

# RCA REFERENCE BOOK 1956

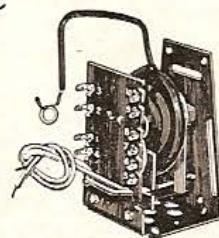
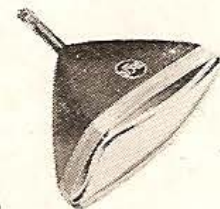
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Marca Registrada

*A compendium of  
valuable information on  
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Cathode-Ray and Power  
Tubes, Batteries, Service  
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# RCA RECEIVING TUBE CHART

## Miniature, Metal, GT, and other Receiving Types

Type	Name	Tube Dimensions and Socket Connections		Cathode Type and Rating			Use <small>Values to right give operating conditions and characteristics for indicated typical use</small>	Plate Supply Volts	Grid Bias Volts	Screen Supply Volts	Screen Current Ma.	Plate Current Ma.	AC Plate Resistance Ohms	Trans-conductance (Grid-plate) umhos	Amplification Factor	Load for Stated Power Output Ohms	Power Output Watts
		Dimen.	S. C.	C. T.	Volts	Amp.											
00-A	Detector Triode	D12	4D	D.C. F	5.0	0.25	Grid-Leak Detector	45	Grid Return to (-) Filament			1.5	30000	666	20	—	—
01-A	Detector* Amplifier	D12	4D	D.C. F	5.0	0.25	Class A Amplifier	90 135	- 4.5 - 9.0	—	—	2.5 3.0	11000 10000	725 800	8.0 8.0	—	—
0Y4	Half-Wave Gas Rectifier	B2	4BU	Cold	—	—	Rectifier	Max. Peak Inverse Plate Volts, 300 Max. DC Starting Volts, 95				Max. Peak Plate Current, 500 ma. Max. DC Output Current, 75 ma.					
0Z4	Full-Wave Gas Rectifier	B2	4R	Cold	—	—	Rectifier	Starting-Supply Voltage per Plate, 300 min. peak volts. Peak Plate Current, 200 max. ma. DC Output Current, 75 max., 30 min. ma. DC Output Voltage, 300 max. volts.									
0Z4-G	Full-Wave Gas Rectifier	B1a	G-4R	Cold	—	—	Rectifier										
1A3	HF Diode	B0	5AP <sub>2</sub>	H	1.4	0.15	Detector Rectifier	Max. Peak Inverse Volts, 330 Max. Peak Plate Ma., 5				Max. DC Output Ma., 0.5 Max. Peak Heater-Cathode Volts, 140					
1A4-P	Remote-Cutoff Pentode	D9	4M	D.C. F	2.0	0.06	Amplifier	For other characteristics, refer to Type 1D5-GP.									
1A5-GT	Power Amplifier Pentode	C2b	G-6X	D.C. F	1.4	0.05	Class A Amplifier	85 90	- 4.5 - 4.5	85 90	0.7 0.8	3.5 4.0	300000 300000	800 850	—	25000 25000	0.100 0.115
1A6	Pentagrid Converter $\alpha$	D9	6L	D.C. F	2.0	0.06	Converter	135 180	{ - 3.0 min. }	67.5 67.5	2.5 2.4	1.2 1.3	400000 500000	Anode-Grid (#2): 180 $\lambda$ max. volts, 2.3 ma. Oscillator-Grid (#1) Resistor $\alpha$ . Conversion Transcond., 300 micromhos.			
1A7-GT	Pentagrid Converter $\alpha$	C3	GT-72K	D.C. F	1.4	0.05	Converter	90	0	45 $\clubsuit$	0.7	0.6	600000	Anode-Grid (#2): 90 max. volts, 1.2 ma. Oscillator-Grid (#1) Resistor, 0.2 meg. Conversion Transcond., 250 micromhos.			
1AC5	Power Pentode	A	8CP	F	1.25	0.04	Class A Amplifier	30 45 67.5	- 2 - 3 - 4.5	30 45 67.5	0.1 0.2 0.4	0.5 1.0 2.0	200000 170000 150000	450 600 750	—	50000 40000 25000	0.005 0.015 0.050
1AD5	Sharp-Cutoff Pentode	A	8CP <sub>1</sub>	F	1.25	0.04	Class A Amplifier	30 45 67.5	0 0 0	30 45 67.5	0.16 0.35 0.75	0.45 0.9 1.85	700000 700000 700000	430 580 735	—	—	—
1B3-GT	Half-Wave Rectifier	D2	3C	F	1.25	0.2	Half-Wave Rectifier	Max. Peak Inverse Plate Volts, 30000 Max. Peak Plate Ma., 17				Max. Average Plate Ma., 2 Max. Frequency of Supply Voltage, 300 Kc					

1B4-P	RF Amplifier Pentode	D9	4M	D.C. F	2.0	0.06	Amplifier	For other characteristics, refer to Type 1E5-GP.									
1B5/25S	Duplex-Diode Triode	D5	6M	D.C. F	2.0	0.06	Triode Unit as Amplifier	For other characteristics, refer to Type 1H6-G.									
1B7-GT	Pentagrid Converter $\alpha$	C3	GT-72K	D.C. F	1.4	0.10	Converter	90	0	45 $\clubsuit$	1.3	1.5	350000	Anode-Grid (#2): 90 max. volts, 1.6 ma. Oscillator-Grid (#1) Resistor, 0.2 meg. Conversion Transcond., 350 micromhos.			
1C5-GT	Power Amplifier Pentode	C2b	G-6X	D.C. F	1.4	0.10	Class A Amplifier	83 90	- 7.0 - 7.5	83 90	1.6 1.6	7.0 7.5	110000 115000	1500 1550	—	9000 8000	0.20 0.24
1C6	Pentagrid Converter $\alpha$	D9	6L	D.C. F	2.0	0.12	Converter	For other characteristics, refer to Type 1C7-G.									
1C7-G	Pentagrid Converter $\alpha$	D9	G-7Z	D.C. F	2.0	0.12	Converter	135 180	- 3.0 - 3.0	67.5 67.5	2.5 2.0	1.3 1.5	600000 700000	Anode-Grid (#2): 180 $\lambda$ max. volts, 4.0 ma. Oscillator-Grid (#1) Resistor $\alpha$ . Conversion Transcond., 325 micromhos.			
1D5-GP	Remote-Cutoff Pentode	D9	G-5Y	D.C. F	2.0	0.06	Class A Amplifier	90 180	{ - 3.0 min. }	67.5 67.5	0.9 0.8	2.2 2.3	600000 1.0 $\S$	720 750	—	—	—
1D5-GT	Remote-Cutoff Tetrode	D9	G-5R	D.C. F	2.0	0.06	Class A Amplifier	180	- 3.0	67.5	0.7	2.2	600000	650	—	—	—
1D7-G	Pentagrid Converter $\alpha$	D9	G-7Z	D.C. F	2.0	0.06	Converter	For other characteristics, refer to Type 1A6.									
1D8-GT	Diode-Triode-Power Amplifier Pentode	C2b	G-8AJ	D.C. F	1.4	0.10	Pentode Unit as Class A Amplifier	45	- 4.5	45	0.3	1.6	300000	650	—	20000	0.035
								90	- 9.0	90	1.0	5.0	200000	925	—	12000	0.200
								45	0	—	—	0.3	77000	325	25	—	—
1E5-GP	RF Amplifier Pentode	D9	G-5Y	D.C. F	2.0	0.06	Class A Amplifier	90 180	- 3.0 - 3.0	67.5 67.5	0.7 0.6	1.6 1.7	1.0 $\S$ 1.3	600 650	—	—	—
1E7-GT	Twin-Pentode Power Amplifier	C2b	G-8C	D.C. F	2.0	0.24	Class A Amplifier	135	- 7.5	135	—	—	—	Power Output is for one tube at stated plate-to-plate load.		24000	0.575
1E8	Pentagrid Converter $\Delta$	A	8CN	F	1.25	0.04	Converter	30 45 67.5	0 0 0	30 45 67.5	0.8 1.1 1.5	0.3 0.6 1.0	300000 400000 400000	Oscillator Grid (#1) Resistor, 0.1 meg. Conversion Transcond., 150 micromhos			
1F4	Power Amplifier Pentode	D12	5K	D.C. F	2.0	0.12	Amplifier	For other characteristics, refer to Type 1F5-G.									
1F5-G	Power Amplifier Pentode	D10	G-5X	D.C. F	2.0	0.12	Class A Amplifier	90 135	- 3.0 - 4.5	90 135	1.1 2.4	4.0 8.0	240000 200000	1400 1700	—	20000 16000	0.11 0.31
1F6	Duplex-Diode Pentode	D9	6W	D.C. F	2.0	0.06	Pentode Unit as Amplifier	For other characteristics, refer to Type 1F7-G.									
1F7-G	Duplex-Diode Pentode	D9	G-7AF	D.C. F	2.0	0.06	Pentode Unit as RF Amplifier	180	- 1.5	67.5	0.7	2.2	1.0 $\S$	650	—	—	—
							Pentode Unit as AF Amplifier	135 $\times$	- 2.0	Screen Supply, 135 volts applied through 0.8-megohm resistor Grid Resistor, ** 1.0 megohm. Voltage Gain, 46.							
1G4-GT	Medium-Mu Triode	C2b	G-5Y	D.C. F	1.4	0.05	Class A Amplifier	90	- 6.0	—	—	2.3	10700	825	8.8	—	—
1G5-G	Power Amplifier Pentode	D10	G-8X	D.C. F	2.0	0.12	Class A Amplifier	90 135	- 6.0 - 13.5	90 135	2.5 2.5	8.5 8.7	133000 160000	1500 1550	—	8500 9000	0.25 0.55

Discontinued types are shown in light face.



Type	Name	Tube Dimensions and Socket Connections		Cathode Type and Rating			Use Values to right give operating conditions and characteristics for indicated typical use	Plate Supply Volts	Grid Bias m Volts	Screen Supply Volts	Screen Current Ma	Plate Current Ma	AC Plate Resistance Ohms	Trans-conductance (Grid-plate) umhos	Amplification Factor	Load for Stated Power Output Ohms	Power Output Watts
		Dims.	S. C.	C. I.	Volts	Amp.											
1G6-GT	Twin-Triode Amplifier	C2b	G-7AB	D.C. F	1.4	0.10	Class B Amplifier	90	0	—	—	—	—	—	—	—	—
1H4-G	Detector* Amplifier	D3	G-55 <sub>2</sub>	D.C. F	2.0	0.06	Class A Amplifier	90	-4.5	—	—	2.5	11000	850	9.3	—	—
								135	-9.0	—	—	3.0	10300	900	9.3	—	—
								180	-13.5	—	—	3.1	10300	900	9.3	—	—
1H5-GT	Diode High-Mu Triode	C3	G-52K	D.C. F	1.4	0.05	Triode Unit as Class A Amplifier	90	0	—	—	0.15	240000	275	65	—	—
1H6-G	Duplex-Diode Triode	D3	G-7AA	D.C. F	2.0	0.06	Triode Unit as Class A Amplifier	135	-3.0	—	—	0.8	35000	575	20	—	—
1J5-G	Power Pentode	D10	G-6X	D.C. F	2.0	0.12	Class A Amplifier	135	-16.5	135	2.0	7.0	105000	950	—	13500	0.45
1J6-G	Twin-Triode Amplifier	C10	G-7AB	D.C. F	2.0	0.24	Class B Amplifier	135	0	—	—	—	—	—	—	—	—
1J6-GT	Twin-Triode Amplifier	C10	G-7AB	D.C. F	2.0	0.24	Class B Amplifier	135	-3.0	—	—	—	—	—	—	—	—
1L4	RF Amplifier Pentode	B0	6AR	D.C. F	1.4	0.05	Class A Amplifier	90	0	67.5	1.2	2.9	600000	925	—	—	—
								90	0	90	2.0	4.5	260000	1025	—	—	—
1L6	Pentagrid Converter	B0	7DC	D.C. F	1.4	0.05	Converter	90	0	45	0.6	0.5	650000	Anode-Grid (#2): 90 max. volts, 1.2 ma. Oscillator Grid (#1) Resistor, 0.2 meg. Conversion Transcond., 300 micromhos.	—	—	—
1LA4	Power Amplifier Pentode	B5	5AD <sub>1</sub>	D.C. F	1.4	0.05	Amplifier	For other characteristics, refer to Type 1A5-GT.									
1LA6	Pentagrid Converter	B5	7AK	D.C. F	1.4	0.05	Converter	90	0	45	0.6	0.55	750000	Anode-Grid (#2): 90 max. volts, 1.2 ma. Oscillator Grid (#1) Resistor, 0.2 meg. Conversion Transcond., 250 micromhos.	—	—	—
1LB4	Power Amplifier Pentode	B5	5AD <sub>2</sub>	D.C. F	1.4	0.05	Class A Amplifier	For other characteristics, refer to Pentode Unit of Type 1D8-GT.									
1LC5	Sharp-Cutoff Pentode	B5	7AO	D.C. F	1.4	0.05	Class A Amplifier	45	0	45	0.35	1.10	700000	750	—	—	—
								90	0	45	0.30	1.15	1.05	775	—	—	—
1LC6	Pentagrid Converter	B5	7AK	D.C. F	1.4	0.05	Converter	45	0	35	0.75	0.70	300000	Anode-Grid (#2): 50 max. volts, 1.4 ma. Oscillator-Grid (#1) Resistor, 0.2 meg. Conversion Transcond., 275 micromhos.	—	—	—
								90	0	35	0.70	0.75	650000	—	—	—	—
1LD5	Diode-Pentode	B5	8AX	D.C. F	1.4	0.05	Pentode Unit as Class A Amplifier	Plate Supply, 90 v applied through 1 meg. resistor. Screen Supply, 90 v applied through 5.6 meg. resistor. Grid Bias, 0 v. Grid Resistor, 10 megohms. Voltage Gain, 101 approx.									
1LE3	Medium-Mu Triode	B5	4AA	D.C. F	1.4	0.05	Class A Amplifier	90	0	—	—	4.5	11200	1300	14.5	—	—
								90	-3	—	—	1.4	19000	750	14.5	—	—
1LG5	Remote-Cutoff Pentode	B5	7AO	D.C. F	1.4	0.05	Class A Amplifier	90	0	45	0.4	1.7	1.05	800	—	—	—
								90	-1.5	90	0.9	3.7	500000	1150	—	—	—

1LH4	Diode High-Mu Triode	B5	5AG	D.C. F	1.4	0.05	Triode Unit as Class A Amplifier	For other characteristics, refer to Type 1H5-GT.									
1LN5	Sharp-Cutoff Pentode	B5	7AO	D.C. F	1.4	0.05	Class A Amplifier	90	0	90	0.35	1.6	1.15	800	—	—	—
1N5-GT	Sharp-Cutoff Pentode	C3	GT-5YK	D.C. F	1.4	0.05	Class A Amplifier	90	0	90	0.3	1.2	1.55	750	—	—	—
1N6-G	Diode-Power Amplifier Pentode	D1	G-7AM	D.C. F	1.4	0.05	Pentode Unit as Class A Amplifier	90	-4.5	90	0.7	3.4	300000	800	—	25000	0.1
1P5-GT	Remote-Cutoff Pentode	C3	GT-5YK	D.C. F	1.4	0.05	Class A Amplifier	90	0	90	0.7	2.3	800000	750	—	—	—
1Q5-GT	Beam Power Tube	C2b	G-6AF	D.C. F	1.4	0.1	Class A Amplifier	90	-4.5	90	1.3	9.5	90000	2200	—	8000	0.27
1R5	Pentagrid Converter	B0	7AT	D.C. F	1.4	0.05	Converter	45	0	45	1.9	0.7	600000	Grid #1 Resistor, 100000 ohms. Conversion Transcond., 300 umhos.	—	—	—
								90	0	67.5	3.2	1.6	600000	—	—	—	—
1S4	Power Amplifier Pentode	B0	7AV	D.C. F	1.4	0.1	Class A Amplifier	45	-4.5	45	0.8	3.8	100000	1250	—	8000	0.065
								90	-7.0	67.5	1.4	7.4	100000	1575	—	8000	0.27
1S5	Diode-Pentode	B0	8AU	D.C. F	1.4	0.05	Pentode Unit as AF Amplifier	Plate Supply, 90 v applied through 1 meg. resistor. Screen Supply, 90 v applied through 3.1 meg. resistor. Grid Bias, 0 volts. Grid Resistor, 10 megohms. Voltage Gain, 66 approx.									
1T4	Remote-Cutoff Pentode	B0	6AR	D.C. F	1.4	0.05	Class A Amplifier	45	0	45	0.7	1.7	350000	700	—	—	—
								90	0	67.5	1.4	3.5	500000	900	—	—	—
1T5-GT	Beam Power Tube	C2b	G-6X	D.C. F	1.4	0.05	Class A Amplifier	90	-6.0	90	0.8	6.5	250000	1150	—	14000	0.17
1T6	Diode-Pentode	A	8DA	F	1.25	0.04	Pentode Unit as Class A Amplifier	30	0	30	0.10	0.33	500000	330	—	—	—
								45	0	45	0.21	0.75	500000	475	—	—	—
								67.5	0	67.5	0.4	1.6	400000	600	—	—	—
1U4	Sharp-Cutoff Pentode	B0	6AR	D.C. F	1.4	0.05	Class A Amplifier	90	0	90	0.50	1.0	1.05	900	—	—	—
1U5	Diode-Pentode	B0	8BW	D.C. F	1.4	0.05	Pentode Unit as Class A Amplifier	Plate Supply, 90 volts applied through 1 meg. resistor. Screen Supply, 90 volts applied through 3.1 meg. resistor. Grid Bias, 0 volts. Grid Resistor, 10 megohms. Voltage Gain, 66 approx.									
1-V	Half-Wave Rectifier	D5	4G	H	6.3	0.3	With Capacitive-Input Filter	Max. AC Plate Volts (RMS), 325 Min. Total Effective Plate-Supply Impedance: Up to 117 volts, 0 ohms; at 150 volts, 30 ohms; at 325 volts, 75 ohms.									
1V2	Half-Wave Rectifier	B0a	9U	F	0.625	0.3	Pulsed Rectifier	Max. Peak Inverse Plate Volts, 7500					Max. Average Plate Ma., 0.5				
								Max. Peak Plate Ma., 10									
1X2-A	Half-Wave Rectifier	B4	9V	F	1.25	0.2	Half-Wave Rectifier	Max. Peak Inverse Plate Volts, 18000					Max. Average Plate Ma., 1				
								Max. Peak Plate Ma., 10									
1X2-B	Half-Wave Rectifier	B4	9V	F	1.25	0.2	Pulsed-Rectifier in Scanning Systems of TV Receivers	Max. Peak Inverse Plate Volts, 22000 (Absolute Value)					Max. Average Plate Ma., 0.5				
								Max. Peak Plate Ma., 45									
2A3	Power Amplifier Triode	E3	4D	F	2.5	2.5	Class A Amplifier	250	-45.0	—	—	60.0	800	5250	4.2	2500	3.5
								300	Cath. Bias, 780 ohms	—	—	80.0	—	—	—	5000	10.0
								300	-62 volts, fixed bias	—	—	80.0	—	—	—	3000	15.0
2A4-G	Glow-Discharge Triode	D3	G-55 <sub>7</sub>	D.C. F	2.5	2.5	Relay Service	Max. Peak Inverse Anode Volts, 200					Max. Peak Anode Current, 1.25 ampere				
								Max. Peak Forward Anode Volts, 200					Max. Av. Anode Current, 0.1 ampere				

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Type	Name	Tube Dimensions and Socket Connections		Cathode Type and Rating		Use Values to right give operating conditions and characteristics for indicated typical use	Plate Supply Volts	Grid Bias Volts	Screen Supply Volts	Screen Current Ma	Plate Current Ma	AC Plate Resistance Ohms	Trans-conductance (Grid-plate) $\mu$ mhos	Amplification Factor	Load for Stated Power Output Ohms	Power Output Watts		
		Dims.	S. C.	C. T.	Volts												Amp.	
2A5	Power Amplifier Pentode	D12	8B	H	2.5	1.75											For other characteristics, refer to Type 6F6-G.	
2A6	Duplex-Diode High-Mu Triode	D9	8G	H	2.5	0.8											For other characteristics, refer to Type 6SQ7.	
2A7	Pentagrid Converter	D9	7C	H	2.5	0.8											For other characteristics, refer to Type 6A8	
2AF4-A	UHF Oscillator Triode	B9	7DK	H	2.35	0.6	Class A Amplifier		80	Cath. Bias Res., 150 ohms	16	2270	6600	15	—	—	—	For other characteristics, refer to Type 6B8-G.
							100	22										
2B7	Duplex-Diode Pentode	D9	7D	H	2.5	0.8											For other characteristics, refer to Type 6B8-G.	
2E5	Electron-Ray Tube	D5	8R	H	2.5	0.8											For other characteristics, refer to Type 6E5.	
3A2	Half-Wave Rectifier	B4	9DT	H	3.15	0.22											Max Peak Inverse Plate Volts, 18000 Max Peak Plate Ma., 80 Max Average Plate Ma., 1.5	
3A3	Half-Wave Rectifier	D2	8EZ	H	3.15	0.22											Max Peak Inverse Plate Volts, 30000 Max Peak Plate Ma., 80 Max Average Plate Ma., 1.5	
3A8-GT	Diode-Triode RF Amplifier Pentode	C8	8AS	D.C. F	1.4	0.1	Triode Unit as Class A Amplifier		90	0	—	0.2	200000	325	65	—	—	For other characteristics, refer to Type 6E5.
							90	90										
3AL5	Twin-Diode	A1	6BT	H	3.15	0.6											Max Peak Inverse Volts, 330 Max Peak Plate Ma. per Plate, 54 Max DC Output Ma. per Plate, 9 Max. Peak Heater-Cathode Volts, 330	
3AU6	Sharp-Cutoff Pentode	B0	7BK <sub>1</sub>	H	3.15	0.6											Class A Amplifier 100 Cath. Bias 100 2.1 5.0 500000 3900 Cath. Bias Res., 150 ohms 250 250 150 4.3 10.6 1.0 5200 Cath. Bias Res., 68 ohms	
3AV6	Twin-Diode High-Mu Triode	B0	7BT	H	3.15	0.6											Triode Unit as Class A Amplifier 100 - 1.0 - - - 0.5 80000 1250 100 250 - 2.0 - - - 1.2 62500 1600 100	
3B2	Half-Wave Rectifier	E1a	26	H	3.15	0.22											Max DC Inverse Plate Volts, 25000 Max Peak Inverse Plate Ma., 80 Max Average Plate Ma., 1.1 Max. Total DC and Peak Inverse Plate Volts, 35000 (Absolute)	
3BC5	Sharp-Cutoff Pentode	B0	7BD	H	3.15	0.6											Class A Amplifier 250 Cath. Bias 150 2.1 7.6 800000 5700 Cath. Bias Res., 180 ohms	
3BY6	Pentagrid Amplifier	B0	7CH	H	3.15	0.6											Synce Separator and Synce Clipper 10 0 25 3.5 1.4 Grid-No. 3 Volts, 0	

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3BZ6	Semiretrecte-Cutoff Pentode	B0	7CM	H	3.15	0.3											Class A Amplifier 200 Cath. Bias 150 2.6 11 0.6 6100 Cath. Bias Res., 180 ohms	
3CB6	Sharp-Cutoff Pentode	B0	7CM	H	3.15	0.6											Class A Amplifier 200 Cath. Bias 150 2.8 9.5 600000 6200 Cath. Bias Res., 180 ohms	
3CF6	Sharp-Cutoff Pentode	B0	7CM	H	3.15	0.6											Class A Amplifier 200 - 6.5 150 2.8 9.5 600000 6200 Cath. Bias Res., 180 ohms	
3LF4	Beam Power Tube	B5	6BB	D.C. F	1.4	0.1											Class A Amplifier For other characteristics, refer to Type 3Q5-GT.	
3Q4	Power Amplifier Pentode	B0	7BA	D.C. F	1.4	0.1											Class A Amplifier For other characteristics, refer to Type 3V4	
3Q5-GT	Beam Power Tube	C2b	G-7AP	D.C. F	1.4	0.1	Class A Amplifier		110	- 6.6	110	1.4	10.0	100000	2200	—	8000	0.40
							110	- 6.6	110	1.1	8.5	110000	2000	—	8000	0.33		
3S4	Power Amplifier Pentode	B0	7BA	D.C. F	1.4	0.1	Class A Amplifier		90	- 7	67.5	1.4	7.4	100000	1575	—	8000	0.27
							90	- 7	67.5	1.1	6.1	100000	1425	—	8000	0.235		
3V4	Power Amplifier Pentode	B0	6BX	D.C. F	1.4	0.1	Class A Amplifier		90	- 4.5	90	2.1	9.5	100000	2150	—	10000	0.27
							90	- 4.5	90	1.7	7.7	120000	2000	—	10000	0.24		
4BQ7-A	Medium-Mu Twin-Triode	B0a	9AJ	H	4.2	0.6											Each Unit as Class A Amplifier 150 Cathode Bias Res., 220 ohms 9.0 6100 6400 39 Cutoff Volts, -10	
4BZ7	Medium-Mu Twin-Triode	B0a	9AJ	H	4.2	0.6											Each Unit as Class A Amplifier 150 Cathode Bias Res., 220 ohms 10 5600 6800 38 Cutoff Volts, -11	
5AM8	Diode-Sharp-Cutoff Pentode	B0a	27	H	4.7	0.6	Diode Unit		Max. DC Plate Ma., 5				Max. Peak Heater-Cathode Volts, $\pm$ 200 DC Volts Not to Exceed +100					
							Pentode Unit as Class A Amplifier		200	Cath. Bias	150	2.7	11.5	—	7000	Cath. Bias Res., 120 ohms		
5AN8	Medium-Mu Triode-Sharp-Cutoff Pentode	B0a	9DA	H	4.7	0.6	Triode Unit as Class A Amplifier		200	- 6	—	—	13	5750	3300	19	—	—
							Pentode Unit as Class A Amplifier		200	Cath. Bias	150	2.8	9.5	300000	6200	Cath. Bias Res., 180 ohms		
5AQ5	Beam Power Tube	B1	7BZ	H	4.7	0.6	Single Tube Class A Amplifier		180	- 8.5	180	3.0	29.0	58000	3700	—	5500	2.0
							Push-Pull Class AB <sub>1</sub> Amplifier		250	- 12.5	250	4.5	45.0	52000	4100	—	5000	4.5
5AS4	Full-Wave Rectifier	E3a	G-5T <sub>1</sub>	H	4.7	3.0	With Capacitive-Input Filter		Max. AC Volts per Plate (RMS), 550				Max. DC Output Ma., 300		Min. Total Effect. Supply Imped. per Plate, 97 ohms			
							With Inductive-Input Filter		Max. AC Volts per Plate (RMS), 550				Max. DC Output Ma., 275		Min. Value of Input Choke, 10 henries			
5AS8	Diode-Sharp-Cutoff Pentode	B0a	9DS	H	4.7	0.6	Diode Unit		Max. Peak Inverse Plate Volts, 330				Max. Average Plate Ma., 5.0					
							Pentode Unit as Class A Amplifier		200	Cath. Bias	150	3.0	9.5	300000	6200	Cath. Bias Res., 180 ohms		
5AT8	Triode-Pentode Converter	B0a	8AK	H	4.7	0.45	Triode Unit as 250-Mc. Oscillator		150	Grid Resistor, 2700 ohms Grid Current, 3.6 Ma.				Plate Current, 13 Ma. Power Output (Approx.), 0.5 Watt				
							Pentode Unit as Mixer		150	Grid-No. 2 Volts, 150 Mixer Grid-No. 1 Supply Volts, -3.5				Osc. Volts at Mixer Grid-No. 1 (RMS), 2.6 Mixer Grid-No. 1 Resistor, 120000 ohms Conversion Transconductance, 2100 $\mu$ mhos				

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Discontinued types are shown in light face.

Type	Name	Tube Dimensions and Socket Connections		Cathode Type and Rating			Use Values to right give operating conditions and characteristics for indicated typical use	Plate Supply Volts	Grid Bias V	Screen Supply Volts	Screen Current Ma	Plate Current Ma	AC Plate Resistance Ohms	Trans-conductance (Grid-plate) $\mu$ hos	Amplification Factor	Load for Stated Power Output Ohms	Power Output Watts
		Dimen.	S. C.	C. T.	Volts	Amp.											
5AZ4	Full-Wave Rectifier	C2a	5T	F	5.0	2.0	For ratings and characteristics, refer to Type 5Y3-GT										
5J6	Medium-Mu Twin-Triode	80	7BF	H	4.7	0.6	Each Unit as Class A Amplifier	100	Cath. Res., 220 ohms, both units	—	8.5	7100	5300	38	—	—	
							Push-Pull Class C Amplifier	150	-10	Cath. Res., 220 ohms, both units	30	Grid Current, 16 Ma. Driving Power, 0.35 Watt		—	3.5		
5T4	Full-Wave Rectifier	D7	5T	F	5.0	2.0	With Capacitive-Input Filter	Max. AC Volts per Plate (RMS), 450		Max. DC Output Ma., 225		Min. Total Effect. Supply Imped. per Plate, 150 ohms					
							With Inductive-Input Filter	Max. AC Volts per Plate (RMS), 550		Max. DC Output Ma., 225		Min. Value of Input Choke, 3 henries					
5U4-G	Full-Wave Rectifier	E2	G-5T <sub>1</sub>	F	5.0	3.0	With Capacitive-Input Filter	Max. AC Volts per Plate (RMS), 450		Max. DC Output Ma., 225		Min. Total Effect. Supply Imped. per Plate, 170 ohms					
							With Inductive-Input Filter	Max. AC Volts per Plate (RMS), 550		Max. DC Output Ma., 225		Min. Value of Input Choke, 10 henries					
5U4-GB	Full-Wave Rectifier	D12a	G-5T <sub>1</sub>	H	5.0	3.0	With Capacitive-Input Filter	Max. AC Volts per Plate (RMS), 550		Max. DC Output Ma., 300		Min. Total Effect. Supply Imped. per Plate, 97 ohms					
							With Inductive-Input Filter	Max. AC Volts per Plate (RMS), 550		Max. DC Output Ma., 275		Min. Value of Input Choke, 10 henries					
5U8	Triode-Remote-Cutoff Pentode	80a	9AE	H	4.7	0.6	Triode Unit as Class A Amplifier	150	Cath. Bias	—	18	5000	8500	40	Cath. Res., 56 ohms		
							Pentode Unit as Class A Amplifier	250	Cath. Bias	110	3.5	10	40000	5200	—	Cath. Res., 68 ohms	
5V4-G	Full-Wave Rectifier	D10	G-5L <sub>1</sub>	H	5.0	2.0	With Capacitive-Input Filter	Max. AC Volts per Plate (RMS), 375		Max. DC Output Ma., 175		Min. Total Effect. Supply Imped. per Plate, 100 ohms					
							With Inductive-Input Filter	Max. AC Volts per Plate (RMS), 500		Max. DC Output Ma., 175		Min. Value of Input Choke, 4 henries					
5W4	Full-Wave Rectifier	C2	5T	F	5.0	1.5	With Capacitive-Input Filter	Max. AC Volts per Plate (RMS), 350		Max. DC Output Ma., 100		Min. Total Effect. Supply Imped. per Plate, 50 ohms					
							With Inductive-Input Filter	Max. AC Volts per Plate (RMS), 400		Max. DC Output Ma., 100		Min. Value of Input Choke, 6 henries					
5W4-GT	Full-Wave Rectifier	C5	G-5T <sub>1</sub>	F	5.0	1.5	With Inductive-Input Filter	Max. AC Volts per Plate (RMS), 500		Max. DC Output Ma., 100		Min. Value of Input Choke, 6 henries					
5X4-G	Full-Wave Rectifier	E2	G-5Q	F	5.0	3.0	For other ratings, refer to Type 5U4-G.										
5X8	Triode-Pentode Converter	80a	9AK	H	4.7	0.6	Triode Unit as 250-Mc. Oscillator	150	Grid Resistor, 2700 ohms		Plate Current, 13 Ma.		Power Output (Approx.), 0.5 Watt				
							Pentode Unit as Mixer	150	Grid-No 2 Volts, 150	Mixer Grid No. 1 Supply Volts, -3.5	Osc. Volts at Mixer Grid No. 1 (RMS), 7.6	Mixer Grid No. 1 Resistor, 120000 ohms	Conversion Transconductance, 2100 $\mu$ hos				

5Y3-G 5Y3-GT	Full-Wave Rectifiers	D10 C5	G-5T; G-5T <sub>1</sub>	F	5.0	2.0	With Capacitive-Input Filter	Max. AC Volts per Plate (RMS), 350		Max. DC Output Ma., 125		Min. Total Effect. Supply Imped. per Plate, 50 ohms						
							With Inductive-Input Filter	Max. AC Volts per Plate (RMS), 500		Max. DC Output Ma., 125		Min. Value of Input Choke, 10 henries						
5Y4-G	Full-Wave Rectifier	D10	G-5Q	F	5.0	2.0	For other ratings, refer to Type 5Y3-GT.											
5Z3	Full-Wave Rectifier	E3	4C	F	5.0	3.0	For other ratings, refer to Type 5U4-G.											
5Z4	Full-Wave Rectifier	C2	8L	H	5.0	2.0	With Capacitive-Input Filter	Max. AC Volts per Plate (RMS), 350		Max. DC Output Ma., 125		Min. Total Effect. Supply Imped. per Plate, 50 ohms						
							With Inductive-Input Filter	Max. AC Volts per Plate (RMS), 500		Max. DC Output Ma., 125		Min. Value of Input Choke, 5 henries						
6A3	Power Amplifier Triode	E3	4D	F	6.3	1.0	Amplifier	For other characteristics, refer to Type 6B4-G.										
6A4/LA	Power Amplifier Pentode	D12	5B	F	6.3	0.3	Class A Amplifier	100 180	- 6.5 -12.0	100 180	1.6 3.9	9.0 22.0	83250 45500	1200 2200	— —	11000 8000	0.31 1.40	
6A6	Twin-Triode Amplifier	D12	7B	H	6.3	0.8	Amplifier	For other characteristics, refer to Type 6N7-GT.										
6A7 6A7S	Pentagrid Converters	D9	7C	H	6.3	0.3	Converter	For other characteristics, refer to Type 6A8.										
6A8 6A8-G 6A8-GT	Pentagrid Converters	C1 D8 C3	8A G-8A; GT-8A <sub>2</sub>	H	6.3	0.3	Converter	100	- 1.5	50	1.3	1.1	600000	Anode-Grid (#2): 250 $\mu$ max. v. 4.0 ma. Oscillator-Grid (#1) Res. $\mu$ Conversion Transcond., 550 $\mu$ hos.				
								250	- 3.0	100	2.7	3.5	360000					
6AB4	High-Mu Triode	B0	5CE	H	6.3	0.15	Class A Amplifier	100 250	Cath. Res., 270 ohms	3.7 10.0	15000 10900	4000 5500	60 60	— —	— —			
6AB5/ 6N5	Electron-Ray Tube Indicator Type	D4	8R	H	6.3	0.15	Visual Indicator	Plate & Target Supply = 135 volts. Triode Plate Resistor = 0.25 meg. Target Current = 2.0 ma. Grid Bias, - 10.0 volts; Shadow Angle, 0°. Bias, 0 volts; Angle, 90°; Plate Current, 0.5 ma. Plate & Target Supply = 135 volts. Triode Plate Resistor = 1.0 meg. Target Current = 1.9 ma. Grid Bias, -15.5 volts; Shadow Angle, 0° Bias, 0 volts; Angle 90°; Plate Current, 0.13 ma.										
6AB7	Remote-Cutoff Pentode	B2	8N	H	6.3	0.45	Class A Amplifier	300	- 3.0	200	3.2	12.5	700000	5000	—	—		
6AC5-GT	High-Mu Power Amplifier Triode	C2b	G-6Q <sub>1</sub>	H	6.3	0.4	Class B Amplifier	250	0	—	—	5.0 $\mu$	—	—	10000	8.01		
							Dynamic-Coupled Amplifier With 76 Driver	250	Bias for both 6AC5-GT and 76 is developed in coupling circuit. Average Plate Current of Driver = 5.5 milliamperes. Average Plate Current of 6AC5-GT = 32 milliamperes.		7000	3.7						
6AC7	Sharp-Cutoff Pentode	B2	8N	H	6.3	0.45	Class A Amplifier	300	Cath. Bias	150	2.5	10.0	1.0 $\mu$	9000	—	Cathode-Bias Resistor, 160 ohms		
6AD6-G	Electron-Ray Tube Twin Indicator Type	B5a	7AC	H	6.3	0.15	Visual Indicator	Target Voltage, 100 volts. Control-Electrode Voltage, - 23 volts; Shadow Angle, 135°; Target Current, 0.8 ma. Control-Electrode Voltage, 45 volts; Angle, 0°; Target Current, 1.5 ma.		Target Voltage, 150 volts. Control-Electrode Voltage, - 50 volts; Shadow Angle, 135°; Target Current, 1.2 ma. Control-Electrode Voltage, 75 volts; Angle, 0°; Target Current, 3 ma.								

Discontinued types are shown in light face.

Type	Name	Tube Dimensions and Socket Connections		Cathode Type and Rating	Use	Plate Supply Volts	Screen Supply Volts	Screen Current Ma.	Plate Current Ma.	AC Plate Resistance Ohms	Trans-conductance (Grid-plate) umhos	Amplification Factor	Load Impedance Ohms	Power Output Watts
		Dimmt.	S. C.											
6AD7-G	Triode-Power Amplifier Pentode	D10	8AY	H	6.3	0.85	250	6.5	31.0	80000	2500	6	7000	3.2
6AE5-GT	Amplifier Triode	C5	G-6Q1	H	6.3	0.3	250	6.5	41.0	Cathode-Bias Resistor, 470 ohms	1200	4.2	16000	9.0
6AE6-G	Twin-Plate Control Tube	D3	7AH	H	6.3	0.15	250	6.5	7.0	35000	1000	25	—	—
6AE7-GT	Twin-Input Triode Amplifier	C2b	G-7AX	H	6.3	0.5	250	6.5	7.0	35000	950	3.3	—	—
6AF4	UIF Oscillator Triode	B0	7DK	H	6.3	0.225	250	6.5	10.0	4650	3000	11	10000	9.5
6AF4-A	Medium-Mu Triode	A1	7DK	H	6.3	0.225	250	6.5	10.0	4650	3000	11	10000	9.5
6AF6-G	Electron-Ray Tube Twin Indicator Type	B0b	7AG	H	6.3	0.15	250	6.5	7.0	35000	950	3.3	—	—
6AG5	Sharp-Cutoff Pentode	B0	7BD	H	6.3	0.3	250	6.5	7.0	35000	950	3.3	—	—
6AG7	Power Pentode	C2	8Y	H	6.3	0.65	300	6.5	7.0	35000	950	3.3	—	—

For other characteristics, refer to type 6AF4

Target Voltage, 125 volts. Control-Electrode Voltage, 0 volts; Shadow Angle, 95°; Target Current, 0.65 ma. Control-Electrode Voltage, 80 volts; Angle, 0°

Target Voltage, 250 volts. Control-Electrode Voltage, 0 volts; Shadow Angle, 95°; Target Current, 2.2 ma. Control-Electrode Voltage, 160 volts; Angle, 0°

100 Cath. 100 1.4 4.5 600000 4500 Cath. Bias Res., 180 ohms  
 250 Bias 150 2.0 6.5 800000 5000 Cath. Bias Res., 180 ohms  
 180 Cath. As Triode 180 7.0 8000 5700 Cath. Bias Res., 330 ohms  
 250 Bias As Class A Amplifier 250 5.5 10000 3800 Cath. Bias Res., 820 ohms  
 Cath. Bias Resistor, 57 ohms.  
 300 Cath. Class A Amplifier 300 28.0 Peak-to-Peak Volts Output, 140 approx.

Type	Name	Dimensions and Socket Connections	C.T.	V.C.	Cathode Type and Rating	Use	Plate Supply Volts	Screen Supply Volts	Screen Current Ma.	Plate Current Ma.	AC Plate Resistance Ohms	Trans-conductance (Grid-plate) umhos	Amplification Factor	Load Impedance Ohms	Power Output Watts
6AH4-GT	Medium-Mu Triode	C2b	BEL	H	6.3	0.75	300	150	2.5	10.0	500000	9000	19	10000	1.1
6AH6	Sharp-Cutoff Pentode	B0	7BK	H	6.3	0.45	120	120	2.5	7.5	300000	5000	—	—	—
6AK5	Sharp-Cutoff Pentode	A1	7BD	H	6.3	0.175	180	120	2.4	7.7	500000	5100	—	—	—
6AK6	Power Amplifier Pentode	B0	7BK	H	6.3	0.15	180	—	9.0	180	2.5	15	200000	2300	—
6AL5	Twin Diode	A1	6BT	H	6.3	0.3	180	—	9.0	180	2.5	15	200000	2300	—
6AL7-GT	Electron-Ray Tube Indicator Type	C0a	8CH	H	6.3	0.15	180	—	9.0	180	2.5	15	200000	2300	—
6AM8	Diode—Sharp-Cutoff Pentode	B0a	27	H	6.3	0.45	200	150	2.7	11.5	—	7000	—	7000	120 ohms
6AN8	Triode—Sharp-Cutoff Pentode	B0a	8DA	H	6.3	0.45	200	—	6	13.0	5750	3300	19	—	—
6AQ5	Beam Power Tube	B1	7BZ	H	6.3	0.45	180	—	8.5	180	3.0	29.0	3700	5500	2.0
6AQ6	Twin-Diode High-Mu Triode	B0	7BT	H	6.3	0.15	250	—	12.5	250	4.5	45.0	52000	4100	4.5
6AQ7-GT	Twin-Diode High-Mu Triode	C2b	8CK	H	6.3	0.3	250	—	2	2.3	44000	1600	70	—	—
6AR5	Power Pentode	B1	6CC	H	6.3	0.4	250	—	16.5	250	5.7	34.0	65000	2400	7000
6AS5	Beam Power Tube	B1	7CV	H	6.3	0.8	150	—	8.5	110	2.0	35	5600	4500	2.2
6AS7-G	Low-Mu Twin Power Triode	E2	8BD	H	6.3	2.5	135	250	250	125	280	7000	2.0	—	—
6AS8	Diode—Sharp-Cutoff Pentode	B0a	9DS	H	6.3	0.45	200	—	1.0	9.5	300000	6200	—	—	—
6AT6	Twin-Diode High-Mu Triode	B0	7BT	H	6.3	0.3	250	—	3.0	0.8	54000	1300	70	—	—

Max. DC Plate Volts, 500  
 Max. DC Cathode Ma., 60  
 Max. Peak Positive-Pulse Plate Volts, 2000  
 Max. Plate Dissipation, 7.5 watts

Max. Peak Inverse Plate Volts, 330  
 Max. Peak Plate Ma. per Plate, 54  
 Grid Voltage for Pattern Cutoff, -7 volts approx.  
 Deflecting-Electrodes—No. 1, No. 2 and No. 3  
 Voltage = 0V  
 Max. Peak Heater-Cathode Volts, ±200  
 DC Volts Not to Exceed, ±100

Max. DC Plate Ma., 5  
 Cath. Bias Res., 120 ohms

Max. Peak Plate Current (Per Plate), 125 ma  
 Max. Plate Dissipation (Per Plate), 13 watts  
 Max. Average Plate Ma., 5.0

Discontinued types are shown in light face.

Type	Name	Tube Dimensions and Socket Connections		Cathode Type and Rating		Use	Plate Supply Volts	Screen Supply Volts	Screen Current mA	Plate Current mA	AC Plate Resistance Ohms	Trans-conductance (Grid-plate) $\mu$ ms	Amplification Factor	Load for Stated Power Output Ohms	Power Output Watts	
		Diam.	S. C.	C. T.	Volts											Ampl.
6AT8	Triode-Pentode Converter	B9a	9AK	H	6.3	Triode Unit as 250-Mc. Oscillator Pentode Unit as Mixer†	150	Grid Resistor, 2700 ohms Grid Current, 3.6 Ma. Grid-No. 2 Volts, 150 Mixer Grid-No. 1 Supply Volts, -3.5 Plate Current, 6.2 Ma.	—	—	—	—	—	—	Plate Current, 13 ma. Power Output (Approx.), 0.5 watt	
6AU4-GT	Half-Wave Rectifier	C10b	4CG	H	6.3	Television Dampner Service	Max. Peak Inverse Plate Volts, 4500 (Absolute) Max. Plate Dissipation, 6.0 Watts	—	—	—	—	—	—	—	—	—
6AU4-GTA	Half-Wave Rectifier	C10b	4CG	H	6.3	Television Dampner Service	Max. Peak Inverse Plate Volts, 4500 (Absolute) Max. Plate Dissipation, 6.0 Watts	—	—	—	—	—	—	—	—	—
6AU5-GT	Beam Power Tube	C2b	60K	H	6.3	Horizontal Deflection Amplifier in TV Receivers	Max. DC Plate Volts, 550† Max. DC Cathode Ma., 110	—	—	—	—	—	—	—	—	—
6AU6	Sharp-Cutoff Pentode	B0	7BK1	H	6.3	Class A Amplifier	200	100 Cath. 100 Bias	2.1 4.3	5.0 10.6	500000 1.0 $\Omega$	3000 3200	—	—	—	Cath. Bias Res., 150 ohms Cath. Bias Res., 68 ohms
6AU7	Medium-Mu Twin-Triode	B0a	9A	H	3-15 6.3	Each Unit as Class A Amplifier	100 250	0 - 8.5	—	—	—	—	—	—	—	—
6AV5-GT	Beam Power Tube	C2b	60K	H	6.3	Horizontal Deflection Amplifier in TV Receivers	Max. DC Plate Volts, 550† Max. DC Cathode Ma., 110	—	—	—	—	—	—	—	—	—
6AW8	High-Mu Triode-Sharp-Cutoff Pentode	B3	2B	H	6.3	Class A Amplifier	200	- 2	—	4	17500	4000	70	—	—	—
6AV6	Twin-Diode High-Mu Triode	B0	7BT	H	6.3	Class A Amplifier	200	Cath. Bias	150	3.5	400000	9000	—	—	—	Cath. Res., 180 ohms
6AX4-GT	Half-Wave Rectifier	C2b	20	H	6.3	Class A Amplifier	200	- 1.0 - 2.0	—	—	80000 62500	1250 1600	100	—	—	—
6AX5-GT	Full-Wave Rectifier	C2b	G-6S	H	6.3	Class A Amplifier	200	- 6	—	13	5750	3300	19	—	—	—
6AZ8	Medium-Mu Triode-Semimute-Cutoff Pentode	B0a	2B	H	6.3	Class A Amplifier	200	Cath. Bias	150	3	300000	6000	—	—	—	Cath. Res., 180 ohms

Type	Name	Dimensions and Socket Connections	Cathode Type and Rating	Use	Plate Supply Volts	Screen Supply Volts	Screen Current mA	Plate Current mA	AC Plate Resistance Ohms	Trans-conductance (Grid-plate) $\mu$ ms	Amplification Factor	Load for Stated Power Output Ohms	Power Output Watts
6B4-G	Power Amplifier Triode	E2	G-5S	F	250	250	60.0	80.0	800	5250	4.2	2500	3-20
6B5	Direct-Coupled Power Amplifier	D12	6AS	H	325	325	80.0 $\phi$	80.0 $\phi$	—	—	—	5000	10.0†
6B6-G	Twin-Diode Remote-Cutoff Pentode	D8	G-7I	H	325	325	80.0 $\phi$	80.0 $\phi$	—	—	—	3000	15.0†
6BA6	Remote-Cutoff Pentode	B0	7BK1	H	100	100	1.7	5.8	300000	950	—	—	—
6BA7	Pentagrid Converter	B3	8CT	H	300	300	125	2.3	9.0	600000	1125	—	—
6BC4	Medium-Mu Triode	A1b	5DR	H	100	100	10.2	3.6	500000	4300	—	—	—
6BC5	Sharp-Cutoff Pentode	B0	7BD	H	250	250	14.5	48.0	10000	48	—	—	—
6BC7	Triple Diode	B0a	5D	H	250	250	2.1	7.5	800000	5700	—	—	—
6BD4	Sharp-Cutoff Beam Triode	E0	26	H	250	250	1.0	3.0	150000	2550	—	—	—
6BD4-A	Sharp-Cutoff Beam Triode	E0	27	H	250	250	1.0	3.0	150000	2550	—	—	—
6BD6	Remote-Cutoff Pentode	B0	7CC	H	100	100	10.2	3.6	500000	4300	—	—	—
6BE6	Pentagrid Converter	B0	7CH	H	250	250	1.5	100	6.8	2.9	1.0 $\Omega$	—	—
6BF5	Beam Power Tube	B1	7BZ	H	110	110	4.0	36.0	12000	7500	—	—	—
6BF6	Twin-Diode Triode	B0	7BT	H	250	250	9.0	9.5	8500	1900	16	—	—
6BG6-G	Beam Power Tube	F1	5BT	H	250	250	9.0	9.5	8500	1900	16	—	—

Discontinued types are shown in light face.

Type	Name	Tube Dimensions and Socket Connections		Cathode Type and Rating	Use	Plate Supply Volts	Screen Supply Volts	Screen Current Ma.	Plate Current Ma.	AC Plate Resistance Ohms	Trans-conductance (Grid-plate) mhos	Amplification Factor	Load for Stated Power Output Ohms	Power Output Watts
		Dimen.	S. C.											
6BH6	Sharp-Cutoff Pentode	B0	7CM	H	Class A Amplifier	100	100	1.4	3.6	700000	3400	—	—	—
6BJ6	Remote-Cutoff Pentode	B0	7CM	H	Class A Amplifier	250	150	2.9	7.4	1.4-8	4600	—	—	—
6BK4	Sharp-Cutoff Beam Triode	E2a	34	H	Voltage-Control	100	100	3.5	9.0	250000	3650	—	—	—
6BK5	Beam Power Tube	B3	35	H	Class A Amplifier	250	100	3.3	9.2	1.3-8	3600	—	—	—
6BK7-A	Medium-Mu Twin Triode	B0a	9AJ	H	Each Unit as Class A Amplifier	250	250	3.5	35	100000	8500	—	6500	3-5
6BL4	Half-Wave Rectifier	B0b	35	H	Television Dumper Service	150	Cathode Bias Res., 56 ohms	—	18	4600	9300	43	Cutoff Volts, -11	—
6BL7-GT	Medium-Mu Twin Triode	C2b	8BD	H	Vertical Deflection TV Receivers	Max. DC Plate Volts, 500 Max. Peak Inverse Plate Volts, 4500 (Abs.) Max. DC Cathode Ma., 1200 Max. DC Plate Ma., 200	—	—	—	Max. Peak Heater-Cathode Volts, -4500* (Abs.) *DC component not to exceed -900 volts	—	—	—	—
6BQ6-GT	Beam Power Tube	C11	6AM	H	Class A Amplifier	150	Cathode Bias Res., 220 ohms	9.0	5800	6000	35	Cutoff Volts, -10	—	—
6BQ7	Medium-Mu Twin Triode	B0a	9AJ	H	Each Unit as Class A Amplifier	150	Cathode Bias Res., 220 ohms	9.0	6100	6400	39	Cutoff Volts, -10	—	—
6BQ6-GTB/6CQ6	Beam Power Tube	C11	6AM	H	Horizontal Deflection Amplifier in TV Receivers	Max. DC Plate Volts, 600 Max. DC Cathode Ma., 112.5	—	—	—	Max. Peak Positive-Pulse Plate Volts, 6000 (Abs.) Max. Plate Dissipation, 11 Watts	—	—	—	—
6BQ7-A	Medium-Mu Twin Triode	B0a	9AJ	H	Each Unit as Class A Amplifier	150	Cathode Bias Res., 220 ohms	9.0	6100	6400	39	Cutoff Volts, -10	—	—
6BY5-GA	Full-Wave Rectifier	C11a	37	H	Television Dumper Service	10	0	25	3.5	1.4	—	—	—	—
6BY6	Pentagrid Amplifier	B0	7CH	H	Syn Separator and Sync Clipper	200	Cath. Bias	150	2.6	11	0.6	6100	Cath. Bias Res., 180 ohms	—
6BZ6	Semremote-Cutoff Pentode	B0	7CM	H	Class A Amplifier	200	Cath. Bias	150	2.6	11	0.6	6100	Cath. Bias Res., 180 ohms	—
6BZ7	Medium-Mu Twin-Triode	B0a	9AJ	H	Each Unit as Class A Amplifier	150	Cathode Bias Res., 220 ohms	10	5600	6800	38	Cutoff Volts, -11	—	—

6C4	HF Power Triode	B0	6BG	H	Class A Amplifier	100	0	—	11.8	6250	3100	19.5	—	—
6C5	Medium-Mu Triodes	B2	6Q	H	Class C Amplifier	250	-8.5	—	10.5	7700	2200	17	—	—
6C5-GT	Sharp-Cutoff Pentode	C3	GT-6Q-R	H	Class A Amplifier	250	-27.0	—	25.0	Grid Current, 7 ma. Driving Power, 0.35 watt	—	—	—	5.5
6C6	Sharp-Cutoff Pentode	D13	8F	H	Class A Amplifier	250	-8.0	—	8.0	10000	2000	20	—	—
6C7	Twin-Diode Triode	D8	7G	H	Triode Unit as Class A Amplifier	250	-9.0	—	4.5	16000	1250	20	—	—
6C8-G	Twin-Triode Amplifier	D8	G-8G	H	Each Unit as Amplifier	250	-4.5	—	3.2	22500	1600	36	—	—
6CB5	Beam Power Tube	E0a	30	H	Horizontal Deflection Amplifier in TV Receivers	Max. DC Plate Volts, 700 Max. DC Plate Ma., 200	—	—	—	Max. Peak Positive-Pulse Plate Volts, 6800 (Abs.) Max. Plate Dissipation, 23 Watts	—	—	—	—
6CB6	Sharp-Cutoff Pentode	B0	7CM	H	Class A Amplifier	200	Cath. Bias	150	2.8	9.5	600000	6200	Cath. Bias Res., 180 ohms	—
6CD6-G	Beam Power Tube	F1	5BT	H	Horizontal Deflection Amplifier in TV Receivers	Max. DC Plate Volts, 700 Max. DC Plate Ma., 170	—	—	—	Max. Peak Positive-Pulse Plate Volts, 6000 Max. Plate Dissipation, 15 watts	—	—	—	—
6CF6	Sharp-Cutoff Pentode	B0	7CM	H	Class A Amplifier	200	-6.5	150	2.8	9.5	600000	6200	Cath. Bias Res., 180 ohms	—
6CG7	Medium-Mu Twin-Triode	B3	9AJ	H	Horizontal Deflection Oscillator in TV Receivers	Max. DC Plate Volts, 300 Max. Peak Neg.-Pulse Grid Volts, 600	—	—	—	Max. DC Cathode Ma., 20 Max. DC Cathode Ma., 20	—	—	—	—
6CL6	Power Pentode	B3	25	H	Vertical Deflection Amplifier in TV Receivers	Max. DC Plate Volts, 300 Max. Peak Neg.-Pulse Grid Volts, 400	—	—	—	Max. DC Cathode Ma., 20 Max. DC Cathode Ma., 20	—	—	—	—
6CM7	Medium-Mu Dual Triode With Dissimilar Units	B3	31	H	Class A Amplifier 4-Mc. Bandwidth Video Circuit	300	-2	300	7.0	30.0	Load Resistor, 3900 ohms Peak-to-Peak Grid No. 1 Signal Volts, 3 Peak-to-Peak Output Volts, 132 approx.	—	—	—
6CS6	Pentagrid Amplifier	B0	7CH	H	Vertical Deflection Oscillator in TV Receivers	Unit No. 1: Max. DC Plate Volts, 500 Max. Peak Neg.-Pulse Grid Volts, 200	—	—	—	Max. DC Cathode Ma., 70 Max. DC Cathode Ma., 15	—	—	—	—
6D6	Remote-Cutoff Pentode	D13	8F	H	Vertical Deflection Amplifier in TV Receivers	Unit No. 2: Max. DC Plate Volts, 500 Max. Peak Positive-Pulse Plate Volts, 2200 (Abs.)	—	—	—	Max. Peak Cathode Ma., 70 Max. Peak Cathode Ma., 70	—	—	—	—
6D7	Sharp-Cutoff Pentode	D13	7H	H	Syn Separator and Sync Clipper Amplifier Mixer	10	0	30	4.1	1.2	Grid-No. 3 Volts = 0	—	—	—

Discontinued types are shown in light face.



Type	Name	Tube Dimensions and Socket Connections	Cathode Type and Rating	Use	Plate Supply Volts	Screen Supply Volts	Screen Current Ma.	Plate Current Ma.	AC Plate Resistance Ohms	Trans-conductance (Grid-plate) umhos	Amplification Factor	Load for Stated Power Output Volts	Power Output Watts
6D8-G	Pentagrid Converter	D8	G-3A1 H 6.3	Converter	135 250	67.5 100	1.7 2.6	3.5 9.0	400000 500000	Anode-Grid (8.2); 250 V max. volts, 4.3 ma. Oscillator-Grid (8.1) Resistor = Conversion Transcond., 350 micromhos.	Cath. Res., 180 ohms	15000 14000	0.75 1.60
6DC6	Semiremote-Cutoff Pentode	B0	7CM H 6.3	Class A Amplifier	200	Cath. Bias	3.0	9.5	0.6	6200	Cath. Bias Res., 180 ohms	—	—
6DE6	Sharp-Cutoff Pentode	B0	7CM H 6.3	Class A Amplifier	200	Cath. Bias	3.0	9.5	0.6	6200	Cath. Bias Res., 180 ohms	—	—
6E5	Electron-Ray Tube	D4	6R H 6.3	Visual Indicator	—	—	—	—	—	—	—	—	—
6E6	Twin-Triode Power Amplifier	D12	7B H 6.3	Class A Amplifier	180 250	-20.0 -27.5	—	—	—	—	—	—	—
6E7	Remote-Cutoff Pentode	D13	7H H 6.3	Amplifier	—	—	—	—	—	—	—	—	—
6F5	High-Mu Triode	C1	5M1 H 6.3	Amplifier	—	—	—	—	—	—	—	—	—
6F5-GT	High-Mu Triode	C2B	G-5M1 H 6.3	Amplifier	250	-16.5 -20.0	6.5 7.0	34.0 38.0	800000 780000	2500 2550	—	7000 7000	3.2 4.8
6F6	Power Pentodes	C2	7S H 6.3	Class A Amplifier	250	-20.0	—	31.0	2600	2600	6.8	4000	0.85
6F6-G	Power Pentodes	D10	G-7S1 H 6.3	Class A Amplifier	315 315	Cath. Bias -24.0	12.0 12.0	62.0 62.0	—	Cath. Bias Resistor, 320 ohms	—	10000 10000	10.51 11.01
6F6-GT	Power Pentodes	C10	G-7S1 H 6.3	Class A Amplifier	375 375	Cath. Bias -26.0	8.0 5.0	34.0 50.0	—	Cath. Bias Resistor, 340 ohms	—	10000 10000	18.51 13.01
6F7	Triode-Remote-Cutoff Pentode	D9	7E H 6.3	Triode Unit as Mixer	350 100 250	Cath. Bias (-3.0) min. -3.0 min.	—	3.5	16000 290000 850000	500 1050 1100	8	—	—
6F8-G	Twin-Triode Amplifier	D9	G-8G H 6.3	Each Unit as Amplifier	250	-10.0	0.6	2.8	—	Oscillator Peak Volts = 7.0. Conversion Transcond. = 300 micromhos.	—	—	—

For other characteristics, refer to Type 6U7-G.  
For other characteristics, refer to Type 6SF5.  
For other characteristics, refer to Type 6SF5.

For other characteristics, refer to Type 6J5.

Type	Name	Tube Dimensions and Socket Connections	Cathode Type and Rating	Use	Plate Supply Volts	Screen Supply Volts	Screen Current Ma.	Plate Current Ma.	AC Plate Resistance Ohms	Trans-conductance (Grid-plate) umhos	Amplification Factor	Load for Stated Power Output Volts	Power Output Watts
6G6-G	Power Amplifier Pentode	D3	G-7S1 H 6.3	Class A Amplifier	135 180	6.0 9.0	135 180	2.0 2.5	11.5 15.0	170000 175000	2100 2500	12000 10000	0.6 1.1
6H6	Twin Diodes	A1a	7Q H 6.3	Voltage Doubler	—	—	—	—	—	—	—	—	—
6J5	Medium-Mu Triode	B2	6Q H 6.3	Class A Amplifier	90	0	—	—	—	—	—	—	—
6J5-GT	Medium-Mu Triode	C3	G-7Q11 H 6.3	Class A Amplifier	100	-12.0	—	—	—	—	—	—	—
6J6	Medium-Mu Twin Triode	B0	7BF H 6.3	Each Unit as Amplifier	100	-10.0	—	—	—	—	—	—	—
6J7	Sharp-Cutoff Pentodes	C1	7R H 6.3	Class A Amplifier	100	3.0	100	0.5	2.0	1.0 + .8	1185	—	—
6J7-G	Sharp-Cutoff Pentodes	D8	G-7R1 H 6.3	Class A Amplifier	250	-4.3	100	0.43	—	—	—	—	—
6J7-GT	Sharp-Cutoff Pentodes	C3	GT-7R2 H 6.3	Class A Amplifier	180 250	-5.3 -8.0	—	—	—	—	—	—	—
6J8-G	Triode-Heptode Converter	D8	G-8H H 6.3	Triode-Grid Resistor, 50000 ohms as Mixer	100	-3.0	100	2.9	1.4	4.05	—	—	—
6K5-GT	High-Mu Triode	C3	GT-5U H 6.3	Class A Amplifier	100	-1.5	—	—	—	—	—	—	—
6K6-GT	Power Pentode	C2b	G-7S1 H 6.3	Class A Amplifier	250	-3.0	100	2.5	1.1	3.0	—	—	—
6K7	Remote-Cutoff Pentodes	C1	7R H 6.3	Class A Amplifier	100	-1.0	100	2.7	9.5	150000	1650	—	—
6K7-G	Remote-Cutoff Pentodes	D8	G-7R1 H 6.3	Class A Amplifier	250	-3.0	100	2.6	10.5	600000	1650	—	—
6K8	Triode-Heptode Converters	C1	8K H 6.3	Superheterodyne Triode Unit as Oscillator	100	-3.0	100	6.2	3.8	400000	—	—	—
6K8-GT	Triode-Heptode Converters	C10	G-8K1 H 6.3	Superheterodyne Triode Unit as Mixer	250	-3.0	100	6.0	2.5	600000	—	—	—
6L5-G	Medium-Mu Triode	D3	G-401 H 6.3	Class A Amplifier	135 250	-5.0 -9.0	—	—	—	—	—	—	—

Max. AC Supply Volts per Plate (RMS), 150  
Min. Total Effect. Plate-Supply Imped., per Plate: half-wave, 30 ohms; full-wave, 15 ohms.  
Max. AC Plate Volts (RMS), 150  
Min. Total Effect. Plate-Supply Impedance: up to 117 volts, 15 ohms; at 150 volts, 40 ohms.  
Max. DC Output Ma., 8 per Plate

Max. DC Output Ma., 8 min.  
Min. Total Effect. Plate-Supply Impedance: up to 117 volts, 15 ohms; at 150 volts, 40 ohms.

Discontinued types are shown in light face.

Type	Name	Tube Dimensions and Socket Connections		Cathode Type and Rating		Use	Plate Supply Volts	Grid Bias	Screen Supply Volts	Screen Current mA	Plate Current mA	AC Plate Resistance Ohms	Trans-conductance (Grid-plate) umhos	Load for Stated Power Output Ohms	Power Output Watts
		Dims.	S.C.	C.T.	Volts										
6L6	Beam Power Tubes	D7	7AC	H	6.3	Class A Amplifier	250	-14.0	250	5.0	72.0	—	—	2500	6.5
							250	Cath. Bias	250	5.4	75.0	—	—	2500	6.5
6L6-G		E2	G-7AC	H	6.3	Class AB <sub>2</sub> Amplifier	270	-17.5	270	11.0	134.0	—	—	5000	17.5†
							270	Cath. Bias	270	11.0	134.0	—	—	5000	18.5†
6L7	Pentagrid Mixers	D1	7T	H	6.3	Class A Amplifier	360	-22.5	270	5.0	88.0	—	—	6000	26.5†
							360	Cath. Bias	270	5.0	88.0	—	—	6000	24.5†
6L7-G	Direct-Comp'd Power Triode	D8	G-7T1	H	6.3	Class A Amplifier	360	-18.0	225	3.5	78.0	—	—	3800	31.0†
							360	Cath. Bias	270	5.0	88.0	—	—	3800	47.0†
6N6-G	High-Mu Twin Power Triodes	C2	8B	H	6.3	Class A Amplifier	250	-20.0	—	—	40.0	—	—	5000	1.4
							250	Cath. Bias	—	—	40.0	—	—	5000	1.3
6N7-GT	Medium-Mu Triode	C2b	G-6Q1	H	6.3	Class A Amplifier	250	-3.0	100	7.1	2.4	—	—	6000	1.3
							250	Cath. Bias	100	6.5	5.3	—	—	6000	—
6P5-GT	Triode-Pentode	D8	G-7U	H	6.3	Class A Amplifier	250	-3.04	100	6.5	5.3	—	—	—	—
							250	Cath. Bias	100	6.5	5.3	—	—	—	—
6Q7	Twin-Diode High-Mu Triodes	D8	G-7V1	H	6.3	Class A Amplifier	250	-5.0	—	—	—	—	—	—	—
							250	Cath. Bias	—	—	—	—	—	—	—
6Q7-GT	Twin-Diode Medium-Mu Triodes	C1	G-7V2	H	6.3	Class A Amplifier	250	-9.0	—	—	—	—	—	—	—
							250	Cath. Bias	—	—	—	—	—	—	—
6R7	Medium-Mu Triode	D8	G-7V1	H	6.3	Class A Amplifier	250	-3.0	100	7.1	2.4	—	—	—	—
							250	Cath. Bias	100	6.5	5.3	—	—	—	—
6S4	Medium-Mu Triode	B3	9AC	H	6.3	Class A Amplifier	250	-3.0	100	7.1	2.4	—	—	—	—
							250	Cath. Bias	100	6.5	5.3	—	—	—	—

For other characteristics, refer to Type 76.

For other characteristics, refer to Type 6F7.

Output Triode: Plate Volts, 300; Grid Volts, 0; A-F Signal Volts (Peak), 21; Plate M.A., 8.

Triode: Plate Volts, 300; Grid Volts, 0; A-F Signal Volts (Peak), 21; Plate M.A., 8.

300X Cath. Bias, 3000 ohms. Grid Resistor, \*\* 0.5 megohm. (Gain per stage = 45)

250 Cath. Bias, 5400 ohms. Grid Resistor, \*\* 0.22 megohm. (Gain per stage = 11)

300X Cath. Bias, 5000 ohms. Grid Resistor, \*\* 0.22 megohm. (Gain per stage = 12)

Max. DC Plate Volts, 500

Max. DC Cathode M.A., 30

Max. Peak Positive-Pulse Plate Volts, 2000

Max. Plate Dissipation, 7.5 watts

Type	Name	Dimen.	S.C.	C.T.	Volts	Amp.	Use	Plate Supply Volts	Grid Bias	Screen Supply Volts	Screen Current mA	Plate Current mA	AC Plate Resistance Ohms	Trans-conductance (Grid-plate) umhos	Load for Stated Power Output Ohms	Power Output Watts	
6S4-A	Medium-Mu Triode	B3	9AC	H	6.3	0.6	Vertical Deflection Amplifier in TV Receivers	100	-1.0	100	10.2	3.6	500000	Grid #1 Resistor, 20000 ohms	—	—	
6S7	Remote-Cutoff Pentodes	C1	7R	H	6.3	0.15	Class A Amplifier	135	-3.0	67.5	0.9	3.7	1.0	1250	—	—	—
								250	-3.0	100	2.0	8.5	1.0	1750	—	—	—
6S8-GT	Triple-Diode Triode	C6a	8CB	H	6.3	0.3	Triode Unit as Class A Amplifier	100	-1.0	—	—	—	—	—	—	—	—
								250	-2.0	—	—	—	—	—	—	—	—
6SA7	Pentagrid Converter	B2	8R	H	6.3	0.3	Mixer	100	Self-Excited	100	8.5	3.3	500000	Grid #1 Resistor, 20000 ohms.	—	—	
								250	Excited	100	8.5	3.5	1.0	—	Conversion Transcond., 450 micromhos.	—	—
6SA7-GT	Pentagrid Converter	C3	G-8AD	H	6.3	0.3	Mixer	100	-1.0	100	4.3	13.5	200000	1975	—	—	—
								250	-1.0	100	4.1	13.9	700000	2050	—	—	—
6SB7-Y	Pentagrid Converter	B2	8R	H	6.3	0.3	Mixer	250	-1.0	100	10.0	3.8	1.0	—	—	—	
								250	-2.0	—	—	—	—	—	—	—	—
6SC7	Twin-Triode Amplifier	B2	8S	H	6.3	0.3	Each Unit as Amplifier	100	-1.0	—	—	—	—	—	—	—	
								250	-2.0	—	—	—	—	—	—	—	—
6SF5	High-Mu Triodes	B2	6AB	H	6.3	0.3	Class A Amplifier	90X	Cath. Bias, 8800 ohms.	—	—	—	—	—	—	—	
								300X	Cath. Bias, 3200 ohms.	—	—	—	—	—	—	—	—
6SF5-GT	Diode-Remote-Cutoff Pentode	C2b	G-6AB1	H	6.3	0.3	Class A Amplifier	100	-1.0	100	4.3	13.5	200000	1975	—	—	
								250	-1.0	100	4.1	13.9	700000	2050	—	—	—
6SF7	Remote-Cutoff Pentode	B2	7AZ	H	6.3	0.3	Pentode Unit as Class A Amplifier	100	-1.0	100	3.2	8.2	250000	4100	—	—	
								250	-1.0	125	4.4	11.8	900000	4700	—	—	—
6SG7	Remote-Cutoff Pentode	B2	8BK	H	6.3	0.3	Class A Amplifier	250	-2.5	150	3.4	9.2	1.0	—	—		
								250	-2.5	150	3.4	9.2	1.0	—	—	—	—
6SH7	Sharp-Cutoff Pentode	B2	8BK	H	6.3	0.3	Class A Amplifier	100	-1.0	100	2.1	5.3	350000	4000	—	—	
								250	-1.0	150	4.1	10.8	900000	4900	—	—	—
6SJ7	Sharp-Cutoff Pentodes	B2	8N	H	6.3	0.3	Class A Amplifier	100	-3.0	100	0.9	2.9	700000	1575	—	—	
								250	-3.0	100	0.8	3.0	1.0	—	—	—	—
6SJ7-GT	Remote-Cutoff Pentodes	C3	GT-8N2	H	6.3	0.3	Class A Amplifier	90X	Cath. Bias, 1700 ohms.	—	—	—	—	—	—	—	
								300X	Cath. Bias, 860 ohms.	—	—	—	—	—	—	—	—
6SK7	Remote-Cutoff Pentodes	C3	GT-8N2	H	6.3	0.3	Class A Amplifier	100	-1.0	100	4.0	13.0	120000	2350	—	—	
								250	-1.0	100	2.6	9.2	800000	2000	—	—	—
6SL7-GT	High-Mu Twin Triode	C2b	8BD	H	6.3	0.3	Each Unit as Class A Amplifier	250	-2.0	—	—	—	—	—	—	—	
								250	-2.0	—	—	—	—	—	—	—	—
6SN7-GT	Medium-Mu Twin Triode	C2b	8BD	H	6.3	0.6	Each Unit as Class A Amplifier	90	0	—	—	—	—	—	—	—	
								250	-8.0	—	—	—	—	—	—	—	—
6SN7-GTA	Medium-Mu Twin Triode	C2b	8BD	H	6.3	0.6	Vertical Deflection Amplifier in TV Receivers +	90	0	—	—	—	—	—	—	—	
								250	-8.0	—	—	—	—	—	—	—	—

For other characteristics, refer to Type 6S4.

For other characteristics, refer to Type 6S4T.

Grid Resistor, \*\* 0.5 megohm. (Gain per stage = 43)

Grid Resistor, \*\* 0.5 megohm. (Gain per stage = 63)

Grid Resistor, \*\* 0.5 megohm. (Gain per stage = 93)

Grid Resistor, \*\* 0.5 megohm. (Gain per stage = 167)

Max. DC Plate Volts, 450

Max. DC Cathode M.A., 70

Max. Peak Positive Pulse Plate Volts, 1500

Max. Plate Dissipation: 5 watts either plate; 7.5 watts both plates.

Discontinued types are shown in light face.

Type	Name	Tube Dimensions and Socket Connections		Cathode Type and Rating	Use	Plate Supply Volts	Grid Bias	Screen Supply Volts	Screen Current Ma.	Plate Current Ma.	AC Plate Resistance Ohms	Trans-conductance (Grid-plate) umhos	Amplification Factor	Load for Stated Power Output Ohms	Power Output Watts
		Dimen.	S.C.												
6SN7-GTB	Medium-Mu Twin-Triode	C2b	8BD	H	6-3	0-6	Class A Amplifier	Each Unit as Class A Amplifier	100	-1-0	—	—	—	—	—
6SQ7	Twin-Diode High-Mu Triodes	B2	8Q	H	6-3	0-3	Class A Amplifier	Triode Unit as Class A Amplifier	90 X	Cath. Bias, 11000 ohms.	Grid Resistor, ** 0.5 megohm.	Gain per stage = 40	—	—	—
6SQ7-GT	Duplex-Diode Triode	B2	8Q	H	6-3	0-3	Class A Amplifier	Triode Unit as Class A Amplifier	250	-9-0	—	—	—	—	—
6SR7	Remote-Cutoff Pentode	B2	8N	H	6-3	0-15	Class A Amplifier	Triode Unit as Class A Amplifier	100	-1-0	—	—	—	—	—
6SS7	Duplex-Diode Triode	B2	8Q	H	6-3	0-15	Class A Amplifier	Triode Unit as Class A Amplifier	100	-1-0	—	—	—	—	—
6ST7	Twin-Diode High-Mu Triode	B2	8Q	H	6-3	0-15	Class A Amplifier	Triode Unit as Class A Amplifier	135	-1-0	—	—	—	—	—
6SZ7	Twin-Diode High-Mu Triode	B2	8Q	H	6-3	0-15	Class A Amplifier	Triode Unit as Class A Amplifier	250	-1-0	—	—	—	—	—
6T7-G	Triode-Diode High-Mu Triode	D8	6-7V	H	6-3	0-15	Class A Amplifier	Triode Unit as Class A Amplifier	90 X	Cath. Bias, 8300 ohms.	Grid Resistor, ** 0.5 megohm.	Gain per stage = 30	—	—	—
6T8	Triode-Diode High-Mu Triode	B0a	8E	H	6-3	0-45	Class A Amplifier	Triode Unit as Class A Amplifier	100	-1-0	—	—	—	—	—
6U5	Electron-Ray Tube	D4	6R	H	6-3	0-3	Visual Indicator	Visual Indicator	250	-3-0	—	—	—	—	—
6U7-G	Remote-Cutoff Pentode	D12a	6-7R	H	6-3	0-3	Class A Amplifier	Mixer in Superheterodyne	100	-10-0	—	—	—	—	—
6U8	Triode-Remote-Cutoff Pentode	B1a	9AE	H	6-3	0-45	Class A Amplifier	Triode Unit as Class A Amplifier	250	-10-0	—	—	—	—	—
6V3-A	Half-Wave Rectifier	B1a	3Z	H	6-3	1-75	Damper Service	Television	250	-3-0	—	—	—	—	—

For other characteristics, refer to Type 6SN7-GTA

For other characteristics, refer to Type 6SR7.

For other characteristics, refer to Type 6T7-G

For other characteristics, refer to Type 6U7-G

For other characteristics, refer to Type 6V3-A

6V6	Beam Power Tubes	C2	7AC	H	6-3	0-45	Class A Amplifier	Single-Tube Class A Amplifier	180	-8-5	180	3-0	29-0	50000	3700	5500	2-0
6V6-GT	Duplex-Diode Triode	C2b	G-7AC	H	6-3	0-3	Class A Amplifier	Push-Pull Class AB <sub>1</sub> Amplifier	250	-12-5	250	4-5	45-0	50000	4100	5000	4-5
6V7-G	Half-Wave Rectifier	C2b	4CG	H	6-3	1-2	Vertical Deflection Amplifier in TV Receivers	Triode Unit as Amplifier	315	-13-0	235	2-2	34-0	80000	3750	8500	5-5
6W4-GT	Beam Power Amplifier	C2b	G-7AC	H	6-3	1-2	Class A Amplifier	Class A Amplifier	250	-15-0	250	5-0	70-0	60000	3750	10000	10-0
6W6-GT	Sharp-Cutoff Pentode	D8	6-7R	H	6-3	0-15	Class A Amplifier	Class A Amplifier	285	-19-0	285	4-0	70-0	70000	3600	8000	14-0
6W7-G	Full-Wave Rectifier	B1	6B8	H	6-3	0-6	Class A Amplifier	With Capacitive-Input Filter	250	-3-0	100	0-5	2-0	1-5	1225	—	—
6X4	Full-Wave Rectifiers	C2	6S	H	6-3	0-6	Class A Amplifier	With Inductive-Input Filter	Max. AC Volts per Plate (RMS), 325	Max. DC Output Ma., 70	Max. AC Volts per Plate (RMS), 450	Max. DC Output Ma., 210	Total Effect, Supply Imped. per Plate, 520 ohms	—	—	—	—
6X5	Full-Wave Rectifiers	C2	6S	H	6-3	0-6	Class A Amplifier	With Capacitive-Input Filter	Max. AC Volts per Plate (RMS), 325	Max. DC Output Ma., 70	Max. AC Volts per Plate (RMS), 450	Max. DC Output Ma., 210	Min. Value of Input Choke, 10 henries	—	—	—	—
6X5-GT	Triode-Pentode Converter	B0a	9AK	H	6-3	0-45	Class A Amplifier	Triode Unit as 250-Mc. Oscillator	Max. AC Volts per Plate (RMS), 1250	Max. DC Output Ma., 210	Max. AC Volts per Plate (RMS), 1250	Max. DC Output Ma., 70	Min. Total Effect, Supply Imped. per Plate, 520 ohms	—	—	—	—
6Y5	Full-Wave Rectifier	D5	6J	H	6-3	0-8	Class A Amplifier	Pentode Unit as Mixer	150	Grid Resistor, 2700 ohms	Grid Current, 3-6 ma.	Plate Current, 13 ma.	Power Output (Approx.), 0.5 watt	—	—	—	—
6Y6-G	Beam Power Tube	D10	G-7AC	H	6-3	1-25	Class A Amplifier	Class A Amplifier	150	Grid-No. 2 Volts, 150	Mixer Grid-No. 1 Supply Volts, -3-5	Osc. Volts at Mixer Grid No. 1 (RMS), 2-6	Mixer Grid-No. 1 Resistor, 120000 ohms	—	—	—	—
6Y7-G	Twin-Triode Amplifier	D3	G-6B	H	6-3	0-6	Class B Amplifier	Class B Amplifier	135	-13-5	135	3-5	58-0	9300	7000	2000	3-6
6Z5	Full-Wave Rectifier	D5	6K	H	12-6	0-4	Class A Amplifier	Class A Amplifier	200	-14-0	135	2-2	61-0	18300	7100	2600	6-0
6Z7-G	Twin-Triode Amplifier	D3	G-6B	H	6-3	0-3	Class B Amplifier	Class B Amplifier	135	0	—	—	—	—	—	9000	2-5
6ZY5-G	Full-Wave Rectifier	D3	G-6S1	H	6-3	0-3	Class B Amplifier	Class B Amplifier	180	0	—	—	—	—	—	12000	4-2
7A4	Medium-Mu Triode	B5	5AC2	H	6-3	0-3	Class A Amplifier	Class A Amplifier	Max. AC Volts per Plate (RMS), 325	Max. DC Output Ma., 40	Max. AC Volts per Plate (RMS), 450	Max. DC Output Ma., 120	Min. Total Effect, Supply Imped. per Plate, 225 ohms	—	—	—	—
7A5	Beam Power Tube	C2a	6AA	H	6-3	0-75	Class A Amplifier	Class A Amplifier	Max. AC Volts per Plate (RMS), 450	Max. DC Output Ma., 40	Max. AC Volts per Plate (RMS), 1250	Max. DC Output Ma., 120	Min. Value of Input Choke, 13.5 henries	—	—	—	—

For other characteristics, refer to Type 6J5.

For other characteristics, refer to Type 6V3-A

For other characteristics, refer to Type 6Y5

For other characteristics, refer to Type 6Z5

For other characteristics, refer to Type 6Z7-G

For other characteristics, refer to Type 6ZY5-G

For other characteristics, refer to Type 7A4

For other characteristics, refer to Type 7A5

Discontinued types are shown in light face.

Type	Name	Tube Dimensions and Socket Connections		Cathode Type and Rating		Use	Plate Supply Volts	Grid Bias Volts	Screen Supply Volts	Screen Current mA	Plate Current mA	AC Plate Resistance Ohms	Trans-conductance (Grid-plate) $\mu$ hos	Amplification Factor	Load for Stated Power Output Ohms	Power Output Watts
		Dimen.	S. C.	C. T.	Volts											
7A6	Twin Diode	B5	7AJ	H	6-3	Detector Rectifier	100	-3.0	75	2.7	1.8	650000	150	16	—	—
7A7	Remote-Cutoff Pentode	B5	8V	H	6-3	Class A Amplifier	250	-3.0	100	3.2	3.0	700000	2100	17	—	—
7A8	Octode Converter	B5	8U	H	6-3	Converter	300	Cath. Bias	150	7.0	28.0	300000	9500	16	—	—
7AD7	Power Pentode	C2a	8V	H	6-3	Class A Amplifier	250	-10	—	—	9.0	7600	2100	17	—	—
7AF7	Medium-Mu Twin Triode	B5	8AC	H	6-3	Each Unit as Class A Amplifier	100	Cath. Bias	—	—	10.8	6500	2600	16	—	—
7AG7	Sharp-Cutoff Pentode	B5	8V	H	6-3	Class A Amplifier	250	Cath. Bias	250	2.0	6.0	1 meg.	4200	—	—	—
7AH7	Sharp-Cutoff Pentode	B5	8V	H	6-3	Class A Amplifier	250	Cath. Bias	250	1.9	6.8	1 meg.	3300	—	—	—
7AU7	Medium-Mu Twin Triode	B0a	9A	H	3-5	Each Unit as Class A Amplifier	100	Cath. Bias	—	—	13.0	6300	3500	22	—	—
7B4	High-Mu Triode	B5	5AG1	H	7.0	Class A Amplifier	250	0	—	—	10.5	7950	2200	17.5	—	—
7B5	Power Amplifier Pentode	B5	5AG1	H	6-3	Amplifier	250	-8.5	—	—	—	—	—	—	—	—
7B6	Twin-Diode High-Mu Triode	C2a	6AE	H	6-3	Class A Amplifier	100	-3.0	—	—	—	—	—	—	—	—
7B7	Remote-Cutoff Pentode	B5	8W	H	6-3	Triode Unit as Amplifier	250	-3.0	100	1.7	8.5	750000	1750	—	—	—
7B8	Pentagrid Converter	B5	8X	H	6-3	Class A Amplifier	250	-3.0	100	1.7	8.5	750000	1750	—	—	—
7C5	Beam Power Tube	C2a	6BA	H	6-3	Converter	250	-3.0	100	1.7	8.5	750000	1750	—	—	—
7C6	Twin-Diode High-Mu Triode	B5	8W	H	6-3	Class A Amplifier	250	-1.0	—	—	1.3	100000	1000	100	—	—
7C7	Sharp-Cutoff Pentode	B5	8V	H	6-3	Class A Amplifier	100	-3.0	100	0.4	1.8	1.25	1225	—	—	—
7E6	Twin-Diode Triode	B5	8W	H	6-3	Triode Unit as Amplifier	250	-3.0	100	0.5	2.0	2.05	1300	—	—	—

Maximum AC Voltage per Plate.....150 Volts, RMS  
Maximum DC Output Current per plate.....8 Milliampere

For other characteristics, refer to Type 6SK7.  
Anode-Grid (#2): 250  $\mu$  max. volts, 4.2 ma. Oscillator-Grid (#1) Resistor, Conversion Transcond., 550 micromhos.

For other characteristics, refer to Type 6XQ7.  
Cath. Res., 68 ohms

For other characteristics, refer to Type 6SN7-GT.  
Cath. Res., 250 ohms

For other characteristics, refer to Type 6SQ7.  
Cath. Res., 600 ohms

For other characteristics, refer to Type 6A8.  
Cathode-Bias Resistor, 250 ohms

For other characteristics, refer to Type 6V6-GT.  
Cath. Res., 250 ohms

For other characteristics, refer to Type 6B7.  
Cath. Res., 250 ohms

7E7	Twin-Diode Pentode	B5	8AE	H	6-3	Pentode Unit as Class A Amplifier	100	Cath. Bias	100	2.7	10.0	150000	1600	—	—	—	—
7F7	Twin-Triode Amplifier	B5	8AC	H	6-3	Each Unit as Amplifier	250	100	100	1.6	7.5	700000	1300	—	—	—	—
7F8	Twin-Triode Amplifier	B5b	8BW	H	6-3	Class A Amplifier	250	Cathode-Bias Res., 500 ohms	6.0	6.0	—	3300	48	—	—	—	—
7G7	Sharp-Cutoff Pentode	B5	8V	H	6-3	Class A Amplifier	250	-2.0	100	2.0	6.0	800000	4500	—	—	—	—
7H7	Sharp-Cutoff Pentode	B5	8V	H	6-3	Class A Amplifier	250	100	2.6	7.5	350000	4000	—	—	—	—	—
7J7	Triode-Heptode Converter	B5	8BL	H	6-3	Triode Unit as Oscillator	250	Triode-Grid Resistor, 50000 ohms	3.2	3.0	—	4000	—	—	—	—	—
7K7	Twin-Diode High-Mu Triode	B5	8BF	H	6-3	Triode Unit as Class A Amplifier	250	-3.0	100	2.6	1.5	500000	1600	70	—	—	—
7L7	RF Amplifier Pentode	B5	8V	H	6-3	Class A Amplifier	100	-3.0	100	2.8	1.4	1.35	Conversion Transcond., 280 $\mu$ hos.	—	—	—	—
7N7	Twin-Triode Amplifier	C2a	8AC	H	6-3	Each Unit as Class A Amplifier	250	-2	—	—	2.3	44000	3000	—	—	—	—
7Q7	Pentagrid Converter	B5	8AL	H	6-3	Converter	100	-1.0	100	2.4	5.5	100000	3000	—	—	—	—
7R7	Twin-Diode Pentode	B5	8AE	H	6-3	Class A Amplifier	250	-1.5	100	1.5	4.5	1.05	3100	—	—	—	—
7S7	Triode-Heptode Converter	B5	8BL	H	6-3	Triode Unit as Mixer	100	-2.0	100	3.0	1.8	1.255	Conversion Transcond., 525 $\mu$ hos.	—	—	—	—
7V7	RF Amplifier Pentode	B5	8V	H	6-3	Class A Amplifier	300	—	150	3.9	10.0	300000	5800	—	—	—	—
7W7	RF Amplifier Pentode	B5	8BJ	H	6-3	Class A Amplifier	100	—	—	—	—	—	—	—	—	—	—
7X7	Twin Diode-High-Mu Triode	C2a	8BZ	H	6-3	Triode Unit as Class A Amplifier	250	-1.0	—	—	1.2	85000	1000	85	—	—	—
7Y4	Full-Wave Rectifier	B5	6AB	H	6-3	With Capacitive Input Filter	—	—	—	—	1.9	67000	1500	100	—	—	—
7Z4	Full-Wave Rectifier	C2a	5AB	H	6-3	With Inductive Input Filter	—	—	—	—	—	—	—	—	—	—	—
10@	Power Amplifier Triode	E3	4D	F	7-5	Class A Amplifier	350	-32.0	—	—	16.0	5150	1550	8.0	11000	0.9	
							425	-40.0	—	—	18.0	5000	1600	8.0	10200	1.6	

For other characteristics, refer to Type 6SL7-GT.  
Cath. Res., 800 ohms  
Cath. Res., 330 ohms

For other characteristics, refer to Type 6SN7-GT.  
Grid #1 Resistor, 20000 ohms.  
Conversion Transcond., 550  $\mu$ hos.

For other characteristics, refer to Type 7V7.  
Max. AC Volts per Plate (RMS), 325  
Max. DC Output Ma., 70  
Max. Peak Inverse Volts, 1250  
Max. Peak Plate Ma., 180  
Max. AC Volts per Plate (RMS), 450  
Max. DC Output Ma., 70  
Max. Peak Inverse Volts, 1250  
Max. Peak Plate Ma., 180  
Max. AC Volts per Plate (RMS), 325  
Max. DC Output Ma., 100  
Max. Peak Inverse Volts, 1250  
Max. Peak Plate Ma., 300  
Max. AC Volts per Plate (RMS), 450  
Max. DC Output Ma., 100  
Max. Peak Inverse Volts, 1250  
Max. Peak Plate Ma., 300  
Max. AC Volts per Plate (RMS), 450  
Max. DC Output Ma., 300  
Max. Peak Inverse Volts, 1250  
Max. Peak Plate Ma., 300  
Choke, 6 henries

For other characteristics, refer to Type 7V7.  
Max. AC Volts per Plate (RMS), 325  
Max. DC Output Ma., 70  
Max. Peak Inverse Volts, 1250  
Max. Peak Plate Ma., 180  
Max. AC Volts per Plate (RMS), 450  
Max. DC Output Ma., 100  
Max. Peak Inverse Volts, 1250  
Max. Peak Plate Ma., 300  
Max. AC Volts per Plate (RMS), 450  
Max. DC Output Ma., 100  
Max. Peak Inverse Volts, 1250  
Max. Peak Plate Ma., 300  
Choke, 6 henries

Discontinued types are shown in light face.

Type	Name	Dimensions and Socket Connections		Cathode Type and Rating		Use	Plate Supply Volts	Grid Bias Volts	Screen Supply Volts	Screen Current mA	Plate Current mA	AC Plate Resistance Ohms	Trans-conductance (Grid-plate) umhos	Amplification Factor	Load for Stated Power Output Ohms	Power Output Watts
		Dimen.	S. C.	C. T.	Volts											
11A12	Detector* Amplifier Triode	D2a	4F	D.C.	1-1	0.25	90	-4.5	—	—	2.5	15500	425	6.6	—	—
		D2a	4D	F	—	—	135	-10.5	—	—	3.0	15000	440	6.6	—	—
12A5	Power Amplifier Pentode	D5	7F	H	6.3	0.6	100	-15.0	100	3.0	17.0	50000	1700	—	4500	0.8
		D5	—	H	12.6	0.3	180	-25.0	180	8.0	45.0	35000	2400	—	3300	3.4
12A7	Rectifier-Pentode	D0	7K	H	12.6	0.3	135	-13.5	135	2.5	9.0	102000	975	—	13500	0.55
		D0	—	H	—	—	—	—	—	—	—	—	—	—	—	—
12A8-GT	Pentagrid Converter B	C3	GT-8A	H	12.6	0.15	Maximum AC Plate Voltage..... 125 Volts, RMS Maximum DC Output Current..... 30 Milliamperes									
		For other characteristics, refer to Type 6A8.														
12AB5	Beam Power Tube	B3	90K	H	10.0	0.225	250	Cath. Bias	200	1.6	33.5	Cath. Bias Res., 270 ohms	6000	—	6000	3.3
		B3	—	H	15.9	approx.	250	-15.0	250	5.0	70.0	60000	3750	—	10000	10.0
12AH7-GT	Twin Triode	00a	8BE	H	12.6	0.15	100	-3.6	—	—	3.7	10300	1550	16	—	—
		A1	6BT	H	12.6	0.15	180	-6.5	—	—	7.6	8400	1900	16	—	—
12AL5	Twin-Diode Tube	B1	7BZ	H	12.6	0.225	For other characteristics, refer to Type 6AL5.									
		B1	—	H	—	—	—	—	—	—	—	—	—	—	—	—
12AQ5	Beam Power Tube	B0	7BT	H	12.6	0.15	For other characteristics, refer to Type 6V6.									
		B0	—	H	—	—	—	—	—	—	—	—	—	—	—	—
12AT6	Twin-Diode High-Mu Triode	B0	7BT	H	12.6	0.15	For other characteristics, refer to Type 6AT6.									
		B0a	9A	H	6.3	0.3	100	Cath. Res., 270 ohms	—	—	3.7	15000	4000	60	—	—
12AT7	Twin Triode	B0a	9A	H	12.6	0.15	250	Cath. Res., 200 ohms	10.0	10.900	5500	60	—	—	—	—
		B0	7BK	H	12.6	0.15	100	0	—	—	11.8	6500	3100	20	—	—
12AU6	Sharp-Cutoff Pentode	B0	7BK	H	12.6	0.15	250	-8.5	—	—	10.5	7700	2200	17.5	—	—
		B0a	9A	H	6.3	0.3	100	0	—	—	11.8	6500	3100	20	—	—
12AU7	Twin-Triode Amplifier	B0	7BT	H	12.6	0.15	For other characteristics, refer to Type 6AU6.									
		B0	—	H	—	—	—	—	—	—	—	—	—	—	—	—
12AV6	Twin-Diode High-Mu Triode	B0	7BT	H	12.6	0.15	For other characteristics, refer to Type 6AV6.									
		B0a	9A	H	6.3	0.45	150	Cathode Bias Res., 56 ohms	18	48000	8500	41	Cutoff Volts, -12	—	—	
12AV7	Medium-Mu Twin Triode	B0a	9A	H	12.6	0.225	For other characteristics, refer to Type 6AV6.									
		B0	7CM	H	12.6	0.15	150	Cathode Bias Res., 56 ohms	18	48000	8500	41	Cutoff Volts, -12	—	—	
12AW6	Sharp-Cutoff Pentode	B0	7CM	H	12.6	0.15	For other characteristics, refer to Type 6AW6.									
		B0	—	H	—	—	—	—	—	—	—	—	—	—	—	—

Type	Name	Dimensions and Socket Connections	Cathode Type and Rating	Use	Plate Supply Volts	Grid Bias Volts	Screen Supply Volts	Screen Current mA	Plate Current mA	AC Plate Resistance Ohms	Trans-conductance (Grid-plate) umhos	Amplification Factor	Load for Stated Power Output Ohms	Power Output Watts		
12AX4-GT	Half-Wave Rectifier	C2b	20	H	12.6	0.6	250	-1.0	—	—	80000	1250	100	—	—	
12AX4-GTA	Half-Wave Rectifier	C2b	20	H	12.6	0.6	250	-2.0	—	—	1.2	62500	1600	100	—	—
		B0a	9A	H	6.3	0.15	250	-2.0	—	—	1.5	62500	1600	100	—	—
12AX7	High-Mu Twin Triode	B0a	9A	H	6.3	0.3	100	Cath. Bias Res., 270 ohms	3.7	15000	4000	60	—	—	—	
		B0a	9A	H	12.6	0.225	250	Cath. Bias Res., 200 ohms	10.0	10900	5500	60	—	—		
12AZ7	High-Mu Twin Triode	B3	33	H	6.3	0.6	Max. DC Plate Volts, 550 Max. Peak Positive-Pulse Plate Volts, 1000 (Abs.) Max. Peak Negative-Pulse Grid Volts, 250 Max. Peak Cathode M. I. 105 Max. Peak Dissipation, 5.5 Watts									
		B3	—	H	12.6	0.3	90	0	—	—	2.8	37000	2400	90	—	—
12B4-A	Triode-Pentode	C10a	8T	H	12.6	0.3	90	-3.0	90	2.0	7.0	200000	1800	—	—	—
		B0	7BK	H	12.6	0.15	90	-3.0	90	2.0	7.0	200000	1800	—	—	—
12BA6	Remote-Cutoff Pentode	B3	8CT	H	12.6	0.15	For other characteristics, refer to Type 6BA6.									
		B0	7C0	H	12.6	0.15	For other characteristics, refer to Type 6BA6.									
12BA7	Pentagrid Converter A	B3	8CT	H	12.6	0.15	For other characteristics, refer to Type 6BA7.									
		B0	7C0	H	12.6	0.15	For other characteristics, refer to Type 6BA7.									
12BD6	Remote-Cutoff Pentode	B0	7CH	H	12.6	0.15	For other characteristics, refer to Type 6BD6.									
		B0	7BT	H	12.6	0.15	For other characteristics, refer to Type 6BD6.									
12BF6	Twin-Diode Triode	B3	9A	H	6.3	0.6	250	-9.0	—	—	9.5	8500	1900	16	Power Output, 300 milliwatts	
		B3	9A	H	12.6	0.3	250	-9.0	—	—	9.5	8500	1900	16	Power Output, 300 milliwatts	
12BH7	Medium-Mu Twin Triode	B3	9A	H	6.3	0.6	Absolute Max. Peak Positive-Pulse Plate Volts, 1500 Max. Plate Dissipation (Each Unit), 3.5 watts									
		B3	9A	H	12.6	0.3	For other characteristics, refer to Type 12BH7.									
12BH7-A	Medium-Mu Twin-Triode	C11	6AM	H	12.6	0.6	Max. DC Plate Volts, 600 Max. DC Cathode Max., 112.5									
		B3	8BF	H	6.3	0.6	250	Cath. Bias	150	6	25	110000	12000	Cath. Res., 68 ohms	—	
12B06-GTB/12C06	Beam Power Tube	B3	8BF	H	12.6	0.3	For other characteristics, refer to Type 12BY7									
		B3	8BF	H	6.3	0.6	250	-3.0	125	2.3	10.0	600000	1325	—	—	—
12BY7-A	Sharp-Cutoff Pentode	B3	8BF	H	12.6	0.3	For other characteristics, refer to Type 12BY7									
		B3	8BF	H	6.3	0.6	250	-3.0	125	2.3	10.0	600000	1325	—	—	—
12C68	Twin-Diode Pentode	C1	8E	H	12.6	0.15	90 * Cath. Bias, 3500 ohms. Screen Resistor = 1.1 meg. Grid Resistor. ** Gain per stage = 55 300 * Cath. Bias, 1600 ohms. Screen Resistor = 1.2 meg. / 0.5 megohm. / Gain per stage = 79									
		C1	—	H	—	—	—	—	—	—	—	—	—	—	—	—

Discontinued types are shown in light face.

Type	Name	Tube Dimensions and Socket Connections		Cathode Type and Rating		Use	Plate Supply Volts	Grid Bias Volts	Screen Supply Volts	Screen Current Ma.	Plate Current Ma.	AC Plate Resistance Ohms	Trans-conductance (Grid-plate) umhos	Amplification Factor	Load for Stated Power Output Ohms	Power Output Watts
		Dimm.	S.C.	C.T.	Volts											
12CA5	Beam Power Tube	B1	7C7	H	12-6	0.6	110	4	110	3.5	32	16000	8100	—	3500	1.1
12FS-GT	High-Mu Triode	C2b	G-5M1	H	12-6	0.15	125	—	125	4.0	37	15000	9200	—	4500	1.5
12H6	Twin-Diode	A1a	7Q	H	12-6	0.15	—	—	—	4.0	32	16000	8100	—	—	—
12J5-GT	Medium-Mu Triode	C3	GT-6Q1	H	12-6	0.15	—	—	—	4.0	37	15000	9200	—	—	—
12J7-GT	Sharp-Cutoff Pentode	C3	GT-7P2	H	12-6	0.15	—	—	—	4.0	37	15000	9200	—	—	—
12K7-GT	Remote-Cutoff Pentode	C3	GT-7P2	H	12-6	0.15	—	—	—	4.0	37	15000	9200	—	—	—
12K8	Triode-Hexode Converter	C1	8K	H	12-6	0.15	—	—	—	4.0	37	15000	9200	—	—	—
12L6-GT	Beam Power Tube	C2b	G-7AC1	H	12-6	0.6	110	—	110	4.0	49	13000	8000	—	2000	2.1
12Q7-GT	Twin-Diode High-Mu Triode	C3	GT-7M2	H	12-6	0.15	—	—	—	2.2	46	28000	8000	—	4000	3.8
12S8-GT	High-Mu Triode	C3a	8CB	H	12-6	0.15	—	—	—	—	—	—	—	—	—	—
12SA7	Pentagrid Converter	B2	8R	H	12-6	0.15	100	—	—	—	—	110000	900	100	—	—
12SA7-GT	Pentagrid Converter	C2b	G-8AD	H	12-6	0.15	250	—	—	—	—	91000	1100	100	—	—
12SC7	Twin-Triode Amplifier	B2	8S	H	12-6	0.15	—	—	—	—	—	—	—	—	—	—
12SF5	High-Mu Triode	B2	8AB	H	12-6	0.15	—	—	—	—	—	—	—	—	—	—
12SF5-GT	High-Mu Triode	C2b	G-8AB1	H	12-6	0.15	—	—	—	—	—	—	—	—	—	—
12SF7	Diode-Pentode	B2	7AZ	H	12-6	0.15	—	—	—	—	—	—	—	—	—	—
12SG7	Remote-Cutoff Pentode	B2	8BK	H	12-6	0.15	—	—	—	—	—	—	—	—	—	—
12SH7	Sharp-Cutoff Pentode	B2	8BK	H	12-6	0.15	—	—	—	—	—	—	—	—	—	—
12SJ7	Sharp-Cutoff Pentodes	B2	8N	H	12-6	0.15	—	—	—	—	—	—	—	—	—	—
12SJ7-GT	Pentodes	C3	GT-8N2	H	12-6	0.15	—	—	—	—	—	—	—	—	—	—

6V6	Beam Power Tubes	C2	7AC	H	6-3	0.45	180	—	180	3.0	29.0	50000	3700	—	5500	2.0
6V6-GT	Duplex-Diode Triode	C2b	G-7AC1	H	6-3	0.45	250	—	250	4.5	45.0	50000	4100	—	5000	4.5
6V7-G	Half-Wave Rectifier	D8	G-7V1	H	6-3	0.3	250	—	225	2.2	34.0	80000	3750	—	8500	5.5
6W4-GT	Beam Power Amplifier	C2b	4CG	H	6-3	1.2	250	—	250	5.0	70.0	60000	3750	—	10000	10.0
6W6-GT	Beam Power Amplifier	C2b	G-7AC1	H	6-3	1.2	285	—	285	4.0	70.0	70000	3600	—	8000	14.0
6W7-G	Sharp-Cutoff Pentode	D9	G-7R1	H	6-3	0.15	250	—	100	0.5	2.0	1.5	1225	—	—	—
6X4	Full-Wave Rectifier	B1	59S	H	6-3	0.6	—	—	—	—	—	—	—	—	—	—
6X5	Full-Wave Rectifiers	C2	6S	H	6-3	0.6	—	—	—	—	—	—	—	—	—	—
6X5-GT	Triode-Pentode Converter	C2b	G-6S1	H	6-3	0.6	—	—	—	—	—	—	—	—	—	—
6X8	Triode-Pentode Converter	B8a	9AK	H	6-3	0.45	150	—	150	—	—	—	—	—	—	—
6Y5	Full-Wave Rectifier	D5	U	H	6-3	0.8	—	—	—	—	—	—	—	—	—	—
6Y6-G	Beam Power Tube	D10	G-7AC1	H	6-3	1.25	135	—	135	3.5	38.0	9300	7000	—	2000	3.6
6Y7-G	Twin-Triode Amplifier	D3	G-6R1	H	6-3	0.6	—	—	—	—	—	—	—	—	—	—
6Z5	Full-Wave Rectifier	D5	6K	H	6-3	0.8	—	—	—	—	—	—	—	—	—	—
6Z7-G	Twin-Triode Amplifier	D3	G-6R1	H	6-3	0.3	135	—	135	2.2	61.6	18300	7100	—	2600	6.0
6ZY5-G	Full-Wave Rectifier	D3	G-6S1	H	6-3	0.3	135	—	135	2.2	61.6	18300	7100	—	2600	6.0
7A4	Medium-Mu Triode	B5	5AC2	H	6-3	0.3	135	—	135	2.2	61.6	18300	7100	—	2600	6.0
7A5	Beam Power Tube	C2a	6AA	H	6-3	0.75	110	—	110	3.0	40.0	10000	5800	—	2500	1.5
							125	—	125	3.3	44.0	17000	6000	—	2700	2.2

Discontinued types are shown in light face.

Type	Name	Tube Dimensions and Socket Connections	Cathode Type and Rating	Use	Plate Supply Volts	Grid Bias Ma	Screen Supply Volts	Screen Current Ma	Plate Current Ma	AC Plate Resistance Ohms	Trans-conductance (Grid-plate) mhos	Amplification Factor	Load for Stated Power Output Ohms	Power
14F8	Medium-Mu Twin Triode	Bbb	H 12.6	Class A Amplifier	250	—	500 ohms	6.0	—	—	3300	48	—	—
14H7	Remote-Cutoff Pentode	B5	H 12.6	Class A Amplifier	—	—	—	—	—	—	—	—	—	—
14J7	Triode-Heptode Converter	B5	H 12.6	Converter	—	—	—	—	—	—	—	—	—	—
14N7	Twin-Triode Amplifier	G2a	H 12.6	Each Unit as Class A Amplifier	—	—	—	—	—	—	—	—	—	—
14Q7	Pentagrid Converter	B5	H 12.6	Converter	—	—	—	—	—	—	—	—	—	—
14R7	Twin-Diode Pentode	B5	H 12.6	Pentode Unit as Class A Amplifier	67.5	1.5	67.5	0.3	1.85	630000	710	—	—	—
15	RF Amplifier Pentode	D3	H 2.0	Class A Amplifier	135	1.5	67.5	0.3	1.85	800000	750	—	—	—
19	Twin-Triode Amplifier	D5	D.C. F 2.0	Amplifier	—	—	—	—	—	—	—	—	—	—
19BG6-G	Beam Power Tube	F1	H 18.9	Horizontal Deflection Amplifier in TV Receivers	Max. DC Plate Volts, 700 Max. DC Plate Current, 100 ma.	—	—	—	—	—	—	—	—	Max. Peak Positive-Pulse Plate Volts, 6000 Max. Plate Dissipation, 20 watts
19J6	Medium-Mu Twin Triode	B0	H 18.9	Each Unit as Class A Amplifier	100	—	50% ohms	8.5	7100	5300	38	—	—	—
19T8	Triple-Diode High-Mu Triode	B0a	H 18.9	Triode Unit as Class A Amplifier	—	—	—	—	—	—	—	—	—	—
19X8	Triode-Pentode Converter	B0a	H 18.9	Class A Amplifier	—	—	—	—	—	—	—	—	—	—
20	Power Amplifier Triode	D1	D.C. F 3.3	Class A Amplifier	90	16.5	—	—	3.0	8000	415	3.3	9600	0.045
22	RF Amplifier Tetrode	E1	D.C. F 3.3	Screen-Grid RF Amplifier	135	1.5	45	0.6*	6.5	6300	525	3.3	6500	0.110
24-A	RF Amplifier Tetrode	E1	H 2.5	Dynamic-Comp. Amp. With Type 6AE5-GT Driver	135	1.5	67.5	1.3*	3.7	325000	500	—	—	—
25A6	Power Amplifier Pentode	G2	H 25.0	RF Amplifier	180	3.0	90	1.7*	4.0	400000	1000	—	—	—
				Bias Detector	250	3.0	90	1.7*	4.0	600000	1050	—	—	—
				Class A Amplifier	250	5.0	20 to approx. 45	—	—	—	—	—	—	Plate current to be adjusted to 0.1 milliampere with no signal.
				Class A Amplifier	95	15.0	95	4.0	20.0	45000	2000	—	4500	0.9
				Class A Amplifier	160	18.0	120	6.5	33.0	42000	2375	—	5000	2.2

Type	Name	Tube Dimensions and Socket Connections	Cathode Type and Rating	Use	Plate Supply Volts	Grid Bias Ma	Screen Supply Volts	Screen Current Ma	Plate Current Ma	AC Plate Resistance Ohms	Trans-conductance (Grid-plate) mhos	Amplification Factor	Load for Stated Power Output Ohms	Power
25A6-GT	Power Amplifier Pentode	G3	H 25.0	Class A Amplifier	100	15.0	100	4.0	20.5	50000	1800	—	4500	0.77
25A7-GT	Rectifier Pentode	G3	H 25.0	Pentode Unit as Half-Wave Rectifier	Max. AC Plate Volts (RMS), 117 Max. Peak Inverse Volts, 350	—	—	—	—	—	—	—	—	4500
25AC5-GT	High-Mu Power Amplifier Triode	G3	H 25.0	Dynamic-Comp. Amp. With Type 6AE5-GT Driver	180	—	—	—	4.0	—	—	—	4800	6.0
25B5	Direct-Comp. Power Amplifier Pentode	D0a	H 25.0	Amplifier	110	—	—	—	—	—	—	—	2000	2.0
25B6-G	Power Amplifier Pentode	D10	H 25.0	Class A Amplifier	105	16.0	105	2.0	48.0	15500	4800	—	1700	2.4
25B8-GT	Triode-Pentode	G3	H 25.0	Triode Unit as Class A Amplifier	200	23.0	135	1.8	62.0	18000	5000	—	2500	7.1
25BQ6-GT	Beam Power Tube	G11	H 25.0	Horizontal Deflection Amplifier in TV Receivers	100	1.0	—	—	0.6	75000	1500	112	—	—
25BQ6-GTB/ 25CU6	Beam Power Tube	G11	H 25.0	Horizontal Deflection Amplifier in TV Receivers	100	3.0	100	2.0	7.6	185000	2000	—	—	—
25C6-G	Beam Power Tube	D10	H 25.0	Class A Amplifier	Max. DC Plate Volts, 600 Max. DC Cathode Ma., 112.5	—	—	—	—	—	—	—	—	Absolute Max. Peak Positive-Pulse Plate Volts, 6000 Max. Plate Dissipation, 11 Watts
25CA5	Beam Power Tube	B1	H 25.0	Class A Amplifier	110	4.0	110	3.5	32	16000	8100	—	3500	1.1
25CD6-GA	Beam Power Tube	F1	H 25	Horizontal Deflection Amplifier in TV Receivers	125	4.5	125	4.0	37	15000	9200	—	4500	1.5
25L6	Beam Power Tube	G2	H 25.0	Amplifier	Max. DC Plate Volts, 700 Max. DC Plate Ma., 170	—	—	—	—	—	—	—	—	Max. Peak Positive-Pulse Plate Volts, 6000 Max. Plate Dissipation, 15 Watts
25L6-GT	Beam Power Tube	G2b	H 25.0	Amplifier	110	7.5	110	4.0	49.0	13000	9000	—	2000	2.1
25N6-G	Direct-Comp. Power Amplifier	D9	H 25.0	Amplifier	200	8.0	110	2.0	50.0	30000	9500	—	3000	4.3
25W4-GT	Half-Wave Rectifier	G2b	H 25.0	Class A Amplifier	Output Triode: Plate Volts, 180; Plate Ma., 46; Load, 4000 ohms. Triode: Plate Volts, 100; Grid Volts, 0; A-F Signal Volts (Peak), 29.7; Plate Ma., 5.8.	—	—	—	—	—	—	—	—	3.8
25Y5	Rectifier-Doubler	D5	H 25.0	With Capacitive-Input Filter	Max. AC Plate Volts (RMS), 350 Max. Peak Inverse Volts, 2000	—	—	—	—	—	—	—	—	Min. Total Effect. Supply Imped. per Plate, 145 ohms
25Z5	Rectifier-Doubler	D5	H 25.0	Rectifier-Doubler	Max. AC Volts per Plate (RMS), 235 Max. DC Output Ma. per Plate, 75	—	—	—	—	—	—	—	—	Min. Total Effective Plate-Supply Impedance per Plate, 0 ohms

Discontinued types are shown in light face.

Type	Name	Tube Dimensions and Socket Connections		Cathode Type and Rating		Use	Plate Supply Volts	Grid Bias Volts	Screen Supply Volts	Screen Current mA	Plate Current mA	AC Plate Resistance Ohms	Trans-conductance (Grid-plate) umhos	Amplification Factor	Load for Stated Power Output Ohms	Power Output Watts
		Dimen.	S.C.	C.T.	Volts											
25Z6	Vacuum Rectifier-Doublers	C2	7Q	H	25-0	0.3										
		C2b	6-7Q													
26	Amplifier Triode	D12	4D	F	1.5	1.05	90	-7.0	—	—	2.9	8900	935	8.3	—	—
27	Detector* Amplifier Triode	D5	5A1	H	2.5	1.75	135	-14.5	—	—	6.2	7300	1150	8.3	—	—
							250	-21.0	—	—	4.5	9000	1000	9.0	—	—
30	Medium-Mu Triode	D5	4D	D.C. F	2.0	0.06	180	approx.	—	—	—	—	—	—	—	—
							90	-5.0	90	3.0	38.0	15000	6000	—	2600	0.8
31	Power Amplifier Triode	D5	4D	D.C. F	2.0	0.13	180	-30.0	—	—	12.5	3600	1050	3.8	7000	0.185
							180	-3.0	67.5	0.4	1.7	950000	600	—	5700	0.375
32	RF Amplifier Tetrode	E1	4K	D.C. F	2.0	0.06	180	-3.0	67.5	0.4	1.7	1.0+1.5	650	—	—	—
							180	approx.	67.5	—	—	—	—	—	—	—
32L7-GT	Rectifier-Beam Power Amplifier	G3	8Z	H	32.5	0.3	90	-7.0	90	2.0	27.0	17000	4800	—	2600	0.8
							200	approx.	90	2.0	27.0	17000	4800	—	2600	1.0
33	Power Amplifier Pentode	D12	5K	D.C. F	2.0	0.26	180	-18.0	180	5.0	22.0	55000	1700	—	6000	1.5
							135	-3.0	67.5	1.0	2.8	600000	600	—	—	—
34	Remote-Cutoff Pentode	E1	4M	D.C. F	2.0	0.06	180	-3.0	67.5	1.0	2.8	1.0	620	—	—	—
							180	-3.0	67.5	0.4	1.7	300000	1020	—	—	—
35	Remote-Cutoff Tetrode	E1	5E	H	2.5	1.75	250	-3.0	90	2.5*	6.5	400000	1050	—	—	—
							250	min.	90	2.5*	6.5	400000	1050	—	—	—
35A5	Beam Power Tube	G2a	6AA	H	35.0	0.15	180	-18.0	180	5.0	22.0	55000	1700	—	6000	1.5
							135	-3.0	67.5	1.0	2.8	600000	600	—	—	—
35B5	Beam Power Tube	B1	7BZ	H	35.0	0.15	180	-18.0	180	5.0	22.0	55000	1700	—	6000	1.5
							135	-3.0	67.5	1.0	2.8	600000	600	—	—	—
35C5	Beam Power Tube	B1	7CV	H	35.0	0.15	180	-18.0	180	5.0	22.0	55000	1700	—	6000	1.5
							135	-3.0	67.5	1.0	2.8	600000	600	—	—	—
35L6-GT	Beam Power Tube	C2b	G-7AC1	H	35.0	0.15	200	-7.5	110	3.0	40.0	13000	5800	—	2500	1.5
							110	-7.5	110	3.0	40.0	13000	5800	—	2500	1.5

Type	Name	Tube Dimensions and Socket Connections		Cathode Type and Rating		Use	Plate Supply Volts	Grid Bias Volts	Screen Supply Volts	Screen Current mA	Plate Current mA	AC Plate Resistance Ohms	Trans-conductance (Grid-plate) umhos	Amplification Factor	Load for Stated Power Output Ohms	Power Output Watts
		Dimen.	S.C.	C.T.	Volts											
35W4	Half-Wave Rectifier Heater Tap for Pilot	B1	5BQ	H	35.0	0.15	250	-28.0	—	—	—	—	—	—	—	—
							100	-1.5	55	1.8	550000	850	—	—	—	—
35Y4	Half-Wave Rectifier Heater Tap for Pilot	C2a	5AL	H	35.0	0.15	250	-28.0	—	—	—	—	—	—	—	—
							100	-1.5	55	1.8	550000	850	—	—	—	—
35Z3	Half-Wave Rectifier	C2a	4Z	H	35.0	0.15	250	-28.0	—	—	—	—	—	—	—	—
							100	-1.5	55	1.8	550000	850	—	—	—	—
35Z4-GT	Half-Wave Rectifier	C2b	G-5AA	H	35.0	0.15	250	-28.0	—	—	—	—	—	—	—	—
							100	-1.5	55	1.8	550000	850	—	—	—	—
35Z5-GT	Half-Wave Rectifier Heater Tap for Pilot	C2b	G-6AD	H	35.0	0.15	250	-28.0	—	—	—	—	—	—	—	—
							100	-1.5	55	1.8	550000	850	—	—	—	—
36	RF Amplifier Tetrode	D9	6E	H	6.3	0.3	250	-28.0	—	—	—	—	—	—	—	—
							100	-1.5	55	1.8	550000	850	—	—	—	—
37	Detector* Amplifier Triode	D5	5A1	H	6.3	0.3	250	-28.0	—	—	—	—	—	—	—	—
							100	-1.5	55	1.8	550000	850	—	—	—	—
38	Power Amplifier Pentode	D9	5F	H	6.3	0.3	250	-28.0	—	—	—	—	—	—	—	—
							100	-1.5	55	1.8	550000	850	—	—	—	—
39/44	Remote-Cutoff Pentode	D9	5F	H	6.3	0.3	250	-28.0	—	—	—	—	—	—	—	—
							100	-1.5	55	1.8	550000	850	—	—	—	—
40	Medium-Mu Triode	D12	4D	D.C. F	5.0	0.25	250	-28.0	—	—	—	—	—	—	—	—
							100	-1.5	55	1.8	550000	850	—	—	—	—
41	Power Amplifier Pentode	D5	6B	H	6.3	0.4	250	-28.0	—	—	—	—	—	—	—	—
							100	-1.5	55	1.8	550000	850	—	—	—	—
42	Power Amplifier Pentode	D12	6B	H	6.3	0.7	250	-28.0	—	—	—	—	—	—	—	—
							100	-1.5	55	1.8	550000	850	—	—	—	—
43	Power Amplifier Pentode	D12	6B	H	25.0	0.3	250	-28.0	—	—	—	—	—	—	—	—
							100	-1.5	55	1.8	550000	850	—	—	—	—
45	Power Amplifier Triode	D12	4D	F	2.5	1.5	250	-28.0	—	—	—	—	—	—	—	—
							100	-1.5	55	1.8	550000	850	—	—	—	—
45Z3	Half-Wave Rectifier	B0	5AM	H	45.0	0.075	250	-28.0	—	—	—	—	—	—	—	—
							100	-1.5	55	1.8	550000	850	—	—	—	—
45Z5-GT	Half-Wave Rectifier Heater Tap for Pilot	C2b	G-6AD	H	45.0	0.15	250	-28.0	—	—	—	—	—	—	—	—
							100	-1.5	55	1.8	550000	850	—	—	—	—
46	Dual-Grid Power Amplifier	E3	5C	F	2.5	1.75	250	-28.0	—	—	—	—	—	—	—	—
							100	-1.5	55	1.8	550000	850	—	—	—	—

Discontinued types are shown in light face.



Type	Name	Dimensions and Socket Connections		Cathode Type and Rating		Use	Plate Supply Volts	Grid Bias Volts	Screen Supply Volts	Screen Current Ma.	Plate Current Ma.	AC Plate Resistance Ohms	Trans-conductance (Grid-Plate) umhos	Amplification Factor	Load for Stated Output Ohms	Power Output Watts
		Dimen.	S. C.	C. T.	Volts											
47	Power Amplifier Pentode	E3	8B	F	2.5	1.75	250	-16.5	250	6.0	31.0	60000	2500	—	7000	2.7
48	Power Amplifier Tetrode	E3	6A	D.C. H	30.0	0.4	Tetrode	96	9.0	9.0	52.0	—	3800	—	1500	2.0
							Class A Amplifier	125	100	5.5	—	3900	—	1500	2.5	
49	Dual-Grid Power Amplifier Triode	D12	8C	D.C. F	2.0	0.12	Class A Amplifier	125	—	—	100.0	—	—	—	3000	5.0†
							Class B Amplifier	135	—	—	—	—	—	—	1125	4.7
50	Power Amplifier Triode	F1a	4D	F	7.5	1.25	Class A Amplifier	300	—	—	—	—	—	—	4000	1.6
							Class B Amplifier	400	—	—	—	—	—	—	55.0	1800
50A5	Beam Power Tube	C2a	6AA	H	50.0	0.15	Class A Amplifier	450	—	—	—	—	—	—	4350	4.6
							Class B Amplifier	180	—	—	—	—	—	—	4.0	—
50B5	Beam Power Tube	B1	7B2	H	50.0	0.15	—	—	—	—	—	—	—	—	—	—
50C5	Beam Power Tube	B1	7C5	H	50.0	0.15	—	—	—	—	—	—	—	—	—	—
50C6-G	Beam Power Tube	D10	7AC	H	50.0	0.15	—	—	—	—	—	—	—	—	—	—
50L6-GT	Beam Power Tube	C2b	G-7AC1	H	50.0	0.15	Class A Amplifier	200	—	—	—	—	—	—	—	—
							Class B Amplifier	200	—	—	—	—	—	—	—	—
50X6	Rectifier-Doubler	C2a	7AJ	H	50.0	0.15	Rectifier-Doubler	—	—	—	—	—	—	—	—	—
							Half-Wave Rectifier	180	—	—	—	—	—	—	—	—
50Y6-GT	Rectifier-Doubler	C2b	G-7Q1	H	50.0	0.15	Rectifier-Doubler	—	—	—	—	—	—	—	—	—
							Half-Wave Rectifier	180	—	—	—	—	—	—	—	—
50Y7-GT	Rectifier-Doubler Heater Tap for Pilot	C2b	8AN	H	50.0	0.15	Rectifier-Doubler	—	—	—	—	—	—	—	—	—
							Half-Wave Rectifier	180	—	—	—	—	—	—	—	—
50Z7-G	Rectifier-Doubler Heater Tap for Pilot	D3	G-8AN	H	50.0	0.15	Rectifier-Doubler	—	—	—	—	—	—	—	—	—
							Half-Wave Rectifier	180	—	—	—	—	—	—	—	—

For other characteristics, refer to Type 50L6-GT.

For other characteristics, refer to Type 50C5.

For other characteristics, refer to Type 50Y6-GT.

For other characteristics, refer to Type 50Y7-GT.

For other characteristics, refer to Type 50Z7-G.

Type	Name	Dimensions and Socket Connections		Cathode Type and Rating		Use	Plate Supply Volts	Grid Bias Volts	Screen Supply Volts	Screen Current Ma.	Plate Current Ma.	AC Plate Resistance Ohms	Trans-conductance (Grid-Plate) umhos	Amplification Factor	Load for Stated Output Ohms	Power Output Watts	
		Dimen.	S. C.	C. T.	Volts												Amp.
53	Twin-Triode Amplifier	D12	7B	H	2.5	2.0	250	-28.0	—	—	26.0	2300	2600	6.0	5000	1.25	
55	Diode-Diode Triode	D9	6C	H	2.5	1.0	Triode Unit as Amplifier	250	—	—	—	—	—	—	—	—	—
							Triode	250	-18.0	250	9.0	35.0	55000	2500	—	—	—
56	Medium-Mu Triode*	D3	5A1	H	2.5	1.0	Triode	300	—	—	—	—	—	—	—	—	—
							Triode	400	—	—	—	—	—	—	—	—	—
57	Sharp-Cutoff Pentode	D13	8F	H	2.5	1.0	Class A Amplifier	110	—	—	—	—	—	—	—	—	
							Class B Amplifier	110	-7.5	110	3.0	40.0	15000	7500	—	—	—
58	Remote-Cutoff Pentode	D13	6F	H	2.5	1.0	Class A Amplifier	90	—	—	—	—	—	—	—	—	
							Class B Amplifier	180	-16.5	—	—	—	—	—	—	—	—
59	Triple-Grid Power Amplifier	E3	7A	H	2.5	2.0	250	-28.0	—	—	26.0	2300	2600	6.0	5000	1.25	
70L7-GT	Rectifier-Beam Power Amplifier	G10	6AA	H	70.0	0.15	Rectifier-Beam Power Amplifier	—	—	—	—	—	—	—	—	—	
							Half-Wave Rectifier	90	-16.5	—	—	—	—	—	—	—	—
71-A	Power Amplifier Triode	D12	4D	F	5.0	0.25	Class A Amplifier	180	—	—	—	—	—	—	—	—	
							Class B Amplifier	180	-40.5	—	—	—	—	—	—	—	—
75	Twin-Diode High-Mu Triode	D9	6C	H	6.3	0.3	Class A Amplifier	—	—	—	—	—	—	—	—	—	
							Class B Amplifier	—	—	—	—	—	—	—	—	—	—
76	Detector Amplifier Triode*	D5	5A1	H	6.3	0.3	Class A Amplifier	—	—	—	—	—	—	—	—	—	
							Class B Amplifier	—	—	—	—	—	—	—	—	—	—
77	Triple-Grid Detector Amplifier	D9	6F	H	6.3	0.3	Class A Amplifier	100	—	—	—	—	—	—	—	—	
							Class B Amplifier	250	-3.0	100	0.5	2.3	600000	1100	1.7	600000	1250
78	Remote-Cutoff Pentode	D9	6F	H	6.3	0.3	Class A Amplifier	250	—	—	—	—	—	—	—	—	
							Class B Amplifier	250	-1.95	50	—	—	—	—	—	—	—
79	Twin-Triode Amplifier	D9	6H	H	6.3	0.6	Class A Amplifier	180	—	—	—	—	—	—	—	—	
							Class B Amplifier	250	—	—	—	—	—	—	—	—	—
80	Full-Wave Rectifier	D12	4C	F	5.0	2.0	With Capacitive-Input Filter	—	—	—	—	—	—	—	—	—	
							With Inductive-Input Filter	—	—	—	—	—	—	—	—	—	—
81	Half-Wave Rectifier	F1a	4B	F	7.5	1.25	With Capacitive-Input Filter	—	—	—	—	—	—	—	—	—	
							With Inductive-Input Filter	—	—	—	—	—	—	—	—	—	—
82	Full-Wave Rectifier	D12	4C	F	2.5	3.0	With Capacitive-Input Filter	—	—	—	—	—	—	—	—	—	
							With Inductive-Input Filter	—	—	—	—	—	—	—	—	—	—

For other characteristics, refer to Type 6N7-GT.

For other characteristics, refer to Type 85.

For other characteristics, refer to Type 76.

For other characteristics, refer to Type 6J7.

For other characteristics, refer to Type 6U7-G.

For other characteristics, refer to Type 6SQ7.

For other characteristics, refer to Type 6K7.

For other characteristics, refer to Type 6X5.

For other characteristics, refer to Type 6X4.

For other characteristics, refer to Type 6X3.

For other characteristics, refer to Type 6X2.

For other characteristics, refer to Type 6X1.

For other characteristics, refer to Type 6X0.

For other characteristics, refer to Type 6X-1.

For other characteristics, refer to Type 6X-2.

For other characteristics, refer to Type 6X-3.

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For other characteristics, refer to Type 6X-98.

For other characteristics, refer to Type 6X-99.

For other characteristics, refer to Type 6X-100.

Discontinued types are shown in light face.

Type	Name	Tube Dimensions and Socket Connections		Cathode Type and Rating		Use	Plate Supply Volts	Grid Bias Volts	Screen Supply Volts	Screen Cur-Mt.	Plate Cur-Mt.	AC Plate Resistance Ohms	Trans-conduc-tance (Grid-plate) umhos	Amplifi-cation Factor	Load for Stated Power Output Ohms	Power Out-put Watts					
		Dimen.	S. C.	C. T.	Volts												Amp.				
83	Full-Wave Rectifier	E3	4C	F	5.0	3.0	Max. AC Volts per Plate (RMS), 450 Max. DC Output Ma., 225 Max. Peak Plate Ma., 1000 Max. AC Volts per Plate (RMS), 550 Max. DC Output Ma., 225 Max. Peak Plate Ma., 1000	—	—	—	—	Max. DC Output Ma., 225 Max. DC Output Ma., 1000 Min. Total Effect. Supply Imped. per Plate, 50 ohms.	—	—	—	—					
83-V	Full-Wave Rectifier	D12	4AD	H	5.0	2.0	For other ratings, refer to Type 5V4-G.	—	—	—	—	—	—	—	—	—					
84/6Z4	Full-Wave Rectifier	D5	5D	H	6.3	0.5	With Capacitive-Input Filter Max. AC Volts per Plate (RMS), 325 Max. DC Output Ma., 60 Max. Peak Plate Ma., 180	—	—	—	—	—	—	—	—	—					
85	Twin-Diode Triode	D9	6G	H	6.3	0.3	With Inductive-Input Filter Max. AC Volts per Plate (RMS), 450 Max. DC Output Ma., 60 Max. Peak Plate Ma., 180	—	—	—	—	—	—	—	—	—					
89	Triple-Grid Power Amplifier	D9	6F	H	6.3	0.4	Triode Unit as Class A Amplifier Max. AC Volts per Plate (RMS), 450 Max. DC Output Ma., 60 Max. Peak Plate Ma., 180 As Triodes* Max. AC Volts per Plate (RMS), 1550 Max. DC Output Ma., 1000 Min. Total Effect. Supply Imped. per Plate, 50 ohms. Class A Amplifier Max. AC Volts per Plate (RMS), 1550 Max. DC Output Ma., 1000 Min. Total Effect. Supply Imped. per Plate, 50 ohms. Class A Amplifier Max. AC Volts per Plate (RMS), 1550 Max. DC Output Ma., 1000 Min. Total Effect. Supply Imped. per Plate, 50 ohms. As Pentodes Max. AC Volts per Plate (RMS), 1550 Max. DC Output Ma., 1000 Min. Total Effect. Supply Imped. per Plate, 50 ohms. Class A Amplifier Max. AC Volts per Plate (RMS), 1550 Max. DC Output Ma., 1000 Min. Total Effect. Supply Imped. per Plate, 50 ohms. As Triodes* Max. AC Volts per Plate (RMS), 1550 Max. DC Output Ma., 1000 Min. Total Effect. Supply Imped. per Plate, 50 ohms. Class B Amplifier Max. AC Volts per Plate (RMS), 1550 Max. DC Output Ma., 1000 Min. Total Effect. Supply Imped. per Plate, 50 ohms.	—	—	—	—	—	—	—	—	—	—	—	—	—	—
V-99 X-99	Detector* Amplifier Triodes	C4 D1	4E 4D	D.C. F	3.3	0.063	Class A Amplifier Max. AC Volts per Plate (RMS), 450 Max. DC Output Ma., 60 Max. Peak Plate Ma., 180	—	—	—	—	—	—	—	—	—					
112-A	Detector* Amplifier Triode	D12	4D	D.C.	5.0	0.25	Class A Amplifier Max. AC Volts per Plate (RMS), 450 Max. DC Output Ma., 60 Max. Peak Plate Ma., 180	—	—	—	—	—	—	—	—	—					
117L7/ M7-GT	Rectifier-Beam Power Tube	C10	8A0	H	117	0.09	Amplifier Unit as Class A Amplifier Max. AC Plate Volts (RMS), 117 Max. DC Output Ma., 75 Min. Total Effect. Plate-Supply Impedance per Plate, 15 ohms.	—	—	—	—	—	—	—	—	—					
117N7-GT	Rectifier-Beam Power Tube	C10	8AV	H	117	0.09	Amplifier Unit as Class A Amplifier Max. AC Plate Volts (RMS), 117 Max. DC Output Ma., 75 Min. Total Effect. Plate-Supply Impedance per Plate, 15 ohms.	—	—	—	—	—	—	—	—	—					
117P7-GT	Rectifier-Beam Power Tube	C10	8AV	H	117	0.09	Amplifier Unit as Class A Amplifier Max. AC Plate Volts (RMS), 117 Max. DC Output Ma., 75 Min. Total Effect. Plate-Supply Impedance per Plate, 15 ohms.	—	—	—	—	—	—	—	—	—					

117Z3	Half-Wave Rectifier	B1a	4CB	H	117	0.04	With Capacitive-Input Filter Max. AC Plate Volts (RMS), 117 Max. DC Output Ma., 90 Min. Total Effect. Plate-Supply Impedance per Plate, 20 ohms.	—	—	—	—	—	—	—	—	—
117Z4-GT	Half-Wave Rectifier	C0	G-5AA	H	117.0	0.04	With Capacitive-Input Filter Max. AC Plate Volts (RMS), 117 Max. DC Output Ma., 90 Min. Total Effect. Plate-Supply Impedance per Plate, 20 ohms.	—	—	—	—	—	—	—	—	—
117Z6-GT	Rectifier-Doubler	C2b	G-7Q1	H	117	0.075	Voltage Doubler Max. AC Volts per Plate (RMS), 117 Max. DC Output Ma., 60 Min. Total Effective Plate-Supply Impedance per Plate: Half-Wave, 30 ohms; Full-Wave, 15 ohms.	—	—	—	—	—	—	—	—	—
183/ 483	Power Amplifier Triode	D12	4D	F	5.0	1.25	Class A Amplifier Max. AC Volts per Plate (RMS), 250 Max. DC Output Ma., 500 Min. Total Effect. Plate-Supply Impedance per Plate, 1.8 ohms.	—	—	—	—	—	—	—	—	—
485	Detector Amplifier Triode	D5	6A1	H	3.0	1.25	Class A Amplifier Max. AC Volts per Plate (RMS), 250 Max. DC Output Ma., 500 Min. Total Effect. Plate-Supply Impedance per Plate, 1.8 ohms.	—	—	—	—	—	—	—	—	—
876	Current Regulator	G1	—	F	—	—	Operating Current.....1.7 Amperes	—	—	—	—	—	—	—	—	—
886	Current Regulator	G1	—	F	—	—	Operating Current.....2.05 Amperes	—	—	—	—	—	—	—	—	—

Discontinued types are shown in light face.

KEY TO TUBE DIMENSIONS

Symbol	Maximum Overall Length, in.	Maximum Overall Diameter, in.	Symbol	Maximum Overall Length, in.	Maximum Overall Diameter, in.	Symbol	Maximum Overall Length, in.	Maximum Overall Diameter, in.
A	1 1/2"	3/8"	B4	2 1/8"	3/8"	C5	3 3/8"	1 3/8"
A1	1 1/2"	3/8"	B4a	3 1/8"	3/8"	C6	3 1/8"	1 1/8"
A1a	1 1/2"	1 1/8"	B5	2 1/8"	1 1/8"	C9a	3 1/8"	1 1/8"
A1b	1 1/2"	1 1/8"	B5a	2 1/8"	1 1/8"	C10	3 1/8"	1 1/8"
B0	2 1/8"	3/8"	C0	3 1/8"	1 1/8"	C10a	3 1/8"	1 1/8"
B0a	2 1/8"	3/8"	C0a	3 1/8"	1 1/8"	C10b	3 1/8"	1 1/8"
B0b	2 1/8"	3/8"	C1	3 1/8"	1 1/8"	C11	3 1/8"	1 1/8"
B0c	2 1/8"	3/8"	C2	3 1/8"	1 1/8"	C11a	3 1/8"	1 1/8"
B1	2 1/8"	3/8"	C2a	3 1/8"	1 1/8"	D1	4 1/8"	1 1/8"
B1a	2 1/8"	1 1/8"	C2b	3 1/8"	1 1/8"	D2	4 1/8"	1 1/8"
B2	2 1/8"	1 1/8"	C3	3 1/8"	1 1/8"	D2a	4 1/8"	1 1/8"
B3	2 1/8"	1 1/8"	C4	3 1/8"	1 1/8"	D3	4 1/8"	1 1/8"
D4	4 1/8"	1 1/8"	D4	4 1/8"	1 1/8"	D4	4 1/8"	1 1/8"
D5	4 1/8"	1 1/8"	D5	4 1/8"	1 1/8"	D5	4 1/8"	1 1/8"
E0a	5 1/8"	1 1/8"	D7	4 1/8"	1 1/8"	E0a	5 1/8"	1 1/8"
E1	5 1/8"	1 1/8"	D8	4 1/8"	1 1/8"	E1	5 1/8"	1 1/8"
E1a	5 1/8"	1 1/8"	D8a	4 1/8"	1 1/8"	E1a	5 1/8"	1 1/8"
E2	5 1/8"	1 1/8"	D8b	4 1/8"	1 1/8"	E2	5 1/8"	1 1/8"
E2a	5 1/8"	1 1/8"	D9	4 1/8"	1 1/8"	E2a	5 1/8"	1 1/8"
E3	5 1/8"	1 1/8"	D9a	4 1/8"	1 1/8"	E3	5 1/8"	1 1/8"
E3a	5 1/8"	1 1/8"	D10	4 1/8"	1 1/8"	E3a	5 1/8"	1 1/8"
F1	5 1/8"	1 1/8"	D12	4 1/8"	1 1/8"	F1	5 1/8"	1 1/8"
F1a	5 1/8"	1 1/8"	D12a	4 1/8"	1 1/8"	F1a	5 1/8"	1 1/8"
G1	8 1/8"	1 1/8"	D12aa	4 1/8"	1 1/8"	G1	8 1/8"	1 1/8"

- ★ For Grid/leak Detection—plate volts, 45; grid return to + filament or to cathode
- Either ac or dc may be used on filament or heater, except as specifically noted. For use of dc on ac filament types, decrease stated grid volts by  $\frac{1}{2}$  (approx.) of filament voltage.
- ▶ Supply voltage applied through 20000-ohm voltage-dropping resistor.

- ▶ Mercury-Vapor Type.
  - 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 connected together. Grid # 3 tied to plate
- Grids # 3 and # 5 are screen. Grid # 4 is signal-input control grid.
- Grids # 2 and # 4 are screen. Grid # 1 is signal-input control grid.
- For grid of following tube.
  - Both grids connected together, likewise, both plates.
  - Power output is for two tubes at stated plate-to-plate load.
- For two tubes.
  - This diagram is like the one having the same designation without the prefix G, except that Pin No. 1 has no connection.
- Obtained preferably by using 70000-ohm voltage-dropping resistor in series with a 90-volt supply.
- This diagram is like the one having the same designation with the prefix G, except that base sleeve is connected to Pin No. 1.
- 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.
- With separate excitation and triode unit grounded.
- Each unit.

- Value is for both units operating at the specified conditions.
- This diagram is like the one having the same designation without the prefix G, except that Pin No. 1 is connected to internal shield.

- Grids # 2 and # 3 tied to plate
- Both grids connected together, likewise both cathodes
- This diagram is like the one having the same designation without the prefix GT, except that the base sleeve is connected to Pin No. 1
- Applied through plate resistor of 100000 ohms.
  - Maximum. § Megohms.
  - 50000 ohms.
- Grids # 1 and # 2 tied together
- Applied through plate resistor of 150000 ohms.
- For signal-input control-grid (# 1), control-grid # 3 bias, -3 volts.
- Grids # 2 and # 4 are screen. Grid # 3 is signal-input control grid.

**Note 1:** Types with octal bases have *Miniature Cap.* all others have *Small Cap*

**Note 2:** Subscript 1 on class of amplifier service (as AB<sub>1</sub>) indicates that grid current does not flow during any part of input cycle.

Subscript 2 on class of amplifier service (as AB<sub>2</sub>) indicates that grid current flows during some part of the input cycle

• For television damper service.

• Cathode-bias resistor, 180 ohms.

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

## LEGEND FOR BASE AND ENVELOPE CONNECTION DIAGRAMS

Bottom Views

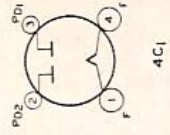
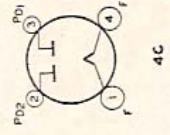
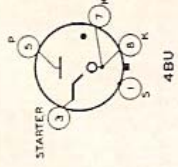
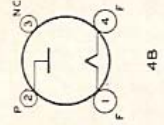
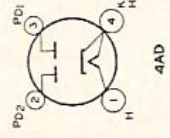
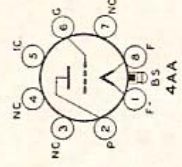
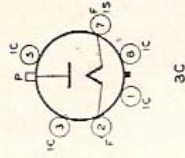
### KEY TO TERMINAL DESIGNATIONS

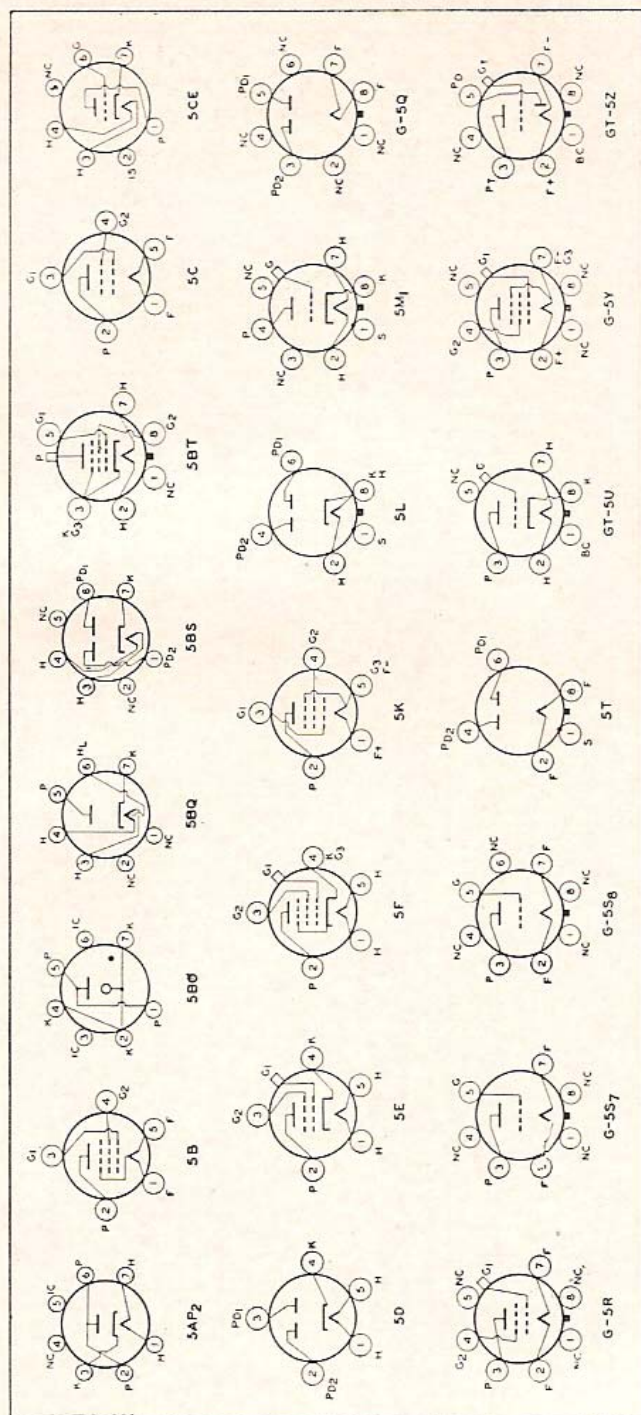
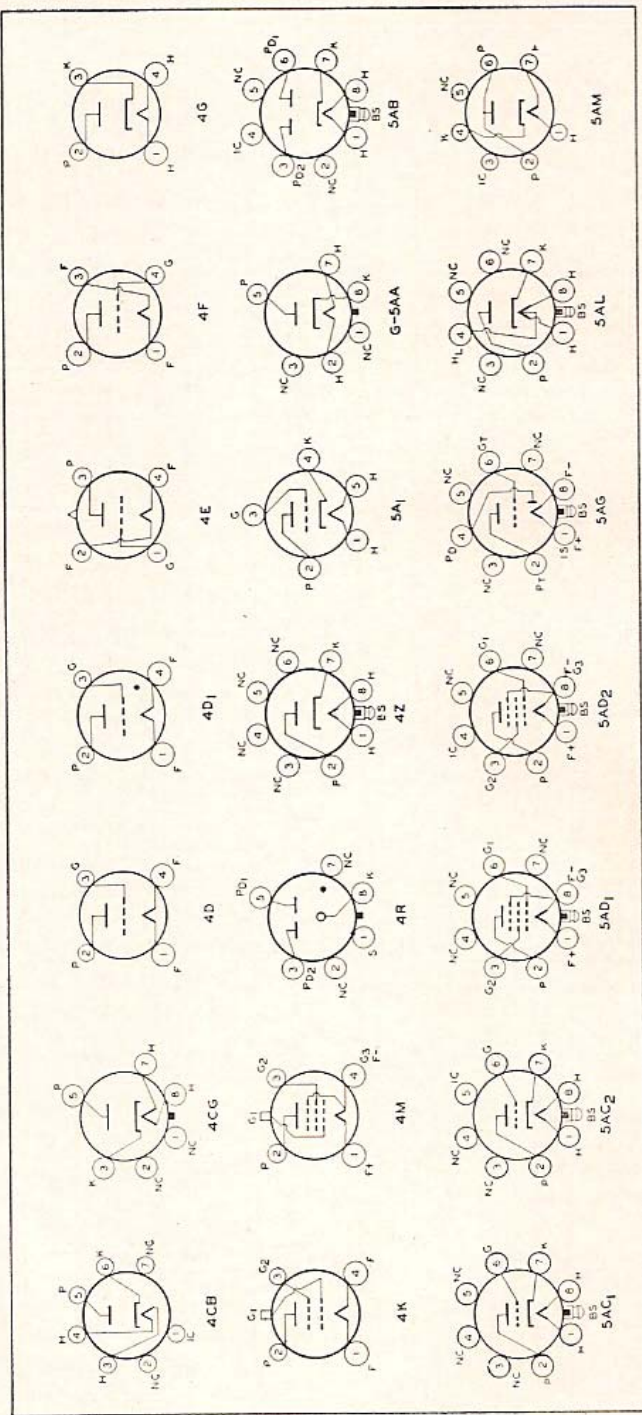
Subscripts B, D, HP, HX, P, T, and TR indicate, respectively, beam unit, diode unit, heptode unit, hexode unit, pentode unit, triode unit, and tetrode unit in multi-unit types.

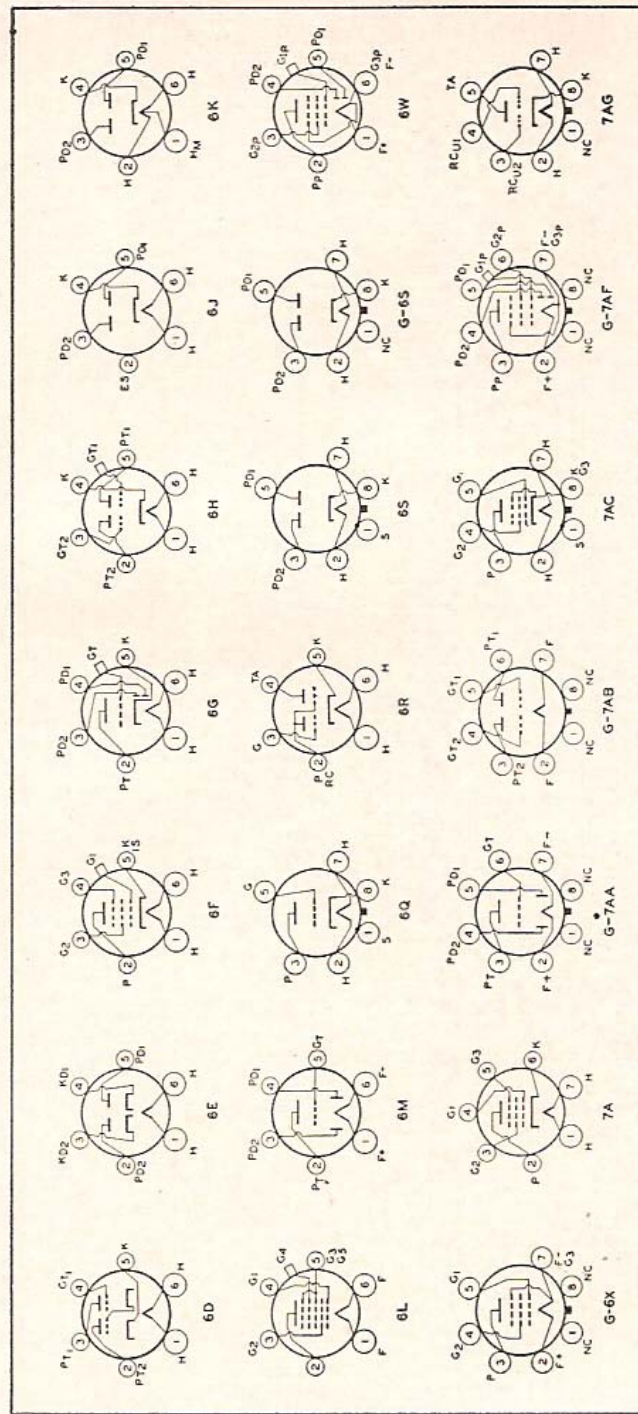
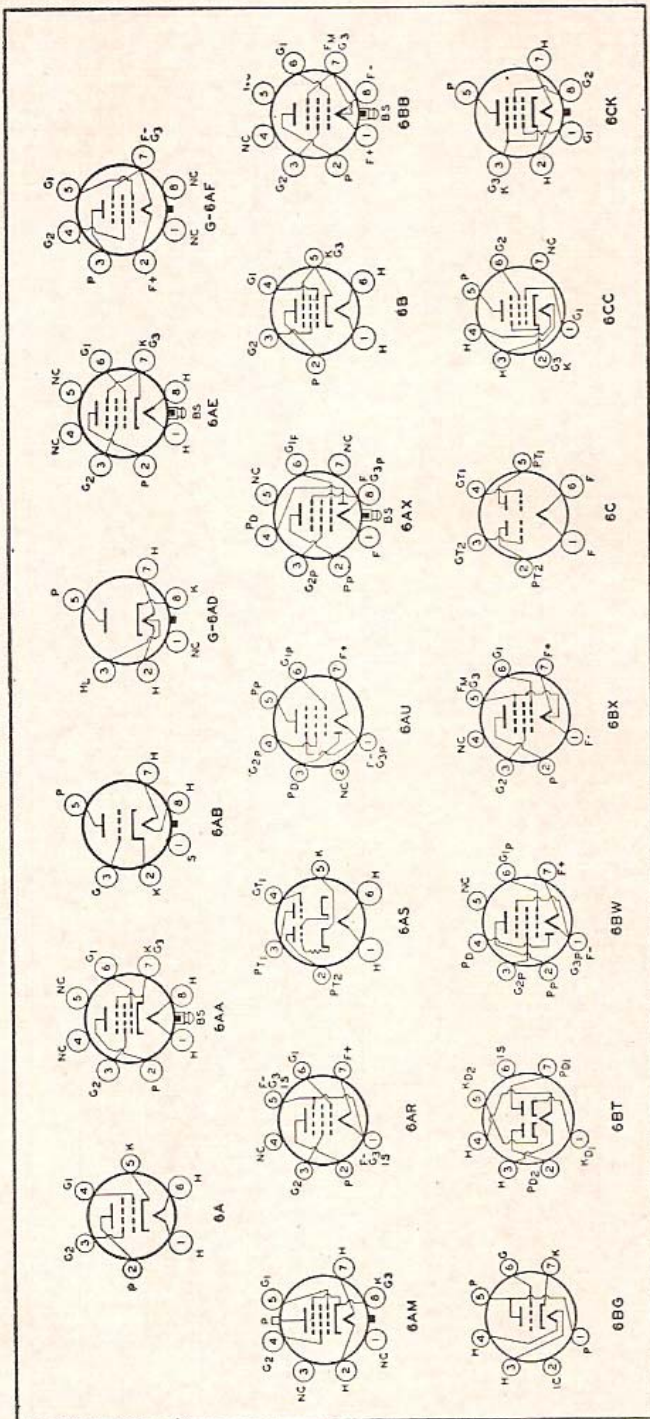
BC = Base Sleeve  
 BS = Base Shell  
 DJ = Deflecting Electrode  
 ES = External Shield  
 F = Filament  
 FM = Filament Mid-Tap

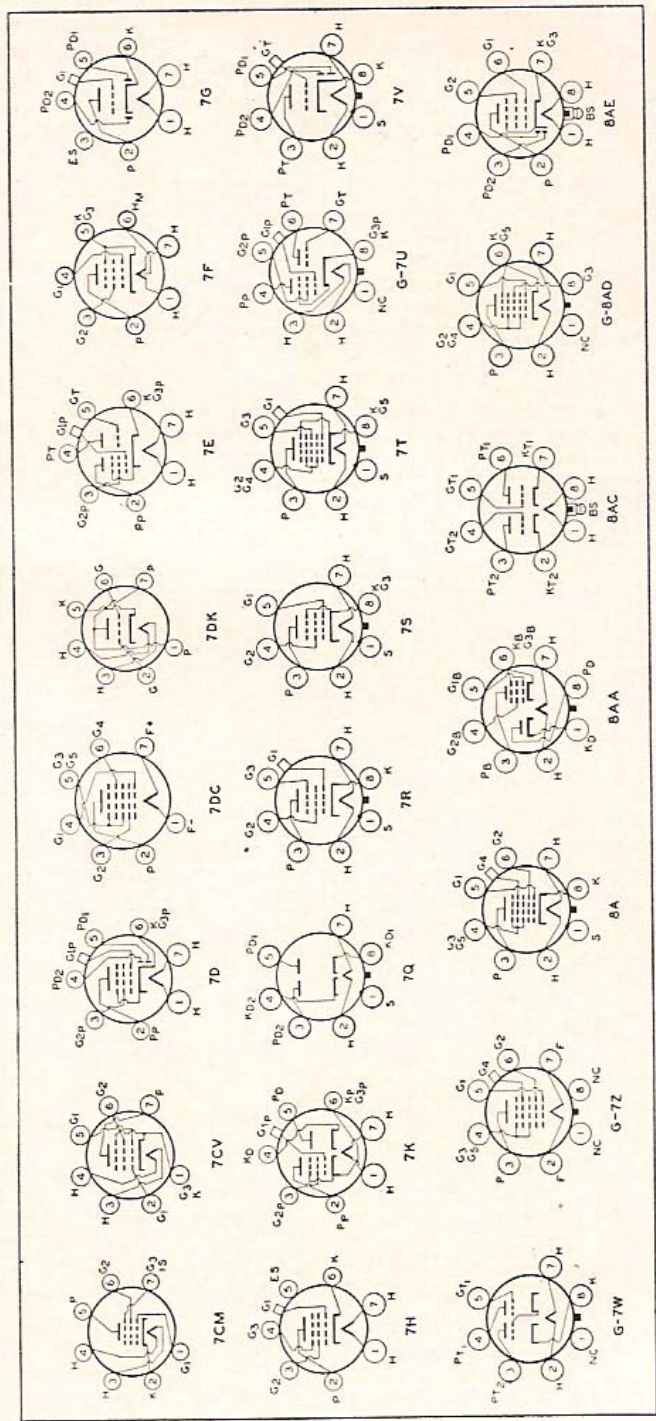
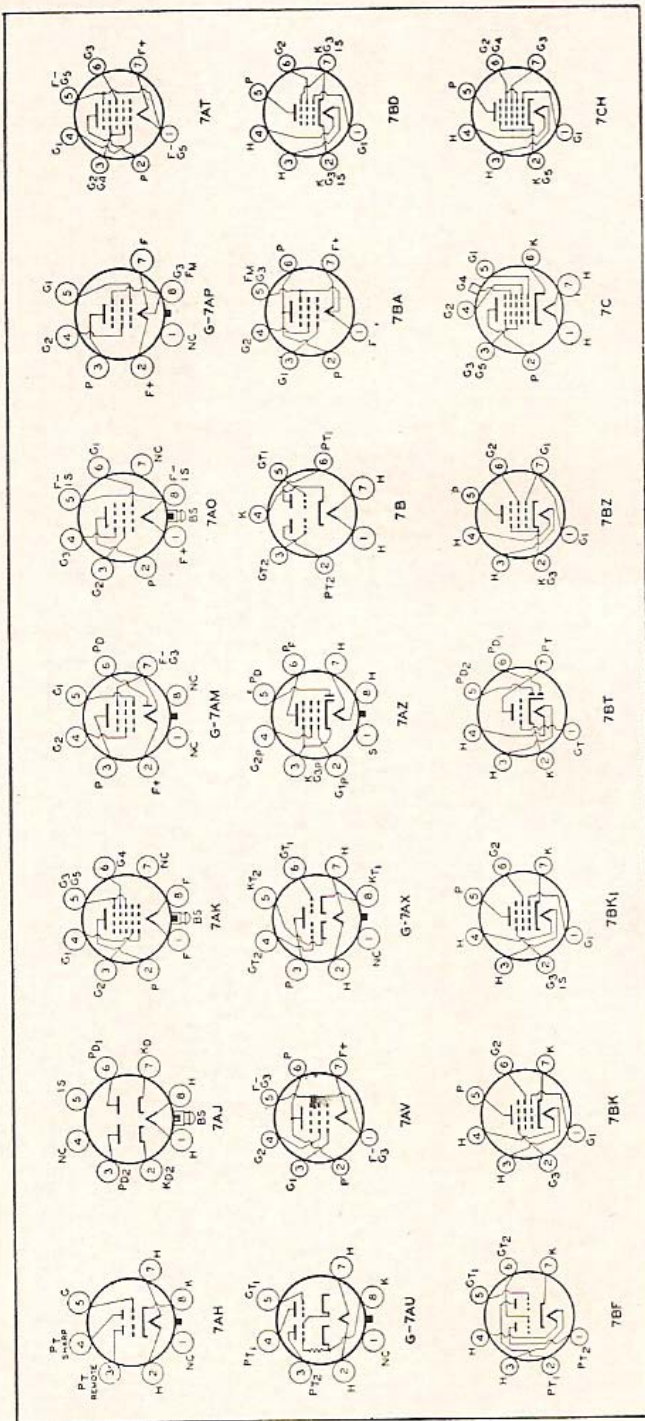
IC = Internal Connection-Do Not Use  
 IS = Internal Shield  
 K = Cathode  
 NC = No Connection  
 P = Plate (Anode)

RC = Ray-Control Electrode  
 S = Shell  
 TA = Target  
 U = Unit  
 • = Gas-Type Tube





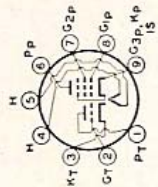




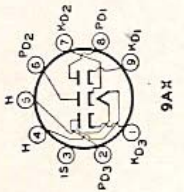




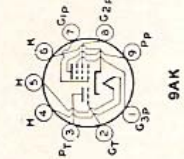
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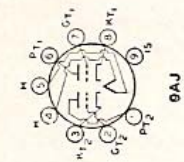
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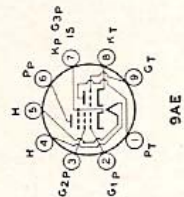
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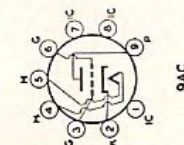
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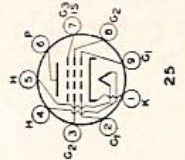
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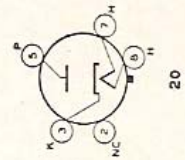
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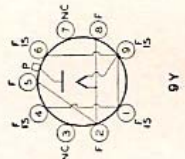
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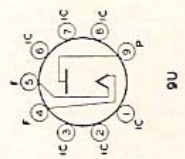
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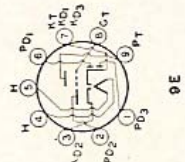
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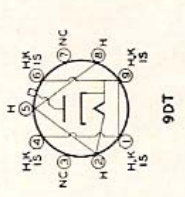
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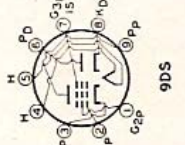
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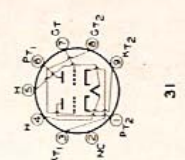
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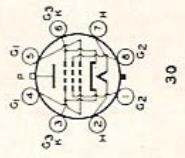
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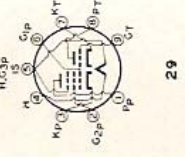
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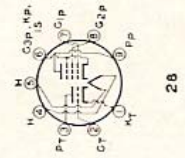
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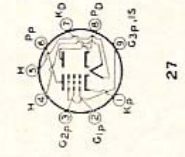
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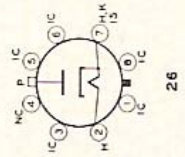
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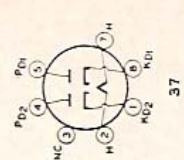
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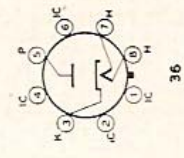
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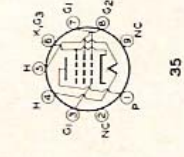
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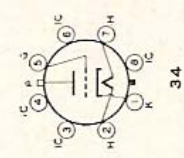
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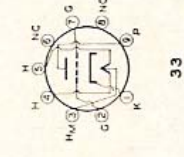
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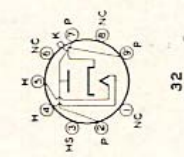
9D5



9D6



9D7



9D8



# RCA KINESCOPE CHARACTERISTICS CHART

Data for these types continued on next page.

RCA Type	Envelope	Faceplate <sup>6</sup>	External Conductive Coating		Focusing Method	Deflection Method	Ion-Trap Magnet	Agrost. Deflection Angle† Degrad	Maximum Dimensions Inches			Neck Length Inches
			Max. $\mu$ in	Min. $\mu$ in					Overall Length	Envelope Diameter	Width	
<b>Black-and-White Types</b>												
3KP4	Glass Round	Clear	None	None	E	E $\circ$	None	None	11 $\frac{3}{4}$	3 $\frac{1}{2}$	—	—
5TP4*	Glass Round	Clear†	500	100	E	M	None	50	12 $\frac{1}{2}$	5 $\frac{1}{2}$	—	7 $\frac{1}{2}$
7DP4	Glass Round	Clear	1500	400	E	M	Single	50	14 $\frac{1}{2}$	7 $\frac{1}{2}$	—	8 $\frac{1}{2}$
7JP4	Glass Round	Clear	None	None	E	E $\circ$	None	None	14 $\frac{1}{2}$	7 $\frac{1}{2}$	—	—
9AP4	Glass Round	Clear	None	None	E	M	None	40	21 $\frac{3}{8}$	9 $\frac{1}{2}$	—	10
10BP4	Same as 10BP4-A, except has clear glass faceplate.											
10BP4-A	Glass Round	Filterglass	2500	500	M	M	Single	52	18	10 $\frac{5}{8}$	—	8 $\frac{1}{2}$
10FP4-A	Glass Round	Filterglass†	2500	500	M	M	None	50	18	10 $\frac{5}{8}$	—	8 $\frac{1}{2}$
12AP4	Glass Round	Clear	None	None	E	M	None	40	25 $\frac{3}{8}$	12 $\frac{1}{2}$	—	9 $\frac{1}{2}$
12KP4-A	Glass Round	Filterglass†	2500	500	M	M	None	54	18	12 $\frac{1}{2}$	—	7 $\frac{1}{2}$
12LP4	Same as 12LP4-A, except has clear glass faceplate.											
12LP4-A	Glass Round	Filterglass	2500	750	M	M	Single	57	19 $\frac{1}{2}$	12 $\frac{1}{2}$	—	8 $\frac{1}{4}$
14EP4/14CP4	Glass Rectangular	Filterglass	2000	750	M	M	Single	65	16 $\frac{7}{8}$	13 $\frac{1}{2}$	12 $\frac{1}{2}$	9 $\frac{1}{2}$
14HP4	Glass Rectangular	Filterglass	2000	750	E	M	Single	65	17 $\frac{1}{2}$	13 $\frac{1}{2}$	12 $\frac{1}{2}$	9 $\frac{1}{2}$
16AP4	Same as 16AP4-A, except has clear glass faceplate.											
16AP4-A	Metal Round	Filterglass	None	None	M	M	Single	53	22 $\frac{3}{8}$	16	—	7 $\frac{1}{2}$
16DP4-A	Glass Round	Filterglass	None	None	M	M	Single	60	21	16	—	7 $\frac{1}{2}$
16GP4	Same as 16GP4-B, except has Filterglass faceplate.											
16GP4-A	Same as 16GP4-B, except has clear glass faceplate.											
16GP4-B	Metal Round	Fronted Filterglass	None	None	M	M	Single	70	17 $\frac{1}{2}$	16	—	6 $\frac{1}{2}$
16GP4-C	Same as 16GP4-B, except has fronted clear glass faceplate.											

Minimum Screen Size Inches	High-Voltage Terminal	Maximum Ratings				Typical Operating Conditions			RCA Type		
		Bas. Ins. Rating	Final High-Voltage Electrode (ULTOR*) Volts	Focusing Electrode Volts	Grid-No. 2 Volts	Grid-No. 1 High-Voltage Electrode (ULTOR*) Volts	Focusing Electrode Volts	Grid-No. 2 Volts		Grid-No. 1 Volts	
<b>Black-and-White Types</b>											
2 $\frac{3}{4}$ Diam.	Base Pin	A	2500	1000	$\infty$	200	2000	320 to 600	$\infty$	-38 to -90	3KP4
4 $\frac{1}{4}$ Diam.	Small Cavity Cap	B	27000	6000	350	150	27000	4320 to 5400	200	-42 to -98	5TP4*
6 Diam.	Small Cavity Cap	B	8000	2400	410	125	6000	1200 to 1650	250	-27 to -63	7DP4
6 Diam.	Base Pin	C	6000	2800	$\infty$	200	6000	1620 to 2400	$\infty$	-72 to -168	7JP4
7 $\frac{1}{4}$ Diam.	Medium Cap	D	7000	2000	300	125	7000	1190 to 1790	250	-20 to -60	9AP4
Ratings and typical operating conditions are same as for type 10BP4-A.											
9 $\frac{1}{8}$ Diam.	Small Cavity Cap	E	12000	—	410	125	8000 to 12000	—	250	-27 to -63	10BP4-A
9 $\frac{1}{8}$ Diam.	Small Cavity Cap	E	12000	—	410	125	8000 to 12000	—	250	-27 to -63	10FP4-A
10 $\frac{3}{4}$ Diam.	Medium Cap	D	7000	2000	300	125	7000	1190 to 1790	250	-20 to -60	12AP4
11 $\frac{1}{4}$ Diam.	Small Cavity Cap	E	12000	—	410	125	9000 to 12000	—	250	-27 to -63	12KP4-A
Ratings and typical operating conditions are same as for type 12LP4-A.											
11 Diam.	Small Cavity Cap	E	12000	—	410	125	9000 to 12000	—	250	-27 to -63	12LP4-A
11 $\frac{1}{8}$ x 8 $\frac{1}{2}$	Small Cavity Cap	E	14000	—	410	125	10000 to 14000	—	300	-33 to -77	14EP4/14CP4
11 $\frac{1}{8}$ x 8 $\frac{1}{2}$	Small Cavity Cap	H	14000	+500 -500	500	125	12000	-50 to +265 -55 to +310	300 300	-33 to -77 -33 to -77	14HP4
Ratings and typical operating conditions are same as for type 16AP4-A.											
14 $\frac{3}{8}$ Diam.	Metal-Shell Lip	F	14000	—	410	125	9000 to 14000	—	300	-33 to -77	16AP4-A
14 $\frac{1}{2}$ Diam.	Small Cavity Cap	F	15000	—	410	125	12000 to 15000	—	250	-33 to -77	16DP4-A
Ratings and typical operating conditions are same as for type 16GP4-B.											
14 $\frac{3}{8}$ Diam.	Metal-Shell Lip	F	14000	—	410	125	12000 to 14000	—	300	-33 to -77	16GP4-B
Ratings and typical operating conditions are same as for type 16GP4-C.											

Data for these types continued from preceding pages.

Data for these types continued on next page.

RCA Type	Envelope	Faceplate <sup>6</sup>	External Conductive Coating		Focusing Method	Deflection Method	Ion-Trap Magnet	Aggr. Dist. Angle†	Maximum Dimensions Inches			Neck Length Inches
			Max. μd	Min. μd					Overall Length	Envelope Diameter	Width	
<b>Black-and-White Types</b>												
16LP4-A	Glass Round	Filterglass	2000	750	M	M	Single	52	22½	16	—	7½
16RP4/16KP4	Glass Rectangular	Filterglass	2000	750	M	M	Single	65	19½	16½	14½	7½
Same as 16RP4/16KP4, except has aluminized screen.												
16RP4-A/16KP4-A	Glass Rectangular	Filterglass	2000	750	M	M	Single	65	18½	16½	14½	6½
16WP4-A	Glass Round	Filterglass	1500	750	M	M	Single	70	18½	16	—	7½
17AVP4	Glass Rectangular	Filterglass	1500	750	E	M	Single	85*	16	16½	15½	6½
17BP4-A	Glass Rectangular	Filterglass	1500	750	M	M	Single	65	19½	16½	15½	7½
Same as 17BP4-A, except has aluminized screen.												
17BP4-B	Metal Rectangular	Frosted Filterglass	None	None	M	M	Single	66	19	17	16½	7½
17CP4	Metal Rectangular	Frosted Filterglass	None	None	M	M	Single	66	19	17	16½	7½
Same as 17CP4, except has Filterglass faceplate.												
17CP4-A	Metal Rectangular	Frosted Filterglass	None	None	E	M	Single	66	19½	17	16½	7½
17GP4	Glass Rectangular	Filterglass	1500	750	E	M	Single	65	19½	16½	15½	7½
17HP4/17RP4	Glass Rectangular	Filterglass†	1500	750	E	M	Single	65	19½	16½	15½	7½
17HP4-B	Glass Rectangular	Filterglass	750	500	M	M	Single	65	19½	16½	15½	7½
17JP4	Glass Rectangular	Filterglass**	1500	750	E	M	Single	65	19½	16½	15½	7½
17LP4/17VP4	Glass Rectangular	Filterglass†**	1500	750	E	M	Single	65	19½	16½	15½	7½
17QP4	Glass Rectangular	Filterglass**	1500	750	M	M	Single	65	19½	16½	15½	7½
17TP4	Metal Rectangular	Frosted Filterglass	None	None	E	M	Single	66	19½	17	16½	7½

Minimum Screen Size Inches	High-Voltage Terminal	Maximum Ratings				Typical Operating Conditions				RCA Type	
		Final High-Voltage Electrode Volt	Focusing Electrode Volt	Grid No. 1 Volt	Grid No. 2 Volt	Final High-Voltage Electrode (V <sub>max</sub> ) Volt	Focusing Electrode Volt	Grid No. 1 Volt	Grid No. 2 Volt		
14½ x 10½	Small Cavity Cap	E 14000	—	410	125	12000 to 14000	—	300	—33 to -77	16LP4-A	
13½ x 10½	Small Cavity Cap	E 16000	—	410	125	12000 to 16000	—	300	—33 to -77	16RP4/16KP4	
Ratings and typical operating conditions are same as for type 16RP4/16KP4.											
13½ x 10½	Small Cavity Cap	E 14000	—	410	125	12000 to 14000	—	300	—33 to -77	16TP4	
14½ Diam.	Small Cavity Cap	E 16000	—	410	125	12000 to 16000	—	250	-27 to -63	16WP4-A	
14½ x 10½	Small Cavity Cap	H 16000	+1000	500	125	14000	-55 to +310	300	-33 to -77	17AVP4	
14½ x 10½	Small Cavity Cap	E 16000	-500*	—	410	125	12000 to 16000	—	300	-33 to -77	17BP4-A
Ratings and typical operating conditions are same as for type 17BP4-A.											
14½ x 10½	Metal-Shell Lip	F 16000	—	410	125	12000 to 16000	—	300	—33 to -77	17BP4-B	
Ratings and typical operating conditions are same as for type 17CP4.											
14½ x 10½	Metal-Shell Lip	G 16000	5000	500	125	12000	2040 to 2760	300	-33 to -77	17CP4-A	
14½ x 10½	Small Cavity Cap	H 16000	+1000	500	125	14000	-55 to +300	300	-33 to -77	17GP4	
14½ x 10½	Small Cavity Cap	H 16000	-500*	—	410	125	12000 to 16000	—	300	-33 to -77	17HP4/17RP4
14½ x 10½	Small Cavity Cap	H 18000	+1000	500	125	14000	-55 to +300	300	-33 to -77	17HP4-B	
14½ x 10½	Small Cavity Cap	E 18000	-500*	—	410	125	14000 to 18000	—	300	-33 to -77	17JP4
14½ x 10½	Small Cavity Cap	H 16000	+1000	500	125	14000	-55 to +300	300	-33 to -77	17LP4/17VP4	
14½ x 10½	Small Cavity Cap	H 16000	+1000	500	125	14000	-55 to +300	300	-33 to -77	17LP4-A	
14½ x 10½	Small Cavity Cap	J 16000	—	410	125	12000 to 16000	-65 to +350	300	-33 to -77	17QP4	
14½ x 10½	Metal-Shell Lip	G 16000	+1000	500	125	14000	-55 to +300	300	-33 to -77	17TP4	

Data for these types continued from preceding pages.

Data for these types continued on next page.

RCA Type	Envelope	Faceplate <sup>o</sup>	External Conductive Coating		Focusing Method	Deflection Method	Ion-Trap Magnet	Approx. Deflection Angle† Degrees	Maximum Dimensions <sup>o</sup> Inches			Neck Length Inches	
			Max. $\mu$ A	Min. $\mu$ A					Overall Length	Envelope Diameter	Width		Height
Black-and-White Types													
19AP4	Same as 19AP4-B, except has clear glass faceplate.												
19AP4-A	Same as 19AP4-B, except has Filterglass faceplate.												
19AP4-B	Metal Round	Frosted Filterglass	None	None	M	M	Single	66	22	18%	—	7½	
19AP4-D	Same as 19AP4-B, except has frosted clear glass faceplate.												
20CP4	Glass Rectangular	Filterglass	None	None	M	M	Single	66	21½	20%	18%	15½	7½
20DP4-A/ 20CP4-A	Glass Rectangular	Filterglass	750	500	M	M	Single	66	21½	20%	18%	15½	7½
20DP4-C/ 20CP4-D	Glass Rectangular	Filterglass†	750	500	M	M	Single	66	21½	20%	18%	15½	7½
20MP4	Glass Rectangular	Filterglass	750	500	E	M	Single	66	22½	20%	18%	15½	7½
21ACP4-A	Glass Rectangular	Filterglass†**	750	500	M	M	Single	85*	20½	21½	20%	16½	7½
21ALP4-A	Glass Rectangular	Filterglass†	750	500	E	M	Single	85*	20½	21½	20%	16½	7½
21ALP4-B	Glass Rectangular	Filterglass†	750	500	E	M	Single	85*	20½	21½	20%	16½	7½
21AMP4-A	Glass Rectangular	Filterglass†	750	500	M	M	Single	85*	20½	21½	20%	16½	7½
21AP4	Metal Rectangular	Frosted Filterglass	None	None	M	M	Single	66	22½	21	19½	15½	7½
21ATP4	Glass Rectangular	Filterglass†	1500	1200	E	M	Single	85*	20½	21½	20%	16½	7½
21AVP4/ 21AUP4	Glass Rectangular	Filterglass	1500	1200	E	M	Single	67**	23½	21½	20%	16½	7½
21AVP4-A/ 21AUP4-A	Glass Rectangular	Filterglass†	1500	1200	E	M	Single	67**	23½	21½	20%	16½	7½
21AWP4	Glass Rectangular	Filterglass†	1500	1200	M	M	Single	67**	23½	21½	20%	16½	7½
21EP4	Same as 21EP4-A, except has no external conductive coating.												
21EP4-A	Glass Rectangular	Filterglass**	750	500	M	M	Single	65	23%	21½	20%	15¾	7½
21EP4-B	Same as 21EP4-A, except has aluminized screen.												

Minimum Screen Size Inches	High-Voltage Terminal	Beam	Maximum Ratings				Typical Operating Conditions			RCA Type	
			Final High-Voltage Electrode (ULTOR) <sup>o</sup> Volt	Final High-Voltage Electrode (ULTOR) <sup>o</sup> Volt	Grid No. 2 Bias Volt	Grid No. 1 Bias Volt	Focus Electrode Volt	Grid No. 2 Volt	Grid No. 1 Volt		
Black-and-White Types											
Ratings and typical operating conditions are same as for type 19AP4-B.											
17½ Diam.	Metal-Shell Lip	F	16000	—	410	125	12000 to 19000	—	300	—33 to -77	19AP4-A
Ratings and typical operating conditions are same as for type 19AP4-B.											
17 x 12½	Small Cavity Cap	F	18000	—	410	125	14000 to 18000	—	300	-33 to -77	19AP4-D
17 x 12½	Small Cavity Cap	F	18000	—	410	125	14000 to 18000	—	300	-33 to -77	20CP4
17 x 12½	Small Cavity Cap	F	18000	—	410	125	14000 to 18000	—	300	-33 to -77	20DP4-A/ 20CP4-A
17 x 12½	Small Cavity Cap	H	16000	+1000 -500*	500	125	14000 to 18000	—	300	-33 to -77	20DP4-C/ 20CP4-D
19½ x 15	Small Cavity Cap	E	20000	—	500	125	13000 to 19000	—	300	-28 to -72	20MP4
19½ x 15	Small Cavity Cap	H	18000	+1000 -500*	500	125	16000	-65 to +350	300	-33 to -77	21ACP4-A
19½ x 15	Small Cavity Cap	H	20000	+1000 -500*	500	125	18000	-75 to +400	400	-42 to -101	21ALP4-A
19½ x 15	Small Cavity Cap	F	18000	—	500	125	16000	-65 to +350	300	-33 to -77	21ALP4-B
18½ x 13½	Metal-Shell Lip	F	18000	—	410	125	14000 to 18000	—	300	-33 to -77	21AMP4-A
Ratings and typical operating conditions are same as for type 21ALP4-A.											
19½ x 15	Small Cavity Cap	H	18000	1000 -500*	500	125	14000 to 18000	—	300	-28 to -72	21ATP4
19½ x 15	Small Cavity Cap	H	18000	1000 -500*	500	125	18000	-72 to +395	300	-28 to -72	21AVP4/ 21AUP4
19½ x 15	Small Cavity Cap	H	18000	1000 -500*	500	125	14000	-55 to +300	300	-33 to -77	21AVP4-A/ 21AUP4-A
19½ x 15	Small Cavity Cap	F	18000	—	500	125	14000 to 18000	—	300	-42 to -101	21AWP4
Ratings and typical operating conditions are same as for type 21EP4-A.*											
19½ x 13½	Small Cavity Cap	J	18000	—	500	125	14000 to 18000	—	300	-33 to -77	21EP4
Ratings and typical operating conditions are same as for type 21EP4-A.											
19½ x 13½	Small Cavity Cap	J	18000	—	500	125	14000 to 18000	—	300	-33 to -77	21EP4-A
19½ x 13½	Small Cavity Cap	J	18000	—	500	125	14000 to 18000	—	300	-33 to -77	21EP4-B

Data for these types continued from preceding pages.

Data for these types continued on next page.

Type	Envelope	Faceplate <sup>φ</sup>	External Conductive Coating		Focusing Method	Deflection Method	Ion-Trap Magnet	Approx. Deflection Angle <sup>Δ</sup> Degrees	Maximum Dimensions Inches			Neck Length Inches	
			Max. rad.	Min. rad.					Overall Length	Envelope Diameter	Width		Height
<b>Black-and-White Types</b>													
21FP4-A	Glass Rectangular	Filterglass**	750	500	E	M	Single	65	23 $\frac{3}{8}$	21 $\frac{13}{32}$	20 $\frac{7}{8}$	15 $\frac{3}{4}$	7 $\frac{1}{2}$
21FP4-C	Same as 21FP4-A, except has aluminized screen.												
21MP4	Metal Rectangular	Frosted Filterglass	None	None	E	M	Single	66	22 $\frac{5}{8}$	21	19 $\frac{7}{32}$	15 $\frac{7}{16}$	7 $\frac{1}{2}$
21YP4	Glass Rectangular	Filterglass	750	500	E	M	Single	65	23 $\frac{13}{32}$	21 $\frac{11}{32}$	20 $\frac{3}{8}$	15 $\frac{11}{16}$	7 $\frac{1}{2}$
21YP4-A	Same as 21YP4, except has aluminized screen.												
21ZP4-A	Glass Rectangular	Filterglass	750	500	M	M	Single	65	23 $\frac{13}{32}$	21 $\frac{11}{32}$	20 $\frac{3}{8}$	15 $\frac{11}{16}$	7 $\frac{1}{2}$
21ZP4-B	Same as 21ZP4-A, except has aluminized screen.												
24CP4-A	Glass Rectangular	Filterglass	750	500	M	M	Single	85*	21 $\frac{1}{2}$	24 $\frac{1}{8}$	22 $\frac{13}{16}$	19	7 $\frac{1}{2}$
24DP4-A	Glass Rectangular	Filterglass†	500	750	E	M	Single	85*	21 $\frac{1}{2}$	24 $\frac{1}{8}$	22 $\frac{13}{16}$	18 $\frac{3}{16}$	7 $\frac{1}{2}$
24YP4	Glass Rectangular	Filterglass†	1500	1200	E	M	Single	85*	21 $\frac{1}{2}$	24 $\frac{1}{8}$	22 $\frac{13}{16}$	18 $\frac{3}{16}$	7 $\frac{1}{2}$
27MP4	Metal Rectangular	Frosted Filterglass†	None	None	M	M	Single	85*	22 $\frac{3}{16}$	27 $\frac{1}{8}$	25 $\frac{7}{16}$	20 $\frac{3}{8}$	7 $\frac{1}{2}$
<b>Color Types</b>													
15GP22**	Glass Round	Clear	3000	1500	E	M	None	45	26 $\frac{1}{2}$	14 $\frac{3}{8}$ *	—	—	10 $\frac{3}{8}$
21AXP22	Metal Round	Filterglass†	None	None	E	M	None	70	25 $\frac{5}{8}$	20 $\frac{1}{16}$ †	—	—	9 $\frac{1}{2}$

E = Electrostatic. M = Magnetic. Note: All kinescopes shown have 10.6 cm. pipe heaters except 21ZP4. Light face = Discontinued type. <sup>φ</sup> Special, unless otherwise specified. \* At faceplate. \*\* At faceplate.

† Utilizes aluminized screen. ‡ Cylindrical faceplate. Δ Grid No. 2 connected to final high-voltage electrode within tube. †† Projection type. ††† Corresponding diagonal deflection angle is 90°. †††† At ultralip-terminal. ††††† This type has a flat, aluminized, filterglass screen plate.

‡ For rectangular tubes, horizontal deflection angle is shown; corresponding diagonal deflection angle is 70° unless otherwise specified. \* This value has been specified to take care of the conditions of an ac voltage is provided for focusing.

‡ Diagonal deflection angle is 72°.

Data for these types continued from preceding pages.

Minimum Screen Size Inches	High-Voltage Terminal	Maximum Ratings			Typical Operating Conditions			Type		
		Final High-Voltage Electrode (0.100") Volt	Focusing Electrode Volt	Grid-No. 1 Volt	Final High-Voltage Electrode (0.100") Volt	Focusing Electrode Volt	Grid-No. 1 Volt			
19 $\frac{1}{2}$ x 13 $\frac{1}{8}$	Small Cavity Cap	H 18000 -500*	500	125	14000 16000	+1000 -500*	-55 to +300 -65 to +350	300 300	21FP4-A	
Ratings and typical operating conditions are same as for type 21FP4-A.										
18 $\frac{3}{8}$ x 13 $\frac{1}{16}$	Metal-Shell Lip	G 16000 -500*	500	125	14000 16000	+1000 -500*	-55 to +300 -65 to +350	300 300	21MP4	
19 $\frac{1}{2}$ x 14 $\frac{3}{8}$	Small Cavity Cap	H 18000 -500*	500	125	16000 18000	+1000 -500*	-65 to +350 -70 to +395	300 300	21YP4	
Ratings and typical operating conditions are the same as for type 21YP4.										
19 $\frac{1}{2}$ x 14 $\frac{3}{8}$	Small Cavity Cap	J 15000	—	500	125	16000 to 18000	—	300	21YP4-A	
Ratings and typical operating conditions are the same as for type 21ZP4-A.										
21 $\frac{1}{4}$ x 16 $\frac{3}{4}$	Small Cavity Cap	J 20000	—	500	125	16000 to 18000	—	300	21ZP4-B	
21 $\frac{1}{4}$ x 16 $\frac{3}{4}$	Small Cavity Cap	H 20000 +1500 -500*	500	125	16000 18000	+1500 -500*	-65 to +350 -75 to +400	300 400	24CP4-A 24DP4-A	
Ratings and typical operating conditions are the same as for type 24DP4-A.										
23 $\frac{1}{8}$ x 18 $\frac{3}{8}$	Metal-Shell Lip	F 18000	—	500	125	16000 to 18000	—	300	24YP4 27MP4	
<b>Color Types</b>										
11 $\frac{1}{2}$ x 8 $\frac{5}{8}$	Metal Flange	K 20000	5000	500*	200*	For additional data, refer to technical bulletin available on request.				15GP22
19 $\frac{5}{8}$ x 15 $\frac{1}{4}$	Metal Flange	L 25000	6000	800*	400*	For additional data, refer to technical bulletin available on request.				21AXP22

‡ Positive bias value = 0 volts; positive peak value = 2 volts. \* Estimation of undeflected focused spot. † The values for visual extinction of focused raster are about 5 volts less negative than the indicated values. ‡ For base diagram, refer to diagram F.

Δ Deflection Factors (volts de/in.) for typical operating conditions shown:

Type	D <sub>1</sub> & D <sub>2</sub> (near zero)	D <sub>1</sub> & D <sub>2</sub> (near bias)
3KP4	100 to 136	76 to 104
21P4	166 to 246	150 to 204

\* U.T.O.R. is defined as the electrode, or the electrode combination with the greatest deflection within the tube to its to which is applied the highest dc voltage for accelerating the electrons in the beam prior to its deflection.

# RCA QUICK-SELECTION GUIDE

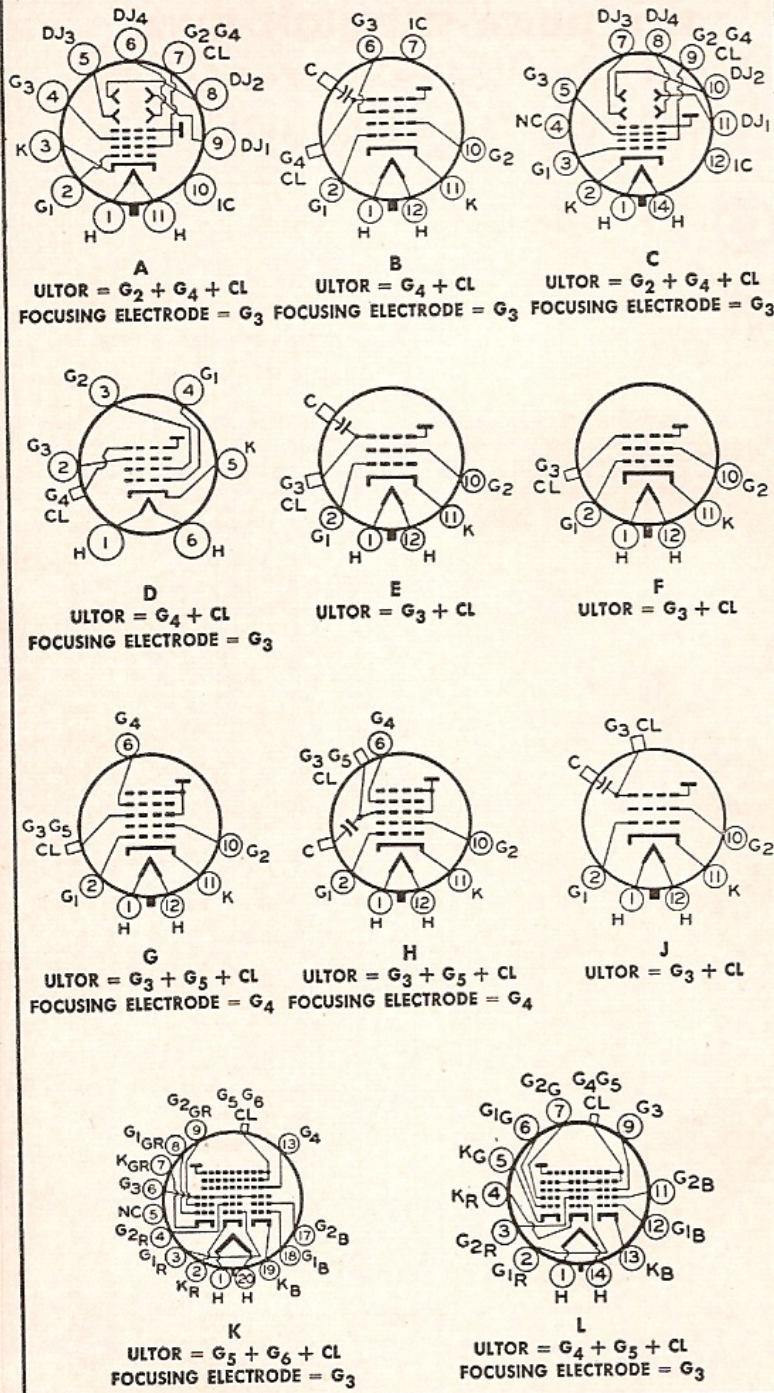
## Power, Cathode-Ray, Photo-, and Special Tubes for Radio and Industry

### VACUUM POWER TUBES

TYPE	CATHODE VOLTS	MAXIMUM DIMENSIONS INCHES		AMPLIFICATION FACTOR	MAX. PLATE RATINGS*	
		Length	Diam.		DC Volts	Dissipation Watts
<b>TRIODES (AIR-COOLED)</b>						
3C33	12.6	3 $\frac{1}{4}$	2 $\frac{3}{8}$	11b	±2000	15
10-Y	7.5	5 $\frac{3}{8}$	2 $\frac{1}{8}$	8	450	15
800	7.5	6 $\frac{3}{8}$	2 $\frac{1}{4}$	15	1250	35
801-A	7.5	5 $\frac{3}{8}$	2 $\frac{1}{8}$	8	600	20
805	10	8 $\frac{1}{2}$	2 $\frac{5}{16}$	variable	1500	125
806	5	10	3 $\frac{1}{16}$	12.6	3300†	225†
808	7.5	6 $\frac{1}{4}$	2 $\frac{1}{8}$	47	2000†	75†
809	6.3	6 $\frac{9}{16}$	2 $\frac{1}{8}$	50	1000†	30†
810	10	8 $\frac{3}{4}$	2 $\frac{1}{4}$ *	36	2500†	175†
811-A	6.3	6 $\frac{21}{32}$	2 $\frac{7}{16}$	160	1500†	65†
812-A	6.3	6 $\frac{21}{32}$	2 $\frac{7}{16}$	29	1500†	65†
826	7.5	3 $\frac{1}{4}$	2 $\frac{3}{8}$	31	1000†	55†
830-B	10	6 $\frac{11}{16}$	2 $\frac{1}{8}$	25	1000	60
833-A	10	8 $\frac{1}{2}$	4 $\frac{3}{32}$	35	3300†	350†
834	7.5	6 $\frac{7}{8}$	2 $\frac{1}{8}$	10.5	1250	50†
838	10	7 $\frac{7}{8}$	2 $\frac{1}{8}$	variable	1250	100
841	7.5	5 $\frac{3}{8}$	2 $\frac{1}{8}$	30	450	15
842	7.5	5 $\frac{3}{8}$	2 $\frac{1}{8}$	3	425	12
845	10	7 $\frac{7}{8}$	2 $\frac{5}{16}$	5.3	1250	100
849	11	14 $\frac{3}{8}$	4 $\frac{1}{16}$	19	2500	400
851	11	17 $\frac{5}{8}$	6 $\frac{1}{8}$	20.5	2500	750
1623	6.3	6 $\frac{9}{16}$	2 $\frac{7}{16}$	20	1000†	30†
1626	12.6	4 $\frac{1}{8}$	1 $\frac{9}{16}$	5	250	5
5556	4.5	4 $\frac{1}{2}$	1 $\frac{5}{8}$	8.5	350	10
8000	10	8 $\frac{3}{4}$	2 $\frac{1}{4}$ *	16.5	2500†	175†
8003	10	8 $\frac{1}{2}$	2 $\frac{9}{16}$	12	1350	100
8005	10	6 $\frac{1}{4}$	2 $\frac{7}{16}$	20	1500†	85†
8012-A	6.3	3 $\frac{1}{2}$	1 $\frac{3}{16}$ *	18	1000	40
8025-A	6.3	4 $\frac{1}{8}$	1 $\frac{5}{64}$ *	18	1000†	30†

†For Intermittent Commercial and Amateur Service.

\*Absolute values for Continuous Commercial Service, unless otherwise specified. b Per Unit. \*Maximum Radius.



## RCA QUICK-SELECTION GUIDE

### VACUUM POWER TUBES (cont'd)

TYPE	CATH-ODE VOLTS	MAXIMUM DIMEN-SIONS INCHES		AMPLIFI-CATION FACTOR	MAX. PLATE RATINGS*	
		Length	Diam.		DC Volts	Dissi-pation Watts
<b>TRIODES (WATER-COOLED)</b>						
9C21	19.5	24 1/2	9 1/2	40	17000	40000
207	22	20 3/4	6 1/2*	20	15000	10000
862-A	33	60 3/8	10*	45	20000	100000
880	12.6	11 3/8	7	20	10500	20000
889-A	11	10 1/2	3 5/8	21	8500	5000
891	11#	20 7/8	6 1/2*	8.5	12000	6000
892	11#	20 7/8	6 1/2*	50	15000	10000
893-A	20#	26 3/4	6 3/8*	34.5	20000	20000
898-A	33#	60 3/8	10*	45	20000	100000
5770	11	24 1/2	9 1/2	41	17000	50000
5771	7.5	11 5/8	7	20	12500	22500
5831	6	38 3/4	9 5/8	30	16000	150000
6383	6.3	4 3/2	1 3/4	27	1500	600

### TRIODES (FORCED-AIR-COOLED)

2C39-A	6.3	2 3/4	1 7/64	100	1000	100
4C33	5	4 7/8	2 1/8	25	13000†	250†
9C22	19.5	25	17	41	17000	20000
9C25	6	17 3/8	14 1/4	32	11500	17500
833-A	10	8 1 3/8	4 1 3/8	35	4000	450
889R-A	11	11 7/8	5 1/2*	21	8500	5000
891-R	11#	22	6 1/2*	8.5	10000	4000
892-R	11#	22	6 1/2*	50	12500	4000
893A-R	20#	28	8 1 3/8*	34.5	20000	20000
5588	6.3	3 1 3/2	1 3/4	16	1000	200
5592	11	17 3/8	14 1/4	32	11500	17500
5604-A	11	13 3/4	5 1/2*	20	12500	10000
5671	11	25	16 1 5/8	39	15000	25000
5713	3.3	4 7/8	2 1/8	25	1500	250
5762/7C24	12.6	7 1/8	4 1 1/8	29	6200	3000
5786	11	9 5/8	2 1 5/8	32	3000	600
5946	6.3	3 1 3/2	1 3/4	27	7500*	250
6161	6.3	3 1 3/2	1 3/4	27	1600	250

### TETRODES (AIR-COOLED)

4-65A	6	4 3/8	2 3/8	5§	3000	65
4-125A/4D21	5	5 1/2	2 3/4	5.9§	3000	125
860	10	8 3/4	4 1/4*	1100	3000	100
861	11	17 3/2	6 5/8*	2400	3500	400
865	7.5	5 3/4	2 1/8	750	750	15

\*Maximum Radius. #Per Section. §Grid-Screen Mu-Factor.  
 •Absolute values for Continuous Commercial Service.  
 †Pulsed Oscillator Operation—Class C Plate Modulated.  
 ★Peak Positive-Pulse Plate-Supply Volts.

## RCA QUICK-SELECTION GUIDE

### VACUUM POWER TUBES (cont'd)

TYPE	CATH-ODE VOLTS	MAXIMUM DIMEN-SIONS INCHES	TRANS-CON-DUC-TANCE	MAX. PLATE RATINGS*		Dissi-pation Watts
				DC Volts	Micro-mhos	
<b>TETRODES (WATER-COOLED)</b>						
8D21	3.2	12 9/32	5 3/4	5§b	6000	6000
<b>TETRODES (FORCED-AIR-COOLED)</b>						
4-250A/5D22	5	6 3/8	3 9/16	4000	4000	250
4-1000A	7.5	9 5/8	5 1/4	7§	6000	1000
4X150A	6	2 1 5/2	1 5/8	5§	1250	150
4X500A	5	4 3/8	2 9/8	6.2§	4000	500
827-R	7.5	6 3/8	4 1 1/2	16§	3500	800
6166	5	11 5/8	6 1 1/2	10§	6600	10000
6181	120	7 7/8	5 1/2	8§	2000	2000
<b>BEAM POWER TUBES AND PENTODES (AIR-COOLED)</b>						
2E24	6.3	3 1 1/2	1 5/8	3200	700☆	18.5☆
2E26	6.3	3 1 1/2	1 5/8	3500	700☆	18.5☆
3E22	6.3/12.6	4 9/8	2 3/8	4000	600☆	35☆
3E29— Similar to type 829-B but for pulsed operation.						
4E27/8001	5	6 1 5/8	2 1 1/8	2800	4000	75
4E27A/5-125B	5	6 3/8	2 3/4	2150	4000	125
802	6.3	5 3/4	2 1 5/8	2250	600†	13†
803	10	9 1/4	2 9/8	4000	2000	125
804	7.5	7 1 1/8	2 1 5/8	3250	1500†	50†
807	6.3	5 3/4	2 1 5/8	6000	750†	30†
813	10	7 1/2	2 9/8	3750	2250†	125†
814	10	7 1 1/8	2 1 5/8	3300	1500†	65†
815	6.3/12.6	4 9/8	2 3/8	4000	500†	25†
828	10	7 1 1/8	2 1 5/8	2700	1500†	80†
829-B	6.3/12.6	4 5/8	2 3/8	8500	750†	45†
832-A	6.3/12.6	3 1 5/8	2 3/8	3500	750†	15†
837	12.6	5 3/4	2 1 5/8	3400	500	12
1613	6.3	3 1/4	1 5/8	2500	350	10
1614	6.3	4 5/8	1 5/8	6050	450†	25†
1619	2.5	4 5/8	1 5/8	4500	400	15
1624	2.5	5 3/4	2 1 5/8	4000	600	25
1625	12.6	5 3/4	2 1 5/8	6000	750†	30†
5618	3.0/6.0	2 5/8	3/4	3600	300†	5†
5763	6	2 5/8	7/8	7000	300	12
5894	6.3/12.6	4 1 5/8	1 1 5/8	8.2§	600	40
6146	6.3	3 1 1/8	1 3 3/2	4.5§	750†	25†
6159	Same as 6146 but has 26.5-volt heater					
6293	See Technical Bulletin					
6417	12.6	2 5/8	7/8	Refer to 5763		
6524	6.3	3 9/8	1 1 1/2	4500	600	25
<b>BEAM POWER TUBES AND PENTODES (WATER-COOLED)</b>						
6448	1.35/2.70	7 3 3/2	11 3/8	6§	7000	26000

•Absolute values for Continuous Commercial Service.  
 †For Intermittent Commercial and Amateur Service.  
 §Grid-Screen Mu-Factor. ☆For Intermittent Mobile Service.

## RCA QUICK-SELECTION GUIDE

### GLOW-DISCHARGE (COLD-CATHODE) TUBES

TYPE	MAXIMUM DIMENSIONS INCHES		OPERATING VOLTS	OPERATING CURRENT DC MA.	
	Length	Diam.		Min.	Max.
<b>VOLTAGE-REGULATOR TYPES</b>					
OA2	2 <sup>5</sup> / <sub>8</sub>	3/4	151	5	30
OA3	4 <sup>1</sup> / <sub>8</sub>	1 <sup>1</sup> / <sub>8</sub>	75	5	40
OB2	2 <sup>5</sup> / <sub>8</sub>	3/4	108	5	30
OC3	4 <sup>1</sup> / <sub>8</sub>	1 <sup>1</sup> / <sub>8</sub>	108	5	40
OD3	4 <sup>1</sup> / <sub>8</sub>	1 <sup>1</sup> / <sub>8</sub>	153	5	40
991	1 <sup>9</sup> / <sub>8</sub>	5/8	59	0.4	2
5651*	2 <sup>1</sup> / <sub>8</sub>	3/4	87	1.5	3.5
6073	2 <sup>5</sup> / <sub>8</sub>	3/4	151	5	30
6074	2 <sup>5</sup> / <sub>8</sub>	3/4	108	5	30

#### MAX. RATINGS

TYPE	DIMENSIONS INCHES		Peak Anode Volts	Peak Cathode Ma.	Av. Cathode Ma.
	Length	Diam.			
<b>RELAY TYPES</b>					
OA4-G	4 <sup>1</sup> / <sub>8</sub>	1 <sup>9</sup> / <sub>16</sub>	225	100	25
IC21	2 <sup>5</sup> / <sub>8</sub>	1 <sup>5</sup> / <sub>16</sub>	180	100	25
5823	2 <sup>1</sup> / <sub>8</sub>	3/4	200	100	25

### RECTIFIERS

TYPE	CATHODE VOLTS	MAXIMUM DIMENSIONS INCHES		MAX. PLATE OR ANODE RATINGS	
		Length	Diam.	Peak Inv. Volts	Amp. Av.
<b>VACUUM TYPES</b>					
2V3-G	2.5	4 <sup>1</sup> / <sub>2</sub>	1 <sup>9</sup> / <sub>16</sub>	16500	0.002
2X2-A	2.5	4 <sup>1</sup> / <sub>2</sub>	1 <sup>9</sup> / <sub>16</sub>	12500	0.0075
5R4-GY	5	5 <sup>5</sup> / <sub>8</sub>	2 <sup>1</sup> / <sub>8</sub>	2800	0.175
217-C	10	8 <sup>1</sup> / <sub>2</sub>	2 <sup>5</sup> / <sub>8</sub>	7500	0.150
579-B	2.5	7 <sup>7</sup> / <sub>8</sub>	2 <sup>1</sup> / <sub>8</sub>	20000	0.025
836	2.5	6 <sup>9</sup> / <sub>16</sub>	2 <sup>7</sup> / <sub>8</sub>	5000	0.25
878	2.5	7 <sup>5</sup> / <sub>8</sub>	1 <sup>1</sup> / <sub>2</sub>	20000	0.005
1616	2.5	6 <sup>1</sup> / <sub>8</sub>	2 <sup>1</sup> / <sub>8</sub>	6000	0.13
5825	1.6	5 <sup>3</sup> / <sub>2</sub>	2 <sup>1</sup> / <sub>8</sub>	60000	0.002
8013-A	2.5	6 <sup>1</sup> / <sub>8</sub>	2 <sup>1</sup> / <sub>8</sub>	40000	0.020
8020	5	8	2 <sup>1</sup> / <sub>8</sub>	40000	0.100

### MERCURY-VAPOR TYPES

575-A	5	11 <sup>1</sup> / <sub>16</sub>	3 <sup>1</sup> / <sub>8</sub>	15000	1.5
673	5	11 <sup>3</sup> / <sub>8</sub>	3 <sup>1</sup> / <sub>8</sub>	15000	1.5
816	2.5	4 <sup>1</sup> / <sub>8</sub>	1 <sup>9</sup> / <sub>16</sub>	7500	0.125
857-B	5	19 <sup>7</sup> / <sub>8</sub>	7 <sup>1</sup> / <sub>8</sub>	22000	10
866-A	2.5	6 <sup>9</sup> / <sub>16</sub>	2 <sup>7</sup> / <sub>8</sub>	10000	0.25
869-B	5	14 <sup>7</sup> / <sub>8</sub>	5 <sup>1</sup> / <sub>8</sub>	20000	2.5
872-A	5	8 <sup>1</sup> / <sub>2</sub>	2 <sup>5</sup> / <sub>8</sub>	10000	1.25
5558	5	7	3	5000	2.5
5561	5	11 <sup>1</sup> / <sub>4</sub>	3 <sup>1</sup> / <sub>8</sub>	3000	6.4
8008	5	8 <sup>3</sup> / <sub>4</sub>	2 <sup>5</sup> / <sub>8</sub>	10000	1.25

\*Voltage-reference type.

## RCA QUICK-SELECTION GUIDE

### RECTIFIERS (cont'd)

TYPE	CATHODE VOLTS	MAXIMUM DIMENSIONS INCHES		MAX. PLATE OR ANODE RATINGS	
		Length	Diam.	Peak Inv. Volts	Avg. Amp.
<b>GAS TYPES</b>					
3B25	2.5	6 <sup>5</sup> / <sub>8</sub>	2 <sup>1</sup> / <sub>8</sub>	4500	0.5
3B28	2.5	6 <sup>3</sup> / <sub>8</sub>	2 <sup>1</sup> / <sub>8</sub>	10000	0.25

### THYRATRONS

TYPE	CATHODE VOLTS	MAXIMUM DIMENSIONS INCHES		Peak Inv. Volts	Avg. Amp.
		Length	Diam.		
<b>TRIODES</b>					
3C23	2.5	6 <sup>1</sup> / <sub>8</sub>	2 <sup>1</sup> / <sub>8</sub>	1250	1.5
627	2.5	7	2 <sup>7</sup> / <sub>8</sub>	2500	0.64
629	2.5	4 <sup>1</sup> / <sub>4</sub>	1 <sup>9</sup> / <sub>16</sub>	350	0.04
676	5	11 <sup>3</sup> / <sub>4</sub>	3 <sup>1</sup> / <sub>2</sub>	2500	6.4
677	5	11 <sup>3</sup> / <sub>4</sub>	3 <sup>1</sup> / <sub>8</sub>	10000	4.0
884	6.3	4 <sup>1</sup> / <sub>8</sub>	1 <sup>9</sup> / <sub>16</sub>	350	0.075
885	2.5	4 <sup>3</sup> / <sub>8</sub>	1 <sup>9</sup> / <sub>16</sub>	350	0.075
5557	2.5	6 <sup>5</sup> / <sub>8</sub>	2 <sup>7</sup> / <sub>8</sub>	5000	0.5
5559	5	7 <sup>1</sup> / <sub>4</sub>	3	1000	2.5
5563-A	5	10 <sup>1</sup> / <sub>2</sub>	2 <sup>7</sup> / <sub>8</sub>	15000	1.6
5728/FG-67	5	7	3	1000	2.5
6130/3C45*	6.3	5 <sup>3</sup> / <sub>8</sub>	1 <sup>9</sup> / <sub>16</sub>	3000	0.045

### TETRODES

2D21	6.3	2 <sup>1</sup> / <sub>8</sub>	3/4	1300	0.1
3D22-A	6.3	4 <sup>5</sup> / <sub>8</sub>	2 <sup>3</sup> / <sub>8</sub>	1500	0.8
105	5	11 <sup>1</sup> / <sub>4</sub>	2 <sup>1</sup> / <sub>2</sub> *	2500	6.4
172	5	10 <sup>3</sup> / <sub>4</sub>	2 <sup>5</sup> / <sub>8</sub> *	2000	6.4
502-A	6.3	2 <sup>5</sup> / <sub>8</sub>	1 <sup>5</sup> / <sub>8</sub>	1300	0.1
672-A	5	8 <sup>1</sup> / <sub>4</sub>	2 <sup>5</sup> / <sub>8</sub>	2500	3.2
2050	6.3	4 <sup>1</sup> / <sub>8</sub>	1 <sup>9</sup> / <sub>16</sub>	1300	0.1
5560	5	7 <sup>1</sup> / <sub>2</sub>	2 <sup>1</sup> / <sub>4</sub> *	1000	2.5
5696	6.3	1 <sup>3</sup> / <sub>4</sub>	3/4	500	0.025
6012	6.3	4 <sup>1</sup> / <sub>4</sub>	1 <sup>3</sup> / <sub>2</sub>	1300	0.5

### IGNITRONS

TYPE	Size	MAX. DIMENSIONS INCHES		KVA Demand	MAX. ANODE RATINGS†		Corresponding Peak Inv. Volts	MAX. ANODE RATING*†
		Approx. Length	Radius		Av. Anode Amp.	Avg. Amp.		
5550	(A)	10	1 <sup>3</sup> / <sub>8</sub>	300	12.1	.....	.....	
5551	(B)	13 <sup>1</sup> / <sub>2</sub>	2 <sup>7</sup> / <sub>8</sub>	600	30.2	.....	.....	
5552	(C)	14 <sup>1</sup> / <sub>2</sub>	3 <sup>5</sup> / <sub>8</sub>	1200	75.6	.....	.....	
5553-A	(D)	20	4 <sup>1</sup> / <sub>2</sub>	2400	192.	.....	.....	
5554		17 <sup>1</sup> / <sub>2</sub>	3 <sup>1</sup> / <sub>8</sub>	.....	.....	2100	75	
5555		18 <sup>1</sup> / <sub>2</sub>	4 <sup>9</sup> / <sub>16</sub>	.....	.....	2100	150	
5822		14 <sup>1</sup> / <sub>2</sub>	3 <sup>5</sup> / <sub>8</sub>	.....	.....	1500▲	56▲	

\*Maximum Radius. ††For welder-control service.

\*†For power rectification. •For operation up to 50000 feet.

▲For frequency-changer resistance-welding service.

## RCA QUICK-SELECTION GUIDE

### PHOTOTUBES

TYPE	MAX. DIMENSIONS INCHES		MAX. ANODE-SUPPLY VOLTS	LUMINOUS SENSITIVITY MICROAMP. PER LUMEN	SPECTRAL RESPONSE
	Length	Diam.			
<b>GAS TYPES</b>					
1P29	4 $\frac{1}{8}$	1 $\frac{1}{8}$	100	40	S-3
1P37	4 $\frac{1}{8}$	1 $\frac{1}{8}$	100	135	S-4
1P40	Same as 930 except for non-hygroscopic base.				
1P41	2 $\frac{1}{5}$	1 $\frac{1}{8}$	90	90	S-1
868	4 $\frac{1}{8}$	1 $\frac{1}{8}$	100	90	S-1
918	4 $\frac{1}{8}$	4 $\frac{1}{8}$	90	150	S-1
920 $\Pi$	4	1 $\frac{3}{16}$	90	100	S-1
921	1 $\frac{3}{16}$	1 $\frac{3}{16}$	90	135	S-1
923	3 $\frac{9}{16}$	1 $\frac{3}{16}$	90	135	S-1
924	2 $\frac{1}{16}$	1 $\frac{1}{8}$	90	90	S-1
927	2 $\frac{1}{16}$	1 $\frac{1}{8}$	90	125	S-1
928	3 $\frac{1}{16}$	1 $\frac{3}{16}$	90	65	S-1
930	3 $\frac{1}{16}$	1 $\frac{3}{16}$	90	135	S-1
5581	3 $\frac{1}{16}$	1 $\frac{3}{16}$	100	135	S-4
5582	1 $\frac{3}{16}$	1 $\frac{3}{16}$	100	120	S-4
5583	2 $\frac{1}{16}$	1 $\frac{1}{8}$	100	135	S-4
5584 $\Pi$	4	1 $\frac{1}{8}$	100	120	S-4
6405/1640	4 $\frac{7}{8}$	1 $\frac{1}{8}$	90	135	S-1

### VACUUM TYPES

TYPE	MAX. DIMENSIONS INCHES		MAX. ANODE-SUPPLY VOLTS	LUMINOUS SENSITIVITY MICROAMP. PER LUMEN	SPECTRAL RESPONSE
	Length	Diam.			
<b>GAS TYPES</b>					
1P39	Same as 929 except for non-hygroscopic base.				
1P42	1 $\frac{3}{16}$	1/4	180	37	S-9
917	4 $\frac{7}{8}$	1 $\frac{1}{8}$	500	20	S-1
919	4 $\frac{7}{8}$	1 $\frac{1}{8}$	500	20	S-1
922	1 $\frac{3}{16}$	2 $\frac{9}{16}$	500	20	S-1
925	2 $\frac{3}{8}$	1 $\frac{3}{16}$	250	20	S-1
926	1 $\frac{3}{16}$	2 $\frac{3}{16}$	500	6.5	S-3
929	3 $\frac{1}{16}$	1 $\frac{3}{16}$	250	45	S-4
934	2 $\frac{1}{16}$	1 $\frac{1}{8}$	250	30	S-4
935	4 $\frac{1}{4}$	1 $\frac{9}{16}$	250	35	S-5
5652*	2 $\frac{7}{8}$	1 $\frac{3}{16}$	250	45	S-4
5653	3 $\frac{1}{16}$	1 $\frac{3}{16}$	250	45	S-4
6570	4 $\frac{7}{8}$	1 $\frac{1}{8}$	500	30	S-1

### MULTIPLIER PHOTOTUBES

TYPE	MAX. DIMENSIONS INCHES		MAX. ANODE-SUPPLY VOLTS	LUMINOUS SENSITIVITY MICROAMP. PER LUMEN	SPECTRAL RESPONSE
	Length	Diam.			
1P21	3 $\frac{1}{16}$	1 $\frac{5}{16}$	1250	80•	S-4
1P22	3 $\frac{1}{16}$	1 $\frac{5}{16}$	1250	0.6•	S-8
1P28	3 $\frac{1}{16}$	1 $\frac{5}{16}$	1250	50•	S-5
931-A	3 $\frac{1}{16}$	1 $\frac{5}{16}$	1250	24•	S-4
2020	5 $\frac{1}{16}$	2 $\frac{1}{4}$	1500	6••	S-11
5819	5 $\frac{1}{16}$	2 $\frac{1}{4}$	1250	25•	S-11
6199	4 $\frac{9}{16}$	1 $\frac{9}{16}$	1250	27•	S-11
6217	5 $\frac{1}{16}$	2 $\frac{1}{4}$	1250	24•	S-10

¶Twin type. \*Twin type; each unit has a composite anode-cathode. •With Supply Volts=1000. ••With Supply Volts=1250.

## RCA QUICK-SELECTION GUIDE

### MULTIPLIER PHOTOTUBES (cont'd)

TYPE	MAX. DIMENSIONS INCHES		MAX. ANODE-SUPPLY VOLTS	LUMINOUS SENSITIVITY MICROAMP. PER LUMEN	SPECTRAL RESPONSE
	Length	Diam.			
6323▶	3 $\frac{1}{16}$	1 $\frac{5}{16}$	1250	35•	S-4
6328▶	3 $\frac{1}{8}$	1 $\frac{5}{16}$	1250	35•	S-4
6342	5 $\frac{1}{16}$	2 $\frac{1}{4}$	1500	7.5••	S-11
6372	7 $\frac{3}{4}$	2 $\frac{9}{16}$	1200	20	S-11
6472▶	2 $\frac{3}{4}$ °	1 $\frac{5}{16}$	1250	35•	S-4
6655	5 $\frac{1}{16}$	2 $\frac{1}{4}$	1250	25•	S-11

### CATHODE-RAY TUBES‡

TYPE	MAX. OVER-ALL LENGTH	MIN. SCREEN DIAM.	MAX. FINAL ELEC-TRODE VOLTS	DEFLECTION FACTOR VOLTS DC/IN†	
	Inches	Inches	VOLTS	DJ <sub>1</sub> -DJ <sub>2</sub> ††	DJ <sub>3</sub> -DJ <sub>4</sub> *‡

### OSCILLOGRAPH TYPES:

#### Medium Persistence, Electrostatic Focus:

2API-A	7 $\frac{5}{8}$	1 $\frac{3}{4}$	1000	184-276	157-235
2BPI	7 $\frac{1}{16}$	1 $\frac{3}{4}$	2500	115-155	74-100
3API-A	11 $\frac{7}{8}$	2 $\frac{1}{2}$	1500	61-91	59-89
3BPI-A	10 $\frac{1}{4}$	2 $\frac{3}{4}$	2000	80-120	59-89
3JPI□	10 $\frac{1}{4}$	2 $\frac{3}{4}$	4000	85-115	63-85
3KPI	11 $\frac{3}{4}$	2 $\frac{3}{4}$	2500	50-68	38-52
3MPI	8 $\frac{1}{4}$	2 $\frac{3}{4}$	2500	115-145	110-140
3RPI	9 $\frac{3}{8}$	2 $\frac{3}{4}$	2500	73-99	52-70
3RPI-A	Same as type 3RPI, except has flat face.				
5ABPI□	17 $\frac{1}{8}$	4 $\frac{9}{16}$	6000	27-36	18-24
5ABP4	Same as type 5ABPI, except for phosphor.				
5BPI-A	17 $\frac{1}{8}$	4 $\frac{1}{2}$	2000	35-49	32-45
5CPI-A□	17 $\frac{1}{8}$	4 $\frac{1}{2}$	4000	39-53	33-45
5UPI	15 $\frac{1}{8}$	4 $\frac{1}{2}$	2500	28-39	23-31
7CPI	13 $\frac{1}{16}$	6 $\frac{1}{2}$	8000	**	**
7VPI	14 $\frac{7}{8}$	6	4000	31-41	25-34
902-A	7 $\frac{5}{8}$	1 $\frac{3}{4}$	600	183-277	160-235
914-A	20 $\frac{7}{16}$	8 $\frac{1}{4}$	7000	38-54	30-44

‡All have 6.3-v heaters except: the 3API-A and 914-A which have 2.5-v heaters; and the 7NP4 and 7WP4 which have 6.6-v heaters. †Per KV of final electrode volts. ††Deflecting electrodes nearer the face. \*Deflecting electrodes nearer the base. □Post-deflection accelerator type. \*\*Magnetic deflection. ▶For head-light dimming device. °Excluding flexible leads. •With Supply Volts = 1000. ••With Supply Volts = 1250.



## RCA QUICK-SELECTION GUIDE

### CATHODE-RAY TUBES (cont'd)

TYPE	MAX. OVER-ALL LENGTH Inches	MIN. SCREEN DIAM. Inches	MAX. FINAL ELEC-TRODE VOLTS	DEFLECTION FACTOR VOLTS DC/IN†	DJ <sub>1</sub> -DJ <sub>2</sub> ††	DJ <sub>3</sub> -DJ <sub>4</sub> *
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#### Short Persistence:

2BP11	Same as type 2BP1, except for phosphor.					
3KP11	Same as type 3KP1, except for phosphor.					
5ABP11	Same as type 5ABP1, except for phosphor.					
5CP11-A	Same as type 5CP1-A, except for phosphor.					
5UP11	Same as type 5UP1, except for phosphor.					
908-A	Same as type 3AP1-A, except for phosphor.					

#### Medium-Long Persistence:

5CP12	Same as type 5CP1-A, except for phosphor.					
5FP14	Same as type 5FP7-A, except for phosphor.					
7MP14	Same as type 7MP7, except for phosphor.					

#### Long Persistence:

3FP7-A ♦	10 1/4	2 3/4	4000	106-144	77-104	
3JP7	Same as type 3JP1, except for phosphor.					
3KP7	Same as type 3KP1, except for phosphor.					
5ABP7	Same as type 5ABP1, except for phosphor.					
5CP7-A	Same as type 5CP1-A, except for phosphor.					
5FP7-A	11 1/2	4 1/4	8000	Mag. focus & deflec.		
5UP7	Same as type 5UP1, except for phosphor.					
7BP7-A	13 5/8	6	8000	Mag. focus & deflec.		
7MP7	13 1/8	6	8000	Mag. focus & deflec.		
10KP7	18	9	10000	Mag. focus & deflec.		
12DP7-A	20 1/8	10	10000	Mag. focus & deflec.		
12DP7-B	Same as 12DP7-A, but has filterglass faceplate.					
16ADP7	22	14 3/8	14000	Mag. focus & deflec.		

TYPE	MAX. OVER-ALL LENGTH Inches	MIN. SCREEN DIAM. Inches	MAX. FINAL ELEC-TRODE VOLTS	MAX. FOCUS-ING ELEC-TRODE VOLTS	DEFLEC-TION ANGLE Approx. Degrees
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#### FLYING-SPOT TYPES:

5AUP24#	12 7/8	4 1/4	27000	6000	50
5WP15	11 1/8	4 1/4	27000	6000	50
5ZP16	14 3/4	4 1/4	27000	7000	40

#### TRANSCRIBER KINESCOPE:

5WP11	11 1/8	4 1/4	27000	6000	50
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#### VIEW-FINDER KINESCOPIES:

5AYP4#	11 1/8	4 1/4	10000	1500	53
5FP4-A	11 1/2	4 1/4	8000	5	53

†All have 6.3v heaters except: the 3AP1-A and 914-A which have 2.5-v heaters; and the 7NP4 and 7WP4 which have 6.6-v heaters.

♦Electrostatic focus. #Aluminized. †, ††, \* See preceding page.

## RCA QUICK-SELECTION GUIDE

### CATHODE-RAY TUBES ‡ (cont'd)

TYPE	MAX. OVER-ALL LENGTH Inches	MIN. SCREEN DIAM. Inches	MAX. FINAL ELEC-TRODE VOLTS	MAX. FOCUS-ING ELEC-TRODE VOLTS	DEFLEC-TION ANGLE Approx. Degrees
<b>PROJECTION KINESCOPIES (For Theater Television):</b>					
7NP4#	20 1/8	5x3 3/4	80000	20000	35
7WP4▲#	20 1/8	5x3 3/4	80000	20000	35
<b>MONITOR KINESCOPIES:</b>					
7CP4	13 1/2	6 1/2	8000	2400	57
7QP4	13 1/4	6	10000	5	52
7TP4#	13 1/2	6	12000	2000	50
10SP4#	17	9 1/8	14000	2700	50

‡All have 6.3-v. heaters except: the 3AP1-A and 914-A which have 2.5-v. heaters; and the 7NP4 and 7WP4 which have 6.6-v. heaters.

#Projection-throw distance = 60 ft. ▲Projection-throw distance = 80 ft. §Magnetic focus. #Aluminized.

### CAMERA TUBES

#### ICONOSCOPIES:

1850-A—For pick-up from motion-picture film or slides. Utilizes electrostatic focus and magnetic deflection. Has high ratio of signal to noise but relatively low sensitivity. Response covers entire visible spectrum.

5527 For industrial and laboratory TV applications. Features small size and moderate sensitivity. Utilizes electrostatic focus and deflection.

#### IMAGE ORTHICONS:

5820 For both outdoor and studio pickup. Has exceptional sensitivity combined with spectral response approaching that of the eye. Very stable in performance at all incident light levels on the object ranging from bright sunlight to a deep shadow. Utilizes magnetic focus and deflection.

6474/ For use in color cameras utilizing the method of simultaneous pickup of the studio or outdoor scene to be televised. Has exceptional sensitivity combined with spectral response approaching that of the eye. Utilizes magnetic focus and deflection.

#### VIDICONS:

6198 For use in industrial TV applications. Features small size and simplicity. Employs as its light-sensitive element a photoconductive layer having spectral response approaching that of the eye. Has very good sensitivity. Utilizes magnetic focus and deflection.

6326 Similar to 6198 but intended primarily for use in TV cameras for motion-picture film, transparencies, and opaques. Gives excellent results with any TV film projector.

## RCA QUICK-SELECTION GUIDE

### CAMERA TUBES (cont'd)

#### MONOSCOPES:

- 2F21 A 5" type with Indian-head test pattern for supplying signal to test video performance of TV receivers and transmitters. Utilizes electrostatic focus and magnetic deflection.
- 1699 Custom-built type like the 2F21 except that its pattern is individually styled to customer requirements.

### COMPUTER STORAGE TUBE

- 6571 Single-beam type. For use in binary-digital computer systems.

### VACUUM-GAUGE TUBES

- 1945 Hydrogen-Sensitive, Ionization Type. For locating minute leaks in vacuum enclosures.
- 1946 Thermocouple Type. For measuring gas pressures in the range from 1 mm to 0.0001 mm of mercury (1000 to 0.1 micron).
- 1947 Pirani Type. For measuring gas pressures in the range from 0.5 mm to 0.01 mm of mercury (500 to 10 microns).
- 1949 Ionization Type, hard-glass construction. For measuring gas pressures below 0.0001 mm of mercury (0.1 micron).
- 1950 Ionization Type. Similar to type 1949, but soft-glass construction.

### "SPECIAL RED" TUBES

Designed and manufactured for critical industrial applications where 10000-hour life, rigid construction, extreme uniformity and exceptional stability are paramount.

- 5690 Full-Weave Vacuum Rectifier. Features two separate diode units of the indirectly-heated-cathode type. Max. peak inverse plate volts, 1120; max. peak plate current per plate, 375 ma.; max. dc output current per plate, 75 ma.
- 5691 High-Mu Twin Triode similar to type 6SL7-GT.
- 5962 Medium-Mu Twin Triode similar to type 6SN7-GT.
- 5693 Sharp-Cutoff Pentode similar to type 6SJ7.

### "PREMIUM" TUBES

For special applications where dependable performance under shock and vibration is a prime consideration.

#### MINIATURE TYPES

- 5654 Sharp-Cutoff Pentode. "Premium" version of type 6AK5 for rf and if broad-band applications.
- 5726 Twin Diode. "Premium" version of type 6AL5-W for detector service in circuits utilizing wide-band amplifiers.
- 5751 High-Mu Twin Triode. "Premium" type similar to 12AX7 for applications such as phase inverters, and in numerous industrial control devices.
- 5814-A—Medium-Mu Twin Triode. "Premium" type similar to

## RCA QUICK-SELECTION GUIDE

### "PREMIUM" TUBES (cont'd)

#### MINIATURE TYPES (cont'd)

- 12AU7 for applications such as mixers, oscillators, phase inverters, and in numerous industrial control devices.
- 6073 Voltage Regulator, Glow-Discharge Type having very stable characteristics. "Premium" version of type OA2.
- 6074 Voltage Regulator, Glow-Discharge Type having very stable characteristics. "Premium" version of type OB2.
- 6101 Medium-Mu Twin Triode. Especially designed as a class A amplifier in mobile and aircraft equipment and in industrial application where uniformity of characteristics and dependability are important.

#### SUBMINIATURE TYPES

- 5718 Medium-Mu Triode. "Premium" type similar to miniature type 6C4 for use as a power amplifier and oscillator. Will give a useful power output of nearly one watt at a frequency of 500 megacycles per second.
- 5719 High-Mu Triode. "Premium" type for use as an audio amplifier in mobile and aircraft receivers. In audio service as a resistance-coupled amplifier, it is capable of providing high voltage gain.
- 5840 Sharp-Cutoff Pentode. "Premium" type similar to miniature type 6AK5 for use as an rf or if amplifier in high-frequency broad-band circuits in mobile and aircraft receivers. As an rf amplifier, the 5840 can be used at frequencies up to about 400 Mc.

### TYPES FOR SPECIAL APPLICATIONS

#### ACORNS

- 6F4 Oscillator Triode. Heater-cathode type. For frequencies up to 1200 Mc.
- 6L4 U-H-F Oscillator Triode. Heater-cathode type. For frequencies up to 1200 Mc.
- 954 Detector Amplifier Pentode. Heater-cathode type. For frequencies up to 430 Mc.
- 955 Detector Amplifier Oscillator Triode. Heater-cathode type. For frequencies up to 600 Mc.
- 956 Super-Control R-F Amplifier Pentode. Remote cut-off, heater-cathode type. For frequencies up to 430 Mc.
- 957 Detector Amplifier Oscillator Triode. Filament volts, 1.25. Amplification factor, 13.5.
- 958-A—Amplifier Triode. Filament volts, 1.25. For oscillator and r-f amplifier service.
- 959 Detector Amplifier Pentode. Filament volts, 1.25 for r-f amplifier and detector service.
- 9004 U-H-F Diode. Heater-cathode type. For u-h-f service as a rectifier, detector or measuring device. Resonant frequency, about 850 Mc.

## RCA QUICK-SELECTION GUIDE

### TYPES FOR SPECIAL APPLICATIONS (cont'd)

#### ACORNS (cont'd)

9005 U-H-F Diode. Heater-cathode type. For u-h-f service as a rectifier, detector or measuring device. Resonant frequency, about 1500 Mc.

#### MINIATURES

3A4 Power Amplifier Pentode. Filament volts, 1.4/2.8. A-F power output of 700 milliwatts.

3A5 H-F Twin Triode. Class C power output of 2 watts at 40 Mc.

6AS6 Sharp-cutoff Pentode. 7-pin miniature type. Grids No. 1 and No. 3 can each be used as independent control electrodes. For use in gated amplifier circuits, delay circuits, gain-controlled amplifiers, and mixer circuits.

6J4 U-H-F Amplifier Triode. Cathode-drive amplifier. For frequencies up to 500 Mc.

12AY7—Medium-Mu Twin Triode. 9-pin Miniature Type. For use in the first stages of high-gain audio-frequency amplifiers, where reduction of microphonics, leakage noise, and hum are primary considerations.

26A6 RF Amplifier Pentode. Remote-cutoff, heater-cathode type. Useful in aircraft receivers operating directly from 12-cell storage batteries.

26C6 Duplex-Diode Triode. Heater-cathode type. Useful in aircraft receivers operating directly from 12-cell storage batteries.

26D6 Pentagrid Converter. Heater-cathode type. Useful in aircraft receivers operating directly from 12-cell storage batteries.

1654 Half-Wave High-Vacuum Rectifier. Max. peak inverse plate volts, 4300. Max. average plate current, 1 ma.

5879 Sharp-Cutoff Pentode. 9-pin miniature type. Intended for use as an audio amplifier in applications requiring reduced microphonics, leakage noise, and hum. Especially useful in the input stages of medium-gain public address systems, home sound recorders, and general-purpose audio systems.

9001 Detector Amplifier Pentode. A sharp cut-off pentode for use as an r-f amplifier or detector in u-h-f service.

9002 U-H-F Triode. Useful as a u-h-f detector, amplifier and oscillator.

9003 Super-Control R-F Amplifier Pentode. Remote cut-off type useful as a mixer or as an r-f or i-f amplifier in u-h-f services.

9006 U-H-F Diode. Heater-cathode type. Resonant frequency, about 700 Mc. For u-h-f service as a rectifier, detector, or measuring device.

## RCA QUICK-SELECTION GUIDE

### TYPES FOR SPECIAL APPLICATIONS (cont'd)

#### METAL, GT, AND OTHER GLASS TYPES

2C40 Lighthouse Triode. A high frequency amplifier and oscillator for use up to 3000 Mc. Plate dissipation, 6.5 watts max.,  $\mu = 36$ , gm = 4800 micromhos.

2C43 Lighthouse Triode. Has the same design features as the 2C40 except for a plate dissipation of 12 watts max.,  $\mu = 48$ , and gm = 8000 micromhos.

6AG7-Y—Power Amplifier Pentode. Similar to type 6AG7 except for micanol base.

6AS7-G—Low-Mu Twin Triode. Heater-cathode type. Has high perveance, a  $\mu$  of 2, and an ac plate resistance of 280 ohms. For use as a regulator tube in dc power supplies, and in projection television booster scanning applications.

6SJ7-Y—Triple-Grid Detector Amplifier. Same as type 6SJ7 except for micanol base.

12A6 Beam Power Amplifier. Metal type. Designed particularly for aircraft applications. Heater volts, 12.6. Mcx. plate volts, 250.

12L8GT—Twin-Pentode Power Amplifier. Heater volts, 12.6. Max. plate volts, 180. Plate dissipation per plate, 2.5 watts. Similar to type 1644.

12SW7—Duplex-Diode Triode. Heater-cathode type. Useful in aircraft receivers.

12SX7-GT—Twin-Triode Amplifier. Heater-cathode type. Useful in aircraft receivers.

12SY7—Pentagrid Converter. Single-ended metal type. Useful in aircraft receivers.

26A7-GT—Twin A-F Beam Power Amplifier. Heater volts, 26.5. Max. plate volts, 50. For 12-cell battery service.

1609 Amplifier Pentode. For low-microphonic applications. Filament volts, 1.1. Max. plate volts, 135.

1612 Pentagrid Amplifier. For low-microphonic applications. Heater volts, 6.3. Max. plate volts, 250. Similar to type 6L7.

1620 Triple-Grid Detector Amplifier. For low-microphonic applications. Heater volts, 6.3. Max. plate volts, 250. Similar to type 6J7.

1621 Power Amplifier Pentode. Metal type. For applications requiring continuity of service. Heater volts, 6.3. In push-pull service: Max. plate volts, 300; a-f power output, 5 watts.

1622 Beam Power Amplifier. Metal type. For applications requiring continuity of service. Heater volts, 6.3. In push-pull service: Max. plate volts, 300; power output, 10 watts.

1629 Electron-Ray Tube. Indicator type. Similar to type 6E5 except for a 12.6-volt heater and an octal base.

## RCA QUICK-SELECTION GUIDE

### TYPES FOR SPECIAL APPLICATIONS (cont'd)

#### METAL, GT, AND OTHER GLASS TYPES (cont'd)

- 1631 Beam Power Amplifier. Metal type. Similar to type 6L6 except for a 12.6-volt heater. Max. plate dissipation, 16 watts.
- 1632 Beam Power Amplifier. Metal type. Similar to type 25L6 except for 12.6-volt heater, and plate voltage and dissipation ratings.
- 1634 Twin-Triode Amplifier. Single-ended metal type. Same as 12SC7 but especially suited for applications requiring matched triode units.
- 1635 Class B Twin Amplifier. Heater-cathode type. For audio amplifier applications.
- 5890 Low-current beam pentode of the remote-cutoff type intended particularly for the regulation of high-voltage dc power supplies.
- 6026 Oscillator Triode. Subminiature type intended for transmitting service in radiosonde applications at 400 Mc.
- 6080 Low-Mu Twin Triode. Similar to type 6AS7-G in characteristics, but is smaller in size. Intended for applications critical as to shock and vibration, and requiring reduced susceptibility to electrolysis.
- 6082 Same as 6080 but has 26.5-volt heater. Intended for use in aircraft receivers.

#### UHF "PENCIL" TUBES

- 5675 Medium-Mu Triode. For use in cathode-drive circuits at frequencies up to 3000 Mc/s. As a local oscillator, it is capable of giving a power output of 475 milliwatts at 1700 Mc/s.
- 5794 Fixed-Tuned Oscillator Triode. Intended for transmitting service in radiosonde application at 1680 Mc.
- 5876 High-Mu Triode. General purpose type. For use in cathode-drive circuits as an r-f amplifier, i-f amplifier, or mixer tube up to 1000 Mc/s; as a frequency multiplier up to 1500 Mc/s; and as an oscillator up to 1700 Mc/s. Delivers useful output of 5 watts at 500 Mc/s as an unmodulated Class C r-f amplifier, and 750 milliwatts as an oscillator at 1700 Mc/s.
- 5893 Medium-Mu Triode. Designed for use in cathode-drive circuits as a plate-pulsed oscillator at 3300 Mc/s and as a cw oscillator, rf power amplifier, and frequency doubler up to 1000 Mc/s.
- 6173 UHF Diode. For use in pulse detection and pulse-power-measuring service. May be operated at frequencies as high as 3300 Mc.

## RCA QUICK-SELECTION GUIDE

### UHF "PENCIL" TUBES (cont'd)

- 6263 Medium-Mu Triode. For use in cathode-drive, rf power amplifiers and oscillators in mobile transmitters operating up to 60000 feet without pressurized chambers. Under ICAS conditions, gives a useful power output of about 10 watts at 500 Mc. in unmodulated class C service with a plate input of only 14 watts.
- 6264 Like the 6263 but has a mu of 40. For frequency-amplifier service.

### TYPES FOR ELECTRONIC-COMPUTER AND OTHER

#### "ON-OFF" CONTROL APPLICATIONS

- 5915 Pentagrid Amplifier. 7-pin miniature type designed for use as a gated amplifier in electronic computers. Grids No. 1 and No. 3 can each be used as independent control electrodes.
- 5963 Medium-Mu Twin Triode. 9-pin miniature type intended for frequency-divider circuits in computers. Separate terminal for each cathode, and a mid-tapped heater for 6.3-volt or 12.6-volt operation.
- 5964 Medium-Mu Twin Triode. 7-pin miniature type intended for frequency-divider circuits in computers.
- 5965 Medium-Mu Triode. 9-pin miniature type. Balance of cutoff bias between the two units is closely controlled.
- 6197 Sharp-cutoff Power Pentode. 9-pin miniature type with a transconductance of 11000 micromhos. For frequency-divider and pulse amplifier service.
- 6211 Same as 5963 except that balance of cutoff bias between the two units is closely controlled.

#### KLYSTRONS

- 2K26 Single-resonator, reflex type oscillator for operation in the frequency range from 6250 to 7050 megacycles. It has a useful power output of about 100 milliwatts.

#### MECHANO-ELECTRONIC TRANSDUCER

- 5734 Triode type for applications involving the measurement of mechanical vibration. Has a minimum free cantilever resonance of the internal section of the plate shaft of 12000 cycles per second.

#### MAGNETRONS

- 2J41 Low-power, frequency-stabilized type with an integral magnet. Intended primarily for use as a pulsed oscillator at 9310 Mc in beacon service. Minimum peak stabilized power output of 300 watts at 9310 Mc and a duty cycle of 0.003.

# RCA QUICK-SELECTION GUIDE

## MAGNETRONS (cont'd)

- 2J50 Internal resonant-circuit type intended for pulsed-oscillator service, such as radar, at a fixed frequency of 8825 Mc. Will give a peak power output of 45 kilowatts when operated at 12000 peak anode volts.
- 4J50 Internal resonant-circuit type with an integral magnet. Intended for pulsed-oscillator service, such as radar, at a fixed frequency of  $9375 \pm 30$  Mc. Will give a peak power output of 240 kilowatts when operated at 23000 peak anode volts.
- 4J52 Internal resonant-circuit type with magnet attached. Intended for pulsed-oscillator service at a fixed frequency of 9375 Mc. Will give a peak power output of 80 kilowatts when operated at 15000 peak anode volts.
- 6521 Internal-resonant circuit type with an integral magnet. Designed and conservatively rated for long, reliable performance as a pulsed oscillator at a fixed frequency of 5400 Mc in weather radar equipment.

## SEMICONDUCTOR DEVICES

### TRANSISTORS

#### Junction Types

- 2N77 } Germanium p-n-p alloy types. For low-power audio applications where extreme stability and excellent uniformity of characteristics are paramount. The 2N77 and 2N105 are especially useful in hearing-aid applications.
- 2N104 }
- 2N105 }
- 2N109—Germanium p-n-p alloy type. For large-signal audio applications such as class B push-pull power output stages of battery-operated portable radio receivers and audio amplifiers. Also useful as a high-gain class A driver. Provides high power sensitivity.

### CRYSTAL DIODES

#### Germanium Point-Contact Types

- 1N34-A—General-purpose type for low-power rectification in applications such as isolating, clipping, and switching circuits, as well as in certain meter circuits.
- 1N38-A } Large-signal types having high peak inverse voltage ratings. They are especially useful in electronic computers, clamping, circuits, dc restorer circuits, and in high voltage probes.
- 1N55-A }
- 1N58-A }
- 1N54-A—High-back-resistance type for use in clipping circuits, high-impedance high-voltage probes, dc restorer circuits, and high-impedance detector circuits.
- 1N56-A—High-conduction type featuring exceptionally low dynamic impedance. It is especially useful for limiter service in frequency modulation receivers.

# RCA INTERCHANGEABILITY DIRECTORY OF TUBES FOR COMMUNICATIONS AND INDUSTRY

## Direct Replacement Types

RCA types shown below are direct replacements under all circumstances for corresponding types to be replaced.

Type to be Replaced	Replace by RCA Type	Type to be Replaced	Replace by RCA Type
OA3/VR75	OA3	CE-23(A-D)	923
OC3/VR105	OC3	PJ-23	868
OD3/VR150	OD3	CE-25(A-D)	927
CE-1(A-D)	868, 918	RK-25	802
1P32	927	RK-25B	802
2AP1	2AP1-A	CE-28(A-D)	928
2B4	885	RK-28	803
ML-381	2C39-A	RK-28A	803
3X100A11	2C39-A	CE-29(A-D)	929, 1P39
ZP572	2C39-A	CE-30(A-D)	930, 1P40
2X2/879	2X2-A	CE-30V	925
3-50G2	834	RK-30	800
3AP1	3AP1-A	FG-32	5558
3BP1	3BP1-A	CE-34	934
3C45	6130/3C45	RK-39	807
3D22	3D22-A	CE-41	921
4D21	4-125A/4D21	CE-42	922
4-250A	4-250A/5D22	RK-44	837
4-400A	4-250A/5D22	RK-47	814
5BP1	5BP1-A	UH-50	834
5CP1	5CP1-A	R51A	927
5CP7	5CP7-A	CE-55	924
5D22	4-250A/5D22	FG-57	5559
5FP7	5FP7-A	RK-57	805
5HP1-A	5BP1-A*	RK-58	838
7BP7	7BP7-A	CE-59	5581
PJ-8	5556	R59A	868, 918
G9	868	R60A	920
BW-11	834	HY-61/807	807
CE-11V(A-D)	917	R61A	930
RK-11	1623	CE-64	5583
12DP7	12DP7-A	FG-67	5728/FG-67
FG-17	5557	VR75-30	OA3
CE-20	927	FG-95	5560
RK-20A	804	CE-98	5582
CE-21(A-D)	920	FG-104	5561

\*Except in high-altitude service.

**RCA INTERCHANGEABILITY DIRECTORY OF TUBES  
FOR COMMUNICATIONS AND INDUSTRY**

**Direct Replacement Types (cont'd)**

RCA types shown below are direct replacements under all circumstances for corresponding types to be replaced.

Type to be Replaced	Replace by RCA Type	Type to be Replaced	Replace by RCA Type
VR105-30	OC3	WT-210-0070	5550
HF120	211	WT-210-0071	5551
VR150-30	OD3	WT-210-0072	5552
WT-210-0001	2D21	WT-210-0073	5553
WT-210-0003	884	WT-210-0074	105
WT-210-0004	2050	WT-210-0078	172
WT-210-0006	6H6	WT-210-0079	105
WT-210-0008	866-A	WT-210-0081	6SJ7
WT-210-0009	84/6Z4	WT-210-0082	6V6
WT-210-0011	OC3	WT-210-0083	7K7
WT-210-0012	80	WT-210-0084	6N7-GT
WT-210-0013	5Z3	WT-210-0085	50B5
WT-210-0015	5557	WT-210-0086	833-A
WT-210-0018	OD3	WT-210-0087	6K8-GT
WT-210-0019	83	WT-210-0088	6J5-GT
WT-210-0021	6X5	WT-210-0089	6G6-G
WT-210-0025	117Z6-GT	WT-210-0090	6C6
WT-210-0027	872-A	WT-210-0091	0A4-G
WT-210-0028	3Q5-GT	211-D	211
WT-210-0029	6C5	FG-235A	5552
WT-210-0031	902-A	FG-238B	5555
WT-210-0037	117L7/M7-GT	242A	211
WT-210-0038	172	242B	211
WT-210-0040	6X4	WT-245	884
WT-210-0042	5Y3-GT	WT-246	2050
WT-210-0044	575-A	FG-258A	5553
WT-210-0045	892	FG-259B	5554
WT-210-0048	5U4-G	WT-261	6H6
WT-210-0052	2API-A	WE-261A	835
WT-210-0053	3API-A	WT-262	866-A
WT-210-0056	5559	WT-263	6Z4
WT-210-0057	5560	WT-269	OC3
WT-210-0058	676	WT-270	80
WT-210-0060	OZ4	WT-270X	5Z3
WT-210-0061	117N7-GT	FG-271	5551
WT-210-0062	5557	WT-272	5557
WT-210-0069	5557	WE-274B	5R4-GY

**RCA INTERCHANGEABILITY DIRECTORY OF TUBES  
FOR COMMUNICATIONS AND INDUSTRY**

**Direct Replacement Types (cont'd)**

RCA types shown below are direct replacements under all circumstances for corresponding types to be replaced.

Type to be Replaced	Replace by RCA Type	Type to be Replaced	Replace by RCA Type
WT-294	0D3	ML-728	5557
WE-295A	203-A	WL-735	868
WT-301	83	801	801-A
UE-303A	203-A	811	811-A
WE-304B	834	812	812-A
F-307A	207	829	829-B
WT-308	6X5-GT	829-A	829-B
CE-309	5557	832	832-A
CE-311	3C23	833	833-A
UE-311	211	C-833	833-A
UE-311C	835	UH-50	834
UE-317C	217-C	857	857-B
WE-322A	803	862	862-A
WE-350A	807	866	866-A
375-A	575-A	866-A/866	866-A
WT-377	117Z6-GT	869-A	869-B
ML-381	2C39-A	872	872-A
WT-389	3Q5-GT	872-A/872	872-A
WT-390	6C5	F-872B	872-A
FJ-401	1P29	879	2X2-A
WE-403A	6AK5	889	889-A
GL-415	5550	893	893-A
GL-451	8020	902	902-A
ZP-572	2C39-A	UE-905	805
WT-606	2D21	905	905-A
WL-630	2050	906-PI	3API-A
WL-631	5559	908	908-A
KU-634	677	914	914-A
WL-651/656	5552	931	931-A
WL-652/657	5551	UE-938	838
WL-653B	5555	UE-949	849
WL-655/658	5553	UE-966A	866-A
672	672-A	UE-967	5557
678	5563-A	UE-972A	872-A
WL-679	5554	UE-975A	575-A
WL-681/686	5550	1640	6405/1640
NL-715	5557	1802-PI	5BPI-A

## RCA INTERCHANGEABILITY DIRECTORY OF TUBES FOR COMMUNICATIONS AND INDUSTRY

### Direct Replacement Types (cont'd)

RCA types shown below are direct replacements under all circumstances for corresponding types to be replaced.

Type to be Replaced	Replace by RCA Type	Type to be Replaced	Replace by RCA Type
1811-PI	7CPI	WTT-115	117N7-GT
1849	1850-A	WTT-117	5557
1850	1850-A	WTT-118	105
1854	6474/1854	WTT-119	172
1904	5728/FG-67	WTT-122	6SJ7
2051	2050	WTT-123	6V6
2525A5	5BPI-A	WTT-124	7K7
5604	5604-A	WTT-125	6N7-GT
5814	5814-A	WTT-126	50B5
8001	4E27/8001	WTT-127	833-A
8016	1B3-GT	WTT-128	6K8-GT
WTT-100	6X4	WTT-129	6J5-GT
WTT-102	5Y3-GT	WTT-130	6G6-G
WTT-103	6H6	WTT-131	6C6
WTT-104	575-A	WTT-132	0A4-G
WTT-105	892	WTT-135	5U4-G
WTT-111	5559	WTT-136	2API-A
WTT-112	5560	WTT-137	3API-A
WTT-113	676	WTT-149	172
WTT-114	0Z4		

NOTE: For additional replacement data on RCA Tubes for broadcasting and industry, see the 20-page RCA Interchangeability Directory (Form 1D-1020) listing 1600 industrial tube type numbers used by 24 manufacturers.

## RCA INTERCHANGEABILITY DIRECTORY OF TUBES FOR COMMUNICATIONS AND INDUSTRY

### Similar Types

RCA types shown below are not directly interchangeable with the types to be replaced because of mechanical and/or electrical differences. For more information as to degree of interchangeability, refer to respective tube data or write to Commercial Engineering, Harrison, New Jersey.

Type to be Replaced	Similar RCA Type	Type to be Replaced	Similar RCA Type
CE-IV(A-D)	930, 1P40	HV-18	806
CE-2(A-D)	917, 919	FV-20	8000
2B22	559	T-20	1623
2C38	2C39-A	TV-20	810
2E25	2E24	TZ-20	809
2E30	5618	PJ-21	5556
3B27	836	CE-22(A-D)	1P41
3B28	866-A	PJ-22	917
3C21	838	X-22	1616
3C24	1623	KU-23	806
3-25A3	809	RK-23	802
3-50A4	811-A	RK-23A	802
3-75A3	8005	24-G	808
3-250A4	806	HY-25	809
3-450A4	833-A	25T	809
3-1000A2	8000	RK-27	806
3-1000A4	810	FG-27A	5559
3X2500A3	5762/7C24	HY-30Z	809
4C21	211	CE-31V	919
		FG-33	5728/FG-67
4C22	8005	35T	811-A
4X150G	4X150A	35TG	808
CE5(A-D)	927	CE-36(A-D)	927
5C24	8000	RK-36	806
5D24	4-250A/5D22	RK-37	808
6D22	4X500A	RK-38	806
WT-6	6L6	HY-40	812-A
7C20	5762/7C24	T-40	812-A
7C25	5762/7C24	TZ-40	811-A
7C27	5762/7C24	HY-40Z	811-A
HV-12	806	RK-41	807
RK-12	809	RK-46	804
CE-13	868	RK87	814
CE-13V	917	RK-48A	813
G-15F	927	SR-50	917

**RCA INTERCHANGEABILITY DIRECTORY OF TUBES  
FOR COMMUNICATIONS AND INDUSTRY**

**Similar Types (cont'd)**

RCA types shown below are not directly interchangeable with the types to be replaced because of mechanical and/or electrical differences. For more information as to degree of interchangeability, refer to respective tube data or write to Commercial Engineering, Harrison, New Jersey.

Type to be Replaced	Similar RCA Type	Type to be Replaced	Similar RCA Type
HY-51A	830-B	100R	8020
HY-51B	830-B	100TH	810
HY-51Z	838	100TL	8000
RK-51	830-B	111-H	812-A
SR-51	926	ZB-120	838
RK-52	811-A	FI23A	806
53AWB	927	HF-125	8005
SR-53	917	T-125	810
HK-54	808	F-127A	810
54-XH	3API-A	F-128A	851
T-55	8005	HF-130	835
HY-57	812-A	HF-140	211
R-58A	927	143D	2X2-A
58AWB	927	GL-146	805
59D	929	AB-150	845
CE-60	917	TW-150	810
HF-60	8005	150P	803
HY-60	807	150T	806
SK-60	868	152TH	806
T-60	8005	152TL	806
R61BV	929	GL-152	805
RK-63	806	HK-154	808
SK-63	918	T-155	806
RK-64	807	C-200	810
R64AV	925	HF-200	8000
HY-69	1624	T-200	806
V-70-D	8005	C-201	805
R71A	930, 1P40	C-202	805
R71AV	925	HD203-A	805
71D	929	HD-203C	805
FP-85	8020	HF-203H	8003
FP-85A	8020	WE-205D	10-Y
R85A	928	WE-205E	10-Y
CE-91R	1P37	WT-210-0007	6L6
HF-100	8005	WT-210-0067	3C23

**RCA INTERCHANGEABILITY DIRECTORY OF TUBES  
FOR COMMUNICATIONS AND INDUSTRY**

**Similar Types (cont'd)**

RCA types shown below are not directly interchangeable with the types to be replaced because of mechanical and/or electrical differences. For more information as to degree of interchangeability, refer to respective tube data or write to Commercial Engineering, Harrison, New Jersey.

Type to be Replaced	Similar RCA Type	Type to be Replaced	Similar RCA Type
211B	211	WE-274A	5R4-GY
211C	835	WE-281A	46
HD-211C	805	T-282A	8000
211E	835	WE-284B	845
212E	849	WE-284D	845
WE-214E	217-C	WE-287A	5557
WE-217-A	80	WE-298A	862-A
WE-220C	892	300	806
Z-225	866-A	WE-301A	83
WE-231D	864	T-303C	8000
WE-241B	833-A	UE-303U	8000
WE-242C	211	UE-304A	204-A
T-249B	866-A	WE-304B	6AK5
WE-249A	866-A	CE-306	676
WE-249B	866-A	WE-307A	807
250TH	810	UE-310	801-A
250TL	806	WE-310A	6C6
HF-250	8000	UE-311CH	8000
WE-251A	851	UE-311T	8003
WE-252A	842	UE-311CT	8003
HK-253	217-C	WE-312A	828
HK-254	810	315A	673
WE-254B	865	319A	872-A
WE-255B	869-B	321A	673
HF-258B	866-A	323B	3C23
WE-259A	24-A	WE-339A	807
260A	860	WE-341AA	891-R
HF-261A	835	F-342A	858
WE-264A	864	343A	858
WE-264B, C	864	WE-348A	1620
266B	857-B	C-350	807
WE-266C	857-B	WE-350B	807
WE-267B	872-A	353A	872-A
WE-268A	801-A	HK-354C	806
WE-271A	843	HK-354D	806



**RCA INTERCHANGEABILITY DIRECTORY OF TUBES  
FOR COMMUNICATIONS AND INDUSTRY**

**Similar Types (cont'd)**

RCA types shown below are not directly interchangeable with the types to be replaced because of mechanical and/or electrical differences. For more information as to degree of interchangeability, refer to respective tube data or write to Commercial Engineering, Harrison, New Jersey.

Type to be Replaced	Similar RCA Type	Type to be Replaced	Similar RCA Type
HK-354E	806	WL-739	927
HK-354F	806	WL-741	923
ML-356	5771	T-756	809
WE-356A	808	UE-812H	8005
WE-357A	833-A	T-814	806
F-357A	857-B	T-822	806
WE-359A	1C21	825	1623
WE-361A	835	C-849A	833-A
F-363A	892	C-849H	833-A
F-367A	673	F-857A	857-B
F-369B	869-B	861-A	861
F-376A	835	863	892
WE-393A	3C23	866-B	866-A
WE-394A	627	C-872	872-A
WE-395A	5823	UE-911CH	835
FJ-405	935	UE-942	842
WL-450	833-A	NL-1005	5551
WL-460	806	1603	1620, 5879
WL-463	806	1816-P4A	10FP4-A
UE-468	8000	1847	5527
WL-468	810	1851	6AC7
WL-471	8003	1899	2F21
WL-473	5762/7C24	2501-A3	3API-A
WL-481	8013-A	2501-C3	908-A
RH-507	1949	5514	811-A
DRJ-524	864	5516	2E24
GL-546	5696	5591	6AK5
578	8020	5604	889R-A
NL-615	5558	5606	892
WL-632A	5560	5654	6AK5
WL-632B	5560	5658	880
678	5563	5663	5696
NL-710	676	5666	889-A
NL-714	5557	5667	889R-A
WL-734	917	5668	892

**RCA INTERCHANGEABILITY DIRECTORY OF TUBES  
FOR COMMUNICATIONS AND INDUSTRY**

**Similar Types (cont'd)**

RCA types shown below are not directly interchangeable with the types to be replaced because of mechanical and/or electrical differences. For more information as to degree of interchangeability, refer to respective tube data or write to Commercial Engineering, Harrison, New Jersey.

Type to be Replaced	Similar RCA Type	Type to be Replaced	Similar RCA Type
5669	892-R	6156	4-250A/5D22
5685/C6J	676	6333	892
5686	5763	6336	6080
5695	816	6346	5551
5720/FG-33	5728/FG-67	6347	5552
5725	6AS6	6348	5553
5736	5726/7C24	6394	6082
5788	5555	6445	892-R
5891	5671	6446	892
5918	5770	6447	892-R
5934	579-B	6626	6073
5959	6130/3C45	6627	6074
6140/423A	5651	AX9911	6130/3C45
6155	4D21/4-125A		

## RCA RADIO BATTERIES

Radio-Engineered for Extra Listening Hours

RCA Type	Volts		Replaces		NEDA Type No.	Max. Overall Dimensions		
	A	B	Eve-ready	Burgess		L	W. or Dia.	Ht.

(For socket and terminal information see pages 97 and 98)

### PORTABLE "A" TYPES

VS002	4½	—	746	G3	7	4	1⅜	4½
VS004	1½	—	742	4F	4	2⅝	2⅝	4½
VS005	1½	—	—	4FL	12	3½	1⅜	5⅝
VS009	6	—	744	F4PI	6	2⅝	2⅝	4¼
VS010	6	—	718	2F4	1	3⅞	2½	5½
VS011	6	—	747	2F4L	16	3⅞	1⅞	10¾
VS035	1½	—	935	I	14	—	1	1½
VS036	1½	—	950	2R	13	—	1⅞	2⅝
VS065	7½	—	717	C5	9	2⅞	2	3½
VS067	4½	—	736	F3	3	4	1⅜	4⅞
VS068	6	—	724	Z4	2	1⅞	1⅞	2⅝
VS069	1½	—	720	2D	18	2⅞	1⅞	2⅝
VS070	1½	—	960P	8R	23	—	1⅞	4½
VS072	4½	—	726	D3	19	3½	1⅞	2½
VS129	7½	—	713	B5	8	4⅞	½	3
VS141	1½	—	W353	2F	11	2⅞	1⅞	4¼
VS236	1½	—	964	21R	20	—	1⅜	4½

### PORTABLE "B" TYPES

VS012	—	45	484	B30	207	4⅞	2⅝	5⅞
VS013	—	45	482	M30	202	3⅞	1½	5½
VS014	—	45	W359	A30	206	3⅞	2¼	4⅞
VS015	—	22½, 45	738	Z30	205	3	2¼	4
VS016	—	67½	467	XX45	200	2¾	1⅜	3¾
VS055	—	45	455	XX30	201	2½	1	3½
VS082	—	67½	457	K45	203	2½	1⅞	2⅞
VS086	—	45	415	U30	213	1⅞	⅞	3⅞
VS090	—	90	490	N60	204	3½	1⅜	3¾
VS215	—	67½	—	P45M	211M	1½	1	5⅞
VS216	—	67½	—	P45M	211M	1½	1⅜	5⅞
VS217	—	75	437	XX50	212	1½	1⅜	6¼
VS218	—	67½	477	P45	211P	1½	1	5⅞
VS219	—	90	479	P60	214	1½	1⅜	7½

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## RCA RADIO BATTERIES

### PORTABLE "A-B" PACKS

RCA Type	Volts		Replaces		NEDA Type No.	Max. Overall Dimensions		
	A	B	Eve-ready	Burgess		L	W. or Dia.	Ht.
VS019	7½, 9	90	753	F6A60	401	9⅞	2¾	4⅞
VS038	7½	63	W367	G5A42	408	8⅝	2¾	4⅞
VS043	1½	90	—	5DA60	409	5½	2½	7⅞
VS046	6	75	—	G4B50	422	12⅝	2¾	4⅞
VS047	9	90	752	G6B60	400	13⅝	2¾	4⅞
VS050	6, 7½	75	755	T5Z50	403	8⅞	2⅞	3½
VS052	1½	61½	—	4GA41	423	9⅞	2½	3⅞
VS053	1½	63	W366	4GA42	407	9⅞	2	4¾
VS054	1½	90	W369	6TA60	410	10	2⅞	4½
VS057W	7½, 9	90	756	T6Z60	405	8½	2⅞	3¾
VS058	9	90	757	F6A60P	406	9½	2¾	4⅞
VS059	9	90	756P	T6Z60P	428	8½	2⅞	3¾
VS060	7½	75	—	T5Z50P	431	8⅞	2⅞	3½
VS064	1½	90	729	4TZ60	425	7¾	2⅞	3⅝

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RCA Type	Volts			Replaces		NEDA Type No.	Max. Overall Dimensions		
	A	B	C	Eve-ready	Burgess		L	W. or Dia.	Ht.

### FARM "A-B" AND "B" TYPES

VS022	1½	90	—	759	17GD60	413	15¾	4¼	6½
VS026	—	22½, 45	—	W365P	2308PI	717	8⅞	3⅞	7⅞
VS045	1½	90	—	—	18GD60	426	12⅞	5⅞	6½
VS119	7½, 9	90	—	—	—	415	8¼	4½	13⅞

### FLASHLIGHT AND LANTERN TYPES

VS034	1½	—	—	915	Z	15	—	⅞	2
VS035	1½	—	—	935	I	14	—	1	1½
VS036	1½	—	—	950	2	13	—	1⅞	2⅝
VS040C	6	—	—	510F	F4H	908	2½	2½	4⅞
VS040S	6	—	—	510S	F4BP	915	2½	2½	4⅞
VS073	1½	—	—	—	N	910	—	⅞	1⅞
VS074	1½	—	—	912	7	24	—	⅞	14⅞
VS138	3	—	—	W357	4F2H	901	3⅞	2½	5⅞

(For socket and terminal information see pages 97 and 98)

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# RCA RADIO BATTERIES

## INDUSTRIAL AND SPECIAL-PURPOSE BATTERIES

RCA Type	Volts			Replaces		NEDA Type No.	Max. Overall Dimensions		
	A	B	C	Eve-ready	Burgess		L	W. or Dia.	Ht.
YS006C	1 1/2	—	—	61GN	61GN	914	—	2 5/8	6 5/8
YS006S	1 1/2	—	—	61GN	61GN	905	—	2 5/8	6 7/8
YS028	—	—	4 1/2	781	5360	714	2 3/8	1 1/2	2 7/8
YS029	—	—	7 1/2 □	773	5540	713	3 3/4	1 1/2	2 1 1/2
YS030	—	—	3, 4 1/2	771	2370PI	718	3 1 1/2	1 3/8	2 7/8
YS031	—	—	22 1/2 ♦	768	5156PI	721	4	2 1/2	3
YS039	6	—	—	1461	S461	907	10 3/8	2 7/8	7 3/8
YS040S	6	—	—	510S	F4BP	915	2 1 1/2	2 1 1/2	4 7/8
YS083	—	15	—	411	U10	208	1 3/8	5/8	1 7/8
YS084	—	22 1/2	—	412	U15	215	1 3/8	5/8	2
YS085	—	30	—	413	U20	210	1 3/8	5/8	2 1/8
YS087	per cell: 1.4 volts per stack: 21 volts			—	—	759	—	.491	.220
YS088	per cell: 1.4 volts per stack: 21 volts			—	—	760	—	.887	.226
YS093	—	300	—	493	U200	722	2 5/8	2 3/8	3 1 1/2
YS100	3	—	—	W352	F2BP	701	2 5/8	1 3/8	4 7/8
YS101	1 1/2	—	—	W354	2FBP	700	2 5/8	1 3/8	4 7/8
YS102	—	22 1/2	—	763	4156	710	3 3/8	2 1/8	2 3/4
YS103	6	—	—	706	4F4H	902	8 3/8	2 1 1/2	6 3/8
YS106	1 1/2	—	—	735	4FH	900	2 1 1/2	2 1 1/2	4 7/8
YS112	—	22 1/2, 45	—	W376	5308	709	4 1/8	2 5/8	5 7/8
YS114	—	22 1/2, 45	—	W350	Z30NX	711	3	1 7/8	4 1 1/2
YS126	—	22 1/2, 45	—	W365F	2308SC	723	8 1/8	3 1/4	7 7/8
YS127	—	22 1/2, 45	—	W363F	10308SC	716	8	4	7 3/8
YS127W▶	—	22 1/2, 45	—	—	10308SC	724	8	4	7 3/8
YS130	—	—	4 1/2 ••	761T	2370ST	712	3 1 1/2	1 3/8	3
YS131	—	—	22 1/2 §	778	5156SC	708	4 1/8	2 1/2	3 7/8
YS133	4 1/2	—	—	703	532	706	2 3/8	1 1/2	2 7/8
YS134	3	—	—	750	422	704	1 7/8	3/4	2 7/8
YS136	3	—	—	W356	2F2H	703	2 1 1/2	2 1 1/2	4 7/8
YS138	3	—	—	W357	4F2H	901	3 7/8	2 1 1/2	5 7/8
YS139	7 1/2	—	—	715	4F5H	903	7 1/4	4	6 7/8
YS140	9	—	—	716	4F6H	904	8 1/2	4 1/8	6 7/8
YS142	4 1/2	—	—	751	432	705	2	3/4	2 5/8
YS157	—	22 1/2, 45	—	W364F	21308SC	715	8 1/8	4 5/8	7 1 1/2

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▶ Wax coated.

□ Other voltage taps: 1 1/2, 3, 4 1/2, 6. ♦ Other voltage taps: 3, 4 1/2, 16 1/2.

•• Other voltage taps: 1 1/2, 3. § Other voltage taps: 3, 4 1/2, 6, 9, 10 1/2, 16 1/2.

# TERMINAL GUIDE FOR RCA BATTERIES

Battery Type	Terminals	Battery Type	Terminals
VS002	Fig. 2	VS070	Fig. 1
VS004	Fig. 1	VS072	Fig. 2
VS005	Fig. 1	VS073	Flashlight
VS006C	2 Fahnestock Clips	VS074	Flashlight
VS006S	2 Screw Terminals	VS082	2 Snap Terminals
VS009	Fig. 3	VS083	Flashlight
VS010	Fig. 3	VS084	Flashlight
VS011	Fig. 3	VS085	Flashlight
VS012	Fig. 7	VS086	2 Snap Terminals
VS013	Fig. 6	VS087 } VS088 }	{ Top and Bottom Surfaces
VS014	Fig. 7	VS090	2 Snap Terminals
VS015	Fig. 8		
VS016	2 Snap Terminals		2 Flush-Pin
VS019	Fig. 14	VS093	Jack-Terminals
VS022	Fig. 12	VS100	2 Screw
VS026	Fig. 5	VS101	2 Screw
VS028	2 Screw Terminals	VS102	2 Screw
VS029	5 Screw Terminals, 1 Pigtail	VS103	2 Screw
VS030	Fig. 9	VS106	2 Screw
VS031	Fig. 10	VS112	3 Screw
VS034	Flashlight	VS114	3 Screw
VS035	Flashlight	VS119	Fig. 13
VS036	Flashlight	VS126	3 Fahnestock Clips
VS038	Fig. 15	VS127	3 Fahnestock Clips
VS039	2 Screw Terminals	VS127W	3 Fahnestock Clips
VS040C	2 Coil-Spring Terminals	VS129	Fig. 4
VS040S	2 Screw Terminals	VS130	4 Screw
VS043	Fig. 12	VS131	8 Fahnestock Clips
VS045	Fig. 11	VS133	2 Flat-Spring Terminals
VS046	Fig. 17	VS134	2 Flat-Spring Terminals
VS047	Fig. 18	VS136	2 Screw
VS050	Fig. 16	VS138	2 Fahnestock Clips
VS052	Fig. 19	VS139	2 Screw
VS053	Fig. 19	VS140	2 Screw
VS054	Fig. 12	VS141	Fig. 1
VS055	2 Snap Terminals	VS142	2 Flat-Spring Terminals
VS057W	Fig. 14	VS157	3 Fahnestock Clips
VS058	Fig. 18	VS215	2 Snap Terminals
VS059	Fig. 18	VS216	2 Snap Terminals
VS060	Fig. 20	VS217	2 Snap Terminals
VS064	Fig. 12	VS218	2 Snap Terminals
VS065	Fig. 4	VS219	2 Snap Terminals
VS067	Fig. 2	VS236	Flashlight
VS068	Flashlight		
VS069	Fig. 1		

## TERMINAL PATTERNS FOR RCA BATTERIES

<p>FIG. 1 "A"</p> <p style="text-align: center;">-A +1.5</p> <p style="text-align: center;">○ ○</p> <p>RETMA 101</p>	<p>FIG. 2 "A"</p> <p style="text-align: center;">-A +4.5</p> <p style="text-align: center;">○ ○</p> <p>RETMA 103</p>	<p>FIG. 3 "A"</p> <p style="text-align: center;">-A +6</p> <p style="text-align: center;">○ ○</p> <p>RETMA 104</p>
<p>FIG. 4 "A"</p> <p style="text-align: center;">-A +7.5</p> <p style="text-align: center;">○ ⊗ ○</p> <p>RETMA 105</p>	<p>FIG. 5 "B"</p> <p style="text-align: center;">-B ○</p> <p style="text-align: center;">+22.5 ○ ○ +45</p> <p>RETMA 107</p>	<p>FIG. 6 "B"</p> <p style="text-align: center;">-B ○</p> <p style="text-align: center;">-B ○ ○ +45</p> <p style="text-align: center;">⊗ ○ +45</p> <p>RETMA 110</p>
<p>FIG. 7 "B"</p> <p style="text-align: center;">-B ○ ○ -B</p> <p style="text-align: center;">⊗ ○ +45</p> <p>RETMA 111</p>	<p>FIG. 8 "B"</p> <p style="text-align: center;">-B ○ ○ -B</p> <p style="text-align: center;">+22.5 ○ ○ +45</p> <p>RETMA 111</p>	<p>FIG. 9 "C"</p> <p style="text-align: center;">○ -4.5</p> <p style="text-align: center;">+C ○ ○ -3</p> <p>RETMA 112</p>
<p>FIG. 10 "C"</p> <p style="text-align: center;">-22.5 ○</p> <p style="text-align: center;">-3 ○ ○ +C</p> <p style="text-align: center;">-4.5 ○ ○ -16.5</p> <p>RETMA 113</p>	<p>FIG. 11 "A-B"</p> <p style="text-align: center;">+1.5A ○ ⊗</p> <p style="text-align: center;">⊗ ○ -B</p> <p style="text-align: center;">⊗ ⊗ ⊗</p> <p style="text-align: center;">-A ○ ○ +90B</p> <p>RETMA 115</p>	
<p>FIG. 12 "A-B"</p> <p style="text-align: center;">+90B ○ ○ -B</p> <p style="text-align: center;">+1.5A ○ ○ -A</p> <p>RETMA 115</p>	<p>FIG. 13 "A-B"</p> <p style="text-align: center;">+9A ○ ○ +90B</p> <p style="text-align: center;">-A ○ ○ -B</p> <p style="text-align: center;">+90B ○ ⊗ ○ +9A</p> <p style="text-align: center;">⊗ ○ +7.5A</p> <p>RECESSED TERMINALS</p> <p>RETMA 116</p>	
<p>FIG. 14 "A-B"</p> <p style="text-align: center;">-B ○ ⊗</p> <p style="text-align: center;">⊗ ○ -A</p> <p style="text-align: center;">+90B ○ ⊗ ○ +9A</p> <p style="text-align: center;">⊗ ○ +7.5A</p> <p>RETMA 116</p>	<p>FIG. 15 "A-B"</p> <p style="text-align: center;">-B ○ ⊗</p> <p style="text-align: center;">⊗ ○ -A</p> <p style="text-align: center;">+63B ○ ⊗ ⊗</p> <p style="text-align: center;">⊗ ○ +7.5A</p> <p>RETMA 116</p>	<p>FIG. 16 "A-B"</p> <p style="text-align: center;">-B ○ ⊗</p> <p style="text-align: center;">⊗ ○ -A</p> <p style="text-align: center;">+75B ○ ⊗ ⊗</p> <p style="text-align: center;">+6A ○ ○ +7.5A</p> <p>RETMA 116</p>
<p>FIG. 17 "A-B"</p> <p style="text-align: center;">○ -B</p> <p style="text-align: center;">+75B ○</p> <p style="text-align: center;">-A ○ ○ +6A</p> <p>RECESSED TERMINALS</p>	<p>FIG. 18 "A-B"</p> <p style="text-align: center;">+9A ○ ○ +90B</p> <p style="text-align: center;">-A ○ ○ -B</p> <p>RECESSED TERMINALS</p>	<p>FIG. 19 "A-B"</p> <p style="text-align: center;">* ○ ○ -B</p> <p style="text-align: center;">+1.5A ○ ○ -A</p> <p style="text-align: center;">* VS052: +61.5B</p> <p style="text-align: center;">VS053: +63B</p>
	<p>FIG. 20 "A-B"</p> <p style="text-align: center;">⊗ ○ +75B</p> <p style="text-align: center;">○ +7.5A</p> <p style="text-align: center;">-A ○ ○ -B</p> <p>RECESSED TERMINALS</p>	92CM-8792

## RCA BATTERY REPLACEMENT GUIDE

For 1948 to 1955 Portable Radios

Make and Model	RCA Battery			Make and Model	RCA Battery		
	A	AB	B		A	AB	B
<b>Admiral</b>				<b>Admiral (cont'd)</b>			
L76P5	1-VS005		2-VS014	7P32			1-VS019
N28-G5	2-VS036		1-VS016	7P33			1-VS019
4B21	1-VS065		1-VS216	7P34			1-VS019
4B22	1-VS065		1-VS216	27-G4	2-VS036		1-VS016
4B24	1-VS065		1-VS216	28-G5	2-VS036		1-VS016
4B28	1-VS065		1-VS216	29-G5	2-VS036		1-VS016
4B29	1-VS065		1-VS216	51D4			1-VS054
4D11	2-VS036		1-VS016	76-P5	1-VS005		2-VS014
4D12	2-VS036		1-VS016	76-XP5	1-VS005		2-VS014
4D13	2-VS036		1-VS016	77-P5	1-VS005		2-VS014
4R1	1-VS065		1-VS016	77-XP5	1-VS005		2-VS014
4R11	1-VS065		1-VS016	78-P6	1-VS004		2-VS013
4R12	1-VS065		1-VS016	78-XP6	1-VS004		2-VS013
4T1	1-VS065		1-VS016	79-P6	1-VS004		2-VS013
4T11	1-VS065		1-VS016	79-XP6	1-VS004		2-VS013
4V12	1-VS065		1-VS016	231-4F	1-VS004		2-VS014
4V16	1-VS065		1-VS016	231-4Z	1-VS004		2-VS014
4V18	1-VS065		1-VS016	3114D-PH	1-VS004		2-VS013
4W1	1-VS065		1-VS016	319-4Z	1-VS005		2-VS014
4W18	1-VS065		1-VS016	331-4F	1-VS004		2-VS014
4W19	1-VS065		1-VS016	335-4Z	1-VS004		2-VS013
4X1	2-VS236		1-VS216	635-4Z	1-VS004		2-VS013
4Y12	1-VS065		1-VS016	1035-4Z	1-VS004		2-VS013
4Y18	1-VS065		1-VS016	1644-D	1-VS004		2-VS013
4Y19	1-VS065		1-VS016				
4X11	2-VS236		1-VS216	<b>Air-Castle (Spiegel)</b>			
4Z1	1-VS065		1-VS016	BP115	1-VS010		2-VS013
4Z12	1-VS065		1-VS016	DM700	4-VS036		1-VS016
4Z14	1-VS065		1-VS016	EV760	4-VS036		1-VS016
4Z18	1-VS065		1-VS016	G-521	2-VS002		2-VS013
4Z19	1-VS065		1-VS016	76-74T	1-VS002		1-VS016
5F11	1-VS065		1-VS016	102-B	1-VS002		1-VS090
5F12	1-VS065		1-VS016	213	1-VS002		1-VS016
5H1		1-VS019		738B5400	1-VS072		1-VS090
5K32		1-VS057W		5027	2-VS002		2-VS013
5K34		1-VS057W		5028	2-VS036		1-VS016
5K38		1-VS057W		5029	2-VS036		1-VS016
5K39		1-VS057W		132564		1-VS022	
6C11		1-VS019		147114	5-VS036		1-VS016
6E1		1-VS019					
6E1N		1-VS019		<b>Airchief (Firestone)</b>			
6F11		1-VS019		4C1	2-VS036		1-VS016
6F12		1-VS019		4C5	2-VS036		1-VS016
6P32		1-VS019		4C13	5-VS036		1-VS016
6Y1		1-VS019		4C16	1-VS067		1-VS090
6Y18		1-VS019		4C17	1-VS067		1-VS090
6Y19		1-VS019					

## RCA BATTERY REPLACEMENT GUIDE

For 1948 to 1955 Portable Radios  
(Continued)

Make and Model	RCA Battery			Make and Model	RCA Battery		
	A	AB	B		A	AB	B
<b>Airchief (Firestone) (cont'd)</b>				<b>Airline (M-W) (Cont'd)</b>			
4C18		1-VS019		1067	2-VS036	1-VS016	
4C19	1-VS067		1-VS090	1068	1-VS036	1-VS090	
4C20	1-VS067		1-VS090	1070		1-VS019	
4C21	2-VS067		2-VS013	1072	1-VS036	1-VS090	
4C22	2-VS236		1-VS216	<b>Andrea</b>			
4C23		1-VS057W		8663	2-VS067	2-VS013	
4C24		1-VS057W		P163	2-VS002	2-VS013	
<b>Air King</b>				<b>Arvin</b>			
A410	2-VS036		1-VS016	140P		1-VS019	
A425	1-VS036		1-VS016	240P	3-VS036	1-VS016	
A426	1-VS036		1-VS055	241P	4-VS036	1-VS016	
A427	1-VS036		1-VS055	244P	4-VS036	1-VS016	
A520	3-VS036		1-VS016	250P		1-VS019	
520A	1-VS129		1-VS016	350P	6-VS035	1-VS090	
3905	1-VS004		1-VS015	350PB	6-VS035	1-VS090	
<b>Airline (Mont-Ward)</b>				350PL	6-VS035	1-VS090	
B4GCB-				351P	6-VS035	1-VS090	
1062A	1-VS036		1-VS016	351PB	6-VS035	1-VS090	
GSE-1077A	2-VS036		1-VS216	351PL	6-VS035	1-VS090	
GSE-1078A	2-VS036		1-VS216	352PL	6-VS035	1-VS090	
14BD9-815	4-VS036		1-VS016	353PL	6-VS035	1-VS090	
I5BD11-917		1-VS019		446P	2-VS036	1-VS016	
25GHM-				447P	2-VS036	1-VS016	
1073A		1-VS019		448P	6-VS035	1-VS016	
35GHM-				449P	6-VS035	1-VS016	
1073B		1-VS019		650P	6-VS035	2-VS055	
35GHM-				652P Series	6-VS035	2-VS055	
1073C		1-VS019		654P Series	6-VS035	2-VS055	
35GHM-				746P	1-VS236	1-VS216	
1074A	3-VS036		1-VS217	747P	1-VS236	1-VS216	
62TL-1062	1-VS036		1-VS016	852P	5-VS035	2-VS055	
64WG-				854P	5-VS035	2-VS055	
1054A		1-VS019		<b>Automatic</b>			
74KR-				Tom Thumb			
1210A		1-VS019		(Buddy)	2-VS036	1-VS016	
74WG-				Tom Thumb			
1054A		1-VS019		(Camera)	2-VS036	1-VS016	
74WG-				(Bike) B44	2-VS036	1-VS016	
1056A		1-VS019		C-51	2-VS067	2-VS013	
84WG-				C-54	2-VS067	2-VS013	
1060A	4-VS036		1-VS016	C-60	1-VS011	2-VS013	
94WG-				C65	1-VS011	2-VS013	
1059A		1-VS019					
1064A	1-VS036		1-VS016				

## RCA BATTERY REPLACEMENT GUIDE

For 1948 to 1955 Portable Radios  
(Continued)

Make and Model	RCA Battery			Make and Model	RCA Battery		
	A	AB	B		A	AB	B
<b>Bendix</b>				<b>Crosley (cont'd)</b>			
PMR-3A	1-VS036		1-VS016	10-307M		1-VS057W	
PAR-80		1-VS019		10-308		1-VS057W	
PMR-3A	1-VS036		1-VS016	10-309		1-VS057W	
55X4	4-VS035		1-VS016	11-301U	1-VS036	1-VS016	
416A		1-VS022		11-302U	1-VS036	1-VS016	
687A		1-VS019		11-303U	1-VS036	1-VS016	
<b>Capehart</b>				11-304U	1-VS036	1-VS016	
10	1-VS036		1-VS016	11-305U	1-VS036	1-VS016	
15		1-VS057W		F-100	2-VS236	1-VS217	
P213	2-VS236		1-VS216	F110BE	2-VS236	1-VS217	
1P55	2-VS236		1-VS216	F110BK	2-VS236	1-VS217	
<b>Cavalier</b>				F110CE	2-VS236	1-VS217	
4P3		1-VS057W		F110GN	2-VS236	1-VS217	
<b>Clarion</b>				F110RD	2-VS236	1-VS217	
13201		1-VS022		F115		1-VS058	
13203		1-VS022		<b>Detrola</b>			
<b>CBS-Columbia</b>				610-A		1-VS022	
525	1-VS129		1-VS016	3891	2-VS002	2-VS013	
526	1-VS129		1-VS016	3892	2-VS002	2-VS013	
5110	2-VS035		1-VS216	3893	2-VS002	2-VS013	
5220	1-VS065		1-VS216	<b>Dewald</b>			
<b>Concord</b>				A-507	2-VS067	2-VS013	
1-611	2-VS002		2-VS013	B-400	2-VS036	1-VS016	
<b>Continental</b>				B-402	1-VS002	1-VS016	
B-5400	1-VS072		1-VS090	B-504	1-VS002	1-VS016	
<b>Coronado</b>				B-515	1-VS002	1-VS016	
RA37-43-				C-504	1-VS067	1-VS016	
9855	2-VS236		1-VS216	C-515	1-VS067	1-VS016	
RA33-9856D		1-VS019		D-508	2-VS002	2-VS013	
RA42-9850A	2-VS036		1-VS016	D-517	1-VS067	1-VS016	
35RA4-43-				D-517A	1-VS067	1-VS090	
9856A		1-VS019		F-504		1-VS022	
94RA31	1-VS002		1-VS106	G-408	2-VS236	1-VS216	
<b>Crosley</b>				H-527	1-VS065	1-VS216	
9-101		1-VS022		H-528	1-VS065	1-VS216	
9-302		1-VS019		<b>Dynavox</b>			
9-304	2-VS036		1-VS016	3P801	2-VS036	1-VS016	
9-307M		1-VS057W		<b>Emerson</b>			
10-304M	1-VS067		1-VS090	CE-259	1-VS004	2-VS013	
				CE-263	1-VS004	2-VS013	









# RCA BATTERY REPLACEMENT GUIDE

For 1948 to 1955 Portable Radios  
(Continued)

Make and Model	RCA Battery		
	A	AB	B

## Westinghouse (cont'd)

423P4	2-VS236	1-VS217
424P4	2-VS236	1-VS217
425P4	2-VS236	1-VS217

## Zenith

G500	1-VS047	
G503	1-VS058	
H412T	1-VS045	
H500	1-VS047	
H503	1-VS058	
J402	1-VS058	
J504	1-VS058	
J504Y	1-VS058	
K401 Series	3-VS036	1-VS016
L401	3-VS036	1-VS216
L403 Series	2-VS236	1-VS216
L406R	1-VS058	
L505	1-VS059	
L507	1-VS058	
L600	1-VS070	1-VS047

Make and Model	RCA Battery		
	A	AB	B

## Zenith (Cont'd)

4G800	1-VS036	1-VS016
4G903	1-VS058	
4G903Y	1-VS058	
4G908	1-VS058	
4K400	1-VS004	2-VS013
4K400D	1-VS004	2-VS013
4K400L	1-VS004	2-VS013
4K400M	1-VS004	2-VS013
4K400S	1-VS004	2-VS013
4K400Y	1-VS004	2-VS013
4K600	2-VS036	1-VS016
5G500	1-VS046	
5G500R Series	1-VS047	
5G501	1-VS047	
5G504	1-VS046	
5K603	1-VS046	
6G001Y	1-VS047	
6G004Y	1-VS047	
6G801	1-VS058	
401	1-VS058	
5416	1-VS004	2-VS013

# RCA MINIATURE LAMPS

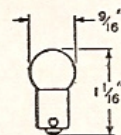
## FLASHLIGHT TYPES

Type No.	Filament		Bulb Outline*	Bead Color	Use with RCA Battery	
	Volts	Amps.				
PR-2	2.4	0.50	F	Blue	VS036	(Two)
PR-3	3.6	0.50	F	Green	VS036	(Three)
FR-6	2.5	0.30	F	Brown	VS036	(Two)
13	3.8	0.30	C	Green	VS036	(Three)
14	2.5	0.30	C	Blue	VS036	(Two)
112	1.1	0.22	B	Pink	VS034	(One)
222	2.2	0.25	B	White	VS034	(Two)
233	2.3	0.27	C	Purple	VS035	(Two)

## RADIO PANEL AND MISCELLANEOUS TYPES

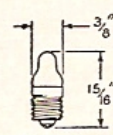
Type No.	Filament		Bulb Outline*	Bead Color	Service
	Volts	Amps.			
40	6 to 8	0.15	E	Brown	Radio Panel
41	2.5	0.50	E	White	Radio Panel
42	3.2	0.35	E	Green	Radio Panel
43	2.5	0.50	D	White	Radio Panel
44	6 to 8	0.25	D	Blue	Radio Panel
45	3.2	0.35	D	Green	Radio Panel
46	6 to 8	0.25	E	Blue	Radio Panel
47	6 to 8	0.15	D	Brown	Radio Panel
48	2.0	0.06	E	Pink	Radio Panel
49	2.0	0.06	D	Pink	Radio Panel
50	6 to 8	1-candle power	C	White	Radio Panel
51	6 to 8	1-candle power	G	White	Radio Panel
55	6 to 8	2-candle power	A	White	Test Instrument
291	2.9	0.17	E	White	Radio Panel
292	2.9	0.17	E	White	Pin-Game Machine
1490	3.2	0.16	D	White	Radio Panel

## \*DIMENSIONAL OUTLINES



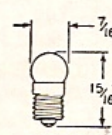
C-4 1/2 BULB  
MINIATURE  
BAYONET BASE

A



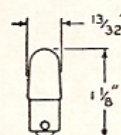
TL-3 BULB  
MINIATURE  
SCREW BASE

B



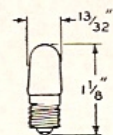
G-3 1/2 BULB  
MINIATURE  
SCREW BASE

C



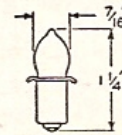
T-3 1/4 BULB  
MINIATURE  
BAYONET BASE

D



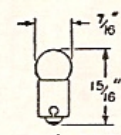
T-3 1/4 BULB  
MINIATURE  
SCREW BASE

E



B-3 1/2 BULB  
MINIATURE  
FLANGE BASE

F



G-3 1/2 BULB  
MINIATURE  
BAYONET BASE

G

## RCA TELEVISION COMPONENTS

- Deflecting Yokes
- Horizontal-Output and High-Voltage Transformers
- Blocking-Oscillator Transformers
- Vertical-Output Transformers
- Ion-Trap Magnets
- Linearity and Width Controls
- Focus Coils
- Power Transformers
- Conversion Kit

### DEFLECTING YOKES (For Use with Kinescopes)

Horizontal Coil Inductance mh	Vertical Coil DC Resistance ohms	Deflection Angle degrees	RCA Type
8.3	64.6	57	201D12
8.4	68	57	207D1
10.3	48.7	70	206D1
12	42	90	237D1†
12.5	68.8	57	205D1
13.3	48	70	209D1
13.3	48	70	211D2*
18.5	44	90	235D1*
18.5	48	70	222D1*
20	42	90	236D1*
28.5	3.3	70	214D1*

†Supplied with damping and neutralizing elements.

\*Supplied with color-coded leads, damping and neutralizing elements.

### DEFLECTING YOKES (For use with Camera Tubes)

Horizontal Coil Inductance mh	Typical Tube Type	RCA Type
0.9	6198, 6326	216D1
5.5	5820	210D1
5.5	2F21, 1699	201D77
8.0	5WP15, 5ZP16	212D1

### HORIZONTAL-OUTPUT AND HIGH-VOLTAGE TRANSFORMERS

DC Output (No Load) Kv	For Typical Yoke		RCA Type
	Deflection Angle degrees	Horizontal Coil Inductance mh	
8.75	57	8.3	211T3*
9	57	8.3	211T1*
14	70	13.3	224T1†
10 to 15	50-70	8 to 30	231T1*††
10 to 16	50-70	8 to 30	232T1††
18	70	13.3	230T1†
18	90	12	235T1†
33	57	8	211T2†

\*Isolated-secondary type

†Autotransformer type

‡Universal type

††For projection kinescopes

### HORIZONTAL-OUTPUT TRANSFORMER

For Camera Tube Types	RCA Type
6198, 6326	233T1

### HORIZONTAL LINEARITY CONTROLS

Inductance Range		RCA Type
Minimum mh	Maximum mh	
0.55	2.3	201R5
1.3	4.1	209R1
1.5	8.3	213R1
5.5	20	201R3

### WIDTH CONTROLS

Inductance Range		RCA Type
Minimum mh	Maximum mh	
0.05	0.245	201R1
0.08	0.24	201R2
0.17	0.61	201R4
0.47	1.7	206R1
0.5	1.7	208R1
1.65	9.2	211R1
1.75	10.5	214R1*
2.9	16	212R1
3.9	22	215R1

\*Has tapped secondary winding for AGC/AFC operation.

### ION-TRAP MAGNETS

Description	RCA Type
Do ble-pole, field-coil type. Dc current rating, 200 ma.	203D1
"Universal" Double/Single pole permanent-magnet type. Employs 3 ring-shaped magnets for use in double-pole applications. Can be used in single-pole applications by removing the small ring-shaped magnet. Field strength; large magnet, 55 gauss; small magnet, 15 gauss.	203D3

### HORIZONTAL-OSCILLATOR AND SYNC-STABILIZER COILS

Description	RCA Type
6-terminal phase discriminator for 630-type receivers.	208T8
3-terminal center-tapped oscillator coil for synchro-guide circuits.	203R1
4-terminal oscillator coil for synchro-guide circuits.	205R1

### VERTICAL-OUTPUT TRANSFORMERS

Turns Ratio Primary to Secondary	DC Resistance Primary ohms	RCA Type
3:1	700	234T1
10:1	521	204T9
10:1	590	204T2
11.4:1	1200	222T1
18:1	1600	226T1*

\*Auto-transformer.

### VERTICAL-BLOCKING-OSCILLATOR TRANSFORMERS

Turns Ratio Primary to Secondary	DC Resistance		RCA Type
	Primary ohms	Secondary ohms	
1:4.2	244	1310	208T2
1:4.2	244	1310	208T9
1:4.2	208	1060	209T1

### HORIZONTAL-BLOCKING-OSCILLATOR TRANSFORMERS

Turns Ratio Primary to Secondary	DC Resistance		RCA Type
	Primary ohms	Secondary ohms	
1:2	3.5	8.5	208T1
1:2	3.5	8.5	208T3

### POWER TRANSFORMERS (117 VOLTS, 60 CPS)

Primary Winding Current amps	SECONDARY WINDINGS											
	Plate Winding		Filament No. 1		Filament No. 2		Filament No. 3		RCA Type			
	Full-Load Voltage volts	Max. DC Current amps	Voltage volts	Current amps	Voltage volts	Current amps	Voltage volts	Current amps				
2.20	770/385	0.230	5	3	6.3	9.0	5.0	2.0	201T7			
2.18	720/360	0.250	5	3	6.3	8.0	5.0	2.0	201T8*			
2.48	730/365	0.260	5	6	6.3	8.85	5.0	2.0	201T9			
2.48	730/365	0.260	5	6	6.3	8.85	6.3	1.2	201T10			

\*Type 201T8 has an additional filament winding: 6.3 volt @ 0.6 ampere.

### FOCUSING AND ALIGNMENT COILS

DC Resistance ohms	DC Current ma	For Kinescopes or Camera Tubes		RCA Type
		Typical Types		
140	40	6198, 6326		218D1*
150	30	5820, 5826		204D75*
247	120	10BP4-A, 12LP4-A		202D1
385	60	6198		217D1
2000	75	5820, 5826		202D75

\*Alignment coils

## RCA SPEAKERS

- Alnico V magnets used for all PM types.
- Rugged mechanical construction with welded housing assembly.
- Finest quality moisture-resistant cone and voice-coil suspension assures high efficiency and dependability.
- Dust-sealed construction.
- RETMA mounting standards are followed.
- Electroplated pot and frame to provide ample resistance to rust and corrosion.

### PERMANENT-MAGNET TYPES

Size inches	Voice-Coil Impedance ohms	Alnico V Magnet Weight ounces	Power Rating watts	RCA Type
2 3/4	12.	1.0	0.250	222S1
2 x 3	12.	1.0	0.125	214S1
3	3.2	1.0	2	216S1
3	3.2	1.47	2	231S1
4	3.2	0.68	3	223S1
4	3.2	1.0	3	304S2
4	3.2	1.47	3	404S2
4 x 6	3.2	0.68	3	246S2
4 x 6	3.2	1.0	3	227S1
4 x 6	3.2	1.47	3	446S2
5	3.2	0.68	3	205S2
5	3.2	1.0	3	228S1
5	3.2	1.47	3	405S2
5 3/4	3.2	1.0	4	217S1
5 x 7	3.2	1.47	6	257S1
5 x 7	3.2	2.15	6	233S1
5 x 7	3.2	3.16	7	232S1
6 1/2	3.2	1.0	4	229S1
6 1/2	3.2	1.47	5	224S1
6 1/2	3.2	3.16	6	230S1
6 x 9	3.2	2.15	8	238S1
6 x 9	3.2	2.33	8	235S1
8	3.2	2.15	8	208S2
8	6-8	2.15	8	208S4

## RCA SPEAKERS

### PERMANENT-MAGNET TYPES (cont'd)

Size inches	Voice-Coil Impedance ohms	Alnico V Magnet Weight ounces	Power Rating watts	RCA Type
8	3.2	3.16	8	225S1
8	3.2	6.8	9	234S1
10	3.2	2.15	7	236S1
10	3.2	3.16	8	237S1
10	6-8	6.8	10	215S1
12	3.2	2.15	12	112S1
12	3.2	2.9	12	226S1
12	3.2	6.8	12	412S6
12	6-8	6.8	12	412S7

### FIELD-COIL TYPES

Size inches	Voice-Coil Impedance ohms	FIELD-COIL		Power Rating watts	RCA Type
		DC Resistance, ohms	Current ma		
4 x 6	3.2	450	65	3	746S1
5	3.2	450	65	3	705S1
6 x 9	3.2	6	1000	8	869S1
12	3.2	1000	70	12	712S2

### HIGH FIDELITY SPEAKER

Size inches	Frequency Response cps	Resonant Frequency cps	Voice-Coil Impedance ohms
12	40 to 16000	55 to 65	8
	Alnico V Magnet Weight ounces	Power Rating watts	RCA Type
	14	8	502S1

## RCA SELENIUM RECTIFIERS

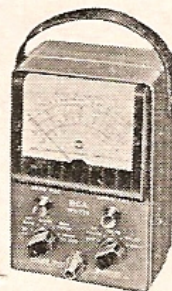
RCA Selenium Rectifiers are designed for general replacement use in TV, radio receivers, and phonographs. Advanced design, select raw materials, and superior workmanship make RCA Selenium Rectifiers a dependable line for virtually all service jobs.

- Smaller size . . . for any given current, they are smaller than other types.
- Quicker installation . . . integral mounting stud.
- Wide-open design . . . insures maximum heat dissipation, cooler operation . . . no center "hot spots."
- Rigid construction . . . for rugged service.

Max. Output ma	Max. Input volts	RCA Type	Min. Series Resistance ohms
65	130	205G1	33
75	130	200G1	22
100	130	206G1	22
150	130	201G1	15
200	130	207G1	5
250	130	208G1	5
300	130	202G1	5
350	130	209G1	5
400	130	203G1	5
500	130	204G1	5
400*	130	210G1	5
500*	130	211G1	5

\*Special thin types for use where available space will not permit use of type 203G1 or 204G1.

## Junior VoltOhmyst\*, RCA WV-77A



The RCA Junior VoltOhmyst embodies all the features of its famous predecessor plus many new extras. Using the reliable VoltOhmyst bridge circuit, a sensitive 200-microampere meter movement, and 1% carbon-film multiplier resistors, the all-electronic WV-77A incorporates features found only in more expensive instruments. As a DC Voltmeter, it measures from 0.05 volt to 1200 volts in five ranges . . . even

in presence of ac. Less than 2- $\mu$ mf input capacitance with 11-megohm input makes the WV-77A invaluable for dc measurements in AVC, oscillator, and other high-impedance circuits. As an AC Voltmeter, the WV-77A measures from 100 millivolts to 1200 volts (rms) in five ranges. High ac-input impedance of vacuum-tube diode signal rectifier permits use in many varied rf applications. Frequency range flat within 1 db from 30 cps to 3 Mc, depending on source impedance and voltage range setting 50 kc to 250 Mc when used with WG-264 probe. As a wide-range Ohmmeter, the WV-77A measures resistance from 0.2 ohm to 1-billion ohms in five ranges. Danger of burnout of low-current devices such as battery-tube filaments is minimized by use of 1.5-volt battery. Meter is electronically protected against burnout on all functions.

### Plus These New Extras

- Zero-centering facilities for discriminator alignment.
- DC polarity reversing switch eliminates need for test-lead switching.
- Ohms probe always positive for quick check of electrolytic capacitors.
- Degenerative bridge circuit provides freedom from line voltage changes.
- Completely shielded metal case for stability in rf fields and extra protection.

\*Registered Trademark, U.S. Patent Office