Electrode Voltage, 160 volts; Angle, 0°.											
64P6-G	Twin Indicator Type	BISE	Н	6.3	0.15)5°;	6AF6-G

Light Face = Discontinued type.

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

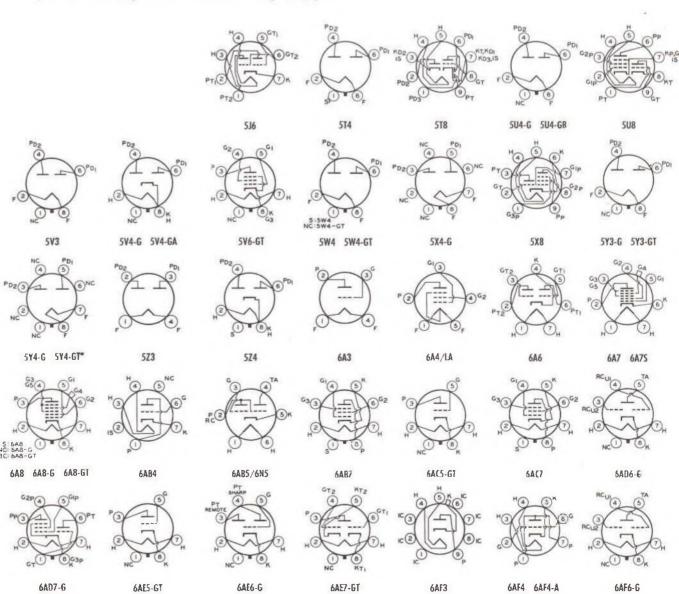
Two vertical rules before or after type No. - Metal type

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

- Either ac or de may be used on filament or heater, except as specifically noted. For use of de on ac filament types, decrease stated grid volts by ½ (approx.) of filament voltage.
- ♠ Heater has controlled warm-up time for series-string operation.
- Grids = 3 and # 5 are screen. Grid # 4 is signal-input control grid.
- Supply voltage applied through 20000-ohm voltage-dropping resistor

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

- A For two tubes
- Power output is for two tubes at stated plate-to-plate load.
- AA Both grids connected together; likewise both cathodes.
- √ With separate excitation and triode unit grounded.
- a 50000 ohms.



RCA	Name	Tube Di- men-		thode I		Use Value: to right give operating conditions and characteristics for	Plate Sup- ply	Grid Bias m	Screen Sup-	Screen Cur- rent	Plate Cur- rent	AC Plate Resis- tance	Trans- conduc- tance (Grid-plate)	Amplifi- cation Factor	Load for Stated Power Output	Power Out- put	RCA
		sions	E. Y.	Volls	Апер.	indicated typical use	Valts	Yolts	Voits	Ma	Ma.	Ohms	s muhos		Dáns	v#sW	
6AG5	Sharp-Cutoff Pentode	60	н	6.3	0.3	As Pentode Class A Amplifier As Triodell Class A Amplifier	100 250 180 250	Cath. Bias Cath. Bias	100	2.0	4.5 6.5 7.0 5.5	800000 800000 8000 10000	4500 5000 5700 3800	Cath. I	Bias Res., Bias Res.,	180 ohms 180 ohms 350 ohms 820 ohms	6AG5
6AG7	Powez Pentode	Cža	Н	6.3	0.65	Class A Amplifler 4-Me, Bandwidth Video Circuit	300	Cath. Bias - 2.0	125	7.0	28.0	Catho Load Peak-	de-Bias R Resistance to-Peak V	esistor, \$7 2, 3500 ohr olts Outpu	ohuns. ns. it, 140 app	prox.	6AG7
6AH4-GT	Medium-Mu Triode	C2e	Н	6.3	0.75	Vertical Deflection Amplifier		DC Plate				K A	dax. Peak dax. Plate	Positive P Dissipation	ulse Plate n. 7.5 wa	Volts, 200 tts	6AH4-G
6AH6	Sharp-Cutoff Pentode	80	Н	6.3	0.45	Class A Amplifier	300	Cath. Bias	150	2.5	10.0	500000	9000	Cath	. Res., 16	i0 ohms	6AH6
6AK5	Sharp-Cutoff Pentode	AT	н	6.3	0.175	Class A Amplifier	12D 180	Cath. Bias	120	2.5	7.5	300000 500000	5000 5100	Cath	n. Res , 18	emdo 08	6AK5
6AL5	Twin Diade	Al	н	6.3	0.3	Detector Rectifier		fax. Peak I fax. Peak I			. 54			put Ma. p			6AL5
6AL7-GT	Electron-Ray Tube	COh	н	6.3	0.15	Visual Indicator	Grid	voltage -	0 yolts		E	rid Voltage Deflecting-E	lectrodes-				6AL7-G
6AM4	High-Mu Triode	Ala	Н	6.3	0.225	Class A Amplifier	I50	Cath Bi	es., 3300 es Res., 1		7.5	Voltage =	9000	85		1 —	6AM4
6AM8 6AM8-A	Diode— Sharp-Cutoff Pentodes	BNs	H He	6.3	0.45	Diode Unit Pentode Unit as Class A Amplifier	200	Cath. Bias	Max DC 150	Plate Ma	.5 Ma	z. Peak Hes	ter-Catho 7000			120 ohms	6AM8
6AN4	High-Mu	A1	Н	6.3	0.225	Class A Amplifier	200	Cath. B	as Res., 1		13	Cons	10000	70 anscond., 2			6AN4
471144	Triode			0.0	0122	Mixer Service Trinde Unit as	125	Cath. B	вэ Всв., 2	20 ohms	7			ection Vol			- OAIIII
6AN8	Triode— Sharp-Cutoff Pentode	ØQa	Н	6.3	0.45	Class A Amplifier Pentode Unit as Class A Amplifier	200	- 6 Cath. Biss	150	2.8	9.5	5750 300000	3300 6200	19		h. Res.	6AN8
6AQ5	Beam Power		н			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	6AQS
6A QŠ-A	Tubes	61	He	6.3	0.45	Push-Pull Class AB, Amplifier	250	-15.0	250	5.04	70.04	50000	-	_	10000	10.01	6AQ5-A
6AQ6	Twin-Diode Righ-Mu Triode	80	Н	6.3	0.15	Triode Unit as Class A Amplifier	100 250	- 1.0 - 3.0	_	-	0.8	61000 58000	1150 1200	70 70	_	_	6AQ6
6AQ7-GT	Twin-Diode High-Mu Trinde	C&c	н	6.3	0.3	Triode Unit os Class A Amplifier	250	- 2	_	_	2.3	44000	1600	70		_	6A Q7-G7
6AR5	Power Pentode	BI	н	6.3	0.4	Class A Amplifier	250 250	-16.5 -18	250 250	5.7	34.0 32.0	65000 68000	2400 2300		7000 7600	3.2	6AR5
6AS5	Beam Power Tube	B1	н	6.3	0.8	Class A Amplifier	150	- 8.5	110	2.0	35		560D	_	4500	2.2	6AS5
6AS8	Diode— Sharp-Cutoff Pentode	80a	н	6.3	0.45	Diode Unit Pentode Unit as Class A Amphilier	Max. 200	Peak Inve	rse Plate 1	Volts, 330	Max. 1	Peak Plate 300000	Ma., 50 1 6200	Aax. Aver	age Plate Cath. Res 180 ohm:	1.,	6A58
6AT6	Twin-Diode Bigh-Mu Triode	Bo	Н	6.3	0.3	Triode Unit as Class A Amplifier	100	- 1.0 - 3.0	-	-	D.B 1.0	54000 58000	1300 1200	70 70	7 BU OHIN		6AT6
6AT8 6AT8-A	Triode— Pentade Converters	80a	н	63	0.45	Triode Unit as 250-Mr. Oscillator Pentode Unit as Mixery	150	Grid Re Grid Cu Grid-No Mixer C	sistor, 270 rrent, 3.6 2. 2 Volts, rid-No. I	Ma. 150 Supply V		O 1.5 M	Plat Pov sc. Volts a lixer Grid-	te Current ver Output t Mixer G No. 1 Resi	rid-No. 1 istor, 1200		OM I G-M
6AU4-GT	Half-Wave	C106	н	6.3	1.8	Television		Peak Inve		Volts, 450	0 (Absol		Ma	x. Average	Plate Ma		6AU4-GT
6AU4-	Rectifier Half-Wave	C10b	н	6,3	1.8	Damper Service Television	Max.	Peak Plat	rse Plate	Volus, 450	0 (Absol	ute)		Average P		6.0 watts	6AU4-
GTA GAU5-GT	Rectifier Beam Power	£2r				Damper Service Norizontal Deflec-		Peak Plate			Max	. Peak Posi		Plate Diss Plate Volt			GTA
6AU6	Tube Sharp-Cutoff	80	H	6.3	1.25	tion Amplifier	Max 100	DC Catho	de Ma., 1	2.1		Plate Dis		effaw 0	ias Res.,		6AUS-GT
6AU7	Pentode Medium-Mu	80a	н	6.3 3.15	0.3	Class A Amplifier Each Unit as	250 100	Bias 0	150	4.3	10.5	1.0§	5200 3500		lias Res.,		6AU6
0AU7	Twin-Triode Medium-Mu	804	п	6.3	0.3	Class A Amplifier Triode Unit as	250 150	- 8.5 Cath	Res., 150	ohms	9.5	7950 7200	2200 5600	17.5		=	6AU7
6AU8	Triode— Sharp-Cutoff Pentode	Bla	He	6.3	0.6	Class A Amplifier Pentode Unit as Class A Amplifier	200	Cath. Bies	125	3.6	17	140000	8000		th. Bias I 82 ohms		6AU8
6AV5-GA 6AV5-GT	Benin Power	D1a C2c	н	6.3	1.2	Horizontal Deflec- tion Amplifier		DC Plate DC Catho				Max. Peak Max. Plate				00 (Abs)	6AV5-GA
6AV6	Twin-Diode High-Mu Triode	80	Н	6.3	0.3	Triode Unit as Class A Amplifier	100	- 1.0 - 2.0			0.5	80000 62500	1250 1600	100			6AV6
6AW8 6AW8-A	High-Mu Triode— Shasp-Cutoff	Bla	Не	6.3	0.6	Triode Unit as Class A Amplifier Pentode Unit as	200	- 2 Cath. Bias		3.5	4	17500	4000	70			6AW8
6AX4-GT	Pentode Half-Wave	C2c	К	6.3	1.2	Class A Amplifier** Television	Max.		WS-A Fe	atures a p Volts, 440	late cur	ent charact Max. Peak		h a contro	iled knee.		6AX4-G1
	Rectifier Full-Wave					Damper Service With Capacitive- Input Filter	Max.	DC Plate AC Volts ; Peak Inve	Ma., 125 ser Plate	(RMS), 45	50 Max	DC Output. Peak Plat	t Ma., 80	st not exce Min.	ed 900 vo	olts. ec. Supply	
6AX5-GT	Rectifier Medium-Mu	C2r	н	6.3	1.2	With Inductive Input Filter Triode Unit as	Max.	AC Volts : Peak Inve	er Plate ise Volts,	(RMS), 45 1250	Max Max	. DC Outpi	e Ma., 375	5 Min. Chok	Value of e, 10 hen	Input	6AX5-G1
6AX8	Triod- Shurp-Cutoff Pentude	E Da	н	6.3	0.45	Class A Amplifier Pentode Unit as Class A Amplifier	250	Cath. B Cath. Bias	ius Res., S	6 ohms	10	400000	4800	Cath. B	ias Rcs.	120 phns	6AX8
6AZ8	Medium-Mu Triode— Semiremote-	80a	н	6.3	0.43	Triode Luit as Class A Amplifier Poutode Unit as	200	- 6 Cath.	150	3	9.5	5750 300000	3300	19 Cath	Res., 18	I nome	6AZ8
6B4-G	Cutoff Pentode Priver Amplifica Triode	E2	ŗ	6.3	1.0	Class A Amplifier Class A Amplifier Push-Pull	250 325		 Rs, 850 of	ита ф	60.0 80.0	800	5250	4.2	2500 5000	3.20 10.0†	6B4-G
6B5	Direct-Coupled	Ð12o	Н	6.3	0.8	Class A Amplifier	325		olta, fixed	bias	80.0 haracteri	stics, refer	to Type 61	Nδ·G.	3000	15.0†	6 B S
6B6-G	Power Amplifier Twin-Diode	D8	Н	6.3	0.3	Triode Unit as						sties, refer					6B6-G
6B7	High-Mu Triode Twin-Diode					Amplifier Pentode Unit as			Plate Volt	a, 300 ma	x; Grid	Volta, 0: Pi	ie Ma., 8	AF Signa			6B7
6B7S	Remote-Cutoff Pentode Twin-Diode	D/8	Н	6.3	0.3	Amplifier Pentode Unit as	Oatp	ut Irrode:	7000 obms	: Power C	Output, 4				s; Load F	cesstance,	6B7S
6B6	Pentode	CI	Н	6.3	0.3	Amplifier			Fo	or other cl	baracteri	istica, refer	to Type 12	C8.			6B8

RCA Type	Name	Tube Di- men- sions		thode nd Rai		Values to right give operating conditions and thereafterstics for ledicated hybrigal use	Plate Sup- ply	Grid Bias 🖿	Screen Sup- ply	Screen Cur- rent	Plate Cur- rent	AC Plate Resis- tance	Trans- conduc- tance (Grid-Plate)	Amplifi- cation Factor	Load for Stated Power Dolput	Power Out- put	RCA
		210117	C. T.	Yelfs	Amp.	indicated sypical ox	Volts	Volts	Yells	Ma	Ma	Olens	agrám,,		Oitres	Walls	
6B8-G	Twin Diode-			4.0		Pentode Unit as RF Amplifier	100 250	- 3.0 - 3.0	100 125	1.7	5.8	300000 600000	950 1125	_			con 0
UB8-0	Remote-Cutoff Pentade	Da	Н	6.3	0.3	Pentode Unit as						r = 1.1 me r = 1.2 me				tage = 55	6B8-G
6BA6	Remote-Cutoff Pentode	80	н	6.3	0.3	Class A Amplifier	100 250	Cath. Biss	100	4.4	10.8 11.0	250000 1.08	4300 4400		as Res., 6		6BA6
6BA7	Pentagrid Convertor	Bla	Н	6.3	0.3	Converter	100 250	- 1.0 - 1.0	100	10.2 10.0	3.6 3.8	500000 1.05	Grid-No. Conversio	Resistor, n Transcor			6BA7

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

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

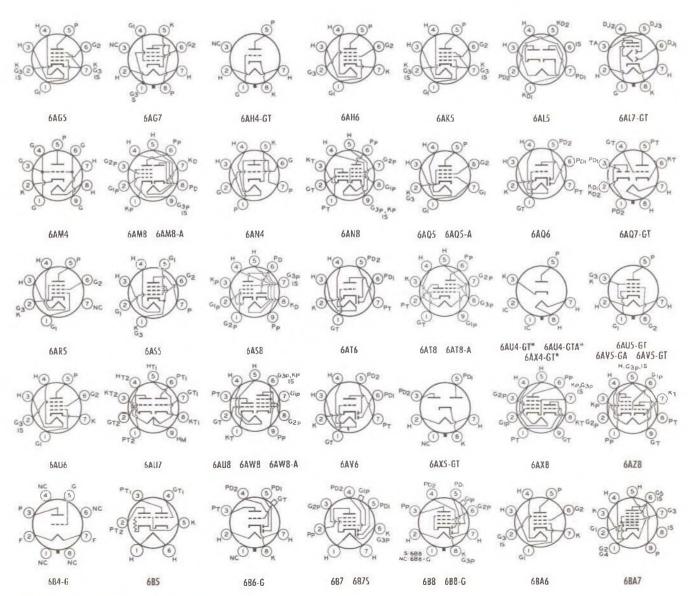
Light Face - Discontinued type.

For key to tube dimensions and, legend for base and envelope connection diagrams, see page 37.

- 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 ½ (approx.) of filament voltage.
- Heater has controlled warm-up time for seriex-string operation.
- ▲ Grids # 2 and # 4 are screen. Grid # 3 is signal-input control grid.
- Grid # 2 tied to plate
- x Applied through plate resistor of 250000 ohms.

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

- § Megohms.
- For two tubes.
- T Power output is for two tubes at stated plate-to-plate load.
- ** For grid of following tube.
- With separate excitation and triude unit grounded
- With tube mounted horizontally and pins No. 4 and No. 8 in a vertical plane (pin No. 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	0	thode	ing	Use Yalues he right give apperating conditions and characteristics for indicated typical use	Plate Sup- ply	Grid Bias =	Screen Sup- ply	Cur- rent	Plate Cur- rent	AC Plate Resis- tance	Trans- canduc- lance (Grid-plate)	Amplifi- cotion Factor	Lood for Stated Paner Output	Power Oul- put	RCA Type
	33-21 **	2.0112	C. T.	Volts	Amp.	Triode I nit as	Valts	Valts	2 BaY	Ma	Ma	O hours	nuppez		Ohms	Malts	
6BA8-A	Medium-Mu Triode Sharp-Cutoff	Bla	Не	6.3	0.6	Class A Amplifier Pentode I nit as	200	- 8 Cath.		-	R	6700	2700	18	Calh	Вінэ Всв.	6BA8-A
CDC4	Pentode Medium-Mu	A1-			0.705	Class A Amplifier	200	Bias Cath.	150	3.5	13	400000	9000		180	. Res.,	cnc4
6BC4	Triode Sharp-Cutoff	Ala	Н	6.3	0.225	Class A Amplifier	150	Bias Cath.		-	14.5	4800	10000	48	100	ohms	6BC4
6BC5	Pentode	BO	Н	6.3	0.3	Class A Amplifier DC Restorer in	250	Bias	150 Iax. Peak	2.1	7.5	800000 tn 300	5700		iss Res.	180 ohms te Ma., 12	SBC5
6 8C 7	Triple Diude Medium-Mu	BOa	Н	6.3	0.45	Color TV Each Unit as		Diode: N	Iax. Peak	Plate Ma	54	,)	1 1 1 1 2	6BC7
6BC8	Twin-Triode Sharp-Cutoff	BOn	Н	6.3	0.4	Class A Amplifier	150 May	Cath.	Res , 220		10	_	6200	x. DC Plat	Ma I	-	6BC8
6BD4	Beam Triode Sharp-Cutoff	EO	н	6.3	0.6	Vultage-Control	Max	. Unregulati DC Plate	ed DC Su	pply Volt	s. 40000		Ma		issipation,	20.0 watts	6BD4
6BD4-A	Beam Triods	EO	Н	6.3	0.6	Voltage-Control		Unregulate	ed DC Su		13.0	15000				25.0 watts	6BD4-A
6BD6	Pentode	B:0	Н	6.3	0.3	Class A Amplifier	250	- 1 - 3 - 1.5	100	3.0	9.0	150000 800000	2000		nanna - h		6BD6
6BE6	Pentageid Converter▲	Bu	Н	6.3	0.3	Converter	100 250	~ I.5	100	7.0 6.8	2.6	400000 1.05	Convers		ond., 475	micromhos	6BE6
6BF5	Beam Power Tube	Bt	Н	6.3	1.2	Class A Amplifier Vertical Deflection Amplifier	Max Max	- 7.5 DC Plate DC Catho	Volts, 250 xde Ma. 4	4.0	36.0			Positive-P		1.9 Volts, 900	6 BF 5
6BF6	Twin-Dinde Medium-Mu Triode	80	Н	6.3	0.3	Triode Unit as Class A Amplifier	250	- 9.0	_	_	9.5	8500	1900	16	300 mi	Output, lliwatts	6BF6
6BG6-GA	Beam Power Tubes	Ε	Н	6.3	0.9	Horizontal Deflec- tion Amplifier		DC Plate DC Catho				Max. Peak Max. Platc				0 (Abs.)	6BG6-G
6BH6	Sharp-Cutoff Pentode	Bu	н	6.3	0.15	Class A Amplifier	100 250	- 1.0 - 1.0	100	1.4	3.6	700000 1.4§	3400 4600	=	=	_	6BH6
ép.	Medium-Mu Triode-					Triode Unit as Class A Amplifier	150	- 5	-	_	9.5	\$150	3300	17	_	_	CRASC
6BH8	Sharp-Cutoff Pentode	81a	H	6.3	0.6	Pentode Unit as Class A Amplifier	200	Cath. Bias	125	3.4	15	150000	7000	Car	th. Bias R 82 ohms	les.,	6BH8
6 B J6	Remote-Cutoff Pentade	BO	н	6.3	0.15	Class A Amplifier	100 250	- 1.0 - 1.0	100 100	3.5	9.0	250000 1.35	3650 3600				6BJ6
6BJ7	Triple Diode	B0a	н	6.3	0.45	DC Restorer in Color TV		Each D	ode Ma		iverse P	late Volts. 3		fax. Avera	ge Plate N	Ла., 1	6BJ7
CD 19	Twin Diode					Triode Unit as Class A Amplifier	90 250	- 9			13.5	4700 7150	4700 2800	22 20			CD 10
6B 18	Medium-Mu Triode	Bto	He	6.3	0.6	Triode Unit as Vertical Disloction Amplifier	Max	DC Plate Peak Cath	ode Ma.,	70		Max Peak Max Plate	Dissipatio	n. 3.5 wat	13	(.edA) 00	6BJ8
6BK4	Sharp-Cutoff Beam Triode	Ela	н	6.3	0.2	Voltage-Control		DC Plate Unregulate			a, 55000			DC Plate I Plate Dissi		Watts	6BK4
6BK5	Beam Power Tube	81a	н	5.3	I.2	Class A Amplifier	250	- 5	250	3.5	-35	100000	8500	_	6500	3.5	6BK5
6BK7-A	Medium-Mu Twin Triodes	Búa	He He	6.3	0.45	Each Unit as Class A Amplifier	150	Cath	ode Bias I	Res	18	4600	9300	43		off, - 11	6BK7-8
6BL4	Half-Wave Rectifier	DI1b	н	6.3	3.0	Television Damper Service	Max	Peak Inve Peak Plate DC Plate	Ma., 120		(.edA) D	IVLBX. PC		Cathode V	+30		6BL4
6BL7-GT	Medium-Mu Twin Triode	C2e	н	6.3	1.5	Vertical Deflection Amplifier		DC Plate DC Catho), 60			ive-Pulse Fipation (Ea			6BL7-G
BL7-GTA	Medium-Mu Twin Triode	G2c	н	6.3	1.5	Vertical Deflection Amplifier (Um No. 2) Vertical Deflection	Мах.	DC Plate DC Catho	de Ma., 6	0		Max. Peak : Max. Piate Max.	Dissipatio		3	0 (Abs.)	6BL7-G1
	34 31 84				_	Oscillator (Cal) No. 11		Plate Diss	ipation, 1	estew 0				g. Grid Vol			
6BN4	Medium-Mu Triode	80	Н	6.3	0.2	Class A Amplifier	150	1	odc Bias I 150 ohms		9	6300	6800	43			6 BN 4
6BN4-A	Mediam-Mu Triode	60	Н	6.3	0.2	Class A Amplifier	150	2	h. Bias Re 20 ohms	_	9	5400	8000	43	_	-	6BN4-A
6BN6	Beam Power Tube	81	Н	6.3	0.3	Limiter and Discriminator		Max Positi			Volts, S		z Peak H	x. Grid-No leater-Cath			6BN6
6BN8	Twin-Diode High-Mu Triode	B1a	He	6.3	0.6	Triode Unit as Class A Amplifier	100 250	- 1 - 3	=	=	1.5	21000 28000	3500 2500	75 70			6BN8
6BQ5	Beam Power Tube	C0a	н	6.3	0.76	Class A Amplifier Push-Pull	250 250	- 7.3 Cath. Bias	250 250	5.5 74 84	48 62 🏟	38000 Cath. Bie	11300 is Res., 13	0 ohms	4500 8000	5.7	6BQ5
CDOS CE	Ream Power					Class AB, Amplifier Rorizontal Deffee-		Cath. Bias DC Plate			72	Cath. Bis	Positive P		8000 Volta, 550	17† 0 (Abs.)	CROS C
6BQ6-GT	Tube	C11	н	6.3	1.2	tion Amplifier	Max.	DC Catho	de Ma., I	10	_	Max. Plate	Dissipatio	n, 11 watts	3		6BQ6-G
GTB/ 6CU6	Beam Power Tube	C11	н	6.3	1.2	Horizontal Deflec- tion Amplifier		DC Plate DC Catho	de Ma., 1	12.5		Max. Peak Max. Plate	Positive P Dissipatio	ulse Plate m, 11 Wate	et		GTB/ 6CU6
6BQ7	Medium-Mo Twin Triode	B0a	H	6.3	0.4	Each Unit as Glass A Amplifier	150	1	ode Bias I 220 ohms		9.0	5800	6000	35	for Cut	off,10	6BQ7
6BQ7-A	Medium-Mu Twin Triode	B0a	H	6.3	0.4	Each Unit as Class A Amplifier	150		ode Bias I 220 ohms	res.,	9.0	6100	6400	39	for Cut	off, -10	6B Q7-A
6BR8 6BR8-A	Medium-Mu Triode Sharp-Cutoff Pentode	BBs	H He	6.3	0.4	Triode Unit as Class A Amplifier Pentode Unit as	150 250	Cath. Bias Cath. Bias	110	3.5	18	5000 400000	8500 5200	40	Cath. E	Bies Res., ohms Bies Res., ohms	6BR8-
6BS8	Medium-Mu Twin Triode	Bûa	Н	6.3	0.4	Class A Amplifier Cascode Amplifier Each Unit as	250 150	- 1 Cath.	=	=	16 10	5000	10000 7200	36	Cath. E	lias Res.,	6BS8
6BU8	Sharp-Cutoff Twin Pentode	Bla	н	6.3	0.3	Class A Amplifier Class A Amplifier With Both Sections	100	Bips	67.5 67.5	6.5 3.3	2.2	Gr Gr	id-No 3 v id-No. 3 v	olts, each s	section,	ohma 10	GRUB
6 BW 4	Full-Wave Rectifier	Bia	н	6.3	0.9	Upcrating With Capacitive Input Filter	Max	AC Volts p Peak Inve	per Plate rse Volts, Min.	(RMS), 3: 1275 Total Eff	ect. Sup	od for 100 m	Max. D Max. Po per Plate,	C Output eak Plate I	Ma. per P	late, 350	6 BW 4
						With Inductive Input Filter Vertical Deflection Oscillator	Max.	Peak Inve	rse Volts, Volts, 500	1275 Min. Va	alue of I	nput Choke, te; 12 watts	Max. Po 10 henrie	cak Plate I a Max. DC	Ma. per P		
BX7-GT	Medium-Mu Twin Triodes	C2c	Н	6.3	1.5	Vertical Deflection Amplifier	Max. Max.	DC Plate DC Cath.I Peak Inve	Volts, 500 Ma., 180	Max.	Perk Po Plate Di	sitive-Pulse asipation: 10	Plate Volt watta cit	ns. 2000 (A her plate;	12 watts b		6BX7-G
6BY5-GA	Full-Wave Rectifier	Ĉ11a	Н	6.3	1.6	Television Damper Servico	Max	Peak Plate	Ma., 525			М	ax. Penk l	Heater-Cat	hode Vol	1 + 100	6B Y5~G

RCA Type	Name	Tube Di- men-		ithode		Values to right give operating conditions and characteristics for	Plate Sup- ply	Grid Bias =	Screen Sup- ply	Screen Cur- rent	Plate Cur-	AC Plate Resis- tance	Trans- canduc- tance (Grid-Plate)	Amplifi- cation Factor	Load for Stated Power Outpot	Power Out- put	RCA Type
		sions	C. T.	W afts	Amp.	indicated typical use	SHOW	Volts	Volts	Ma.	Ma.	Ohms	"minos		Ohms	Watts	
6BA6	Pentagrid Amplifice	80	н	6.3	0.3	Sync Separator and Sync Clipper	10	0	25	3.5	1,4		Grid-	No. 3 Volt	s, 0		6BY6
6BY8	Diode	Bla	не	6.3	0.6	Diode Unit		Peak Inver		olts, 430		M:		ate Ma., 4. leater-Cat	6BY8		
922 1 11	Sharp-Cutoff Pentade	BIS	He	0.3	u.b	Pentode Unit es Class A Amplifier	100 250	Cath. Bias	100 150	2.1	5	500000 1§	3900 5200	Cath. Bi	0010		
6BZ6	Semiremote- Cutoff Pentode	80	Н	6.3	0.3	Class A Amplifier	200	Cath. Bias	150	2.6	11	0.6§	6100	Cath. Bi	ав Res., 1	80 ohms	6BZ6
6BZ7	Medium-Mu Twin-Triode	Boa	Н	6.3	0.4	Each Unit as Class A Amplifier	150		de Bias Re 220 ohms	5.,	10	3600	6800	36	Grid-No	off, -7	6BZ7
6 BZB	Medium-Mu Twin Triode	BDa	Н	6.3	0.4	Each Unit as Clean A Amplifier	125	Cath. Bis	as Res., 10	0 ohms	10	5600	8000	45	_	_	6BZ8
6C4	HF Power Triode	80	н	6.3	0.15	Class A Amplifier	100 250	- 8.5	-	_	11.8	6250 7700	3100 2200	19.5		_	6C4
						Class C Amplifier	300 .	-27.0	Grid A	\$a., 7	25.0	Driving 1	ower, 0.3	S watt			

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

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

Light Face = Discontinued type.

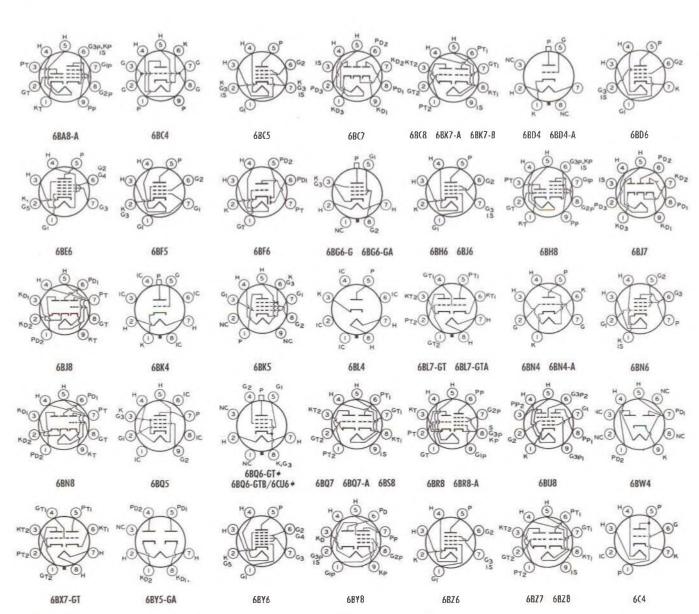
For key to tube dimensions and, legend for base and envelope connection diagrams, see page 37.

- Either ac or de may be used on filament or heater, except as specifically noted. For use of de on ac filament types, decrease stated grid volts by ½ (approx.) of filament voltage.
- · Heater has controlled warm up time for series-string operation
- ▲ Grids = 2 and = 4 are screen. Grid = 3 is agnal-input control grid.

Grid # 2 tied to plate.

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

- Megohms.
- A For two tubes.
- Power output is for two tubes at stated plate-to-plate load.



RCA		Tube Di-	Co	athode	Туре	Values to right give operating conditions	Plate Sup-	Grid	Screen	Screen Cur-	Plate Cur-	_AC Plate	Trans- canduc- tance	Amplifi-	Load for Stated Power	Power Out-	RCA
Туре	Name	men- sions	C, T,	and Ro	ting Amp.	and characteristics for indicated typical use	ply	Bios Valb	ply	rent Ma	rent Ma	fance Dims	Grid Plate	Factor	Gudged Obass	tieW tud	Туре
6C5 6C5-GT	Medium-Mu Triodes	B3 C3	н	6.3	0.3	Class A Amplifier	250 90 ¥ 300 ¥	Cath. I	Bias, 5400 Bias, 5300	ohms.		10000 Histor,** 0.2		'. G.	ain per s'	tage = 11 tage = 13	6C5-G
6C6	Sharp-Cutoff Pentode	D13a	н	6.3	0.3	Bias Detector Amplifier Detector	250	-17.0				e adjusted to			th no sig	na).	606
6C7	Twin-Diode Triode	D 9	Н	6.3	0.3	Triode Unit na Class A Amplifier	250	- 9.0	_	_	4.5	16000	1250	20		1	6C7
6C8-G	Medium-Mu Twin-Triode	D8	H	6.3	0.3	Each Unit as Class A Amplifier	250	- 4.5		-	3.2	22500	1600	36		1	6C8-
6CB5	Beam Power	Ella	н	5.3	2.5	Horizontal Deflec-		DC Plate			-	Max. Peak				300 (Als.)	6CB
6CB5-A	Tube Beam Power	E0 E0a	Н	6.3	2.5	Harizontal Deflec-	Max.	DC Catho	Volts, 800	1		Max. Plate Max. Peak	Positive-P	ulsc Plate	Valts, 68	300 (Abs.)	6CB5
6CB6 6CB6-A	Tube Sharp-Cutoff Pentodo	B0	н	6.3	0.3	Class A Amplifier	125	Cath.	125	3.7	13	Max. Plate	Dissipatio			s., 36 ohms	6CB
6CD6-G	Beam Power	F1	н	6.3	2.5	Horizontal Deffec-		DC Plate				Max. Peak				000	6CB6
CD6-GA	Tubes Sharp-Cutoff	Ε0	-	-	-	tion Amplifier		DC Cath				Max. Plate					6CD6-
6CF6	Pentode	80	н	6.3	0.3	Class A Amplitier Horizoutal Deflec-	200 Max.	- 6.5 DC Plate	150 Volta, 300	2.8	9.5 Max	600000 Peak Cath	6200 ode Ma., 3	00		180 ohms	6CF
6CG7	Medium-Mu Twin-Triode	813	Не	6.3	0.6	tion Oscillator Vertical Deflection Oscillator	Max Max.	Peak Neg DC Plate Peak Neg.	Pulse Grid Volts, 300 Pulse Grid	d Volts, 60 d Volts, 40	Max.	DC Cathoo Peak Catho DC Cathoo	de Ma., 20 ode Ma., 7 de Ma., 20	0 both	plate, 3. lates, 5	on (Watta) 5	6CG
			н			Triode Unit as 250-Mc. Oscillator	150	Grid Cu	sistor, 270 arent, 3.6 o. 2 Volts,	ms.		5 1	Power	Output (A		0.5 watt	
6CG8	Triode Pentade	BOa	n	6.3	0.45	Pentode Unit, as Mixery	150	Mixer C	rid-No. 1	Supply V		3.5 Mix		I Resisto Aixer Grid-			6CG
6CG8-A	Converter	000	He	0.5	0.45	Triode Unit as Class A Amplifier	100	Cath. Bias	1011 4 181131		8.5	6900	5800	40	Cath. I	Bins Res.,	6CG8
						Pentode Unit as Class A Amplifier	250	Cath. Bias	150	1.6	7.7	750000	4600		Cath. 1	Bias Res.,	
	Medium-Mu					Triode Unit as	200	- 6		_	13	5750	3300	19	200	Ontris .	
6CH8	Triode Sharp-Gutaff	B0s	Н	6.3	0.45	Class A Amplifier Pentode Luit as	200	Cath.	150	2.8	9.5	100000	5200			Bias Res ,	6CH
6CK4	Pentode Law-Mu	C5	н	6.3	1.25	Class A Amplifier Vertical Deflec-		DC Plate				Max Peak			Volts, 20	ohms 00 (Abs.)	6CK
6CL6	Triode Power	610	н	6.3	0.65	Class A Amplifier 4-Mc Bandwidth	300	Peak Catl	300	7.0	30.0		sistor, 3900			2	6CL
	Pentode			5.0		Video Circuit Triode Unit as		Cath.	200	710		Peak-to-I	Peak Outp	ut Volts, I.	32 appro		
6CL8	Medium-Mu Triode Sharp-Cutoff	B0a	не	6.3	0.45	Class A Amplifier Tetriale Unit as	125	Bias			15	5000	8000	40		ohms	6CL
	Tetrode	-				Cless A Amplifier Triode Unit as	125	- 1	125 1. Bias Re	4	12	100000	5800				
6CL8-A	Medium-Mu Triode Sharp-Cutoff	BDr	He	6.3	0.45	Class A Amplifier Tetrode Unit as	125		56 ohms		15	5000	8000	40		-	6CL8-
	Tetrode					Class A Amplifier	125	- 1	125	4	12	100000	6400		5500	2	
6CM6	Beam Power	Bla	Н	6.3	0.45	Class A Amplifier	180 315	-8.5 -13	180 225	3 2.2	29 34	50000 80000	3700 3750	_	8500	5.5	6CM
	Tube					Vertical Deflection Amplifier	Max.	DC Plate Peak Cath	ode Ma., 1			Max. Peak l Max. Plate l	Dissipation	a. 8 watts			
6CM7	Dual Triode With Dissimilar	B1s	Не	6.3	0.6	Vertical Deflection Oscillator (usi) No. 13		DC Plate Pcak Neg.			0 Max	Peak Catho		Plate Dissip			6CM
001111	Units	DIS	7.0	0.3	0.0	Vertical Deflection Amplifier (Gat No. 2)		DC Plate Peak Posit			ta, 2200			Neg. Puls Cathode		/olta, 200	00111
2000	High-Mu Trìode—	DA-		6.3	0.15	Triode Unit as Class A Amplifier	250	- 2		_	1.8	50000	3000	100	_		0000
6CM8	Sharp-Cutoff Pentode	B0a	Ha	6.3	0.45	Pentode Unit as Class A Amplifier	200	Cath. Bias	150	2.8	9.5	600000	6200	Cath. Bi	as Res.	180 ohms	6CM
6CN7	Twin Diode High-Mu Triode	800	н	6.3	0.6	Triode Unit as Class A Amplifier	100 250	- 1 - 3			0.8	54000 58000	1300 1200	70 70	=		6CN7
	Medium-Mu Triode					Triode Unit as Class A Amplifier	125	Cath. Bias	-	-	15	5000	8000	40		dias Res.,	
6CQ8	Sharp-Cutoff Tetrode	B0o	не	6.3	0.45	Tetrode Unit as Class A Amplifier	125	- 1	125	4.2	12	140000	5800	_	_	-	6C Q8
6CR6	Diode Remute-Cutoff	80	н	6.3	0.3	Pentode Unit as Class A Amplifier	250	- 2	100	3	9.5	200000	1950	Grid-No. cond. of 1			6CR6
	Pentode					Sync Separator	10		30	4.5	2	Grid-No. 3 Grid-No. 1				i —	
6CS6	Pentagrid Amplifier	80	н	6.3	0.3	and Sync Clipper	100	- 1	30	\$.5	0.8	700000	VOIES, U		lo. 3 Vol nd., 1500		6CS6
	Aupiner					Class A Amplifier	100	0	30	1.3	1	15	1100	Grid-	No. 3 Vo	olts, O	
	Dual Trinde					Vertical Deflection	Max.	DC Plate	Volta, 500			x. Peak Cat	hode Ma.,	70 Max	Plate		
6CS7	With Dissimilar Units	810	Hø	6.3	0.6	Oscillator (Unit No. 1) Vertical Deflection Amplifier (Int. No. 2)	Max.	Peak Neg. DC Plate ' Peak Posit	Volts, 500			x. DC Cath	Max. Peak	NegPuls Cathode I	e Grid V	l.25 watts folls, 250	6CS7
6CU5	Beam Power	B1	н	6.3	1.2	Class A Amplifier	120	- 8	110	4	49	10000	7500		2500	2.3	6CUS
	Medium-Mu Triode	P.O.	1/2		,	Triode Unit as Class A Amplifier	200	- 6	_	_	13	5750	3300	19			
ecns	Sharp-Cutoff Pentode	BOa	He	6.3	0.45	Pentode Unit as Class A Amplifier	200	Cath. Bias	150	2.8	9.5	300000	6200			Bias Res.,	6CU
CCV9	Medium-Mu Triode-	B1-	ы	6.2	0.75	Triode Unit as Class A Amplifier	150		as Rea., 15	so ohma	9.2	8700	4600	40		-	COV
6CX8	Sharp-Cutaff Pentode	Bla	Н	6.3	0.75	Pentode Unit as Class A Amplifier	200	Cath. Bias	125	5.2	24	70000	10000	Cath. B	aa Res .	68 ohnis	6CX8
6CY5	Sharp-Cutoff Tetrode	0.9	Н	6.3	0.2	Class A Amplifier	125	-1	80	1.5	10	100000	8000				6CY
						Vertical Deflection Oscillator (Unit No. 1)	Мах.	Peak Neg DC Plate	-Pulse Gri	d Volts, 4	00		M	x. Plate D	lissipatio	n, 1 watt	
6CY7	Dual Triode With Dissimilar Units	B12	Н	6.3	0.75	Vertical Deflection	Max	Peak Pos Peak Neg.	Pulse Plat	te Volta, I	800 50			Plate Dissi			6CY
	501961					Vertical Deflection	Max.	Peak Cath	ode Ma.,	120		Max. Peak		DC Plate			
6CZ5	Beam Power	Bla	н	6.3	0.45	Amplifier Chas A Amplifier		Peak Cath				Max. Plate				5.4	6CZ5
0F 23	Tube			0.3	0.73	Push-Pull	350	- 23.S	280	3	46	12000	-1800		7500	21.5	GUZS

RCA Type	Name	Tube Di- men-		ithode		Use Yalues to right give appearing conditions and characteristics for indicated typical use	Plate Sup- ply	Grid Bias =	Screen Sup- ply	Screen Cur- rent	Plate Cur-	AC Plate Resis- tance	Trans- conduc- tance (Grid-Plate)	Amplifi- cation Factor	Locd for Stated Power Ontput	Power Out- put	RCA Type
		sions	E. T.	Velts	Amg.	eluxulea sypital use	Velts	Volts	Valts	Ma.	Ma	Ohms	,. mitras		Obms	Walts	
6D6	Remute-Cutoff Pentode	D13a	н	6.3	0.3	Amplilier Mixer			Fo	or other cl	ameteri	stics, refer t	o Type 6U	77-G			6D6
6 D 7	Sharp-Cutoff Pentude	2130	Н	6.3	0.3	Amplifier Detector			Fo	r other cl	ameteri	stics, refer t	o Type 6]	6D7			
6128-G	Pentagrid Converter p	D9	н	6.3	U.15	Converter	135 250	- 3.0 - 3.0	67.5 100	1.7	1.5	600000	Anode-Gri	6D8-G			
6DA4	Half-Wave Rectifier	C2c	н	6.3	1.2	Television Damper Service		Peak Inver Peak Plate			5.)			Average P Plate Diss			6DA4
6DC6	Semiremote-Cutoff Pentude	B0	Н	6.3	0.3	Class A Amplifier	200	Cath. Bias	150	3.0	9.0	500000	5500	Cath. Bi	as Res., 1	80 ohms	6DC6
6DE4	Half-Wave Rectifier	C10b	н	6.3	1.6	Television Damper Service	IV.		Heater-Ca Heater-Ca	thode Vol	ts500	(DC Con	nponent N		ed 900 Ve		6DE4
6DE6	Sharp-Cutoff Pentode	BD	н	6.3	0.3	Class A Amplifier	200	Cath. Bias	150	2,8	9.5	0.6%	6200	Cath. Bi	ias Res., 1	80 ohma	6DE6

Light Face = Discontinued type

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

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

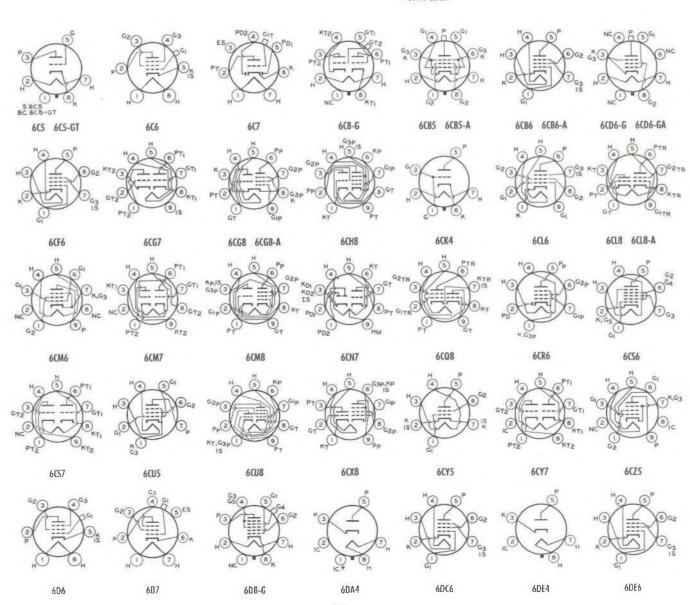
Three vertical rules before or after type No. = Miniature type having either 7 or 9 pins.

For key to tube dimensions and, legend for base and envelope connection diagrams, see page 37.

- Either ac or de may be used on filament or heater, except as specifically noted. For use of de on ac filament types, decrease stated grid volta by ½ (approx.) of filament voltage.
- · Heater has controlled warm-up time for series-string operation.
- Supply voltage applied through 20000-ohm voltage-dropping resistor.

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

- ♥ Applied through plate resistor of 100000 ohms.
- § Megohms. Grid # 2 tied to plate.
- A For two tubes
- ** For grid of following tube.
- √ With separate excitation and triode unit grounded.
- a 50000 ohtns.



RCA Type	Name	Tube Di- men- sions		ithode ind Rai		Values to right give operating conditions and thoracteristics for indicated typical use	Plate Sup- ply Volts	Grid Bias a Valk	Screen Sup- ply Volts	Screen Cur- rent Ma	Plate Cur- rent Ma.	AC Plate Resis- tance	Trans- conduc- tance (Grid-Plate)	cation	Load for Stated Power Output Ohms	Power Out- put Walts	RCA Type
	Dual Triode					Vertical Deflection Oscillator (Umt No. 1)		Peak Neg Peak Catl	Pulse Gr	rid Valts, 77	400 Max. 1	DC Plate Vo	Max.	Plate Dissi	pation, L	5 watts	
6DE7	With Dissimilar Units	B12	Hin	6.3	0.95	Vertical Deflection Amplifier and No. 2	Max	Peak Pos. Peak Neg Peak Catl	. Pulse G:	id Volts,		bs.)		. Plate Di . DC Plat			6DE7
6DG6-GT	Beam Power Tube	C2s	н	6.3	1.2	Class A Amplifier	110 200	- 7.5 Cath. Res 180 ohms		2.2	49 16	13000 28000	R000 8000		2000 4000	3.8	6DG6-G
6DK6	Sharp-Cutoff Pentode	B0	н	6.3	0.3	Class A Amplifier	125	Cath. Bias	1	3.8	12	350000	9800	Cath. I	Вівя Вся.,	56 ohms	6DK6
6DN6	Beam Power	E	н	6.3	2.5	Horizontal/Deflec- tion Amplifier		DC Plate DC Catho				Max. Peak				00 (Abs.)	6DN6
	Tube				-	Vertical Deflection	Max	Peak Neg.	-Pulse Gr	id Volts,	400	Max Plate		Plate Di		1 wati	
6DN7	Dual Triode With Dissimilar Units	CO	н	6.3	0.9	Vertical Deflection Amplifier Uni No. 2	Max. Max	DC Plate Peak Pos. Peak Neg. Peak Cath	Pulse Pla	te Volts. id Volts,	2500 250		Max	Plate Dis	sipation,	IO watts	6DN7
6DQ5	Beam Power Tube	D11	Н	6.3	2.5	Horizontal Deflec- tion Amplifier	Max	DC Plate DC Catho	Volts, 900)		Max. Pcak Max. Plate				00 (Abs.)	6DQ5
6DQ6-A	Beam Power Tube	D6	н	6.3	1.2	Horizontal Deflee-	Max	DC Plate	Volta, 700)		Max. Peak	Positive F	ulse Plate	Volts, 601	JU (Aba.)	6DQ6-A
						Vertical Deflection	Unit	No. 1: Max	. DC Pla	te Volts.	330		ax Peak I	NegPulse	Grid Volt	s, 4UU	
6DR7	Dual Triode: With Dissimilar Units	Bla	н	6.3	0.9	Oscillator Vertical Deflection Amplifier	Unit Max.	Peak Cath No. 2: Mar Peak Pos Plate Diss	Pulse Pla	te Volts. te Volts,	275 1500	M	ax. Peak I	Dissipation Vcg ·Pulsc Dathode M	Grid Volt	в, 250	6DR7
6DS5	Beam Power	B1	н	6.3	0.8	Class A Amplitier	200	7.5	200	3	35	28000	6000	-	6000	3	6DS5
6DTS	Tube Bram Power	Bla	н	6.3	1.2	Vertical Deflection		- 8.5 DC Plate			29	Max. Peak			8000 Volts, 220	3.8 0 (Abs.)	6DT5
	Sharp-Cutoff					Amplifier Class A Amplifier		Peak Cath		2.1	1.1	Max. Plate 150000		Cath. B	ias Res., S	emdo 00i	
6DT6	Pentude	80	Н	6.3	0.3	FM Detector	250	Cath. Bias	100	5.5	0.22			- 6; Cath. Resistor, 2:			6DT6
6DT8	High-Mu Twin Triodes	BDa	н	6.3	0.3	Class A Amplifler	100 250		as Res., 2		3.7	15000 10900	4000 5500	60 60		_	6DT8
6E5	Electron-Ray Tube	D4	н	6.3	0.3	Visual Indicator	Grid Plate	& Target S Biss, - 4.0 & Target S	lupply = 1 volts; Sh lupply = 2	125 volts. iadow An 150 volta.	Triode P gle, 0°. Triode F	late Resistor Bias, 0 volts late Resistor	r = 1.0 me r; Angle, 9 r = 1.0 me	0°; Plate g. Torget C	Current,	0.1 ເກລ. 2.0 ເກລ.	6ES
6 E 6	Twin-Triode	D12a	н	6.3	0.6	Push-Pull	180	- 20.0	VOIES; 51	IAUOW Att	Pov	Bias, 0 volts er Output is	s for one to	abe at	15000	0.75	6E6
6E7	Power Amplifier Remote-Cutoff	D13a	н	6.3	0.3	Class A Amplifier	250	-27.5	Fic	or other c		tated plate- istics, refer t			14000	1.60	6E7
	Pentade Triode—			0.0	0.0	Triode Unit as	150	Cath.		or bener e	18	5000	8500	40	Cath. B	ias Res.,	0251
6EA8	Pentade Converter	B0a	He	6.3	0.45	Class A Amplifier Pentode Unit as Class A Amplifier	125	Hias — 1	125	4	12	80000	6400		36 0	hms	6EA8
6EB8	High-Mu Triade— Sharp-Cutoff Pentode	Bla	н	6.3	0.75	Trinde Unit as Class A Amplifier Pentode Unit as Class A Amplifier	250 200	- 2 Cath. Bias	125	7	2 25	37000 75000	2700 12500	100 Cath. B	lias Res.,	68 olims	6EB8
6EH5	Power Pentode	ВІ	н	6.3	1.2	Class A Amplifier	110	Cath Res.,	115	I1.5	42	11000	14600		8000	1.4	6EH5
	Medium-Mu					Triode Unit as	125	62 ohma	_		13.5		7500	40			
6EH8	Triode- Sharp-Cutoff Pentode	601	He	6.3	0.45	Class A Amplifier Pentode Unit as Class A Amplifier	125	- 1	125	4	I 2	170000	6000		-	_	6EH8
6EM5	Benn Power Tube	Coa	н	6.3	8.0	Vertical Deflection Amplifier	xeM	DC Plate 1 Peak Cath	ode Ma.,			Max. Peak Max. Plate	Dissipution	n. 10 watts		0 (Ahs.)	6EM5
6EW6	Sharp-Cutoff	Bo	м	6.3	0.4	Class A Amplifier Class A Amplifier	250 125	-18 Cath. Bias	250 125	3.2	36	200000	5100 14000	8.7	lias Res .	56 ohma	6EW6
OLUVO	Pentade			0.0	4.7	Class A 211tipulet	100	- 1.0	180	3.4	0.4	85000	1150	100	dao aveo ,	JO OHIMA	OLVIO
6F5-GT	High-Mu Triodes	C1 C2o	н	6.3	0.3	Class A Amplifier	250 90 = 300 =		as. 8800 o as. 3200 o		0.9 Grid R	66000 caistor, **0.	5 megohm	Gain r	per stage	= 43 = 63	6F5 6F5-GT
6F6		C2a				Penkide 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	6 F 6
6F6-G	Power Pentodes	Dile	н	6.3	0.7	Triode Class A Amplifier	250	- 20.0	_		31.0	2600	2600	6.8	4000	0.85	6F6-G
6F6-GT	, modes	CID				Pentode Push-Pull Class A Amplifier	315 315	Cath. Bias -24.0	285 285	12.04 12.04		Cath. Bias	Resistor, 3	20 ohms	10000	10.5† 11.0‡	6F6-GT
	M 11 M					Triode Unit as	100	J - 3.0	263	12.04	3.5	16000	500	8	10000		
6F7	Medium-Mu Triode	09	н	6.3	0.3	Pentode Unit as	100	min. [- 3.0]	IOD	1.6	6.3	290000	1050				6F7
	Remate-Cutoff Pentade			0.0	015	Class A Amplifier Pentode Unit as	250 250	-10.0	100	0.6	2.8			olta - 7.0			
6F8-G	Twin-Triode	DB	н	6.3	0.6	Mixer Each Unit as	100	10.0				Conver		scond. = 3	300 micro	mhos.	6F8-G
6FG6	Amplifier Electron-Ray	856	н	6.3		Class A Amplifier Visual	_		_		_	_					6FG6
6FV6	Tube Sharp-Cutoff	B0	н		0.27	Indicator Class A Amplifica	125	- 1	80		10	100000		Jr. 40.			6FV6
6FW8	Tetrode Medium-Mu	BOa	н	6.3	0.2	Class A Amplifier Each Unit as			60	1.5			8000	70			6FW8
	Twin Triode Power Amplifier		-	6.3	0.4	Class A Amplifier Pentode	125	- 2 - 6.0	135	2.0	15	2600 170000	12500 2100	33	12000	0.6	
6G6-G	Pentode	D3	Н	6.3	0.15	Class A Amplifier Voltage	180	- 9.0 C Supply	180	2.5	15.0	175000	2300	fax. DC O	10000	1.1	6G6-G
6H6	Twin Diodes	A1b	н	6.3	0.3	Doubler Half-Wave	Min. T		Plate-Sup	ply Impe		late: half-wa	ve, 30 ohn	ns: full-war	ve. 15 ohn	D8.	6H6
5H6-GT		C3				Rectifier		C Plate Vo						Plate-Sup hms; at 15			6H6-GT
615-GT	Medium-Mu Triodes	B3 C3	н	6.3	0.3	Class A Amplifier	90 250	- 8.0			10.0	6700 7700	3000 2600	20 20	=	=	6J5 6J5-GT
616	Medium-Mu	90	н	6.3	0.45	Each Unit as Class A Amplifier	100		de Resistor nits, 50 o	hais	8.5	7100	5300	38			6J6
	Twin Triode					Push-Pull Class C Amplifier	150	-10.0		cs., 220 oth units	30.0		rent, 16 m Power, 0.35			3.5	-20

RCA Type	Name	Tube Di- men-		thode		Use Values to right give approxing conditions and characteristics for	Plate Sup- ply	Grid Bias =	Screen Sup- ply	Screen Cur-	Plate Cur- rent	AC Plate Resis- Innce	Trans- conduc- tance (Grid-Piale)	Amplifi- cation Factor	Lond for Stated Power Outpost	Pawer Out- put	RCA Type
		sions	C. T.	Velts	Amp	Indicated typical usa	Volts	Volts	Volts	Ma.	Ma.	Olims	, enlives		Ghms	Watts	
637		C1				Pentode Class A RF Amplifier	100 250	- 3.0 - 3.0	100 100	0.5	2.0	1.0§ 1.0+§	1185 1225		_		6.17
6J7-G	Sharp-Cutoff Pentodes	DB	н	6.3	0.3	Pentoda Class A AF Amplifier	90 × 300 ×					or = 1.2 me or = 1.2 me		6J7-G			
6J7-GT		C3				Peninde Bias Detector	250	- 4.3	100		Current ma.	_	Die Die Coopen (
530.0	Triade-	Da	н	5.3	0.3	Triode Unit as Oscillator	100 250 m		Grid Resi		4.0 5.8			ptode-Grid			5 TO C
6]8-G	Heptode Converter	0.3	0.3	Heptode Unit as Mixer	100 250	- 3.0 - 3.0	100 100	3.0	1.4	900000		n Transcor			6J8-G		
6K5-GT	High-Mu Triode	C3	14	6.3	0.3	Class A Amplifier	250	- 3.0	_		1.1	50000	1400	70			6K5-GT
	Paner		н			Single-Tube Class A Amplifier	250 315	-18.0 -21.0	250 250	5.5	39.0 25.5	90000	2380 2100	_	7600 9000	3.40 4.50	5K0 07
6K6-GT	Pentode	C2x	н	6.3	0.4	Push-Pull Class A Amplifier	285 285	-25.5 Cath. Bias	285 • 285	9.0♠		Cath Bias	Resistor, 4	00 ohms. 4	12000 12000	10.59	6K6-GT

Light Face = Discontinued type

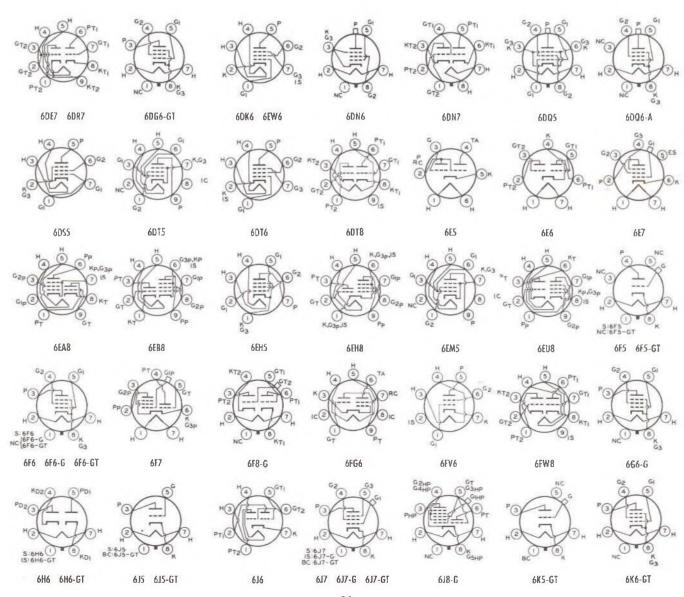
One vertical rule before or after type No. = GT or other larger glass type.

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

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

- Rither 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 ½ (approx.) of filament voltage.
- Heater has controlled warm-up time for series-string operation.
- × Applied through plate resistor of 250000 ohms.

- ₹ Supply voltage applied through 20000-ohm vultage-dropping resistor.
- § Megohms.
- for two tubes.
- † Power output is for two tubes at stated plate-to-plate load.
- ** For grid of following tube.



RCA Type	Name	Tube Di- men- sions		thode ind Rat		Use Values to right give aperating conditions and characteristics for indicated typical use	Plate Sup- ply	Grid Bias =	Screen Sup- ply Yolk	Screen Cur- rent Ma	Plate Cur- rent Ma.	AC Plate Resis- tance	Trans- conduc- tance (Grid-Plate)	Amplifi- cation Factor	Load for Stated Power Output Olims	Power Out- put Watts	RCA Type
6K7	Remote-Cutoff	Cl				Class A Amplifier	250	- 3.0	125	2.6	10.5	600000	1650			-	6K7
6K7-GT	Pentodes	C3	Н	5.3	D.3	Mixer Service	250	-10.0	160				_	Peak Vol	9 - 7.0	-	6K7-GT
6K8		C1				Triode Unit as	100	Grid Re	a., 50000) ohms	3.8	Triode-0	Grid & He	xode-Grid	Current, (0.15 ma.	6K8
6K8-G	Triode-Hexode Converters	DB	н	6.3	0.3	Oscillator Fiexode Unit	100	- 3.0	100	6.2	2.3	400000				micromhos.	6K8-G
6K8-GT	Medium-Mu	C10				as Mixer	250 135	- 3.0 - 5.0	100	6.0	3.5	11300	Conversio 1500	n Transcol	nd , 350 m	nicromhos.	6K8-GT
6L5-G	Triade	D3	H	6.3	0.15	Class A Amplifier	250	- 9.0	_	-	8.0	9000	1900	17		-	6L5-G
6L6		D7				Single-Fube Class A Amplifier	250 250	- 14.0 Cath. Bias	250 250	5.4	72.0 75.0	Cath. Bias	Resistor.	168 ohms.	2500 2500	6.5	6L6
6L6-G	Beam Power Tubes	E2	н	6.3	0.9	Push-Pull Class A Amptitier	270 270	-17.5 Cath. Bias	270 270		134.04		Resistor 1	24 nhms 🛖	5000 5000	17.5†	6L6-G
6L6-GB	1-2-11	D6				Push-Pull	360	-22.5	270	5.04	88.04				6600	26.5†	6L6-GB
					_	Class AB, Amplifier	360	Cath. Bias	270	5.0	88.0	Cath Bies Oscilla	tor-Grid (I	No. 3) Bias	, -10 vo	24.51 1ts.	
6L7	Pentagrid Mixensh	C1 DB	Н	6.3	0.3	Mixer Service	250	- 3.0	100	7.1	2.4	Grid-N Conve	lo. 3 Peak mion Trans	Swing, 12 scond., 375	volta min	imum.	6L7
6L7-G		Do				Class A Amplifier	250	- 3.04	100	6.5	5.3	600000	1100	_			6L7-G
6N6-G	Direct-Coupled Power Triode	Dite	H	6.3	0.8	Class A Amplifier	Tno	de: Plate V	olts, 300:	Grid Vo	Its, 0; A-	r., 45; Losd. F Signal Vo	, 7000 obn le (Peak),	21; Plate	Input Ma., 8.	4.0	6N6-G
6N7	High-Mu Twin Power	Cža	н	6.3	0.8	Class A Amplifier (ns Driver)2	250 294	- 5.0 - 6.0	_	-	6.0 7.0	11300 11000	3100 3200	35 35	20000 or more	exceeds 0.4	6N7
6N7-GT	Triodes	CZc	n	0.0	0.0	Class R Ämplifier	300	0	Power	Output (at stated p			8000	10.0	6N7-GT
6P5-GT	Medium-Mu Triode	C2c	Н	6.3	0.3	Amplifier Detector			F	or other c	haracter:	stics, refer t	o Type 76				P5-GT6
6P7-G	Triode- Pentade	D8	Н	6.3	0.3	Amplifier and Converter			F	or other o	haracteri	stics, refer t	o Type 6F	7.			6P7-G
6Q7	Twin-Diode	C1			Λ -	Triode linit as	100	- 1.0		_	0.8	58000	1200	70			6Q7
6Q7-GT	High-Mu Triodes	63	н	6.3	0.3	Class A Amplifier	250 300=	- 3.0 Cath. Bias	. 3000 of	ms.	Grid Re	58000 sistor, ** 0,3	1200 megohm	70 Ga	in per sta	ge = 45	6Q7-GT
6R7	Twin-Diode	C1				Triode Unit os	250	- 9.0		_	9.5	8500	1900	16	i	Ī —	6R7
6R7-GT	Mediam-Mu Triodes	08 C2t	Н	6.3	0.3	Class A Amplifier	300♥	Cath. Bias	, 5000 ol	nns.	Grid Res	ristor, ***0.2	2 megohm	Ga	in per sta	ge = 12	6R7-GT
6S4	Medium-Mu		н			Vertical Deflection		C Plate Vo				Max. Pcsk					6S4
6 S 4-A	Triode	BIA	НФ	6.3	0.6	Amplifier		C Cathode				Max. Plate					654-A
657 6S7-G	Remote-Cutoff Pentodes	C1	н	6.3	0.15	Class A Amplifier	135 250	- 3.0	67.5 100	0.9 2.0	3.7	1.08	1250 1750		_		6S7-G
	Triple-Diode	D8				Triode Unit as	100	- 3.0 - 1.0	100	2.0	0.4	110000	900	100		_	
6S8-GT	High-Mu Triode	C9a	Н	6.3	0.3	Class A Amplifier	250	- 2.0	_	_	0.9	91000	1100	100			6S8-GT
6SA7 6SA7-GT	Pentagrid Converters	83 C3	н	6.3	0.3	Mixer	100	Self- Excited	100	8.5 8.5	3.3	500000 1.0§	Grid-No.	1 Resistor on Transco	. 20000 ob	ima.	65A7 65A7-G7
6SB7-Y	Pentagrid	83	н		0.3	Mixer	100	- 1.0	100	10.2	3.6	500000		1 Resistor			6SB7-Y
	Converter▲	81	-	6.3	0.3	Each Luit as	250	- 1.0	100	10.0	3.8	1.08	Conversion	on Transco	nd., 950 r	micromhos	
6SC7	High-Ma Twin- Triode Amplifica	B3	Н	6.3	D.3	Amplifier	250	- 2.0			2.0	53000	1325	70			6SC7
6SF5	High-Mu	83	н	6.3	0.3	Class A Amplifier	100 250	- 1.0 - 2.0	-	-	0.4	85000 66000	1150 1500	100	-	-	6SF5
6SF5-GT	Talades	C2r				1	300 m	Ceth. Bis	es. 3200 d	shm9.	Grid Re	aistor, ** 0.3	megohm.	Ga	in per sta	ige = 53	6SF5-G1
6SF7	Diode- Remnte-Cutoff	E3	н	6.3	0.3	Pentode Unit as Class A Amplifier	100 250	- 1.0 - 1.0	100	4.3	13.5	200000 700000	1975 2050	-			65F7
6SG7	Pentode Remote-Cutoff	na.					100	- 1.0	100	3.2	8.2	25000D	4100	_	_	-	65G7
	Pentode Sharp-Cutoff	B3	H	6.3	0.3	Class A Amplifier	250 100	- 2.5 - 1.0	150	3.4	9.2	1.0+§ 350000	4000 4000	-	-	-	
6SH7	Pentisde	B3	Н	6.3	0.3	Class A Amplifier	250	- 1.0	150	4.1	10.8	000000	4900				65H7
6SJ7-GT	Sharp-Cutoff	B3"	н	6.3	0.3	Class A Amplifier	100 250	- 3.0 - 3.0	100	0.9	2.9 3.0	700000 1.0+§	1575 1650	-	-	-	65J7 65J7-G7
	Printodes	C3					300 ₩	Cath. Bis				sistor, ** 0.		Ga	in per ata	age = 167	
65K7 65K7-GT	Remote-Cutoff Pentodes	E3	Н	6.3	0.3	Class A Amplifier	100 250	- 1.0 - 3.0	100	4.0	13.0	120000 800000	2350 2000	-	-	_	65K7 65K7-G1
6SL7-GT	High-Mu	C2c	н	6.3	0.3	Each Unit as	250	- 2.0		_	2.3	44000	1600	70	_	_	65L7-G1
	Twin Triede					Class A Amplifier Each Unit us	90	0	-	_	10.0	6700	3000	20		_	
6SN7-GT SN7-GTA	Medium-Mu	Cite	H	6.3	0.6	Class & Amplifier Vertical Deflection	250	- 8.0 DC Plate V	olte den	Mor	9.0	7700 ssipation: S	2600	20	S watte be		6SN7-GT
SN7-GTB	Twin Trindes		He			Amplifier +	Мах.	Peak Catho	de Ma.	0 Max	Peak Pos	sitive Pulse	Plate Volts	9, 1500	_ = at(8 190	I places	6SN7-GT
6SQ7	Twin-Diode High-Mu	83	н	5.3	0.3	Triode Unit as	100 250	$-1.0 \\ -2.0$	_	_	0.5	110000 85000	925 1175	100 100			65Q7 65Q7-G1
6SQ7-GT	Triodes Duplex-Diode	CS				Class A Amplifier Triode Unit as	300 ₩	Cath. Bis	s. 3900	ohms.		sistor, ** 0.			in per sta	1	
6SR7	Triode	63	Н	6.3	0.3	Class A Amplifier	250	~ 9.0	_		9.5	8500	1900	16	10000	0.3	6SR7
6557	Remote-Cutoff Pentule	83	н	6.3	0.15	Class A Amplifier	100 250	- 1.0 - 3.0	100	3.1	12.2 9.0	120000	1930 1850	_	-	-	6557
6ST7	Duplex-Diode Triode	83	н	6.3	0.15	Triode Unit as						stics, refer		BR7.			651.7
6SZ7	Twin-Diode	83	н	6.3	0.15	Triode Unit as	100	- 1.0	_	-	0.8	61000	1150	70	_	-	6SZ7
	High-Mu Triode			-10	- , - 0	Class A Amplifier Oscillator in UMF		DC Plate			1.0	58000		70 Grid Ma			
6T4	Medium-Mu Triode	Al	н	6.3	0.225	TV Receivers Class A Amplifier		DC Cathor	de Ma., 3	0	18		Max.	Plate Dist	ipation, 3	.5 watts	6T4
6T7-O	Twin-Diode	DB	н	6.3	0.15	Triode Unit as	250	- 3.0	-		1.2	62000	1050	65			6 T 7-G
	High-Mu Triode				2.12	Class A Amplifier	300 m		98, 4580	ohms.		esistor, ** 0			in per sta	age = 40	6T8
6T8-A	Triple-Diade High-Mu Triode	BOa	He	6.3	0.45	Triode I nit as Class A Amplifier	100 250	- 1 - 3			0.8	54000 58000	1300 1200	70 70			6T8-A
6U5	Electron-Ray	D4	н	6.3	0.3	Visual Indicator	Grid	Bias, - 18.5	volts; St	adow A:	gle, 0°. B	late Resistor	Angle, 90	c; Plate C	urrent. 0.	19 ma.	6U5
	Tube					Indicator						ate Resistor					
6U7-G	Remate-Cutoff	D13	н	6.3	0.3	Class A Amplifier	250	- 3.0	100	2.0	8.2	800000	1600		-	-	6U7-G
	Pentade Medium-Mu					Mixer Service Triode Unit as	250	- to.o Cath.	100		10	4000		Peak Volt	a = 7.0 Cath.	Res.,	
6U8	Triode- Sharp-Cutoff	B0a	H	6.3	0.45	Class A Amplifier Pentode Unit as	150	Bies Cath.			18	5000	8500	40		hnis	6U8-A
6U8-A	Pentodes		He			Class A Amplifier	250	Bies	110	3.5	10	400000	5200		68 a	hrns	000-M
											W (Abs.)			Cathode V		50°(Abs.)	

RCA Type	Name	Tube Di- men-		ithode		Values to right give operating conditions and characteristics for indicated hypiral use	Plata Sup- ply	Grid Bias -	Screen Sup- ply	Screen Cur- ren!	Plate Cur- rent	AC Plate Resis- tance	Trans- conduc- tonce (Grid-Plate)	Amplifi- cation Factor	Load for Stated Power Output	Pawer Out-	RCA Type
		sions	C. T.	Velts	Amp.	montared sypical use	Yalls	¥6f4s	Volts	Ma,	Ma.	Olems	andm.,		Ohmos	Watts	
6V6	Bram	Ĉ2∋			0.45	Single-Tube Class A Amplifier	250 315	-12.5 -13.0	250 225	4.5	45.0 34.0	50000 80000	4100 3750		5000 8500	4.5	6V6
6V6-GT	Power Tubes	C2¢	н	6.3	0.45	Push-Pull Class AB, Amplifier	250 285	-15.0 -19.0	250 285	5.0 4	70.0	50000 70000	3750 3600		10000	10.01	6V6-GT
6V7-G	Duplex-Diade Triode	DB	н	6.3	0.3	Triode Unit as			Fe	or other cl	narocteni	stics, refer t	о Тург 85				6V7-G
6W4-GT	Half-Wave Rectifier	C2c	н	6.3	1.2	With Capacitive- Input Filter		AC Plate V				DC Output Peak Plate					6W4-GT
6W6-GT	Beam Power	Cžr	н	6.3	1.2	Vertical Deflection		DC Plate 'Plate Dissi				Max. Peak Max. Peak					6W6-GT
6W7-G	Sharp-Cutoff Pentode	80	н	6.3	0.15	Class A Amplifier	250	- 3.0	100	0.5	2.0	1.5%	1225	-	-	-	6W7-G
CVA	Full-Wave		н	6.7	0.6	With Capacitive- Input Filter		AC Volts p Peak Inver				DC Outpo			Feet. Sup oer Plate.		6X4
6X4	Rectifier	Bii	н	6.3	0.6	With Inductive- Input Filter		AC Volte p Peak Inve			Maz	DC Output. Peak Plate	it Ma., 70	Min. Va	lue of Ir	put	684

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

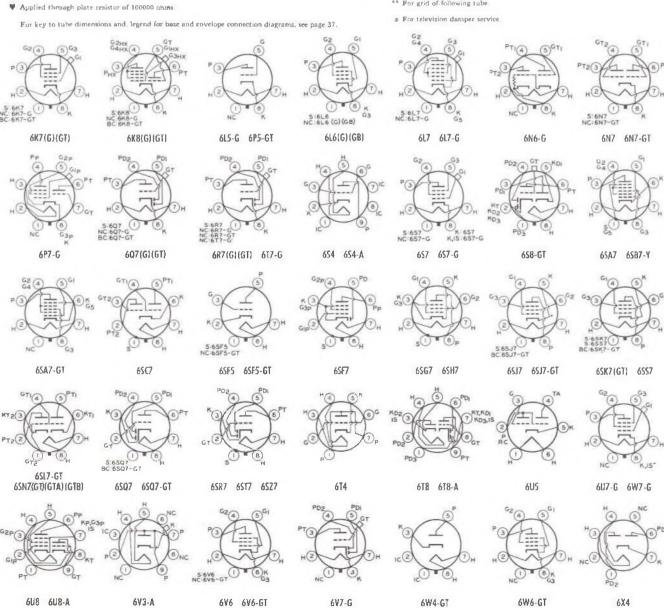
Two vertical rules before or after type No. = Mctal type.

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

Light Face - Discontinued type

- · Heater has controlled warm up time for series string operation.
- ▲ Grids = 2 and = 4 are screen. Grid # 3 is signal-input control grid.
- A Grids # 2 and # 4 are screen. Grid # 1 is signal-input control grid
- * Applied through plate resistor of 250000 ohms.

- Note 1: Subscript 1 on class of amplifier service (as AB,) indicates that grid current does not flow during any part of input cycle.
 - Either ac or de may be used on filament or heater, except as specifically noted. For use of de on he filament types, decrease stated grid volts by ⅓ (approx.) of filament voltage.
 - † Power output is for two tubes at stated plate-to-plate load.
- § Megohina.
- A For two tubes.
- 4 For signal-input control-grid (= 1); control-grid = 3 bias, -3 volts.
- 6 Both grids connected together; likewise, both plates.
- ** For grid of following tube.



RCA Type	Name	Tube Di- men- sions		athode and Ra		Values to right give operating conditions and characteristics for indicated typical use	Pinte Sup- ply	Grid Bias =	Screen Sup- ply Volts	Screen Cur- rent Ma	Plate Cur- rent Ma.	AC Plate Resis- tance Ohms	Trans- conduc- tance (Grid Plate)	Amplifi- cation Factor	Load for Stated Power Output Ohms	Power Out- put Watts	RCA Type
6X5 6X5-GT	Full-Wave Rectifiers	C2c	н	6.3	0.6	With Capacitive- Input Filter With Inductive- Input Filter	Max.	AC Volts Peak Inve AC Volts Peak Inve	rse Volts, per Plate (erse Volts,	1250 RMS), 43 1250	Mar 0 Mar	DC Outp	e Ma:, 21 ut Ma., 70	0 Imped. Min. Vi	per Plate	, 520 ohms put Cholor,	6X5 6X5-G
6X8	Triode- Pehtodo Converter	Būn	н	6.3	0.45	Triode Unit as 250-Mc. Oscillator Pentode Unit as Mixer 1	150	Grid Cu Grid-No Mixer C	sistor, 270 irrent, 3.6 o. 2 Valts, orid-No. 1	ma. 150 Supply V	Pow	.5 Mix	Approx.), volts at Ber Grid-No.	dixer Grid	or, 120000	amno (6X8
6¥5	Full-Wave Rectifier	05	Н	6.3	0.8	With Capacitive- Input Filter		Plate Ci	irrent, 6.2	Max.		per Plate (version Tra RMS), 350		Tance, 210	10 µmhos	6¥5
6Y6-G 6Y6-GA	Beam Power Tube	D11c C11a	н	6.3	1.25	Single-Tube Class A Amplifier	135	-13.5 -14.0	135	3.5	58.0	9300 18300	7000 7100		2000 2600	3.6	6Y6-G
6Y7-G	Twin-Triode	D3	н	6.3	0.6	Class B Amplifier	200	34.0	1		-	stics, refer t			2000	0.0	6Y7-0
6 Z 5	Amplifier Full-Wave Rectilier	DS	н	6.3	0.8	With Capacitive- Input Filter						per Plate (RMS), 230				6Z5
627-G	Twin-Triode Amplifier	Da	н	6.3	0.3	Class B Amplifier	135 180	0		IVIBX. I	Pow	er Output is			9000	2.5	6Z7-0
6ZY5-G	Full-Wave Rectifier	D3	н	6.3	0.3	With Capacitive- Input Filter	Mex. A				Max. I	C Output leak Plate B	Ma., 40	Min. T	otal Effec		6ZY5-
7A4	Medium-Mu Triode	85	н	6.3	0.3	Amplifier	148.04. 2	Cax Inven				stics, refer t			per riate,	EJ OIIIIS	7A4
7A5	Beam Power Tube	£2	н	6.3	0.75	Class A Amplifier	110	- 7.5 - 9.0	110 125	3.0	40.0	16000 17000	5800		2500 2700	1.5	7AS
7A6	Twin Dinde	BS	Н	6.3	0.15	Detector Rectifier	-	AC Volta			-		x. DC Out	put Curre			7A6
7A7	Remate-Cutoff Pentade	B5	н	6.3	0.3	Class A Amplifier			F	or other c	haracteri	stica, tefer I	to Type 6S	K7.			7A7
7 A 8	Öctode Converter	BS	н	6.3	0.15	Converter	100 250	- 3.0 - 3.0	75 100	2.7	1.8	650000 700000	4.2 ma. C	scillator-0	Grid (# 1)	Resistor a . micromhos.	7A8
7AD7	Powee Pentode	C2	н	6.3	0.6	Class A Amplifier	300	Cath. Bias	150	7.0	28.0	300000	9500		Res., 68	obnis	7AD7
7AF7	Medium-Mu Twin Triode	B5	н	6.3	0.3	Each Unit as Class A Amplifier	250 100	-10 Cath. Bi	88 Res., 60	00 ohnis	9.0	7600 6500	2100 2600	16 17	=	=	7AF7
7AG7	Sharp-Cutoff Pentode	6 5	Н	6.3	0.15	Class A Amplifier	250	Cath. Bias	250	2.0	6.0	1 meg.	4200	Catl	hode-Bias 250 ohms		7AG7
7AH7	Remote-Cutoff Pentode	95	н	6.3	0.15	Class A Amplifier	250	Cath. Bias	250	1.9	6.8	1 meg.	3300	Cath.	Res., 250	ohms	7AH7
7AU7	Medium-Mu Twin-Triode	80.a	He H	3.5	0.6	Euch Unit us Class A Amplifier	100 250	- 8.5	=	=	11.8	6500 7700	3100 2200	20 17			7AU7
7B4	High-Mu Triode	85	Н	6.3	0.3	Amplifier			F	or other e	haracteri	stics, refer t	о Туре 6S	F 5.			7B4
785	Power Amplifier Pentode	C2	Н	6.3	0.4	Class A Amplifier			F	or other c	haracteri	stica, refer t	o Type 6K	6-GT.			7B5
7B6	Twin-Diode High-Mu Triade	B9	Н	6.3	0.3	Triode Unit as Amplifier			F	or other c	haracteri	stics, refer t	о Туре 6S	Q7.			7B6
7B7	Remote-Cutoff Pentode	B5	Н	6.3	0.15	Class A Amplifier	250	- 3.0	100	1.7	8.5	750000	1750	-	-		787
7B8	Pentagrid Converters	85	н	6.3	0.3	Converter			Fo	or other c	haracteri	ities, refer t	a Type 6A	8.			7B8
7C5	Ream Power Tube	C2	н	6.3	0.45	Class A Amplifier			F	or other c	haracteri:	stics, refer t	o Type 6V	6-GT.			7C5
7C6	Twin-Diode High-Mu Triode	85	н	6.3	0.15	Triode Unit as Class A Amplifier	250	- 1.0	_	_	1.3	100000	1000	100	_	-	7C6
707	Sharp-Cutoff Pentude	B5	н	6.3	0.15	Class A Amplifier	100 250	- 3.0 - 3.0	100	0.4	1.8	1.28	1225 1300				7C7
7 E 6	Twin-Dinde Triode	85	н	6.3	0.3	Triode Unit as					-	tics, refer t		7.		•	7 E 6
7E7	Twin-Diode Remote-Cutoff Pentode	95	Н	6.3	0.3	Pentode Unit as Class A Amplifier	100 250	Cath. Bias	100	2.7	10.0 7.5	150000 700000	1600 1300		Res., 800 Res., 330		7E7
7F7	High-Ma Twin-Triode	85	н	6.3	0.3	Euch Unit as Amplifier			Fe	r other c	haracteri	stics, refer t	о Туре 6S	L7-GT.			7F7
7F8	Medlum-Mu Twin-Triode	806	Н	6.3	0.3	Each Unit as Class A Amphifier	250		ode-Bias F	₹es.,	6.0	_	3300	48	_	-	7F8
7G7	Sharp-Cutoff Pentode	86	н	6.3	0.45	Class A Amplifier	250	- 2.0	100	2.0	6.0	800000	4500		_	_	7G7
7H7	Sharp-Cutoff Pentode	BS	н	6.3	0.3	Class A Amplifier	100 250	- 1.5 Cath. Bias	100 150	2.6	7.5	350000 800000	4000 4000	Cath. B	lias Res.,	180 ohnis	7H7
	Triode-Heptode					Triode Unit as Oscillator	100 250 h	Triode	-Grid Res	istor,	3.2 5.0	Triode-C	and & Hep	tode-Grid	Current,	0.3 ma.	
7,17	Converter	85	Н	6.3	0.3	Heptode Unit	100	- 3.0 - 3.0	100	2.5	I.5 1.4	500000	Conversi	on Transc	ond., 280	μπhos.	7,17
7K7	Twin-Diode- High-Mu Trinde	65	Н	6.3	0.3	Triode Unit as Class A Amplifier	250	- 2	-	_	2.3	44000	1600	70			7K7
7L7	RF Amplifier Pentode	85	Н	6.3	0.3	Class A Amplifier	100	- 1.0 - 1.5	100	2.4	5.5 4.5	100000 1.0§	3000 3100			_	7L7
7N7	Medium-Mu Twin-Triode	CS	н	6.3	0.6	Each Unit as Class A Amplifier						es, refer to		7-GT			7N7
707	Pentagrid Converter	B 5	н	6.3	0.3	Converter	100 250	- 2.0 - 2.0	100	8.5 8.5	3.3	500000 1.0§		Resistor,			7Q7
7R7	Twin-Diode-	85	Н	6.3	0.3	Pentude Unit as	100	- t.0	100	2.2	5.5	350000	3000				7R7
7S7	Pentode Triode-Heptode	B5	н	6.3	0.3	Closs A Amplifier Triode Unit as Oscillator	250 100 250	50	Orid Res		5.7 3.0 5.0	Triode-Gr	3200 id & Hept id & Hept	ode-Grid	Current,	0.4 ma.	757
	Converter			5.5	010	Heptode Unit as Mixer	100 250	- 2.0 - 2.0	100	3.0	1.9	500000 1.25§		on Transcon Transc			131
7V7	RF Amplifier Pentude	B5	Н	6.3	0.45	Class A Amplifier	300		150	3.9	10.0	300000	5800	Cath. B	ias Res.,	160 ohms	7V7
7W7	RF Amplifier Pentude	85	Н	6.3	0.45	Class A Amplifier			F	or other o		stics, refer					7W7
7X7	Twin Dinde— High-Mu Trinde	C2	н	6.3	0.3	Triode Unit us Class A Amplifier	100 250	- 1.0		=	1.2	85000 67000	1000 1500	85 100		=	7X7
7¥4	Full-Wave Rectifier	85	н	6.3	0.5	With Capacitive- Input Filter		C Volts pe			Max.	DC Outpu		Min. 7 Imped.		ct. Supply , 150 ohms.	7Y4
7 Z 4	Full-Wave Rectifier	C2	н	6.3	0.9	With Capacitive- Input Filter	Max. A	C Volts pe	r Plate (R	MS), 325	Max.	DC Outpu Pcak Plate	t Ma., 100	Min. T	otal Effec		7Z4
8AU8	Medium-Mu Triode— Sharp-Cutoff	Bla	He	8.4	0.45	Triode Unit as Class A Amplifier Pentode Unit as	150	Cath. Bis	125	0 ohms	9.3	7200 14000D	5600	40	lina Res.	-	8AU8
	Poutode High-Mu Triode					Class A Amplifier Triode Unit as	200	Bias – 2	143	3.6	4				las Res.,	DA OUNTRB	-
BAW8-A	Sharp-Cutoff Pentode	B1a	Но	8.4	0.45	Class A Amplifier Pentode Unit as Class A Amplifier	200	Cath. Bias	150	3.5	13	17500 400000	9000	70 Cath. Bi	as Res., 1	80 ohms	BAW8-A

RCA Type	Name	Tube Di- men-		athode		Use Values to right give operating conditions and characteristics for indicate typical use	Plate Sup- ply	Grid Bias =	Screen Sup- ply	Screen Cur- rent	Plate Cur- rent	AC Plate Resis- tance	Trans- conduc- tonce (Grid-Plate)	Amplifi- cation Factor	Load for Stored Power Output	Power Out- put	RCA
		sions	C. T.	Valts	Amp	monated slibital ar	Yofk	₹010¥	Volts	Ma	Ma	Dhms	"mhas		Dhms	Watts	
8BH8	Medium-Mu Triode—	814	на	8,4	0.45	Friode Unit us Class A Amplifier	150	- 5	_	_	9.5	5150	3300	17		_	00140
овпо	Sharp-Cutoff Pentode	gii,		6.4	0.43	Pentode Unit as Class A Amplifier	200	Cath. Bias	125	3.4	15	150000	7000	Cath. Bi	an Rcs., 8	2 ohms	8BH8
8BN8	Twin Diode— Hjgh-Mu Triode	Bla	На	8.4	0.45	Triode Unit as Class A Amplifier	100 250	- 1 - 3		_	1.5	21000 28000	3500 2500	75 70		\equiv	8BN8
	Beam Power					Class A Amplifier	250	- 7.3	250	5.5	48	38000	11300		4500	5.7	
8 B Q5	Tube	CDo	He	8.0	0.6	Push-Pull Class AB, Amplifier	250 300	Cath. Bias	250 300	7	62 4		8 Res., 13		8000 8000	11† 17†	8BQ5
8CG7	Medium-Mu	Bla	не	8.4	0.45	Horizontal Deflec- tion Oscillator	Max.	DC Plate 'Peak Neg.	Pulse Gri	d Volts, 4	00 Ma	x. Peak Ca x. DC Cath	. Ma., 20	Max. I	Dissipation	(watts):	8CG7
8001	Twin Triode	2.0		4.4	0.45	Vertical Deflection Oscillator		DC Plate 'Peak Neg.				x. Peak Ca ax. DC Catl		O for hor	h plates.		SCG1
	Dual Triode					Vertical Deflection		DC Plate				ak Cath. Ma			DC Cath.		
8CM7	With Dissimilar	Bla	He	8.4	0.45	Vertical Deflection		Peak Neg DC Plate 1			U			late Dissip			8CM7
	l.'níta					Amplifier a se vo. 2:		Peak Posit			ts, 2200	(Abs.)		Neg Puls Max Peak			
8CN7	Twin Diode— High-Mu Triode	BDe	He	4.2 8.4	0.45	Trinde Unit as	100 250	- 1 - 3			1.8	54000 58000	1300	70 20			BCN7

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

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

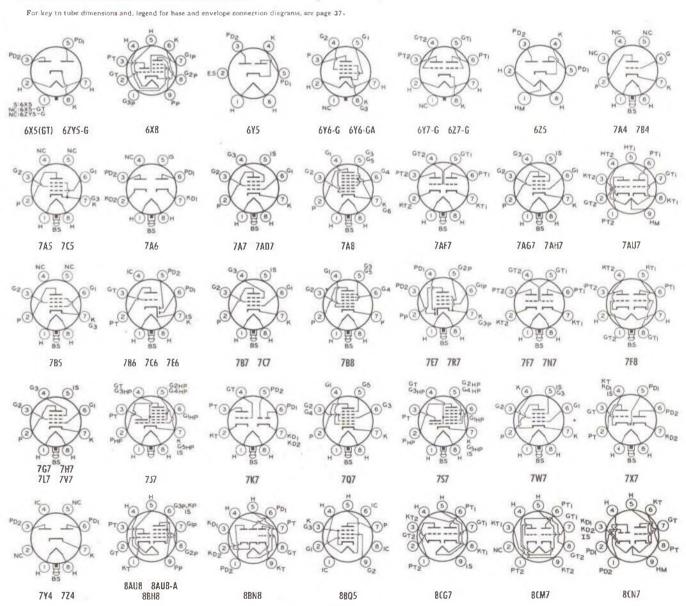
Three vertical rules before or after type No. = Miniature type having either 7 or 9 pins.

- 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 ½ (approx.) of filament voltage.
- Heater has controlled warm-up time for series-string operation.
- ▲ Grids = 2 and = 4 are screen. Grid = 3 is signal-input control grid.
- Grids # 3 and # 5 are screen. Grid # 4 is signal input control grid.

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

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

- § Megohms. Light Face = Discontinued typé.
- · Por two tubes.
- † Power output is for two tubes at stated plate-to-plate load.
- a 50000 ohms



RCA		Tube				Use	Plate		Screen	Screen	Plate	AC Plate	Trans- conduc-	Amplifi-	Load for Stated	Power	(RCA)
Туре	Name	Di- men- sions		thode nd Ro		Values to right give operating conditions and characteristics for indicated typical use	Sup- ply	Grid Bias III Yoks	Sup- ply Volts	Cur- rent Ma.	Cur- rent	Resis- tance	fance Grid-Plate	cation Factor	Pawer Output Ohros	Out- pul Watts	Туре
	Medium-Mu		6. 1.	FUILS	вынр.	Triode Unit as	150	Cath. Bis	-	-	9.2	8700	4600	40			
8CX8	Triode- Sharp-Cutoff	Bla	He	8.4	0.6	Class A Amplifler Pentode Unit as	200	Cath.	125	5.2	24	70000	10000	Cath. B	ias Res.,	68 ohms	8CX8
	Pentode High-Mu Triode-					Class A Amplifier Triode Unit as	250	Bias.			2	37000	2700	100			
8EB8	Sharp-Cutoff Pentode	81a	He	8.0	0.6	Pentode Unit as	200	Cath. Bias	125	7	25	75000	12500	Cath. B	ias Res.,	68 ohms	8EB8
						Class A Amplifier Vertical Deflection	Max.	DC Plate 1	Volts, 315			Max. Penk	Positive-P	ulse Plate	Volts, 220	0 (Abs.)	
8EM5	Beam Power Tube	C0a	He	8.4	0.6	Amplifier Class A Amplifier	Max. 250	Peak Cath	250	210	36	Max. Plate	Dissipation 5100	n, 10 watts 8.7	R		8EM5
9 AU 7	Medium-Mu	80a	He H	4.7	0.45	Each Unit as	100	- 8.5	-		11.8	6500 7700	3100 2200	20 17	_	-	9AU7
9 BR 7	Twin Triode	803	He	4.7	0.6	Triode Unit as	100	Cath. Big			3.7	15000	4000	60 60			9BR7
	High-Mu Triode Medium-Mu		Н	9.4	0.3	Class A Amplifier Tetrode Unit as	125		as Res., 5		15	5000	8000	(67)			
9CL8	Triode— Sharp-Cutoff	803	He	9.5	0.3	Class A Amplifier Triode Unit as	125	- 1	125	4	12	100000	5800				9CL8
	Tetrode Medium-Mu	-	-			Class A Amplifier Triode Unit as	150	Cath. Bi	as Res., 5	6 ohms	18	5000	8500	40			
9U8-A	Triode— Shurp-Cutoff	BOa	He	9.45	0.3	Class A Amplifier Pentode Unit	250	Cath.	110	3.5	10	400000	5200				9U8-A
100	Pentode Power Amplifier	50		2.5	Y 05		350	B:ss -32.0			16.0	5150	1550	8.0	11000	0.9	10@
10@	Triode High-Mu	E3a	F	7.5	1.25	Class A Amplifier Triode Unit as	425	-40.0	- D - 20	DO - L	18.0	12000	1600	53	10200	1.6	10-
10C8	Triode— Sharp-Cutoff	Būa	He	10.5	0.3	Class A Amphilier Pentode Unit as	250	Cath. Bis			7.3		-		D	00	10C8
	Pentode					Class A Amplifier Vertical Deflection	135	Bias Peak Neg.	Pulsa Gr	3.2	11.5	190000	8000 Max	Penk Cati	ias Res., 1		
10DE7	Dual Triade With Dissimilar	Bla	На	9.7	0.6	Oscillator (Calc No. 1)	Max.	DC Plate V	Volts, 330)		ath, Ma., 17	Max.	Plate Disa	sipation, 1	.5 watts	10DE7
1001	Units	0.0				Amplifier to So 1)	Max.	Peak Positi	ve-Pulse	Plate Volt	s, 1500	otti, 1448-, 17		ak NegPı			
	Dual Triode					Vertical Deflection Oscillator Test Sv. 1	Max.	Peak Neg. DC Plate	Volts, 350				М	ax. Plate I	Dissipation	o, I watt	11077
11CY7	With Dissimilar Units	Bla	He	11	0.45	Vertical Deflection	Max.	Peak Pos Peak Neg.	Pulse Gr	d Volts,			Max.	Plate Dise	Volts, 350	.5 watts	11CY7
44	Detector #	03-	-	-		Amplifier (Past No. 2)		Peak Cath	ode Ma.,	120	2.5	15500	425	6.6	1		11
11 12	Amplifier Triode	D2a D12	D.C.	1.1	0.25	Class A Amplifier	135	- 4.5 -10.5	_	-	3.0	15000	440	6.6	_		12
12A5	Power Amplifier Pentode	D5	н	6.3	0.6	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	12A5
				7710	0.2	Pentode Unit as Class A Amplifier	135	-13.5	135	2.5	9.0	102000	975		13500	0.55	1017
12A7	Rectifier- Pentode	D9	Н	12.6	0.3	Half-Wave				Plate Vol				125 Vol:	s, RMS		12A7
12A8-GT	Pentugrid	CJ	н	12.6	0.15	Rectifier		IVERNI		Output C		istics, refer	to Type 6.		ванирился		12A8-G
	Converter 6	00	-	10.0	0.2	Class A Amplifier	250	Cath. Bias	_	1.6	33.5		as Res., 2		6000	3.3	124 DE
12AB5	Beam Power Tube	Bla	Н	to 15.9	approx.	Push-Pull Class AB, Amplifier	250	-15.0	250	5.0♠	70.04	60000	3750		10000	10.0†	12AB5
12AC6	Remate-Cutoff	80	н	10.D	0.15 approx.	Class A Amplifier	12.6		12.6	.2	.55	500000		Grid-No. I			12AC6
1246	Pentode ©	00	-	15.9	at 12.6 v	Citas it impilies	78.0				-			Grid-No. 1	_		
12AD6	Pentagrid Converter ©	80	н	to 15.9	0.15 approx. at 12.6 v	Converter	12.6	Self- excited	12.6	1.5	0.45	1 §	Grid-No. Conversio	n Transco	33000 oh nd., 260 m	icrumhos	12AD6
12450	Twin Diode Medium-Mu	B0	н	10.0	0.15	Triode Unit as	12.6	0			0.75	15000	1000	15			12AE6
12AE6	Triode	BV	, n	15.9	approx. at 12.6 v	Class A Amplifier	12.0	-				15000	1400				
12AE6-A	Twin Diode- Medium-Mu	80	Н	10.0 to	approx.	Triode Unit as Class A Amplifier	12.6	0	_		I	13000	1300	16.7			12AE6-A
12AF3	Triode ① Half-Wave	C2h	На	15.9	0.6	Television		Peak Inver			0			z. Average			12AF3
	Rectifier Remote-Gutoff	-		10.0	0.15	Damper Service	Max.	Peak Plate			0.0	200000		x. Plate D Grid-No. 1			12850
12AF6	Pentade O	80	Н	15.9	врргов. вt 12.5 v	Class A Amplifier	12,6		12.6	0.3	0.8	300000	1230	Grid-No.	Res., 2.2	megahms	12AF6
2AH7-GT	Twin Triode	COb	н	12.6	0.15	Each Unit as Class A Amplifier	100 180	- 3.6 - 6.5	_		3.7	10300 8400	1550 1900	16 16		-	12AH7-G
12AJ6	Twin Diode Medium-Mu	80	н	10.0 to	0.15 approx	Triode Unit as Class A Amplifier	12.6	Grid-No.	1 Supply	Volta, 0	0.75	45000	1200	55			12AJ6
12AL5	Triode O Twin-Diode	A1	Н	15.9	0.15	Detector-Rectifier		(14t).			13	istics, refer	to Type 6	ALS.			12AL5
22723	1 will-resond	.41			0.13	Triode Unit as Class A Amplifier	12.6	Grid Bia		9	.5	13000	1000	13		-	
12AL8	Medium-Mu Triode—	Bla	н	10.0 to	0.15 approx.			Grid-No.	2 (Conts	rol Grid) 1	Volts	.5	Ampl. Pa	actor (Gric	I-No. 2 to	Plate) 7.2	12AL8
	Power Tetrode O			15.9	at 12.6 v	Tetrode Unit as Class A Amplifier		Grid-No.	2.2 megohr 1 (Space	-Charge (Grid) Vo	lts, 12.6 5000 µmhos	Grid-No.	1 Ma. 75	Plate emrio 08	Ma., 40	
12AQ5	Beam Power	81	н	12.6	0.225	Amplifier		4181134.04				ristics, refer					12AQ5
12AT6	Tube Twin-Diode	BO	н	12.6	0.15	Triode Unit as				_		istics, refer					12AT6
12AT7	High-Mu Triode	BOn	н	6.3	0.3	Class A Amplifier Each Unit as	100	Cath. I	Res., 270	ohms	3.7	15000	4000	60			12AT7
12AU6	Twin-Triode Sharp-Cutoff	80	н	12.6	0.15	Class A Amplifier Class A Amplifier	250	Cath. I	Res., 200 e		10.0	10900 istics, refer	\$500 to Type 6/	60 AU6.			12AU6
12AU7	Pentode Medium-Mu	-		6.3	0.13	Each Unit As	100	0	_	- Jakir C	11.8	6500	3100	20	-		12AU7
12AU7-A	Twin-Triodes	Būa	Н	12.6	0.15	Class A Amplifier Horizontal Dellec-	250	- 8.5 DC Plate	Vales ero		10.5	7700 Max. Peak	2200	17	Volta 550	00	12AU7-
2AV5-GA	1 noc	Dla	He	12.6	0.6	tion Amplifier		DC Catho	de Ma., 1	10		Max. Plate	Dissipatio	n, 11 watt		-	12AV5-G
12AV6	Twin-Diode High-Mu Triode	BO	Н	12.6	0.15	Triode init as Class A Amplifier					haracter	istics, refer	to Type 6	AV6.			12AV6
	Medium-Mu Twin-Triode	80a	н	6.3 12.6	0.45 0.225	Each Unit ns Class A Amplifier	150		ode Biss : 56 chms	Res.,	18	48000	8500	41	Cutoff \	/olts, - 12	12AV7
12AV7																	400 140
12AV7 12AW6	Sharp-Cutoff Pentade	00	Н	12.6	0.15				F	or other o	character	istics, refer	to Type 64	AGS.			
12AW6	Sharp-Cutoff Pentade	00 C2c	H	12.6	0.15	Television Damper Service	Max.	Peak Inve Peak Plate DC Plate	ree Plate Ma., 75	Volts, 440		Max. Peak	Heater-Ca	athode Vol	-300		12AX4-G
12AW6 12AX4-GT 12AX4-	Sharp-Cutoff Pentade Half-Wave		н				Max.	Peak Plate	ree Plate Ma., 75	Volts, 440		Max. Peak	Heater-Ca	athode Vol	+300		12AW6 12AX4-G 12AX4- GTA 12AX7

RCA Type	Name	Tube Di- men-		ithode		Use Values to night give operating conditions and characteristics for indicated typical use	Plote Sup- ply	Grid Bias =	Streen Sup- ply	Screen Cur- rent	Plate Cur- rent	AC Plate Resis- tance	Trans- canduc- tance (Grd-Ptate)	Amplifi- cation Factor	Load for Stated Power Output	Power Out- put	RCA Type
		Sions	£. T.	Vells	Amp.	malbarra rypedi ave	Valts	Volts	Volts	Ma	Ma.	Dhms	, mhos		Ohms	Walls	
12AZ7	High-Mu Twin-Trimle	B0.ı	Н	6.3 12.6	0.45 0.225	Each Unit as Class A Amphilier	10i) 250	Cath. Bia			3.7	15000 10900	4000 5500	50 50			12AZ7
12B4-A	Low-Ma Triode	Bia	He	6.3	0.6	Vertical Deflection Amplifier	Max	DC Plate Peak Posit Peak Dissi	ive-Pulse	Plate Vol	ts, 1000		Max. Pea	k Neg -Pul k Cathode rage Catho	Ma. 105		12B4-A
LADU OT	Triode-	240				Triode Unit as Class A Amplifier	90	0	-	_	2.8	37000	2400	90		_	1000 07
12B8-GT	Pentode	C10a	Н	12.6	0.3	Pentode Unit as Class A Amplifier	90	- 3.D	90	2.0	7.0	200000	1800	-	_	_	12B8-G7
12BA6	Remote-Cutoff Pentode	BD	Н	12.6	21.0	Class A Amplifier			F	or other c	huracteri	stics, refer 1	to Type 61	3A6.			12BA6
12BA7	Pentagrid Converter	Bla	н	12.6	0.15	Converter			Fo	r other cl	ıaracteri	stics, refer t	o Type 6E	BA7.			12BA7

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

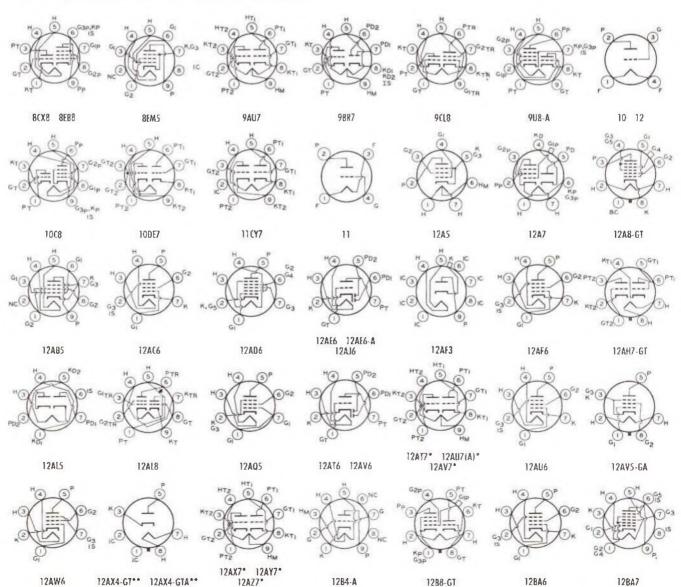
Three vertical rules before or after type No = Miniature type having either 7 or 9 pins.

Light Face - Discontinued type-

- Either ac or de may be used on filament or heater, except as specifically noted. For use of de on ac filament types, decrease stated grid volta by ½ (approx.) of filament voltage.
- · Heater has controlled warra-ttp time for series-string operation.
- © For use in automobile receivers which operate directly from 12-volt storage batteries.
- ▲ Grids = 2 and = 4 are screen. Grid = 3 is signal-input control grid.
- □ Grids = 3 and = 5 are screen. Grid = 4 is signal-input control grid.
- Applied through plate resistor of 250000 ohms.

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

- & Megohina
- For two tubes
- Power output is for two tubes at stated plate to-plate load.
- ★ For Grid leak Detection—plate volts, 45; and return to + filament or to cathode.
- 4" For grid of following tube
- @ Superseded by 10-Y. See Power and Gas Tubes Booklet PG-101D.



[.] Heater for section 2 between pins 4 and 9; for section 1 between pins 5 and 9.

^{. .} On the 5-pin bases, pin I as well as pin 4 and 6 is omitted

RCA	Name	Tube Di- men- sions		othode and Re		Use Values to Hight give operating conditions and characteristics for indicated Syptical use	Plate Sup- ply	Grid Bios ■ Vells	Screen Sup- ply Valls	Screen Cur- rent Ma.	Plate Cur- rent	AC Plate Resis- tance Ohms	Trans- conduc- tance (Grid-Plate)	Amplifi- cation Factor	Load for Stated Power Onlight	Power Out- pul Wats	RCA
12BD6	Remote-Cutoff	80	н	12.6	0.15	Class A Amplifier	10.0	100.5				istics, refer		BD6.			12BD
12886	Pentode Pentagrid	80	Н	12.6	0.15	Converter	-		_			istics, refer t					12BE
11000	Converter▲ Twin-Diode	80	-	12.0	0.15			Ī		-							-
12BF6	Mediam-Mu Triode	80	Н	12.6	0.15	Triode Unit as Class A Amplifier	250	- 9.0	_	_	9.5	8500	1900	16	300 mil	Output, liwatts	12BF
12BH7 12BH7-A	Medium-Mu Twin-Triodes	Bla	H He	6.3	0.6	Vertical Deflec- tion Amplifier		DC Plate DC Plate				Absolute M Max. Plate					12BH7-
12BK5	Beam Power Tube	Bla	н	12.6	0.6	Class A Amplifier	250	- 5	250	3.5	35	190000	8500	_	6500	3.5	128K
12BL6	Remote-Cutoff	80	н	10.0 to	0.15 approx.	Class A Amplifier	12.6	Grid-No. 1 Supply	12.6	0.5	1.35	500000	1350	for to	renscond		12BL6
12BQ6- GTB/ 12CU6	Benni Power Tuhe	C11	He	15.9	0.6	Harizontal Deflec- tion Amplifier		DC Plate DC Catho				Max. Peak l Max. Plate		ulse Plate			12BQ6 GTB, 12CU
12BR7	Twin-Diode High-Mu Triade	Bna	н	6.3	0.45	Triede Unit as Class A Amplifier	100	Cath Bis	8 Res., 27	0 ohms	3.7	15000	4000 5500	60 60			12BR7
12BV7	Sharp-Catoff	Bla	н	6.3	0.6	Class A Amplitier	250	Cath Bias	150	Б	27	85000	13000	Cath. E	lias Res.,	68 ohms	12BV7
12BY7	Pentode Sharp-Cutoff	B1a	н	6.3	0.5	Class A Araphiber	250 250	- 8 Cath.	180	5.75	0.5 ¥	93000	um Plate		Res., 100	ohme	12BY
12BY7-A	Pentodes High-Mo		He	12.6	0.3	Fach Unit as	-	Bias	100	3.73				-	Kes., Iou	GIUNS	12BY7-
12BZ7	Twin Triode	Bla	н	12.6	0.3	Class A Amphilier Pentade Unit as	250	- 2		100	2.5	31800	3200	100			12BZ7
12 C 8	Twins Diode Remote-Cutoff Pentode	C1	н	12.6	0.15	RF Amplifier Pentode Unit as AF Amplifier	250 90 m 300 m					600000 or = 1.1 n or = 1.2 m			Gain per	stage = 55	
12CA5	Beam Power Tube	81	Не	12.6	0.6	Class A Amplifier	110 125	- 4 1.5	110 125	3.5 4.0	32 37	16000 15000	8100 9200		3500 4500	1.1	12CA5
12CN5	Remote-Cutoff	B1	н	10.0	0.45 approx	Class A Amplifier	12.6		12.6	3.5	4.5	40000	3800	Grid-No.	Supply V	/olta, 0	12CN
12CR6	Pentade © Diode Remote-Cutoff	80	н	15.9	0.15	Pentode Unit as	250	- 2	100	2.6	9.6	800000	2200	Grid-No. 1	Volts fo	r trans	12CR6
	Pentode Medium-Mn		-			Class A Amphilier Triode Unit as	150	Cash Bio	. Pag. 16	0 0 000	0	9200		cond. of 10	micronin	05, -32	
12CT8	Triode— Sharp-Cutoff Pentode	BDa	He	12.6	0.3	Class A Amplifier Pentode Unit as Class A Amplifier	200	Cath. Bis	s Res., 15	3.4	9	8200 150000	4900 7000	Cath B	ias Res., 8	12 ohms	12CT8
12CU5	Beam Power Tube	B1	не	12.6	0.6	Class A Amplifier	120	- 8	110	4	49	10000	7500		2500	2.3	12CU
12CU5/ 12C5	Beam Power Tube	BI	на	12.6	0.6	Class A Amplifier	120	- 8	110	4	49	10000	7500		2500	2.3	12CU5 12C5
12CX6	Sharp-Cutoff Pentode®	80	н	10.0	0.15 approx	Class A Amphilier	12.6	Grid-No. 1 Supply	12.6	1.4	3	40000	3100	Grid No.	1 Volts	for Plate	12CX6
12D4	Bull-Wave	G2c	не	15.9	0.6	Television		Volta, 0 Peak Inver		olts, 440	0 (Abs.)			Average P	late Ma.,	155	1204
	Rectifier Beam Power					Damper Service Vertical Deflec-	Max.	Peak Plate Peak Pos.	Pulse Plat			9.)		Plate Diss			
12DB5	Tube	Bin	He	12.6	0.6	tion Amplifier		Peak Neg. Peak Cath	ode Ma., 2	00			Max	DC Plate	Volts, 30	0	12DB5
12DL8	Twin-Dinde Power Tetrode ©	Bla	н	10.0 to 15.9	0.55 approx. at 12.5 v	Tetrode Unit as Class A Amplifier	12.6	Grid-No.	2 megohm r 1 (Space-C 1. (Grid-N	esistor) Charge Gr o. 2 to Pl	id) Volts late), 150	i, 12.6	Grid-No. Plate Re	1 Ma., 75	Plate	Plate) 7.2 Ma., 40	12 D L8
12DOC A	Ream Power	Dis	Не	12.6	0.6	Diode Units Horizontal Dellec-	Max.	DC Plate V		de Plate		h 10 Volts A			Volts, 6000	(Abs)	12D Q6-
12D Q6-A	Tube Power	-	Ha	5.3	0.6	tion Amplifier		DC Cathod			ľ	Viex. Plate I	Dissipation	n, 15 watts			-
12D Q7	Pentode	Bla	Н	12.6	0.3	Chas A Amplifier	200	Biss Grid-No.				53000	10500 Ampl. Fa	ector (Grid	ias Res., 6		12DQ7
12DS7	Twin-Biade Power Tetrode ©	Bla	н	10.0 10 15.9	0.4 approx. at 12.by	Tetrode Unit as Class A Amplifier	12.6	Grid-No.	. (Grid-N	barge Gr	rid) Volta late), 150	000 umhos	Plate Re		Plate 0 ohms	Ma., 40	12 D S7
12DT5	Ream Power	Bla	He	12.6	0.6	Diode Units Vertical Deflection		DC Plate	Jalts. 315		1	h 10 Volts A	ositive P	ulse Plate	Volts, 2204	(Abs)	12 DT 5
12DT8	Tube High-Mu	B0a	н	12.6	0.15	Amplifier Class A Amplifier	378X.	Peak Cath				Max. Plate 1 stics, refer to					12DT8
	Twin Triodes		-				Grid-l	No. 2 (Cont					-	or (Grid N	u. 2 to Ph	ite), 7.6	
12DV8	Twin Diode- Fower Tetrode D	Bla	н	10.0 10 15.9	0.375 approx at 13.6 v	Class A Amplifier	Grid-	No 1 (Space	e-Charge	esister) Grid) Vol	lts, 12.6	G	rid-No. 1	Ma., 53	Plate A		12DV8
12 DZ 6	Remate-Cinteff Pentade (5)	60	н	10.0	0.175	Class A Amplifier	12.6	cond. (Grid	12.6	2.4	4.5	30000	3800		itage deve megolim		12 DZ 6
12EA6	Sharp-Futoff Peatode ©	80	н	10.0 to	0.175 appros at 12.6 v	Class A Amplifier	12.6		12.6	1.4	3.2	32000	3800	Grid-No. I	Supply V	olts, 0	12EA6
12ED5	Beam Power Tube	81	He	15.9	0.45	Class A Amplifier	125	- 4.5	125	7	37	14000	8500		4500	1.25	12ED5
12EG6	Pentagrid Amplifier®	Bu	н	10.0 to	0.15 approx	Class A Amplifier	12.6	6 [†]	12.6	2.8	.55	150000	8001	Between Bias volt	age across		12EG6
12EH5	Power	Bi	не	15.9	D.6	Class A Amplifier	110	Cath. Res.	115	11.5	42	11000	14600	2.2 m	8000	1.4	12EH5
12EK6	Pentode Sharp-Cutoff Pentode⊙	R0	н	10.0	0.19 approx	Class A Amplifier	12.6	62 ohins	12.6	2	4,4	40000		Grid-No.	Supply Res (B)	Volts, 0	12EK6
1951.6	Twin Diode— High-Mu	80	ш	10.0	0.15	Class A Amplifier	12.6	0	-		.75	45000	1200	55	megohm	13	12EL6
12EL6	Triade	EU.	н	15.9	at 12.6 v	Diode Units						h 10 Volts A					TTELD
12EM6	Diode— Power Tetrode®	Bla	н	to to 15.9	0.5 app:nx at 125 v	Class A Amplifier Dinde Unit	12.6		12.6 Dio	1 de Plate	Ma_, wit	4000 h 10 Volts A		Grid No. 1 Ma	Res., 2.2 :	negohms	12EM6
12EN6	Beam Power	C2c	Не	12.6	0.6	Vertical Defler-		Peak Pos. I Peak Neg.						. Plate Di			12EN6
B- + 4 U	Eulie.		-			tion Amplifier		Peak Catho			-		*****				

RCA Type	Name	Tube Di- men-		athode		Use Yalves to right give operating conditions and characteristics for indicated typical use	Plate Sup- ply	Grid Bias =	Screen Sup- ply	Screen Cur- rent	Plate Cur- rent	AC Plate Resis- tance	Trans- conduc- tance Grid-Plate	Amplifi- cation Factor	Load for Stated Power Output	Power Out- put	RCA
		sions	E. T.	Volts	Amp.	lautoreu sypstal use	Volts	Volts	Volts	Ma.	Ma:	Ohms	, mhes		O hras	Walls	
12F8	Twin Diode Remote-Cutoff Pentade ©	B00	н	10.0 10 15.9	0.15 врупок. pt 12.6 v	Pentode Unit as Class A Amplifier	12.6	0	12.6	0.38	1	330000		Grid-No. 1 cond. of 1			12FB
12FK6	Twin Dinde Law-Mu Triode ()	80	н	10.0 to 15.9	0.15 approx. at 12.6 v	Triode Unit as Class A Amplifier	12.6	Grid R	upply Voles. (Bypa: 2 megohm	seed),	1.3	6200	1200	7.4			12FK6
12FM6	Twin Dinde—	BO	н	10.0 to	0.15 approx	Triode Unit as Class A Amplifier	12.6	0	_		1.8	5600	2400	13.5		_	12FM6
	THE STATE STATES			15.9	at 12.6 v	Diode Units			Di	ode Plate	Ma., wi	th 10 Volts	Applied, 2	Me.			
12H6	Twin-Diode	Alb	H	12.6	0.15	Detector Rectilier			Fo	r other ra	tings, re	fer to Type	6H6.				12H6
12J5-GT	Medium-Mu Triode	СЗ	н	12.6	0.15	Amplifier	r For other ratings, teler to Type onto.							12J5-GT			
12J7-GT	Sharp-Cutoff Pentode	C3	н	12.6	0.15	Amplifier			Fo	r other cl	haracteri	stics, refer t	o Type 6]	7.			12J7-GT

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

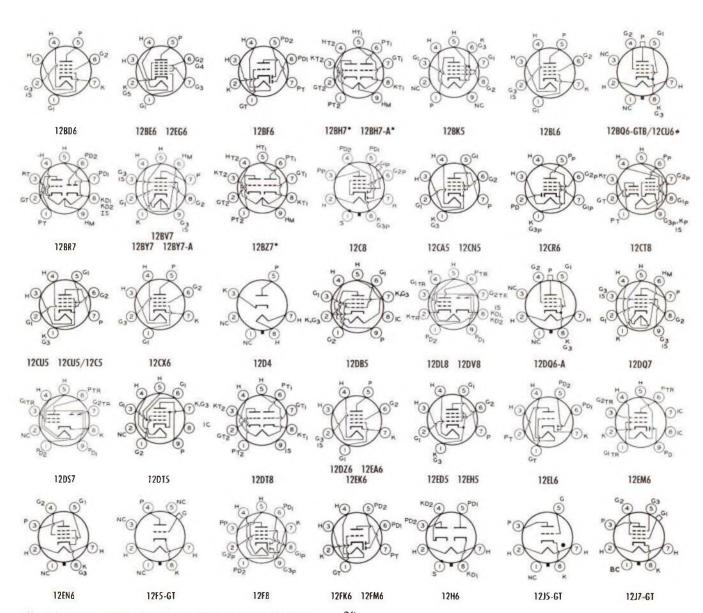
Three vertical rules before or after type No. = Miniature type having either 7 or 9 pins.

Light Face = Discontinued type.

For key to tube dimensions and, legend for base and envelope connection diagrams, see page 37.

Either ac or de may be used on filament or heater, except as specifically noted. For use of de on ac filament types, decrease stated grid volts by \(\frac{1}{20} \) (approx.) of filament voltage.

- For use in automobile receivers which operate directly from 12-volt storage batteries
- ▲ Grids # 2 and = 4 are screen. Grid # 3 is signal-input control grid.



RCA Type	Name	Tube Di- men-		thode		Use Yokes to right give operating conditions and (harocherlelics)or	Plate Sup- ply	Grid Bias 🔳	Screen Sup- ply	Streen Cur- rent	Plate Cur- rent	AC Plate Resis- tance	Trons- conduc- tonce (Grid-Plate)	Amplifi- cation Factor	Load les Stated Power Output	Power Out- put	RCA
		sions	C. T.	Volb 10.0	Amp. 0.325	- Indicated typical use	Amp	Volts	Volts	Ma	Ma	Ohros	"mhas		Obms	Watts	
12J8 	Twin-Dirde Power Tetrode ©	Būa	Н	15.9	approx. at 12.6 v	Tetrode Unit as Class A Amplifier	12.6	D	12.6	1.5	12	6000	5300	_	2700	0.02	1238
12K5	Power Tetrode©	61	н	10.0 to 15.9	0.4 approx. at 18.6 v	Class A Amplifier	Grid-	late Volts. No. 1 (Spa late Ma.,	ce-Charge		olis, 12.6		cation Fac	Plate Restor, Grid-No. 2 to P	No. 2 to E	Plate, 7.2	12K5
12K7-GT	Remute-Cutoff Pentude	C3	н	12.6	0.15	Amplitier			F	or other c	haracteri	stics, refer t	a Type 61	£7.			12K7-G
12K8	Triode-Heande	CI	н	12.6	0.15	Oscillator Mixer			F	or other c	haracteri	stics, nefer t	a Type 6	₹8.			12K8
12L6-GT	Beam Power Tube	C24	не	12.6	0.6	Class A Amplifier	110 200	- 7.5 Cath. Re		4.0	49 46	13000 28000	8000		2000 4000	2.1 3.8	12L6-G7
12Q7-GT	Twin-Diode High-Mu Triode	C3	н	12.6	0.15	Triode Unit as Amplifier		180 ahm:	8	_		atics, refer t		27.	4500	5.00	12Q7-G7
12R5	Ream Pawer	81	Не	12.6	0.6	Vertical Deflection Amplifier	Max.	DC Plate Peak Cati	hode Ma.	155		Max. Peak Max. Grid-l	No. 7 Volt	s. 150			12R5
12S8-GT	Triple-Diode High-Mu Triode	C9a	н	12.6	0.15	Friede Unit as Class A Amplifier	100 250	Plate Diss	sipation, 4	_5 watts	0.4	Max. Pcak . 110000 91000	900 1100	100 100	Volta, 151	00 (Abs.)	12S8-GT
125A7	Pentagrid	63	н	12.6	0.15	Mixer			P	or other c		stics, refer t					125A7
25A7-GT 12SC7	Converter ▲ Twin-Triode	E2c	н	12.6	0.15	Each Unit as			_			sties, refer t					125A7-G 125C7
	Amplifier	-	-	1210	GIII	Class A Amplitier	-			N Other C	riarac(Cri	stress react t	0 1 ypc 05				12SF5
125F5 125F5-GT	High-Mu Triode Diode-	63 G2c	Н	12.6	0.15	Class A Amplifier			F	or other ch	naracteris	tics, refer to	o Type 65	F5.			12SF5-G7
125F7	Remote-Cutoff Pentude	83	H	12.6	0.15	Pentode Unit as Amphilier			Fe	or other cl	haracteris	ties, refer to	o Type 6S	F7.			12SF7
125G7	Remote-Cutoff Pentode	B3	н	12.6	0.15	Class A Amplifier			F	or other cl	haracteris	tics, refer to	Type 6S	G7.			12SG7
12SH7	Sharp-Cutoff Pentode	83	Н	12.6	0.15	Class A Amplifier			F	or other cl	haracteris	tics, refer to	Type 6S	H 7.			125H7
125J7 12SJ7-GT	Sharp-Cutoff Pentodes	C3 B3	н	12.6	0.15	Class A Amplifier			Po	or other ch	naracteris	ties, refer to	Type 6S	J 7.			12SJ7-G7
12SK7 2SK7-GT	Remote-Cutoff Pentudes	R3 C3	Н	12.5	0.15	Class A Amplifier			F	or other cl	naracteria	tics, refer to	Type 6S	K7.			125K7 125K7-G
2SL7-GT	High-Mu Twin-Trinde	C2 c	н	12.6	0.15	Euch Unit as Amplifier			Po	r other ch	aracteris	ics, refer to	Type 6St	7-GT.			12SL7-G1
2SN7-GT	Medium-Mu Twin-Triode	G2c	н	12.6	0.3	Each Unit us Amplifier			Fo	r other ch	eracteris	ics, refer to	Type 6J5				12SN7-G
12SQ7 2SQ7-GT	Twin-Diade High-Mu Triode	B3 C3	н	12.6	0.15	Triode Unit as Amplifier			Fo	r other ch	arocteris	lics, refer to	Type 6S6	> 7.			125Q7 125Q7-G1
125R7 12SR7-GT	Twin-Diode High-Mu Triode	E3 C2e	н	12.6	0.15	Triode Unit as Amplifier			F	or other cl	haracteria	tics, refer to	Type 6S	R7.			12SR7 12SR7-G
12U7	Medigm-Mu Twin Triode	20a	н	10.0 to 15.9	0.15 approx at 12 fiv	Each Unit as Class A Amplifier	12.6	0	-	-	1	12500	1600	20			12U 7
12V6-GT	Beam Power Amplifier	C2e	н	12.6	0.225	Amplifier			F	or other cl	haracteris	tics, refer to	o Type 6V	6.			12V6-GT
12W6-GT	Beam Power Tube	C2c	He	12.6	0.6	Vertical Deflection Amplifier	Triode	Ma ction Ma	x. DC Pl					ation, 7.5		n (Abe)	12W6-G1
12X4	Full-Wave Rectifier	81	н	12.6	0.225		Conne	CHOR IVE				itics, refer to			VOITS, 120	(NOS.)	12X4
12Z3	Half-Wave Rectifier	D5	н	12.6	0.3	With Capacitive-		C Plate Vo				al Effective					
13DE7	Dual Triode With Dissimilar	81a	Ha	13.0	0.45	Vertical Deflection Oscillator diagnosis Vertical Deflection Amplifier that we made	Max. I Max. I Max. I Max. I	Peak Neg. DC Plate 'Peak Pos. Peak Neg. Peak Cath	Pulse Gri Volts, 330 Pulse Plat Pulse Gri	d Volts, 4 te Volts, 1 d Volts, 2	500	mis, at 130	Max. Max.	Peak, Cath Plate Dissi Plate Di DC Plate	node Ma., pation, 1 asipation,	77 .5 watts 7 watts	13 DE 7
14A4	Medium-Mu Triode	B5	н	12.6	0.15	Class & Amplifier					character	ístics, refer	to Type 6	Js.			14A4
14A5	Beam Power Tube	88	н	12.6	0.15	Class A Amplifier	250	-12.5	250	3.5	30	70000	3000		7500	2.8	14 A 5
14A7	Remote-Cutoff Pentode	B5	н	12.6	0.15	Class A Amplifier	100 250	- 1.0 - 3.0	100 100	4.0	13.0	120000 800000	2350 2000	_			14A7
14AF7	Medium-Mu Twin-Triode	B5	н	12.6	0.15	Each Unit as Class A Amplifier						ties, refer to		F 7.			14AF7
14B6	Duplex-Diode High-Mu Triode	85	н	12.6	0.15	Trinde Unit us Class A Amplifier			F	or other ch	naracteris	tics, refer to	n Type 6S	Q7.			14B6
14B8	Peatugrid Converter D	85	н	12.6	0.15	Converter			F	or other ch	naracteriz	tics, refer to	v Type 6A	в.			14138
14C5	Beam Power	C5	н	12.6	0.225	Class A Amplifier	180 315	- 8.5	180	3.0	29.0	50000	3700		5500	2	14C5
14C7	Sharp-Cutoff Pentade	B5	н	12.6	0.15	Class A Amplifier	223	-13	225 F	or other c	34.0 haracteri	77000 stics, refer t	3750 to Type 69	3]7.	RSOO	5.5	1407
14E6	Twin-Diode Triode	BS	н	12.6	0.15	Triode Unit as Class A Amplifier					_	sties, refer t					14E6
14E7	Twin-Dimle Remote-Cutoff	85	н	12.6	0.15	Pentode Unit as Class A Amplifier	100 250	Cath. Bias	100	2.7	10.0	150000 700000	1600'	Cath. 1	Res., 80 Res., 330	ohms	14E7
14F7	Pentode Twin-Triode Amplifier	BS	н	12.6	0.15	Each Unit as Class A Amplifier	-50	2,00				stics, refer t		-	aces JUII	ON 11 FEET	14F7
14F8	Medium-Mu Twin-Triode	80b	н	12.6	0.15	Euch Unit as Class A Amplifier	250		de Bias R	ts	6.0		3300	48			14F8
14H7	Remote-Cutoff Pentode	B5	н	12.6	0.15	Class A Amplifier		3		or other c	-	stics, refer t					14H7
14J7	Triode-Heatode	B5	н	12.6	0.15	Converter						stics, refer t		-			14J7
-	Twin-Triode	C2	н	12.6	0.3	Each Unit as				_		stica, refer t					14N7
14N7	Amplifier Pentagrid	BS	н	12.6	0.15	Class A Amplifier Converter					_	stics, refer t					14Q7
													360 30				
14N7 14Q7 14R7	Converter Twin-Diode	B5	н	12.6	0.15	Pentode Unit as			P	or other c	haracteri	stica, refer	to Type 7F	R7.			14R7
14Q7	Converter		H D.C.			Pentode Unit as Class A Amplifier 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	R7.			14 R7

RCA) Type	Name	Tube Di- men-		athode and Ra		Use Yalues to right give operating conditions and thoroxheristics for	Plate Sup- ply	Grid Bias =	Screen Sup-	Screen Cur- rent	Plate Cur- rent	AC Plate Resis- tance	Trans- conduc- tance (Grid-Plate)	Amplifi- cation Factor	Load for Stated Power Output	Pawer Out- put	RCA Type
		sions	C. T.	Yolks	Amp.	indicated typical use	¥ol1s	Yol4s	Volis	Ma.	Ma.	Ohms	"mhos		Ohms	Walls	
178 Q6- GTB	Beam Power Tube	C11	не	16.8	0.45	Horizontal Deflec- tion Amplifier										(Abs.)	17BQ6- GTB
17D4	Half-Wave Rectifier	C2c	Ha	15.8	0.45	Television Damper Service	Max. DC Csthode Ma., 112.5 Max. Plate Dissipation, 11 watts Max. Peak Inverse Plate Volts, 4400 (Abs.) Max. Average Plate Ma., 155 Max. Peak Plate Ma., 900 Max. Plate Dissipation, 5.5 watta								17 D 4		
17DE4	Half-Wave Rectifier	C10b	НФ	17.0	0.6	Television Damper Service	Max. I		er Cathod	e Volta, -	- 5000 (E	Max. P OC Componer C Componer	ent Not to				17DE4
17DQ6-A	Beam Power Tube	D6	He	16.8	0.45	Horizontal Deflec- tion Amplifier		OC Plate V				Max. Peak I Max. Plate I			olts, 6000	(.edA)	17DQ6-A
17H3	Half-Wave Rectifier	Bln	Ha	17.5	0.3	Television Danquer Service		Penk Inver)			Average Plate Di			17H3

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

Two vertical rules before or after type No. - Metai type.

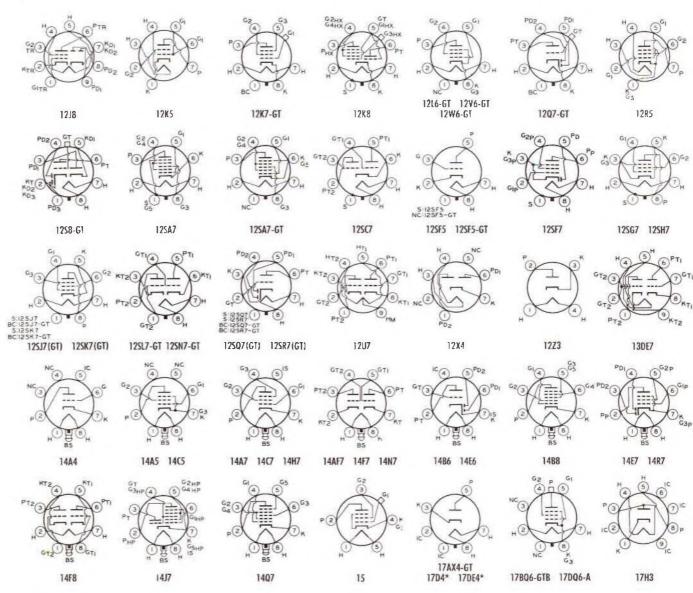
Three vertical rules before or after type No. - Miniature type having either 7 or 9 pins

Light Face - Discontinued type.

For key to tube dimensions and, legend for base and envelope connection diagrams, see page 37.

■ Either ac or de may be used on filament or heater, except as specifically noted. For use of de on ac filament types, decrease stated grid volts by ½ (approx.) of filament voltage.

- ▲ Grids = 2 and = 4 are acreen. Grid = 3 is signal-input control grid
- o Grids = 3 and = 5 are screen. Grid = 4 is signal-input control grid.
- For use in automobile receivers which operate directly from 12-volt storage batteries.



Type	Name	Tube Di- men- sions	a	ithode ind Rat	ing	Values to right give operating conditions and characteristics for indicated typical use	Piate Sup- ply	Grid Bias	Screen Sup- ply	Screen Cur- rent	Plate Cur- rent	AC Plate Resis- tance	Crid-Plats	Amplifi- cation Factor	Power Output	Power Out- put	RCA
4000	Benn Power		C. T.	Volts	Amp.	Horizontal Deflec-	Volts Max	DC Plate	Volta 350	Ma	Ma.	Ohms	"mhas Max. Peak	Pos Puls	Ohms C Plate Va	Wattis	-
18A5	Tube	C.S	Нф	18.5	0.3	tion Amplifier		DC Catho			-		Max Plate				18A5
18FW6	Semiremates Cutoff Pentode	80	Н	18.0	0.1	Class A Amplifier	100	Bias	100	4.4	11	250000	4400		Bias Res.,		18FW6
18FX6	Pentagrid Converter▲	Bu	Н	0.81	0.1	Converter	100	-1.5	100	6.2	2.3	100000	Conversion	No. 1 Resi on Transco	stor, 2000 and., 480 t	nicromhos o opuis	18FX6
18FY6	Bigh-Mu Triode	80	н	18.0	0.1	Triode Unit ios Class A Amplifier	100	-1		-	.6	77000	1300	100		_	18FY6
19	Twin-Triode Amplifier	D5	D.C.	2.0	0.26	Amplitier			F	or other	haracter	istica, refer	to Type 1J	6-G.			19
19 AU 4	Half-Wave Rectifier	C106	FIO	18.9	0.6	Television Damper Service		Peak Inve Peak Plate			00	Max.	Peak Heat DC Plate I component	Ma., 175	1	- 300	19AU4
19BG6-GA	Beam Power Tules	F _f	н	18.9	0.3	Horizontal Deflec- tion Amplifier		DC Plate				Max. Peak Max. Plate				0 (Abs.)	19BG6-GA
19J6	Medium-Mu Twin-Triode	80	н	18.9	0.15	Euch Unit as Class A Amplifier	100		ode-Bias I	Rcs.,	8.5	7100	5300	38	_		19J6
19 T 8	Triple-Diode	BO	н	18.9	0.15	Triode Unit as Class A Amplilier				or other	heracter	istics, refer	to Type 67	r8.		1	19T8
19X8	High-Mu Trinde Triode- Pentode	B0a	н	18.9	0.13	Glass A Ampillier						lics, refer to					19X8
20	Converter Power Amplifier	D1	D.C.	3.3	0.132	Class A Amplifier	90	-16.5			3.0	8000	415	3.3	9600	0.045	20
22	RF Amplifice	EI	D.C.	3.3	0.132	Screen-Grid	135	-22.5	45	0.6	1.7	725000	525 375	3.3	6500	0.110	22
	Tetrode BF Amplifier	-	F			RF Amplifier Serven-Grid	135	- 1.5 - 3.0	67.5	1.3*	3.7	325000 400000	1000				-
24-A 25A6	Tetrode Power Amplifier	E1 C2a	н	2.5	1.75	BF Amplifier	250 95	- 3.0 -15.0	9K1 95	1.74	4.0 20.0	600000 45000	1050 2000		4500	0.9	24-A 25A6
25A6-GT	Pentodes	C3	Н	25.0	0.3	Class A Amplifier	160	-18.0	120	6.5	33.0	42000	2375		5000	2.2	25A6-GT
25A7-GT	Rectifier	C3	н	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
2377, 02	Pentode			23.0	0.5	Holf-Wave Rectifier		AC Plate Peak Inve				DC Output Peak Plate			nce, 15 oh		25A7-G1
25AC5-GT	High-Mu Power Amplifier Triode	C3	н	25.0	0.3	Dymmic-Coupled Amp. With Type 6AE5-GT Driver	110	Averag Averag	e Plate C e Plate C	urrent of urrent of	Driver :	5-GT devel = 7 milliam FT = 45 mi	peres. lliamperes.		2000	2.0	25AC5-GT
25AV5-GA	Beam Power Tube	Dia	Н	25.0	0.3	Horizontal Deflec- tion Amplifier		DC Plate DC Catho					tate Dissip			M (Abs.)	25AV5-GA
25AX4-GT	Half-Wave Rectifier	E2c	н	25	0.3	Television Damper Service	Max.	Peak Inve Peak Plate DC Plate	e Ma., 75		00	Max.	Peak Heate	er-Cathode		- 4400 + 300	25AX4-G1
25B5	Direct-Caupted Power Amplifier	D10	н	25.0	0.3	Amplifier			F	or other o	haracter	istics, refer	to Type 25	N6 G.			25 B 5
25H6-G	Power Amplifier Pentode	D17g	Н	25.0	0.3	Class A Amplifier	105	-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	D3	Н	25.0	0.15	Triode Unit as Class A Amplifier Pentode Unit as	100	- 1.0 - 3.0	100	2.0	D.6	75000 185000	1500	112			25B8-GT
25BK5	Bram Power	Bla	н	25.0	0.1	Class A Amplifier					-				4500		25545
25BQ6-GT 25BQ6- GTB/ 25CU6	Beam Power Tubes	C11	н	25.0	0.3	Class A Amplifier Horizontal Deflec- tion Amplifier		DC Plate				haolute Ma Jax. Plate D			6500 sc Plate V	3.5 585, 6000	25BK5 25BQ6-GT 25BQ6- GTB/ 25CU6
25CS	Beam Power	BI	н	25.0	0.3	Class A Amplifier	120	- 8	110	4	49	10000	7500	-	2300	2.3	25C5
25C6-G	Tube Beam Power	Dile	н	25.0	0.3	Class A Amplifier				or other		istics, refer		/6-G			25C6-G
25CA5	Tube Beam Power	BI	н	25.0	0.3		110	- 4	110	3.5	32	16000	8100		3500	1.1	25CA5
25CD6-GA	Tube			23.0	0.3	Class A Amplifier	125	- 4.5	125	4	37	15000	9200		4500	1.5	
25CD6-GB 25DN6	Beam Power Tubes Beam Power	F1 E0	He He	25	0.6	Horizontal Dellec- tion Amplifier Horizontal Deflec-	Мах.	DC Plate DC Plate	Ma., 170			Max. Peak Max. Peak	Dissipatio	n, 15 Wat	ts .		25CD6-GA 25CD6-GB 25DN6
	Tube					tion Amplifier	1	DC Cathu Cath. Res			40	Max. Plate	Dissipation	n, 15 watt	8		-
25EH5	Pentade Beam	BI	Н	25.0	0.3	Class A Amplifier	110	62 ohms - 7.5	115	11.5	42 49.0	11000	14600 9000		800n 2000	2.1	25EH5
25L6	Power Tube Beam	C2R	н	25.0	0.3	Amplifier	200	- 8.0	110	2.0	50.0	30000	9500		3000	4.3	25L6
25L6-GT	Power Tube	C26	H	23.0	0.3	Ampliller	0.					istics, refer					25L6-GT
25N6-G	Direct-Coupled Power Amplifier	£99	Н	25.0	0.3	Class A Amplilier	Trio	de: Plate Ve	olts, 100;€	Grid Volts	.0:A-FS	y, 46; Load lignal Volta	(Peak), 29.	7; Plate h		3.8	25N6-G
25W4-GT	Half-Wave Rectifier	G2c	н	25.0	0.3	With Capacitive- Input Filter	Max. F	C Plate Ve Ceak Invers	e Volts, 2	000 ¢. 12	50 Max	DC Output. Peak Plate	Ми., 600	Imped. p	er Plate,	145 ohms	25W4-GT
25 Y 5	Rectifier- Doubler	D5	н	25.0	0.3	Half-Wave Rectifier	Max. A	C Voits pe OC Output	Ma per l	RMS), 23 Plate, 75	5 M:n.	Total Effec ohms.	live Plate-S	Supply Im	pedance p	oer Plate,	25¥5
25 Z 5	Rectifier- Doubler	Q5	н	25.0	0.3	Restilier- Doubler			F	or other r	ntings, n	efer to Type	2526.				25 Z 5
25 Z 6 25Z6-GT	Vacuum Rectifier- Doublers	C2a C2c	н	25.0	0.3	Voltage Doubler Hall-Wave	Max. J.	C Volta po C Output C Volta per	Ma., 75 r Plate (R	MS). 235	Min. To	. Total E ve, 30 ohms stal Effect. S	; Full-Wavi	e, 15 ohm: ed. per Pla	te: Up to	II7 volts,	25Z6 25Z6-GT
26	Amplifier	D12a	F	1.5	1.05	Rectifier Class A Amplifier	90	- 7.0	Ma. per l	Plate, 75	2.9	8; at 150 v 8900	935	8.3	o voits, I	00 ohms.	
27	Triode Detector# Amplifier	ΩS	н	2.5	1.75	Class A Amplifier	180 135 250	-14.5 - 9.0 -21.0		_	6.2 4.5 5.2	7300 9000 9250	1150 1000 975	9.0 9.0	_	_	26
20	Triode Medium-Mu	Dr	D.C.	0.0	0.00	Bins Detector	250	-30.0 a	-			o be adjust		-	e with no	signal.	
30	Triode Power Amplifier	DS	F Q.C.	2.0	0.06	Amplifier	135	- 22.5	F	or other c	haracteri 8.0	stics, refer	o Type 1H	14-G. 3.8	7000	0.185	30
31	Triode Triode	D5	F.	2.0	0.13	Class A Amplifier Screen-Grid	135 180 135	-30.0	67.5	0.4	12.3 1.7	3600 950000	1050 640	3.8	5700	0.185	31
32	RF Amplifier Tetrode	£1	D.C. F	2.0	0.06	RF Amplifier Bias Detector	180	- 3.0 - 3.0 - 6.0 approx.	67.5	0.4	1.7	1.0+§	650		2 milliam	pere	32
32ET5	Besin Power	BI	н	32.0	0.1	Class A Amplifier	110	- 7.5	110	2.8	30	21500	5500		2800	1.2	32ET5
	Tube					Amplifier Unit as	90	- 5.0	90	3.0	38.0	15000	6000		2600	0.8	
32L7-GT	Rectifier-Beam Power Amplifier	Ç3	н	32.5	0.3	Class A Amplifier Half-Wave Rectifier	90	- 7.0	90 A nsumixa A mumixa	2.0 AC Plate	Voltage.	17000		S Volts, F		1.0	32L7-GT

RCA Type	Name	Tube Di- men-		athode	• •	Use Yalues to right give operating inaditions and characteristics for	Plate Sup- ply	Grid Bias =	Screen Sup- ply	Screen Cur-	Plate Cur- rent	AC Plate Resis- tance	Trans- conduc- lance Grid-Plate	Amplifi- cation Factor	Load for Stated Power Output	Power Out- put	RCA Type
		sions	C. T.	Volts	Amp	indicated typical use	Valts	212oV	Volts	Ma	Ma.	Ohms	_mhos		Ohms	Watts	
33	Power Amplifier Pentode	D12a	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	Remote-Cutoff Pentude	El	D.C. F	2.0	0.06	Screen-Grid RF Amplifier	135 180	(- 3.0) min.	67.5	1.0	2.B 2.8	600000 1.08	600 620	-	-	-	34
35	Remote-Cutoff Tetrode	El	н	2.5	1.75	Screen-Grid ItF Amplifier	180 250	{ - 3.0 min,	90	2.5"	6.3	300000 400000	1020 1050		_	-	35
35 A 5	Beam Power Tube	t:2	н	35.0	0.15	Single-Tube Class A Amplifier	Implifier 250 min. 90 2.5" 6.5 400000 1050								35 A5		
35B5	Bearn Power Tube	B1	н	35.0	0.15	Class A Amplifier			Fo	or other cl	nameteri	sties, effect	o Type 35	C5.			35 B 5
35 C 5	Ream Power Tube	B1	н	35.0	0.15	Class A Amplifier	110	- 7.5	110	3.0	40.0	13000	5800		2500	1.5	35C5
35 L6-G T	Bram Power Tube	C2c	н	35.0	n.15	Single Tube Class A Amplifier	1111	- 7.5 △	110 125	3.0 2.0	40.0 43.N	14000 34000	5800 6100	-	2500 5000	1.5	35L6-G1
35 W 4	Half-Wave Rectifier Reuter Lap for Pilot	B1 Pilot	H	35.0 en Pins 4	0.15 and 6	With Capacitive- Input Filter	11 -7.5 110 3.0 40.0 14900 5800 2500 1.5										35 W 4
35 Y4	Half-Wave Rectifier Heater Tap for Pilot	C2 Pilot	H Between	35.0 en Pins 1	0.15 and 4	With Capacitive- Input Filter	Max AC Plate Volte (RMS), 117 Min. Total Effect. Plate-Supply Impedance, 15 ohms. Max. DC Output Ma: With Pilot and No Shutt Res., 60; With Pilot and Shutt Res., 90; Without Pilot, 100. We sake the restation of the Tune 15 Wid.										35 Y4

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

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

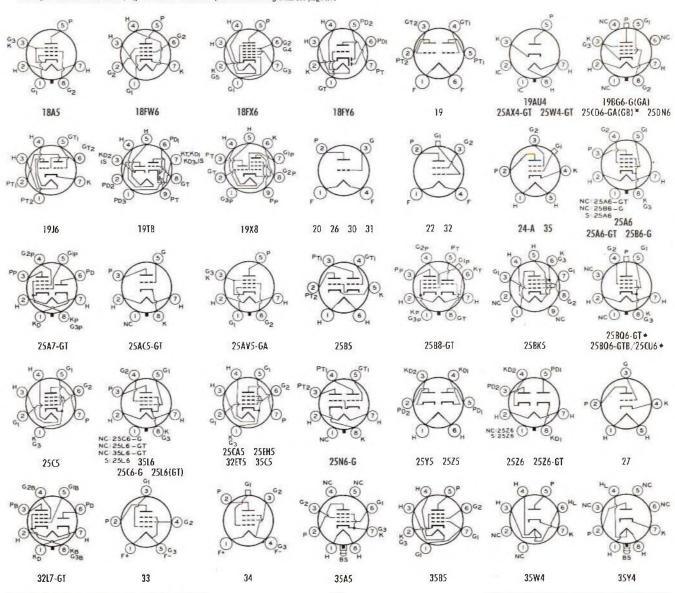
Three vertical rules before or after type No. - Miniature type having either 7 or 9 pins.

- 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 ½ (approx.) of filament voltage.
- ▲ Grids = 2 and # 4 are screen. Grid = 3 is signal input control grid.
- ♥ Applied through plate resistor of 100000 ohms.

For key to tube dimensions and, legend for base and envelope connection diagrams, see page 37,

Light Face = Discontinued type.

- § Megohna.
- * Maximum.
- = Value is for both units operating at the specified conditions.
- ★ For Grid-leak Detection—plate volts, 45; grid return to + Slament or to cathode.
- o For television dumper service.



	Name	Tube Di- men- sions		athode and Rail		Use Yalues to right give operating conditions and characteristics for indicated typical use	Plate Sup- ply Valts	Grid Bios W	Screen Sup- ply Valls	Screen Cur- rent Ma.	Plate Cur- rent Ma	AC Plate Resis- tance	Trans- conduc- tance (Grid Plate) _mhss	Amplifi- cation Factor	Lood In Stated Power Output Ohms	Power Out- put Walts	RCA Type
3 5Z 3	Hulf-Wave	CX	н	35.0	0.15	With Capacitive-			F	or other r	atings, re	efer to Type	3524-GT				35Z3
35 Z 4-GT	Half-Wave	CZe	н	35.0	0.15	With Capacitive-		C Plate V	olts (RM.	S), 235	Min	. Total Effe	ctive Plate	Supply I		: Up to 117	35Z4-GT
	Rectifier Half-Wave	-	-	-	-	Input Filter		OC Output AC Plate V				s, 15 ohms: ital Effect. I				7 volts, 15	3324-01
35 Z 5-GT	Regtifier Hester Tap for Pilot	Pulpt	Hetwe	35.0 n Pins 2	0.15 and 3	With Capacitive- Input Filter	ohms:	at 235 vo	lis, 100 c	hms. M	ax. DC	Output Ma	a.: With I	Pilot and	No Shun	Res., 60:	35 Z 5-GT
26	RF Amplifier	D9	н	6.3	0.3	Sercen-Grid RF Amplifier	100 250	- 1.5 - 3.0	55 90	1.7*	1.8	550000 550000	850 1680				36
36	Tetrode			014	0111	Bias Detector	250	0.8	90	Grid-t	nias vaiuo	s are approx	Plate Ma				2,00
36AM3	Half-Wave Rectifier	81	H	36.0	0.1	With Capacitives Input Filter		AC Plate DC Outpu			IM	in Total E	fice_Plate	-Supply In	npedance,	45 ohms	36AM3
37	Heteetor *	D5	34	6.3	0.3	Class A Ampliller	90 250	- 6.0 - 8.0	-	Sec. 100	7.5	8400	800 1100	9.2	_		37
	Trinde Power Amplifier					Bins Detector	250 100	- 28.0 ·	Grid-I	ias value:	s ace app	140000	An. to be a	adjusted to	0.2 with	no signal. 0.27	
38	Pentode	D9	H	6.3	0.3	Elass A Amplitier	250	- 25.0	250	3.8	22.0	100000	1200		19000	2.50	38
39.44	Remote-Cutoff Pentode	D9	н	6.3	0.3	Class A Amplifier	250	i min. (30	1.5	5.8	1.08	1050			_	39 44
40	Mediam-Mu Triade	D12a	O.C.	5.0	0.25	Class A Amplifier	13S™ 180≌	- 1.5 - 3.0			0.2	150000 150000	2(H) 200	30	_		40
41	Power Amplifier Pentude	D5	Н	6.3	0.4	Amplifier			F	or other c	hasocter:	stics, refer t	o Type 6F	K6 GT.			41
42	Power Amplifier Peniode	D12a	н	6.3	0.7	Amplifier			F	or ather e	haracteri	sties, refer t	o Type 6F	⁷ 6-ርት.			42
43	Power Amplifier Pentode	Diga	Н	25.0	0.3	Amplifier			F	or other c	heracteri	stics, refer t	o Type 25	A6.			43
45	Power Amplifier	D12a	F	2.5	1.5	Class A Amplifier	180	-31.5	-		31.0	1650	2125	3.5	2700	0.82	45
4523	Triode Half-Wase	B0	н	45.0	0.075	Half-Wave		-56.0 AC Plate				DC Output		Min.	4600 Total Effe	2.00 ct. Plate-	45Z3
4,523	Rectifier Half-Wave	C2:	н			Reditter	Mux.	Peak Inve	rse Volts,	350	Max.	Peak Plate	Ma., 330	Suppl	y Imped	, 15 ohms.	7.:25
45 Z 5-GT	Rectifier Benter Tap for Plint		Betwee	45.0 n Pins 2	0.15 and 3	With Capacitives Input Filter			F	or other r	atings, re	fer to Type	35 Z 5 GT.				45ZS-GT
46	Dual-Grid Power Amphilier	E3a	F	2.5	1.75	Class A Amplifier Class B Amplifier	250 300	-33.0 0	_	_	22.0 8.0 ♠	2380	2350	5.6	6400 5200	1.25	46
47	Power Amplifier	E30	F	2.5	1.75	Class A Amplifier	250	-16.5	250	6.0	31.0	60000	2500		700d	2.7	47
48	Power Amplifier	E3a	D.C.	30.0	0.4	Class A Amplifier	125	-20.0	100	9.5	56.0		3900		1500	2.5	48
	Tetrode Duni-Grid		D.C.	-		Class A Amplifier	135	-20.0	100		6.0	4175	1125	4.7	11000	0.17	
49	Power Amplifier Power Amplifier	D12a	F	2.0	0.12	Class B Amplifier	180	-54.0	4 mm mm 4		4.0 ♠ 35.0	2000	1900	3,8	12000 4560	3.5:	49
50	Trimle	Fta	F	7.5	1.25	Class A Amplifier	450	- R4.0			55.0	1800	2100	3.8	4350	4.6	50
50A5	Henra Power Tube	CZ	Н	50.0	0.15	Class A Amplifier			F	or other	character	ristics, refer	to Type 5	OL6 GT.			50A5
50B5	Beam Power Tube	B1	Н	50.0	0.15	Class A Amplifier			F	for other	character	isti cs , refer	to Type 5	0C5.			50B5
50C5	Heam Power Tube	01	Н	50.0	0.15	Class A Amplifier	120	- 8	110	4.0	49.0	10000	7500		2500	2.3	50C5
50C6-G	Beam Power	D11c	н	50.0	0.15	Single-Tube	135	- 13.5	135	3.5	58.0 61.0	9300 18300	7000 7100	-	2000 2600	3.6 6.0	50C6-G
	Tulus Half-Wave	Bı	н	50.0	0.15	Class A Amplifier With Capacitive	Por op	- 14.0 eration wit	135 h panel la	mp:	מככ	utput Ma.,	100		2000	0.0	
50DC4	Rectifier Heater Tan for Pilot	Pilot Lan						Input Cap late Supply				Lamp Shus Total Effect			pedance.	15 ohms	50DC4
50EH5	Power Pentode	ы	н	50.0	0.15	Class A Amplifier	110	52 ohms	115	11.5	42	11000	14600	_	8000	1.4	50EH5
50L6-GT	Beam Power Tube	CSt	Н	50.0	0.15	Single-Tube Class A Amplifier	100	- 7.5 A	110 125	4.0	49.0	13000	8000 8000		2000 4000	2.1	50L6-GT
						Rectilier- Doubler	Max. A	C Voits po	Plate (K		Min. T	otal Effects lave, 30 ohs	ve Plate-S		edance:	870	
50X6	Rectifier- Doubler	C2	н	50.0	0.15	Half-Wave	Max A		Plate (K		Min T	otal Effert.	Supply In	pcd. per Pl	ate: Up ir		50×6
50 Y6-GT	Beatifier-	C2¢	н	50.0	0.15	Rectifier Rectifier-	Max. D	C Output				s; at 150 vo fer to Type		ns; at 235 t	zalta, 100	istica.	50 Y6-GT
30 10-G I	Doubler	CZE	-			Doubler Voltage	Max	AC Volta p				. Total E		late-Suppl	v Impeda	ance per	30 1 6-61
50 Y7-GT	Rectifier- Doubler Bester Lap for	C2e	Н	50.0	0.15	Limbler Half-Wassa		DC Outpu		MS1 235	Pla	te. 15 ohms otal Effec F					50Y7-GT
	Pilot	Pilot Lan	ip Hetw	een Pins	6 and 7	Rectifier Voltage	Max. T.	C Volts pe	Ma per P	late, 65	rofts, l	5 nhnis: at 1 Total Effe	50 volts, 4	0 ohms: at	235 volts	, 100 ohms	
5027-G	Rectifier- Doubler	D3	н	50.0	0.15	Doubler	Max. D	C Output	M _B ., 65		1.5	ohms. Total Effec					5027-G
	Heater Tap for Pilot	Pilot Lar	p Betw	reen Pins	6 and 7	Hall-Wave Rectifier	Max D	C Volts pe C Output	Ma. per F	late, 65		o 11? volts.					
53	Twin-Trinds Amplifier	D12a	н	2.5	2.0	Amplifier			Fo	e other cl	haracteria	stics, refer to	Type 6N	17 GT.			53
55	Duplex-Diode Triode	D9	н	2.5	1.0	Triode Unit as Amplifier			Fo	or other cl	haracteris	stics, refer to	o Type 85.				55
5ถิ	Medinan-Ma Triodesh	D5	н	2.5	1.0	Amplifier Detector			Fo	r other cl	haracteris	stics, refer to	Type 76.				56
57	Sharp-Cutuff	113a	н	2.5	1.0	Amplitier			Fo	r other ch	naracteriz	stics, refer to	Type 6]	7.			57
38	Pentode Remote-Cutoff	D13a	н	2.5	1.0	Detector Amplifier			Fo	or other el	haracteris	stics, refer to	Type fill	7-G.			58
	Pentode					Mixer Triode!	250	-28.0			26.0	2300	2600	6.0	5000	1.25	
59	Triple-Crid Power Amplifier	E3a	н	2.5	2.0	Class A Amplifier Penrode®®			250					0.0		-	59
	1					Class A Amphifier Amphifier Unit as	250	-18.0	250	9.0	35.0	55000	2500		6000	3.0	
	Rectifier-Beam	CID	н	70.0	0.15	Class A Amplifier	110 Mar. 4	- 7.5	110	3.0	40.0	15000	7500		2000 Yess P#	1.8	70L7-GT
70L7-GT	Power Amplifier					Half-Wave Rectifier	Max. P	C Plate Vo	Volts, 3), 117 50	Max.	DC Output Peak Plate	Ma., 420	Supp	ly Imped.	ect. Plate- , 15 chos	
							90	-16.5			10.0	2170	1400	3.0	3000	() 105	73 3
	Power Amplifier Triode	D128	F	5.0	0.25	Chass A Amplifier	180	-40.5			20.0	1750	1700	3.0	-1800	0.125	71-A
70L7-GT	Triode Twin-Diode	D128	F H	5.0	0.25	Class A Amplifier Amplifier			Fe	r other cl		t750 stics, refer t		3.0			75
70L7-GT 71-A 75	Triode Twin-Biode Bigh-Mu Triode Detector	D9	н	6.3	0.3	Amplifier Class A Amplifier		-40.5	F	r ather cl	haracteris	stics, refer L	o Type 68	3.0 Q7. 13.8	-1800	0.790	75
70L7-GT 71-A	Triode Twin-Biode Bigh-Mu Triode					Amplifier	180	-40.5	F6	or other cl	haracteris	stics, refer t	o Type 68	3.0 Q7. 13.8 sted to 0.3	-1800	0.790	

RCA Type	Name	Tube Di- men-		ithode		Use Values to right give operating conditions and sharpeters/trestor indicated typical use	Plate Sup- ply	Grid Bias =	Screen Sup- ply	Screen Cur- rent	Plate Cur- rent	AC Plate Resis- tance	Trans- conduc- tonce (Cnd-Plata)	Amplifi- cation Factor	Load for Stated Power Output	Power Oul- put	RCA
		sions	C. T.	Volts	Amp	ministream charter ave	Volts	Valus	Volts	Ma	Ma	Dhms	_me bass		Dhms	Watts	
78	Remate-Cutoff Pentode	Dя	н	6.3	0.3	Amphher			Po	or other el	naracteri	stica, refer t	о Туре бі	ζζ.			78
79	Twin-Triode Amplifier	09	В	6.3	0.6	Class B Amplifier	18n 250	0		_		er Output is			7000 14000	5.5	79
80	Full-Wave Rectifier	012 A	₽	5.0	2.0	With Capacitives Juput Filter With Inductives Launt Filter	Max. P	C Volts pe cak Invers C Volts pe eak Invers	e Volta, 10 r Plate (F	100 2MS), 500	Max Max	DC Output Peak Plain DC Output Peak Plain	e Ма., 375 г. Ма., 125	Imped. Mm Va	per Plate	t. Supply , 50 ohms out Choke,	80
81	Half-Wave Rectifier	Fla	F	7.5	1.25	With Capacitive- Input Filter		Мах. А	C Plate V	olts (RM	S), 700		Мах. І	OC Output Peak Plate	Ma., 85		81
82	Full-Wave>	D159	F	2.5	3.0	With Capacitives Input Filter		C Volts po				DC Output Peak Plate				t. Supply	82
83	Full-Waves Rectifier	E3a	F	5.0	3.0	With Capacitives Input Fifter		C Volta pe				DC Output Peak Plate				t. Supply 50 ohms.	83
83-v	Full-Wave Rectifier	012a	н	5.0	2.0				Fo	r other ra	tings, re	fer to Type	5V4 G.				83-v
84/6 Z 4	Full-Wave Rectifier	D5	н	6.3	0.5	With Capacitive- Input Filter With Inductive- Input Filter	Max P	C Volta pe eak Invers C Volts pe eak Invers	r Plate (R	250 MS), 450	Man. Man	DC Output Peak Plate DC Output Peak Plate	Ma., 180	Imped.			84/6 Z 4

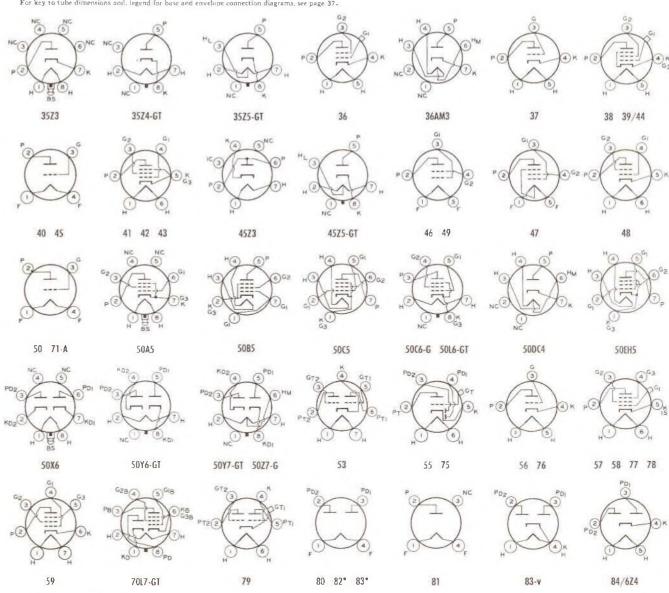
Light Face - Discontinued type.

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

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

- Grid # 2 tied to plate.
- ■■ Grid = 1 is control grid. Grid = 2 is screen. Grid = 3 tied to cathode.
- * Grid = 1 is control grid. Grids # 2 and # 3 tied to plate.
- ♦ Grids = 1 and = 2 tied together
- * Applied through plate resistor of 250000 ohms.

- § Megohma.
- · Maximum
- · For two tubes.
- Power output is for two tubes at stated plate-to-plate load.
- ★ For Grid-leak Detection plate volts, 45 | grid return to + filament or to cathode
- ** For grid of following tube:
- ▶ Mcreury-Vapor Type:



RCA Type	Name	Tube Di- men- sions		athode and Rat	ing	Use Values to right give operating conditions and characteristics for indicated typical use	Plate Sup- ply	Grid Bias =	Screen Sup- ply	Screen Cur- rent	Plate Cur- rent Ma	AC Plate Resis- tance	(Grid-Plate)	Amplifi- cation Factor	Power	Power Out- put	RCA
	10. 1 511 1		G. I.	Aug	Amp	78 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	2 Plo V	Volts	Volts	Ma.			_mhas	0.7	25000	Watts 0.075	-
85	Twin-Dinde Triode	D 9	Н	6.3	0.3	Class A Amplifier	135 250	-10.5 -20.0	-	-	3.7	11000 7500	1100	8.3	20000	0.075	85
						As Trinde 9	160 250	-20.0 -31.0			17.0 32.0	3300 2600	1425	4.7	7000 5500	0.30	
89	Triple-Grid Power Amplifier	□9	н	6.3	0.4	Class A Amplifier As Pentode	100	-10.0	100	1.6	9.5	104000	1200	4.7	10700	0.33	89
						Class A Amplifier	250	-25.0	250	5.0	32.0	70000	1800		6750	3.40	
117L7/	Rectifier-Beam					Amplifier Unit as Class A Amplifier	105	- 5.2	105	4.0	43.0	17000	5300	-	4000	0.85	117L7/
M7-GT	Power Tube	C10	H	117	0.09	Half-Waye		C Piste V				DC Output				ct. Plate-	M7-G1
				-	-	Amplifier Unit as		eak Invers	1			Peak Plate	1	Suppl	y Imped.	1	-
117N7-GT	Rectifier-Beam	C10	н	117	0.09	Class A Amplifier	100	- 6.0	100	5.0	51.0	16000	7000	-	3000	1.2	117N7-G
11111-01	Power Tube	Cit	"	117	0.09	Half Wave Heetifier		C Plate Viesk Invers				DC Outpu Pcak Plate				ect. Plate- ec, 15 ohms.	221107-0
117P7-GT	Rectifier-Beam	C10	н	117	0.09	rectine	MINT. F	esk Invers				istics, refer t				e, roomins.	117P7-G
	Power Tube Half-Wave	-	n	-	0.09	With Capacitive-	Mar A	C Plate Vo				DC Output			tal Effect.	Plate.	
117 Z 3	Rectifier	B2		117	0.04	Input Filter	Max P	enk Inverse	e Volts, 33	0	M_{BX}	Peak Plate	Ma., 540	Supply !	Imped., 20	ohms	117Z3
117Z4-GT	Half-Wave Rectifier	CO	н	117.0	0.04	With Capacitive- Input Filter		C Plate Ve eak Invers				DC Output Peak Plate		Min. To	tal Effect Imped., 3	. Plate-	117Z4-G
	West Chief					Voltage	Max. A	C Volts pe	r Plate (R		Min.	Total Effec	tive Plate	Supply In	npedance		
117 Z 6-GT	Rectifier- Doubler	C2e	н	117	0.075	Donbler Half-Wave		C Output C Volts pe		184C) 274		Wave, 30 of Total Effect				17n to 117	117Z6-G
	ridiniii i					Rectifier		C Output				15 ohms; at					
5879	Shurp-Cutoff Pentode	BOa	н	6.3	0.15	Class A Amplifier	250	- 3	100	.4	1.8	2 §	1000		_		5879
-	Lenting	-		-		Single Tube	250	-14	250	4.3	75	30000	6100		2500	6.7	
				1		Class A Amplifier	350	-18	250	2.5	53	48000	5200		4200	11.3	
5881	Beam Power	С9Ь	н	6.3	0.9	Push-Pull	250 270	-16	250 270	10	120	24500 23500	5500 5700		5000 5000	14.5† 17.5†	5881
	Tube				1	Class A Amplifier Push-Pull	360	-17.5 -22.5	270		134 4	23,100	3700	_	6600	26.51	1
						Class AB ₁ Amplifier		- 22.5	270	5 4	88♠			_	3800	18 1	
						Doork Double	250 400	- 15 - 25	250 290	7♠ 2.5♠	92 •	-			8000	12.5	
				1		Push-Pull Class AB ₁ Amplifier		Cath.	300	6	80	Cath Bias	Resistor.	230 ohms	5500	15	
6973	Beam Power Tube	Bria	н	6.3	0.45		310	Bias	310	5	77	Cath. Bias	Resistor,	270 ohms	6000	17	6973
	T GIA					Push-Pull 55	375	-33.5	9	Cath. N	fa , 62	_	-		12500	18.5	
						Class AB ₁ Amplifier	370	Cath.	10	Cath. N	Ia., 74	Cath. Bias	Resistor,	355 ohms	13000	15	
7025	High-Mu	B0a	н	6.3	0.3	Each Unit as	100	- 1	_		.5	80000	1250	100	-	_	7025
1023	Twin-Triode	Bua	n	12.6	U.15	Class A Amplifier	250	- 2	-		1.2	62500	1600	100			1023
						Push-Pull	330 450	- 24 - 30	330 350	5.6 3.4	95				4500 6000	31.5 50	
7027	Benn Power	D11a	н	6.3	0.9	Class AB, Amplifier	400	Cath.	300	7.	112	Cath. Bias			6600	32	7027
7027	Tube			1		Posh-Pull	380	Bias Cath.	380	5.6		Cath. Bias			4500	36	
						Class AB, Amplifier	410	Bias.	4J	Cath. M		Cath. Bias	Resistor.	220 onins	8000		
						Do to Tooli	540 450	- 38 - 30	400 350	3.4	95				6500 6000	76 50	
7027-A	Beam Power	Dita	н			Push-Poll Class AB, Amplifier	400	Cath.	300	7.	I12	Cath. Bias	Resistor,	200 ohms	6600	32	7027-A
1021-A	Tube	DITA	н	6.3	0.9		380	Bias	380	5.6	138	Cath. Bias	Resistor,	180 ohms	4500	36	1021-4
						Push-Pull Class AB, Amplifier	410	Cath. Dies	43	Cath. M	а., 134	Cath. Bins	Resistor,	220 ohms	8000	24	
7189	Beam Power	C0a	н	6.3	0.76	Push-Pull	400	- 15	300	1.64	15♠				8000	24†	7189
	Tube		-			Class AB, Amplifier Triode Unit as		-					2100				
7199	Medium-Mu Triode	BDa	н	6.3	0.45	Class A Amplifier	215	- 8.5			9	8100	2100	17			7199
1133	Sharp-Cutoff Pentude	DUA	-	0.3	0.43	Pentode Unit as Class A Amplifier	100	Cath. Bias	50 130	.35 3.5	1.1	1§ 400000	1500 7000	Cath. Bia			
EMO4/							Triode	Plate Sup	ply Volts,	250		100000	Fluore	scent-Targ	et Volts.	250	EM84/
EM84/	Electron-Ray Tube	RIST:	н	6.3	0.27	Visual Indicator		Plate Res	ply Volts,		on	Plate Ma.		Grid Resi Fluorescen			6FG6

One vertical sule before or after type No. - GT or other larger glass type.

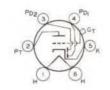
Three vertical rules before or after type No. = Miniature type having either 7 or 9 pins.

Light Face = Discontinued type.

For key to tube dimensions and, legend for base and envelope connection diagrams, see page 37.

- •• Grid # 1 is control grid. Grid # 2 is screen. Grid # 3 tied to cathode
- ¶ Grid = 1 is control grid. Grids # 2 and # 3 tied to plate.

- Note 1: Subscript 1 on class of amplifier service (as AB_1) indicates that grid current does not flow during any part of input cycle
 - § Megohnis.
 - For two tubes.
 - † Power output is for two tubes at stated plate-to-plate load.
 - Grid-No. 2 of each tube connected to tap on plate winding of output transformer. This arrangement permits approximately 40% to 50% of the plate signal voltage to be applied to Grid-No. 2 of each output tube.



672 3 4 6 3 6 1 1717 6 1 1177

KEY TO TUBE DIMENSIONS

Symbol	Maximum Overall Langth & Diameter	Symbol	Maximum Overall Length x Diameter	Symbol	Maximum Overall Length x Diameter	Symbol	Maximum Overall Length x Diameter	Symbol	Maximum Overall Langth & Diameter
A	1-3/4" x 3/8"	B5	2-25/32" x 1-3/16"	C5	3-7/16" x 1-9/32"	D5	4-3/16" x 1-9/16"	D13	4-7/8" x 1-9/16"
A1	1-3/4" x 3/4"	B5a	2-27/32" x 7/8"	C9a	3-7/16" x 1-5/16"	D6	4-1/4" x 1-9/16"	D13a	4-15/16" x 1-9/16"
Ala	1-3/4" x 7/8"	85b	2-7/8" x 7/8"	C96	3-15/32" x 1-7/16"	D7	4-5/16" x 1-5/8"	£	5" x 1-9/16"
Alb	1-3/4" x 1-5/16"	B5c	2-7/8" x 1-5/16"	C9c	3-1/2" x 1-1/16	D8	4-15/32" x 1-9/16"	Eo	5" x 1-23/32"
BO	2-1/8" × 3/4"	CO	3" x 1-9/32"	C10	3-9/16" x 1-9/32"	D9	4-17/32" x 1-9/16"	EOa	5-1/8" x 1-23/32"
BOa	2-3/16" x 7/8"	COa	3-1/16" x 7/8"	C10a	3-9/16" x 1-5/16"	D10	4-19/32" x 1-9/16"	ЕОЬ	5-1/8" x 2-1/16"
Воь	2-9/32" x 1-3/16	COP	3-1/16" x 1-9/32"	C10b	3-13/16" x 1-9/32"	D11	4-5/8 x 1-9/16"	E1	5-1/32 × 1-13/16"
BOc	2-5/16" x 1-9/32"	C1	3-1/8" x 1-5/16"	C11	3-7/8" x 1-9/32"	D11a	4-5/8" x 1-5/8"	Eta	5-7/32" x 1-23/32"
B1	2-5/8" x 3/4"	C2	3-5/32" x 1-3/16"	C11a	3-7/8" x 1-9/16"	D116	4-5/8" x 1-23/32"	Eg	5-5/16" x 1-1/16"
B1 a	2-5/8" x 7/8"	C2a	3-1/4" x 1-5/16"	D1	4" x 1-3/16"	D11c	4-5/8" x 1-13/16"	E3	5-5/16" x 2-1/16"
B2	2-5/8" × 1-1/16"	C2b	3-9/32 x 7/8	Dia	4" x 1-9/16"	D12	4-11/16" x 1-7/16"	E3a	5-3/8" × 2-1/16"
B3	2-5/8" x 1-5/16"	C2c	3-5/16" x 1-9/32"	D2	4-1/16" x 1-9/32"	D120	4-11/16" x 1-13/16"	F1	5-11/16" x 2-1/16"
84	2-11/16" x 7/8"	C3	3-5/16" x 1-5/16"	D2a	4-1/8" x 1-3/16"	D126	4-3/4" x 1-9/16"	Flo	6-1/4" × 2-7/16"
84a	2-3/4" × 7/8"	C4	3-3/8" x 1-9/32"	D3 D4	4-1/8" x 1-9/16" 4-3/16" x 1-3/16"	D12c	4-3/4" x 1-23/32"	G1	8" x 2-1/16"

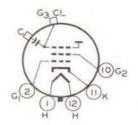
LEGEND FOR BASE AND ENVELOPE CONNECTION DIAGRAMS

Bottom Views

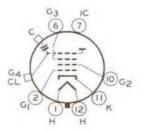
Subscripts B. D. HP, HX, P. T. and TR indicate, respectively, beam unit, diode unit, heptode unit, hexada unit, pentode unit, triade unit, and tetrade unit in multi-unit types.

H_M Heater Mid-Tap Orientation Symbol BC Base Sleeve IC Internal Connection-Do Not Use BS Base Shell other than Key С External Conductive Bulb Coating Gas-Type Tube CL - Collector
DJ - Deflecting Bectrode Small Pin C IS Internal Shield Cathode Rigid Envelope External Shield ES NC No Connection Filament Plate (Anode) Filament Mid-Tap Large Pin (Envelope RC Ray-Control Electrodia Grid S Shell Key = Heater TA Target H_L — Heater Tap for Panel Lamp U Unit

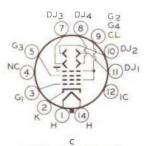
3. RCA PICTURE TUBE



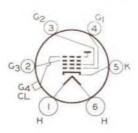
ULTOR = G3 + CL



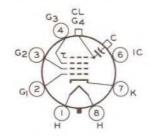
 $\begin{array}{c} \text{ULTOR} = \texttt{G}_4 + \texttt{CL} \\ \text{FOCUSING ELECTRODE} = \texttt{G}_3 \end{array}$



ULTOR = $G_2 + G_4 + CL$ FOCUSING ELECTRODE = G_3



D ULTOR = G_4 + CL FOCUSING ELECTRODE = G_3



ULTOR = G4 - CI FOCUSING ELECTRODE - G3

RCA		Aluminized		Cond	ernal active disp	Facustine	Dellection	Approx	Deflection Degrees	signA no		Maximum (logi			Neck	Mimmen
Туре	Elivelope	Screen	Faceplate :	Mar. uul	Môt.	Method	Method	Diag	Heriz.	Vert.	Diverall Largin	E a reford Dra. or Dissensi	Widh	Heleld	Longth	Seleen Size Inches
Black-and	-White	Types				-										
5194*	(G)	Yes	CL	500	100	E	M	-	50	-	1214	514	_	-	715	414 Dia
7DP4	(G)	No	CL	1500	400	E	M	-	50		143%	7346	_	_	818	6° , Dia
7JP4	(3)	No	CL	None	None	E	E0	-	-	-	1434	71%	_			6 Dia.
8DP4	G	No	FG	350	250	E	М	90	85	68	10%	81/2	71%	614	63/2	786 x 586
9AP4 u	(G)	No	CL	None	None	E	м	_	40	-	213 8	916	_		10	71 g Dia.
10824	(G)	No					Same	as 10E	9P4-A,	except	has clear	glass face	plate.			
1DBP4-A	(©)	No	FC	2500	500	M	М		50	-	18	10%	_	_	8 ¹ / _{ff}	918 Dia
10FP4-A	(G)	Yes	FG	2500	500	М	М	-	50		18	10% (e	_	_	83 %	91 x Dia
12AP4 ti	G	No	CL	None	None	E	М	-	40	-	25%	12976	-	-	93%	10 ³ , Dia
12KP4-A	(G)	Yes	FG	2500	500	M	M	-	54	-	18	1215		-	754	111 Dia
12LP4	(0)	No					Same	as 12E	.P4-A.	except	has clear	glass face	piate.			
12LP4-A	(C)	No	FG	3000	750	M	M	-	54	-	1918	12 1/2	-	_	814	11 Dia
14ATP4	G	Yes	FG	1000	500	R	M	90	85	68	1336	141%	131/16	LOCKIN	51/4	1256 × 91
14BP4					-		Sec	14EP	4 15CF	P4 [14B	P4.					
14CP4							See	14EP	4 1 ICE	94 11B	PI.					
14EP4							Sec	HEP	4/14CE	P4 14B	P4.					
14EP4/ 14CP4/ 14BP4	Ĝ.	Na	FG	2000	750	M	м	70	65	50	167 q	1344	1211	9176	7. (s	11½ x 85
14HP4	G	No	FG	2000	750	E	M	70	65	50	175%	13136	12716	977	71 6	111 2 x 85
14QP4-A	G	Ycs	FG	1000	600	E	м	70	65	50	16:7.	1313/6	1 22) 22	952	614	111g x 8
14894	G	No					Saine a	5 1-1R	PJ.A. e	acept h	as non-al	uminized	screen.			
14RP4-A	G	Yes	FG	1200	800	E	М	90	85	68	14%	143/6	138m	1011/6	634	121/6 x 93/2
14WP4								See 1-	WP4/	EZP:						
14WP4/ 14ZP4	G	Yes	FG	1200	800	E	М	90	85	68	133/2	1914	13%	10117.	5!4	1216 x 91 g
14224								Sec 1-	WP4	14ZP4.						
16.4.24	12M	No					Same	ns 16A	P1-A,	except	has clear	glass face	plate.			
16AP4-A	M	No	FG	None	None	M	м	_	53	-	225 pc	16	_	_	7%/6	1434 Dia.
16DP4-A	(G)	No	FG	None	None	M	M		60		21	16	_	_	274	141 Dia.
16GP4	(M)	Nο					Senie	BS 160	P4.B.	excent	has Filte	rglass face	plate.		-	
16GP4 A	(M)	No										glass face				
16GP4-B	M	No	FFG	None	None	M	м	_	70	-	1714	16		_	636	14% Dia
16GP4-C	(M)	No				S	ame as 1	6GP4	B. exce	ot has	frusted c	lear glass	faceplate			
16KP4	0								RP4 I				- Leap rate			
16KP4-A									PI A 1		Α.			-		-
16174-A	(G)	No	FG	2000	750	M	3M	_	52		225 á	16	_ 1	_	786	141 , Dia.
16RP4								Sec 16	RP4 1	6KP4					./0	7 3 10
16RP4/ 16KP4	G	No				San	-		-		rept has n	ເຄດນ ອໄນຄາເ	nized scre	en.		
16RP4-A							Se	e 16R	P4-A/1	6KP4	A					
GRP4-A/	(a)						T								-11	
16KP4-A	G	Yes	FG	1500	750	M	M	70	65	50	1934	161	14,1%	113 ₉	739	131 2 x 10

Light face — Discontinued type.

G — Closs rectangular.

M — Metal rectangular.

Ct. — Citer glass.

FFF. — Frosted Fairer glass.

FF — State of the control of the control

Note:
Unless otherwise noted all picture tubes shown have 6.3 woll 500 milliampere heaters

u. 2.5 wolf: 2.1 ampere heater.
v. 8.4-voll. 450 milliampere bester.
4.6.3-voll. 2.5-ampere heater (these 600-milliampere heaters paralluled internsity).

o Spherical, unless otherwise speculied.

Cylindrical foccitate.

Cylindrical foccitate.

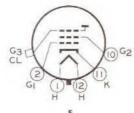
Projection type:

This type has a flat, aluminized, Filtergian, phosphorder, seven plate
Deflection factors (dc in.) for typical operating conditions shown.

01 2 21 (Apper screen) 165 to 246

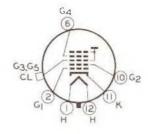
03, & 01, (nearer base) 150 to 204

ARACTERISTICS CHART

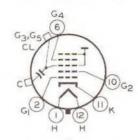


	F			
ULTOR	=	G3	+	C

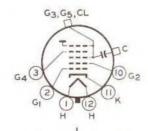
				M:	iximum Rating	\$			Typical (gerating (onditions in Grid Drive	Service		-
High Yohage Terminal	Bas-	Final High Voltage Electrode (Uncar a : Yells	Fecusing Electrode Yells	Cris- No. 2 Yelix	Gru- No I Yths)		Peek Heates-Callin Yolis After Warm No	H(-)	Final High Vidiage Electrods (Ulcor4) Valls	Grië- Na 7 Yall	Focusion Ellectrode Yorks	Grid Mr., 1 Yells For Visual Falincies of Focused Restor	P M Ion-Trag Marnet Min. Gausses	(RCA)
A						M M to lip*	Mamm nd					Plant		hia. Y
0 1 0			4444			1					1 707			hite Types
Cavity Cap	B	27000	6000	350	- 150	410	175	10	27000	300	4320 to 5400	- 37 to - 93	None	5TP4=
Cavity Cap		0.00	2400		- 125	410	150	150	6000	250	1215 to 1645	-22 to -58		7DP4
Base Pin	С	6000	3800	00	200	410	125	125	6000	/10	1620 to 2400	- 67 to - 163	None	7JP4
Cavity Cap	J	8000	- 500 - 500	300	-100	-	180	180	0008 0008	150 200	+60 to +315	-13 to -35 -17 to -46	31 36	8DP4
Medium Cap	D	7000	2000	300	-125	_		-	7000	250	1190 to 1790	-15 to -55	None	9AP1 11
					1			_	c same as for typ		4-Λ.			10BP4
Cavity Cap	A	12000	_	410	- 125	410	150	150	8000 to 12000	250		-22 to -58		10BP4-A
Cavity Cap	A	12000	_	410	-125	410	140	140	8000 to 12000	250		-22 to -58	None	10FP4-A
Medium Cap	D	7000	2000	300	-125	_	_		7000	250	1190 to 1790	-15 to -35	None	12AP4 #
Cavity Cap	A	12000		411	-125	410	140	140	9000 to 13000	250	_	-22 to -58	None	12KP4-A
					nd typica				e same as for typ		4·A.			12LP4
Cavity Cap	A	12000	_	410	- 125	410	150	150	9000 to 12000	2,50		22 to S8		12LP4-A
Cavity Cap	Н	14000	+ 1000 - 500	500	-140	-	180	180	10000 14000	300 400	0 to +400 0 to 400	-25 to -59 -31 to -90	None	14ATP4
							4EP4 1							14BP4
						Sec 1	4EP4/1	4CP4 1	4BP4.					14CP4
						See 1	4EP4 1	4CP4/1	sBP4.					14EP4
Cavity Cap	А	14000		410	— t 25	410	150	150	12000 14000	300 300	_	-28 to -72 -28 to -72	29 31	14EP4/ 14CP4 14BP4
Cavity Cap	Н	14000	500 500	500	- 125	410	180	180	12000 1-1000	300 300	-50 to -265 -55 to -310	- 28 to - 72 - 28 to - 72	29 31	14HP4
Cavity Cap	H	11000	+1000 -500	500	- 180	410	180	180	10000	300	-15 to +285	-29 to -77	29	14QP4-A
			Re	tings a	nd typical	operation	ng cond	i lone ar	c same as for typ	c 14RP	4-A.			14RP4
Cavity Cap	Ħ	14000	500 - 500	400	-110	-	180	180	10000 14000	300	-50 to +350 -70 to +270	-26 to -70 -26 to -70	36 43	14RP4-A
		,				S	ee 14WE	1421	24.					14WP4
Cavky Cap	Н	14000	+1000 -500	500	- 1+0	410	180	180	12000	300	N to -350	-28 to -72	None	14WP4/ 14ZP4
						S	ec 14 WE	24 14ZE	³ 4.					14ZP4
			Ra	tings a	nd typical	operazi	ng cond	tions ar	e same as for typ	e ISAP	I-A.			16AP4
Metal Shell Lip	F	14000	-	410	-125	410	150	150	9000 12000	300 300	=	- 28 to - 72 - 28 to - 72	23 29	16AP4-A
Cavity Cap	F	15000	-	410	-125	410	125	125	9000 to 15000	250	_	-22 to -58		16DP4-A
			Ra	tings a	nd typical	operati	ng cand:	itions at	e same as for typ	e 16GP	4-13.			16G#4
			Re	tings a	nd typics:	operation	ng condi	tions ar	c same as for typ	ាក់ផង	4·B.			16GP4-A
Metal-Shell Lip	F	14600	-	410	- 125	410	150	150	12000	300	~	-28 to -72	29	16GP4-B
		- 1	Ra	tings a	ad typical	operatio	ng condi	tions ar	e same as for type	16GP	4.B.			16CP4-C
						S	ee 16RF	1 15KF	25,					16KP4
							IGRP4.							16KP4-A
Cavity Cap	A	14000		410	- 125	410	125	125	12000 to 14000	300	_	28 to 72	_	16LP4-A
						S	ce 16RF							16RP4
			Ratings	and ty	pical oper	ating cor	aditions	are san	nc as for type 16R	P4 A,	6KP4-A.			16RP4/ 16KP4
						Sec	16RP4-	A 16KF	94 A.					16RP4-A
Cavity Cap	Λ	16000	-	410	-125	410	150	150	12000	300 000	=	- 28 to -72 -28 to -73	29 31	16RP4-A



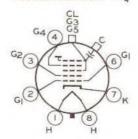
ULTOR = $G_3 + G_5 + CL$ FOCUSING ELECTRODE = G_4



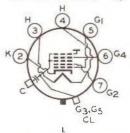
 $\begin{array}{l} \text{ULTOR} = \text{G}_3 + \text{G}_5 + \text{CL} \\ \text{FOCUSING ELECTRODE} = \text{G}_4 \end{array}$



 $\begin{array}{l} \text{ULTOR} = \textbf{G}_3 + \textbf{G}_5 + \textbf{CL} \\ \text{FOCUSING ELECTRODE} = \textbf{G}_4 \end{array}$



ULTOR = $G_3 \div G_5 \div CL$ FOCUSING ELECTRODE = G_4



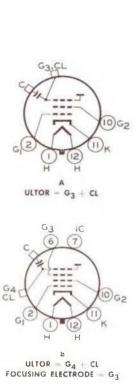
 $\begin{array}{c} \text{ULTOR} = \text{ } \text{G}_3 - \text{ } \text{G}_5 - \text{CL} \\ \text{FOCUSING ELECTRODE} = \text{ } \text{G}_4 \end{array}$

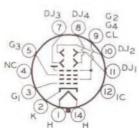
- " During equipment warm-up not exceeding 15 seconds.
- Grid No. 2 connected to final high voltage electrode within tube.
- Each gon
- This value has been specified to take care of the condi-tion where an acvoltage is provided for dynamic facusing.

ULTOR is defined as the contents, or the electrode in rombination with one or more slidthough electrodes can needed within the tube to it, to which is upshed the highest devolage for necessaring the electrons in the beam prior to its deflection.
 Prositive biase what = 0 volts, positive peak value = 2 volts.

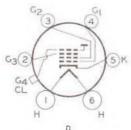
[♦] Referred to grid No. 1 Cathode-Drive Service.

RCA PICTURE TUBE CHAR

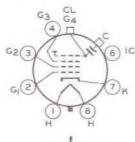




C $\begin{array}{c} \text{ULTOR} = \mathsf{G}_2 + \mathsf{G}_4 + \mathsf{CL} \\ \text{FOCUSING ELECTRODE} = \mathsf{G}_3 \end{array}$



ULTOR G_4 CL FOCUSING ELECTRODE G_3



 $\begin{array}{c} \text{ULTOR} - \mathsf{G_4} + \mathsf{Ct} \\ \text{FOCUSING ELECTRODE} = \mathsf{G_3} \end{array}$

(RCA)	Envelope	Alemizized Screen	Faceptate		ernal uctive Jing	Facusing	Deflection	Approx	වන්න (න	o Angle		Mazimum 1 Ind			Neck	Minimum
Туре	Enverage	20,650	racejnare c	Mai_ apl	Min.	Melhod	Melhad	Bay	Низи	Vol.	Comal)	Ensempe Det ar Dramonal	Widh	Height	Length forte:	Streen Size
Black-ond	-White	Types							-							
16TP4	G	No	FG	2000	750	M	M	70	6.5	50	1816	161.;	147 9	1156	6%	13 ³ ½ x 10
16WP4-A	(G)	No	FG	1500	750	M	M	-	70	-	181 (16	_	_	73/6	1436 Di
17ATP4									VP4 1							
17ATP4-A						-			PIA I							
17AVP4/	G	AT.							_							
17ATP4	G	No				Same						noti-elun	nnized so	reen.		
17AVP4-A									P4-A 1						1	
17ATP4-A	G	Yes	FG	1500	1000	E	M	90	85	68	16	1634	153%	1213/2	61/2	145% x 11
17BJP4	G	Yes	FG	1500	1000	E	M	9.0	85	68	15	16%	155361	1213/88	51/2	14% x 11
178P4-A	G	No					Same a	s 17B	P4-B, e	xcept h	ias non-al	uninized	scree11.			
17BP4-B	G	Yes	FG	1500	750	M	М	70	65	50	19%	16%	152364	1213/2	734	14% × 11
17BRP4				- 1		Se	e 17BZF	4/170	APJ 1	7CKP4	 17BRP4				-	
17BVP4	G	Yes	FG	1500	1000	E	M	110	105	87	132 (1)	1511	151	127.	61.8	14% × 11
17BZP4	_					80	e 17BZF	4 170	AP4 I	CKP4	17BRP					
17BZP4/ 17CAP4/ 17CKP4/ 17BRP4	G	Yes	FG	1500	1000	E	M	110	105	87	12 ¹³ j6	1611 16	15%	127/5	57/6	14% (x 11
17CAP4						Se	e 17BZP	4 17C	AP4 1	CKP4	17BRP					
17CDP4	G	Yes	FG	1500	1009	E	M	110	105	87	1215 %	1611	153 ;	12 5 €	5710	145; x 11
17CFP4	G	Yes	FG	1500	1200	E	M	90	85	58	153	161116	1534	1236	515	143 x 11
17CKP4							See 17)	32P4	17CAP	4/17CI	KP4 17B	RP4				
17CP4-A	M	No					Same	82 17	CP4. e	tcept h	as Filterg	lass facer	late.			
17CYP4	G	Yes	FG	1500	1000	E	M	90	85	68	142,	16 ¹¹ iii	1274	153	414	148 x 11
17DKP4	G	Yes	FG	1500	1000	E	M	110	105	87	101916	1611/6	15%	1234	3916	143 x 11
17DSP4	G	Yes	FG	1500	1000	E	M	110	105	87	113/8	1611/6	1214	15%	416	1434 x 11
17GP4	M	No	FFG	None	None	E	M	70	66	50	1956	17	1616	12%	71%	14% x 10
17HP4	_						Se	e 17F	P4 17	RP4.						
17HP4/	[6]	No	FG	1500	750	E	M	70	65	50	1986	163	1576	1246	716	14% in x 11
17RP4 17HP4-B				1200	130		Sec		4-B 12			1964	* = 2U4	12 192	122	-11411 77 77
17HP4-8/	G	Yes	FG	1500	750	E	M	70	63	50	193 _{je}	16%	15%	121%	716	145 ₁₀ × 11
17RP4-C	G	No	FG	750	500	M	M	70	65	50	1926	1634	15.61	121859	7.1-6	1456 x 11
17398	2	TAG	, 0	130	300	141			P4 175		v atld	1004	13,261	3.617.55	67.8	1771, A 11
17LP4/	[6]	No	FG.	1500	750	E	M	70	65	50	19%	16%	15834	1213%	714	14½ x 10
17 VP4	41						Sec	17LF	24-A 1	VP4-E						
17LP4-A/ 17VP4-B	[G]	Yes	FG**	1500	750	E	M	70	65	.50	19%	161	15%a	121X	71/2	14 kg x 10
17QP4	[6]	No	PG **	1500	750	М	М	70	65	50	19216	163.4	15 ²³ %	1213,12	7.4	141 j x 10
17QP4-A	G	Yes	FG**	1500	750	M	M	70	65	50	19216	1637	15 ²³ ki	12135	71/2	141 x 10
17RP4								Sce 17	HP4 T	7RP4.						
17RP4-C							St	e 17H	P4-B I	RP4-C	C					
17174	M	No	FFG	Notic	None	E	M	70	66	50	197,0	17	161 _N	1235	714	142 × 10
17VP4	-							See I	LP1 1	7VP#.						

Light face Discontinued type, [G] = Gibs; rectingular.

M = Metal rectingular.

Ct. Gibs; for the first plant.

FG = Fitter plant.

F = Fitter plant.

E = Electrostatir.

G = Gibse cound.

M = Magnetic.

- Note
 Linken otherwise noted all parties tubes shown have
 6.3 volt, 600 milliompers heaters.
 n.2.5 volt, 2.3 supers heater.
 & L. volt, 330 milliompers heater.

- 63-xolt 1.K-ampère leoter (three 600 milliam-pero lisators peralleloid superiority).
- Spherical, unless otherwise specified.
 Cylindrical faceplate.
- f At ultor lip terminal.
- 1 At Inceplate.

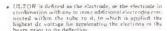
 Projection type.
- This type has a flut, almonweed, Filtergluss, phorphosidat, screen plate.
- Edition factors (de m.) for typical operating roads trong shown

DJ 4 (01 (NEXIS SEVER)) 186 (d 746

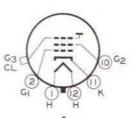
101 & 0.1 (nexes base) 150 to 200

CTERISTICS CHART (Cont'd)

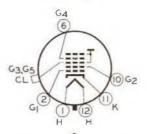
				mal	rmom Rating		Best	-	11hcz	a heramik c	anditions in Grid-Drive	I	P M	1
High Voltage	lol Bar-	Float High-Veltage Electrick	FOEDSHIP	Grist-	Gils-		Peak leater Catholi Yalis		Facul High Vollage Electrode	Geld-	Focesing	Crist No. 1 Volts For Visoral	lon-Trag Maanel	RCA
Teg ming2		Volis → I	Yells	No. 7	No 1 Yells;	Dering Wand Da*	Atter Warm-thy	N(÷)	(LGI or +) Walter	Valls	E lectrode Volts	Extending of Fecusies leaster	Man_ Cassses	Type
4												Black-and-	White Ty	pes (Cont'e
Cavity Cap	Α	14000		410	-125	410	150	150	12000	300	-	-28 to -72	29	16194
	-								14000	300	1 2 2	-28 to -72	31	
Cavity Cap	Α	16000		410	- 125	410 Se	125 r. 17AVI	125 24/17AT	12000 to 16000	250		- 22 10 - 56		16WP4
								A/17A7						17ATP4
						Se	e 17AVI	P4/17A'I	°P4.					17AVI
			Ratings a	nd typ	cal oper	iting con	ditions	ате вытпе	as for type 17	AVP4-A/	17ATP4-A.			17 AVP
								A/17AT						17AYF
		16000	+1000	500	* 10				14000	300	-55 to - 310	- 28 to - 72	31	17AVP4
Cavity Cap	H	16000	- 500 4	500	-140	410	180	081	16000	300	−65 to ±350	-28 to -72	33	17ATP4
Cavity Cap	н	00001	+1000 -500	500	- 140	410	180	180	16000	300	- 65 to +350	- 28 to - 72	None	17BJP
				tings a	nd typica	al operat	ing cond	itions ar	e same as for t	ype 17B£	4-B.		1	178P4
Cavity Cap	A	16000	_	500	- 140	410	150	150	12000	300	-	-28 to -72	39	17BP4
cavity cap		10000		500					14000	300		-28 to -72	31	
			+1000						P4/17BRP4.		1			17888
Cavity Cap	L	16000	- 500	500	140	410	180	180	14000	300	-50 to +350	-35 to -72	33	178V
					Sec	17BZP	17CAF	1/17CK	P4/17BRP4.					17BZ
Cavity Cap	K	16000	+1000 -500	500	-140	-	180	180	14000 16000	300 400	0 to +400 0 to +400	-28 to -72 -36 to -94	None	17BZP- 17CA 17CK 17BR
					See	17BZP	17CAT	1/17CK	P4/17BRP4.					17CA
Cavity Cap	к	16000	+ 1000 - 500	500	- 140		180	180	14000 16000	300 400	0 to +400 0 to +400	-28 to -72 -36 to -94	None	17CD
Cavity Cap	Н	16000	÷1000	500	- 140	410	180	180	14000	300	-50 to +350	-28 to -72	None	17CFF
cavity Cop	**	10000	- 500	300	110	1,0						20 10 12	24017	
						.1			4/17CAP4/170				_	17CKI
			+1000						re same as for		1			17CP4
Cavity Cap	H	16000	500	500	-140	410	180	180	1-1000	450	- 50 to +350	-39 to -105	None	17CYS
Cavity Cap	E	16000	650	550	-140	410	180	180	16000 16000	400 500	0 to +400 0 to -400	-34 to -63 -43 to -78	None	17DKI
Cavity Cap	К	16000	1 1000	500	- 140	_	180	180	14000	400	0 to +400	-45 to -90	None	17 DSF
Metal-She;l			- 500						12000	300	2040 to 2760	-28 to -72	29	
Lip	G	16000	5000	500	- I25	410	180	180	14000	300	2380 to 3220	-28 to -72	31	17GP
						Se	e 17HP	4/17RP	4.					17HP
Cavity Cap	н	16000	+1000 -500*	500	-140	410	180	180	14000 16000	300 300	- 55 to -300 - 65 to -350	-28 to -72 -28 to -72	31 33	17HP
						See	17HP4	B 17RP			1			17HP4
Cavity Cap	н	16000	+1000	500	~ 140	410	180	180	14000	300	-55 to +300	-28 to -72	31	17 HP4
y cap	1.		500 4	200	110			,30	14000	300	-65 to +350	- 28 to - 72	33	17RP4
Cavity Cap	A	18000	-	400	- 140	410	150	150	14000 16000	300 300	_	- 28 to - 72 - 28 to - 72	31 33	17JP
-						S	ce 17LF	4/17VP	24.					17LF
Cavity Cap	н	16000	+ 1000 - 500*	500	-140	410	180	180	14000 16000	300 300	-55 to +300 -65 to +350	-28 to -72	31	17LP
			- 5004			Sec	17LP4	A ITVF		300	-03 (0 +330	- 20 th - /2	33	17 VI
Caulta C-	9,5	16000	+1000	500	- 3.40			1	14000	300	-55 to +300	-28 to -72	31	17LP4
Cavity Cap	Н	16000	- 5004	500	- 140	410	180	180	16000	300	-65 to +350	-28 to -72	33	17VP4
Cavity Cap	A	16000	-	410	125	410	150	150	12000 14000	300 300	=	-28 to -72 -28 to -72	29 31	17QF
Cavity Cop	A	18000	_	500	-125	410	150	150	12000	300	_	- 28 to - 72 - 28 to - 72	29 31	17QP4
							See 17 H]	P4/17RF						1786
						Sec	17HP4	B 17RF	24.C.					17RP4
Metal-Shell Lip	G	16000	+1000 -500 •	560	-125	410	180	180	14000 16000	300 300		- 28 to - 72 - 28 to - 72	31 33	1719
							See 17 L l	Da 171/10						17 VP



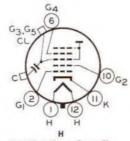
Positive his value = 0 volts, positive peak value = 2 volts.



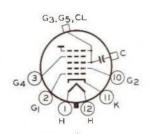
ULTOR = G3 + CL



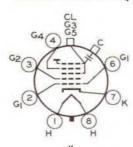
G ULTOR = $G_3 + G_5 + CL$ FOCUSING ELECTRODE = G_4



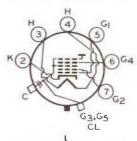
 $\begin{array}{l} \text{ULTOR} = \text{G}_3 + \text{G}_5 + \text{CL} \\ \text{FOCUSING ELECTRODE} = \text{G}_4 \end{array}$



ULTOR = $G_3 \leftarrow G_5 \div CL$ FOCUSING ELECTRODE = G_4



 $\begin{array}{c} \text{ULTOR} = \text{ } \text{G}_3 \div \text{ } \text{G}_5 \div \text{CL} \\ \text{FOCUSING ELECTRODE} = \text{ } \text{G}_4 \end{array}$



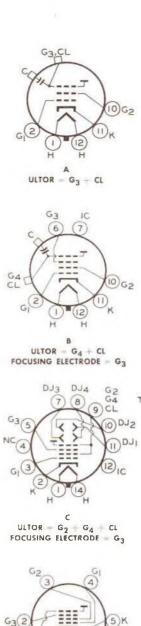
 $\begin{array}{c} \text{ULTOR} = \texttt{G}_3 + \texttt{G}_5 + \texttt{CL} \\ \text{FOCUSING ELECTRODE} = \texttt{G}_4 \end{array}$

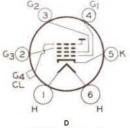
[·] Referred to grid No. 1 - Cathode-Drive Service.

Grid No. 3 connected to family bugli-voltage electrode within tube

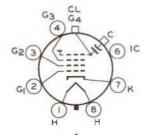
Both guit.
 This value has been apenified to take care of the condition where an accordance focusing.

RCA PICTURE TUBE CHAR





ULTOR = $G_4 + CL$ FOCUSING ELECTRODE = G_3



DITOR $G_4 + CI$ FOCUSING ELECTRODE G_3

(RCA)		Alaminized		Cond	errad uctive Uling	Focusing	Deflection	Aggron	Dedlectlo Degrees	in Angle		Maximom Inc	Dimensions has		Neck		dinimum
Тург	Envelope	Séreen	Faceplate _{nt} ,	Mat.	Min	Melhod	Method	Diago.	Hortz	Vert	Overall Langib	Envelopa Dia or Deagonal	Width	Heighl	Leagth	Se	TEER Size
Black-and-V	White Ty	pes (Cont	d)														-
17VP4-B							3	ee 17L	P4-A 1	7VP4-1	B.						
19AP4	(M)	No					Same	as 19A	P4-B.	еясері	has clear	glass fee	eplate.				
19AP4-A	M	No					Same	as 19A	P4-B.	елсері	has Filte	rglasa isc	éplate.				
19AP4-B	(M)	No	FFG	None	None	M	M	_	66		22	18%	-	-	714	17	1/4 Dia
19AP4-D	(M)	No				S	ame as 1	9AP4	B, exce	pt has	frosted e	lear glass	faceplate				
20CP4	G	No	FG	None	None	M	М	70	66	50	211315	20%	187 j	151-g	73 jr	17	x 12
20CP4-A							Se	c 20D	P4-A 2	OCP4	A.			-		_	
20CP4-D							Se	e 20D	P4-C 2	0CP4-1	D.						
20DP4-A							Se	e 20D	P4-A 2	0CP4	Α.						
20DP4-A/	G	No	FG	1500	500	M	M	70	65	50	21.74	20%	18 ¹³ 76	151/6	75 6	17	x 123
20CP4-A 20DP4-C	-					-	Se	e 20D	P4-C 2	DCP4-1							
20DP4-C/	GI	Yes	FG	1500	SOD	M	M	70	66	50	21 %	207,10	181%	1536	79/10	17	x 123
20CP4-D 20HP4-A	120								IPI A			207,2		3.0.15	- 710		,
20HP4-A/	FEL					1		-									
20MP4	G	No	FG	1500	500	1E.	М	70	66	50	22½n	201/88	1813/6	151/6	71/2	17	x 123
20HP4-D	G	Yes	FG	1500	500	E	М	70	66	50	22 %	20 €	1B13/6	151/16	73≦	17	x 123
20MP4							S	ee 20F	IP4-A	20MP4							
21ACP4-A							See 21A	CP4-A	/21BSE	21/21A	MP4-A.						
21ACP4-A/ 21BSP4/ 21AMP4-A	G	Yes	FG	2500	2000	М	M	90	85	68	203≨	213%	203/a	16)6	73.6	1931	k 15)
21ALP4	G	. No	FG	750	500	E	M	90	85	68	203 x	211/2	20%	161/2	71/2	194	s × 151
21ALP4-A									P+B/2								
21ALP4-B							See	21AL	P4-B/2	IALP4	-A						
21ALP4-B/ 21ALP4-A	G	Yes	FG	750	500	E	М	90	85	68	20%	211/2	20%	161/2	73-2	195	6 x 151
21AMP4-A							See 21 A	CP4-A	21BSF	PJ/21A	MP4-A.					,	
21AP4	M	140	FFG	None	None	M	M	70	66	50	225%	21	1927/12	151/ ₈	71/2	18)	6 x 13 ¹
21ATP4							Se	21A	P4-A	21ATP	ч.						
21ATP4-A							Se	e 21A1	CP4-A	21ATP	4.						
21ATP4-A/ 21ATP4	G	Yes	FG	1500	1200	E	M	90	85	68	20%	2114	208 g	161/2	7,1%	191	6 x 15½
21AUP4							S	cc 21 A	VP4/2	AUP4							
21 AUP4-A						See 21/	AVP4 B	21.AU	P4 B 2	1AVP4	-A 21AU	P4-A.					
21AUP4-B						Sec 21/					-A 21AU	P4-A.					
21 A VP4/	-								VP4, 2								
21AUP4	G	No	FG	2500	2000	E	М	72	67	53	23135	211/2	203/9	151/2	732	195	x 15%
21AVP4-A											A 21AU						
21AVP4-8						Sec 21/	AVP4-B	21AU	P4-B 2	IAVP4	-A 21AU	P4-A		-		-	
21AVP4-8/ 21AUP4-B/ 21AVP4-A/ 21AUP4-A	G	Yes	FG	2500	2000	E	М	72	67	53	23132	2114	20 ³ g	1634	71/2	19}1	6 x 15,1
21AWP4	G	Yes	FG	2500	2000	M	М	72	67	5.3	2315/2	2114	20%	1634	712	19!	x 15½
21BSP4							See 21A	P4-A	21BSF	4 21A	MP4-A						
218TP4	G	Yes	FG	2500	2000	E	M	90	85	68	20%	21 1/2	20%	1614	712	1916	, π 15!j
21CBP4-A	G	Yes	FG	2500	2000	E	M	90	B.5	88	18%	213/2	20 3 g	161/2	51/2	195	x 15);
	G	Yes	FG	2500	2000	E	м	110	105	87	1434	211/2	2035	161/8	57/6		x 15)

Light fact = Discontinued type.

Graph of the second of th

Note:
Unless otherwise noted all parture tubes shown have
6.3-volt, 500-milliosippre besters
7.5-volt, 71 impere hester
6.6-volt, 450-milliompere hester
6.6-volt, 450-milliompere hester
1.5-volt, 15. ampaire hester (tince 600-milliompere heater) paralleled internally).

s Spherical, unless otherwise specified.

** Cylindrical faceplate.

† At alter lip terminal

This type has a flat, aluminized, Filterglass, phrophur-dot, occurn plate.
Deficefun factors (de,lin.) for typical operating conditions shown.

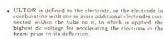
DJ, & DJ. (Marin screen) 186 to 246

DJ, & DJ. (dearer base) 150 to 204

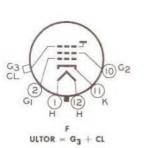
At faceplate.
 Projection type.

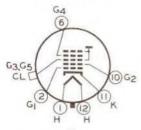
TERISTICS CHART (Cont'd)

				Ma	mamum Rating	5			Epic	al Operation I	onditions in Grid Drive	Service		
High Voltage	E33-	Janal High-Vallage Electrode	Facusing	Grid	Chie		Peak Hearlet-Carbi Volti	nde	Firms High Veltage Elexi-cela	Crist-	famosing	Cand-No 1 Volts Fat Viscal	P M Ion-Trap Magnet	(RCA)
Terminal		(Ulter*) Valts	Ange	No. 2 Valts	valis §	Owing Warm Ug ^a	Alber Warn Up	H(- -)	(Utor≖) Vols	No. 1 Yalls	E tectrode Volls	Extinection of Focused Rayter	Min. Gausses	Type
4												Black-and-	White T	ypes (Cant'd)
						Sci	c 17LP4	-A 17VP	4-B.					17VP4-E
			R	atings a	and typics	al operat	ing con	ditions ar	e same as for t	ype 19Al	P4 B			19AP4
			R	atings a	nd typica	operat	ing con-	ditions ar	e same as for t	ype 19Al	P-1-B			19AP4-A
Metal-Shell Lip	F	16000	-	410	-125	410	150	250	12000 14000	300 300	=	- 28 to - 72 - 28 to - 72	29 31	19494-8
			R	atings :	and typic	al operat	ing run	ditions at	e same as for t	type 19Al	P4_B.			19AP4-D
Cavity Cap	F	18000	_	410	- 125	410	150	150	14000 16000	300 300	=	-28 to -72 -28 to -72	31	20CP4
						Sec	20DP-	A ZOCP	4-A.				-	20CP4-A
						See	20 DP 4	-C/20CP	4 · D.					20CP4-E
						Sec	20DP4	A/20CP	4-A.					20DP4-A
Cavity Cap	A	18000	-	410	- 125	410	180	180	14000 16000	300 300	=	-28 to -72 -28 to -72	31	20DP4-A 20CP4-A
					-	See	20DP4	C 20CP	4-D.				-	20DP4-0
Cavity Cap	A	18000	-	410	-125	410	180	180	14000 16000	300 300	_	-28 to -72 -28 to -72	31	20DP4-C 20CP4-D
						Se	e 20HP	4-A 20M	P4.	-				20HP4-A
Cavity Cap	н	16000	+1000 -500*	500	-125	410	180	180	14000 16000	300 300	-55 to +300 -65 to +350	-28 to -72 -28 to -72	31 33	20HP4-A 20MP4
Cavity Cap	н	16000	+1000 -500*	500	-125	410	180	180	14000 16000	300 300	-55 to +300 -65 to +350	-28 ta -72 -28 to -72	31 33	20HP4-D
						Se	20HP	4-A 20M	P4.					20MP4
					S	ce ZIAC	P4-A 2	1BSP4 21	AMP4-A					21ACP4-
Cavity Cap	A	20000	-	500	-140	410	180	180	16000 18000	300 400		-28 to -72 -37 to -96	33	21ACP4-A 218SP4/
0 - 0		10000	4.0								214104120		-	21AMP4
Cavity Cap	Н	18000	AJI	orner n	atings ani					as for ty	oe 21ALP4-B 21	ALP4-A.		21ALP4
	_	_		_				-B 21AL						21 ALP4-A
	-		+1000			Sec. 7	HALPI	-B 21AL		300	-65 to +350	-28 to -72	119	21ALP4-
Cavity Cap	H	20000	- 5004	500	- 140	410	180 Da A 21	180	16000 18000 AMP‡-A.	100	- 75 to + 400	-28 to -72 -37 to -96	33	21A1P4-1 21ALP4-
Metal-Shell	-				2	E SINCI	14-M-21	D3F4 21	14000	300		- 28 to - 72	31	ZIAMP4
Lip	F	18000	-	500	-125	410	180	180	16000	300	-	-28 to -72	33	21AP4
						See	21ATP	I-A 21AT	IP4					21 ATP4
			Rating	t bna a	uno feninu			1-A 21AT	P4. ne as for type 2	21 AT.P4.5	3 21ALPS A	-		21ATP4-A
			6											21ATP4
								21 AUT						21AUP4
									P4-A 21AUP4					21 AUP4-7
					See 21AV		_	_	A 21AUP4	A				21AUP4-E
Cavity Cap	H	18000	+1000	500	-140	410	21AVE	180	16000	300	-65 to +350	-28 to -72	33	21AVP4/
			- 500*						18000	400	-75 to +400	-37 to -96	35	21AUP4
	_								P4-A 21AUP4				-	21AVP4
-				-	SEE SIA!	2 1 1 2	INUM.	-13 21A V	F4 A 21AUF	1-A.				21AVP4-B
Cavity Cap	Н	20000	+1000 -500•	500	-140	410	180	180	16000 18000	300 400	-65 to +350 -75 to +400		33 35	21AVP4-B 21AVP4-B 21AVP4-A 21AUP4-A
Cavity Cap	A	18000	- 1	500	-140	410	180	180	16000 18000	30 0 400	=	-28 to -72	33 35	21AWP4
			-		Se	e 21ACI	P4-A/21	BSP4 21	AMP4-A.					21BSP4
			Rating	s and ty	ypical ope	erating c	ondition	ns are san	ne as for type	21ALP4-	B/21ALP4 A			218794
		Deepa	+1000	500	-140	110	180	180	16000	300	0 to 450	28 to -72	None	
Cavity Cap	H	20000	- 500	50										

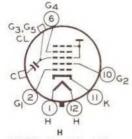


[§] Positive bios value = 6 volts; positive peak value - 2 volts.

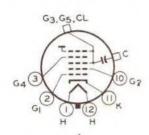




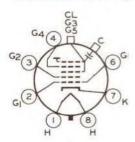
G ULTOR = $G_3 + G_5 + CL$ FOCUSING ELECTRODE = G_4



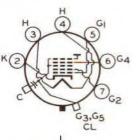
 $\begin{array}{ll} \text{ULTOR} = \text{G}_3 + \text{G}_5 + \text{CL} \\ \text{FOCUSING ELECTRODE} = \text{G}_4 \end{array}$



 $\begin{array}{ll} \text{ULTOR} = \text{G}_3 + \text{G}_5 + \text{CL} \\ \text{FOCUSING ELECTRODE} = \text{G}_4 \end{array}$



 $\begin{array}{l} \text{ULTOR} = \text{G}_3 + \text{G}_5 + \text{CL} \\ \text{FOCUSING ELECTRODE} = \text{G}_4 \end{array}$

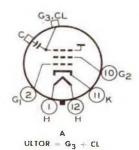


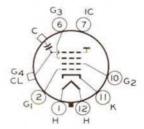
ULTOR = $G_3 + G_5 + CL$ FOCUSING ELECTRODE = G_4

Referred to grid No. 1—Cothode Drive Service.

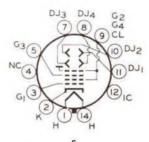
<sup>During equipment warm up not exceeding 15 econdo.
Grid No. 2 connected to final high voltage electrode within tube.
Grid No. 2 formected to final high voltage electrode within tube.
Each gun.
This value has been specified to take care of the condition where an ac wollage is provided for dynamic focusing.</sup>

RCA PICTURE TUBE

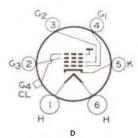




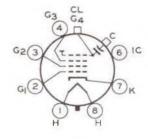
ULTOR = G4 + CL FOCUSING ELECTRODE - G3



ULTOR = $\mathbf{G_2} + \mathbf{G_4} + \mathbf{CL}$ FOCUSING ELECTRODE = $\mathbf{G_3}$



 $\begin{array}{c} \text{ULTOR} = \textbf{G_4} + \textbf{CL} \\ \text{FOCUSING ELECTRODE} = \textbf{G_3} \end{array}$



ULTOR $= G_4 + CI$ FOCUSING ELECTRODE = G3

(RCA)		Aluminized		Exte Condo Cost	sitte	Feeusina	Deflaction	Арргох	Deflectio Degrees	n Actia		Maximum E Inch			Neck	Mieimano
Туре	Envelopa	Sereen	Faceplate ::	Mat.	Mar.	Method	Method	(%)	Harig	Vact	Overall Eescill	En relage Dist to Dragornal	Width	Height	Length	Streen Size Inches
Black-and-V	Vhite Tyr	es (Cont	,q)													1
21CXP4	G	Yes	FG	2500	2000	E	M	90	85	68	183%	211/2	203%	1612	512	19! ja x 15!
21CZP4							See 21	DEP4	A 21D	EP4/21	CZP4.					
21DAP4	G	Yes	FG	2500	2000	E	M	110	105	87	15	21 1/2	203 8	1634	5716	19 ¹ 15 x 15)
21DEP4							Sec 21.	DEP4	A/21D	EP4/2	1C2P4.					
21DEP4-A							Sec 211	DEP4	A/21D	EP4/21	CZP4.					
21DEP4-A/ 21DEP4/ 21CZP4	G	Yes	FG	2500	2000	E	M	110	105	87	15	21 3/2	203/8	161/2	5 ! (n	19/ ₁₆ × 15)
21DFP4	G	Yes	FG	2500	1700	E	М	110	105	87	14%	213/2	203/9	161/9	576	19 ⁵ / ₁₀ x 15 ¹
21DLP4	G	Yes	FG	2500	2000	R	М	90	8.5	68	1736	21 1/2	20¾	1619	41/2	19½ x 15}
21 DSP4	G	Yes	FG	250N	2000	F.	M	90	85	68	183 €	211/2	20%	1652	53/2	19¦√n x 15}
21EP4	G	No				Sa						l conduct		ng.		1
21EP4-A	G	No					Same	33 21E	P4-B. a	xcept h	las non-al	luminized	screen.			1
21EP4-B	C	Yes	FG**	750	500	M	M	70	65	30	233-8	2111/2	2038	1511/6	7154	19) s x 137
21EQP4	G	Yes	FG	2500	2000	E	М1	110	105	87	12%	211/2	20%	161/2	3916	193/6 x 153
21FP4-A	[G]	No					Same	88 Z1F	P4-C, e	acept h	as non-si	luminized	screen.	-		
21FP4-C	G	Yes	FG**	750	500	E	M	70	65	20	233/8	21113	203 N	1511/16	7136	195 g x 13
21MP4	M	No	PFG	None	None	E	М	70	66	50	225%	21	1927.5	1576	73-5	18½ x 13¹
21WP4	[G]	No					Same a	s 21 W	P 4-A, €	except h	กลร กบก ล	luminized	screen.			,
21WP4-A	G	Yes	FG	750	\$00	M	M	70	66	50	221 /ja	2011/6	18 ^{[3} /n	151/16	734	173 8 x 133
21 XP4-A	G	Yes	FC	2500	2000	E	M	70	бб	50	221846	2018 fg	1813/20	15!%	71/2	173 g x 135
21YP4	G	No					Same a	s 21 Y	P4-A. c	zcept li	as non al	luminized	screen.			
21YP4-A	G	Yes	FG	750	500	P.	M	70	65	50	23196	2111-	203 8	151376	73-2	191 fg x 143
21ZP4-A	G	No					Same :	as 21Z.	P1-B. e	xcept h	es non-al	uminized	screen.			
21ZP4-B	6	Yes	FG	750	500	м	м	70	65	50	231332	2111/2	203 8	1511	71/4	19% x 14%
24ADP4						S	ce 24AD	P4/247	VP4-A	24CP4	A 24TP-	1.				
14ADP4/ 24VP4-A/ 24CP4-A/ 24TP4	G	Yes	FG	2500	2000	м	М	90	85	68	21년	241/3	221条点	18?10	716	21% × 16%
24AEP4	G	X ee	FG	2500	2000	E	M	90	85	68	191/2	241/8	22 ¹³ ja	18º in	51/2	217 % x 16?
24AHP4	G	Yes	FG	2500	2000	E	М	110	105	87	16975	2418	22:8/18	1899	53/sc	217 fg x 167
24AUP4	G	Yes	FG	2500	1700	E	М	90	85	68	1816	24 // 8	2219/16	189 (6	419	217 x 16?
24BAP4	G	Yes	FG	2500	2000	E	М	110	105	87	16%	2418	2213/6	185 8	5766	217 is x 163
24CP4-A						S					A 21TP4	I.				
24DP4-A				-			Se	e 24D	P4-A/2	4 Y P4.						
24DP4-A/ 24YP4	G	Yes	FG	2500	2000	E	M	90	85	68	211/9	2416	2219 16	18"16	71/4	215€ x 16%
24174											A 24TP4					
24VP4-A 24YP4						Sc			P4-A 2		A 24TP4					
27EP4	G	Yes	FG	None	None	м	M	90	85	69	237/16	27	2513/2	201879	77.0	241 x 189
27MP4	M	Yes	FFG	None	None	M	м	90	85	69	22 ³ iú	2718	25% ja	2014	71.2	237 x 181
27RP4	C	Yes	FG	2500	500	M	M	90	85	68	2376	27	251 13	20 ¹⁸ / ₃₂	71/4	20 1 x 18

Light face = Discontinued type:

'G = Glass rectangular.
M = Mesal cristangular.
CL = Cara glass.
FFG = Face glass.
FFG = Filterglass.
M = Magnetic.
E = Ricctroptatic.
G = Glass round.
M = Mesol round.

Note:

Unless otherwise noted all picture tubes shown have 6.3-volt 20 milliompres brates.

2.5-volt 2.1 ampres hoater.

3.4-volt 430-milliampres bester.

- G Swott L8 impere heater (three 600 millionopers feeters paralleled internally).
 Sphrival, utilies otherwise specified.
 Cylindrical faceplate.
 2 At facepla
- 1 At elter lip-terminal.
- 2 At faceplate.

 Projection type
- •• This type has a flat, aluminized, Filterglass, Mrsphordot, screen plate
- Deflection (across (tle m.) for typical operating condi-tions shown:



DJ, & DJ, (neares hase) 150 to 794

TERISTICS CHART (Cont'd)

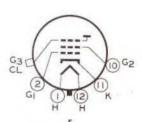
				Maxin	um Ratings				Турска	Uperaling Col	iditions in Grid-Drive	Service		
High Voltage Terminal	Bas- ing	Final High-Yaltage Electrode (Ultim+) Yalta	Faculty Electronic Volis	Card No. 7 Votis	Gild Ms 1 Yelis :	H			Final Migb Vallage Electrode ([Alter+) Volts	Grid- No 3 Vells	Facusing Elaptrode Value	Grid Mn. 3 Volts For Visical Extinction of Focused Rasion	P M lon-Trag Marnet Min. Gaesses	RCA) Type
						Marain Dita Untalus	Warm Us	H(+)				Transition in	CHET 1261	Турс
4												Bleck-and-W	hile Typ	pes (Cont'd
Cavity Cap	H	20000♠	+1000• -500•	64	+140 ♦	410	180	180	18000 ♦	50♠	0 to350•	+32 to +47•	None	21CXP
						See 21E	EP4A	21DEP4	21CZP4.					21CZP4
Cavity Cap	К	16000	+1000	500	-140	410	180	180	16000	400	0 to +400	-36 to -94	None	21DAP
		_	- 500			Sec 21L	EP4-A	21 DEP4	21CZP4.					21DEP4
								_	21CZP4.					21DEP4-
Cavity Cap	К	20000	+1000	500	- 140	410	180	180	16000	400	0 to +500	-36 to -94	None	21DEP4- 21DEP4
Cavity Cap	**	20000	- 500	300	140	110	100	10	10000	400	0 10 1500	3010 74	140116	21CZP4
Cavity Cap	K	18000	+1000 -500	500	140	-	180	180	14000 16000	300 400	0 to +400 0 to +400	- 28 to - 72 - 36 to - 94	None	21DFP4
Cavity Cap	н	20000	+1000 -500	รถฮ	-140	410	180	180	15000	300	0 to +400	-28 to -72	None	21DLP4
Cavity Cop	Н	20000♦	÷1000♦ - 500♦	64•	+140•	410	180	180	16000◆	50•	0 to +400◆	30 to +45◆	None	21DSP4
Cavity Cap	F		R	etings a	nd typic	а орега	ting con	ditions as	re same as for t	ype 21EP	4-B.			215P4
			R	etings o	nd typica	al opera	ting con	ditions a	e same as for t	ype 21EP	4-B.			21EP4-
Cavity Cap	Λ	18000	-	500	-125	410	180	180	14000	300 300		- 28 to - 72 - 28 to - 72	31	21EP4-
Cavity Cap	E	18000	650	550	140	410	180	180	16000	400	0 ta +400	-34 to -63	None	21EQP
Cav.ty Cap	E	18000							18000	500	0 to ++00	-43 to -78	140116	
			+1000	stings as	nd typica	al opera		la ancifib	14000	300	4-C. -55 to +300	-28 to -72	31	21FP4
Cavity Cap	Н	18000	- 500	500	125	410	180	180	16000	300	-65 ta +350	- 28 to -72	33	21F94-
Metal Shell Lip	G	16000	+ 1000 500 •	500	- 125	410	180	180	14000 16000	300 300	-55 to +300 -65 to +350	-28 to -72 -28 to -72	31 33	21MP
			Ra	lings an	d typica	operat	ing cond	itions an	e same as for t	-	4-A.			21WP4
Cavity Cup	A	18000	-	รบข	- 125	410	180	180	16000 18000	300 300	_	- 28 to - 72 - 28 to - 72	3.3 3.5	21WP4
Cavity Cap	Н	18000	÷ 1000	500	-125	410	180	180	16000	300 300	-65 to +350 -70 to +395	-28 to -72 -28 to -72	33 35	21XP4
				lings an	d typica	o;xerat	ing coud	litions an	e same as for t					2112
Cavity Cap	H	18000	+1000	500	- 140	410	180	180	16000	300	-65 to +350	-28 to -72	33	21YP4
			- 500 °	tings as		1 opermi	ing cond	likione ur	t8000 e same as for t	400 una 21.7Pa	- 75 to + 400	-37 to -96	35	21ZP4-
		10000	1						16000	300	-	-28 to -72	33	
Cavity Cap	A	18000		500	-140	410	180	180	18000	300	-	-28 to -72	35	21ZP4-
			-	-	Sec	24ADF	3 24VP	4-A 24C	P4 A 24TP4.				_	24ADP
Cavity Cap	٨	22000	-	500	-140	410	180	180	16000 18000	300 400	Ξ	-28 to -72 -37 to -96	33 35	24ADP4 24VP4 24CP4- 24TP4
Cavity Cap	н	20000	+ 1000 - 500	500	- 140	410	180	180	16000	300 400	- 50 to + 350 - 50 to + 350	-28 to -72 -36 to -94	None	24AEP
Cavity Cap	K	20000	4-1000	500	-140	410	180	180	14000	300	-50 to +350	- 28 to - 72	None	24AHP
Cavity Cap	н	20000	50D + 1000	500	- 140	410	180	180	16000	300	- 50 to + 350 - 75 to + 400	-36 to -94 -35 to -72	None	24AUP
	K	20000	- 500 + 1000	64.	+140•		180	180	16000◆	50•	0 to - 400	+32 to +47◆	None	24BAP
Cavity Cap	K	20000	- 500•	640					20000 •	64.	0 to 4 400 •	+42 to +58•	11017	-
					300			-A/24V	P4-A/24TP4.				-	24CP4-
Cavity Cap	н	20000	+1000	500	-140	410	180	180	16000 18000	300 400	-65 to +330 -75 to +400	-28 to -72 -37 to -96	33	24DP4-A 24YP4
					See	24ADF	4/24VP	1-A/24CI	P4-A 24TP4.					24174
					See	24ADP	4/24VP	4-A/24CI	P4-A/24TP4.					24VP4
						Se	24DP	LA 24Y	P4.					24YP4
Cavity Cap	F	20000	-	500	-140	410	180	180	16000	300		- 28 to - 72	38	27EP4
Metal-Shell Lip	F	18000	-	500	-125	410	180	180	16000 16000	30d 400		- 28 to - 72 - 37 to - 96	33	27MP4
Cavity Cap	A	20000	-	500	- 140	410	180	180	16000	300	_	- 28 to - 72	_	27RP4



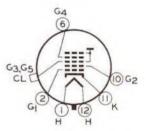
[§] Positive bias value = 0 volts; positive peak value = 2 volts.

- During equipment warm up not exceeding 15 seconds:

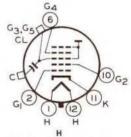
 Gred No. 2 connected to final high voltage electrode within tube.
- Ench gun



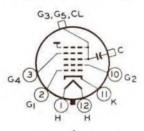
ULTOR - G3 + CL



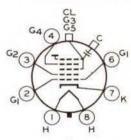
ULTOR = $G_3 + G_5 + CL$ FOCUSING ELECTRODE = G_4



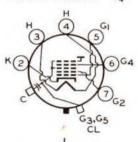
ULTOR = $G_3 + G_5 + CL$ FOCUSING ELECTRODE = G_4



ULTOR = $G_3 + G_5 + CL$ FOCUSING ELECTRODE = G_4



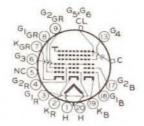
ULTOR = $G_3 + G_5 + CL$ FOCUSING ELECTRODE = G_4



ULTOR = $G_3 + G_5 + CL$ FOCUSING ELECTRODE = G_4

Referred to grid No. 1 Cathode Drive Service.

R C A P I C T U R E TUBE CHA



ULTOR G₅ G₆ CL FOCUSING ELECTRODE G₃



ULTOR = $G_4 + G_5 + CL$ FOCUSING ELECTRODE = G_3

RCA		Alpminized		Ente Condu Coal	Klive	Focusing		Apprex	Degrees Degrees	n Angle		Mazimum Di Inche			Neck	Minimum
Type	Forelope	Screen	Faceplate	Mir.	Mis.	Methad	Method	Diag	Hartz	Vert.	Directalli Langth	Envelope Dia or Diaconal	Wien	Height	L ength bedies	Screen Size
Calar Typ	P5		-			1										-
15GP22•••	G	Yes	CL	3000	1500	E	M	-	45	3.5	26 %	1426-21	_	-	10%	111 ₂ x 85
21 A X P224	M	Yes	FC	None	None	Ε	М	-	70	55	25 fr pg	2011 है (921€	191% x 151%
21A XP22-A+	M	Yes	FG	None	None	Ε	M	-	70	55	25 ³ /n	20 ¹¹ 11 f	_		9216	19½ x 15½
21AXP22-A/ 21AXP224	М	Yes	FG	None	None	Ε	M	-	70	-55	25%	2011/16	_	-	921 <u>fg</u>	19 ¹ 5 x 15,4
21CYP22	G	Yes	FC	2500	2000	Е	M	_	70	55	25134	2015	_	-	914	19 kg x 15 kg

Light face — Discontinued type.

G = Glaw rectangular.

M = Metal rectangular.

FFG = Green glam.

FFG = Fracted Pitraglas.

FFG = Green glam.

G = Magnetic.

E = Electrostalt.

G = Clus round.

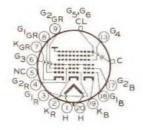
M = Metal round.

M This type has a flat, stummined, Filterglass, phosphile-dot, screen plate.

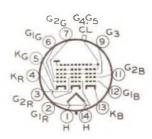
Deflection (sectors (dc in) for typical operating conditions shown:

Dill, & Dill, (mourer base) 150 to 284

RCA PICTURE TUBE CHAI



ULTOR = G₅ + G₆ + CL FOCUSING ELECTRODE = G₃



ULTOR = $G_4 + G_5 + CL$ FOCUSING ELECTRODE = G_3

RCA		Alaminized		Ente Condu Coal	Thet	Focusing	Deflection	Approx	Degrees	n Angle		Material Di lette			Neck	Minimam
Туре	Eovelope	Screen	Faceplate	Mar au1	Min ,1	Methos	Method	Diag	Hero	Yert.	Orecal Length	Envelope Dia at Diagonial	Wigið	Height	Length inches	Sereen Siya Inches
Color Typ	05										1	A				
15GP22**	G	Yes	CL	3000	1500	E	M	-	45	35	26)-5	142055	-	-	1084	1110 x 85
21AXP224	M	Yes	FG	None	None	E	M	-	70	55	25110	2011 161	_	-	9215	191 is x 151
21A XP22-A+	M	Yes	FG	None	None	E	М	-	70	55	25816	2011/10	_	1-	921€	19! ú x 15!
21AXP22-A/ 21AXP224	М	Yes	FG	None	None	E	M	-	70	-55	25 ⁶ 10	2011 16+		-	921 2	19 ¹ 4 × 15 ¹
21CYP224	G	Yes	FG	2500	2000	Е	M	-	70	55	25122	20 ¹⁵ is	_	_	956	19 ¹ ⊈ x 153⁄

Light face — Discontinued type

G — Gloss cretangular.

M = Metal sectongular.

C — Constitution

FFG — Filtergloss.

M — Magnetic

E — Electrostatic.

G — Close round.

M = Magnetic

M = Magnetic

M = Magnetic

M = Magnetic

Note

Unless otherwise noted all picture tubes shown have d 3-volt (500 iniliumpers heaters in 2.5 volt). 2.1 ampies heater.

8.4 volt (450 iniliumpers beater.)

6.3 volt (1.8 ampiers heater.)

Cylindrical faceplate.

At acceptate.

Protection type.

** This type has a flat, aluminused, Filterglass, phosphordot, screen plate.

Deficetion fectors (do in.) for typical operating condi-tions shown

03 & 03 (nearer serent) 186 (n. 266



TECHNICAL PUBLICATIONS

ELECTRON TUBES -

- RCA TUBE HANDBOOK—HB-3 (73/8" x 51/4"). Five deluxe 2-inch-capacity black binders imprinted in gold. The bible of the industry—contains over 4200 pages of loose-leaf data and curves on RCA receiving tubes; picture tubes; oscillograph tubes; special-purpose kinescopes; photosensitive devices including phototubes, photoconductive cells, photojunction cells, and camera tubes; storage tubes; gas tubes; and other miscellaneous types for special applications. Available on subscription basis. Price \$17.50 including service for first year. Also available with HB-10 Semiconductor Products Handbook at special combination price of \$20.00.* Write to Commercial Engineering for descriptive folder and order form.
- RCA RECEIVING TUBE MANUAL—RC-19 (8½" x 5¾")—384 pages. Revised and expanded. Contains technical data on more than 625 receiving types. Features tube theory written for the layman, application information and a circuit section. Features lie-flat binding. Price 75 cents.*
- RADIOTRON DESIGNER'S HANDBOOK—4th Edition (8¾" x 5½")—1500 pages. Comprehensive reference thoroughly covering the design of radio and audio circuits and equipment. Written for the design engineer, student, and experimenter. Contains 1000 illustrations, 2500 references, and cross-referenced index of 7000 entries. Edited by F. Langford-Smith of Amalgamated Wireless Valve Company Pty. Ltd. in Australia. Price \$7.00.**
- RCA TRANSMITTING TUBES—TT-4 (83/8" x 53/8")—256 pages. Contains basic information on generic tube types, on tube parts and materials, and on tube insulation and application. Includes technical data and curves for power tubes having plate-input ratings up to 4 kilowatts, and data for associated rectifier tubes. Contains sections on transmitter-design considerations, rectifier circuits and filters, and circuit diagrams for transmitting and industrial applications. Features lie-flat binding. Price \$1.00.*
- RCA POWER AND GAS TUBES—PG-101D (10% x 83/8")
 —32 pages. Technical information on over 175 RCA vacuum power tubes, rectifier tubes, thyratrons, and ignitrons. Includes terminal connections. Price 30 cents.*
- RCA RECEIVING-TYPE TUBES FOR INDUSTRY AND COMMUNICATIONS—RIT-104B (101/8" x 83/8")—32 pages. Technical data on 190 RCA "special red" tubes, premium tubes, computer tubes, pencil tubes, glow-discharge tubes, small thyratrons, low-microphonic amplifier tubes, travelingwave tubes, and other special types. Price 30 cents.*
- RCA RECEIVING TUBES AND PICTURE TUBES—1275J (10% x 8%")—48 pages. New, enlarged, and up-to-date booklet contains classification chart, characteristics chart, and base and envelope connection diagrams on more than 900 entertainment receiving tubes and picture tubes. Price 35 cents.*
- RCA PREFERRED TYPES LIST—PTL-501G (10% x 83%) —8 pages. Lists RCA Preferred Tube Types both receiving and non-receiving by function. An aid in the selection of tube types for new equipment design. Single copy free on request.
- RCA INTERCHANGEABILITY DIRECTORY OF INDUSTRIAL-TYPE ELECTRON TUBES—ID-1020B (10%" x 8%")—24 pages. Lists more than 2700 type designations of 33 different manufacturers; shows the RCA Direct Replacement Type or the RCA Similar Type, when available. Price 25 cents.*
- RCA PHOTOSENSITIVE DEVICES AND CATHODE-RAY TUBES—CRPD-105A (10%" x 83%")—32 pages. Technical information on 134 RCA tubes including single-unit, twin-unit, and multiplier phototubes; camera and image-converter tubes; flying-spot tubes; monitor, projection, transcriber, and view-finder kinescopes; oscillograph and storage tubes. Price 30 cents.*
- RCA MAGNETRONS AND TRAVELING-WAVE TUBES—MT-301A (10%" x 83%")—48 pages. Operating theory for magnetrons and traveling-wave tubes, application considerations, and techniques for measurement of electrical parameters. Price 50 cents.*



- RCA TRIPLE PINDEX—PINDEX-109 (8½" x 5½")—240 pages. Gives base diagrams for more than 2000 JEDEC-registered receiving types including picture tubes. Base diagrams of over 1500 receiving types are presented in triplicate to provide the user with any three base diagrams at any one time. More than 200 small industrial-receiving types and more than 200 foreign receiving types are cross-referenced to the receiving-tube section for base diagrams. Price \$1.75.*
- RCA INTERCHANGEABILITY DIRECTORY OF FOREIGN vs U.S.A. RECEIVING-TYPE ELECTRON TUBES—ICE-197 (83/8" x 101/8")—4 pages. Covers approximately 450 foreign tube types used principally in AM and FM radios, TV receivers, and audio amplifiers. Indicates U.S.A. direct replacement type or similar type if available. Single copy free on request.
- RCA HIGH-FIDELITY AMPLIFIER CIRCUITS 800KLET—HF-110 (8\%" x 10\%")—28 pages. Includes circuit diagrams with parts lists, design considerations and performance requirements, and characteristics chart of RCA high-fidelity tube types. For hobbyists, technicians, and others interested in construction of their own high-fidelity amplifier systems. Price 35 cents.*
- RCA COLOR TELEVISION PICT-O-GUIDE—(9%" x 5%")—200 pages. Developed and written by John R. Meagher RCA's nationally recognized authority on practical TV servicing. Prepared to aid TV technicians in trouble-shooting and adjusting color TV receivers. Color photographs are included to assist in recognizing and understanding visible symptoms of troubles and misadjustments. Price S4.50.*
- TV SERVICING—TVS-1030 (10%" x 83%")—48 pages. Contains articles on TV trouble shooting, TV tuner alignment, and TV circuit analysis by RCA's expert in the field of TV servicing and test equipment—John R. Meagher. Price 35 cents.*
- TV SERVICING, SUPPLEMENT 1.—TVS-1031 (10% x 8%")—12-page booklet by John R. Meagher on solving trouble-shooting problems in those hard-to-service TV receivers known to service technicians as "tough" sets or "dogs". Price 15 cents.*
- PRACTICAL COLOR TELEVISION—Revised Edition (11" x $8\frac{1}{2}$ ")—84 pages. Black-and-white and color illustrations. Comprehensive information on color principles, color signal, color camera, and color picture tubes. Covers commercial receiver circuit using the RCA-15GP22 color picture tube, as well as installation and service of color receivers. Provides detailed description of color-test equipment. Price \$2.00.*
- PRACTICAL COLOR TELEVISION, SUPPLEMENT 1.—(11" x 8½")—36 pages. Describes theory, operation and servicing of large-screen color TV receiver using RCA-21AXP22. Has 55 black-and-white and color illustrations, wave-forms, and explanations of color circuits and adjustments. Price 75 cents.**

TRANSISTORS AND SILICON RECTIFIERS—

- RCA SEMICONDUCTOR PRODUCTS HANDBOOK—HB-10 (73/8" x 55/8"). Deluxe 21/8-inch capacity red binder imprinted in gold. Contains over 400 pages of loose-leaf data and curves on semiconductor devices such as germanium transistors, silicon transistors, and silicon rectifiers. Available on subscription basis. Price \$5.00* including service for one year. Also available with HB-3 Tube-Handbook at special combination price of \$20.00.* Write to Commercial Engineering for descriptive folder and order form.
- RCA SEMICONDUCTOR PRODUCTS—SCD-108B (10% x 83/8")—40 pages. Contains technical data on RCA transistors and silicon rectifiers. Includes an interchangeability directory which lists over 1100 types of 29 different manufacturers, and a section on circuits containing 37 schematics illustrating some of the more important applications of these devices. Price 30 cents.**

*Prices shown apply in U.S.A. and are subject to change without a notice.

Copies of the publications listed above may be obtained as follows: ELECTRON TUBES TRANSISTORS, SILICON RECTIFIERS

From your REA Tube Disributor

or
From RCA, Commercial Engineering,
Electron Tube Division,
Marrison, New Jersey

Fram your RCA Transistor Distributor or

From RCA, Commercial Engineering, Semiconductor and Materials Division, Somerville, New Jersey