RCA REFERENCE BOOK 1956

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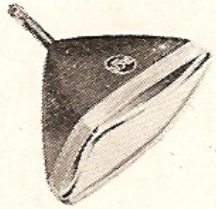
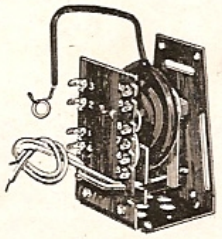
A compendium of valuable information on RCA Receiving Tubes, Picture Tubes, Cathode-Ray and Power Tubes, Batteries, Service Parts, Test and Measuring Equipment, Electronic Components, and Semiconductor Devices.





A diary for 1956.

Maps of the world today.

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RCA RECEIVING TUBE CHART

Miniature, Metal, GT, and other Receiving Types

Type	Name	Tube Dimensions and Socket Connections: Dimen.	S. C.	Cathode Type and Rating: C. T.	Volts	Amp.	Use (Values to right give operating conditions and characteristics for indicated typical use)	Plate Supply Volts	Grid Bias ■ Volts	Screen Supply Volts	Screen Current Ma.	Plate Current Ma.	AC Plate Resistance Ohms	Transconductance (Grid-plate) μmhos	Amplification Factor	Load for Stated Power Output Ohms	Power Output Watts
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	B9	5AP2	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	2.9	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 ◘	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 max. volts, 2.3 ma. Oscillator-Grid (#1) Resistor. Conversion Transcond., 300 micromhos.			
1A7-GT	Pentagrid Converter ◘	C3	GT-7Z4	D.C. F	1.4	0.05	Converter	90	0	45♣	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	8CP1	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 ◘	C3	GT-7Z4	D.C. F	1.4	0.10	Converter	90	0	45♣	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 ◘	D9	6L	D.C. F	2.0	0.12	Converter	For other characteristics, refer to Type 1C7-G.									
1C7-G	Pentagrid Converter ◘	D8	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 max. volts, 4.0 ma. Oscillator-Grid (#1) Resistor. 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§	720 750	—	—	—
1D5-GT	Remote-Cutoff Tetrode	D8	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 ◘	D8	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 90	− 4.5 − 9.0	45 90	0.3 1.0	1.6 5.0	300000 200000	650 925	—	20000 12000	0.035 0.200
							Triode Unit as Class A Amplifier	45 90	0 0	—	—	0.3 1.1	77000 43500	325 575	25 25	—	—
1E5-GP	RF Amplifier Pentode	D8	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§ 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▲	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-6X	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	D8	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§	650	—	—	—
							Pentode Unit as AF Amplifier	135	− 2.0	Screen Supply, 135 volts applied through 0.8-megohm resistor Grid Resistor,** 1.0 megohm. Voltage Gain, 46.							
1G4-GT	Medium-Mu Triode	C2b	G-5S7	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-6X	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: Dimen.	Tube Dimensions and Socket Connections: S. C.	Cathode Type and Rating: C. T.	Cathode Type and Rating: Volts	Cathode Type and Rating: Amp.	Use (Values to right give operating conditions and characteristics for indicated typical use)	Plate Supply Volts	Grid Bias ■ Volts	Screen Supply Volts	Screen Current Ma.	Plate Current Ma.	AC Plate Resistance Ohms	Transconductance (Grid-plate) µmhos	Amplification Factor	Load for Stated Power Output Ohms	Power Output Watts
1G6-GT	Twin-Triode Amplifier	C2b	G-7AB	D.C. F	1.4	0.10	Class B Amplifier	90	0	—	—	Power Output is for one tube at stated plate-to-plate load.				12000	0.350
1H4-G	Detector★ Amplifier	D3	G-5S7	D.C. F	2.0	0.06	Class A Amplifier	90 135 180	− 4.5 − 9.0 −13.5	—	—	2.5 3.0 3.1	11000 10300 10300	850 900 900	9.3 9.3 9.3	—	—
							Class B Amplifier	157.5	−15.0	—	—	1.0♠	—	—	—	8000	2.1†
1H5-GT	Diode High-Mu Triode	C3	GT-5Z4	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 1J6-GT	Twin-Triode Amplifiers	C10	G-7AB	D.C. F	2.0	0.24	Class B Amplifier	135 135	0 − 3.0	—	—	Power Output is for one tube at stated plate-to-plate load.				10000 10000	2.1 1.9
1L4	RF Amplifier Pentode	B0	6AR	D.C. F	1.4	0.05	Class A Amplifier	90 90	0 0	67.5 90	1.2 2.0	2.9 4.5	600000 260000	925 1025	—	—	—
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	5AD1	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	5AD2	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 90	0 0	45 45	0.35 0.30	1.10 1.15	700000 1.0§	750 775	— —	— —	— —
1LC6	Pentagrid Converter ◘	B5	7AK	D.C. F	1.4	0.05	Converter	45 90	0 0	35 35	0.75 0.70	0.70 0.75	300000 650000	Anode-Grid (#2): 50 max. volts, 1.4 ma. Oscillator-Grid (#1) Resistor, 0.2 meg. Conversion Transcond., 275 micromhos.			
1LD5	Diode-Pentode	B5	6AX	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 90	0 − 3	— —	— —	4.5 1.4	11200 19000	1300 760	14.5 14.5	— —	— —
1LG5	Remote-Cutoff Pentode	B5	7AO	D.C. F	1.4	0.05	Class A Amplifier	90 90	0 − 1.5	45 90	0.4 0.9	1.7 3.7	1.0§ 500000	800 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	1.1§	800	—	—	—
1N5-GT	Sharp-Cutoff Pentode	C3	GT-5Y4	D.C. F	1.4	0.05	Class A Amplifier	90	0	90	0.3	1.2	1.5§	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-5Y4	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 90	0 0	45 67.5	1.9 3.2	0.7 1.6	600000 600000	Grid #1 Resistor, 100000 ohms. Conversion Transcond., 300 µmhos.			
1S4	Power Amplifier Pentode	B0	7AV	D.C. F	1.4	0.1	Class A Amplifier	45 90	− 4.5 − 7.0	45 67.5	0.8 1.4	3.8 7.4	100000 100000	1250 1575	—	8000 8000	0.065 0.27
1S5	Diode-Pentode	B0	6AU	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 90	0 0	45 67.5	0.7 1.4	1.7 3.5	350000 500000	700 900	—	—	—
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	6DA	F	1.25	0.04	Pentode Unit as Class A Amplifier	30 45 67.5	0 0 0	30 45 67.5	0.10 0.21 0.4	0.33 0.75 1.6	500000 500000 400000	330 475 600	— — —	— — —	— — —
1U4	Sharp-Cutoff Pentode	B0	6AR	D.C. F	1.4	0.05	Class A Amplifier	90	0	90	0.50	1.0	1.0§	900	—	—	—
1U5	Diode-Pentode	B0	6BW	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. Max. DC Output Ma., 45									
1V2	Half-Wave Rectifier	B0a	9U	F	0.625	0.3	Pulsed Rectifier	Max. Peak Inverse Plate Volts, 7500 Max. Peak Plate Ma., 10 Max. Average Plate Ma., 0.5									
1X2-A	Half-Wave Rectifier	B4	9V	F	1.25	0.2	Half-Wave Rectifier	Max. Peak Inverse Plate Volts, 18000 Max. Peak Plate Ma., 10 Max. Average Plate Ma., 1									
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. Peak Plate Ma., 45 Max. Average Plate Ma., 0.5									
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
							Push-Pull Class AB1 Amplifier	300 300	Cath. Bias, 780 ohms♠ −62 volts, fixed bias			80.0♠ 80.0♠	—	—	—	5000 3000	10.0† 15.0†
2A4-G	Glow-Discharge Triode	D3	G-55T	D.C. F	2.5	2.5	Relay Service	Max. Peak Inverse Anode Volts, 200 Max. Peak Forward Anode Volts, 200 Max. Peak Anode Current, 1.25 ampere Max. Av. Anode Current, 0.1 ampere									

Discontinued types are shown in light face.

Type	Name	Tube Dimensions and Socket Connections: Dimen.	Tube Dimensions and Socket Connections: S. C.	Cathode Type and Rating: C. T.	Cathode Type and Rating: Volts	Cathode Type and Rating: Amp.	Use (Values to right give operating conditions and characteristics for indicated typical use)	Plate Supply Volts	Grid Bias ■ Volts	Screen Supply Volts	Screen Current Ma.	Plate Current Ma.	AC Plate Resistance Ohms	Transconductance (Grid-plate) µmhos	Amplification Factor	Load for Stated Power Output Ohms	Power Output Watts
2A5	Power Amplifier Pentode	D12	6B	H	2.5	1.75	Amplifier	For other characteristics, refer to Type 6F6-G.									
2A6	Duplex-Diode High-Mu Triode	D9	6G	H	2.5	0.8	Triode Unit as Amplifier	For other characteristics, refer to Type 6SQ7.									
2A7	Pentagrid Converter ▫	D9	7C	H	2.5	0.8	Converter	For other characteristics, refer to Type 6A8									
2AF4-A	UHF Oscillator Triode	B0	7DK	H	2.35	0.6	Class A Amplifier	80 100	Cath. Bias Res., 150 ohms			16 20	2270 2130	6600 7500	15 16	— —	— —
							Oscillator at 950 Mc.	100	Grid Bias Volts, −4 Grid Res., 10000 ohms			22	Grid Current (Approx.), 400 µamp. Useful Power Output, 160 milliwatts				
2B7	Duplex-Diode Pentode	D9	7D	H	2.5	0.8	Pentode Unit as Amplifier	For other characteristics, refer to Type 6B8-G.									
2E5	Electron-Ray Tube	D5	6R	H	2.5	0.8	Visual Indicator	For other characteristics, refer to Type 6E5.									
3A2	Half-Wave Rectifier	B4	9DT	H	3.15	0.22	Pulsed-Rectifier in Scanning Systems of TV Receivers	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	Pulsed-Rectifier in Scanning Systems of TV Receivers	Max Peak Inverse Plate Volts, 30000 Max Peak Plate Ma., 80 Max. Average Plate Ma., 1.5									
3A8-GT	Diode-Triode RF Amplifier Pentode	C6	8AS	D.C. F	1.4 2.8	0.1 0.05	Triode Unit as Class A Amplifier	90	0	—	—	0.2	200000	325	65	—	—
							Pentode Unit as Class A Amplifier	90	0	90	0.5	1.5	800000	750	—	—	—
3AL5	Twin-Diode	A1	6BT	H	3.15	0.6	Detector Rectifier	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	7BK1	H	3.15	0.6	Class A Amplifier	100 250	Cath Bias	100 150	2.1 4.3	5.0 10.6	500000 1.0§	3900 5200	Cath. Bias Res., 150 ohms Cath. Bias Res., 68 ohms		
3AV6	Twin-Diode High-Mu Triode	B0	7BT	H	3.15	0.6	Triode Unit as Class A Amplifier	100 250	− 1.0 − 2.0	— —	— —	0.5 1.2	80000 62500	1250 1600	100 100	— —	— —
3B2	Half-Wave Rectifier	E1a	26	H	3.15	0.22	Pulsed Rectifier in TV Service	Max DC Inverse Plate Volts, 25000 Max Peak 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	Sync Separator and Sync Clipper	10	0	25	3.5	1.4	Grid-No. 3 Volts, 0				

3BZ6	Semiremote-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 2.8	0.1 0.05	Class A Amplifier	For other characteristics, refer to Type 3Q5-GT.									
3Q4	Power Amplifier Pentode	B0	7BA	D.C. F	1.4 2.8	0.1 0.05	Class A Amplifier	For other characteristics, refer to Type 3V4									
3Q5-GT	Beam Power Tube	C2b	G-7AP	D.C. F	1.4 2.8	0.1 0.05	Class A Amplifier	110 110	− 6.6 − 6.6	110 110	1.4 1.1	10.0 8.5	100000 110000	2200 2000	—	8000 8000	0.40 0.33
3S4	Power Amplifier Pentode	B0	7BA	D.C. F	1.4 2.8	0.1 0.05	Class A Amplifier	90 90	− 7 − 7	67.5 67.5	1.4 1.1	7.4 6.1	100000 100000	1575 1425	—	8000 8000	0.27 0.235
3V4	Power Amplifier Pentode	B0	6BX	D.C. F	1.4 2.8	0.1 0.05	Class A Amplifier	90 90	− 4.5 − 4.5	90 90	2.1 1.7	9.5 7.7	100000 120000	2150 2000	—	10000 10000	0.27 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, ±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	180 250	− 8.5 −12.5	180 250	3.0 4.5	29.0 45.0	58000 52000	3700 4100	—	5500 5000	2.0 4.5
							Push-Pull Class AB_1 Amplifier	250	−15	250	5.0♠	70♠	60000	—	—	10000	10†
5AS4	Full-Wave Rectifier	E3a	G-5T‡	H	4.7	3.0	With Capacitive-Input Filter	Max. AC Volts per Plate (RMS), 550 Max. Peak Inverse Volts, 1550 Max. DC Output Ma., 300 Max. Peak Plate Ma., 1000 Min. Total Effect. Supply Imped. per Plate, 97 ohms									
							With Inductive-Input Filter	Max. AC Volts per Plate (RMS), 550 Max. Peak Inverse Volts, 1550 Max. DC Output Ma., 275 Max. Peak Plate Ma., 1000 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. Peak Plate Ma., 50 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	9AK	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 Plate Current, 6.2 Ma. Osc. Volts at Mixer Grid-No. 1 (RMS), 2.6 Mixer Grid-No. 1 Resistor, 120000 ohms Conversion Transconductance, 2100 µmhos								

Discontinued types are shown in light face.

RCA Type	Name	Tube Dimensions and Socket Connections: Dimen.	S. C.	Cathode Type and Rating: C. T.	Volts	Amp.	Use (Values to right give operating conditions and characteristics for indicated typical use)	Plate Supply Volts	Grid Bias ■ Volts	Screen Supply Volts	Screen Current Ma.	Plate Current Ma.	AC Plate Resistance Ohms	Transconductance (Grid-plate) µmhos	Amplification Factor	Load for Stated Power Output Ohms	Power Output Watts
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	B0	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. Peak Inverse Volts, 1550				Max. DC Output Ma., 225 Max. Peak Plate Ma., 675			Min. Total Effect. Supply Imped. per Plate, 150 ohms		
							With Inductive-Input Filter	Max. AC Volts per Plate (RMS), 550 Max. Peak Inverse Volts, 1550				Max. DC Output Ma., 225 Max. Peak Plate Ma., 675			Min. Value of Input Choke, 3 henries		
5U4-G	Full-Wave Rectifier	E2	G-5T‡	F	5.0	3.0	With Capacitive-Input Filter	Max. AC Volts per Plate (RMS), 450 Max. Peak Inverse Volts, 1550				Max. DC Output Ma., 225 Max. Peak Plate Ma., 675			Min. Total Effect. Supply Imped. per Plate, 170 ohms		
							With Inductive-Input Filter	Max. AC Volts per Plate (RMS), 550 Max. Peak Inverse Volts, 1550				Max. DC Output Ma., 225 Max. Peak Plate Ma., 675			Min. Value of Input Choke, 10 henries		
5U4-GB	Full-Wave Rectifier	D12aa	G-5T‡	H	5.0	3.0	With Capacitive-Input Filter	Max. AC Volts per Plate (RMS), 550 Max. Peak Inverse Volts, 1550				Max. DC Output Ma., 300 Max. Peak Plate Ma., 1000			Min. Total Effect. Supply Imped. per Plate, 97 ohms		
							With Inductive-Input Filter	Max. AC Volts per Plate (RMS), 550 Max. Peak Inverse Volts, 1550				Max. DC Output Ma., 275 Max. Peak Plate Ma., 1000			Min. Value of Input Choke, 10 henries		
5U8	Triode—Remote-Cutoff Pentode	B0a	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‡	H	5.0	2.0	With Capacitive-Input Filter	Max. AC Volts per Plate (RMS), 375 Max. Peak Inverse Volts, 1400				Max. DC Output Ma., 175 Max. Peak Plate Ma., 525			Min. Total Effect. Supply Imped. per Plate, 100 ohms		
							With Inductive-Input Filter	Max. AC Volts per Plate (RMS), 500 Max. Peak Inverse Volts, 1400				Max. DC Output Ma., 175 Max. Peak Plate Ma., 525			Min. Value of Input Choke, 4 henries		
5W4	Full-Wave Rectifiers	C2	5T	F	5.0	1.5	With Capacitive-Input Filter	Max. AC Volts per Plate (RMS), 350 Max. Peak Inverse Volts, 1400				Max. DC Output Ma., 100 Max. Peak Plate Ma., 300			Min. Total Effect. Supply Imped. per Plate, 50 ohms		
5W4-GT		C5	G-5T‡				With Inductive-Input Filter	Max. AC Volts per Plate (RMS), 500 Max. Peak Inverse Volts, 1400				Max. DC Output Ma., 100 Max. Peak Plate Ma., 300			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	B0a	9AK	H	4.7	0.6	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 Plate Current, 6.2 Ma.				Osc. Volts at Mixer Grid-No. 1 (RMS), 2.6 Mixer Grid-No. 1 Resistor, 120000 ohms Conversion Transconductance, 2100 µmhos				
5Y3-G	Full-Wave Rectifiers	D10	G-5T‡	F	5.0	2.0	With Capacitive-Input Filter	Max. AC Volts per Plate (RMS), 350 Max. Peak Inverse Volts, 1400				Max. DC Output Ma., 125 Max. Peak Plate Ma., 400			Min. Total Effect. Supply Imped. per Plate, 50 ohms		
5Y3-GT		C5	G-5T‡	F	5.0	2.0	With Inductive-Input Filter	Max. AC Volts per Plate (RMS), 500 Max. Peak Inverse Volts, 1400				Max. DC Output Ma., 125 Max. Peak Plate Ma., 400			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	5L	H	5.0	2.0	With Capacitive-Input Filter	Max. AC Volts per Plate (RMS), 350 Max. Peak Inverse Volts, 1400				Max. DC Output Ma., 125 Max. Peak Plate Ma., 375			Min. Total Effect. Supply Imped. per Plate, 50 ohms		
							With Inductive-Input Filter	Max. AC Volts per Plate (RMS), 500 Max. Peak Inverse Volts, 1400				Max. DC Output Ma., 125 Max. Peak Plate Ma., 375			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	−6.5	100	1.6	9.0	83250	1200	—	11000	0.31
								180	−12.0	180	3.9	22.0	45500	2200		8000	1.40
6A6	Twin-Triode Amplifier	D12	7B	H	6.3	0.8	Amplifier	For other characteristics, refer to Type 6N7-GT.									
6A7	Pentagrid Converters ◘	D9	7C	H	6.3	0.3	Converter	For other characteristics, refer to Type 6A8.									
6A7S																	
6A8	Pentagrid Converters ◘	C1	8A	H	6.3	0.3	Converter	100	−1.5	50	1.3	1.1	600000	Anode-Grid (#2): 250 max. v, 4.0 ma. Oscillator-Grid (#1) Res. ◘. Conversion Transcond., 550 µmhos.			
6A8-G		D8	G-8A‡					250	−3.0	100	2.7	3.5	360000				
6A8-GT		C3	GT-8A‡														
6AB4	High-Mu Triode	B0	5CE	H	6.3	0.15	Class A Amplifier	100	Cath. Res., 270 ohms			3.7	15000	4000	60	—	—
								250	Cath. Res., 200 ohms			10.0	10900	5500	60	—	—
6AB5/6N5	Electron-Ray Tube Indicator Type	D4	6R	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	—	—	—
							Class B Amplifier	250	0	—	—	5.0♠	—	—	—	10000	8.0†
6AC5-GT	High-Mu Power Amplifier Triode	C2b	G-6Q‡	H	6.3	0.4	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§	9000	Cathode-Bias Resistor, 160 ohms		
6AD6-G	Electron-Ray Tube Twin Indicator Type	B5a	7AG	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: Dimen.	S. C.	Cathode Type and Rating: C. T.	Volts	Amp.	Use — Values to right give operating conditions and characteristics for indicated typical use	Plate Supply Volts	Grid Bias ■ Volts	Screen Supply Volts	Screen Current Ma.	Plate Current Ma.	AC Plate Resistance Ohms	Transconductance (Grid-plate) µmhos	Amplification Factor	Load for Stated Power Output Ohms	Power Output Watts
6AD7-G	Triode-Power Amplifier Pentode	D10	8AY	H	6.3	0.85	Triode Unit as Class A Amplifier	250	−25.0	—	—	3.7	19000	325	6	—	—
							Pentode Unit as Class A Amplifier	250	−16.5	250	6.5	34.0	80000	2500	—	7000	3.2
							Pentode Unit With 6F6-G as Push-Pull Class AB1 Amplifier	375	Cath. Bias	250	6.7♠	41.0♠	Cathode-Bias Resistor, 470 ohms♠			16000	9.0†
6AE5-GT	Amplifier Triode	C5	G-6Q‡	H	6.3	0.3	Class A Amplifier	95	−15.0	—	—	7.0	3500	1200	4.2	—	—
6AE6-G	Twin-Plate Control Tube	D3	7AH	H	6.3	0.15	Remote Cutoff Triode	250 250	− 1.5 −35.0	— —	— —	6.5 0.01	25000 —	1000 —	25 —	— —	— —
							Remote Cutoff Triode	250 250	− 1.5 − 9.5	— —	— —	4.5 0.01	35000 —	950 —	33 —	— —	— —
6AE7-GT	Twin-Input Triode Amplifier	C2b	G-7AX	H	6.3	0.5	Class A Amp.▲▲	250	−13.5	—	—	10.0	4650	3000	14	—	—
							Driver For Push-Pull 6AC5-GT In Dynamic-Coupled Amplifier	250	Bias for both 6AC5-GT and 6AE7-GT developed in coupling circuit. Zero-Signal Plate Current of 6AE7-GT = 10 milliamperes. Zero-Signal Plate Current of 6AC5-GT = 64 milliamperes. Power Output is for two 6AC5-GT at stated plate-to-plate load.							10000	9.5
6AF4	UHF Oscillator Triode	B0	7DK	H	6.3	0.225	Class A Amplifier	100	Cathode Bias Res., 150 ohms			16 20	2270 2130	6600 7500	15 16	— —	— —
							Oscillator at 950 Mc.	100	Grid Bias Volts, −4 Grid Res., 10000 ohms			22	Grid Current (Approx.), 400 µamp Useful Power Output, 160 milliwatts				
6AF4-A	Medium-Mu Triode	A1	7DK	H	6.3	0.225	Class A Amplifier Oscillator at 950 Mc	For other characteristics, refer to type 6AF4									
6AF6-G	Electron-Ray Tube Twin Indicator Type	B0c	7AG	H	6.3	0.15	Visual Indicator	Target Voltage, 125 volts. Control-Electrode Voltage, 0 volts; Shadow Angle, 95°; Target Current, 0.65 ma. Control-Electrode Voltage, 80 volts; Angle, 0°. Target Voltage, 250 volts. Control-Electrode Voltage, 0 volts; Shadow Angle, 95°; Target Current, 2.2 ma. Control-Electrode Voltage, 160 volts, Angle, 0°.									
6AG5	Sharp-Cutoff Pentode	B0	7BD	H	6.3	0.3	As Pentode Class A Amplifier	100 250	Cath. Bias	100 150	1.4 2.0	4.5 6.5	600000 800000	4500 5000	Cath. Bias Res., 180 ohms Cath. Bias Res., 180 ohms		
							As Triode□ Class A Amplifier	180 250	Cath. Bias	— —	— —	7.0 5.5	8000 10000	5700 3800	Cath. Bias Res., 330 ohms Cath. Bias Res., 820 ohms		
6AG7	Power Pentode	C2	8Y	H	6.3	0.65	Class A Amplifier 4-Mc. Bandwidth Video Circuit	300	Cath. Bias − 2.0	125	7.0	28.0	Cathode-Bias Resistor, 57 ohms. Load Resistance, 3500 ohms. Peak-to-Peak Volts Output, 140 approx.				

Type	Name	Dimen.	S. C.	C. T.	Volts	Amp.	Use	Plate Supply Volts	Grid Bias ■ Volts	Screen Supply Volts	Screen Current Ma.	Plate Current Ma.	AC Plate Resistance Ohms	Transconductance µmhos	Amplification Factor	Load Ohms	Power Output Watts
6AH4-GT	Medium-Mu Triode	C2b	8EL	H	6.3	0.75	Vertical Deflection Amplifier in TV Receivers	Max. DC Plate Volts, 500 Max. DC Cathode Ma., 60					Max. Peak Positive-Pulse Plate Volts, 2000 Max. Plate Dissipation, 7.5 watts				
6AH6	Sharp-Cutoff Pentode	B0	7BK	H	6.3	0.45	Class A Amplifier	300	Cath. Bias	150	2.5	10.0	500000	9000	Cath. Res., 160 ohms		
6AK5	Sharp-Cutoff Pentode	A1	7BD	H	6.3	0.175	Class A Amplifier	120 180	Cath. Bias	120 120	2.5 2.4	7.5 7.7	300000 500000	5000 5100	Cath. Res., 180 ohms		
6AK6	Power Amplifier Pentode	B0	7BK	H	6.3	0.15	Class A Amplifier	180	− 9.0	180	2.5	15	200000	2300	—	10000	1.1
6AL5	Twin Diode	A1	6BT	H	6.3	0.3	Detector Rectifier	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				
6AL7-GT	Electron-Ray Tube Indicator Type	C0a	8CH	H	6.3	0.15	Visual Indicator	Target Voltage, 315 volts Grid Voltage = 0 volts Cathode Bias Res., 3300 ohms approx.					Grid Voltage for Pattern Cutoff, −7 volts approx. Deflecting-Electrodes—No. 1, No. 2 and No. 3 Voltage = 0■				
6AM8	Diode—Sharp-Cutoff Pentode	B0a	27	H	6.3	0.45	Diode Unit	Max. DC Plate Ma., 5					Max. Peak Heater-Cathode Volts, ±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		
6AN8	Triode—Sharp-Cutoff Pentode	B0a	9DA	H	6.3	0.45	Triode Unit as Class A Amplifier	200	− 6	—	—	13.0	5750	3300	19	—	—
							Pentode Unit as Class A Amplifier	200	Cath. Bias	150	2.8	9.5	300000	6200	—	Cath. Res., 180 ohms	
6AQ5	Beam Power Tube	B1	7DZ	H	6.3	0.45	Single Tube Class A Amplifier	180 250	− 8.5 −12.5	180 250	3.0 4.5	29.0 45.0	58000 52000	3700 4100	— —	5500 5000	2.0 4.5
							Push-Pull Class AB1 Amplifier	250	−15.0	250	5.0♠	70.0♠	60000	—	—	10000	10.0†
6AQ6	Twin-Diode High-Mu Triode	B0	7BT	H	6.3	0.15	Triode Unit as Class A Amplifier	100 250	− 1.0 − 3.0	—	—	0.8 1.0	61000 58000	1150 1200	70 70	—	—
6AQ7-GT	Twin-Diode High-Mu Triode	C2b	8CK	H	6.3	0.3	Triode Unit as Class A Amplifier	250	− 2	—	—	2.3	44000	1600	70	—	—
6AR5	Power Pentode	B1	6CC	H	6.3	0.4	Class A Amplifier	250 250	−16.5 −18	250 250	5.7 5.5	34.0 32.0	65000 68000	2400 2300	— —	7000 7600	3.2 3.4
6AS5	Beam Power Tube	B1	7CV	H	6.3	0.8	Class A Amplifier	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	DC Amplifier	135	Cath. Res., 250 ohms			125	280	7000	2.0	—	—
							Booster Tube for Television Scanning	Max. Peak Inverse Plate Volts, 1700 Max. Heater—Cathode Volts, ±300					Max. Peak Plate Current (Per Plate), 125 ma Max. Plate Dissipation (Per Plate), 13 watts				
6AS8	Diode—Sharp-Cutoff Pentode	B0a	9DS	H	6.3	0.45	Diode Unit	Max. Peak Inverse Plate Volts, 330 Max. Peak Plate Ma., 50					Max. Average Plate Ma., 5.0				
							Pentode Unit as Class A Amplifier	200	Cath. Bias	150	3.0	9.5	300000	6200	Cath. Res., 180 ohms		
6AT6	Twin-Diode High-Mu Triode	B0	7BT	H	6.3	0.3	Triode Unit as Class A Amplifier	100 250	− 1.0 − 3.0	— —	— —	0.8 1.0	54000 58000	1300 1200	70 70	— —	— —

*Discontinued types are shown in light face.

Type	Name	Tube Dimensions and Socket Connections: Dimen.	Tube Dimensions and Socket Connections: S. C.	Cathode Type and Rating: C. T.	Cathode Type and Rating: Volts	Cathode Type and Rating: Amp.	Use (Values to right give operating conditions and characteristics for indicated typical use)	Plate Supply Volts	Grid Bias ■ Volts	Screen Supply Volts	Screen Current Ma.	Plate Current Ma.	AC Plate Resistance Ohms	Transconductance (Grid-plate) µmhos	Amplification Factor	Load for Stated Power Output Ohms	Power Output Watts
6AT8	Triode—Pentode Converter	B0a	9AK	H	6.3	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 Plate Current, 6.2 Ma.						Osc. Volts at Mixer Grid-No. 1 (RMS), 2.6 Mixer Grid-No. 1 Resistor, 120000 ohms Conversion Transconductance, 2100 µmhos		
6AU4-GT	Half-Wave Rectifier	C10b	4CG	H	6.3	1.8	Television Damper Service	Max. Peak Inverse Plate Volts, 4500 (Absolute) Max. Peak Plate Ma., 1050							Max. Average Plate Ma., 175 Max. Plate Dissipation 6.0 watts		
6AU4-GTA	Half-Wave Rectifier	C10b	4CG	H	6.3	1.8	Television Damper Service	Max. Peak Inverse Plate Volts, 4500 (Absolute) Max. Peak Plate Ma., 1150							Max. Average Plate Ma., 190 Max. Plate Dissipation, 6.0 Watts		
6AU5-GT	Beam Power Tube	C2b	6CK	H	6.3	1.25	Horizontal Deflection Amplifier in TV Receivers	Max. DC Plate Volts, 550; Max. DC Cathode Ma., 110							Max. Peak Positive-Pulse Plate Volts, 5500 Absolute Max. Plate Dissipation, 10 watts		
6AU6	Sharp-Cutoff Pentode	B0	7BK₁	H	6.3	0.3	Class A Amplifier	100 250	Cath. Bias	100 150	2.1 4.3	5.0 10.6	500000 1.0§	3900 5200	Cath. Bias Res., 150 ohms Cath. Bias Res., 68 ohms		
6AU7	Medium-Mu Twin-Triode	B0a	9A	H	3.15 6.3	0.6 0.3	Each Unit as Class A Amplifier	100 250	0 − 8.5	— —	— —	13 10.5	6300 7950	3500 2200	22 17.5	— —	— —
6AV5-GT	Beam Power Tube	C2b	6CK	H	6.3	1.2	Horizontal Deflection Amplifier in TV Receivers	Max. DC Plate Volts, 550; Max. DC Cathode Ma., 110							Max. Peak Positive-Pulse Plate Volts, 5500 Max. Plate Dissipation, 11 watts		
6AW8	High-Mu Triode—Sharp-Cutoff Pentode	B3	28	H	6.3	0.6	Triode Unit as Class A Amplifier	200	−2	—	—	4	17500	4000	70	—	—
							Pentode Unit as Class A Amplifier	200	Cath. Bias	150	3.5	13	400000	9000	Cath. Res., 180 ohms		
6AV6	Twin-Diode High-Mu Triode	B0	7BT	H	6.3	0.3	Triode Unit as Class A Amplifier	100 250	− 1.0 − 2.0	— —	— —	0.5 1.2	80000 62500	1250 1600	100 100	— —	— —
6AX4-GT	Half-Wave Rectifier	C2b	20	H	6.3	1.2	Television Damper Service	Max. Peak Inverse Plate Volts, 4000 Max. Peak Plate Ma., 750 Max. DC Plate Ma., 125							Max. Peak Heater-Cathode Volts: {−4000**, +300} **DC component must not exceed 900 volts.		
6AX5-GT	Full-Wave Rectifier	C2b	G-6S	H	6.3	1.2	With Capacitive-Input Filter	Max. AC Volts per Plate (RMS), 450 Max. Peak Inverse Volts, 1250					Max. DC Output Ma., 80 Max. Peak Plate Ma., 375		Min. Total Effec. Supply Imped. per Plate, 105		
							With Inductive-Input Filter	Max. AC Volts per Plate (RMS), 450 Max. Peak Inverse Volts, 1250					Max. DC Output Ma., 125 Max. Peak Plate Ma., 375		Min. Value of Input Choke, 10 henries		
6AZ8	Medium-Mu Triode—Semiremote-Cutoff Pentode	B0a	29	H	6.3	0.45	Triode Unit as Class A Amplifier	200	− 6	—	—	13	5750	3300	19	—	—
							Pentode Unit as Class A Amplifier	200	Cath. Bias	150	3	9.5	300000	6000	Cath. Res., 180 ohms		

Type	Name	Dimen.	S. C.	C. T.	Volts	Amp.	Use	Plate Supply Volts	Grid Bias ■ Volts	Screen Supply Volts	Screen Current Ma.	Plate Current Ma.	AC Plate Resistance Ohms	Transconductance (Grid-plate) µmhos	Amplification Factor	Load for Stated Power Output Ohms	Power Output Watts
6B4-G	Power Amplifier Triode	E2	G-5S₈	F	6.3	1.0	Class A Amplifier	250	−45.0	—	—	60.0	800	5250	4.2	2500	3.20
							Push-Pull Class AB₁ Amplifier	325 325	Cath. Bias, 850 ohms♠ −68 volts, fixed bias			80.0♠ 80.0♠	—	—	—	5000 3000	10.0† 15.0†
6B5	Direct-Coupled Power Amplifier	D12	6AS	H	6.3	0.8	Class A Amplifier	For other characteristics, refer to Type 6N6-G.									
6B6-G	Twin-Diode High-Mu Triode	D8	G-7V‡	H	6.3	0.3	Triode Unit as Amplifier	For other characteristics, refer to Type 6SQ7.									
6B7 6B7S	Twin-Diode Remote-Cutoff Pentode	D9	7D	H	6.3	0.3	Pentode Unit as Amplifier	Input Triode: Plate Volts, 300 max; Grid Volts, 0; Plate Ma., 8; AF Signal Volts (Peak), 21 Output Triode: Plate Volts, 300 max.; Plate Ma., 45; Plate Res., 24000 ohms; Load Resistance, 7000 ohms; Power Output, 4 watts.									
6B8	Twin-Diode Pentode	C1	8E	H	6.3	0.3	Pentode Unit as Amplifier	For other characteristics, refer to Type 12C8.									
6B8-G	Twin Diode—Remote-Cutoff Pentode	D8	G-8E‡	H	6.3	0.3	Pentode Unit as RF Amplifier	100 250	− 3.0 − 3.0	100 125	1.7 2.3	5.8 9.0	300000 600000	950 1125	—	—	—
							Pentode Unit as AF Amplifier	90 ✕ 300 ✕	Cath. Bias, 3500 ohms. Screen Resistor = 1.1 meg. Cath. Bias, 1600 ohms. Screen Resistor = 1.2 meg.					Grid Resistor,** 0.5 megohm,		{Gain per stage = 55 Gain per stage = 79}	
6BA6	Remote-Cutoff Pentode	B0	7BK₁	H	6.3	0.3	Class A Amplifier	100 250	Cath. Bias	100 100	4.4 4.2	10.8 11.0	250000 1.0	4300 4400	Cath. Bias Res., 68 ohms Cath. Bias Res., 68 ohms		
6BA7	Pentagrid Converter ▲	B3	8CT	H	6.3	0.3	Converter	100 250	− 1.0 − 1.0	100 100	10.2 10.0	3.6 3.8	500000 1.0§	Grid-No. 1 Resistor, 20000 ohms Conversion Transcond., 950 micromhos			
6BC4	Medium-Mu Triode	A1b	9DR	H	6.3	0.225	Class A Amplifier	150	Cath. Bias	—	—	14.5	4800	10000	48	Cath. Res., 100 ohms	
6BC5	Sharp-Cutoff Pentode	B0	7BD	H	6.3	0.3	Class A Amplifier	250	Cath. Bias	150	2.1	7.5	800000	5700	Cath. Bias Res., 180 ohms		
6BC7	Triple Diode	B0a	9D	H	6.3	0.45	DC Restorer in Color TV	Each Diode: {Max. Peak Inverse Plate Volts, 300 Max. Peak Plate Ma., 54}							Max. Average Plate Ma., 12		
6BD4	Sharp-Cutoff Beam Triode	E0	26	H	6.3	0.6	Voltage-Control	Max. DC Plate Volts, 20000 Max. Unregulated DC Supply Volts, 40000							Max. DC Plate Ma., 1.5 Max. Plate Dissipation, 20.0 watts		
6BD4-A	Sharp-Cutoff Beam Triode	E0	27	H	6.3	0.6	Voltage-Control	Max. DC Plate Volts, 27000 Max. Unregulated DC Supply Volts, 55000							Max. DC Plate Ma., 1.5 Max. Plate Dissipation, 25.0 watts		
6BD6	Remote-Cutoff Pentode	B0	7CC	H	6.3	0.3	Class A Amplifier	100 250	− 1 − 3	100 100	5.0 3.0	13.0 9.0	150000 800000	2550 2000	— —	— —	— —
6BE6	Pentagrid Converter▲	B0	7CH	H	6.3	0.3	Converter	100 250	− 1.5 − 1.5	100 100	7.0 6.8	2.6 2.9	400000 1.0§	Grid #1 Resistor, 20000 ohms Conversion Transcond., 475 micromhos			
6BF5	Beam Power Tube	B1	7BZ	H	6.3	1.2	Class A Amplifier	110	−7.5	110	4.0	36.0	12000	7500	—	2500	1.9
							Vertical Deflection Amplifier in TV Receivers□	Max. DC Plate Volts, 250 Max. DC Cathode Ma. 40							Absolute Max. Peak Positive-Pulse Plate Volts, 900 Max. Plate Dissipation, 5 watts		
6BF6	Twin-Diode Triode	B0	7BT	H	6.3	0.3	Triode Unit as Class A Amplifier	250	− 9.0	—	—	9.5	8500	1900	16	Power Output, 300 milliwatts	
6BG6-G	Beam Power Tube	F1	5BT	H	6.3	0.9	Horizontal Deflection Amplifier in TV Receivers	Max. DC Plate Volts, 700 Max. DC Plate Ma., 100							Max. Peak Positive-Pulse Plate Volts, 6000 Max. Plate Dissipation, 20 watts		

Discontinued types are shown in light face.

Type	Name	Tube Dimensions and Socket Connections: Dimen.	S. C.	Cathode Type and Rating: C. T.	Volts	Amp.	Use (Values to right give operating conditions and characteristics for indicated typical use)	Plate Supply Volts	Grid Bias Volts	Screen Supply Volts	Screen Current Ma.	Plate Current Ma.	AC Plate Resistance Ohms	Transconductance (Grid-plate) μmhos	Amplification Factor	Load for Stated Power Output Ohms	Power Output Watts
6BH6	Sharp-Cutoff Pentode	B0	7CM	H	6.3	0.15	Class A Amplifier	100 250	− 1.0 − 1.0	100 150	1.4 2.9	3.6 7.4	700000 1.4§	3400 4600	—	—	—
6BJ6	Remote-Cutoff Pentode	B0	7CM	H	6.3	0.15	Class A Amplifier	100 250	− 1.0 − 1.0	100 100	3.5 3.3	9.0 9.2	250000 1.3§	3650 3600	—	—	—
6BK4	Sharp-Cutoff Beam Triode	E2a	34	H	6.3	0.2	Voltage-Control	Max. DC Plate Volts, 25000 Max. Unregulated DC Supply Volts, 55000						Max. DC Plate Ma., 1.5 Max. Plate Dissipation, 25 Watts			
6BK5	Beam Power Tube	B3	35	H	6.3	1.2	Class A Amplifier	250	− 5	250	3.5	35	100000	8500	—	6500	3.5
6BK7-A	Medium-Mu Twin Triode	B0a	9AJ	H	6.3	0.45	Each Unit as Class A Amplifier	150	Cathode Bias Res., 56 ohms			18	4600	9300	43	Cutoff Volts, −11	
6BL4	Half-Wave Rectifier	D8b	36	H	6.3	3.0	Television Damper Service	Max. Peak Inverse Plate Volts, 4500 (Abs.) Max. Peak Plate Ma., 1200 Max. DC Plate Ma., 200						Max. Peak Heater-Cathode Volts −4500* (Abs.) +300 *DC component not to exceed −900 volts			
6BL7-GT	Medium-Mu Twin Triode	C2b	8BD	H	6.3	1.5	Vertical Deflection Amplifier in TV Receivers	Max. DC Plate Volts, 500 Max. DC Cathode Ma. (Each Unit), 60						Max. Peak Positive-Pulse Plate Volts, 1800 Max. Plate Dissipation (Each Unit), 10 watts			
6BQ6-GT	Beam Power Tube	C11	6AM	H	6.3	1.2	Horizontal Deflection Amplifier in TV Receivers	Max. DC Plate Volts, 550 Max. DC Cathode Ma., 110						Max. Peak Positive-Pulse Plate Volts, 5500 Max. Plate Dissipation, 11 watts			
6BQ7	Medium-Mu Twin Triode	B0a	9AJ	H	6.3	0.4	Each Unit as Class A Amplifier	150	Cathode Bias Res., 220 ohms			9.0	5800	6000	35	Cutoff Volts, −10	
6BQ6-GTB/6CU6	Beam Power Tube	C11	6AM	H	6.3	1.2	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	6.3	0.4	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	6.3	1.6	Television Damper Service	Max. Peak Inverse Plate Volts, 3000 (Abs.) Max. Peak Plate Ma., 525 Max. DC Plate Ma., 175								Peak Heater-Cathode Volts: +100 Max., −450 Max.	
6BY6	Pentagrid Amplifier	B0	7CH	H	6.3	0.3	Sync Separator and Sync Clipper	10	0	25	3.5	1.4	Grid-No. 3 Volts, 0				
6BZ6	Semiremote-Cutoff Pentode	B0	7CM	H	6.3	0.3	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	6.3	0.4	Each Unit as Class A Amplifier	150	Cathode Bias Res., 220 ohms			10	5600	6800	38	Cutoff Volts, −11	

Type	Name	Dimen.	S. C.	C. T.	Volts	Amp.	Use	Plate Supply Volts	Grid Bias Volts	Screen Supply Volts	Screen Current Ma.	Plate Current Ma.	AC Plate Resistance Ohms	Transconductance (Grid-plate) μmhos	Amplification Factor	Load for Stated Power Output Ohms	Power Output Watts
6C4	HF Power Triode	B0	6BG	H	6.3	0.15	Class A Amplifier	100 250	0 − 8.5	—	—	11.8 10.5	6250 7700	3100 2200	19.5 17	—	—
							Class C Amplifier	300	−27.0	—	—	25.0	Grid Current, 7 ma. Driving Power, 0.35 watt			—	5.5
6C5 6C5-GT	Medium-Mu Triodes	B2 C3	6Q GT-6Q	H	6.3	0.3	Class A Amplifier	250	− 8.0	—	—	8.0	10000	2000	20	—	—
								90♥ 300♥	Cath. Bias, 6400 ohms. Cath. Bias, 5300 ohms.			Grid Resistor,** 0.25 megohm.				Gain per stage = 11 Gain per stage = 13	
							Bias Detector	250	−17.0 approx. Plate current to be adjusted to 0.2 milliampere with no signal.								
6C6	Sharp-Cutoff Pentode	D13	6F	H	6.3	0.3	Amplifier Detector	For other characteristics, refer to Type 6J7.									
6C7	Twin-Diode Triode	D9	7G	H	6.3	0.3	Triode Unit as Class A Amplifier	250	− 9.0	—	—	4.5	16000	1250	20	—	—
6C8-G	Twin-Triode Amplifier	D8	G-8G	H	6.3	0.3	Each Unit as Amplifier	250	− 4.5	—	—	3.2	22500	1600	36	—	—
6CB5	Beam Power Tube	E0a	30	H	6.3	2.5	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	6.3	0.3	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	6.3	2.5	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	6.3	0.3	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	6.3	0.6	Horizontal Deflection Oscillator in TV Receivers	Max. DC Plate Volts, 300 Max. Peak Neg.-Pulse Grid Volts, 600					Max. Peak Cathode Ma., 300 Max. DC Cathode Ma., 20		Dissipation Watts either plate, 3.5; both plates, 5.		
							Vertical Deflection Oscillator in TV Receivers	Max. DC Plate Volts, 300 Max. Peak Neg.-Pulse Grid Volts, 400					Max. Peak Cathode Ma., 70 Max. DC Cathode Ma., 20		Dissipation Watts either plate, 3.5; both plates, 5.		
6CL6	Power Pentode	B3	25	H	6.3	0.65	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.				
6CM7	Medium-Mu Dual Triode With Dissimilar Units	B3	31	H	6.3	0.6	Vertical Deflection Oscillator in TV Receivers	Unit No. 1: Max. DC Plate Volts, 500 Max. Peak Neg.-Pulse Grid Volts, 200					Max. Peak Cathode Ma., 70 Max. DC Cathode Ma., 15		Max. Plate Dissipation Watts, 1.25		
							Vertical Deflection Amplifier in TV Receivers	Unit No. 2: Max. DC Plate Volts, 500 Max. Peak Positive-Pulse Plate Volts, 2200 (Abs.)							Max. Peak Neg.-Pulse Grid Volts, 200 Max. Peak Cathode Ma., 70		
6CS6	Pentagrid Amplifier	B0	7CH	H	6.3	0.3	Sync Separator and Sync Clipper	10	0	30	4.1	1.2	Grid-No. 3 Volts = 0				
6D6	Remote-Cutoff Pentode	D13	6F	H	6.3	0.3	Amplifier Mixer	For other characteristics, refer to Type 6U7-G.									
6D7	Sharp-Cutoff Pentode	D13	7H	H	6.3	0.3	Amplifier Detector	For other characteristics, refer to Type 6J7.									

Discontinued types are shown in light face.

Type	Name	Tube Dimensions and Socket Connections: Dimen.	Tube Dimensions and Socket Connections: S. C.	Cathode Type and Rating: C. T.	Cathode Type and Rating: Volts	Cathode Type and Rating: Amp.	Use (Values to right give operating conditions and characteristics for indicated typical use)	Plate Supply Volts	Grid Bias ■ Volts	Screen Supply Volts	Screen Current Ma.	Plate Current Ma.	AC Plate Resistance Ohms	Transconductance (Grid-plate) umhos	Amplification Factor	Load for Stated Power Output Ohms	Power Output Watts
6D8-G	Pentagrid Converter ●	D8	G-8A‡	H	6.3	0.15	Converter	135 250	− 3.0 − 3.0	67.5 100	1.7 2.6	1.5 3.5	600000 400000	Anode-Grid (#2): 250 ■ max. volts, 4.3 ma. Oscillator-Grid (#1) Resistor ●. Conversion Transcond., 550 micromhos.			
6DC6	Semiremote-Cutoff Pentode	B0	7CM	H	6.3	0.3	Class A Amplifier	200	Cath. Bias	150	3.0	9.0	500000	5500	Cath. Res., 180 ohms		
6DE6	Sharp-Cutoff Pentode	B0	7CM	H	6.3	0.3	Class A Amplifier	200	Cath. Bias	150	2.8	9.5	0.6	6200	Cath. Bias Res., 180 ohms		
6E5	Electron-Ray Tube	D4	6R	H	6.3	0.3	Visual Indicator	Plate & Target Supply = 125 volts. Triode Plate Resistor = 1.0 meg. Target Current = 0.8 ma. Grid Bias, −4.0 volts; Shadow Angle, 0°. Bias, 0 volts; Angle, 90°; Plate Current, 0.1 ma. Plate & Target Supply = 250 volts. Triode Plate Resistor = 1.0 meg. Target Current = 2.0 ma. Grid Bias, −7.5 volts; Shadow Angle, 0°. Bias, 0 volts; Angle, 90°; Plate Current, 0.2 ma.									
6E6	Twin-Triode Power Amplifier	D12	7B	H	6.3	0.6	Push-Pull Class A Amplifier	180 250	−20.0 −27.5	—	—	Power Output is for one tube at stated plate-to-plate load.				15000 14000	0.75 1.60
6E7	Remote-Cutoff Pentode	D13	7H	H	6.3	0.3	Amplifier	For other characteristics, refer to Type 6U7-G.									
6F5	High-Mu Triode	C1	5M₁	H	6.3	0.3	Amplifier	For other characteristics, refer to Type 6SF5.									
6F5-GT	High-Mu Triode	C2b	G-5M₁‡	H	6.3	0.3	Amplifier	For other characteristics, refer to Type 6SF5.									
6F6	Power Pentodes	C2	7S	H	6.3	0.7	Pentode Class A Amplifier	250 285	−16.5 −20.0	250 285	6.5 7.0	34.0 38.0	80000 78000	2500 2550	—	7000 7000	3.2 4.8
							Triode□ Class A Amplifier	250	−20.0	—	—	31.0	2600	2600	6.8	4000	0.85
							Pentode Push-Pull Class A Amplifier	315 315	Cath. Bias −24.0	285 285	12.0♠ 12.0♠	62.0♠ 62.0♠	Cath. Bias Resistor, 320 ohms♠			10000 10000	10.5† 11.0†
6F6-G		D10	G-7S‡				Pentode Push-Pull Class AB_2 Amplifier	375 375	Cath. Bias −26.0	250 250	8.0♠ 5.0♠	54.0♠ 34.0♠	Cath. Bias Resistor, 340 ohms♠			10000 10000	19.0† 18.5†
6F6-GT		C10	G-7S‡				Triode Push-Pull□ Class AB_2 Amplifier	350 350	Cath. Bias −38.0	—	—	50.0♠ 48.0♠	Cath. Bias Resistor, 730 ohms♠			10000 6000	9.0† 13.0†
6F7	Triode—Remote-Cutoff Pentode	D9	7E	H	6.3	0.3	Triode Unit as Class A Amplifier	100	− 3.0 min.	—	—	3.5	16000	500	8	—	—
							Pentode Unit as Class A Amplifier	100 250	− 3.0 min.	100 100	1.6 1.5	6.3 6.3	290000 850000	1050 1100	—	—	—
							Pentode Unit as Mixer	250	−10.0	100	0.6	2.8	Oscillator Peak Volts = 7.0. Conversion Transcond. = 300 micromhos.				
6F8-G	Twin-Triode Amplifier	D8	G-8G	H	6.3	0.6	Each Unit as Amplifier	For other characteristics, refer to Type 6J5.									

Type	Name	Dimen.	S. C.	C. T.	Volts	Amp.	Use	Plate Supply Volts	Grid Bias ■ Volts	Screen Supply Volts	Screen Current Ma.	Plate Current Ma.	AC Plate Resistance Ohms	Transconductance (Grid-plate) umhos	Amplification Factor	Load for Stated Power Output Ohms	Power Output Watts
6G6-G	Power Amplifier Pentode	D3	G-7S‡	H	6.3	0.15	Pentode Class A Amplifier	135 180	− 6.0 − 9.0	135 180	2.0 2.5	11.5 15.0	170000 175000	2100 2300	—	12000 10000	0.6 1.1
							Triode□ Class A Amplifier	180	−12.0	—	—	11.0	4750	2000	9.5	12000	0.25
6H6	Twin Diodes	A1a	7Q	H	6.3	0.3	Voltage Doubler	Max. AC Supply Volts per Plate (RMS), 150 Max. DC Output Ma., 8. min. Min. Total Effect. Plate-Supply Imped. per Plate: half-wave, 30 ohms; full-wave, 15 ohms.									
6H6-GT		C3	G-7Q‡‡				Half-Wave Rectifier	Max. AC Plate Volts (RMS), 150 Max. DC Output Ma., 8 per Plate Min. Total Effective Plate-Supply Impedance: up to 117 volts, 15 ohms; at 150 volts, 40 ohms.									
6J5	Medium-Mu Triodes	B2	6Q	H	6.3	0.3	Class A Amplifier	90 250	0 − 8.0	— —	— —	10.0 9.0	6700 7700	3000 2600	20 20	— —	— —
6J5-GT		C3	GT-6Q														
6J6	Medium-Mu Twin Triode	B0	7BF	H	6.3	0.45	Each Unit as Class A Amplifier	100	Cathode Resistor, for both units, 50 ohms			8.5	7100	5300	38	—	—
							Push-Pull Class C Amplifier	150	−10.0	Cath. Res., 220 ohms, both units		30.0	Grid Current, 16 ma. Driving Power, 0.35 watt.			—	3.5
6J7	Sharp-Cutoff Pentodes	C1	7R	H	6.3	0.3	Pentode Class A RF Amplifier	100 250	− 3.0 − 3.0	100 100	0.5 0.5	2.0 2.0	1.0§ 1.0 +§	1185 1225	—	—	—
							Pentode Class A AF Amplifier	90 ■ Cath. Bias, 2600 ohms. Screen Resistor = 1.2 meg. Grid Resistor,** 0.5 megohm. Gain per stage = 85 300 ■ Cath. Bias, 1200 ohms. Screen Resistor = 1.2 meg. Gain per stage = 140									
6J7-G		D8	G-7R‡‡				Pentode Bias Detector	250	− 4.3	100	Cathode Current 0.43 ma.		—	Plate Resistor, 500000 ohms. Grid Resistor,** 250000 ohms.			
6J7-GT		C3	GT-7R				Triode-H Class A Amplifier	180 250	− 5.3 − 8.0	—	—	5.3 6.5	11000 10500	1800 1900	20 20	—	—
6J8-G	Triode-Heptode Converter	D8	G-8H	H	6.3	0.3	Triode Unit as Oscillator	100 250 ■	Triode-Grid Resistor, 50000 ohms			4.0 5.8	Triode-Grid & Heptode-Grid Current, 0.3 ma. Triode-Grid & Heptode-Grid Current, 0.4 ma.				
							Heptode Unit as Mixer	100 250	− 3.0 − 3.0	100 100	3.0 2.9	1.4 1.3	900000 4.0§	Conversion Transcond., 260 micromhos. Conversion Transcond., 290 micromhos.			
6K5-GT	High-Mu Triode	C3	GT-5U	H	6.3	0.3	Class A Amplifier	100 250	− 1.5 − 3.0	— —	— —	0.35 1.1	78000 50000	900 1400	70 70	— —	— —
6K6-GT	Power Pentode	C2b	G-7S‡	H	6.3	0.4	Single-Tube Class A Amplifier	100 250 315	− 7.0 −18.0 −21.0	100 250 250	1.6 5.5 4.0	9.0 32.0 25.5	104000 90000 110000	1500 2300 2100	—	12000 7600 9000	0.35 3.40 4.50
							Push-Pull Class A Amplifier	285 285	−25.5 Cath. Bias	285 285	9.0♠ 9.0♠	55.0♠ 55.0♠	— Cath. Bias Resistor, 400 ohms♠	—	—	12000 12000	10.5† 9.8†
6K7	Remote-Cutoff Pentodes	C1	7R	H	6.3	0.3	Class A Amplifier	100 250	− 1.0 − 3.0	100 125	2.7 2.6	9.5 10.5	150000 600000	1650 1650	—	—	—
6K7-G		D8	G-7R‡				Mixer in Superheterodyne	250	−10.0	100	—	—	Oscillator Peak Volts = 7.0				
6K7-GT		C3	GT-7R														
6K8	Triode-Hexode Converters	C1	8K	H	6.3	0.3	Triode Unit as Oscillator	100	Triode-Grid Resistor, 50000 ohms			3.8	Triode-Grid & Hexode-Grid Current, 0.15 ma.				
6K8-G		D8	G-8K‡				Hexode Unit as Mixer	100 250	− 3.0 − 3.0	100 100	6.2 6.0	2.3 2.5	400000 600000	Conversion Transcond., 325 micromhos. Conversion Transcond., 350 micromhos.			
6K8-GT		C10	GT-8K														
6L5-G	Medium-Mu Triode	D3	G-6Q‡	H	6.3	0.15	Class A Amplifier	135 250	− 5.0 − 9.0	— —	— —	3.5 8.0	11300 9000	1500 1900	17 17	— —	— —

Discontinued types are shown in light face.

Type	Name	Tube Dimensions and Socket Connections: Dimen.	Tube Dimensions and Socket Connections: S. C.	Cathode Type and Rating: C. T.	Cathode Type and Rating: Volts	Cathode Type and Rating: Amp.	Use (Values to right give operating conditions and characteristics for indicated typical use)	Plate Supply Volts	Grid Bias ■ Volts	Screen Supply Volts	Screen Current Ma.	Plate Current Ma.	AC Plate Resistance Ohms	Transconductance (Grid-plate) µmhos	Amplification Factor	Load for Stated Power Output Ohms	Power Output Watts
6L6 6L6-G	Beam Power Tubes	D7 E2	7AC G-7AC‡	H	6.3	0.9	Single-Tube Class A Amplifier	250 250	−14.0 Cath. Bias	250 250	5.0 5.4	72.0 75.0	— Cath. Bias Resistor, 170 ohms.	—	—	2500 2500	6.5 6.5
							Push-Pull Class A Amplifier	270 270	−17.5 Cath. Bias	270 270	11.0♠ 11.0♠	134.0♠ 134.0♠	— Cath. Bias Resistor, 125 ohms.♠	—	—	5000 5000	17.5† 18.5†
							Push-Pull Class AB_1 Amplifier	360 360	−22.5 Cath. Bias	270 270	5.0♠ 5.0♠	88.0♠ 88.0♠	— Cath. Bias Resistor, 250 ohms.♠	—	—	6600 9000	26.5† 24.5†
							Push-Pull Class AB_2 Amplifier	360 360	−18.0 −22.5	225 270	3.5♠ 5.0♠	78.0♠ 88.0♠	—	—	—	6000 3800	31.0† 47.0†
							Single Triode□ Class A Amplifier	250 250	−20.0 Cath. Bias	—	—	40.0 40.0	1700 Cath. Bias Resistor, 490 ohms.	4700	8.0	5000 6000	1.4 1.3
6L7 6L7-G	Pentagrid MixersA	C1 D8	7T G-7T‡	H	6.3	0.3	Mixer in Superheterodyne	250	− 3.0	100	7.1	2.4	Oscillator-Grid (#3) Bias, −10 volts. Grid #3 Peak Swing, 12 volts minimum. Conversion Transcond., 375 micromhos.				
							Class A Amplifier	250	− 3.0¶	100	6.5	5.3	600000	1100	—	—	—
6N6-G	Direct-Coupled Power Triode	D10	G-7AU	H	6.3	0.8	Class A Amplifier	Output Triode: Plate Volts, 300; Plate Ma., 45; Load, 7000 ohms. Triode: Plate Volts, 300; Grid Volts, 0; A-F Signal Volts (Peak), 21; Plate Ma., 8.								Input 4.0	
6N7 6N7-GT	High-Mu Twin Power Triodes	C2 C2b	8B G-8B‡	H	6.3	0.8	Class A Amplifier (as Driver)°	250 294	− 5.0 − 6.0	—	—	6.0 7.0	11300 11000	3100 3200	35 35	20000 or more	exceeds 0.4
							Class B Amplifier	300	0	—	—	Power Output is for one tube at stated plate-to-plate load.				8000	10.0
6P5-GT	Medium-Mu Triode	C2b	G-6Q‡	H	6.3	0.3	Amplifier Detector	For other characteristics, refer to Type 76.									
6P7-G	Triode-Pentode	D8	G-7U	H	6.3	0.3	Amplifier and Converter	For other characteristics, refer to Type 6F7.									
6Q7 6Q7-G 6Q7-GT	Twin-Diode High-Mu Triodes	C1 D8 C3	7V G-7V‡ GT-7V‡	H	6.3	0.3	Triode Unit as Class A Amplifier	100 250	− 1.0 − 3.0	—	—	0.8 1.1	58000 58000	1200 1200	70 70	—	—
								90✖ 300✖	Cath. Bias, 7600 ohms. Cath. Bias, 3000 ohms.	Grid Resistor,** 0.5 megohm.						Gain per stage = 32 Gain per stage = 45	
6R7 6R7-G 6R7-GT	Twin-Diode Medium-Mu Triodes	C1 D8 C2b	7V G-7V‡ G-7V‡	H	6.3	0.3	Triode Unit as Class A Amplifier	250	− 9.0	—	—	9.5	8500	1900	16	—	—
								90♥ 300♥	Cath. Bias, 5400 ohms. Cath. Bias, 5000 ohms.	Grid Resistor,** 0.22 megohm.						Gain per stage = 11 Gain per stage = 12	
6S4	Medium-Mu Triode	B3	9AC	H	6.3	0.6	Vertical Deflection Amplifier in TV Receivers	Max. DC Plate Volts, 500 Max. DC Cathode Ma., 30					Max. Peak Positive-Pulse Plate Volts, 2000 Max. Plate Dissipation, 7.5 watts				
6S4-A	Medium-Mu Triode	B3	9AC	H	6.3	0.6	Vertical Deflection Amplifier in TV Receivers	For other characteristics, refer to Type 6S4.									
6S7 6S7-G	Remote-Cutoff Pentodes	C1 D8	7R G-7R‡	H	6.3	0.15	Class A Amplifier	135 250	− 3.0 − 3.0	67.5 100	0.9 2.0	3.7 8.5	1.0§ 1.0§	1250 1750	—	—	—
6S8-GT	Triple-Diode Triode	C9a	8CB	H	6.3	0.3	Triode Unit as Class A Amplifier	100 250	− 1.0 − 2.0	—	—	0.4 0.9	110000 91000	900 1100	100 100	—	—
6SA7	Pentagrid ConverterA	B2	8R	H	6.3	0.3	Mixer	100 250	Self-Excited	100 100	8.5 8.5	3.3 3.5	500000 1.0§	Grid #1 Resistor, 20000 ohms. Conversion Transcond., 450 micromhos.			
6SA7-GT	Pentagrid ConverterA	C3	G-8AD	H	6.3	0.3	Mixer	For other characteristics, refer to Type 6SA7.									
6SB7-Y	Pentagrid ConverterA	B2	8R	H	6.3	0.3	Mixer	100 250	− 1.0 − 1.0	100 100	10.2 10.0	3.6 3.8	500000 1.0§	Grid #1 Resistor, 20000 ohms Conversion Transcond., 950 micromhos			
6SC7	Twin-Triode Amplifier	B2	8S	H	6.3	0.3	Each Unit as Amplifier	250	− 2.0	—	—	2.0	53000	1325	70	—	—
6SF5 6SF5-GT	High-Mu Triodes	B2 C2b	6AB G-6AB‡	H	6.3	0.3	Class A Amplifier	100 250	− 1.0 − 2.0	—	—	0.4 0.9	85000 66000	1150 1500	100 100	—	—
								90✖ 300✖	Cath. Bias, 8800 ohms. Cath. Bias, 3200 ohms.	Grid Resistor,** 0.5 megohm.						Gain per stage = 43 Gain per stage = 63	
6SF7	Diode-Remote-Cutoff Pentode	B2	7AZ	H	6.3	0.3	Pentode Unit as Class A Amplifier	100 250	− 1.0 − 1.0	100 100	4.3 4.1	13.5 13.9	200000 700000	1975 2050	—	—	—
6SG7	Remote-Cutoff Pentode	B2	8BK	H	6.3	0.3	Class A Amplifier	100 250 250	− 1.0 − 1.0 − 2.5	100 125 150	3.2 4.4 3.4	8.2 11.8 9.2	250000 900000 1.0+§	4100 4700 4000	—	—	—
6SH7	Sharp-Cutoff Pentode	B2	8BK	H	6.3	0.3	Class A Amplifier	100 250	− 1.0 − 1.0	100 150	2.1 4.1	5.3 10.8	350000 900000	4000 4900	—	—	—
6SJ7 6SJ7-GT	Sharp-Cutoff Pentodes	B2 C3	8N GT-8N‡	H	6.3	0.3	Class A Amplifier	100 250	− 3.0 − 3.0	100 100	0.9 0.8	2.9 3.0	700000 1.0+§	1575 1650	—	—	—
								90✖ 300✖	Cath. Bias, 1700 ohms. Cath. Bias, 860 ohms.	Grid Resistor,** 0.5 megohm.						Gain per stage = 93 Gain per stage = 167	
6SK7 6SK7-GT	Remote-Cutoff Pentodes	B2 C3	8N GT-8N‡	H	6.3	0.3	Class A Amplifier	100 250	− 1.0 − 3.0	100 100	4.0 2.6	13.0 9.2	120000 800000	2350 2000	—	—	—
6SL7-GT	High-Mu Twin Triode	C2b	8BD	H	6.3	0.3	Each Unit as Class A Amplifier	250	− 2.0	—	—	2.3	44000	1600	70	—	—
6SN7-GT	Medium-Mu Twin Triode	C2b	8BD	H	6.3	0.6	Each Unit as Class A Amplifier	90 250	0 − 8.0	—	—	10.0 9.0	6700 7700	3000 2600	20 20	—	—
6SN7-GTA	Medium-Mu Twin Triode	C2b	8BD	H	6.3	0.6	Each Unit as Class A Amplifier	90 250	0 − 8.0	—	—	10.0 9.0	6700 7700	3000 2600	20 20	—	—
							Vertical Deflection Amplifier in TV Receivers +	Max. DC Plate Volts, 450 Max. Peak Cathode Ma., 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: Dimen.	Tube Dimensions and Socket Connections: S. C.	Cathode Type and Rating: C. T.	Cathode Type and Rating: Volts	Cathode Type and Rating: Amp.	Use (Values to right give operating conditions and characteristics for indicated typical use)	Plate Supply Volts	Grid Bias ■ Volts	Screen Supply Volts	Screen Current Ma.	Plate Current Ma.	AC Plate Resistance Ohms	Transconductance (Grid-plate) µmhos	Amplification Factor	Load for Stated Power Output Ohms	Power Output Watts
6SN7-GTB	Medium-Mu Twin-Triode	C2b	8BD	H	6.3	0.6	Each Unit as Class A Amplifier	For other characteristics, refer to Type 6SN7-GTA									
6SQ7 **6SQ7-GT**	Twin-Diode High-Mu Triodes	B2 C3	8Q GT-8Q♀	H	6.3	0.3	Triode Unit as Class A Amplifier	100 250	− 1.0 − 2.0	——	——	0.5 1.1	110000 85000	925 1175	100 100	——	——
								90✕ 300✕	Cath. Bias, 11000 ohms. Cath. Bias, 3900 ohms.	Grid Resistor, ** 0.5 megohm.					Gain per stage = 40 Gain per stage = 53		
6SR7	Duplex-Diode Triode	B2	8Q	H	6.3	0.3	Triode Unit as Class A Amplifier	250	− 9.0	——	——	9.5	8500	1900	16	10000	0.3
6SS7	Remote-Cutoff Pentode	B2	8N	H	6.3	0.15	Class A Amplifier	100 250	− 1.0 − 3.0	100 100	3.1 2.0	12.2 9.0	120000 1.0§	1930 1850	——	——	——
6ST7	Duplex-Diode Triode	B2	8Q	H	6.3	0.15	Triode Unit as Amplifier	For other characteristics, refer to Type 6SR7.									
6SZ7	Twin-Diode High-Mu Triode	B2	8Q	H	6.3	0.15	Triode Unit as Class A Amplifier	100 250	− 1.0 − 3.0	——	——	0.8 1.0	61000 58000	1150 1200	70 70	——	——
6T7-G	Twin-Diode High-Mu Triode	D8	G-7V‡	H	6.3	0.15	Triode Unit as Class A Amplifier	135 250	− 1.5 − 3.0	——	——	0.9 1.2	65000 62000	1000 1050	65 65	——	——
								90✕ 300✕	Cath. Bias, 8300 ohms. Cath. Bias, 4580 ohms.	Grid Resistor,** 0.5 megohm.					Gain per stage = 30 Gain per stage = 40		
6T8	Triple-Diode High-Mu Triode	B0a	9E	H	6.3	0.45	Triode Unit as Class A Amplifier	100 250	− 1 − 3	——	——	0.8 1.0	54000 58000	1300 1200	70 70	——	——
6U5	Electron-Ray Tube	D4	6R	H	6.3	0.3	Visual Indicator	Plate & Target Supply = 200 volts. Triode Plate Resistor = 1.0 meg. Target Current = 3.0 ma. Grid Bias, −18.5 volts; Shadow Angle, 0°. Bias, 0 volts; Angle, 90°; Plate Current, 0.19 ma.									
								Plate & Target Supply = 250 volts. Triode Plate Resistor = 1.0 meg. Target Current = 4.0 ma. Grid Bias, −22 volts; Shadow Angle, 0°. Bias, 0 volts; Angle, 90°; Plate Current, 0.24 ma.									
6U7-G	Remote-Cutoff Pentode	D12a	G-7R‡	H	6.3	0.3	Class A Amplifier	100 250	− 3.0 − 3.0	100 100	2.2 2.0	8.0 8.2	250000 800000	1500 1600	——	——	——
							Mixer in Superheterodyne	100 250	−10.0 −10.0	100 100	——	——	Oscillator Peak Volts = 7.0				
6U8	Triode—Remote-Cutoff Pentode	B0a	9AE	H	6.3	0.45	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	
6V3-A	Half-Wave Rectifier	B4a	32	H	6.3	1.75	Television Damper Service	Max. Peak Inverse Plate Volts, 6000 (Abs.) Max. Peak Plate Ma., 800 Max. DC Plate Ma., 135					Max. Peak Heater-Cathode Volts −6750* (Abs.) +300 *DC component not to exceed −750 volts				
6V6 **6V6-GT**	Beam Power Tubes	C2 C2b	7AC G-7AC‡	H	6.3	0.45	Single-Tube Class A Amplifier	180 250 315	− 8.5 −12.5 −13.0	180 250 225	3.0 4.5 2.2	29.0 45.0 34.0	50000 50000 80000	3700 4100 3750	—— —— ——	5500 5000 8500	2.0 4.5 5.5
							Push-Pull Class AB_1 Amplifier	250 285	−15.0 −19.0	250 285	5.0♠ 4.0♠	70.0♠ 70.0♠	60000 70000	3750 3600	—— ——	10000 8000	10.0† 14.0†
6V7-G	Duplex-Diode Triode	D8	G-7V‡	H	6.3	0.3	Triode Unit as Amplifier	For other characteristics, refer to Type 85.									
6W4-GT	Half-Wave Rectifier	C2b	4CG	H	6.3	1.2	With Capacitive-Input Filter	Max. AC Plate Volts (RMS), 350 Max. Peak Inverse Volts 3500♠, 1250					Max. DC Output Ma., 125 Max. Peak Plate Ma., 600		Min. Total Effect. Supply Imped. per Plate, 145 ohms.		
6W6-GT	Beam Power Amplifier	C2b	G-7AC‡	H	6.3	1.2	Vertical Deflection Amplifier in TV Receivers	Max. DC Plate Volts, 300 Max. Plate Dissipation, 7.5 watts					Max. Peak Positive-Pulse Plate Volts, 1200 Max. Peak Negative-Pulse Grid Volts, 250				
6W7-G	Sharp-Cutoff Pentode	D8	G-7R‡	H	6.3	0.15	Class A Amplifier	250	− 3.0	100	0.5	2.0	1.5§	1225	——	——	——
6X4	Full-Wave Rectifier	B1	5BS	H	6.3	0.6	With Capacitive-Input Filter	Max. AC Volts per Plate (RMS), 325 Max. Peak Inverse Volts, 1250					Max. DC Output Ma., 70 Max. Peak Plate Ma., 210		Total Effect. Supply Imped. per Plate, 520 ohms		
							With Inductive-Input Filter	Max. AC Volts per Plate (RMS), 450 Max. Peak Inverse Volts, 1250					Max. DC Output Ma., 70 Max. Peak Plate Ma., 210		Min. Value of Input Choke, 10 henries		
6X5 **6X5-GT**	Full-Wave Rectifiers	C2 C2b	6S G-6S‡	H	6.3	0.6	With Capacitive-Input Filter	Max. AC Volts per Plate (RMS), 325 Max. Peak Inverse Volts, 1250					Max. DC Output Ma., 70 Max. Peak Plate Ma., 210		Min. Total Effect. Supply Imped. per Plate, 520 ohms		
							With Inductive-Input Filter	Max. AC Volts per Plate (RMS), 450 Max. Peak Inverse Volts, 1250					Max. DC Output Ma., 70 Max. Peak Plate Ma., 210		Min. Value of Input Choke, 10 henries		
6X8	Triode-Pentode Converter	B0a	9AK	H	6.3	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 Plate Current, 6.2 ma.				Osc. Volts at Mixer Grid No. 1 (RMS), 2.6 Mixer Grid-No. 1 Resistor, 120000 ohms Conversion Transconductance, 2100 µmhos				
6Y5	Full-Wave Rectifier	D5	6J	H	6.3	0.8	With Capacitive-Input Filter	Max. AC Volts per Plate (RMS), 350 Max. DC Output Ma., 50									
6Y6-G	Beam Power Tube	D10	G-7AC‡	H	6.3	1.25	Single-Tube Class A Amplifier	135 200	−13.5 −14.0	135 135	3.5 2.2	58.0 61.0	9300 18300	7000 7100	——	2000 2600	3.6 6.0
6Y7-G	Twin-Triode Amplifier	D3	G-8B‡	H	6.3	0.6	Class B Amplifier	For other characteristics, refer to Type 79.									
6Z5	Full-Wave Rectifier	D5	6K	H	6.3 12.6	0.8 0.4	With Capacitive-Input Filter	Max. AC Volts per Plate (RMS), 230 Max. DC Output Ma., 60									
6Z7-G	Twin-Triode Amplifier	D3	G-8B‡	H	6.3	0.3	Class B Amplifier	135 180	0 0	——	——	Power Output is for one tube at stated plate-to-plate load.				9000 12000	2.5 4.2
6ZY5-G	Full-Wave Rectifier	D3	G-6S‡	H	6.3	0.3	With Capacitive-Input Filter	Max. AC Volts per Plate (RMS), 325 Max. Peak Inverse Volts, 1250					Max. DC Output Ma., 40 Max. Peak Plate Ma., 120		Min. Total Effect. Supply Imped. per Plate, 225 ohms		
							With Inductive-Input Filter	Max. AC Volts per Plate (RMS), 450 Max. Peak Inverse Volts, 1250					Max. DC Output Ma., 40 Max. Peak Plate Ma., 120		Min. Value of Input Choke, 13.5 henries		
7A4	Medium-Mu Triode	B5	$5AC_2$	H	6.3	0.3	Amplifier	For other characteristics, refer to Type 6J5.									
7A5	Beam Power Tube	C2a	6AA	H	6.3	0.75	Class A Amplifier	110 125	− 7.5 − 9.0	110 125	3.0 3.3	40.0 44.0	16000 17000	5800 6000	——	2500 2700	1.5 2.2

Discontinued types are shown in light face.

Type	Name	Tube Dimensions and Socket Connections: Dimen.	S. C.	Cathode Type and Rating: C. T.	Volts	Amp.	Use (Values to right give operating conditions and characteristics for indicated typical use)	Plate Supply Volts	Grid Bias Volts	Screen Supply Volts	Screen Current Ma.	Plate Current Ma.	AC Plate Resistance Ohms	Transconductance (Grid-plate) µmhos	Amplification Factor	Load for Stated Power Output Ohms	Power Output Watts
7A6	Twin Diode	B5	7AJ	H	6.3	0.15	Detector Rectifier	Maximum AC Voltage per Plate.....150 Volts, RMS Maximum DC Output Current per plate..... 8 Milliamperes									
7A7	Remote-Cutoff Pentode	B5	8V	H	6.3	0.3	Class A Amplifier	For other characteristics, refer to Type 6SK7.									
7A8	Octode Converter	B5	8U	H	6.3	0.15	Converter	100 250	− 3.0 − 3.0	75 100	2.7 3.2	1.8 3.0	650000 700000	Anode-Grid (#2): 250 max. volts, 4.2 ma. Oscillator-Grid (#1) Resistor. Conversion Transcond., 550 micromhos.			
7AD7	Power Pentode	C2a	8V	H	6.3	0.6	Class A Amplifier	300	Cath. Bias	150	7.0	28.0	300000	9500	Cath. Res., 68 ohms		
7AF7	Medium-Mu Twin Triode	B5	8AC	H	6.3	0.3	Each Unit as Class A Amplifier	250	−10	—	—	9.0	7600	2100	16	—	—
								100	Cath. Bias	—	—	10.8	6500	2600	17	Cath. Res., 600 ohms	
7AG7	Sharp-Cutoff Pentode	B5	8V	H	6.3	0.15	Class A Amplifier	250	Cath. Bias	250	2.0	6.0	1 meg.	4200	Cathode-Bias Resistor, 250 ohms		
7AH7	Sharp-Cutoff Pentode	B5	8V	H	6.3	0.15	Class A Amplifier	250	Cath. Bias	250	1.9	6.8	1 meg.	3300	Cath. Res., 250 ohms		
7AU7	Medium-Mu Twin-Triode	B0a	9A	H	3.5 7.0	0.6 0.3	Each Unit as Class A Amplifier	100 250	0 − 8.5	— —	— —	13.0 10.5	6300 7950	3500 2200	22 17.5	— —	— —
7B4	High-Mu Triode	B5	$5AC_1$	H	6.3	0.3	Amplifier	For other characteristics, refer to Type 6SF5.									
7B5	Power Amplifier Pentode	C2a	6AE	H	6.3	0.4	Class A Amplifier	For other characteristics, refer to Type 6K6-GT.									
7B6	Twin-Diode High-Mu Triode	B5	8W	H	6.3	0.3	Triode Unit as Amplifier	For other characteristics, refer to Type 6SQ7.									
7B7	Remote-Cutoff Pentode	B5	8V	H	6.3	0.15	Class A Amplifier	250	− 3.0	100	1.7	8.5	750000	1750	—	—	—
7B8	Pentagrid Converter	B5	8X	H	6.3	0.3	Converter	For other characteristics, refer to Type 6A8.									
7C5	Beam Power Tube	C2a	6AA	H	6.3	0.45	Class A Amplifier	For other characteristics, refer to Type 6V6-GT.									
7C6	Twin-Diode High-Mu Triode	B5	8W	H	6.3	0.15	Triode Unit as Class A Amplifier	250	− 1.0	—	—	1.3	100000	1000	100	—	—
7C7	Sharp-Cutoff Pentode	B5	8V	H	6.3	0.15	Class A Amplifier	100 250	− 3.0 − 3.0	100 100	0.4 0.5	1.8 2.0	1.2§ 2.0§	1225 1300	—	—	—
7E6	Twin-Diode Triode	B5	8W	H	6.3	0.3	Triode Unit as Amplifier	For other characteristics, refer to Type 6R7.									
7E7	Twin-Diode Pentode	B5	8AE	H	6.3	0.3	Pentode Unit as Class A Amplifier	100 250	Cath. Bias	100 100	2.7 1.6	10.0 7.5	150000 700000	1600 1300	Cath. Res., 800 ohms Cath. Res., 330 ohms		
7F7	Twin-Triode Amplifier	B5	8AC	H	6.3	0.3	Each Unit as Amplifier	For other characteristics, refer to Type 6SL7-GT.									
7F8	Twin-Triode Amplifier	B0b	8BW	H	6.3	0.3	Each Unit as Class A Amplifier	250	Cathode-Bias Res., 500 ohms			6.0	—	3300	48	—	—
7G7	Sharp-Cutoff Pentode	B5	8V	H	6.3	0.45	Class A Amplifier	250	− 2.0	100	2.0	6.0	800000	4500	—	—	—
7H7	Sharp-Cutoff Pentode	B5	8V	H	6.3	0.3	Class A Amplifier	100 250	− 1.5 △	100 150	2.6 3.2	7.5 10.0	350000 800000	4000 4000	Cath. Res., 180 ohms		
7J7	Triode-Heptode Converter	B5	8BL	H	6.3	0.3	Triode Unit as Oscillator	100 250	Triode-Grid Resistor, 50000 ohms			3.2 5.0	Triode-Grid & Heptode-Grid Current, 0.3 ma. Triode-Grid & Heptode-Grid Current, 0.4 ma.				
							Heptode Unit as Mixer	100 250	− 3.0 − 3.0	100 100	2.6 2.8	1.5 1.4	500000 1.5§	Conversion Transcond., 280 µmhos. Conversion Transcond., 290 µmhos.			
7K7	Twin-Diode-High-Mu Triode	B5	8BF	H	6.3	0.3	Triode Unit as Class A Amplifier	250	− 2	—	—	2.3	44000	1600	70	—	—
7L7	RF Amplifier Pentode	B5	8V	H	6.3	0.3	Class A Amplifier	100 250	− 1.0 − 1.5	100 100	2.4 1.5	5.5 4.5	100000 1.0§	3000 3100	—	—	—
7N7	Twin-Triode Amplifier	C2a	8AC	H	6.3	0.6	Each Unit as Class A Amplifier	For other characteristics, refer to Type 6SN7-GT									
7Q7	Pentagrid Converter▲	B5	8AL	H	6.3	0.3	Converter	100 250	− 2.0 − 2.0	100 100	8.5 8.5	3.3 3.5	500000 1.0§	Grid #1 Resistor, 20000 ohms. Conversion Transcond., 550 µmhos.			
7R7	Twin-Diode Pentode	B5	8AE	H	6.3	0.3	Pentode Unit as Class A Amplifier	100 250	− 1.0 − 1.0	100 100	2.2 2.1	5.5 5.7	350000 1.0§	3000 3200	—	—	—
7S7	Triode-Heptode Converter	B5	8BL	H	6.3	0.3	Triode Unit as Oscillator	100 250	Triode-Grid Resistor, 50000 ohms			3.0 5.0	Triode-Grid & Heptode-Grid Current, 0.3 ma. Triode-Grid & Heptode-Grid Current, 0.4 ma.				
							Heptode Unit as Mixer	100 250	− 2.0 − 2.0	100 100	3.0 3.0	1.9 1.8	500000 1.25§	Conversion Transcond., 500 µmhos. Conversion Transcond., 525 µmhos.			
7V7	RF Amplifier Pentode	B5	8V	H	6.3	0.45	Class A Amplifier	300	—	150	3.9	10.0	300000	5800	Cath. Bias Res., 160 ohms		
7W7	RF Amplifier Pentode	B5	8BJ	H	6.3	0.45	Class A Amplifier	For other characteristics, refer to Type 7V7.									
7X7	Twin Diode-High-Mu Triode	C2a	8BZ	H	6.3	0.3	Triode Unit as Class A Amplifier	100 250	0 − 1.0	— —	— —	1.2 1.9	85000 67000	1000 1500	85 100	— —	— —
7Y4	Full-Wave Rectifier	B5	5AB	H	6.3	0.5	With Capacitive-Input Filter	Max. AC Volts per Plate (RMS), 325 Max. Peak Inverse Volts, 1250				Max. DC Output Ma., 70 Max. Peak Plate Ma., 180			Min. Total Effect. Supply Imped. per Plate, 150 ohms.		
							With Inductive-Input Filter	Max. AC Volts per Plate (RMS), 450 Max. Peak Inverse Volts, 1250				Max. DC Output Ma., 70 Max. Peak Plate Ma., 180			Min. Value of Input Choke, 10 henries		
7Z4	Full-Wave Rectifier	C2a	5AB	H	6.3	0.9	With Capacitive-Input Filter	Max. AC Volts per Plate (RMS), 325 Max. Peak Inverse Volts, 1250				Max. DC Output Ma., 100 Max. Peak Plate Ma., 300			Min. Total Effec. Supply Imped. per Plate, 75 ohms		
							With Inductive-Input Filter	Max. AC Volts per Plate (RMS), 450 Max. Peak Inverse Volts, 1250				Max. DC Output Ma., 100 Max. Peak Plate Ma., 300			Min. Value of Input Choke, 6 henries		
10@	Power Amplifier Triode	E3	4D	F	7.5	1.25	Class A Amplifier	350 425	−32.0 −40.0	—	—	16.0 18.0	5150 5000	1550 1600	8.0 8.0	11000 10200	0.9 1.6

Discontinued types are shown in light face.

Type	Name	Tube Dimensions and Socket Connections: Dimen.	S. C.	Cathode Type and Rating: C. T.	Volts	Amp.	Use (Values to right give operating conditions and characteristics for indicated typical use)	Plate Supply Volts	Grid Bias ■ Volts	Screen Supply Volts	Screen Current Ma.	Plate Current Ma.	AC Plate Resistance Ohms	Transconductance (Grid-plate) umhos	Amplification Factor	Load for Stated Power Output Ohms	Power Output Watts
'11 12	Detector★ Amplifier Triode	D2a D8a	4F 4D	D.C. F	1.1	0.25	Class A Amplifier	90 135	− 4.5 −10.5	—	—	2.5 3.0	15500 15000	425 440	6.6 6.6	—	—
12A5	Power Amplifier Pentode	D5	7F	H	6.3 12.6	0.6 0.3	Class A Amplifier	100 180	−15.0 −25.0	100 180	3.0 8.0	17.0 45.0	50000 35000	1700 2400	—	4500 3300	0.8 3.4
12A7	Rectifier-Pentode	D9	7K	H	12.6	0.3	Pentode Unit as Class A Amplifier	135	−13.5	135	2.5	9.0	102000	975	—	13500	0.55
							Half-Wave Rectifier	Maximum AC Plate Voltage ..... 125 Volts, RMS Maximum DC Output Current ..... 30 Milliamperes									
12A8-GT	Pentagrid Converter ▫	C3	GT-8A	H	12.6	0.15	Converter	For other characteristics, refer to Type 6A8.									
12AB5	Beam Power Tube	B3	9CK	H	10.0 to 15.9	0.225 approx.	Single-Tube Class A Amplifier	250	Cath. Bias	200	1.6	33.5	Cath. Bias Res., 270 ohms			6000	3.3
							Push-Pull Class AB_1 Amplifier	250	−15.0	250	5.0♠	70.0♠	60000	3750	—	10000	10.0†
12AH7-GT	Twin Triode	C0a	8BE	H	12.6	0.15	Each Unit as Class A Amplifier	100 180	− 3.6 − 6.5	—	—	3.7 7.6	10300 8400	1550 1900	16 16	—	—
12AL5	Twin-Diode	A1	6BT	H	12.6	0.15	Detector Rectifier	For other characteristics, refer to Type 6AL5.									
12AQ5	Beam Power Tube	B1	7BZ	H	12.6	0.225	Amplifier	For other characteristics, refer to Type 6V6.									
12AT6	Twin-Diode High-Mu Triode	B0	7BT	H	12.6	0.15	Triode Unit as Class A Amplifier	For other characteristics, refer to Type 6AT6.									
12AT7	High-Mu Twin Triode	B0a	9A	H	6.3 12.6	0.3 0.15	Each Unit as Class A Amplifier	100 250	Cath. Res., 270 ohms Cath. Res., 200 ohms			3.7 10.0	15000 10900	4000 5500	60 60	— —	— —
12AU6	Sharp-Cutoff Pentode	B0	7BK1	H	12.6	0.15	Class A Amplifier	For other characteristics, refer to Type 6AU6.									
12AU7	Twin-Triode Amplifier	B0a	9A	H	6.3 12.6	0.3 0.15	Each Unit As Class A Amplifier	100 250	0 − 8.5	— —	— —	11.8 10.5	6500 7700	3100 2200	20 17.5	— —	— —
12AV6	Twin-Diode High-Mu Triode	B0	7BT	H	12.6	0.15	Triode Unit as Class A Amplifier	For other characteristics, refer to Type 6AV6.									
12AV7	Medium-Mu Twin Triode	B0a	9A	H	6.3 12.6	0.45 0.225	Each Unit as Class A Amplifier	150	Cathode Bias Res., 56 ohms			18	48000	8500	41	Cutoff Volts, −12	
12AW6	Sharp-Cutoff Pentode	B0	7CM	H	12.6	0.15	As Pentode Class A Amplifier	For other characteristics, refer to Type 6AG5.									
							As Triode □ Class A Amplifier										
12AX4-GT	Half-Wave Rectifier	C2b	20	H	12.6	0.6	Television Damper Service	Max. Peak Inverse Plate Volts, 4000 Max. Peak Plate Ma., 600 Max. DC Plate Ma., 125 Max. Peak Heater-Cathode Volts: −4000** / +100 **DC component must not exceed 900 volts									
12AX4-GTA	Half-Wave Rectifier	C2b	20	H	12.6	0.6	Television Damper Service	For other characteristics, refer to Type 12AX4-GT.									
12AX7	High-Mu Twin Triode	B0a	9A	H	6.3 12.6	0.3 0.15	Each Unit as Class A Amplifier	100 250	− 1.0 − 2.0	— —	— —	0.5 1.2	80000 62500	1250 1600	100 100	— —	— —
12AZ7	High-Mu Twin-Triode	B0a	9A	H	6.3 12.6	0.45 0.225	Each Unit as Class A Amplifier	100 250	Cath. Bias Res., 270 ohms Cath. Bias Res., 200 ohms			3.7 10.0	15000 10900	4000 5500	60 60	— —	— —
12B4-A	Low-Mu Triode	B3	33	H	6.3 12.6	0.6 0.3	Vertical Deflection Amplifier in TV Receivers	Max. DC Plate Volts, 550 Max. Peak Positive-Pulse Plate Volts, 1000 (Abs.) Max. Peak Dissipation, 5.5 Watts Max. Peak Neg.-Pulse Grid Volts, 250 Max. Peak Cathode Ma., 105 Max. Average Cathode Ma., 30									
12B8-GT	Triode-Pentode	C10a	8T	H	12.6	0.3	Triode Unit as Class A Amplifier	90	0	—	—	2.8	37000	2400	90	—	—
							Pentode Unit as Class A Amplifier	90	− 3.0	90	2.0	7.0	200000	1800	—	—	—
12BA6	Remote-Cutoff Pentode	B0	7BK1	H	12.6	0.15	Class A Amplifier	For other characteristics, refer to Type 6BA6.									
12BA7	Pentagrid Converter▲	B3	8CT	H	12.6	0.15	Converter	For other characteristics, refer to Type 6BA7.									
12BD6	Remote-Cutoff Pentode	B0	7CC	H	12.6	0.15	Class A Amplifier	For other characteristics, refer to Type 6BD6.									
12BE6	Pentagrid Converter▲	B0	7CH	H	12.6	0.15	Converter	For other characteristics, refer to Type 6BE6.									
12BF6	Twin-Diode Triode	B0	7BT	H	12.6	0.15	Triode Unit as Class A Amplifier	250	− 9.0	—	—	9.5	8500	1900	16	Power Output, 300 milliwatts	
12BH7	Medium-Mu Twin Triode	B3	9A	H	6.3 12.6	0.6 0.3	Vertical Deflection Amplifier in TV Receivers	Max. DC Plate Volts, 450 Max. DC Plate Ma., 20 Absolute Max. Peak Positive-Pulse Plate Volts, 1500 Max. Plate Dissipation (Each Unit), 3.5 watts									
12BH7-A	Medium-Mu Twin-Triode	B3	9A	H	6.3 12.6	0.6 0.3	Vertical Deflection Amplifier in TV Receivers	For other characteristics, refer to Type 12BH7.									
12BQ6-GTB/12CU6	Beam Power Tube	C11	8AM	H	12.6	0.6	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									
12BY7	Sharp-Cutoff Pentode	B3	9BF	H	6.3 12.6	0.6 0.3	Class A Amplifier	250	Cath. Bias	150	6	25	110000	12000	Cath. Res., 68 ohms		
12BY7-A	Sharp-Cutoff Pentode	B3	9BF	H	6.3 12.6	0.6 0.3	Class A Amplifier	For other characteristics, refer to Type 12BY7									
12C8	Twin-Diode Pentode	C1	8E	H	12.6	0.15	Pentode Unit as RF Amplifier	250	− 3.0	125	2.3	10.0	600000	1325	—	—	—
							Pentode Unit as AF Amplifier	90 × Cath. Bias, 3500 ohms. Screen Resistor = 1.1 meg. 300 × Cath. Bias, 1600 ohms. Screen Resistor = 1.2 meg. Grid Resistor,** 0.5 megohm. Gain per stage = 55 Gain per stage = 79									

Discontinued types are shown in light face.

Type	Name	Tube Dimensions and Socket Connections: Dimen.	S. C.	Cathode Type and Rating: C. T.	Volts	Amp.	Use (Values to right give operating conditions and characteristics for indicated typical use)	Plate Supply Volts	Grid Bias ■ Volts	Screen Supply Volts	Screen Current Ma.	Plate Current Ma.	AC Plate Resistance Ohms	Transconductance (Grid-plate) μmhos	Amplification Factor	Load for Stated Power Output Ohms	Power Output Watts
12CA5	Beam Power Tube	B1	7CV	H	12.6	0.6	Class A Amplifier	110 125	− 4 − 4.5	110 125	3.5 4.0	32 37	16000 15000	8100 9200	——	3500 4500	1.1 1.5
12F5-GT	High-Mu Triode	C2b	G-5M,‡	H	12.6	0.15	Amplifier	For other characteristics, refer to Type 6SF5.									
12H6	Twin-Diode	A1a	7Q	H	12.6	0.15	Detector Rectifier	For other ratings, refer to Type 6H6.									
12J5-GT	Medium-Mu Triode	C3	GT-6Q‡	H	12.6	0.15	Amplifier	For other characteristics, refer to Type 6J5.									
12J7-GT	Sharp-Cutoff Pentode	C3	GT-7R♠	H	12.6	0.15	Amplifier	For other characteristics, refer to Type 6J7.									
12K7-GT	Remote-Cutoff Pentode	C3	GT-7R♠	H	12.6	0.15	Amplifier	For other characteristics, refer to Type 6K7.									
12K8	Triode-Hexode Converter	C1	8K	H	12.6	0.15	Oscillator Mixer	For other characteristics, refer to Type 6K8.									
12L6-GT	Beam Power Tube	C2b	G-7AC‡	H	12.6	0.6	Class A Amplifier	110 200	− 7.5 △	110 125	4.0 2.2	49 46	13000 28000	8000 8000	——	2000 4000	2.1 3.8
12Q7-GT	Twin-Diode High-Mu Triode	C3	GT-7V♠	H	12.6	0.15	Triode Unit as Amplifier	For other characteristics, refer to Type 6Q7.									
12S8-GT	Triple-Diode-High-Mu Triode	C9a	8CB	H	12.6	0.15	Triode Unit as Class A Amplifier	100 250	− 1 − 2	—— ——	—— ——	0.4 0.9	110000 91000	900 1100	100 100	—— ——	—— ——
12SA7	Pentagrid Converter▲	B2	8R	H	12.6	0.15	Mixer	For other characteristics, refer to Type 6SA7.									
12SA7-GT	Pentagrid Converter▲	C2b	G-8AD	H	12.6	0.15	Mixer	For other characteristics, refer to Type 6SA7.									
12SC7	Twin-Triode Amplifier	B2	8S	H	12.6	0.15	Each Unit as Class A Amplifier	For other characteristics, refer to Type 6SC7.									
12SF5	High-Mu Triode	B2	6AB	H	12.6	0.15	Class A Amplifier	For other characteristics, refer to Type 6SF5.									
12SF5-GT	High-Mu Triode	C2b	G-6AB‡	H	12.6	0.15	Class A Amplifier	For other characteristics, refer to Type 6SF5.									
12SF7	Diode-Remote-Cutoff Pentode	B2	7AZ	H	12.6	0.15	Pentode Unit as Amplifier	For other characteristics, refer to Type 6SF7.									
12SG7	Remote-Cutoff Pentode	B2	8BK	H	12.6	0.15	Class A Amplifier	For other characteristics, refer to Type 6SG7.									
12SH7	Sharp-Cutoff Pentode	B2	8BK	H	12.6	0.15	Class A Amplifier	For other characteristics, refer to Type 6SH7.									
12SJ7 12SJ7-GT	Sharp-Cutoff Pentodes	B2 C3	8N GT-8N♠	H	12.6	0.15	Class A Amplifier	For other characteristics, refer to Type 6SJ7.									

Type	Name	Dimen.	S. C.	C. T.	Volts	Amp.	Use	Plate Supply Volts	Grid Bias ■ Volts	Screen Supply Volts	Screen Current Ma.	Plate Current Ma.	AC Plate Resistance Ohms	Transconductance (Grid-plate) μmhos	Amplification Factor	Load for Stated Power Output Ohms	Power Output Watts
6V6 **6V6-GT**	Beam Power Tubes	C2 C2b	7AC G-7AC‡	H	6.3	0.45	Single-Tube Class A Amplifier	180 250 315	− 8.5 −12.5 −13.0	180 250 225	3.0 4.5 2.2	29.0 45.0 34.0	50000 50000 80000	3700 4100 3750	—— —— ——	5500 5000 8500	2.0 4.5 5.5
							Push-Pull Class AB₁ Amplifier	250 285	−15.0 −19.0	250 285	5.0♠ 4.0♠	70.0♠ 70.0♠	60000 70000	3750 3600	—— ——	10000 8000	10.0† 14.0†
6V7-G	Duplex-Diode Triode	D8	G-7V‡	H	6.3	0.3	Triode Unit as Amplifier	For other characteristics, refer to Type 85.									
6W4-GT	Half-Wave Rectifier	C2b	4CG	H	6.3	1.2	With Capacitive-Input Filter	Max. AC Plate Volts (RMS), 350 Max. Peak Inverse Volts 3500♦, 1250				Max. DC Output Ma., 125 Max. Peak Plate Ma., 600		Min. Total Effect. Supply Imped. per Plate, 145 ohms.			
6W6-GT	Beam Power Amplifier	C2b	G-7AC‡	H	6.3	1.2	Vertical Deflection Amplifier in TV Receivers	Max. DC Plate Volts, 300 Max. Plate Dissipation, 7.5 watts					Max. Peak Positive-Pulse Plate Volts, 1200 Max. Peak Negative-Pulse Grid Volts, 250				
6W7-G	Sharp-Cutoff Pentode	D8	G-7R‡	H	6.3	0.15	Class A Amplifier	250	− 3.0	100	0.5	2.0	1.5§	1225	——	——	——
6X4	Full-Wave Rectifier	B1	5BS	H	6.3	0.6	With Capacitive-Input Filter	Max. AC Volts per Plate (RMS), 325 Max. Peak Inverse Volts, 1250				Max. DC Output Ma., 70 Max. Peak Plate Ma., 210		Total Effect. Supply Imped. per Plate, 520 ohms			
							With Inductive-Input Filter	Max. AC Volts per Plate (RMS), 450 Max. Peak Inverse Volts, 1250				Max. DC Output Ma., 70 Max. Peak Plate Ma., 210		Min. Value of Input Choke, 10 henries			
6X5 **6X5-GT**	Full-Wave Rectifiers	C2 C2b	6S G-6S‡	H	6.3	0.6	With Capacitive-Input Filter	Max. AC Volts per Plate (RMS), 325 Max. Peak Inverse Volts, 1250				Max. DC Output Ma., 70 Max. Peak Plate Ma., 210		Min. Total Effect. Supply Imped. per Plate, 520 ohms			
							With Inductive-Input Filter	Max. AC Volts per Plate (RMS), 450 Max. Peak Inverse Volts, 1250				Max. DC Output Ma., 70 Max. Peak Plate Ma., 210		Min. Value of Input Choke, 10 henries			
6X8	Triode-Pentode Converter	B0a	9AK	H	6.3	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 Plate Current, 6.2 ma.					Osc. Volts at Mixer Grid No. 1 (RMS), 2.6 Mixer Grid-No. 1 Resistor, 120000 ohms Conversion Transconductance, 2100 μmhos				
6Y5	Full-Wave Rectifier	D5	8J	H	6.3	0.8	With Capacitive-Input Filter	Max. AC Volts per Plate (RMS), 350 Max. DC Output Ma., 50									
6Y6-G	Beam Power Tube	D10	G-7AC‡	H	6.3	1.25	Single-Tube Class A Amplifier	135 200	−13.5 −14.0	135 135	3.5 2.2	58.0 61.0	9300 18300	7000 7100	—— ——	2000 2600	3.6 6.0
6Y7-G	Twin-Triode Amplifier	D3	G-8B‡	H	6.3	0.6	Class B Amplifier	For other characteristics, refer to Type 79.									
6Z5	Full-Wave Rectifier	D5	6K	H	6.3 12.6	0.8 0.4	With Capacitive-Input Filter	Max. AC Volts per Plate (RMS), 230 Max. DC Output Ma., 60									
6Z7-G	Twin-Triode Amplifier	D3	G-8B‡	H	6.3	0.3	Class B Amplifier	135 180	0 0	—— ——	—— ——	Power Output is for one tube at stated plate-to-plate load.				9000 12000	2.5 4.2
6ZY5-G	Full-Wave Rectifier	D3	G-6S‡	H	6.3	0.3	With Capacitive-Input Filter	Max. AC Volts per Plate (RMS), 325 Max. Peak Inverse Volts, 1250				Max. DC Output Ma., 40 Max. Peak Plate Ma., 120		Min. Total Effect. Supply Imped. per Plate, 225 ohms			
							With Inductive-Input Filter	Max. AC Volts per Plate (RMS), 450 Max. Peak Inverse Volts, 1250				Max. DC Output Ma., 40 Max. Peak Plate Ma., 120		Min. Value of Input Choke, 13.5 henries			
7A4	Medium-Mu Triode	B5	5AC₂	H	6.3	0.3	Amplifier	For other characteristics, refer to Type 6J5.									
7A5	Beam Power Tube	C2a	6AA	H	6.3	0.75	Class A Amplifier	110 125	− 7.5 − 9.0	110 125	3.0 3.3	40.0 44.0	16000 17000	5800 6000	——	2500 2700	1.5 2.2

Discontinued types are shown in light face.

Type	Name	Tube Dimensions and Socket Connections: Dimen.	Tube Dimensions and Socket Connections: S. C.	Cathode Type and Rating: C. T.	Cathode Type and Rating: Volts	Cathode Type and Rating: Amp.	Use (Values to right give operating conditions and characteristics for indicated typical use)	Plate Supply Volts	Grid Bias ■ Volts	Screen Supply Volts	Screen Current Ma.	Plate Current Ma.	AC Plate Resistance Ohms	Transconductance (Grid-plate) µmhos	Amplification Factor	Load for Stated Power Output Ohms	Power Output Watts
14F8	Medium-Mu Twin Triode	B0b	8BW	H	12.6	0.15	Each Unit as Class A Amplifier	250	Cathode-Bias Res., 500 ohms			6.0	—	3300	48	—	—
14H7	Remote-Cutoff Pentode	B5	8V	H	12.6	0.15	Class A Amplifier	For other characteristics, refer to Type 7H7.									
14J7	Triode-Heptode Converter	B5	8BL	H	12.6	0.15	Converter	For other characteristics, refer to Type 7J7.									
14N7	Twin-Triode Amplifier	C2a	8AC	H	12.6	0.3	Each Unit as Class A Amplifier	For other characteristics, refer to Type 6J5.									
14Q7	Pentagrid Converter▲	B5	8AL	H	12.6	0.15	Converter	For other characteristics, refer to Type 6SA7.									
14R7	Twin-Diode Pentode	B5	8AE	H	12.6	0.15	Pentode Unit as Class A Amplifier	For other characteristics, refer to Type 7R7.									
15	RF Amplifier Pentode	D9	5F	D.C. H	2.0	0.22	Class A Amplifier	67.5 135	− 1.5 − 1.5	67.5 67.5	0.3 0.3	1.85 1.85	630000 800000	710 750	—	—	—
19	Twin-Triode Amplifier	D5	6C	D.C. F	2.0	0.26	Amplifier	For other characteristics, refer to Type 1J6-G.									
19BG6-G	Beam Power Tube	F1	5BT	H	18.9	0.3	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	7BF	H	18.9	0.15	Each Unit as Class A Amplifier	100	Cathode-Bias Res., 50% ohms			8.5	7100	5300	38	—	—
19T8	Triple-Diode High-Mu Triode	B0a	9E	H	18.9	0.15	Triode Unit as Class A Amplifier	For other characteristics, refer to Type 6T8.									
19X8	Triode-Pentode Converter	B0a	9AK	H	18.9	0.15	For characteristics, refer to Type 6X8.										
20	Power Amplifier Triode	D1	4D	D.C. F	3.3	0.132	Class A Amplifier	90 135	−16.5 −22.5	—	—	3.0 6.5	8000 6300	415 525	3.3 3.3	9600 6500	0.045 0.110
22	RF Amplifier Tetrode	E1	4K	D.C. F	3.3	0.132	Screen-Grid RF Amplifier	135 135	− 1.5 − 1.5	45 67.5	0.6* 1.3*	1.7 3.7	725000 325000	375 500	—	—	—
24-A	RF Amplifier Tetrode	E1	5E	H	2.5	1.75	Screen-Grid RF Amplifier	180 250	− 3.0 − 3.0	90 90	1.7* 1.7*	4.0 4.0	400000 600000	1000 1050	—	—	—
							Bias Detector	250✱	− 5.0 approx.	20 to 45	—	Plate current to be adjusted to 0.1 milliampere with no signal.					
25A6	Power Amplifier Pentode	C2	7S	H	25.0	0.3	Class A Amplifier	95 160	−15.0 −18.0	95 120	4.0 6.5	20.0 33.0	45000 42000	2000 2375	—	4500 5000	0.9 2.2
25A6-GT	Power Amplifier Pentode	C3	G-7S‡	H	25.0	0.3	Class A Amplifier	For other characteristics, refer to Type 25A6.									
25A7-GT	Rectifier Pentode	C3	8F	H	25.0	0.3	Pentode Unit as Class A Amplifier	100	−15.0	100	4.0*	20.5	50000	1800	—	4500	0.77
							Half-Wave Rectifier	Max. AC Plate Volts (RMS), 117 Max. Peak Inverse Volts, 350				Max. DC Output Ma., 75 Max. Peak Plate Ma., 450			Min. Total Effect. Supply Impedance, 15 ohms.		
25AC5-GT	High-Mu Power Amplifier Triode	C3	G-6Q‡	H	25.0	0.3	Class B Amplifier	180	0	—	—	4.0♠	—	—	—	4800	6.0
							Dynamic-Coupled Amp. With Type 6AE5-GT Driver	110	Bias for both 25AC5-GT and 6AE5-GT developed in circuit. Average Plate Current of Driver = 7 milliamperes. Average Plate Current of 25AC5-GT = 45 milliamperes.							2000	2.0
25B5	Direct-Coupled Power Amplifier	D9a	6D	H	25.0	0.3	Amplifier	For other characteristics, refer to Type 25N6-G.									
25B6-G	Power Amplifier Pentode	D10	G-7S‡	H	25.0	0.3	Class A Amplifier	105 200	−16.0 −23.0	105 135	2.0 1.8	48.0 62.0	15500 18000	4800 5000	—	1700 2500	2.4 7.1
25B8-GT	Triode-Pentode	C3	8T	H	25.0	0.15	Triode Unit as Class A Amplifier	100	− 1.0	—	—	0.6	75000	1500	112	—	—
							Pentode Unit as Class A Amplifier	100	− 3.0	100	2.0	7.6	185000	2000	—	—	—
25BQ6-GT	Beam Power Tube	C11	6AM	H	25.0	0.3	Horizontal Deflec-Amplifier in TV Receivers	For characteristics, refer to Type 6BQ6-GT.									
25BQ6-GTB/25CU6	Beam Power Tube	C11	6AM	H	25.0	0.3	Horizontal Deflection Amplifier in TV Receivers	Max. DC Plate Volts, 600 Max. DC Cathode Ma., 112.5					Absolute Max. Peak Positive-Pulse Plate Volts, 6000 Max. Plate Dissipation, 11 Watts				
25C6-G	Beam Power Tube	D10	G-7AC‡	H	25.0	0.3	Class A Amplifier	For other characteristics, refer to Type 6Y6-G.									
25CA5	Beam Power Tube	B1	7CV	H	25.0	0.3	Class A Amplifier	110 125	− 4.0 − 4.5	110 125	3.5 4.0	32 37	16000 15000	8100 9200	— —	3500 4500	1.1 1.5
25CD6-GA	Beam Power Tube	F1	5BT	H	25	0.6	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				
25L6	Beam Power Tube	C2	7AC	H	25.0	0.3	Amplifier	110 200	− 7.5 − 8.0	110 110	4.0 2.0	49.0 50.0	13000 30000	9000 9500	— —	2000 3000	2.1 4.3
25L6-GT	Beam Power Tube	C2b	G-7AC‡	H	25.0	0.3	Amplifier	For other characteristics, refer to Type 50L6-GT.									
25N6-G	Direct-Coupled Power Amplifier	D9	G-7W	H	25.0	0.3	Class A Amplifier	Output Triode: Plate Volts, 180; Plate Ma., 46; Load, 4000 ohms. Triode: Plate Volts, 100; Grid Volts, 0; A-F Signal Volts (Peak), 29.7; Plate Ma., 5.8.									3.8
25W4-GT	Half-Wave Rectifier	C2b	4CG	H	25.0	0.3	With Capacitive-Input Filter	Max. AC Plate Volts (RMS), 350 Max. Peak Inverse Volts, 2000 ϕ, 1250				Max. DC Output Ma., 125 Max. Peak Plate Ma., 600			Min. Total Effect. Supply Imped. per Plate, 145 ohms		
25Y5	Rectifier-Doubler	D5	6E	H	25.0	0.3	Half-Wave Rectifier	Max. AC Volts per Plate (RMS), 235 Max. DC Output Ma. per Plate, 75				Min. Total Effective Plate-Supply Impedance per Plate, 0 ohms.					
25Z5	Rectifier-Doubler	D5	6E	H	25.0	0.3	Rectifier-Doubler	For other ratings, refer to Type 25Z6.									

Discontinued types are shown in light face.

Type	Name	Tube Dimensions and Socket Connections: Dimen.	S. C.	Cathode Type and Rating: C. T.	Volts	Amp.	Use (Values to right give operating conditions and characteristics for indicated typical use)	Plate Supply Volts	Grid Bias ■ Volts	Screen Supply Volts	Screen Current Ma.	Plate Current Ma.	AC Plate Resistance Ohms	Transconductance (Grid-plate) μmhos	Amplification Factor	Load for Stated Power Output Ohms	Power Output Watts
25Z6	Vacuum Rectifier-Doublers	C2	7Q	H	25.0	0.3	Voltage Doubler	Max. AC Volts per Plate (RMS), 117 Max. DC Output Ma., 75				Min. Total Effective Plate-Supply Impedance: Half-Wave, 30 ohms; Full-Wave, 15 ohms.					
25Z6-GT		C2b	G-7Q‡				Half-Wave Rectifier	Max. AC Volts per Plate (RMS), 235 Max. DC Output Ma. per Plate, 75				Min. Total Effect. Supply Imped. per Plate: Up to 117 volts, 15 ohms; at 150 volts, 40 ohms; at 235 volts, 100 ohms.					
26	Amplifier Triode	D12	4D	F	1.5	1.05	Class A Amplifier	90 180	− 7.0 −14.5	—	—	2.9 6.2	8900 7300	935 1150	8.3 8.3	—	—
27	Detector★ Amplifier Triode	D5	$5A_1$	H	2.5	1.75	Class A Amplifier	135 250	− 9.0 −21.0	—	—	4.5 5.2	9000 9250	1000 975	9.0 9.0	—	—
							Bias Detector	250	(−30.0 approx.)	—	—	Plate current to be adjusted to 0.2 milliampere with no signal.					
30	Medium-Mu Triode	D5	4D	D.C. F	2.0	0.06	Amplifier	For other characteristics, refer to Type 1H4-G.									
31	Power Amplifier Triode	D5	4D	D.C. F	2.0	0.13	Class A Amplifier	135 180	−22.5 −30.0	—	—	8.0 12.3	4100 3600	925 1050	3.8 3.8	7000 5700	0.185 0.375
32	RF Amplifier Tetrode	E1	4K	D.C. F	2.0	0.06	Screen-Grid RF Amplifier	135 180	− 3.0 − 3.0	67.5 67.5	0.4 0.4	1.7 1.7	950000 1.0+§	640 650	—	—	—
							Bias Detector	180♥	(− 6.0 approx.)	67.5	—	Plate current to be adjusted to 0.2 milliampere with no signal.					
32L7-GT	Rectifier-Beam Power Amplifier	C3	8Z	H	32.5	0.3	Amplifier Unit as Class A Amplifier	90 90	− 5.0 − 7.0	90 90	3.0 2.0	38.0 27.0	15000 17000	6000 4800	—	2600 2600	0.8 1.0
							Half-Wave Rectifier	Maximum AC Plate Voltage.....125 Volts, RMS Maximum DC Output Current..... 60 Milliamperes.									
33	Power Amplifier Pentode	D12	5K	D.C. F	2.0	0.26	Class A Amplifier	180	−18.0	180	5.0	22.0	55000	1700	—	6000	1.5
34	Remote-Cutoff Pentode	E1	4M	D.C. F	2.0	0.06	Screen-Grid RF Amplifier	135 180	(− 3.0 min.)	67.5 67.5	1.0 1.0	2.8 2.8	600000 1.0§	600 620	—	—	—
35	Remote-Cutoff Tetrode	E1	5E	H	2.5	1.75	Screen-Grid RF Amplifier	180 250	(− 3.0 min.)	90 90	2.5* 2.5*	6.3 6.5	300000 400000	1020 1050	—	—	—
35A5	Beam Power Tube	C2a	6AA	H	35.0	0.15	Single-Tube Class A Amplifier	For other characteristics, refer to Type 35L6-GT.									
35B5	Beam Power Tube	B1	7BZ	H	35.0	0.15	Class A Amplifier	For other characteristics, refer to Type 35C5.									
35C5	Beam Power Tube	B1	7CV	H	35.0	0.15	Class A Amplifier	110	− 7.5	110	3.0	40.0	13000	5800	—	2500	1.5
35L6-GT	Beam Power Tube	C2b	G-7AC‡	H	35.0	0.15	Single-Tube Class A Amplifier	110 200	− 7.5 △	110 125	3.0 2.0	40.0 43.0	14000 34000	5800 6100	—	2500 5000	1.5 3.0

35W4	Half-Wave Rectifier Heater Tap for Pilot	B1	5BQ	H	35.0	0.15	With Capacitive-Input Filter	Max AC Plate Volts (RMS), 117 Max. DC Output Ma., With Pilot and No Shunt Res., 60; With Pilot and Shunt Res., 90; Without Pilot, 100. Min. Total Effect. Plate-Supply Impedance, 15 ohms.									
		Pilot Between Pins 4 and 6															
35Y4	Half-Wave Rectifier Heater Tap for Pilot	C2a	5AL	H	35.0	0.15	With Capacitive-Input Filter	For other characteristics, refer to Type 35W4									
		Pilot Between Pins 1 and 4															
35Z3	Half-Wave Rectifier	C2a	4Z	H	35.0	0.15	With Capacitive-Input Filter	For other ratings, refer to Type 35Z4-GT.									
35Z4-GT	Half-Wave Rectifier	C2b	G-5AA	H	35.0	0.15	With Capacitive-Input Filter	Max. AC Plate Volts (RMS), 235 Max. DC Output Ma., 100 Min. Total Effective Plate-Supply Impedance: Up to 117 volts, 15 ohms, at 235 volts, 100 ohms.									
35Z5-GT	Half-Wave Rectifier Heater Tap for Pilot	C2b	G-6AD	H	35.0	0.15	With Capacitive-Input Filter	Max. AC Plate Volts (RMS), 235 Min. Total Effect. Plate-Supply Imped.: Up to 117 volts, 15 ohms; at 235 volts, 100 ohms. Max. DC Output Ma.: With Pilot and No Shunt Res., 60; With Pilot and Shunt Res., 90, Without Pilot, 100.									
		Pilot Between Pins 2 and 3															
36	RF Amplifier Tetrode	D9	5E	H	6.3	0.3	Screen-Grid RF Amplifier	100 250	− 1.5 − 3.0	55 90	— 1.7*	1.8 3.2	550000 550000	850 1080	—	—	—
							Bias Detector	100 250	− 5.0 − 8.0	55 90	—	Grid-bias values are approximate. Plate current to be adjusted to 0.1 milliampere with no signal.					
37	Detector★ Amplifier Triode	D5	$5A_1$	H	6.3	0.3	Class A Amplifier	90 250	− 6.0 −18.0	—	—	2.5 7.5	11500 8400	800 1100	9.2 9.2	—	—
							Bias Detector	90 250	−10.0 −28.0	—	—	Grid-bias values are approximate. Plate current to be adjusted to 0.2 milliampere with no signal.					
38	Power Amplifier Pentode	D9	5F	H	6.3	0.3	Class A Amplifier	100 250	− 9.0 −25.0	100 250	1.2 3.8	7.0 22.0	140000 100000	875 1200	—	15000 10000	0.27 2.50
39/44	Remote-Cutoff Pentode	D9	5F	H	6.3	0.3	Class A Amplifier	90 250	(− 3.0 min.)	90 90	1.6 1.4	5.6 5.8	400000 1.0§	1000 1050	—	—	—
40	Medium-Mu Triode	D12	4D	D.C. F	5.0	0.25	Class A Amplifier	135× 180×	− 1.5 − 3.0	—	—	0.2 0.2	150000 150000	200 200	30 30	—	—
41	Power Amplifier Pentode	D5	6B	H	6.3	0.4	Amplifier	For other characteristics, refer to Type 6K6-GT.									
42	Power Amplifier Pentode	D12	6B	H	6.3	0.7	Amplifier	For other characteristics, refer to Type 6F6-G.									
43	Power Amplifier Pentode	D12	6B	H	25.0	0.3	Amplifier	For other characteristics, refer to Type 25A6.									
45	Power Amplifier Triode	D12	4D	F	2.5	1.5	Class A Amplifier	180 275	−31.5 −56.0	—	—	31.0 36.0	1650 1700	2125 2050	3.5 3.5	2700 4600	0.82 2.00
							Push-Pull Class AB_1 Amplifier	275 275	Cath. Bias, 775 ohms♠ −68.0 volts, fixed bias			36.0♠ 28.0♠	—	—	—	5060 3200	12.0† 18.0†
45Z3	Half-Wave Rectifier	B0	5AM	H	45.0	0.075	Half-Wave Rectifier	Max. AC Plate Volts (RMS), 117 Max. Peak Inverse Volts, 350 Max. DC Output Ma., 65 Max. Peak Plate Ma., 390 Min. Total Effect. Plate-Supply Imped., 15 ohms.									
45Z5-GT	Half-Wave Rectifier Heater Tap for Pilot	C2b	G-6AD	H	45.0	0.15	With Capacitive-Input Filter	For other ratings, refer to Type 35Z5-GT.									
		Pilot Between Pins 2 and 3															
46	Dual-Grid Power Amplifier	E3	5C	F	2.5	1.75	Class A Amplifier□	250	−33.0	—	—	22.0	2380	2350	5.6	6400	1.25
							Class B Amplifier◆	300 400	0 0	—	—	8.0♠ 12.0♠	—	—	—	5200 5800	16.0† 20.0†

Discontinued types are shown in light face.

Type	Name	Tube Dimensions and Socket Connections: Dimen.	S. C.	Cathode Type and Rating: C. T.	Volts	Amp.	Use (Values to right give operating conditions and characteristics for indicated typical use)	Plate Supply Volts	Grid Bias ■ Volts	Screen Supply Volts	Screen Current Ma.	Plate Current Ma.	AC Plate Resistance Ohms	Transconductance (Grid-plate) μmhos	Amplification Factor	Load for Stated Power Output Ohms	Power Output Watts
47	Power Amplifier Pentode	E3	5B	F	2.5	1.75	Class A Amplifier	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 Class A Amplifier	96 125	−19.0 −20.0	96 100	9.0 9.5	52.0 56.0	— —	3800 3900	— —	1500 1500	2.0 2.5
							Tetrode Push-Pull Class A Amplifier	125	−20.0	100	—	100.0♠	—	—	—	3000	5.0†
49	Dual-Grid Power Amplifier	D12	5C	D.C. F	2.0	0.12	Class A Amplifier □	135	−20.0	—	—	6.0	4175	1125	4.7	11000	0.17
							Class B Amplifier✦	180	0	—	—	4.0♠	—	—	—	12000	3.5†
50	Power Amplifier Triode	F1a	4D	F	7.5	1.25	Class A Amplifier	300 400 450	−54.0 −70.0 −84.0	— — —	— — —	35.0 55.0 55.0	2000 1800 1800	1900 2100 2100	3.8 3.8 3.8	4600 3670 4350	1.6 3.4 4.6
50A5	Beam Power Tube	C2a	6AA	H	50.0	0.15	Class A Amplifier	For other characteristics, refer to Type 50L6-GT.									
50B5	Beam Power Tube	B1	7BZ	H	50.0	0.15	Class A Amplifier	For other characteristics, refer to Type 50C5.									
50C5	Beam Power Tube	B1	7CV	H	50.0	0.15	Class A Amplifier	110	− 7.5	110	4.0	49.0	10000	7500	—	2500	1.9
50C6-G	Beam Power Tube	D10	7AC	H	50.0	0.15	Single-Tube Class A Amplifier	135 200	−13.5 −14.0	135 135	3.5 2.2	58.0 61.0	9300 18300	7000 7100	— —	2000 2600	3.6 6.0
50L6-GT	Beam Power Tube	C2b	G-7AC‡	H	50.0	0.15	Single-Tube Class A Amplifier	100 200	− 7.5 △	110 125	4.0 2.2	49.0 46.0	13000 28000	8000 8000	—	2000 4000	2.1 3.8
50X6	Rectifier-Doubler	C2a	7AJ	H	50.0	0.15	Rectifier-Doubler	Max. AC Volts per Plate (RMS), 117 Max. DC Output Ma., 75				Min. Total Effective Plate-Supply Impedance: Half-Wave, 30 ohms; Full-Wave, 15 ohms.					
							Half-Wave Rectifier	Max AC Volts per Plate (RMS), 235 Max. DC Output Ma. per Plate, 75				Min. Total Effect. Supply Imped. per Plate: Up to 117 volts, 15 ohms; at 150 volts, 40 ohms; at 235 volts, 100 ohms.					
50Y6-GT	Rectifier-Doubler	C2b	G-7Q‡	H	50.0	0.15	Rectifier-Doubler	For other ratings, refer to Type 25Z6.									
50Y7-GT	Rectifier-Doubler Heater Tap for Pilot	C2b	8AN	H	50.0	0.15	Voltage Doubler	Max. AC Volts per Plate (RMS), 117 Max. DC Output ma., 65				Min. Total Effective Plate-Supply Impedance per Plate, 15 ohms					
		Pilot Between Pins 6 and 7					Half-Wave Rectifier	Max. AC Volts per Plate (RMS), 235 Max. DC Output ma. per Plate, 65				Min. Total Effec. Plate-Supply Imped. per Plate: Up to 117 volts, 15 ohms; at 150 volts, 40 ohms; at 235 volts, 100 ohms					
50Z7-G	Rectifier-Doubler Heater Tap for Pilot	D3	G-8AN	H	50.0	0.15	Voltage Doubler	Max. AC Volts per Plate (RMS), 117 Max. DC Output Ma., 65				Min. Total Effective Plate-Supply Impedance: 15 ohms.					
		Pilot Between Pins 6 and 7					Half-Wave Rectifier	Max. AC Volts per Plate (RMS), 235 Max. DC Output Ma. per Plate, 65				Min. Total Effective Plate-Supply Impedance per Plate: Up to 117 volts, 15 ohms; at 235 volts, 100 ohms.					

53	Twin-Triode Amplifier	D12	7B	H	2.5	2.0	Amplifier	For other characteristics, refer to Type 6N7-GT.									
55	Duplex-Diode Triode	D9	6G	H	2.5	1.0	Triode Unit as Amplifier	For other characteristics, refer to Type 85.									
56	Medium-Mu Triode★	D5	5A1	H	2.5	1.0	Amplifier Detector	For other characteristics, refer to Type 76.									
57	Sharp-Cutoff Pentode	D13	6F	H	2.5	1.0	Amplifier Detector	For other characteristics, refer to Type 6J7.									
58	Remote-Cutoff Pentode	D13	6F	H	2.5	1.0	Amplifier Mixer	For other characteristics, refer to Type 6U7-G.									
59	Triple-Grid Power Amplifier	E3	7A	H	2.5	2.0	Triode¶ Class A Amplifier	250	−28.0	—	—	26.0	2300	2600	6.0	5000	1.25
							Pentode** Class A Amplifier	250	−18.0	250	9.0	35.0	55000	2500	—	6000	3.0
							Triode✱ Class B Amplifier	300 400	0 0	— —	— —	20.0♠ 26.0♠	— —	— —	— —	4600 6000	15.0† 20.0†
70L7-GT	Rectifier-Beam Power Amplifier	C10	8AA	H	70.0	0.15	Amplifier Unit as Class A Amplifier	110	− 7.5	110	3.0	40.0	15000	7500	—	2000	1.8
							Half-Wave Rectifier	Max. AC Plate Volts (RMS), 117 Max. Peak Inverse Volts, 350				Max. DC Output Ma., 70 Max. Peak Plate Ma., 420			Min. Total Effect. Plate-Supply Imped., 15 ohms		
71-A	Power Amplifier Triode	D12	4D	F	5.0	0.25	Class A Amplifier	90 180	−16.5 −40.5	— —	— —	10.0 20.0	2170 1750	1400 1700	3.0 3.0	3000 4800	0.125 0.790
75	Twin-Diode High-Mu Triode	D9	6G	H	6.3	0.3	Amplifier	For other characteristics, refer to Type 6SQ7.									
76	Detector Amplifier Triode★	D5	5A1	H	6.3	0.3	Class A Amplifier	250	−13.5	—	—	5.0	9500	1450	13.8	—	—
							Bias Detector	250	(− 20.0 approx.)	—	—	Plate current to be adjusted to 0.2 milliampere with no signal.					
77	Triple-Grid Detector Amplifier	D9	6F	H	6.3	0.3	Class A Amplifier	100 250	− 1.5 − 3.0	60 100	0.4 0.5	1.7 2.3	600000 1.0+§	1100 1250	—	—	—
							Bias Detector	250	− 1.95	50	Cathode current 0.65 ma.		—	Plate Resistor, 250000 ohms. Grid Resistor,** 250000 ohms.			
78	Remote-Cutoff Pentode	D9	6F	H	6.3	0.3	Amplifier Mixer	For other characteristics, refer to Type 6K7.									
79	Twin-Triode Amplifier	D9	6H	H	6.3	0.6	Class B Amplifier	180 250	0 0	— —	—	Power Output is for one tube at stated plate-to-plate load.				7000 14000	5.5 8.0
80	Full-Wave Rectifier	D12	4C	F	5.0	2.0	With Capacitive-Input Filter	Max. AC Volts per Plate (RMS), 350 Max. Peak Inverse Volts, 1400				Max. DC Output Ma., 125 Max. Peak Plate Ma., 375			Min. Total Effect. Supply Imped. per Plate, 50 ohms		
							With Inductive-Input Filter	Max. AC Volts per Plate (RMS), 500 Max. Peak Inverse Volts, 1400				Max DC Output Ma., 125 Max. Peak Plate Ma., 375			Min. Value of Input Choke, 10 henries		
81	Half-Wave Rectifier	F1a	4B	F	7.5	1.25	With Capacitive-Input Filter	Max. AC Plate Volts (RMS), 700 Max. Peak Inverse Volts, 2000						Max. DC Output Ma., 85 Max. Peak Plate Ma., 500			
82	Full-Wave➤ Rectifier	D12	4C	F	2.5	3.0	With Capacitive-Input Filter	Max. AC Volts per Plate (RMS), 450 Max. Peak Inverse Volts, 1550				Max. DC Output Ma., 115 Max. Peak Plate Ma., 600			Min. Total Effect. Supply Imped. per Plate, 50 ohms.		
							With Inductive-Input Filter	Max. AC Volts per Plate (RMS), 550 Max. Peak Inverse Volts, 1550				Max. DC Output Ma., 115 Max. Peak Plate Ma., 600			Min. Value of Input Choke, 6 henries		

Discontinued types are shown in light face.

Type	Name	Tube Dimensions and Socket Connections: Dimen.	S. C.	Cathode Type and Rating: C. T.	Volts	Amp.	Use (Values to right give operating conditions and characteristics for indicated typical use)	Plate Supply Volts	Grid Bias ■ Volts	Screen Supply Volts	Screen Current Ma.	Plate Current Ma.	AC Plate Resistance Ohms	Transconductance (Grid-plate) μmhos	Amplification Factor	Load for Stated Power Output Ohms	Power Output Watts
83	Full-Wave▶ Rectifier	E3	4C₁	F	5.0	3.0	With Capacitive-Input Filter	Max. AC Volts per Plate (RMS), 450 Max. Peak Inverse Volts, 1550				Max. DC Output Ma., 225 Max. Peak Plate Ma., 1000			Min. Total Effect. Supply Imped. per Plate, 50 ohms.		
							With Inductive-Input Filter	Max. AC Volts per Plate (RMS), 550 Max. Peak Inverse Volts, 1550				Max. DC Output Ma., 225 Max. Peak Plate Ma., 1000			Min. Value of Input Choke, 3 henries		
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. Peak Inverse Volts, 1250				Max. DC Output Ma., 60 Max. Peak Plate Ma., 180			Min. Total Effect. Supply Imped. per Plate, 150 ohms.		
							With Inductive-Input Filter	Max. AC Volts per Plate (RMS), 450 Max. Peak Inverse Volts, 1250				Max. DC Output Ma., 60 Max. Peak Plate Ma., 180			Min. Value of Input Choke, 10 henries		
85	Twin-Diode Triode	D9	6G	H	6.3	0.3	Triode Unit as Class A Amplifier	135 250	−10.5 −20.0	—	—	3.7 8.0	11000 7500	750 1100	8.3 8.3	25000 20000	0.075 0.350
89	Triple-Grid Power Amplifier	D9	6F	H	6.3	0.4	As Triode¶ Class A Amplifier	160 250	−20.0 −31.0	—	—	17.0 32.0	3300 2600	1425 1800	4.7 4.7	7000 5500	0.30 0.90
							As Pentode■■ Class A Amplifier	100 250	−10.0 −25.0	100 250	1.6 5.0	9.5 32.0	104000 70000	1200 1800	—	10700 6750	0.33 3.40
							As Triode● Class B Amplifier	180	0	—	—	6.0♠	—	—	—	13600 9400	2.50† 3.50†
V-99 X-99	Detector★ Amplifier Triodes	C4 D1	4E 4D	D.C. F	3.3	0.063	Class A Amplifier	90	− 4.5	—	—	2.5	15500	425	6.6	—	—
112-A	Detector★ Amplifier Triode	D12	4D	D.C. F	5.0	0.25	Class A Amplifier	90 180	− 4.5 −13.5	—	—	5.0 7.7	5400 4700	1575 1800	8.5 8.5	—	—
117L7/ M7-GT	Rectifier-Beam Power Tube	C10	8AO	H	117	0.09	Amplifier Unit as Class A Amplifier	105	− 5.2	105	4.0	43.0	17000	5300	—	4000	0.85
							Half-Wave Rectifier	Max. AC Plate Volts (RMS), 117 Max. Peak Inverse Volts, 350				Max. DC Output Ma., 75 Max. Peak Plate Ma., 450			Min. Total Effect. Plate-Supply Imped., 15 ohms.		
117N7-GT	Rectifier-Beam Power Tube	C10	8AV	H	117	0.09	Amplifier Unit as Class A Amplifier	100	− 6.0	100	5.0	51.0	16000	7000	—	3000	1.2
							Half-Wave Rectifier	Max. AC Plate Volts (RMS), 117 Max. Peak Inverse Volts, 350				Max. DC Output Ma., 75 Max. Peak Plate Ma., 450			Min. Total Effect. Plate-Supply Impedance, 15 ohms.		
117P7-GT	Rectifier-Beam Power Tube	C10	8AV	H	117	0.09	Amplifier Unit as Class A Amplifier	For other characteristics, refer to Type 117L7/M7-GT.									
							Half-Wave Rectifier	For other ratings, refer to Type 117L7/M7-GT.									

117Z3	Half-Wave Rectifier	B1a	4CB	H	117	0.04	With Capacitive-Input Filter	Max. AC Plate Volts (RMS), 117 Max. Peak Inverse Volts, 330				Max. DC Output Ma., 90 Max. Peak Plate Ma., 540			Min. Total Effect. Plate-Supply Imped., 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. Peak Inverse Volts, 350				Max. DC Output ma., 90 Max. Peak Plate ma., 540			Min. Total Effect. Plate-Supply Imped., 30 ohms		
117Z6-GT	Rectifier-Doubler	C2b	G-7Q‡	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.					
							Half-Wave Rectifier	Max. AC Volts per Plate (RMS), 235 Max. DC Output Ma. per Plate, 60				Min. Total Effect. Supply Imped. per Plate: Up to 117 volts, 15 ohms; at 150 volts, 40 ohms; at 235 volts, 100 ohms.					
183/ 483	Power Amplifier Triode	D12	4D	F	5.0	1.25	Class A Amplifier	250	−60.0	—	—	30.0	1750	1700	3.0	5000	1.8
485	Detector Amplifier Triode	D5	5A₁	H	3.0	1.25	Class A Amplifier	180	− 9.0	—	—	5.8	8900	1400	12.5	—	—
876	Current Regulator	G1	—	F	—	—	Voltage Range ..... 40 to 60 Volts					Operating Current ..... 1.7 Amperes					
886	Current Regulator	G1	—	F	—	—	Voltage Range ..... 40 to 60 Volts					Operating Current ..... 2.05 Amperes					

Discontinued types are shown in light face.

KEY TO TUBE DIMENSIONS

Symbol	Maximum Overall Length x Diameter	Symbol	Maximum Overall Length x Diameter	Symbol	Maximum Overall Length x Diameter	Symbol	Maximum Overall Length x Diameter	Symbol	Maximum Overall Length x Diameter
A	1 3/4" x 3/8"	B4	2 15/16" x 7/8"	C5	3 3/8" x 1 9/32"	D4	4 3/16" x 1 3/16"	D13	4 15/16" x 1 9/16"
A1	1 3/4" x 3/4"	B4a	3 1/16" x 7/8"	C6	3 7/16" x 1 5/16"	D5	4 1/16" x 1 9/16"	E0	5 1/8" x 1 23/32"
A1a	1 3/4" x 1 5/16"	B5	2 25/32" x 1 3/16"	C9a	3 9/16" x 1 9/32"	D7	4 5/16" x 1 5/8"	E0a	5 1/8" x 2 1/16"
A1b	1 3/4" x 7/8"	B5a	2 7/8" x 1 5/16"	C10	3 7/16" x 1 9/32"	D8	4 15/32" x 1 9/16"	E1	5 1/32" x 1 13/16"
B0	2 1/8" x 3/4"	C0	3" x 1 9/32"	C10a	3 9/16" x 1 5/16"	D8a	4 11/16" x 1 7/16"	E1a	5 7/32" x 1 23/32"
B0a	2 3/16" x 7/8"	C0a	3 1/16" x 1 9/32"	C10b	3 13/16" x 1 9/32"	D8b	4 5/8" x 1 23/32"	E2	5 5/16" x 1 1/16"
B0b	2 9/32" x 1 3/16"	C1	3 1/8" x 1 5/16"	C11	3 7/8" x 1 9/32"	D9	4 17/32" x 1 9/16"	E2a	5 7/32" x 1 23/32"
B0c	2 5/16" x 1 9/32"	C2	3 1/4" x 1 5/16"	C11a	3 7/8" x 1 9/16"	D9a	4 19/32" x 1 9/16"	E3	5 3/8" x 2 1/16"
B1	2 5/8" x 3/4"	C2a	3 5/32" x 1 3/16"	D1	4" x 1 3/16"	D10	4 1/8" x 1 13/16"	E3a	5 5/16" x 2 1/16"
B1a	2 5/8" x 1 1/16"	C2b	3 5/16" x 1 9/32"	D2	4 1/16" x 1 9/32"	D12	4 11/16" x 1 13/16"	F1	5 11/16" x 2 1/16"
B2	2 5/8" x 1 5/16"	C3	3 5/16" x 1 5/16"	D2a	4 1/8" x 1 3/16"	D12a	4 7/8" x 1 9/16"	F1a	6 1/4" x 2 7/16"
B3	2 5/8" x 7/8"	C4	3 1/2" x 1 1/16"	D3	4 1/8" x 1 9/16"	D12aa	4 1/4" x 1 23/32"	G1	8" x 2 1/16"

★ 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 ½ (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.

ω 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.

AA 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.

✖ Applied through plate resistor of 250000 ohms.

□ Grid # 2 tied to plate

°° Applied through plate resistor of 150000 ohms.

* Maximum.

§ Megohms.

50000 ohms.

♦ Grids # 1 and # 2 tied together

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_1) indicates that grid current does not flow during any part of input cycle.

Subscript 2 on class of amplifier service (as AB_2) 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

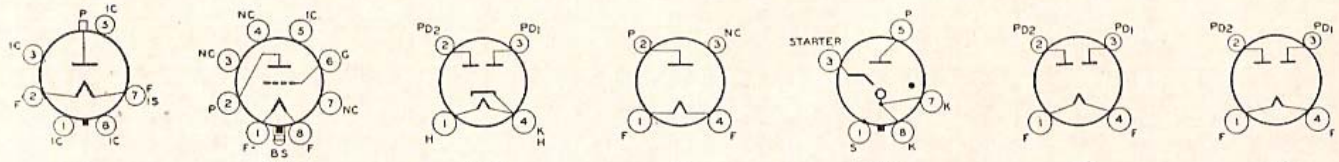
Subscripts B, D, HP, HX, P, T, and TR indicate, respectively, beam unit, diode unit, heptode unit, hexode unit, pentode unit, triode unit, and tetrode unit in multi-unit types.

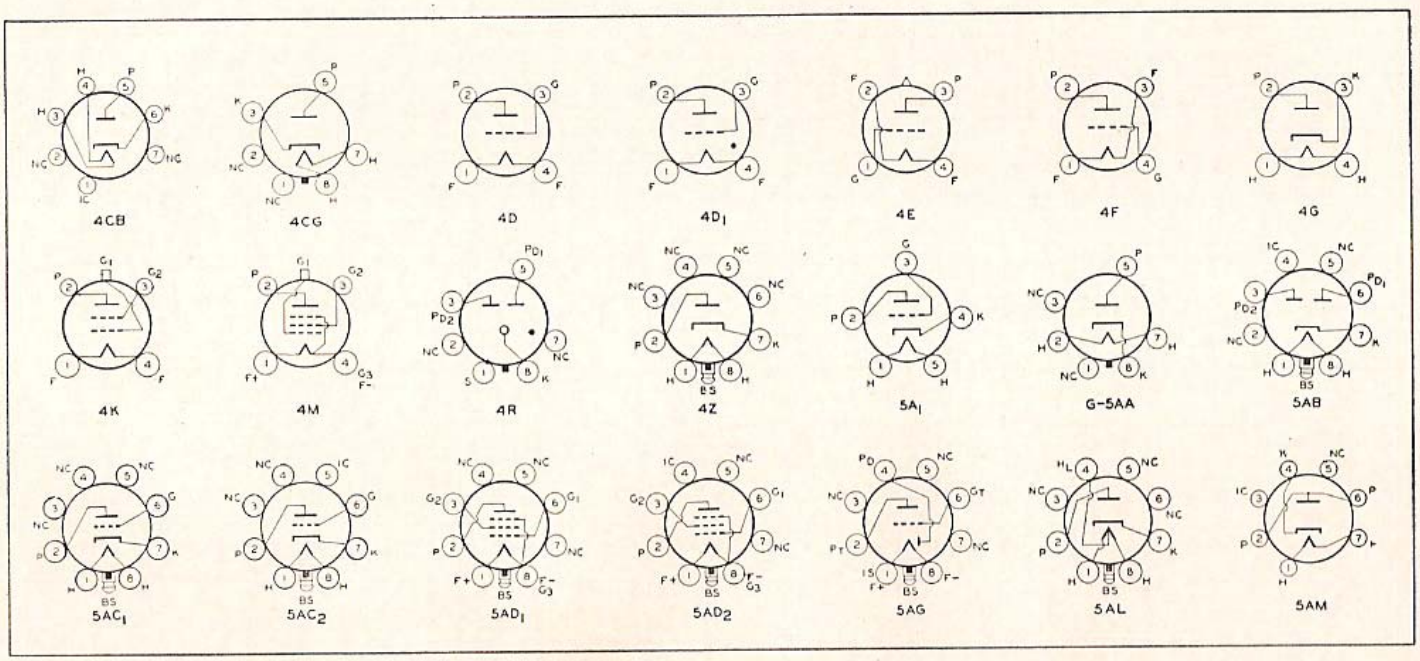
BC = Base Sleeve
BS = Base Shell
DJ = Deflecting Electrode
ES = External Shield
F = Filament
F_M = Filament Mid-Tap

G = Grid
H = Heater
H_L = Heater Tap for Panel Lamp
H_M = Heater Mid-Tap
HS = Heater Shield

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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4D1
4E
4F
4G
4K
4M
4R
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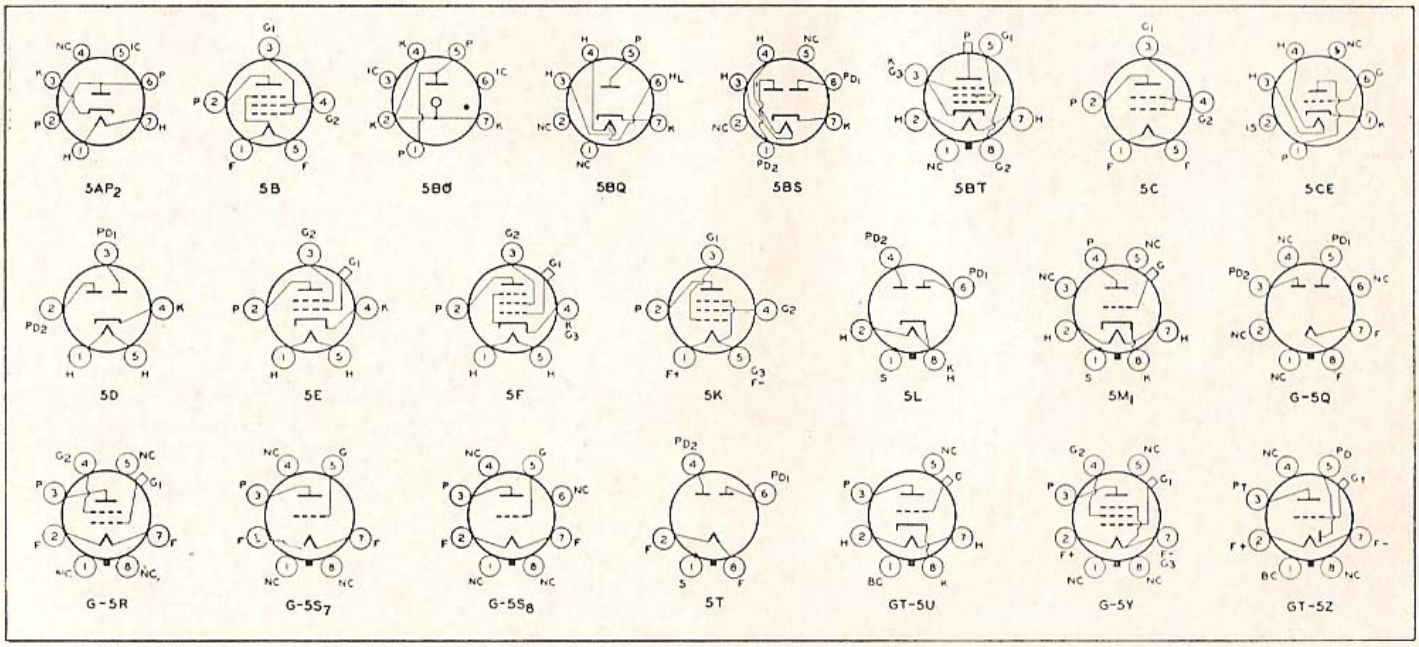
5AC2
5AD1
5AD2
5AG
5AL
5AM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5B
5BØ
5BQ
5BS
5BT
5C
5CE
5D
5E
5F
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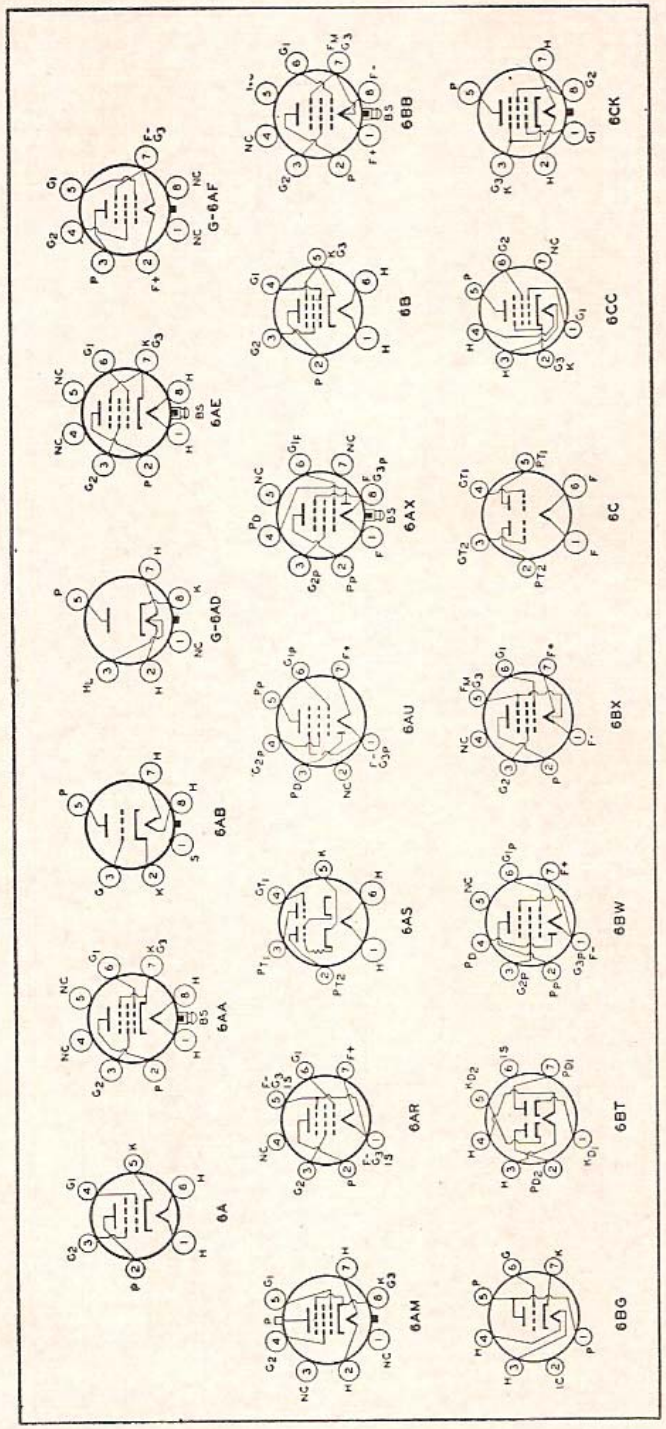
G-5S8
5T
GT-5U
G-5Y
GT-5Z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G-6AD
G-6AF
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6AU
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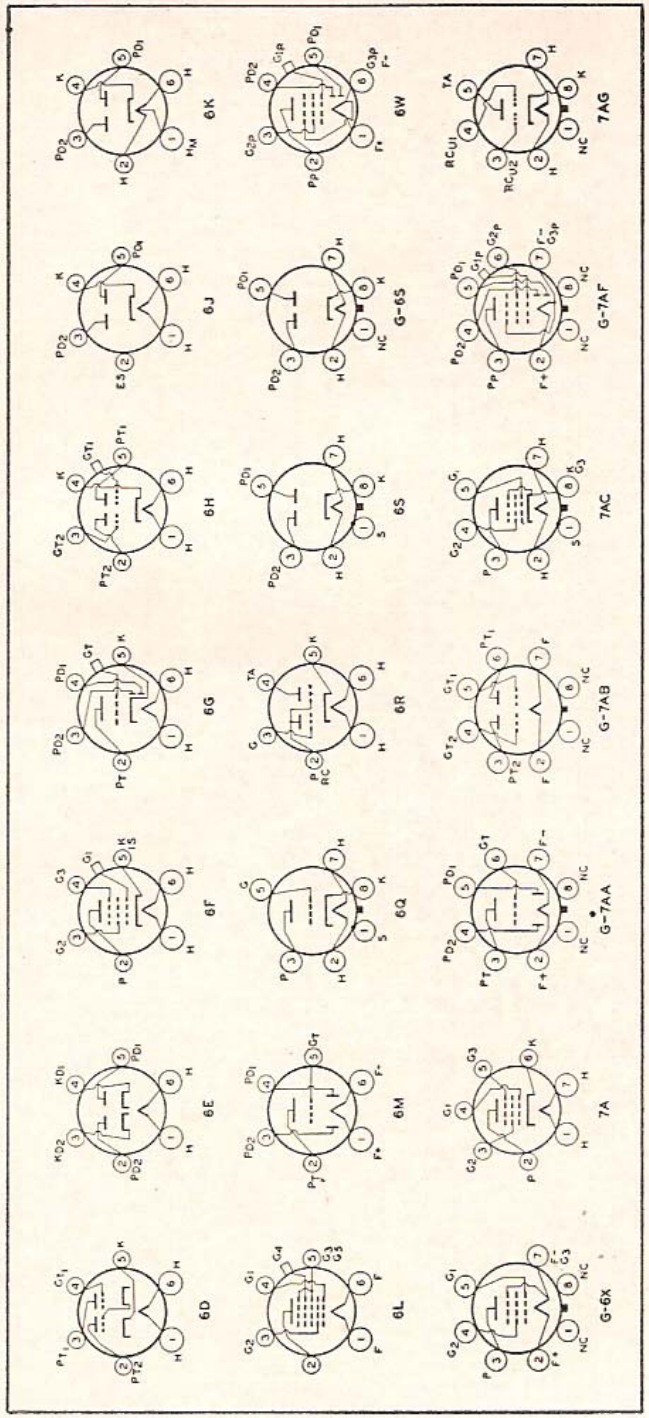
6B
6BB
6BG
6BT
6BW
6BX
6C
6CC
6CK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6F
6G
6H
6J
6K
6L
6M
6Q
6R
6S
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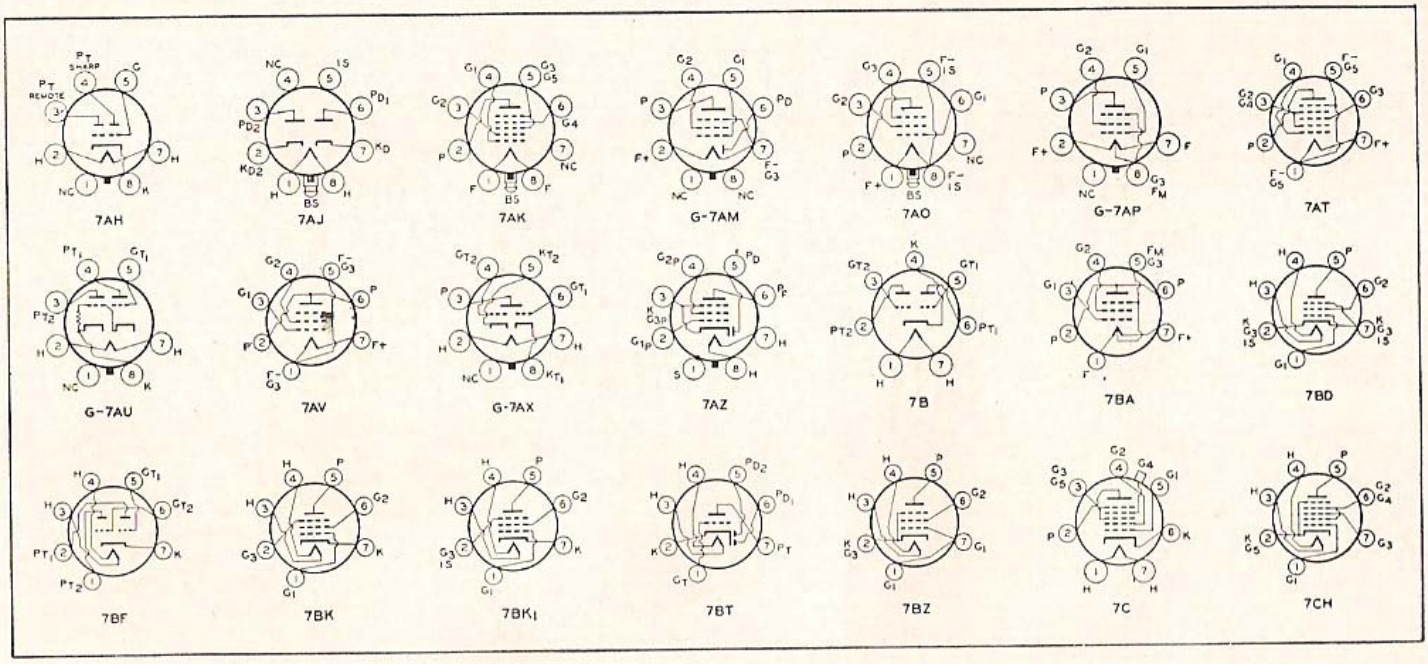
6W
G-6X
G-7AA
G-7AB
7AC
G-7AF
7AG
7A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7AK
G-7AM
7AO
G-7AP
7AT
G-7AU
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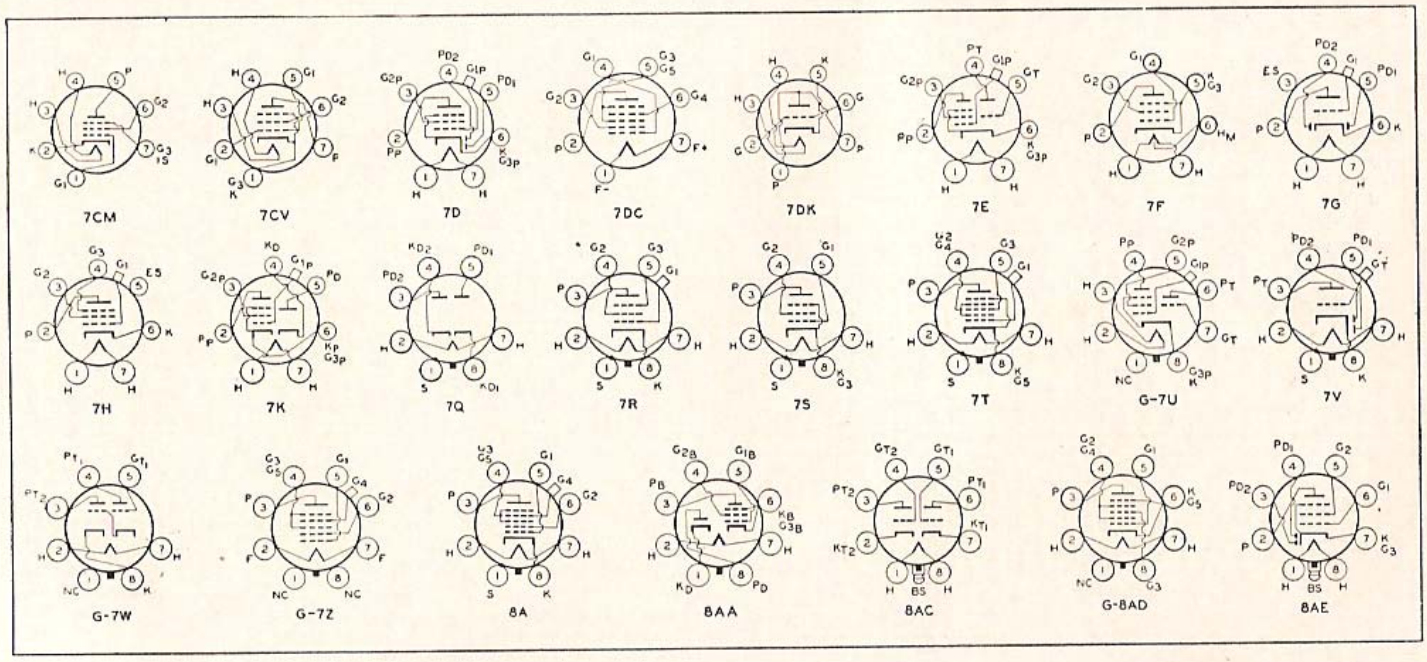
7B
7BA
7BD
7BF
7BK
7BK1
7BT
7BZ
7C
7CH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7F
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7H
7K
7Q
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7T
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7V
G-7W
G-7Z
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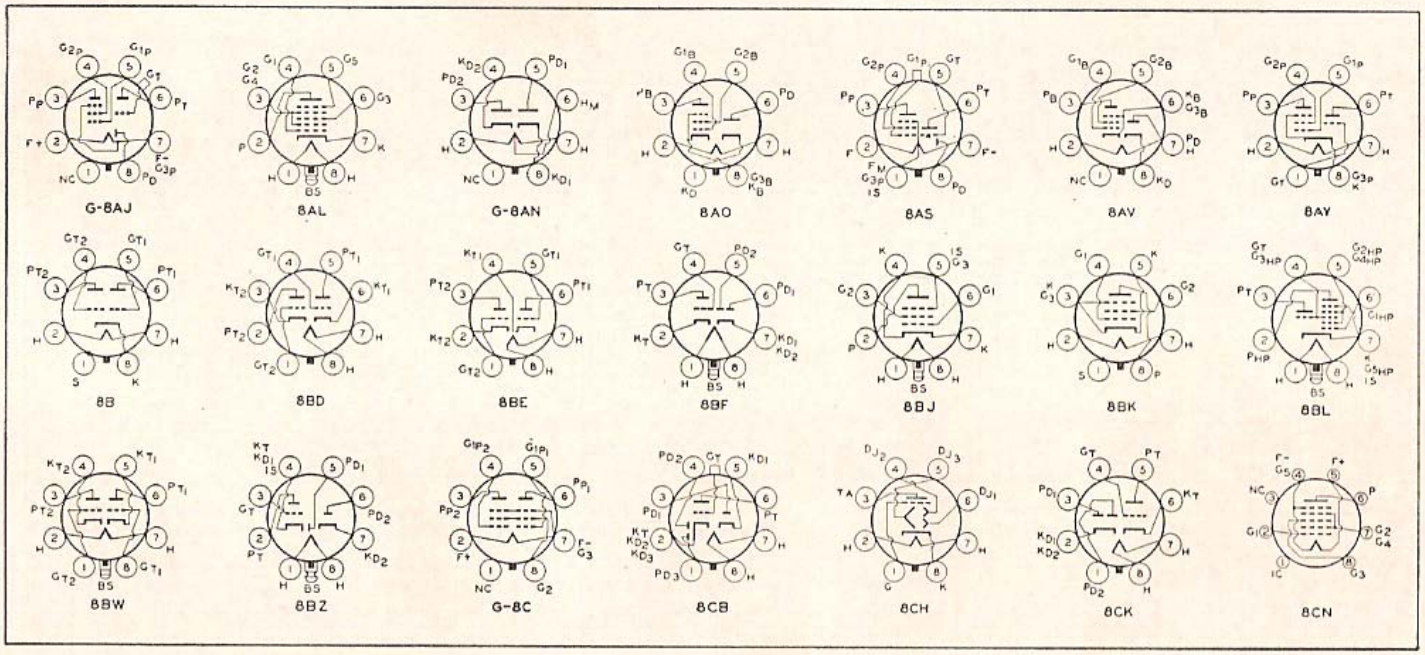
G-8AD
8AE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8AO
8AS
8AV
8AY
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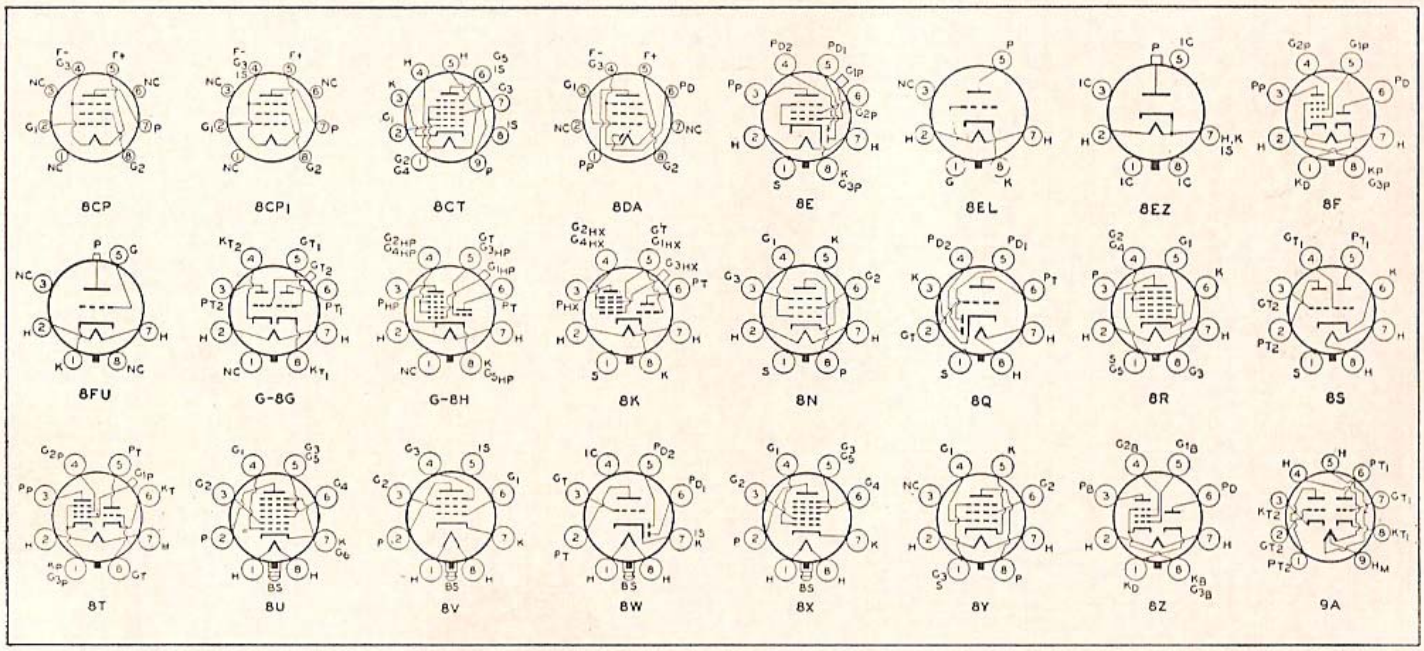
8BW
8BZ
G-8C
8CB
8CH
8CK
8CN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8CP1
8CT
8DA
8E
8EL
8EZ
8F
8FU
G-8G
G-8H
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8N
8Q
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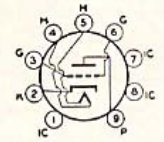
8S
8T
8U
8V
8W
8X
8Y
8Z
9A



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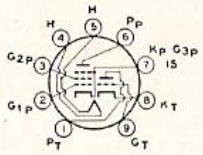

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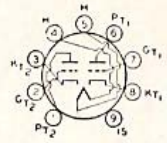

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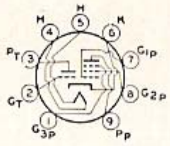

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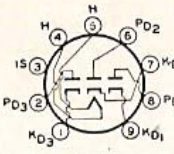

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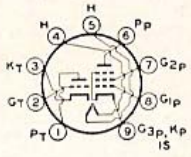

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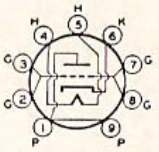

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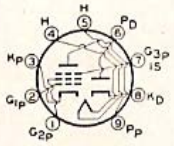

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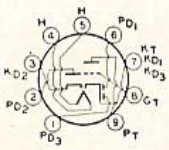

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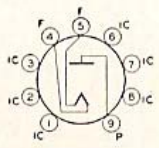

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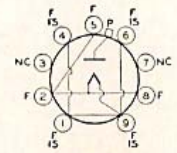

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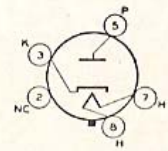

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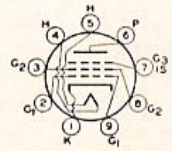

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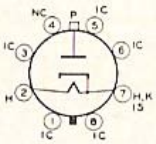

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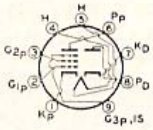

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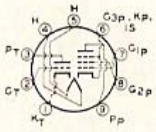

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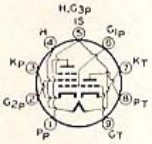

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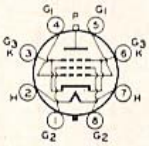

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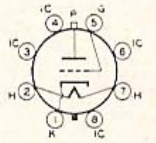

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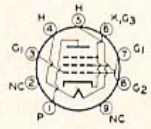

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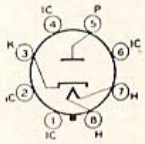

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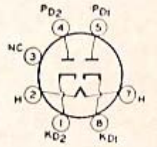


37

RCA KINESCOPE CHARACTERISTICS CHART

Type	Envelope	Faceplate	External Conductive Coating Max. μμf	External Conductive Coating Min. μμf	Focusing Method	Deflection Method	Ion-Trap Magnet	Approx. Deflection Angle Degrees	Maximum Dimensions Inches: Overall Length	Envelope Diameter	Width	Height	Neck Length Inches
Black-and-White Types													
3KP4	Glass Round	Clear	None	None	E	E⊙	None	None	11¾	3 1/16	—	—	—
5TP4"	Glass Round	Clear‡	500	100	E	M	None	50	12⅛	5⅛	—	—	7½
7DP4	Glass Round	Clear	1500	400	E	M	Single	50	14 7/16	7 5/16	—	—	8⅛
7JP4	Glass Round	Clear	None	None	E	E⊙	None	None	14⅞	7⅛	—	—	—
9AP4	Glass Round	Clear	None	None	E	M	None	40	21⅜	9⅛	—	—	10
10BP4	Same as 10BP4-A, except has clear glass faceplate.												
10BP4-A	Glass Round	Filterglass	2500	500	M	M	Single	52	18	10⅝	—	—	8 3/16
10FP4-A	Glass Round	Filterglass‡	2500	500	M	M	None	50	18	10⅝	—	—	8 3/16
12AP4	Glass Round	Clear	None	None	E	M	None	40	25⅜	12 3/16	—	—	9 9/16
12KP4-A	Glass Round	Filterglass‡	2500	500	M	M	None	54	18	12 9/16	—	—	7⅛
12LP4	Same as 12LP4-A, except has clear glass faceplate.												
12LP4-A	Glass Round	Filterglass	2500	750	M	M	Single	57	19⅛	12 9/16	—	—	8¼
14EP4/ 14CP4	Glass Rectangular	Filterglass	2000	750	M	M	Single	65	16⅞	13 13/16	12 21/32	9 27/32	7 5/16
14HP4	Glass Rectangular	Filterglass	2000	750	E	M	Single	65	17 5/32	13 13/16	12 21/32	9 27/32	7½
16AP4	Same as 16AP4-A, except has clear glass faceplate.												
16AP4-A	Metal Round	Filterglass	None	None	M	M	Single	53	22 5/16	16	—	—	7 9/16
16DP4-A	Glass Round	Filterglass	None	None	M	M	Single	60	21	16	—	—	7⅞
16GP4	Same as 16GP4-B, except has Filterglass faceplate.												
16GP4-A	Same as 16GP4-B, except has clear glass faceplate.												
16GP4-B	Metal Round	Frosted Filterglass	None	None	M	M	Single	70	17 11/16	16	—	—	6⅞
16GP4-C	Same as 16GP4-B, except has frosted clear glass faceplate.												

Data for these types continued on next page.

Data for these types continued from preceding pages.

Minimum Screen Size Inches	High-Voltage Terminal	Basing	Maximum Ratings: Final High-Voltage Electrode (ULTOR*) Volts	Focusing Electrode Volts	Grid-No. 2 Volts	Grid-No. 1 Bias Volts §	Typical Operating Conditions: Final High-Voltage Electrode (ULTOR*) Volts	Focusing Electrode Volts	Grid-No. 2 Volts	Grid-No. 1 Volts #	Type
											Black-and-White Types
2¾ Diam.	Base Pin	A	2500	1000	∞	200	2000	320 to 600	∞	−38 to −90	**3KP4**
4¼ 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	∞	200	6000	1620 to 2400	∞	−72 to −168	**7JP4**
7⅞ 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.											10BP4
9⅛ Diam.	Small Cavity Cap	E	12000	—	410	125	8000 to 12000	—	250	−27 to −63	**10BP4-A**
9⅛ Diam.	Small Cavity Cap	E	12000	—	410	125	8000 to 12000	—	250	−27 to −63	**10FP4-A**
10¾ Diam.	Medium Cap	D	7000	2000	300	125	7000	1190 to 1790	250	−20 to −60	12AP4
11⅛ 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.											12LP4
11 Diam.	Small Cavity Cap	E	12000	—	410	125	9000 to 12000	—	250	−27 to −63	**12LP4-A**
11⅛ x 8 5/16	Small Cavity Cap	E	14000	—	410	125	10000 to 14000	—	300	−33 to −77	**14EP4/ 14CP4**
11⅜ x 8½	Small Cavity Cap	H	14000	+500 −500	500	125	12000 14000	−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.											16AP4
14⅜ Diam.	Metal-Shell Lip	F	14000	—	410	125	9000 to 14000	—	300	−33 to −77	**16AP4-A**
14½ 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.											16GP4
Ratings and typical operating conditions are same as for type 16GP4-B.											16GP4-A
14⅜ 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-B.											16GP4-C

Type	Envelope	Faceplate◊	External Conductive Coating Max. μμf	External Conductive Coating Min. μμf	Focusing Method	Deflection Method	Ion-Trap Magnet	Approx. Deflection Angle♦ Degrees	Maximum Dimensions Inches: Overall Length	Maximum Dimensions Inches: Envelope Diameter	Maximum Dimensions Inches: Width	Maximum Dimensions Inches: Height	Neck Length Inches
Black-and-White Types													
16LP4-A	Glass Round	Filterglass	2000	750	M	M	Single	52	22 5/8	16	—	—	7 3/8
16RP4/16KP4	Glass Rectangular	Filterglass	2000	750	M	M	Single	65	19 1/8	16 5/16	14 15/16	11 11/16	7 1/2
16RP4-A/16KP4-A	Same as 16RP4/16KP4, except has aluminized screen.												
16TP4	Glass Rectangular	Filterglass	2000	750	M	M	Single	65	18 1/2	16 5/16	14 15/16	11 11/16	6 7/8
16WP4-A	Glass Round	Filterglass	1500	750	M	M	Single	70	18 1/8	16	—	—	7 7/16
17AVP4	Glass Rectangular	Filterglass	1500	750	E	M	Single	85•	16	16 25/32	15 51/64	12 3/8	6 1/2
17BP4-A	Glass Rectangular	Filterglass	1500	750	M	M	Single	65	19 9/16	16 23/64	15 33/64	12 7/16	7 1/2
17BP4-B	Same as 17BP4-A, except has aluminized screen.												
17CP4	Metal Rectangular	Frosted Filterglass	None	None	M	M	Single	66	19	17	16 1/16	12 3/8	7 5/16
17CP4-A	Same as 17CP4, except has Filterglass faceplate.												
17GP4	Metal Rectangular	Frosted Filterglass	None	None	E	M	Single	66	19 5/16	17	16 1/16	12 3/8	7 1/2
17HP4/17RP4	Glass Rectangular	Filterglass	1500	750	E	M	Single	65	19 9/16	16 3/4	15 1/2	12 7/16	7 1/2
17HP4-B	Glass Rectangular	Filterglass‡	1500	750	E	M	Single	65	19 9/16	16 3/4	15 1/2	12 7/16	7 1/2
17JP4	Glass Rectangular	Filterglass	750	500	M	M	Single	65	19 9/16	16 3/4	15 1/2	12 7/16	7 1/2
17LP4/17VP4	Glass Rectangular	Filterglass▲▲	1500	750	E	M	Single	65	19 9/16	16 3/4	15 1/2	12 7/16	7 1/2
17LP4-A	Glass Rectangular	Filterglass‡▲▲	1500	750	E	M	Single	65	19 9/16	16 3/4	15 1/2	12 7/16	7 1/2
17QP4	Glass Rectangular	Filterglass▲▲	1500	750	M	M	Single	65	19 9/16	16 3/4	15 1/2	12 7/16	7 1/2
17TP4	Metal Rectangular	Frosted Filterglass	None	None	E	M	Single	66	19 5/16	17	16 1/16	12 3/8	7 1/2

Data for these types continued on next page.

Minimum Screen Size Inches	High-Voltage Terminal	Basing	Maximum Ratings: Final High-Voltage Electrode (ULTOR*) Volts	Maximum Ratings: Focusing Electrode Volts	Maximum Ratings: Grid-No. 2 Volts	Maximum Ratings: Grid-No. 1 Bias Volts §	Typical Operating Conditions: Final High-Voltage Electrode (ULTOR*) Volts	Typical Operating Conditions: Focusing Electrode Volts	Typical Operating Conditions: Grid-No. 2 Volts	Typical Operating Conditions: Grid-No. 1 Volts #	Type
											Black-and-White Types
14 1/2 Diam.	Small Cavity Cap	E	14000	—	410	125	12000 to 14000	—	300	−33 to −77	**16LP4-A**
13 1/2 x 10 1/8	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.											**16RP4-A/16KP4-A**
13 1/2 x 10 1/8	Small Cavity Cap	E	14000	—	410	125	12000 to 14000	—	300	−33 to −77	**16TP4**
14 1/2 Diam.	Small Cavity Cap	E	16000	—	410	125	12000 to 16000	—	250	−27 to −63	**16WP4-A**
14 1/4 x 10 3/4	Small Cavity Cap	H	16000	+1000 −500▲	500	125	14000 16000	−55 to +310 −65 to +350	300 300	−33 to −77 −33 to −77	**17AVP4**
14 1/4 x 10 3/4	Small Cavity Cap	E	16000	—	410	125	12000 to 16000	—	300	−33 to −77	**17BP4-A**
Ratings and typical operating conditions are same as for type 17BP4-A.											**17BP4-B**
14 3/8 x 10 11/16	Metal-Shell Lip	F	16000	—	410	125	12000 to 16000	—	300	−33 to −77	**17CP4**
Ratings and typical operating conditions are same as for type 17CP4.											17CP4-A
14 3/8 x 10 11/16	Metal-Shell Lip	G	16000	5000	500	125	12000 14000	2040 to 2760 2380 to 3220	300 300	−33 to −77 −33 to −77	**17GP4**
14 1/4 x 10 3/4	Small Cavity Cap	H	16000	+1000 −500▲	500	125	14000 16000	−55 to +300 −65 to +350	300 300	−33 to −77 −33 to −77	**17HP4/17RP4**
14 1/4 x 10 3/4	Small Cavity Cap	H	16000	+1000 −500▲	500	125	14000 16000	−55 to +300 −65 to +350	300 300	−33 to −77 −33 to −77	**17HP4-B**
14 1/4 x 10 3/4	Small Cavity Cap	E	18000	—	410	125	14000 to 18000	—	300	−33 to −77	**17JP4**
14 1/4 x 10 3/4	Small Cavity Cap	H	16000	+1000 −500▲	500	125	14000 16000	−55 to +300 −65 to +350	300 300	−33 to −77 −33 to −77	**17LP4/17VP4**
14 1/4 x 10 3/4	Small Cavity Cap	H	16000	+1000 −500▲	500	125	14000 16000	−55 to +300 −65 to +350	300 300	−33 to −77 −33 to −77	**17LP4-A**
14 1/4 x 10 3/4	Small Cavity Cap	J	16000	—	410	125	12000 to 16000	—	300	−33 to −77	**17QP4**
14 3/8 x 10 11/16	Metal-Shell Lip	G	16000	+1000 −500▲	500	125	14000 16000	−55 to +300 −65 to +350	300 300	−33 to −77 −33 to −77	**17TP4**

Data for these types continued from preceding pages.

Type	Envelope	Faceplate	External Conductive Coating Max.	External Conductive Coating Min.	Focusing Method	Deflection Method	Ion-Trap Magnet	Approx. Deflection Angle Degrees	Maximum Dimensions Inches: Overall Length	Envelope Diameter	Width	Height	Neck Length Inches
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 5/8	—	—	7 1/8
19AP4-D	Same as 19AP4-B, except has frosted clear glass faceplate.												
20CP4	Glass Rectangular	Filterglass	None	None	M	M	Single	66	21 13/16	20 9/32	18 7/8	15 1/8	7 3/16
20DP4-A/ 20CP4-A	Glass Rectangular	Filterglass	750	500	M	M	Single	66	21 13/16	20 9/32	18 7/8	15 1/8	7 5/16
20DP4-C/ 20CP4-D	Glass Rectangular	Filterglass‡	750	500	M	M	Single	66	21 13/16	20 9/32	18 7/8	15 1/8	7 3/16
20MP4	Glass Rectangular	Filterglass	750	500	E	M	Single	66	22 1/8	20 9/32	18 7/8	15 1/8	7 1/2
21ACP4-A	Glass Rectangular	Filterglass‡▲▲	750	500	M	M	Single	85•	20 3/8	21 1/2	20 3/8	16 1/2	7 1/2
21ALP4-A	Glass Rectangular	Filterglass‡	750	500	E	M	Single	85•	20 3/8	21 1/2	20 3/8	16 1/2	7 1/2
21ALP4-B	Glass Rectangular	Filterglass‡	750	500	E	M	Single	85•	20 3/8	21 1/2	20 3/8	16 1/2	7 1/2
21AMP4-A	Glass Rectangular	Filterglass‡	750	500	M	M	Single	85•	20 3/8	21 1/2	20 3/8	16 1/2	7 1/2
21AP4	Metal Rectangular	Frosted Filterglass	None	None	M	M	Single	66	22 5/8	21	19 27/32	15 7/16	7 1/2
21ATP4	Glass Rectangular	Filterglass‡	1500	1200	E	M	Single	85•	20 3/8	21 1/2	20 3/8	16 1/2	7 1/2
21AVP4/ 21AUP4	Glass Rectangular	Filterglass	1500	1200	E	M	Single	67■■	23 13/32	21 1/2	20 3/8	16 1/2	7 1/2
21AVP4-A/ 21AUP4-A	Glass Rectangular	Filterglass‡	1500	1200	E	M	Single	67■■	23 13/32	21 1/2	20 3/8	16 1/2	7 1/2
21AWP4	Glass Rectangular	Filterglass‡	1500	1200	M	M	Single	67■■	23 13/32	21 1/2	20 3/8	16 1/2	7 1/2
21EP4	Same as 21EP4-A, except has no external conductive coating.												
21EP4-A	Glass Rectangular	Filterglass▲▲	750	500	M	M	Single	65	23 3/8	21 13/32	20 7/16	15 3/4	7 1/2
21EP4-B	Same as 21EP4-A, except has aluminized screen.												

Data for these types continued on next page.

Minimum Screen Size Inches	High-Voltage Terminal	Basing	Maximum Ratings: Final High-Voltage Electrode (ULTOR*) Volts	Focusing Electrode Volts	Grid-No. 2 Volts	Grid-No. 1 Bias Volts §	Typical Operating Conditions: Final High-Voltage Electrode (ULTOR*) Volts	Focusing Electrode Volts	Grid-No. 2 Volts	Grid-No. 1 Volts ≠	Type
											Black-and-White Types
Ratings and typical operating conditions are same as for type 19AP4-B.											19AP4
Ratings and typical operating conditions are same as for type 19AP4-B.											19AP4-A
17 1/4 Diam.	Metal-Shell Lip	F	16000	—	410	125	12000 to 19000	—	300	−33 to −77	**19AP4-B**
Ratings and typical operating conditions are same as for type 19AP4-B.											19AP4-D
17 x 12 3/4	Small Cavity Cap	F	18000	—	410	125	14000 to 18000	—	300	−33 to −77	**20CP4**
17 x 12 3/4	Small Cavity Cap	F	18000	—	410	125	14000 to 18000	—	300	−33 to −77	**20DP4-A/ 20CP4-A**
17 x 12 3/4	Small Cavity Cap	F	18000	—	410	125	14000 to 18000	—	300	−33 to −77	**20DP4-C/ 20CP4-D**
17 x 12 3/4	Small Cavity Cap	H	16000	+1000 −500▲	500	125	14000 16000	−55 to +300 −65 to +350	300 300	−33 to −77 −33 to −77	**20MP4**
19 1/8 x 15	Small Cavity Cap	E	20000	—	500	125	13000 to 19000	—	300	−28 to −72	**21ACP4-A**
19 1/8 x 15	Small Cavity Cap	H	18000	+1000 −500▲	500	125	16000 18000	−65 to +350 −75 to +400	300 400	−33 to −77 −42 to −101	**21ALP4-A**
19 1/8 x 15	Small Cavity Cap	H	20000	+1000 −500▲	500	125	16000 18000	−65 to +350 −75 to +400	300 400	−33 to −77 −42 to −101	**21ALP4-B**
19 1/8 x 15	Small Cavity Cap	F	18000	—	500	125	14000 to 18000	—	300	−33 to −77	**21AMP4-A**
18 1/8 x 13 11/16	Metal-Shell Lip	F	18000	—	410	125	14000 to 18000	—	300	−33 to −77	**21AP4**
Ratings and typical operating conditions are same as for type 21ALP4-A											**21ATP4**
19 1/8 x 15	Small Cavity Cap	H	18000	1000 −500▲	500	125	14000 18000	−55 to +300 −72 to +396	300 300	−28 to −72 −28 to −72	**21AVP4/ 21AUP4**
19 1/8 x 15	Small Cavity Cap	H	18000	1000 −500▲	500	125	14000 18000	−55 to +300 −75 to +400	300 400	−33 to −77 −42 to −101	**21AVP4-A/ 21AUP4-A**
19 1/8 x 15	Small Cavity Cap	F	18000	—	500	125	14000 to 18000	—	300	−33 to −77	**21AWP4**
Ratings and typical operating conditions are same as for type 21EP4-A.♦											21EP4
19 1/8 x 13 7/8	Small Cavity Cap	J	18000	—	500	125	14000 to 18000	—	300	−33 to −77	**21EP4-A**
Ratings and typical operating conditions are same as for type 21EP4-A.											**21EP4-B**

Data for these types continued from preceding pages.

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

E = Electrostatic. M = Magnetic.
Note: All kinescopes shown have 6.3-volt/0.6-ampere heaters except types 9AP4 and 12AP4 which have 2.5-volt/2.1-ampere heaters.
Light face = Discontinued type.
♦ Sperical, unless otherwise specified.
★ At faceplate.

‡ Utilizes aluminized screen.
▲▲ Cylindrical faceplate.
∞ Grid-No. 2 connected to final high-voltage electrode within tube.
▪ Projection type.
• Corresponding diagonal deflection angle is 90°.
† At ultor lip-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 condition where an ac voltage is provided for dynamic focusing.
▪▪ Diagonal deflection angle is 72°.

Data for these types continued on next page.

Minimum Screen Size Inches	High-Voltage Terminal	Basing	Maximum Ratings: Final High-Voltage Electrode (ULTOR*) Volts	Focusing Electrode Volts	Grid-No. 2 Volts	Grid-No. 1 Bias Volts §	Typical Operating Conditions: Final High-Voltage Electrode (ULTOR*) Volts	Focusing Electrode Volts	Grid-No. 2 Volts	Grid-No. 1 Volts #	RCA Type
Black-and-White Types											
19 1/8 x 13 7/8	Small Cavity Cap	H	18000	+1000 −500▲	500	125	14000 16000	−55 to +300 −65 to +350	300 300	−33 to −77 −33 to −77	21FP4-A
Ratings and typical operating conditions are same as for type 21FP4-A.											21FP4-C
18 3/8 x 13 11/16	Metal-Shell Lip	G	16000	+1000 −500▲	500	125	14000 16000	−55 to +300 −65 to +350	300 300	−33 to −77 −33 to −77	21MP4
19 1/8 x 14 3/16	Small Cavity Cap	H	18000	+1000 −500▲	500	125	16000 18000	−65 to +350 −70 to +395	300 300	−28 to −72 −28 to −72	21YP4
Ratings and typical operating conditions are the same as for type 21YP4.											21YP4-A
19 1/8 x 14 3/16	Small Cavity Cap	J	18000	—	500	125	16000 to 18000	—	300	−28 to −72	21ZP4-A
Ratings and typical operating conditions are the same as for type 21ZP4-A.											21ZP4-B
21 1/4 x 16 3/4	Small Cavity Cap	J	20000	—	500	125	16000 to 18000	—	300	−28 to −72	24CP4-A
21 1/4 x 16 3/4	Small Cavity Cap	H	20000	+1500 −500▲	500	125	16000 18000	−65 to +350 −75 to +400	300 400	−33 to −77 −42 to −101	24DP4-A
Ratings and typical operating conditions are same as for type 24DP4-A.											24YP4
23 7/16 x 18 1/8	Metal-Shell Lip	F	18000	—	500	125	16000 to 18000	—	300	−33 to −77	27MP4
Color Types											
11 1/2 x 8 5/8	Metal Flange	K	20000	5000	500▲	200▲	For additional data, refer to technical bulletin available on request.				15GP22
19 5/16 x 15 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.
# For visual extinction 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.

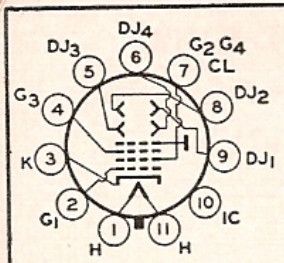
⊙ Deflection Factors (volts dc/in.) for typical operating conditions shown:

Type	DJ_1 & DJ_2 (nearer screen)	DJ_1 & DJ_2 (nearer base)
3KP4	100 to 136	76 to 104
7JP4	186 to 246	150 to 204

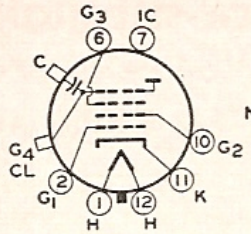
▲ Each gun.

* ULTOR is defined as the electrode, or the electrode in combination with one or more additional electrodes connected within the tube to it, to which is applied the highest dc voltage for accelerating the electrons in the beam prior to its deflection.

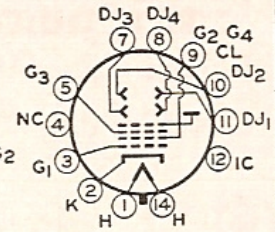
Data for these types continued from preceding pages.



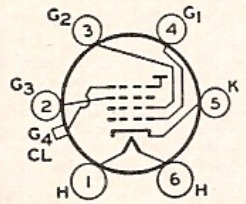
A
ULTOR = $G_2 + G_4 + CL$
FOCUSING ELECTRODE = G_3



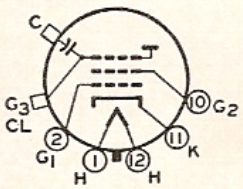
B
ULTOR = $G_4 + CL$
FOCUSING ELECTRODE = G_3



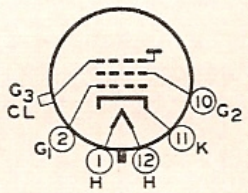
C
ULTOR = $G_2 + G_4 + CL$
FOCUSING ELECTRODE = G_3



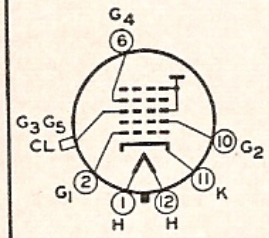
D
ULTOR = $G_4 + CL$
FOCUSING ELECTRODE = G_3



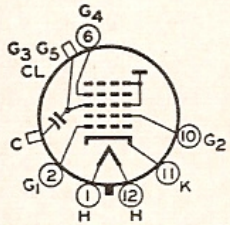
E
ULTOR = $G_3 + CL$



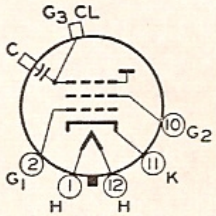
F
ULTOR = $G_3 + CL$



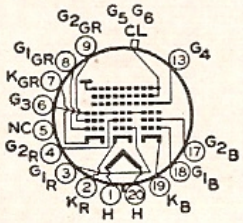
G
ULTOR = $G_3 + G_5 + CL$
FOCUSING ELECTRODE = G_4



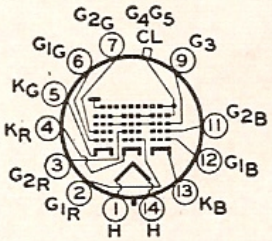
H
ULTOR = $G_3 + G_5 + CL$
FOCUSING ELECTRODE = G_4



J
ULTOR = $G_3 + CL$



K
ULTOR = $G_5 + G_6 + CL$
FOCUSING ELECTRODE = G_3



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

RCA QUICK-SELECTION GUIDE

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

VACUUM POWER TUBES

TYPE	CATHODE VOLTS	MAXIMUM DIMENSIONS INCHES Length	Diam.	AMPLIFICATION FACTOR	MAX. PLATE RATINGS• DC Volts	Dissipation Watts
TRIODES (AIR-COOLED)						
3C33	12.6	3 11/16	2 3/8	11b	±2000	15
10-Y	7.5	5 3/8	2 1/16	8	450	15
800	7.5	6 3/8	2 11/16	15	1250	35
801-A	7.5	5 3/8	2 1/16	8	600	20
805	10	8 1/2	2 5/16	variable	1500	125
806	5	10	3 13/16	12.6	3300†	225†
808	7.5	6 1/16	2 13/16	47	2000†	75†
809	6.3	6 9/16	2 7/16	50	1000†	30†
810	10	8 3/4	2 1/4*	36	2500†	175†
811-A	6.3	6 21/32	2 7/16	160	1500†	65†
812-A	6.3	6 21/32	2 7/16	29	1500†	65†
826	7.5	3 11/16	2 3/8	31	1000†	55†
830-B	10	6 11/16	2 1/16	25	1000	60
833-A	10	8 13/16	4 19/32	35	3300†	350†
834	7.5	6 7/8	2 11/16	10.5	1250	50†
838	10	7 7/8	2 5/16	variable	1250	100
841	7.5	5 3/8	2 1/16	30	450	15
842	7.5	5 3/8	2 1/16	3	425	12
845	10	7 7/8	2 5/16	5.3	1250	100
849	11	14 3/8	4 1/16	19	2500	400
851	11	17 5/8	6 1/8	20.5	2500	750
1623	6.3	6 9/16	2 7/16	20	1000†	30†
1626	12.6	4 1/8	1 9/16	5	250	5
5556	4.5	4 1/2	1 5/8	8.5	350	10
8000	10	8 3/4	2 1/4*	16.5	2500†	175†
8003	10	8 1/2	2 9/16	12	1350	100
8005	10	6 11/16	2 7/16	20	1500†	85†
8012-A	6.3	3 15/16	1 3/16*	18	1000	40
8025-A	6.3	4 15/16	1 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	CATHODE VOLTS	MAXIMUM DIMENSIONS INCHES Length	Diam.	AMPLIFICATION FACTOR	MAX. PLATE RATINGS• DC Volts	Dissipation Watts
TRIODES (WATER-COOLED)						
9C21	19.5	24½	9½	40	17000	40000
207	22	20¼	6½*	20	15000	10000
862-A	33	60⅜	10*	45	20000	100000
880	12.6	11⅜	7	20	10500	20000
889-A	11	10 11/16	3⅝	21	8500	5000
891	11#	20⅞	6½*	8.5	12000	6000
892	11#	20⅞	6½*	50	15000	10000
893-A	20#	26¾	6⅜*	34.5	20000	20000
898-A	33#	60⅜	10*	45	20000	100000
5770	11	24½	9½	41	17000	50000
5771	7.5	11 5/16	7	20	12500	22500
5831	6	38¾	9 17/32	30	16000	150000
6383	6.3	4 9/32	1¾	27	1500	600
TRIODES (FORCED-AIR-COOLED)						
2C39-A	6.3	2¾	1 17/64	100	1000	100
4C33	5	4⅞	2 1/16	25	13000‡	250‡
9C22	19.5	25	17	41	17000	20000
9C25	6	17⅜	14¼	32	11500	17500
833-A	10	8 13/16	4 19/32	35	4000	450
889R-A	11	11⅞	5½*	21	8500	5000
891-R	11#	22	6½*	8.5	10000	4000
892-R	11#	22	6½*	50	12500	4000
893A-R	20#	28	8 13/16*	34.5	20000	20000
5588	6.3	3 13/32	1¾	16	1000	200
5592	11	17⅜	14¼	32	11500	17500
5604-A	11	13¾	5½*	20	12500	10000
5671	11	25	16 15/16	39	15000	25000
5713	3.3	4⅞	2 1/16	25	1500	250
5762/7C24	12.6	7⅛	4 11/16	29	6200	3000
5786	11	9⅝	2 15/16	32	3000	600
5946	6.3	3 13/32	1¾	27	7500★	250
6161	6.3	3 13/32	1¾	27	1600	250
TETRODES (AIR-COOLED)						
4-65A	6	4⅜	2⅜	5§	3000	65
4-125A/4D21	5	5 11/16	2¾	5.9§	3000	125
860	10	8¾	4¼*	1100	3000	100
861	11	17 7/32	6⅝*	2400	3500	400
865	7.5	5¾	2 1/16	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	CATHODE VOLTS	MAXIMUM DIMENSIONS INCHES Length	Diam.	TRANSCONDUCTANCE Micromhos	MAX. PLATE RATINGS• DC Volts	Dissipation Watts
TETRODES (WATER-COOLED)						
8D21	3.2	12 9/32	5¾	5§b	6000	6000
TETRODES (FORCED-AIR-COOLED)						
4-250A/5D22	5	6⅜	3 9/16	4000	4000	250
4-1000A	7.5	9⅝	5¼	7§	6000	1000
4X150A	6	2 15/32	1⅝	5§	1250	150
4X500A	5	4⅜	2 9/16	6.2§	4000	500
827-R	7.5	6 3/16	4 21/32	16§	3500	800
6166	5	11⅝	6 13/32	10§	6600	10000
6181	120	7 7/16	5 1/32	8§	2000	2000
BEAM POWER TUBES AND PENTODES (AIR-COOLED)						
2E24	6.3	3 21/32	1 5/16	3200	700☆	18.5☆
2E26	6.3	3 21/32	1 5/16	3500	700☆	18.5☆
3E22	6.3/12.6	4 9/16	2⅜	4000	600☆	35☆
3E29— Similar to type 829-B but for pulsed operation.						
4E27/8001	5	6 3/16	2 11/16	2800	4000	75
4E27A/5-125B	5	6 3/16	2¾	2150	4000	125
802	6.3	5¾	2 1/16	2250	600†	13†
803	10	9¼	2 9/16	4000	2000	125
804	7.5	7 11/16	2 1/16	3250	1500†	50†
807	6.3	5¾	2 1/16	6000	750†	30†
813	10	7½	2 9/16	3750	2250†	125†
814	10	7 11/16	2 1/16	3300	1500†	65†
815	6.3/12.6	4 9/16	2⅜	4000	500†	25†
828	10	7 11/16	2 1/16	2700	1500†	80†
829-B	6.3/12.6	4 5/16	2⅜	8500	750†	45†
832-A	6.3/12.6	3 5/16	2⅜	3500	750†	15†
837	12.6	5¾	2 1/16	3400	500	12
1613	6.3	3¼	1 5/16	2500	350	10
1614	6.3	4 5/16	1⅝	6050	450†	25†
1619	2.5	4 5/16	1⅝	4500	400	15
1624	2.5	5¾	2 1/16	4000	600	25
1625	12.6	5¾	2 1/16	6000	750†	30†
5618	3.0/6.0	2⅝	¾	3600	300†	5†
5763	6	2⅝	⅞	7000	300	12
5894	6.3/12.6	4 5/16	1 15/16	8.2§	600	40
6146	6.3	3 13/16	1 23/32	4.5§	750†	25†
6159	Same as 6146 but has 26.5-volt heater					
6293	See Technical Bulletin					
6417	12.6	2⅝	⅞	Refer to 5763		
6524	6.3	3 9/16	1 13/16	4500	600	25
BEAM POWER TUBES AND PENTODES (WATER-COOLED)						
6448	1.35/2.70	7 23/32	11⅜	6§	7000	26000

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

GLOW-DISCHARGE (COLD-CATHODE) TUBES

TYPE	MAXIMUM DIMENSIONS INCHES Length	Diam.	OPERATING VOLTS	OPERATING CURRENT DC MA. Min.	Max.
VOLTAGE-REGULATOR TYPES					
OA2	2 5/8	3/4	151	5	30
OA3	4 1/8	1 9/16	75	5	40
OB2	2 5/8	3/4	108	5	30
OC3	4 1/8	1 9/16	108	5	40
OD3	4 1/8	1 9/16	153	5	40
991	1 9/16	5/8	59	0.4	2
5651*	2 1/8	3/4	87	1.5	3.5
6073	2 5/8	3/4	151	5	30
6074	2 5/8	3/4	108	5	30

TYPE	DIMENSIONS INCHES Length	Diam.	MAX. RATINGS Peak Anode Volts	Peak Cathode Ma.	Av. Cathode Ma.
RELAY TYPES					
OA4-G	4 1/8	1 9/16	225	100	25
1C21	2 5/8	1 5/16	180	100	25
5823	2 1/8	3/4	200	100	25

RECTIFIERS

TYPE	CATHODE VOLTS	MAXIMUM DIMENSIONS INCHES Length	Diam.	MAX. PLATE OR ANODE RATINGS Peak Inv. Volts	Amp. Av.
VACUUM TYPES					
2V3-G	2.5	4 15/32	1 9/16	16500	0.002
2X2-A	2.5	4 17/32	1 9/16	12500	0.0075
5R4-GY	5	5 5/16	2 1/16	2800	0.175
217-C	10	8 1/2	2 5/16	7500	0.150
579-B	2.5	7 7/16	2 1/16	20000	0.025
836	2.5	6 9/16	2 7/16	5000	0.25
878	2.5	7 5/8	1 13/16	20000	0.005
1616	2.5	6 13/16	2 1/16	6000	0.13
5825	1.6	5 27/32	2 1/16	60000	0.002
8013-A	2.5	6 1/16	2 1/16	40000	0.020
8020	5	8	2 5/16	40000	0.100
MERCURY-VAPOR TYPES					
575-A	5	11 1/16	3 13/16	15000	1.5
673	5	11 3/8	3 13/16	15000	1.5
816	2.5	4 11/16	1 9/16	7500	0.125
857-B	5	19 7/8	7 1/8	22000	10
866-A	2.5	6 9/16	2 7/16	10000	0.25
869-B	5	14 7/16	5 1/8	20000	2.5
872-A	5	8 1/2	2 5/16	10000	1.25
5558	5	7	3	5000	2.5
5561	5	11 1/4	3 13/16	3000	6.4
8008	5	8 3/4	2 5/16	10000	1.25

*Voltage-reference type.

RECTIFIERS (cont'd)

TYPE	CATHODE VOLTS	MAXIMUM DIMENSIONS INCHES Length	Diam.	MAX. PLATE OR ANODE RATINGS Peak Inv. Volts	Av. Amp.
GAS TYPES					
3B25	2.5	6 5/16	2 1/16	4500	0.5
3B28	2.5	6 3/8	2 1/16	10000	0.25

THYRATRONS

TYPE	CATHODE VOLTS	MAXIMUM DIMENSIONS INCHES Length	Diam.	MAX. PLATE OR ANODE RATINGS Peak Inv. Volts	Av. Amp.
TRIODES					
3C23	2.5	6 1/8	2 1/16	1250	1.5
627	2.5	7	2 7/16	2500	0.64
629	2.5	4 1/4	1 9/16	350	0.04
676	5	11 3/4	3 13/16	2500	6.4
677	5	11 3/4	3 13/16	10000	4.0
884	6.3	4 1/8	1 9/16	350	0.075
885	2.5	4 3/16	1 9/16	350	0.075
5557	2.5	6 5/8	2 7/16	5000	0.5
5559	5	7 1/4	3	1000	2.5
5563-A	5	10 17/32	2 7/8	15000	1.6
5728/FG-67	5	7	3	1000	2.5
6130/3C45•	6.3	5 3/16	1 9/16	3000	0.045
TETRODES					
2D21	6.3	2 1/8	3/4	1300	0.1
3D22-A	6.3	4 5/8	2 3/8	1500	0.8
105	5	11 1/4	2 13/16*	2500	6.4
172	5	10 3/4	2 5/8*	2000	6.4
502-A	6.3	2 5/8	1 5/16	1300	0.1
672-A	5	8 1/4	2 5/16	2500	3.2
2050	6.3	4 1/8	1 9/16	1300	0.1
5560	5	7 15/16	2 1/4*	1000	2.5
5696	6.3	1 3/4	3/4	500	0.025
6012	6.3	4 1/4	1 23/32	1300	0.5

IGNITRONS

TYPE	Size	MAX. DIMENSIONS INCHES Approx. Length	Radius	MAX. ANODE RATINGS†† KVA Demand	Corresponding Av. Anode Amp.	MAX. ANODE RATING*† Peak Inv. Volts	Av. Amp.
5550	(A)	10	1 3/8	300	12.1	.....	.....
5551	(B)	13 1/2	2 7/8	600	30.2	.....	.....
5552	(C)	14 1/2	3 5/8	1200	75.6	.....	.....
5553-A	(D)	20	4 11/16	2400	192.	.....	.....
5554		17 1/2	3 13/16	.....	.....	2100	75
5555		18 1/2	4 9/16	.....	.....	2100	150
5822		14 1/2	3 5/8	.....	.....	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 Length	Diam.	MAX. ANODE-SUPPLY VOLTS	LUMINOUS SENSITIVITY MICROAMP. PER LUMEN	SPECTRAL RESPONSE
GAS TYPES					
1P29	4 1/8	1 1/8	100	40	S-3
1P37	4 1/8	1 1/8	100	135	S-4
1P40	Same as 930 except for non-hygroscopic base.				
1P41	2 1/16	13/16	90	90	S-1
868	4 1/8	1 1/8	100	90	S-1
918	4 1/8	4 1/8	90	150	S-1
920¶	4	1 3/16	90	100	S-1
921	1 23/32	29/32	90	135	S-1
923	3 9/16	1 3/16	90	135	S-1
924	2 3/16	13/16	90	90	S-1
927	2 13/32	11/16	90	125	S-1
928	3 9/16	1 3/16	90	65	S-1
930	3 1/16	1 9/32	90	135	S-1
5581	3 1/16	1 9/32	100	135	S-4
5582	1 23/32	29/32	100	120	S-4
5583	2 13/32	11/16	100	135	S-4
5584¶	4	1 3/16	100	120	S-4
6405/1640	4 7/16	1 1/8	90	135	S-1
VACUUM TYPES					
1P39	Same as 929 except for non-hygroscopic base.				
1P42	1 13/32	1/4	180	37	S-9
917	4 7/16	1 1/8	500	20	S-1
919	4 7/16	1 1/8	500	20	S-1
922	1 23/32	29/32	500	20	S-1
925	2 5/8	1 9/32	250	20	S-1
926	1 23/32	29/32	500	6.5	S-3
929	3 1/16	1 9/32	250	45	S-4
934	2 13/32	11/16	250	30	S-4
935	4 1/4	1 9/32	250	35	S-5
5652*	2 7/8	1 9/32	250	45	S-4
5653	3 1/16	1 9/32	250	45	S-4
6570	4 7/16	1 1/8	500	30	S-1

MULTIPLIER PHOTOTUBES

TYPE	MAX. DIMENSIONS INCHES Length	Diam.	MAX. ANODE-SUPPLY VOLTS	LUMINOUS SENSITIVITY AMP/LUMEN	SPECTRAL RESPONSE
1P21	3 11/16	1 5/16	1250	80•	S-4
1P22	3 11/16	1 5/16	1250	0.6•	S-8
1P28	3 11/16	1 5/16	1250	50•	S-5
931-A	3 11/16	1 5/16	1250	24•	S-4
2020	5 13/16	2 1/4	1500	6••	S-11
5819	5 13/16	2 1/4	1250	25•	S-11
6199	4 9/16	1 9/16	1250	27•	S-11
6217	5 13/16	2 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 Length	Diam.	MAX. ANODE-SUPPLY VOLTS	LUMINOUS SENSITIVITY AMP/LUMEN	SPECTRAL RESPONSE
6323▶	3 11/16	1 5/16	1250	35•	S-4
6328▶	3 1/8	1 5/16	1250	35•	S-4
6342	5 13/16	2 1/4	1500	7.5••	S-11
6372	7 3/4	2 9/16	1200	20	S-11
6472▶	2 3/4°	1 3/16	1250	35•	S-4
6655	5 13/16	2 1/4	1250	25•	S-11

CATHODE-RAY TUBES‡

TYPE	MAX. OVER-ALL LENGTH Inches	MIN. SCREEN DIAM. Inches	MAX. FINAL ELECTRODE VOLTS	DEFLECTION FACTOR VOLTS DC/IN† DJ_1-DJ_2††	DJ_3-DJ_4*
OSCILLOGRAPH TYPES:					
Medium Persistence, Electrostatic Focus:					
2AP1-A	7 5/8	1 3/4	1000	184-276	157-235
2BP1	7 13/16	1 3/4	2500	115-155	74-100
3AP1-A	11 7/8	2 1/2	1500	61-91	59-89
3BP1-A	10 1/4	2 3/4	2000	80-120	59-89
3JP1⊡	10 1/4	2 3/4	4000	85-115	63-85
3KP1	11 3/4	2 3/4	2500	50-68	38-52
3MP1	8 1/4	2 3/4	2500	115-145	110-140
3RP1	9 3/8	2 3/4	2500	73-99	52-70
3RP1-A	Same as type 3RP1, except has flat face.				
5ABP1⊡	17 1/8	4 9/16	6000	27-36	18-24
5ABP4	Same as type 5ABP1, except for phosphor.				
5BP1-A	17 1/8	4 1/2	2000	35-49	32-45
5CP1-A⊡	17 1/8	4 1/2	4000	39-53	33-45
5UP1	15 1/8	4 1/2	2500	28-39	23-31
7CP1	13 13/16	6 1/2	8000	**	**
7VP1	14 7/8	6	4000	31-41	25-34
902-A	7 5/8	1 3/4	600	183-277	160-235
914-A	20 7/16	8 1/4	7000	38-54	30-44

‡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. †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.

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_1-DJ_2††	DJ_3-DJ_4*
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♦	10¼	2¾	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	11½	4¼	8000	Mag. focus & deflec.	
5UP7	Same as type 5UP1, except for phosphor.				
7BP7-A	13⅝	6	8000	Mag. focus & deflec.	
7MP7	13⅛	6	8000	Mag. focus & deflec.	
10KP7	18	9	10000	Mag. focus & deflec.	
12DP7-A	20⅛	10	10000	Mag. focus & deflec.	
12DP7-B	Same as 12DP7-A, but has filterglass faceplate.				
16ADP7	22	14⅜	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
FLYING-SPOT TYPES:					
5AUP24#	12⅞	4¼	27000	6000	50
5WP15	11 13/16	4¼	27000	6000	50
5ZP16	14¾	4¼	27000	7000	40
TRANSCRIBER KINESCOPE:					
5WP11	11 13/16	4¼	27000	6000	50
VIEW-FINDER KINESCOPES:					
5AYP4#	11 15/16	4¼	10000	1500	53
5FP4-A	11½	4¼	8000	§	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.

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
PROJECTION KINESCOPES (For Theater Television):					
7NP4■#	20⅛	5x3¾	80000	20000	35
7WP4▲#	20 1/16	5x3¾	80000	20000	35
MONITOR KINESCOPES:					
7CP4	13 13/16	6½	8000	2400	57
7QP4	13¼	6	10000	§	52
7TP4#	13½	6	12000	2000	50
10SP4#	17	9⅛	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

ICONOSCOPES:

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.

6474/1854 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.

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

"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. Filment 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.

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.

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. Max. 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.

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.

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 7060 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.

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±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, 2N104, 2N105 — 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.

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, 1N55-A, 1N58-A — Large-signal types having high peak inverse voltage ratings. They are especially useful in electronic computors, clamping, circuits, dc restorer circuits, and in high voltage probes.

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.

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.

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	2AP1-A	WE-261A	835
WT-210-0053	3AP1-A	WT-262	866-A
WT-210-0056	5559	WT-263	6Z4
WT-210-0057	5560	WT-269	0C3
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

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	838
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-P1	3AP1-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-P1	5BP1-A

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-P1	7CP1	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	5BP1-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	2AP1-A
WTT-112	5560	WTT-137	3AP1-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 ID-1020) listing 1600 industrial tube type numbers used by 24 manufacturers.

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

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	F123A	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

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

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	3AP1-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

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 A	Volts B	Replaces Eve-ready	Replaces Burgess	• NEDA Type No.	Max. Overall Dimensions L	Max. Overall Dimensions W. or Dia.	Max. Overall Dimensions Ht.
(For socket and terminal information see pages 97 and 98)								
PORTABLE "A" TYPES								
VS002	4½	—	746	G3	7	4	1⅜	4 11/16
VS004	1½	—	742	4F	4	2⅝	2⅝	4 1/16
VS005	1½	—	—	4FL	12	3 13/16	1⅜	5⅝
VS009	6	—	744	F4PI	6	2⅝	2⅝	4¼
VS010	6	—	718	2F4	1	3⅞	2 13/16	5½
VS011	6	—	747	2F4L	16	3⅞	1 7/16	10¾
VS035	1½	—	935	1	14	—	1	1 13/16
VS036	1½	—	950	2R	13	—	1 5/16	2⅜
VS065	7½	—	717	C5	9	2 5/16	2	3 1/16
VS067	4½	—	736	F3	3	4	1⅜	4⅛
VS068	6	—	724	Z4	2	1 3/16	1 3/16	2⅜
VS069	1½	—	720	2D	18	2 9/16	1 9/16	2⅞
VS070	1½	—	960P	8R	23	—	1 5/16	4 1/16
VS072	4½	—	726	D3	19	3 13/16	1 5/16	2 13/16
VS129	7½	—	713	B5	8	4 1/16	15/16	3
VS141	1½	—	W353	2F	11	2 9/16	1 5/16	4¼
VS236	1½	—	964	21R	20	—	1⅜	4 3/16
PORTABLE "B" TYPES								
VS012	—	45	484	B30	207	4⅛	2⅝	5 5/16
VS013	—	45	482	M30	202	3 9/16	1 13/16	5½
VS014	—	45	W359	A30	206	3 7/16	2¼	4 9/16
VS015	—	22½, 45	738	Z30	205	3	2¼	4
VS016	—	67½	467	XX45	200	2¾	1⅜	3¾
VS055	—	45	455	XX30	201	2 11/16	1	3 11/16
VS082	—	67½	457	K45	203	2 11/16	1⅛	2 7/16
VS086	—	45	415	U30	213	1 1/16	9/16	3 9/16
VS090	—	90	490	N60	204	3 11/16	1⅜	3¾
VS215	—	67½	—	P45M	211M	1 15/16	1	5 7/16
VS216	—	67½	—	P45M	211M	1 15/16	1 1/32	5 9/16
VS217	—	75	437	XX50	212	1 13/16	1⅜	6¼
VS218	—	67½	477	P45	211P	1 15/16	1	5 7/16
VS219	—	90	479	P60	214	1 31/32	1 1/32	7 15/32

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RCA RADIO BATTERIES

PORTABLE "A-B" PACKS

RCA Type	Volts A	Volts B	Replaces Eve-ready	Replaces Burgess	• NEDA Type No.	Max. Overall Dimensions L	Max. Overall Dimensions W. or Dia.	Max. Overall Dimensions Ht.
VS019	7½, 9	90	753	F6A60	401	9 3/16	2¾	4⅜
VS038	7½	63	W367	G5A42	408	8⅝	2¾	4 1/16
VS043	1½	90	—	5DA60	409	5½	2 11/16	7⅛
VS046	6	75	—	G4B50	422	12⅝	2¾	4⅛
VS047	9	90	752	G6B60	400	13⅝	2¾	4 9/16
VS050	6, 7½	75	755	T5Z50	403	8 9/16	2 7/16	3 11/16
VS052	1½	61½	—	4GA41	423	9⅜	2 11/16	3 7/16
VS053	1½	63	W366	4GA42	407	9⅛	2	4¾
VS054	1½	90	W369	6TA60	410	10	2 5/16	4 13/16
VS057W	7½, 9	90	756	T6Z60	405	8 11/16	2 3/16	3¾
VS058	9	90	757	F6A60P	406	9½	2¾	4⅜
VS059	9	90	756P	T6Z60P	428	8 11/16	2 3/16	3¾
VS060	7½	75	—	T5Z50P	431	8 9/16	2 7/16	3 11/16
VS064	1½	90	729	4TZ60	425	7¾	2 3/16	3⅝

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RCA Type	Volts A	Volts B	Volts C	Replaces Eve-ready	Replaces Burgess	• NEDA Type No.	Max. Overall Dimensions L	Max. Overall Dimensions W. or Dia.	Max. Overall Dimensions Ht.
FARM "A-B" AND "B" TYPES									
VS022	1½	90	—	759	17GD60	413	15¾	4¼	6 13/16
VS026	—	22½, 45	—	W365P	2308PI	717	8 1/16	3 7/16	7 3/16
VS045	1½	90	—	—	18GD60	426	12 9/16	5⅜	6 13/16
VS119	7½, 9	90	—	—	—	415	8¼	4½	13⅞
FLASHLIGHT AND LANTERN TYPES									
VS034	1½	—	—	915	Z	15	—	9/16	2
VS035	1½	—	—	935	1	14	—	1	1 13/16
VS036	1½	—	—	950	2	13	—	1 5/16	2⅜
VS040C	6	—	—	510F	F4H	908	2 11/16	2 11/16	4 5/16
VS040S	6	—	—	510S	F4BP	915	2 11/16	2 11/16	4 3/16
VS073	1½	—	—	—	N	910	—	7/16	1 3/16
VS074	1½	—	—	912	7	24	—	7/16	14 9/64
VS138	3	—	—	W357	4F2H	901	3⅞	2 11/16	5⅞

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

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RCA RADIO BATTERIES

INDUSTRIAL AND SPECIAL-PURPOSE BATTERIES

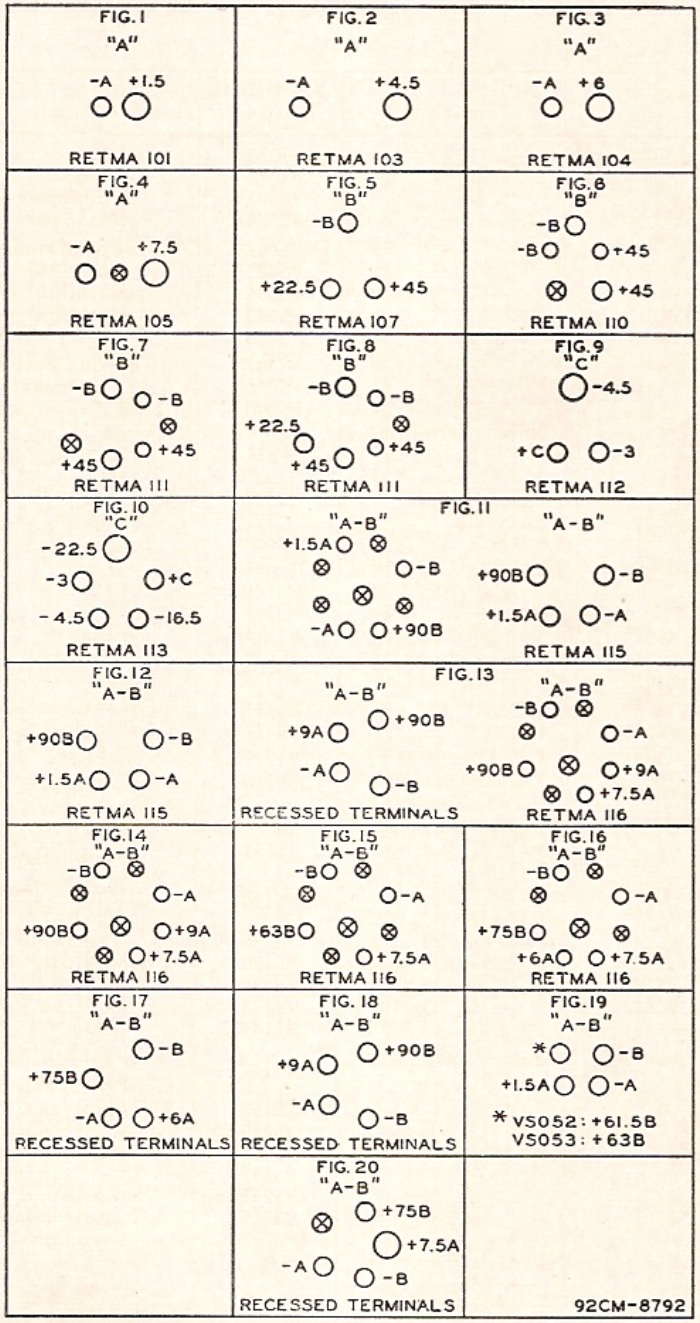
RCA Type	Volts A	Volts B	Volts C	Replaces Eve-ready	Replaces Burgess	• NEDA Type No.	Max. Overall Dimensions L	Max. Overall Dimensions W. or Dia.	Max. Overall Dimensions Ht.
VS006C	1½	—	—	61GN	61GN	914	—	2⅝	6⅝
VS006S	1½	—	—	61GN	61GN	905	—	2⅝	6 9/16
VS028	—	—	4½	781	5360	714	2⅜	13/16	2⅞
VS029	—	—	7½⊡	773	5540	713	3⅞	13/16	2 15/16
VS030	—	—	3, 4½	771	2370PI	718	3 15/16	1⅜	2⅞
VS031	—	—	22½ ♦	768	5156PI	721	4	2½	3
VS039	6	—	—	1461	S461	907	10⅜	2⅞	7⅜
VS040S	6	—	—	510S	F4BP	915	2 11/16	2 11/16	4 3/16
VS083	—	15	—	411	U10	208	1 1/32	⅝	1 7/16
VS084	—	22½	—	412	U15	215	1 1/32	⅝	2
VS085	—	30	—	413	U20	210	1 1/32	⅝	2 9/16
VS087	per cell: 1.4 volts			—	—	759	—	.491	.220
	per stack: 21 volts						—	17/32	3⅜
VS088	per cell: 1.4 volts			—	—	760	—	.887	.226
	per stack: 21 volts						—	13/16	3 7/16
VS093	—	300	—	493	U200	722	2⅝	2 3/16	3 13/16
VS100	3	—	—	W352	F2BP	701	2⅝	1⅜	4 9/16
VS101	1½	—	—	W354	2FBP	700	2⅝	1⅜	4 9/16
VS102	—	22½	—	763	4156	710	3⅜	2⅛	2¾
VS103	6	—	—	706	4F4H	902	8 5/16	2 13/16	6 3/16
VS106	1½	—	—	735	4FH	900	2 11/16	2 11/16	4 3/16
VS112	—	22½, 45	—	W376	5308	709	4⅛	2⅝	5 7/16
VS114	—	22½, 45	—	W350	Z30NX	711	3	1⅞	4 13/16
VS126	—	22½, 45	—	W365F	2308SC	723	8⅛	3¼	7 9/16
VS127	—	22½, 45	—	W363F	10308SC	716	8	4	7⅜
VS127W▸	—	22½, 45	—	—	10308SC	724	8	4	7⅜
VS130	—	—	4½••	761T	2370ST	712	3 15/16	1⅜	3
VS131	—	—	22½§	778	5156SC	708	4⅛	2½	3 5/16
VS133	4½	—	—	703	532	706	2⅜	13/16	2⅞
VS134	3	—	—	750	422	704	1 7/16	¾	2 9/16
VS136	3	—	—	W356	2F2H	703	2 11/16	2 11/16	4 3/16
VS138	3	—	—	W357	4F2H	901	3⅞	2 11/16	5⅞
VS139	7½	—	—	715	4F5H	903	7¼	4	6 5/16
VS140	9	—	—	716	4F6H	904	8½	4 1/16	6 7/16
VS142	4½	—	—	751	432	705	2	¾	2⅝
VS157	—	22½, 45	—	W364F	21308SC	715	8⅛	4⅝	7 11/16

• National Electronic Distributors Association. ▸ Wax coated.
⊡ Other voltage taps: 1½, 3, 4½, 6. ♦ Other voltage taps: 3, 4½, 16½.
•• Other voltage taps: 1½, 3. § Other voltage taps: 3, 4½, 6, 9, 10½, 16½.

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	VS095	Flashlight
VS012	Fig. 7	VS086	2 Snap Terminals
VS013	Fig. 6	VS087	Top and Bottom Surfaces
VS014	Fig. 7	VS088	
VS015	Fig. 8	VS090	2 Snap Terminals
VS016	2 Snap Terminals	VS093	2 Flush-Pin Jack-Terminals
VS019	Fig. 14		
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
		VS106	2 Screw
VS030	Fig. 9	VS112	3 Screw
VS031	Fig. 10	VS114	3 Screw
VS034	Flashlight	VS119	Fig. 13
VS035	Flashlight	VS126	3 Fahnestock Clips
VS036	Flashlight	VS127	3 Fahnestock Clips
VS038	Fig. 15	VS127W	3 Fahnestock Clips
VS039	2 Screw Terminals	VS129	Fig. 4
VS040C	2 Coil-Spring Terminals	VS130	4 Screw
		VS131	8 Fahnestock Clips
VS040S	2 Screw Terminals	VS133	2 Flat-Spring Terminals
VS043	Fig. 12		
VS045	Fig. 11	VS134	2 Flat-Spring Terminals
VS046	Fig. 17		
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



RCA BATTERY REPLACEMENT GUIDE

For 1948 to 1955 Portable Radios

Make and Model	RCA Battery A	AB	B
Admiral			
L76P5	1-VS005		2-VS014
N28-G5	2-VS036		1-VS016
4B21	1-VS065		1-VS216
4B22	1-VS065		1-VS216
4B24	1-VS065		1-VS216
4B28	1-VS065		1-VS216
4B29	1-VS065		1-VS216
4D11	2-VS036		1-VS016
4D12	2-VS036		1-VS016
4D13	2-VS036		1-VS016
4R1	1-VS065		1-VS016
4R11	1-VS065		1-VS016
4R12	1-VS065		1-VS016
4T1	1-VS065		1-VS016
4T11	1-VS065		1-VS016
4V12	1-VS065		1-VS016
4V16	1-VS065		1-VS016
4V18	1-VS065		1-VS016
4W1	1-VS065		1-VS016
4W18	1-VS065		1-VS016
4W19	1-VS065		1-VS016
4X1	2-VS236		1-VS216
4Y12	1-VS065		1-VS016
4Y18	1-VS065		1-VS016
4Y19	1-VS065		1-VS016
4X11	2-VS236		1-VS216
4Z1	1-VS065		1-VS016
4Z12	1-VS065		1-VS016
4Z14	1-VS065		1-VS016
4Z18	1-VS065		1-VS016
4Z19	1-VS065		1-VS016
5F11	1-VS065		1-VS016
5F12	1-VS065		1-VS016
5H1		1-VS019	
5K32		1-VS057W	
5K34		1-VS057W	
5K38		1-VS057W	
5K39		1-VS057W	
6C11		1-VS019	
6E1		1-VS019	
6E1N		1-VS019	
6F11		1-VS019	
6F12		1-VS019	
6P32		1-VS019	
6Y1		1-VS019	
6Y18		1-VS019	
6Y19		1-VS019	

Make and Model	RCA Battery A	AB	B
Admiral *(cont'd)*			
7P32		1-VS019	
7P33		1-VS019	
7P34		1-VS019	
27-G4	2-VS036		1-VS016
28-G5	2-VS036		1-VS016
29-G5	2-VS036		1-VS016
51D4		1-VS054	
76-P5	1-VS005		2-VS014
76-XP5	1-VS005		2-VS014
77-P5	1-VS005		2-VS014
77-XP5	1-VS005		2-VS014
78-P6	1-VS004		2-VS013
78-XP6	1-VS004		2-VS013
79-P6	1-VS004		2-VS013
79-XP6	1-VS004		2-VS013
231-4F	1-VS004		2-VS014
231-4Z	1-VS004		2-VS014
3114D-PH	1-VS004		2-VS013
319-4Z	1-VS005		2-VS014
331-4F	1-VS004		2-VS014
335-4Z	1-VS004		2-VS013
635-4Z	1-VS004		2-VS013
1035-4Z	1-VS004		2-VS013
1644-D	1-VS004		2-VS013
Air-Castle (Spiegel)			
BP115	1-VS010		2-VS013
DM700	4-VS036		1-VS016
EV760	4-VS036		1-VS016
G-521	2-VS002		2-VS013
76-74T	1-VS002		1-VS016
102-B	1-VS002		1-VS090
213	1-VS002		1-VS016
738B5400	1-VS072		1-VS090
5027	2-VS002		2-VS013
5028	2-VS036		1-VS016
5029	2-VS036		1-VS016
132564		1-VS022	
147114	5-VS036		1-VS016
Airchief (Firestone)			
4C1	2-VS036		1-VS016
4C5	2-VS036		1-VS016
4C13	5-VS036		1-VS016
4C16	1-VS067		1-VS090
4C17	1-VS067		1-VS090

For 1948 to 1955 Portable Radios
(Continued)

Make and Model	RCA Battery A	AB	B
Airchief (Firestone) *(cont'd)*			
4C18		1-VS019	
4C19	1-VS067		1-VS090
4C20	1-VS067		1-VS090
4C21	2-VS067		2-VS013
4C22	2-VS236		1-VS216
4C23		1-VS057W	
4C24		1-VS057W	
Air King			
A410	2-VS036		1-VS016
A425	1-VS036		1-VS016
A426	1-VS036		1-VS055
A427	1-VS036		1-VS055
A520	3-VS036		1-VS016
520A	1-VS129		1-VS016
3905	1-VS004		1-VS015
Airline (Mont-Ward)			
B4GCB-1062A	1-VS036		1-VS016
GSE-1077A	2-VS036		1-VS216
GSE-1078A	2-VS036		1-VS216
14BD9-815	4-VS036		1-VS016
15BD11-917		1-VS019	
25GHM-1073A		1-VS019	
35GHM-1073B		1-VS019	
35GHM-1073C		1-VS019	
35GHM-1074A	3-VS036		1-VS217
62TL-1062	1-VS036		1-VS016
64WG-1054A		1-VS019	
74KR-1210A		1-VS019	
74WG-1054A		1-VS019	
74WG-1056A		1-VS019	
84WG-1060A	4-VS036		1-VS016
94WG-1059A		1-VS019	
1064A	1-VS036		1-VS016

Make and Model	RCA Battery A	AB	B
Airline (M-W) *(Cont'd)*			
1067	2-VS036		1-VS016
1068	1-VS036		1-VS090
1070		1-VS019	
1072	1-VS036		1-VS090
Andrea			
8663	2-VS067		2-VS013
P163	2-VS002		2-VS013
Arvin			
140P		1-VS019	
240P	3-VS036		1-VS016
241P	4-VS036		1-VS016
244P	4-VS036		1-VS016
250P		1-VS019	
350P	6-VS035		1-VS090
350PB	6-VS035		1-VS090
350PL	6-VS035		1-VS090
351P	6-VS035		1-VS090
351PB	6-VS035		1-VS090
351PL	6-VS035		1-VS090
352PL	6-VS035		1-VS090
353PL	6-VS035		1-VS090
446P	2-VS036		1-VS016
447P	2-VS036		1-VS016
448P	6-VS035		1-VS016
449P	6-VS035		1-VS016
650P	6-VS035		2-VS055
652P Series	6-VS035		2-VS055
654P Series	6-VS035		2-VS055
746P	1-VS236		1-VS216
747P	1-VS236		1-VS216
852P	5-VS035		2-VS055
854P	5-VS035		2-VS055
Automatic			
Tom Thumb (Buddy)	2-VS036		1-VS016
Tom Thumb (Camera)	2-VS036		1-VS016
(Bike) B44	2-VS036		1-VS016
C-51	2-VS067		2-VS013
C-54	2-VS067		2-VS013
C-60	1-VS011		2-VS013
C65	1-VS011		2-VS013

For 1948 to 1955 Portable Radios
(Continued)

Make and Model	RCA Battery A	AB	B
Bendix			
PMR-3A	1-VS036		1-VS016
PAR-80		1-VS019	
PMR-3A	1-VS036		1-VS016
55X4	4-VS035		1-VS016
416A		1-VS022	
687A		1-VS019	
Capehart			
10	1-VS036		1-VS016
15		1-VS057W	
P213	2-VS236		1-VS216
1P55	2-VS236		1-VS216
Cavalier			
4P3		1-VS057W	
Clarion			
13201		1-VS022	
13203		1-VS022	
CBS-Columbia			
525	1-VS129		1-VS016
526	1-VS129		1-VS016
5110	2-VS035		1-VS216
5220	1-VS065		1-VS216
Concord			
1-611	2-VS002		2-VS013
Continental			
B-5400	1-VS072		1-VS090
Coronado			
RA37-43-9855	2-VS236		1-VS216
RA33-9856D		1-VS019	
RA42-9850A	2-VS036		1-VS016
35RA4-43-9856A		1-VS019	
94RA31	1-VS002		1-VS106
Crosley			
9-101		1-VS022	
9-302		1-VS019	
9-304	2-VS036		1-VS016
9-307M		1-VS057W	
10-304M	1-VS067		1-VS090

Make and Model	RCA Battery A	AB	B
Crosley *(cont'd)*			
10-307M		1-VS057W	
10-308		1-VS057W	
10-309		1-VS057W	
11-301U	1-VS036		1-VS016
11-302U	1-VS036		1-VS016
11-303U	1-VS036		1-VS016
11-304U	1-VS036		1-VS016
11-305U	1-VS036		1-VS016
F-100	2-VS236		1-VS217
F110BE	2-VS236		1-VS217
F110BK	2-VS236		1-VS217
F110CE	2-VS236		1-VS217
F110GN	2-VS236		1-VS217
F110RD	2-VS236		1-VS217
F115		1-VS058	
Detrola			
610-A		1-VS022	
3891	2-VS002		2-VS013
3892	2-VS002		2-VS013
3893	2-VS002		2-VS013
Dewald			
A-507	2-VS067		2-VS013
B-400	2-VS036		1-VS016
B-402	1-VS002		1-VS016
B-504	1-VS002		1-VS016
B-515	1-VS002		1-VS016
C-504	1-VS067		1-VS016
C-515	1-VS067		1-VS016
D-508	2-VS002		2-VS013
D-517	1-VS067		1-VS016
D-517A	1-VS067		1-VS090
F-504		1-VS022	
G-408	2-VS236		1-VS216
H-527	1-VS065		1-VS216
H-528	1-VS065		1-VS216
Dynavox			
3P801	2-VS036		1-VS016
Emerson			
CE-259	1-VS004		2-VS013
CE-263	1-VS004		2-VS013

For 1948 to 1955 Portable Radios
(Continued)

Make and Model	RCA Battery A	AB	B
Emerson *(cont'd)*			
CE-265	1-VS004		2-VS013
CE-275	1-VS004		2-VS013
CT-275	1-VS004		2-VS013
CX-263	1-VS004		2-VS013
CX-283	1-VS004		2-VS013
CX-284	1-VS004		2-VS013
CX-292	1-VS004		2-VS013
CX-305	2-VS067		2-VS013
CX-308	1-VS004		2-VS013
DA-338	2-VS067		2-VS013
DC-308	2-VS067		2-VS013
DF-302	2-VS067		2-VS013
DF-306	2-VS067		2-VS013
DJ-310	2-VS067		2-VS013
DJ-311	2-VS067		2-VS013
DJ-312	2-VS067		2-VS013
DU-379	2-VS036		1-VS016
DU380	2-VS036		1-VS016
EA312	2-VS067		2-VS013
EA338	2-VS067		2-VS013
EA357A	2-VS067		2-VS013
EA385	2-VS067		2-VS013
EA389	2-VS067		2-VS013
EA402	2-VS067		2-VS013
EA1341	2-VS067		2-VS013
EE390	2-VS067		2-VS013
EE401	2-VS067		2-VS013
EF363	2-VS067		2-VS013
FU424	2-VS067		2-VS013
FU427	2-VS067		2-VS013
FU428	2-VS067		2-VS013
FF411	2-VS036		1-VS016
33	2-VS067		2-VS013
34	2-VS067		2-VS013
302	2-VS067		2-VS013
338	2-VS067		2-VS013
339	2-VS067		2-VS013
340	2-VS067		2-VS013
341	2-VS067		2-VS013
357	2-VS067		2-VS013
363	2-VS067		2-VS013
401	2-VS067		2-VS013
402	2-VS067		2-VS013
424	2-VS067		2-VS013
427	2-VS067		2-VS013
428	2-VS067		2-VS013

Make and Model	RCA Battery A	AB	B
Emerson *(cont'd)*			
432	1-VS036		1-VS016
505	2-VS067		2-VS013
508	1-VS036		1-VS016
523	2-VS067		2-VS013
536	2-VS067		2-VS013
536A	2-VS067		2-VS013
551A	2-VS067		2-VS013
553A	2-VS067		2-VS013
558	2-VS036		1-VS016
559A	1-VS067		1-VS016
559AA	1-VS067		1-VS090
560	1-VS067		1-VS016
560A	1-VS067		1-VS090
567	1-VS067		1-VS090
568A		1-VS019	
570	3-VS036		1-VS016
574	3-VS036		1-VS016
575		1-VS019	
575A		1-VS019	
580	3-VS036		1-VS016
584	1-VS068		1-VS090
613A	1-VS036		1-VS016
640	1-VS036		1-VS016
643A	2-VS067		2-VS013
645	1-VS069		1-VS016
646A	1-VS072		1-VS090
646B	1-VS072		1-VS090
656B		1-VS019	
657B		1-VS019	
704	2-VS236		1-VS216
705	2-VS236		1-VS216
745B		1-VS057W	
746B		1-VS057W	
747	1-VS035		1-VS086
754		1-VS057W	
754D		1-VS057W	
790B	1-VS072		1-VS090
801	2-VS236		1-VS216
Fada			
P80	2-VS036		1-VS016
P82	2-VS067		2-VS013
P100	2-VS067		2-VS013
P111	3-VS036		1-VS016
P130	2-VS002		2-VS013

For 1948 to 1955 Portable Radios
(Continued)

Make and Model	RCA Battery A	AB	B
Firestone			
4C22	2-VS236		1-VS216
4C24		1-VS019	
Garod			
4B1	3-VS036		1-VS016
5D3	5-VS036		1-VS016
5D4	5-VS036		1-VS016
5D5	5-VS036		1-VS016
6E1	2-VS002		2-VS013
General Electric			
GB400	1-VS004		2-VS013
GB440	1-VS004		2-VS013
HB401	1-VS004		2-VS013
HB402	1-VS004		2-VS015
HB403	1-VS004		2-VS015
HB408	1-VS004		2-VS013
HB410	1-VS004		2-VS015
HB411	1-VS004		2-VS015
HB412	1-VS011		2-VS013
HB504	1-VS010		2-VS013
HB505	1-VS010		2-VS013
HB508	1-VS010		2-VS013
HBX467	1-VS004		2-VS015
JB410	2-VS036		1-VS016
JB508	1-VS011		2-VS013
JB513	1-VS011		2-VS013
JB514	1-VS011		2-VS013
JB523	1-VS011		2-VS013
JB524	1-VS011		2-VS013
JB630	2-VS067		2-VS013
JB631	2-VS067		2-VS013
LB412	2-VS036		1-VS016
LB502	2-VS036		1-VS016
LB603	2-VS036		1-VS016
LB612	2-VS036		1-VS016
LB641	2-VS036		1-VS016
LB642	2-VS036		1-VS016
LB673	2-VS067		2-VS013
LB700	2-VS067		2-VS013
LB701	2-VS067		2-VS013
LB702	2-VS067		2-VS013
LB703	2-VS067		2-VS013
140	2-VS036		1-VS016
141		1-VS057W	
143		1-VS057W	

Make and Model	RCA Battery A	AB	B
General Electric *(cont'd)*			
145	2-VS036		1-VS016
150		1-VS019	
165		1-VS019	
254	2-VS067		2-VS013
600		1-VS057W	
601		1-VS057W	
602		1-VS057W	
603		1-VS057W	
604		1-VS057W	
605	1-VS065		1-VS016
606	1-VS065		1-VS016
607	1-VS065		1-VS016
608	1-VS065		1-VS016
610		1-VS057W	
611		1-VS057W	
612	1-VS065		1-VS016
613	1-VS065		1-VS016
614		1-VS019	
615		1-VS019	
620	2-VS236		1-VS217
621	2-VS236		1-VS217
622	2-VS236		1-VS217
625	1-VS065		1-VS016
626	1-VS065		1-VS016
630	2-VS236		1-VS016
631	2-VS236		1-VS016
632	2-VS236		1-VS016
640		1-VS019	
641		1-VS019	
650		1-VS019	
Gilfillan			
5L-66B Series		1-VS019	
688D		1-VS019	
Globe			
454	2-VS036		1-VS016
456	2-VS036		1-VS016
Grantline			
508-7	5-VS036		1-VS016
Hallicrafters			
S72		1-VS019	
S-72-1950		1-VS019	
S72L		1-VS019	
5R24	1-VS065		1-VS090

For 1948 to 1955 Portable Radios
(Continued)

Make and Model	RCA Battery A	AB	B
Hallicrafters *(cont'd)*			
5R40	1-VS065		1-VS090
SR1000		1-VS058	
TW25	1-VS065		1-VS090
TW500		1-VS058	
TW600		1-VS058	
TW1000		1-VS047	
TW2000		1-VS047	
Jewel			
304	1-VS036		1-VS016
349	1-VS065		1-VS090
801	1-VS036		1-VS016
814	1-VS036		1-VS016
901	1-VS036		1-VS016
949	1-VS065		1-VS090
5007	1-VS065		1-VS016
5010	1-VS065		1-VS016
5050	1-VS065		1-VS090
5310	2-VS236		1-VS216
Knight			
4D450	3-VS036		1-VS016
4J707	1-VS065		1-VS090
4J708	2-VS067		2-VS013
4K717	2-VS236		1-VS216
5C290	2-VS067		2-VS013
5D455	5-VS036		1-VS016
5F565	2-VS036		1-VS016
6A127	2-VS067		2-VS013
6K718	2-VS067		2-VS013
145-D	5-VS036		1-VS016
156-D	3-VS036		1-VS016
449		1-VS019	
Learadio			
RM402C		1-VS019	
Lewyt			
711	2-VS002		2-VS013
Magictone			
510	1-VS036		1-VS016
Majestic			
4L1	2-VS236		1-VS217
4P1	2-VS036		1-VS090
5M1	1-VS236		1-VS218

Make and Model	RCA Battery A	AB	B
Meck			
CM500	5-VS036		2-VS055
DM700	4-VS036		1-VS016
EV760	4-VS036		1-VS016
Mitchell			
1256	1-VS067		1-VS090
1276	1-VS067		1-VS090
1277	1-VS067		1-VS090
Mitchell Industries			
AT-92-50 (Airboy Sr.)	2-VS036		2-VS016
1276	1-VS067		1-VS090
1277	1-VS067		1-VS090
1287		1-VS019	
Motorola (Galvin)			
A1	2-VS036		1-VS016
AR-96-23	2-VS036		1-VS016
AT-99-22	1-VS009		2-VS013
3A5	5-VS036		1-VS016
5A1	2-VS036		1-VS016
5A5	2-VS036		1-VS016
5A7	2-VS036		1-VS016
5A7A	2-VS036		1-VS016
5A9 Series	2-VS036		1-VS016
5J1	2-VS036		1-VS016
5J1U	2-VS036		1-VS016
5L1	2-VS036		1-VS016
5L1U	2-VS036		1-VS016
5M1	2-VS036		1-VS016
5M1U	2-VS036		1-VS016
5M2	2-VS036		1-VS016
5M2U	2-VS036		1-VS016
6L1		1-VS019	
6L2		1-VS019	
41D	1-VS004		2-VS013
41D1	1-VS004		2-VS013
41D2	1-VS004		2-VS013
41H	1-VS004		2-VS013
48L11	2-VS036		1-VS016
49L11Q	2-VS036		1-VS016
49L13Q	2-VS036		1-VS016
51D	1-VS004		2-VS013
51M1U	2-VS036		1-VS016
51M2U	2-VS036		1-VS016

For 1948 to 1955 Portable Radios
(Continued)

Make and Model	RCA Battery A	AB	B
Motorola (Galvin) *(cont'd)*			
51D1	1-VS004		2-VS013
51D2	1-VS004		2-VS013
51F	1-VS004		2-VS015
52D	1-VS004		2-VS013
52D1	1-VS004		2-VS013
52L	2-VS236		1-VS216
52M Series	2-VS036		1-VS016
53LC1	2-VS236		1-VS216
53LC2	2-VS236		1-VS216
53LC3	2-VS236		1-VS216
54L1	2-VS036		1-VS216
54L2	2-VS036		1-VS216
54L3	2-VS036		1-VS216
54L4	2-VS036		1-VS216
54L5	2-VS036		1-VS216
54L6	2-VS036		1-VS216
57BP	2-VS067		2-VS013
57BP1	2-VS067		2-VS013
57BP1A	2-VS067		2-VS013
57BP2	2-VS067		2-VS013
57BP2A	2-VS067		2-VS013
57BP3	2-VS067		2-VS013
57BP3A	2-VS067		2-VS013
57BP4	2-VS067		2-VS013
57BP4A	2-VS067		2-VS013
58L11	2-VS036		1-VS016
59L11Q	2-VS036		1-VS016
59L12Q	2-VS036		1-VS016
59L14Q	2-VS036		1-VS016
61-L11	2-VS067		2-VS013
61-L12	2-VS067		2-VS013
62L1U		1-VS057W	
62L2U		1-VS057W	
62L3U		1-VS057W	
63L1		1-VS057W	
63L2		1-VS057W	
63L3		1-VS057W	
63LSS		1-VS057W	
65BP	2-VS067		2-VS013
65BP1	2-VS067		2-VS013
65BP1A	2-VS067		2-VS013
65BP2	2-VS067		2-VS013
65BP2A	2-VS067		2-VS013
65BP3	2-VS067		2-VS013
65BP3A	2-VS067		2-VS013
65BP4	2-VS067		2-VS013

Make and Model	RCA Battery A	AB	B
Motorola (Galvin) *(cont'd)*			
65BP4A	2-VS067		2-VS013
65L11	2-VS067		2-VS013
65L12	2-VS067		2-VS013
67L11		1-VS019	
68L11		1-VS019	
69L11		1-VS019	
Norelco Philips			
LX422AB	2-VS036		2-VS016
LX527AB	7-VS036		2-VS015
Olympic			
6-606	2-VS067		2-VS013
6-606A	2-VS067		2-VS013
6-606U	2-VS067		2-VS013
7-526	2-VS067		2-VS013
8-451	1-VS036		1-VS016
8-452	2-VS036		1-VS016
9-452	2-VS002		2-VS013
445	2-VS236		1-VS217
489	1-VS036		1-VS016
Philco			
B650	2-VS236		1-VS217
B652	2-VS236		1-VS217
PT-87		1-VS038	
PT-88		1-VS038	
39-71T	1-VS004		2-VS013
39-72T	1-VS004		2-VS013
39-73T	1-VS004		2-VS013
39-74T	1-VS004		2-VS013
39-75		1-VS053	
39-504T	1-VS004		2-VS013
40-PT63		1-VS053	
40-74T	1-VS004		2-VS013
40-504T	1-VS004		2-VS013
41-PT63		1-VS053	
41-841		1-VS019	
41-842T	2-VS067		2-VS013
41-843T	2-VS067		2-VS013
41-844T	2-VS067		2-VS013
41-851		1-VS019	
41-853T	2-VS067		2-VS013
41-854T	2-VS067		2-VS013
41-8030		1-VS022	
42-PT-87		1-VS038	

RCA BATTERY REPLACEMENT GUIDE

For 1948 to 1955 Portable Radios
(Continued)

Make and Model	RCA Battery A	AB	B
Philco *(cont'd)*			
42-PT-88		1-VS038	
42-842	2-VS067		2-VS013
42-843	2-VS067		2-VS013
42-844	2-VS067		2-VS013
42-853	2-VS067		2-VS013
42-854	2-VS067		2-VS013
46-350		1-VS019	
46-131		1-VS022	
48-150		1-VS022	
48-300		1-VS019	
48-360		1-VS019	
48-601		1-VS057W	
48-602		1-VS057W	
49-101		1-VS019	
49-601		1-VS057W	
49-602		1-VS057W	
49-605		1-VS019	
49-607		1-VS019	
50-620		1-VS057W	
50-621		1-VS057W	
51-629		1-VS064	
51-631	2-VS036		1-VS016
52-643		1-VS057W	
53-650	2-VS236		1-VS217
53-651	2-VS036		1-VS016
53-652	2-VS236		1-VS217
53-656		1-VS057W	
53-658		1-VS057W	
Philips			
See Norelco Philips			
Philmore Kit			
300-3	1-VS072		1-VS090
Radiette			
PR-2	3-VS036		1-VS016
RCA			
AVR102	2-VS067		2-VS013
BP10	1-VS036		1-VS016
BP55	1-VS011		2-VS013
BP56	1-VS011		2-VS013
BP85	1-VS011		2-VS013
BX6		1-VS019	
BX55		1-VS050	

Make and Model	RCA Battery A	AB	B
RCA *(cont'd)*			
BX57		1-VS050	
B411	1-VS036		1-VS016
P5	1-VS004		2-VS013
QB55		1-VS022	
QB55X		1-VS022	
QB60		1-VS022	
2B400	2-VS236		1-VS216
2B401	2-VS236		1-VS216
2B402	2-VS236		1-VS216
2B403	2-VS236		1-VS216
2B404	2-VS236		1-VS216
2B405	2-VS236		1-VS216
2BX63		1-VS057W	
3BX51		1-VS050	
3BX52		1-VS050	
3BX53		1-VS050	
3BX54		1-VS050	
3BX61		1-VS047	
3BX671		1-VS047	
3BX672		1-VS047	
4QB3		1-VS022	
4QB3X		1-VS022	
5BX41	2-VS036		1-VS216
6B4A	1-VS036		1-VS016
6B4B	1-VS036		1-VS016
6B5	1-VS036		1-VS016
6BX5	2-VS036		1-VS216
6BX6A	2-VS036		1-VS216
6BX6B	2-VS036		1-VS216
6BX6C	2-VS036		1-VS216
6BX8A		1-VS050	
6BX8B		1-VS050	
6BX41A	2-VS036		1-VS216
6BX41B	2-VS036		1-VS216
6BX63		1-VS057W	
8BX5		1-VS050	
8BX6		1-VS019	
8BX54		1-VS050	
8BX55		1-VS050	
8B41	1-VS036		1-VS016
8B42	1-VS036		1-VS016
8B43	1-VS036		1-VS016
8F43		1-VS022	
9BX5		1-VS050	
9BX6		1-VS019	
9BX55		1-VS050	

RCA BATTERY REPLACEMENT GUIDE

For 1948 to 1955 Portable Radios
(Continued)

Make and Model	RCA Battery A	AB	B
RCA *(cont'd)*			
9BX56	1-VS065		1-VS016
15BP Series	1-VS004		2-VS013
25BP	1-VS004		2-VS013
26BP	2-VS067		2-VS013
36BP	2-VS067		2-VS013
54B1	1-VS036		1-VS016
54B1-N	1-VS036		1-VS016
54B2	1-VS036		1-VS016
54B3	1-VS036		1-VS016
54B5	1-VS036		1-VS016
55F		1-VS022	
58B	1-VS036		1-VS016
64F1		1-VS022	
64F2		1-VS022	
64F3		1-VS022	
65F		1-VS022	
66BX		1-VS019	
94BP4	1-VS004		2-VS013
94BP61	1-VS004		2-VS013
94BP62	1-VS004		2-VS013
94BP64	1-VS004		2-VS013
94BP66	1-VS004		2-VS013
94BP80	1-VS004		2-VS013
94BP81	1-VS004		2-VS013
96GA	1-VS004		2-VS013
Raytheon			
PR51	1-VS065		1-VS090
PR51A	1-VS065		1-VS090
PR52	1-VS065		1-VS090
Regal			
BP47	1-VS036		1-VS016
BP48	1-VS036		1-VS016
P-175	2-VS002		2-VS013
747	5-VS036		1-VS016
777	5-VS036		1-VS016
1500		1-VS022	
1877	1-VS002		1-VS016
1878	1-VS067		1-VS016
Remier			
93	1-VS004		2-VS015
94	1-VS004		2-VS015
95	1-VS004		2-VS015
5400	5-VS036		1-VS016
5410	5-VS036		1-VS016

Make and Model	RCA Battery A	AB	B
PP5461	5-VS036		2-VS055
Revere			
400	1-VS065		1-VS016
Roland			
4P2	2-VS035		1-VS216
5P2		1-VS057W	
5P4		1-VS057W	
6P2		1-VS057W	
Sentinel			
1U312PG	1-VS067		1-VS090
1U312PW	1-VS067		1-VS090
1U316PM	1-VS067		1-VS016
1U316PT	1-VS067		1-VS016
1U335PG	1-VS067		1-VS090
1U335PI	1-VS067		1-VS090
1U335PM	1-VS067		1-VS090
1U335PW	1-VS067		1-VS090
285P	2-VS067		2-VS013
312P	5-VS036		2-VS055
312PG	1-VS067		1-VS090
312PW	1-VS067		1-VS090
316P	1-VS067		1-VS016
319P	1-VS067		1-VS090
326P	2-VS036		1-VS016
335PG	1-VS067		1-VS090
335PI	1-VS067		1-VS090
335PM	1-VS067		1-VS090
335PW	1-VS067		1-VS090
345-P	1-VS002		1-VS090
347P	2-VS036		1-VS216
348P	1-VS067		1-VS090
Setchell-Carlson			
447		1-VS019	
449		1-VS019	
501	3-VS036		1-VS013
Signal			
141	1-VS036		1-VS055
341A	1-VS067		1-VS016
Silvertone (Sears)			
210	2-VS036		1-VS016
215	2-VS036		1-VS016
220		1-VS019	
225		1-VS019	

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

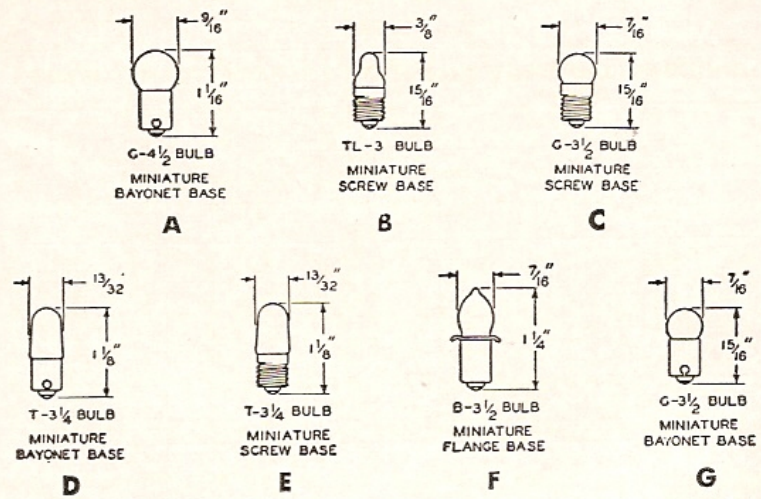
FLASHLIGHT TYPES

Type No.	Filament Volts	Filament Amps.	Bulb Outline*	Bead Color	Use with RCA Battery	
PR-2	2.4	0.50	F	Blue	VS036	(Two)
PR-3	3.6	0.50	F	Green	VS036	(Three)
PR-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 Volts	Filament Amps.	Bulb Outline*	Bead Color	Service
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 Test Instrument
55	6 to 8	2-candle power	A	White	Radio Panel 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



RCA TELEVISION COMPONENTS

- Deflecting Yokes
- Linearity and Width Controls
- Horizontal-Output and High-Voltage Transformers
- Blocking-Oscillator Transformers
- Focus Coils
- Vertical-Output Transformers
- Power Transformers
- Ion-Trap Magnets
- 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 gausses; small magnet, 15 gausses.	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 syncro-guide circuits.	203R1
4-terminal oscillator coil for syncro-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												RCA Type
	Plate Winding		Filament No. 1		Filament No. 2		Filament No. 3						
	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
2¾	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
5¾	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
6½	3.2	1.0	4	229S1
6½	3.2	1.47	5	224S1
6½	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

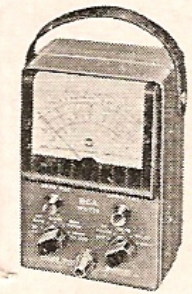
RCA Selenium Rectifiers are designed for general replacement use in TV, radio receivers, and phonographs. Advanced design, select raw materials, and superior workmanship make RCA Selenium Rectifiers a dependable line for virtually all service jobs.

- 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 senstive 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-μμf 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.

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