

RADIOTRON

CHARACTERISTICS CHART

AND SOCKET CONNECTIONS



RECEIVING TYPES

AMALGAMATED WIRELESS VALVE CO. PTY. LTD.

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This Chart is intended merely as a guide. For more comprehensive data on characteristics, maximum ratings and operating conditions of Radiotron Receiving Types reference should be made to the Radiotron loose-leaf Valve Data Book and the Receiving Manual RC-13, which are available at 2/2d. and 1/8d. per copy respectively, post paid, from the Unified Sales Engineering Service, Amalgamated Wireless Valve Co. Pty. Ltd., 47 York Street, Sydney.

TYPE	NAME	DIMENSIONS SOCKET CONNECTIONS		CATHODE TYPE AND RATING			USE Values to right give operating conditions and characteristics for indicated typical use	PLATE SUPPLY	GRID BIAS	SCREEN SUPPLY	SCREEN CURRENT	PLATE CURRENT	A-C PLATE RESISTANCE	TRANS-CONDUCTANCE (GRID-PLATE)	AMPLIFICATION FACTOR	LOAD FOR STATED POWER OUTPUT	POWER OUTPUT	TYPE
		DIMEN.	S.C.	C.T.	VOLTS	AMP.		VOLTS	VOLTS	VOLTS	MA.	MA.	OHMS	UMHOS		OHMS	WATTS	
SUPPLEMENTARY AUSTRALIAN TYPES																		
1C4	SUPER-CONTROL R-F AMPLIFIER PENTODE	D13	4M	D.C. F	2.0	0.12	CLASS A AMPLIFIER	135 135 180	{ 0 } { min. }	45 67.5 67.5	0.5 0.9 0.9	1.25 2.5 2.5	1,560,000 800,000 1,000,000	780 1000 1000	1220 800 1000	—	—	1C4
ID4	POWER AMPLIFIER PENTODE	D12	5K	D.C. F	2.0	0.24	AMPLIFIER	For other characteristics, refer to Type 1L5-G.										ID4
IK4	R-F AMPLIFIER PENTODE	D13	4M	D.C. F	2.0	0.12	AMPLIFIER	For other characteristics, refer to Type 1K5-G.										IK4
1K5-G	R-F AMPLIFIER PENTODE	D8	G-5Y	D.C. F	2.0	0.12	R.F. AMPLIFIER	135 135 180	{ 0 } { min. }	45 67.5 67.5	0.5 0.9 0.9	1.25 2.5 2.5	1,750,000 1,000,000 1,240,000	820 1050 1050	1430 1050 1300	—	—	1K5-G
							A.F. AMPLIFIER	135 135 180 180	{ —1.5 }	{ Screen Supply, 135 volts applied through 0.75 megohm resistor. } { Screen Supply, 180 volts applied through 1.0 megohm resistor. }			Grid Resistor** 0.5 megohm. Voltage Gain, 62.5. Grid Resistor** 1.0 megohm. Voltage Gain, 75.0. Grid Resistor** 0.5 megohm. Voltage Gain, 74.0. Grid Resistor** 1.0 megohm. Voltage Gain, 88.5.					
							TRIODE CLASS A AMPLIFIER	135 180	—4.5 —6.0	— —	— —	3.5 6.0	10,700 8,800	1400 1700	15 15.3	20,000 15,000	0.07 0.11	
1K6	DUPLEX-DIODE PENTODE	D13	6WA	D.C. F	2.0	0.12	PENTODE UNIT AS AMPLIFIER	For other characteristics, refer to Type 1K7-G.										1K6
1K7-G	DUPLEX-DIODE PENTODE	D8	G-7AE	D.C. F	2.0	0.12	PENTODE UNIT AS R.F. AMPLIFIER	135 135 180	0 0 —3.0	45 67.5 90	0.35 0.7 0.35	0.9 1.8 0.9	2,000,000 1,250,000 2,000,000	620 800 600	1250 1000 1250	—	—	1K7-G
							PENTODE UNIT AS A.F. AMPLIFIER	135 135 180 180	{ —1.5 }	{ Screen Supply, 135 volts applied through 1.0 megohm resistor. } { Screen Supply, 180 volts applied through 1.0 megohm resistor. }			Grid Resistor** 0.5 megohm. Voltage Gain, 63.0. Grid Resistor** 1.0 megohm. Voltage Gain, 76.0. Grid Resistor** 0.5 megohm. Voltage Gain, 69.0. Grid Resistor** 1.0 megohm. Voltage Gain, 83.0.					
							PENTODE UNIT AS TRIODE CLASS A AMPLIFIER	135 180	—4.5 —6.0	— —	— —	2.0 3.5	16,500 15,000	900 1000	15 15	30,000 40,000	0.038 0.060	
							CLASS A AMPLIFIER	135 157.5 180	—4.5 —4.5 —6.0	135 157.5 180	1.5 2.2 2.3	6.0 9.0 9.5	150,000 125,000 137,000	2150 2400 2400	330 300 330	15,000 15,000 15,000	0.35 0.55 0.75	
1L5-G	POWER AMPLIFIER PENTODE	D10	G-6X	D.C. F	2.0	0.24	CLASS A AMPLIFIER	135 157.5 180	—4.5 —4.5 —6.0	135 157.5 180	1.5 2.2 2.3	6.0 9.0 9.5	150,000 125,000 137,000	2150 2400 2400	330 300 330	15,000 15,000 15,000	0.35 0.55 0.75	1L5-G
1M5-G	SUPER-CONTROL R-F AMPLIFIER PENTODE	D8	G-5Y	D.C. F	2.0	0.12	CLASS A AMPLIFIER	135 135 180	{ 0 } { min. }	45 67.5 67.5	0.5 0.9 0.9	1.25 2.5 2.5	1,800,000 1,000,000 1,450,000	780 1000 1000	1400 1000 1450	—	—	1M5-G
6B7S	DUPLEX-DIODE SUPER-CONTROL PENTODE	D9	7D	H	6.3	0.3	PENTODE UNIT AS AMPLIFIER	For other characteristics, refer to Type 6G8-G.										6B7S
6G8-G	DUPLEX-DIODE SUPER-CONTROL PENTODE	D8	G-8E‡	H	6.3	0.3	PENTODE UNIT AS R.F. AMPLIFIER	250 250	{ —3.0 } { min. }	100 125	1.5 2.2	6.5 9.5	850,000 510,000	1100 1210	900 600	—	—	6G8-G
							PENTODE UNIT AS A.F. AMPLIFIER	135 250	{ —3.0 } { min. }	{ Self-bias 2000 ohms, Screen Supply } { from Voltage Divider 1.0 and 0.25 meg. }			Gain per Stage = 63.5 ☒, 75 ☒. Gain per Stage = 77 ☒, 93 ☒.					
6K8-G	TRIODE-HEXODE CONVERTER	D8	G-8K‡	H	6.3	0.3	TRIODE UNIT AS OSCILLATOR	100	□	Triode-Grid Resistor ☉		3.8	Triode-Grid & Hexode-Grid Current, 0.15 ma.					6K8-G
							HEXODE UNIT AS MIXER	100 250	{ —3.0 } { min. }	100 100	□	6.2 6.0	2.3 2.5	400,000 600,000	Conversion Conductance, 325 micromhos Conversion Conductance, 350 micromhos			

TYPE	NAME	DIMENSIONS SOCKET CONNECTIONS		CATHODE TYPE AND RATING		USE Values to right give operating conditions and characteristics for indicated typical use	PLATE SUP- PLY VOLTS	GRID BIAS VOLTS	SCREEN SUPPLY VOLTS	SCREEN CUR- RENT MA.	PLATE CUR- RENT MA.	A-C PLATE RESIS- TANCE OHMS	TRANS- CONDUCT- TANCE (GRID- PLATE) μMHOS	AMPLIFI- CATION FACTOR	LOAD FOR STATED POWER OUTPUT OHMS	POWER OUT- PUT WATTS	TYPE	
		DIMEN.	S. C.	C. T.	VOLTS													AMP.
GENERAL TYPES																		
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	—	—	00-A	
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	—	—	01-A	
0A4-G	GAS-TRIODE	D3	G-4V	Cold	—	—	RELAY SERVICE	Peak Cathode Current, 100 max. ma. D-C Cathode Current, 25 max. ma. Starter-Anode Drop, 60 approx. volts. Anode Drop, 70 approx. volts.								0A4-G		
0Z4	FULL-WAVE GAS RECTIFIER	B3	4R	Cold	—	—	RECTIFIER	Starting-Supply Voltage per Plate, 300 min. peak volts. Peak Plate Current, 200 max. ma. D-C Output Current, 75 max., 30 min. ma. D-C Output Voltage, 300 max. volts.								0Z4		
0Z4-G	FULL-WAVE GAS RECTIFIER	B1	G-4R	Cold	—	—	RECTIFIER									0Z4-G		
1A4-P	SUPER-CONTROL R-F AMPLIFIER PENTODE	D9	4M	D.C. F	2.0	0.06	AMPLIFIER	For other characteristics, refer to Type 1D5-GP.								1A4-P		
1A5-G	POWER AMPLIFIER PENTODE	D1	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	240 255	25000 25000	0.100 0.115	1A5-G
1A6	PENTAGRID CONVERTER	D9	6L	D.C. F	2.0	0.06	CONVERTER	For other characteristics, refer to Type 1D7-G.								1A6		
1A7-G	PENTAGRID CONVERTER	D6	G-7Z	D.C. F	1.4	0.05	CONVERTER	90	0	45	0.6	0.55	600000	Anode-Grid (#2): 90 max. volts, 1.2 ma. Oscillator-Grid (#1) Resistor, 0.2 meg. Conversion Conductance, 250 micromhos.			1A7-G	
1B4-P	R-F AMPLIFIER PENTODE	D9	4M	D.C. F	2.0	0.06	AMPLIFIER	For other characteristics, refer to Type 1E5-GP.								1B4-P		
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.								1B5/25S		
1C5-G	POWER AMPLIFIER PENTODE	D1	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	165 180	9000 8000	0.20 0.24	1C5-G
1C6	PENTAGRID CONVERTER	D9	6L	D.C. F	2.0	0.12	CONVERTER	For other characteristics, refer to Type 1C7-G.								1C6		
1C7-G	PENTAGRID CONVERTER	D8	G-7Z	D.C. F	2.0	0.12	CONVERTER	135 180	{ - 3.0 min. }	67.5 67.5	2.0 2.0	1.3 1.5	550000 750000	Anode-Grid (#2): 180 max. volts, 3.3 ma. Oscillator-Grid (#1) Resistor, 0.2 meg. Conversion Conductance, 325 micromhos.			1C7-G	
1D5-GP	SUPER-CONTROL R-F AMPLIFIER PENTODE	D8	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 1000000	720 750	425 750	—	—	1D5-GP
1D7-G	PENTAGRID CONVERTER	D8	G-7Z	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, 0.2 meg. Conversion Conductance, 300 micromhos.			1D7-G	
1E5-GP	R-F 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	1000000 1500000	600 650	550 1000	—	—	1E5-GP
1E7-G	TWIN PENTODE POWER AMPLIFIER	D3	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	0.65	1E7-G	
1F4	POWER AMPLIFIER PENTODE	D12	5K	D.C. F	2.0	0.12	AMPLIFIER	For other characteristics, refer to Type 1F5-G.								1F4		
1F5-G	POWER AMPLIFIER PENTODE	D10	G-8X	D.C. F	2.0	0.12	CLASS A AMPLIFIER	90 135	- 3.0 - 4.5	90 135	1.3 2.6	4.0 8.0	240000 200000	1400 1700	340 340	20000 16000	0.12 0.34	1F5-G

1F6	DUPLEX-DIODE PENTODE	D9	6W	D.C. F	2.0	0.06	PENTODE UNIT AS AMPLIFIER	For other characteristics, refer to Type 1F7-GV.										1F6			
1F7-GV	DUPLEX-DIODE PENTODE	D8	G-7AD	D.C. F	2.0	0.06	PENTODE UNIT AS R-F AMPLIFIER	180	- 1.5	67.5	0.6	2.0	1000000	650	650	—	—	1F7-GV			
							PENTODE UNIT AS A-F AMPLIFIER	135	- 2.0	Screen Supply, 135 volts applied through 0.8-megohm resistor. Grid Resistor, * 1.0 megohm. Voltage Gain, 46.											
1G5-G	POWER AMPLIFIER PENTODE	D10	G-6X	D.C. F	2.0	0.12	CLASS A AMPLIFIER	90	- 6.0	90	2.5	8.5	133000	1500	200	8500	0.25	1G5-G			
								135	-13.5	135	2.5	8.7	160000	1550	250	9000	0.55				
1G6-G	TWIN TRIODE AMPLIFIER	D1	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	0.45	1G6-G		
1H4-G	DETECTOR* AMPLIFIER	D3	G-5S	D.C. F	2.0	0.06	CLASS A AMPLIFIER	90	- 4.5	—	—	2.5	11000	850	9.3	—	—	1H4-G			
								135	- 9.0	—	—	3.0	10300	900	9.3	—	—				
								180	-13.5	—	—	3.1	10300	900	9.3	—	—				
							CLASS B AMPLIFIER	157.5	-15.0	—	—	1.0	—	—	—	8000	2.1				
1H5-G	DIODE HIGH-MU TRIODE	D6	G-5Z	D.C. F	1.4	0.05	TRIODE UNIT AS CLASS A AMPLIFIER	90	0	—	—	0.14	240000	275	65	—	—	1H5-G			
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	—	—	1H6-G			
1J6-G	TWIN TRIODE AMPLIFIER	D3	G-7AB	D.C. F	2.0	0.24	CLASS B AMPLIFIER	135	0	—	—	—	Power Output is for one tube at stated plate-to-plate load.				10000	2.1	1J6-G		
								135	- 3.0	—	—	—	—	—	—	10000	1.9				
1N5-G	R-F AMPLIFIER PENTODE	D6	G-5Y	D.C. F	1.4	0.05	CLASS A AMPLIFIER	90	0	90	0.3	1.2	1500000	750	1160	—	—	1N5-G			
1-V	HALF-WAVE RECTIFIER	D5	4G	H	6.3	0.3	Maximum A-C Plate Voltage.....350 Volts, RMS Maximum D-C Output Current..... 50 Milliamperes										1-v				
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	2A3			
							PUSH-PULL CLASS AB ₁ AMPLIFIER	300	Self-bias, 780 ohms	—	—	80.0	—	—	—	5000	10.0				
								300	-62 volts, fixed bias	—	—	80.0	—	—	—	3000	15.0				
2A5	POWER AMPLIFIER PENTODE	D12	6B	H	2.5	1.75	AMPLIFIER	For other characteristics, refer to Type 6F6.										2A5			
2A6	DUPLEX-DIODE HIGH-MU TRIODE	D9	6G	H	2.5	0.8	TRIODE UNIT AS AMPLIFIER	For other characteristics, refer to Type 6SQ7.										2A6			
2A7	PENTAGRID CONVERTER	D9	7C	H	2.5	0.8	CONVERTER	For other characteristics, refer to Type 6A7.										2A7			
2B7	DUPLEX-DIODE PENTODE	D9	7D	H	2.5	0.8	PENTODE UNIT AS AMPLIFIER	For other characteristics, refer to Type 6B8-G.										2B7			
5T4	FULL-WAVE RECTIFIER	D7	5T	F	5.0	2.0	A-C Voltage per Plate (Volts RMS).....	450	550	The 550-volt rating applies to filter circuits having an input choke of at least 10 henries.										5T4	
							D-C Output Current (Maximum Ma.).....	250	250												
5U4-G	FULL-WAVE RECTIFIER	E2	G-5T	F	5.0	3.0	Maximum A-C Voltage per Plate.....	500 Volts, RMS										5U4-G			
							Maximum D-C Output Current.....	250 Milliamperes													
5V4-G	FULL-WAVE RECTIFIER	D10	G-5L	H	5.0	2.0	Maximum A-C Voltage per Plate.....	400 Volts, RMS										5V4-G			
							Maximum D-C Output Current.....	200 Milliamperes													
5W4	FULL-WAVE RECTIFIER	C2	5T	F	5.0	1.5	A-C Voltage per Plate (Volts, RMS).....	350 400										5W4			
							D-C Output Current (Maximum Ma.).....	110 90													
5X4-G	FULL-WAVE RECTIFIER	E2	G-5Q	F	5.0	3.0	For other ratings, refer to Type 5U4-G.										5X4-G				
5Y3-G	FULL-WAVE RECTIFIER	D10	G-5T	F	5.0	2.0	Maximum A-C Voltage per Plate.....	400 Volts, RMS										5Y3-G			
							Maximum D-C Output Current.....	125 Milliamperes													
5Y4-G	FULL-WAVE RECTIFIER	D10	G-5Q	F	5.0	2.0	A-C Voltage per Plate (Volts RMS).....	350	400	550	The 550-volt rating applies to filter circuits having an input choke of at least 20 henries.										5Y4-G
							D-C Output Current (Maximum Ma.).....	125	110	135											
5Z3	FULL-WAVE RECTIFIER	E3	4C	F	5.0	3.0	For other ratings, refer to Type 5U4-G.										5Z3				

TYPE	NAME	DIMENSIONS SOCKET CONNECTIONS		CATHODE TYPE AND RATING		USE Values to right give operating conditions and characteristics for indicated typical use	PLATE SUP- PLY VOLTS	GRID BIAS ■ VOLTS	SCREEN SUPPLY VOLTS	SCREEN CUR- RENT MA.	PLATE CUR- RENT MA.	A-C PLATE RESIS- TANCE OHMS	TRANS- CONDUCT- TANCE (GRID- PLATE) μMHOS	AMPLIFI- CATION FACTOR	LOAD FOR STATED POWER OUTPUT OHMS	POWER OUT- PUT WATTS	TYPE	
		DIMEN.	S. C.	C. T.	VOLTS													AMP.
5Z4	FULL-WAVE RECTIFIER	C2	5L	H	5.0	2.0	Maximum A-C Voltage per Plate.....400 Volts, RMS Maximum D-C Output Current.....125 Milliamperes										5Z4	
6A4/LA	POWER AMPLIFIER PENTODE	D12	5B	F	6.3	0.3	CLASS A AMPLIFIER	100 180	- 6.5 -12.0	100 180	1.6 3.9	9.0 22.0	83250 45500	1200 2200	100 100	11000 8000	0.31 1.40	6A4/LA
6A6	TWIN TRIODE AMPLIFIER	D12	7B	H	6.3	0.8	AMPLIFIER	For other characteristics, refer to Type 6N7.										6A6
6A7	PENTAGRID CONVERTER	D9	7C	H	6.3	0.3	CONVERTER	100 250	-1.5 min. -3.0 min.	50 100	1.3 2.7	1.1 3.5	600000 360000	Anode-Grid (#2): 250 μ max. volts, 4.0 ma. Oscillator-Grid (#1) Resistor ∞ . Conversion Conductance, 520 micromhos.				6A7
6A8	PENTAGRID CONVERTER	C1	8A	H	6.3	0.3	CONVERTER	100 250	-1.5 min. -3.0 min.	50 100	1.5 3.2	1.2 3.3	600000 360000	Anode-Grid (#2): 250 μ max. volts, 4.0 ma. Oscillator-Grid (#1) Resistor ∞ . Conversion Conductance, 500 micromhos.				6A8
6A8-G	PENTAGRID CONVERTER	D8	G-8A;	H	6.3	0.3	CONVERTER	100 250	-1.5 min. -3.0 min.	50 100	1.3 2.7	1.1 3.5	600000 360000	Anode-Grid (#2): 250 μ max. volts, 4.0 ma. Oscillator-Grid (#1) Resistor ∞ . Conversion Conductance, 550 micromhos.				6A8-G
6A8-GT	PENTAGRID CONVERTER	C3	G-8A;	H	6.3	0.3	CONVERTER	For other characteristics, refer to Type 6A8.										6A8-GT
6AC5-G	HIGH-MU POWER AMPLIFIER TRIODE	D3	G-6Q;	H	6.3	0.4	CLASS B AMPLIFIER	250	0	—	—	5.0 \uparrow	—	—	—	10000	8.0 \dagger	6AC5-G
							DYNAMIC-COUPLED AMPLIFIER WITH TYPE 76 DRIVER	250	Bias for both 6AC5-G and 76 is developed in coupling circuit. Average Plate Current of Driver = 5.5 milliamperes. Average Plate Current of 6AC5-G = 32 milliamperes.				7000	3.7				
6AF6-G	ELECTRON-RAY TUBE Twin Indicator Type	B2	G-7AG	H	6.3	0.15	VISUAL INDICATOR	Target Voltage, 100 volts. Control-Electrode Voltage, 0 volts; Shadow Angle, 100°; Target Current, 0.9 ma. Control-Electrode Voltage, 60 volts; Angle, 0°. Target Voltage, 135 volts. Control-Electrode Voltage, 0 volts; Shadow Angle, 100°; Target Current, 1.5 ma. Control-Electrode Voltage, 81 volts; Angle, 0°.										6AF6-G
6B6-G	DUPLEX-DIODE HIGH-MU TRIODE	D8	G-7V;	H	6.3	0.3	TRIODE UNIT AS CLASS A AMPLIFIER	250	- 2.0	—	—	1.0	91000	1100	100	—	—	6B6-G
6B7	DUPLEX-DIODE PENTODE	D9	7D	H	6.3	0.3	PENTODE UNIT AS AMPLIFIER	For other characteristics, refer to Type 6B8-G.										6B7
6B8	DUPLEX-DIODE PENTODE	C1	8E	H	6.3	0.3	PENTODE UNIT AS R-F AMPLIFIER	250	- 3.0	125	2.3	10.0	600000	1325	800	—	—	6B8
							PENTODE UNIT AS A-F AMPLIFIER	90 \times 300 \times	Self-bias, 3500 ohms. Screen Resistor = 1.1 meg. Self-bias, 1600 ohms. Screen Resistor = 1.2 meg.	Grid Resistor,** 0.5 megohm.		Gain per stage = 55 Gain per stage = 79						
6B8-G	DUPLEX-DIODE PENTODE	D8	G-8E;	H	6.3	0.3	PENTODE UNIT AS R-F AMPLIFIER	100 250	- 3.0 - 3.0	100 125	1.7 2.3	5:8 9.0	300000 650000	950 1125	285 730	—	—	6B8-G
							PENTODE UNIT AS A-F AMPLIFIER	90 \times 300 \times	Self-bias, 3500 ohms. Screen Resistor = 1.1 meg. Self-bias, 1600 ohms. Screen Resistor = 1.2 meg.	Grid Resistor,** 0.5 megohm.		Gain per stage = 55 Gain per stage = 79						
6C5	DETECTOR* AMPLIFIER TRIODE	B3	8Q	H	6.3	0.3	CLASS A AMPLIFIER	90 \heartsuit 300 \heartsuit	Self-bias, 6400 ohms. Self-bias, 5300 ohms.	Grid Resistor,** 0.25 megohm				Gain per stage = 11 Gain per stage = 13		6C5		
							BIAS DETECTOR	250	-17.0 approx. Plate current to be adjusted to 0.2 milliamperes with no signal.									

6C5-G	DETECTOR-AMPLIFIER TRIODE	D3	G-6Q††	H	6.3	0.3	AMPLIFIER DETECTOR	For other characteristics, refer to Type 6C5.								6C5-G		
6C6	TRIPLE-GRID DETECTOR AMPLIFIER	D13	8F	H	6.3	0.3	AMPLIFIER DETECTOR	For other characteristics, refer to Type 6J7.								6C6		
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	—	—	6C8-G
6D6	TRIPLE-GRID SUPER-CONTROL AMPLIFIER	D13	8F	H	6.3	0.3	AMPLIFIER MIXER	For other characteristics, refer to Type 6U7-G.								6D6		
6D8-G	PENTAGRID CONVERTER	D8	G-8A†	H	6.3	0.15	CONVERTER	135 250	{ - 3.0 min. }	67.5 100	—	—	400000 320000	Anode-Grid (#2): 250 μ max. volts. Oscillator-Grid (#1) Resistor ∞ . Conversion Conductance, 500 micromhos.			6D8-G	
6E5	ELECTRON-RAY TUBE	D5	8R	H	6.3	0.3	VISUAL INDICATOR	Plate & Target Supply = 100 volts. Triode Plate Resistor = 0.5 meg. Target Current = 1.0 ma. Grid Bias, -3.3 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, -8.0 volts; Shadow Angle, 0°. Bias, 0 volts; Angle, 90°; Plate Current, 0.24 ma.								6E5		
6F5	HIGH-MU TRIODE	C1	5M	H	6.3	0.3	AMPLIFIER	For other characteristics, refer to Type 6SF5.								6F5		
6F5-G	HIGH-MU TRIODE	D8	G-5M††	H	6.3	0.3	AMPLIFIER	For other characteristics, refer to Type 6SF5.								6F5-G		
6F6	POWER AMPLIFIER PENTODE	C2	7S	H	6.3	0.7	PENTODE CLASS A AMPLIFIER	250	-16.5	250	6.5	34.0	80000	2500	200	7000	3.0	6F6
							315	-22.0	315	8.0	42.0	75000	2650	200	7000	5.0		
							TRIODE CLASS A AMPLIFIER	250	-20.0	—	—	31.0	2600	2600	6.8	4000	0.85	
							PENTODE PUSH-PULL CLASS A AMPLIFIER	315	Self-bias	315	16.0 \uparrow	84.0 \uparrow	Self-Bias Resistor, 220 ohms \uparrow		10000	13.0 \uparrow		
							315	-22.0	315	16.0 \uparrow	84.0 \uparrow	—		10000	13.0 \uparrow			
							PENTODE PUSH-PULL CLASS AB ₂ AMPLIFIER	375	Self-bias	250	8.0 \uparrow	54.0 \uparrow	Self-Bias Resistor, 340 ohms \uparrow		10000	19.0 \uparrow		
375	-26.0	250	5.0 \uparrow	34.0 \uparrow	—		10000	19.0 \uparrow										
TRIODE PUSH-PULL CLASS AB ₂ AMPLIFIER	350	Self-bias	—	—	50.0 \uparrow	Self-Bias Resistor, 730 ohms \uparrow		10000	14.0 \uparrow									
350	-38.0	—	—	—	45.0 \uparrow	—		6000	18.0 \uparrow									
6F6-G	POWER AMPLIFIER PENTODE	D10	G-7S†	H	6.3	0.7	AMPLIFIER	For other characteristics, refer to Type 6F6.								6F6-G		
6F7	TRIODE-PENTODE	D8	7E	H	6.3	0.3	TRIODE UNIT AS CLASS A AMPLIFIER	100	- 3.0	—	—	3.5	16000	500	8	—	—	6F7
							PENTODE UNIT AS CLASS A AMPLIFIER	100	{ - 3.0 min. }	100	1.6	6.3	290000	1050	300	—	—	
							250	—	100	1.5	6.5	850000	1100	900	—	—		
PENTODE UNIT AS MIXER	250	-10.0	100	0.6	2.8	Oscillator Peak Volts = 7.0. Conversion Conductance = 300 micromhos.				—	—							
6F8-G	TWIN TRIODE AMPLIFIER	D8	G-8G	H	6.3	0.6	EACH UNIT AS AMPLIFIER	250	- 8.0	—	—	9.0	7700	2600	20	—	—	6F8-G
6G6-G	POWER AMPLIFIER PENTODE	D3	G-7S†	H	6.3	0.15	CLASS A AMPLIFIER	135 180	- 6.0 - 9.0	135 180	2.0 2.5	11.5 15.0	170000 175000	2100 2300	360 400	12000 10000	0.6 1.1	6G6-G
6H6	TWIN DIODE	A1	7Q	H	6.3	0.3	DETECTOR RECTIFIER	Maximum A-C Voltage per Plate.....100 Volts, RMS Maximum D-C Output Current..... 4 Milliamperes								6H6		
6H6-G	TWIN DIODE	D3	G-7Q††	H	6.3	0.3	DETECTOR RECTIFIER	For other ratings, refer to Type 6H6.								6H6-G		
6J5	DETECTOR AMPLIFIER TRIODE	B3	6Q	H	6.3	0.3	CLASS A AMPLIFIER	250	- 8.0	—	—	9.0	7700	2600	20	—	—	6J5
6J5-G	DETECTOR AMPLIFIER TRIODE	D3	G-6Q†	H	6.3	0.3	AMPLIFIER	For other characteristics, refer to Type 6J5.								6J5-G		

TYPE	NAME	DIMENSIONS SOCKET CONNec- TIONS		CATHODE TYPE AND RATING			USE Values to right give operating conditions and characteristics for indicated typical use	PLATE SUP- PLY VOLTS	GRID BIAS ■ VOLTS	SCREEN SUPPLY VOLTS	SCREEN CUR- RENT MA.	PLATE CUR- RENT MA.	A-C PLATE RESIS- TANCE OHMS	TRANS- CONDCU- TANCE (GRID- PLATE) μMHOS	AMPLIFI- CATION FACTOR	LOAD FOR STATED POWER OUTPUT OHMS	POWER OUT- PUT WATTS	TYPE	
		DIMEN.	S. C.	C. T.	VOLTS	AMP.													
6J7	TRIPLE-GRID DETECTOR AMPLIFIER	C1	7R	H	6.3	0.3	CLASS A R-F AMPLIFIER	100 250	- 3.0 - 3.0	100 100	0.5 0.5	2.0 2.0	1000000 1.5 + 1	1185 1225	1185 1500+	—	—	6J7	
							CLASS A A-F AMPLIFIER	90 × 300 ×	Self-bias, 2600 ohms. Screen Resistor = 1.2 meg. Self-bias, 1200 ohms. Screen Resistor = 1.2 meg.		Grid Resistor, ** 0.5 megohm.		{ Gain per stage = 85 Gain per stage = 140						
							BIAS DETECTOR	250	- 4.3	100	Cathode current 0.43 ma.		Plate Resistor, 500000 ohms. Grid Resistor, ** 250000 ohms.						
6J7-G	TRIPLE-GRID DETECTOR AMPLIFIER	D8	G-7R½	H	6.3	0.3	AMPLIFIER DETECTOR	For other characteristics, refer to Type 6J7.										6J7-G	
6K5-C	HIGH-MU TRIODE	D8	G-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	—	—	6K5-G	
6K6-G	POWER AMPLIFIER PENTODE	D3	G-7S½	H	6.3	0.4	CLASS A AMPLIFIER	100 250	- 7.0 -18.0	100 250	1.6 5.5	9.0 32.0	103500 68000	1450 2200	150 150	12000 7600	0.33 3.40	6K6-G	
6K7	TRIPLE-GRID SUPER-CONTROL AMPLIFIER	C1	7R	H	6.3	0.3	CLASS A AMPLIFIER	90 250	{ - 3.0 } min.	90 125	1.3 2.6	5.4 10.5	315000 600000	1275 1650	400 990	—	—	6K7	
							MIXER IN SUPERHETERODYNE	250	- 10.0	100	Oscillator Peak Volts = 7.0								
6K7-G	TRIPLE-GRID SUPER-CONTROL AMPLIFIER	D8	G-7R½	H	6.3	0.3	AMPLIFIER MIXER	For other characteristics, refer to Type 6K7.										6K7-G	
6K7-GT	TRIPLE-GRID SUPER-CONTROL AMPLIFIER	C3	G-7R½	H	6.3	0.3	CLASS A AMPLIFIER	100 250	{ - 3.0 } min.	100 100	1.6 1.7	6.5 7.0	250000 800000	1325 1450	350 1160	—	—	6K7-GT	
6K8	TRIODE-HEXODE CONVERTER	C1	8K	H	6.3	0.3	TRIODE UNIT AS OSCILLATOR	100	Triode-Grid Resistor■		3.8		Triode-Grid & Hexode-Grid Current, 0.15 ma.					6K8	
							HEXODE UNIT AS MIXER	100 250	{ - 3.0 } min.	100 100	6.2 6.0	2.3 2.5	400000 600000	Conversion Conductance, 325 micromhos. Conversion Conductance, 350 micromhos.					
6L5-G	DETECTOR AMPLIFIER TRIODE	D3	G-6Q½	H	6.3	0.15	CLASS A AMPLIFIER	135 250	- 5.0 - 9.0	—	—	3.5 8.0	11300 9000	1500 1900	17 17	—	—	6L5-G	
6L6	BEAM POWER AMPLIFIER	D7	7AC	H	6.3	0.9	SINGLE-TUBE CLASS A ₁ AMPLIFIER	250 250	-14.0 Self-bias	250 250	5.0 5.4	72.0 75.0	Self-Bias Resistor, 170 ohms.		—	—	2500 2500	6.5 6.5	6L6
							PUSH-PULL CLASS A ₁ AMPLIFIER	250 250	-16.0 Self-bias	250 250	10.0 10.0	120.0 120.0	Self-Bias Resistor, 125 ohms.▲		—	—	5000 5000	14.5† 13.8†	
							PUSH-PULL CLASS AB ₁ AMPLIFIER	400 400	-25.0 Self-bias	300 300	6.0 7.0	102.0 112.0	Self-Bias Resistor, 200 ohms.▲		—	—	6600 6600	34.0† 32.0†	
							PUSH-PULL CLASS AB ₂ AMPLIFIER	400 400	-20.0 -25.0	250 300	4.0 6.0	88.0 102.0	—		—	—	6000 3800	40.0† 60.0†	
							AMPLIFIER	For other characteristics, refer to Type 6L6.											
6L7	PENTAGRID MIXER A AMPLIFIER	C1	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 Conductance, 350 micromhos.					6L7	
							CLASS A AMPLIFIER	250	{ - 3.0 } min.¶	100	6.5	5.3	800000	1100	880	—	—		

6L7-G	PENTAGRID MIXERA AMPLIFIER	D8	G-7T ₁	H	6.3	0.3	MIXER AMPLIFIER	For other characteristics, refer to Type 6L7.										6L7-G
6N5	ELECTRON-RAY TUBE	D5	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, - 12.0 volts; Shadow Angle, 0°. Bias, 0 volts; Angle, 90°; Plate Current, 0.5 ma.										6N5
6N7	TWIN TRIODE AMPLIFIER	C2	8B	H	6.3	0.8	CLASS A AMPLIFIER (As Driver) ^o	250	- 5.0	—	—	6.0	11300	3100	35	20000	exceeds	6N7
							294	- 6.0	—	—	7.0	11000	3200	35	or more	0.4		
6N7-G	TWIN TRIODE AMPLIFIER	D10	G-8B ₁	H	6.3	0.8	CLASS B AMPLIFIER	250	0	—	—	Power Output is for one tube at stated plate-to-plate load.				8000	8.0	6N7-G
							300	0	—	—	10000	10.0						
6Q7	DUPLEX-DIODE HIGH-MU TRIODE	C1	7V	H	6.3	0.3	TRIODE UNIT AS CLASS A AMPLIFIER	100	- 1.5	—	—	0.35	87500	800	70	—	—	6Q7
							250	- 3.0	—	—	1.1	58000	1200	70	—	—		
6Q7-G	DUPLEX-DIODE HIGH-MU TRIODE	D8	G-7V ₁	H	6.3	0.3	90x Self-bias, 7600 ohms.	Grid Resistor, ** 0.5 megohm.				Gain per stage = 32		6Q7-G				
							300x Self-bias, 3000 ohms.	Gain per stage = 45										
6Q7-GT	DUPLEX-DIODE HIGH-MU TRIODE	C3	G-7V ₁	H	6.3	0.3	TRIODE UNIT AS CLASS A AMPLIFIER	100	0	—	—	2.3	43000	1400	60	—	—	6Q7-GT
							250	- 3.0	—	—	1.1	58000	1200	70	—	—		
6R7	DUPLEX-DIODE TRIODE	C1	7V	H	6.3	0.3	TRIODE UNIT AS CLASS A AMPLIFIER	250	- 9.0	—	—	9.5	8500	1900	16	—	—	6R7
							90x Self-bias, 4400 ohms.	Grid Resistor, ** 0.25 megohm.				Gain per stage = 10						
6R7-G	DUPLEX-DIODE TRIODE	D8	G-7V ₁	H	6.3	0.3	300x Self-bias, 3800 ohms.	Grid Resistor, ** 0.25 megohm.				Gain per stage = 10		6R7-G				
							For other characteristics, refer to Type 6R7.											
6S7	TRIPLE-GRID SUPER-CONTROL AMPLIFIER	C1	7R	H	6.3	0.15	CLASS A AMPLIFIER	135	{ - 3.0	67.5	0.9	3.7	—	1250	—	—	—	6S7
							250	{ min. }	100	2.0	8.5	1000000	1750	1750	—	—		
6S7-G	TRIPLE-GRID SUPER-CONTROL AMPLIFIER	D8	G-7R ₁	H	6.3	0.15	AMPLIFIER	For other characteristics, refer to Type 6S7.										6S7-G
6SA7	PENTAGRID CONVERTER	B3	8R	H	6.3	0.3	MIXER	100	- 2.0	100	8.0	3.2	500000	Grid #1 Resistor, 20000 ohms.				6SA7
							250	- 2.0	100	8.0	3.4	800000	Conversion Conductance, 450 micromhos.					
6SC7	TWIN TRIODE AMPLIFIER	B3	8S	H	6.3	0.3	EACH UNIT AS AMPLIFIER	250	- 2.0	—	—	2.0	53000	1325	70	—	—	6SC7
							250	- 2.0	—	—	0.9	66000	1500	100	—	—		
6SF5	HIGH-MU TRIODE	B3	8AB	H	6.3	0.3	CLASS A AMPLIFIER	90x Self-bias, 8800 ohms.	Grid Resistor, ** 0.5 megohm.				Gain per stage = 43		6SF5			
							300x Self-bias, 3200 ohms.	Gain per stage = 63										
6SJ7	TRIPLE-GRID DETECTOR AMPLIFIER	B3	8N	H	6.3	0.3	CLASS A AMPLIFIER	100	- 3.0	100	0.9	2.9	700000	1575	1100	—	—	6SJ7
							250	- 3.0	100	0.8	3.0	1500000	1650	2500	—	—		
6SK7	TRIPLE-GRID SUPER-CONTROL AMPLIFIER	B3	8N	H	6.3	0.3	CLASS A AMPLIFIER	100	{ - 3.0	100	2.6	8.9	250000	1900	475	—	—	6SK7
							250	{ min. }	100	2.4	9.2	800000	2000	1600	—	—		
6SQ7	DUPLEX-DIODE HIGH-MU TRIODE	B3	8Q	H	6.3	0.3	TRIODE UNIT AS CLASS A AMPLIFIER	250	- 2.0	—	—	0.8	91000	1100	100	—	—	6SQ7
							90x Self-bias, 11000 ohms.	Grid Resistor, ** 0.5 megohm.				Gain per stage = 40						
6T7-G	DUPLEX-DIODE HIGH-MU TRIODE	D8	G-7V ₁	H	6.3	0.15	TRIODE UNIT AS CLASS A AMPLIFIER	135	- 1.5	—	—	0.9	65000	1000	65	—	—	6T7-G
							250	- 3.0	—	—	1.2	62000	1050	65	—	—		

TYPE	NAME	DIMENSIONS SOCKET CONNECTIONS		CATHODE TYPE AND RATING		USE Values to right give operating conditions and characteristics for indicated typical use	PLATE SUP- PLY VOLTS	GRID BIAS VOLTS	SCREEN SUPPLY VOLTS	SCREEN CUR- RENT MA.	PLATE CUR- RENT MA.	A-C PLATE RESIS- TANCE OHMS	TRANS- CONDC- TANCE (GRID- PLATE) μMHOS	AMPLIFI- CATION FACTOR	LOAD FOR STATED POWER OUTPUT OHMS	POWER OUT- PUT WATTS	TYPE		
		DIMEN.	S. C.	C. T.	VOLTS													AMP.	
6U5/6G5	ELECTRON-RAY TUBE	D4	6R	H	6.3	0.3	Plate & Target Supply = 100 volts. Triode Plate Resistor = 0.5 meg. Target Current = 1.0 ma. Grid Bias, -8 volts; Shadow Angle, 0°. Bias, 0 volts; Angle, 90°; Plate Current, 0.19 ma. Plate & Target Supply = 250 volts. Triode Plate Resistor = 1.0 meg. Target Current = 4.0 ma. Grid Bias, -22 volts; Shadow Angle, 0°. Bias, 0 volts; Angle, 90°; Plate Current, 0.24 ma.										6U5/6G5		
6U7-G	TRIPLE-GRID SUPER-CONTROL AMPLIFIER	D8	G-7R†	H	6.3	0.3	CLASS A AMPLIFIER	100	{ - 3.0 min. }	100	2.2	8.0	250000	1500	375	—	—	6U7-G	
							MIXER IN SUPERHETERODYNE	250	-10.0	100	—	—	Oscillator Peak Volts = 7.0						
6V6	BEAM POWER AMPLIFIER	C2	7AC	H	6.3	0.45	SINGLE-TUBE CLASS A ₁ AMPLIFIER	180	- 8.5	180	3.0	29.0	—	—	—	—	5500	2.00	6V6
								250	-12.5	250	4.5	45.0	—	—	—	5000	4.25		
							PUSH-PULL CLASS AB ₁ AMPLIFIER	250	-15.0	250	5.0	70.0	—	—	—	10000	8.5†		
6V6-G	BEAM POWER AMPLIFIER	D10	G-7AC†	H	6.3	0.45	AMPLIFIER	For other characteristics, refer to Type 6V6.										6V6-G	
6W7-G	TRIPLE-GRID DETECTOR AMPLIFIER	D8	G-7R†	H	6.3	0.15	CLASS A AMPLIFIER	250	- 3.0	100	0.5	2.0	1500000	1225	1850	—	—	6W7-G	
6X5	FULL-WAVE RECTIFIER	C2	6S	H	6.3	0.6	Maximum A-C Voltage per Plate.....350 Volts, RMS Maximum D-C Output Current..... 75 Milliampères										6X5		
6X5-G	FULL-WAVE RECTIFIER	D3	G-6S†	H	6.3	0.6	For other ratings, refer to Type 6X5.										6X5-G		
6Y6-G	BEAM POWER AMPLIFIER	D10	G-7AC†	H	6.3	1.25	SINGLE-TUBE CLASS A ₁ AMPLIFIER	135	-13.5	135	3.0	58.0	—	—	—	2000	3.6	6Y6-G	
								200	-14.0	135	2.2	60.0	—	—	—	2600	6.0		
6Z7-G	TWIN TRIODE AMPLIFIER	D3	G-8B†	H	6.3	0.3	CLASS B AMPLIFIER	135	0	—	—	Power Output is for one tube at stated plate-to-plate load.				9000	2.5	6Z7-G	
								180	0	—	—	—	—	—	12000	4.2			
6ZY5-G	FULL-WAVE RECTIFIER	D3	G-6S†	H	6.3	0.3	Maximum A-C Voltage per Plate.....350 Volts, RMS Maximum D-C Output Current..... 35 Milliampères										6ZY5-G		
10	POWER AMPLIFIER TRIODE	E4	4D	F	7.5	1.25	CLASS A AMPLIFIER	350	-32.0	—	—	16.0	5150	1550	8.0	11000	0.9	10	
								425	-40.0	—	—	18.0	5000	1600	8.0	10200	1.6		
11	DETECTOR + AMPLIFIER	D2	4F	D.C.	1.1	0.25	CLASS A AMPLIFIER	90	- 4.5	—	—	2.5	15500	425	6.6	—	—	11	
12	TRIODE	D11	4D	F															135
12A8-GT	PENTAGRID CONVERTER	C3	G-8A†	H	12.6	0.15	CONVERTER	For other characteristics, refer to Type 6A8.										12A8-GT	
12C8	DUPLEX-DIODE PENTODE	C1	8E	H	12.6	0.15	PENTODE UNIT AS AMPLIFIER	For other characteristics, refer to Type 6B8.										12C8	
12K7-GT	TRIPLE-GRID SUPER-CONTROL AMPLIFIER	C3	G-7R†	H	12.6	0.15	AMPLIFIER	For other characteristics, refer to Type 6K7-GT.										12K7-GT	
12Q7-GT	DUPLEX-DIODE HIGH-MU TRIODE	C3	G-7V†	H	12.6	0.15	TRIODE UNIT AS AMPLIFIER	For other characteristics, refer to Type 6Q7-GT.										12Q7-GT	
12SA7	PENTAGRID CONVERTER	B3	8R	H	12.6	0.15	MIXER	For other characteristics, refer to Type 6SA7.										12SA7	
12SC7	TWIN TRIODE AMPLIFIER	B3	8S	H	12.6	0.15	AMPLIFIER	For other characteristics, refer to Type 6SC7.										12SC7	
12SJ7	TRIPLE-GRID DETECTOR AMPLIFIER	B3	8N	H	12.6	0.15	AMPLIFIER	For other characteristics, refer to Type 6SJ7.										12SJ7	

12SK7	TRIPLE-GRID SUPER-CONTROL AMPLIFIER	B3	8N	H	12.6	0.15	AMPLIFIER	For other characteristics, refer to Type 6SK7.										12SK7
12SQ7	DUPLEX-DIODE HIGH-MU TRIODE	B3	8Q	H	12.6	0.15	TRIODE UNIT AS AMPLIFIER	For other characteristics, refer to Type 6SQ7.										12SQ7
12Z3	HALF-WAVE RECTIFIER	D5	4G	H	12.6	0.3		Maximum A-C Plate Voltage.....250 Volts, RMS Maximum D-C Output Current.....60 Milliamperes										12Z3
15	R-F 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	450 600	—	—	15
19	TWIN TRIODE AMPLIFIER	D5	6C	D.C. F	2.0	0.26	AMPLIFIER	For other characteristics, refer to Type 1J6-G.										19
20	POWER AMPLIFIER TRIODE	D2	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	20
22	R-F AMPLIFIER TETRODE	E1	4K	D.C. F	3.3	0.132	SCREEN-GRID R-F AMPLIFIER	135 135	- 1.5 - 1.5	45 67.5	0.6* 1.3*	1.7 3.7	725000 325000	375 500	270 160	—	—	22
24-A	R-F AMPLIFIER TETRODE	E1	5E	H	2.5	1.75	SCREEN-GRID R-F AMPLIFIER	180 250	- 3.0 - 3.0	90 90	1.7* 1.7*	4.0 4.0	400000 600000	1000 1050	400 630	—	—	24-A
							BIAS DETECTOR	250	{ - 5.0 approx. }	20 to 45	Plate current to be adjusted to 0.1 milliamperes with no signal.							
25A6	POWER AMPLIFIER PENTODE	C2	7S	H	25.0	0.3	CLASS A AMPLIFIER	95 180	- 15.0 - 20.0	95 135	4.0 7.5	20.0 38.0	45000 40000	2000 2500	90 100	4500 5000	0.9 2.75	25A6
25A6-G	POWER AMPLIFIER PENTODE	D10	G-7S†	H	25.0	0.3	AMPLIFIER	For other characteristics, refer to Type 25A6.										25A6-G
25A7-G	RECTIFIER-PENTODE	D10	8F	H	25.0	0.3	PENTODE UNIT AS CLASS A AMPLIFIER	100	- 15.0	100	4.0	20.5	50000	1800	90	4500	0.77	25A7-G
							HALF-WAVE RECTIFIER	Maximum A-C Voltage.....125 Volts, RMS Maximum D-C Output Current.....75 Milliamperes										
25B6-G	POWER AMPLIFIER PENTODE	D10	G-7S†	H	25.0	0.3	CLASS A AMPLIFIER	95 135	- 15.0 - 22.0	95 135	1.5 2.5	41.0 61.0	— —	4600 5000	75 75	2000 1700	1.9 4.3	25B6-G
25L6	BEAM POWER AMPLIFIER	C2	7AC	H	25.0	0.3	SINGLE-TUBE CLASS A ₁ AMPLIFIER	110 110	- 7.5 - 7.5	110 110	4.0 4.0	49.0 49.0	10000 10000	8200 8200	82 82	1500 2000	2.1 2.2	25L6
25L6-G	BEAM POWER AMPLIFIER	D10	G-7AC†	H	25.0	0.3	AMPLIFIER	For other characteristics, refer to Type 25L6.										25L6-G
25L6-GT	BEAM POWER AMPLIFIER	C3	G-7AC†	H	25.0	0.3	AMPLIFIER	For other characteristics, refer to Type 25L6.										25L6-GT
25Z5	RECTIFIER-DOUBLER	D5	6E	H	25.0	0.3	VOLTAGE DOUBLER	Maximum A-C Voltage per Plate.....125 Volts, RMS Maximum D-C Output Current.....100 Milliamperes										25Z5
							HALF-WAVE RECTIFIER	Maximum A-C Voltage per Plate.....250 Volts, RMS Maximum D-C Output Current per Plate.....85 Milliamperes										
25Z6	RECTIFIER-DOUBLER	C2	7Q	H	25.0	0.3	VOLTAGE DOUBLER	Maximum A-C Voltage per Plate.....125 Volts, RMS Maximum D-C Output Current.....85 Milliamperes										25Z6
							HALF-WAVE RECTIFIER	Maximum A-C Voltage per Plate.....250 Volts, RMS Maximum D-C Output Current per Plate.....85 Milliamperes										
25Z6-G	RECTIFIER-DOUBLER	D3	G-7Q†	H	25.0	0.3	RECTIFIER-DOUBLER	For other characteristics, refer to Type 25Z6.										25Z6-G
25Z6-GT	RECTIFIER-DOUBLER	C3	G-7Q†	H	25.0	0.3	VOLTAGE DOUBLER	Maximum A-C Voltage per Plate.....125 Volts, RMS Maximum D-C Output Current.....85 Milliamperes										25Z6-GT
							HALF-WAVE RECTIFIER	Maximum A-C Voltage per Plate.....125 Volts, RMS Maximum D-C Output Current per Plate.....85 Milliamperes										
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	—	—	26

TYPE	NAME	DIMENSIONS SOCKET CONNECTIONS		CATHODE TYPE AND RATING			USE Values to right give operating conditions and characteristics for indicated typical use	PLATE SUP- PLY VOLTS	GRID BIAS ■ VOLTS	SCREEN SUPPLY VOLTS	SCREEN CUR- RENT MA.	PLATE CUR- RENT MA.	A-C PLATE RESIS- TANCE OHMS	TRANS- CONDUCT- ANCE (GRID- PLATE) μMHOS	AMPLIFI- CATION FACTOR	LOAD FOR STATED POWER OUTPUT OHMS	POWER OUT- PUT WATTS	TYPE
		DIMEN.	S. C.	C. T.	VOLTS	AMP.												
27	DETECTOR★ AMPLIFIER TRIODE	D5	5A	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	—	—	27
							BIAS DETECTOR	250	{ -30.0 } { approx. }	—	—	Plate current to be adjusted to 0.2 milliamperes with no signal.						
30	DETECTOR★ AMPLIFIER TRIODE	D5	4D	F	2.0	0.06	AMPLIFIER	For other characteristics, refer to Type 1H4-G.										30
31	POWER AMPLIFIER TRIODE	D5	4D	F	2.0	0.13	CLASS A AMPLIFIER	135 180	-22.5 -30.0	—	—	8.0 12.3	4100 3600	925 1050	3.8 3.8	7000 5700	0.185 0.375	31
							SCREEN-GRID R-F AMPLIFIER	135 180	- 3.0 - 3.0	67.5 67.5	0.4* 0.4*	1.7 1.7	950000 1200000	640 650	610 780	—	—	
32	R-F AMPLIFIER TETRODE	E1	4K	F	2.0	0.06	BIAS DETECTOR	180	{ - 6.0 } { approx. }	67.5	—	Plate current to be adjusted to 0.2 milliamperes with no signal.						32
33	POWER AMPLIFIER PENTODE	D12	5K	F	2.0	0.26	CLASS A AMPLIFIER	180	-18.0	180	5.0	22.0	55000	1700	90	6000	1.4	33
34	SUPER-CONTROL R-F AMPLIFIER PENTODE	E1	4M	D.C. F	2.0	0.06	SCREEN-GRID R-F AMPLIFIER	135 180	{ - 3.0 } { min. }	67.5 67.5	1.0 1.0	2.8 2.8	600000 1000000	600 620	360 620	—	—	34
35	SUPER-CONTROL R-F AMPLIFIER TETRODE	E1	5E	H	2.5	1.75	SCREEN-GRID R-F AMPLIFIER	180 250	{ - 3.0 } { min. }	90 90	2.5* 2.5*	6.3 6.5	300000 400000	1020 1050	305 420	—	—	35
35L6-GT	BEAM POWER AMPLIFIER	C3	G-7AC	H	35.0	0.15	SINGLE-TUBE CLASS A AMPLIFIER	110	- 7.5	110	3.0	40.0	13800	5800	80	2500	1.5	35L6-GT
35Z4-GT	HALF-WAVE RECTIFIER	C3	G-5AA	H	35.0	0.15	A-C Plate Voltage (Volts, RMS).....125 D-C Output Current (Maximum Ma.).....100										35Z4-GT	
36	R-F AMPLIFIER TETRODE	D9	5E	H	6.3	0.3	SCREEN-GRID R-F AMPLIFIER	100 250	- 1.5 - 3.0	55 90	— 1.7*	1.8 3.2	550000 550000	850 1080	470 595	—	—	36
							BIAS DETECTOR	100 250	- 5.0 - 8.0	55 90	—	Grid-bias values are approximate. Plate current to be adjusted to 0.1 milliamperes with no signal.						
37	DETECTOR★ AMPLIFIER TRIODE	D5	5A	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	—	—	37
							BIAS DETECTOR	90 250	-10.0 -28.0	—	—	Grid-bias values are approximate. Plate current to be adjusted to 0.2 milliamperes 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	120 120	15000 10000	0.27 2.50	38
39/44	SUPER-CONTROL R-F AMPLIFIER 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	375000 1000000	960 1050	360 1050	—	—	39/44
40	VOLTAGE AMPLIFIER 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	—	—	40
41	POWER AMPLIFIER PENTODE	D5	6B	H	6.3	0.4	AMPLIFIER	For other characteristics, refer to Type 6K6-G.										41
42	POWER AMPLIFIER PENTODE	D12	6B	H	6.3	0.7	AMPLIFIER	For other characteristics, refer to Type 6F6.										42

43	POWER AMPLIFIER PENODE	D12	6B	H	25.0	0.3	AMPLIFIER	For other characteristics, refer to Type 25A6.										43
45	POWER AMPLIFIER TRIODE	D12	4D	F	2.5	1.5	CLASS A AMPLIFIER	180	-31.5	—	—	31.0	1650	2125	3.5	2700	0.82	
							275	-56.0	—	—	36.0	1700	2050	3.5	4600	2.00		
46	DUAL-GRID POWER AMPLIFIER	E3	5C	F	2.5	1.75	PUSH-PULL CLASS AB ₂ AMPLIFIER	275	Self-bias, 775 ohms			36.0	—	—	—	—	5060	12.0†
							275	-68.0 volts, fixed bias			28.0	—	—	—	—	3200	18.0†	
47	POWER AMPLIFIER PENODE	E3	5B	F	2.5	1.75	CLASS A AMPLIFIER □	250	-33.0	—	—	22.0	2380	2350	5.6	6400	1.25	
							CLASS B AMPLIFIER ♦	300	0	—	—	8.0	—	—	—	5200	16.0†	
48	POWER AMPLIFIER TETRODE	E3	6A	D.C. H	30.0	0.4	CLASS A AMPLIFIER	125	-20.0	100	9.5	56.0	—	3900	—	1500	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	F1	4D	F	7.5	1.25	CLASS A AMPLIFIER	300	-54.0	—	—	35.0	2000	1900	3.8	4600	1.6	
							400	-70.0	—	—	55.0	1800	2100	3.8	3670	3.4		
							450	-84.0	—	—	—	55.0	1800	2100	3.8	4350	4.6	
53	TWIN TRIODE AMPLIFIER	D12	7B	H	2.5	2.0	AMPLIFIER	For other characteristics, refer to Type 6N7.										53
55	DUPLEX-DIODE TRIODE	D9	6G	H	2.5	1.0	TRIODE UNIT AS AMPLIFIER	For other characteristics, refer to Type 85.										55
56	SUPER-TRIODE AMPLIFIER DETECTOR★	D5	5A	H	2.5	1.0	AMPLIFIER DETECTOR	For other characteristics, refer to Type 76.										56
57	TRIPLE-GRID DETECTOR AMPLIFIER	D13	6F	H	2.5	1.0	AMPLIFIER DETECTOR	For other characteristics, refer to Type 6J7.										57
58	TRIPLE-GRID SUPER-CONTROL AMPLIFIER	D13	6F	H	2.5	1.0	AMPLIFIER MIXER	For other characteristics, refer to Type 6U7-G.										58
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	
							PENODE ** CLASS A AMPLIFIER	250	-18.0	250	9.0	35.0	40000	2500	100	6000	3.0	
							TETRODE ‡ CLASS B AMPLIFIER	300	0	—	—	20.0	—	—	—	4600	15.0†	
							400	0	—	—	26.0	—	—	—	6000	20.0†		
71-A	POWER AMPLIFIER TRIODE	D12	4D	F	5.0	0.25	CLASS A AMPLIFIER	90	-19.0	—	—	10.0	2170	1400	3.0	3000	0.125	
							180	-43.0	—	—	20.0	1750	1700	3.0	4800	0.790		
75	DUPLEX-DIODE HIGH- μ TRIODE	D9	6G	H	6.3	0.3	AMPLIFIER	For other characteristics, refer to Type 6SQ7.										75
76	SUPER-TRIODE AMPLIFIER DETECTOR★	D5	5A	H	6.3	0.3	CLASS A AMPLIFIER	100	-5.0	—	—	2.5	12000	1150	13.8	—	—	
							250	-13.5	—	—	5.0	9500	1450	13.8	—	—		
							90	Self-bias, 6500 ohms.			Grid Resistor, ** 0.25 megohm.			Gain per stage = 9				
							300	Self-bias, 6400 ohms.			Plate current to be adjusted to 0.2 milliamperes with no signal.			Gain per stage = 10				
							BIAS DETECTOR	250	(-20.0 approx.)	—	—	—	—	—	—	—	—	
77	TRIPLE-GRID DETECTOR AMPLIFIER	D9	6F	H	6.3	0.3	CLASS A AMPLIFIER	100	-1.5	60	0.4	1.7	650000	1100	715	—	—	
							250	-3.0	100	0.5	2.3	1500000	1250	1500	—	—		
							BIAS DETECTOR	250	-1.95	50	Cathode current 0.65 ma.		Plate Resistor, 250000 ohms. Grid Resistor, ** 250000 ohms.					

TYPE	NAME	DIMENSIONS SOCKET CONNECTIONS		CATHODE TYPE AND RATING		USE Values to right give operating conditions and characteristics for indicated typical use	PLATE SUPPLY VOLTS	GRID BIAS MA VOLTS	SCREEN SUPPLY VOLTS	SCREEN CURRENT MA.	PLATE CURRENT MA.	A-C PLATE RESISTANCE OHMS	TRANS-CONDUCTANCE (GRID-PLATE) UMHOS	AMPLIFICATION FACTOR	LOAD FOR STATED POWER OUTPUT OHMS	POWER OUTPUT WATTS	TYPE	
		DIMEN.	S. C.	C. T.	VOLTS													AMP.
78	TRIPLE-GRID SUPER-CONTROL AMPLIFIER	D9	8F	H	6.3	0.3												78
79	TWIN TRIODE AMPLIFIER	D9	6H	H	6.3	0.6	180 250	0 0	—	—								79
80	FULL-WAVE RECTIFIER	D12	4C	F	5.0	2.0												80
81	HALF-WAVE RECTIFIER	F1	4B	F	7.5	1.25												81
82	FULL-WAVE RECTIFIER	D12	4C	F	2.5	3.0												82
83	FULL-WAVE RECTIFIER	E3	4C	F	5.0	3.0												83
83-v	FULL-WAVE RECTIFIER	D12	4L	H	5.0	2.0												83-v
84/624	FULL-WAVE RECTIFIER	D5	5D	H	6.3	0.5												84/624
85	DUPLEX-DIODE TRIODE	D9	6G	H	6.3	0.3	135 250	-10.5 -20.0	—	—	3.7 8.0	11000 7500	750 1100	8.3 8.3	25000 20000	0.075 0.350		85
89	TRIPLE-GRID POWER AMPLIFIER	D9	8F	H	6.3	0.4	160 250	-20.0 -31.0	—	—	17.0 32.0	3300 2600	1425 1800	4.7 4.7	7000 5500	0.30 0.90		89
							100 250	-10.0 -25.0	100 250	1.6 5.5	9.5 32.0	104000 70000	1200 1800	125 125	10700 6750	0.33 3.40		89
							180	0	—	—	6.0	—	—	—	13600 9400	2.50 3.50†		89
V-99 X-99	DETECTOR AMPLIFIER TRIODE	C4 D1	4E 4D	D.C. F	3.3	0.063	90	-4.5	—	—	2.5	15500	425	6.6	—	—		V-99 X-99
112-A	DETECTOR AMPLIFIER TRIODE	D12	4D	D.C. F	5.0	0.25	90 180	-4.5 -13.5	—	—	5.0 7.7	5400 4700	1575 1800	8.5 8.5	—	—		112-A
874	VOLTAGE REGULATOR	E4	4S	—	—	—												874
876	CURRENT REGULATOR	G1	—	F	—	—												876
886	CURRENT REGULATOR	G1	—	F	—	—												886

For additional types refer to Supplementary Australian and Supplementary General Types.

NOTE:— -GT types not included in this Chart have electrical characteristics identical with equivalent -G types.

SUPPLEMENTARY GENERAL TYPES

1A7-GT	PENTAGRID CONVERTER	C3	G-7Z	D.C. F	1.4	0.05	CONVERTER	For other characteristics, refer to Type 1A7-G.										1A7-GT
1G4-G	DETECTOR AMPLIFIER TRIODE	D1	G-5S	D.C. F	1.4	0.05	CLASS A AMPLIFIER	90	—6.0	—	—	2.3	10,700	825	8.8	—	—	1G4-G
1H5-GT	DIODE HIGH-MU TRIODE	C3	G-5Z	D.C. F	1.4	0.05	AMPLIFIER	For other characteristics, refer to Type 1H5-G.										1H5-GT
1N5-GT	R-F AMPLIFIER PENTODE	C3	G-5Y	D.C. F	1.4	0.05	AMPLIFIER	For other characteristics, refer to Type 1N5-G.										1N5-GT
1Q5-GT	BEAM POWER AMPLIFIER	C3	G-6AF	D.C. F	1.4	0.10	CLASS A AMPLIFIER	90	—4.5	90	1.6	9.5	—	2100	—	8,000	0.27	1Q5-GT
6AB7/1853	TRIPLE-GRID SUPER-CONTROL AMPLIFIER	B3	8N	H	6.3	0.45	CLASS A AMPLIFIER	300 300	{—3.0} min. }	200 300 Δ	3.2 3.2	12.5 12.5	700,000 700,000	5000 5000	3500 3500	—	—	6AB7/1853
6AC7/1852	TRIPLE-GRID DETECTOR AMPLIFIER	B3	8N	H	6.3	0.45	CLASS A AMPLIFIER	300 300	{Self-bias 160 ohms min. }	150 300 ▽	2.5 2.5	10.0 10.0	750,000 750,000	9000 9000	6750 6750	—	—	6AC7/1852
6F5-GT	HIGH-MU TRIODE	C3	G-5M‡	H	6.3	0.3	AMPLIFIER	For other characteristics, refer to Type 6F5.										6F5-GT
6J5-GT	DETECTOR AMPLIFIER TRIODE	C3	G-6Q‡	H	6.3	0.3	AMPLIFIER	For other characteristics, refer to Type 6J5.										6J5-GT
6J7-GT	TRIPLE-GRID DETECTOR AMPLIFIER	C3	G-7R‡∞	H	6.3	0.3	AMPLIFIER DETECTOR	For other characteristics, refer to Type 6J7.										6J7-GT
6J8-G	TRIODE-HEPTODE CONVERTER	C3	G-8H	H	6.3	0.3	TRIODE UNIT AS OSCILLATOR HEPTODE UNIT AS MIXER	250	Triode-Grid Resistor			5.0	Triode-Grid & Heptode-Grid Current, 0.4 ma.				6J8-G	
							250	—3	100	2.9	1.3	4,000,000	Conversion Conductance, 290 micromhos					
6K6-GT	POWER AMPLIFIER PENTODE	C3	G-7S‡	H	6.3	0.4	AMPLIFIER	For other characteristics, refer to Type 6K6-G.										6K6-GT
6V6-GT	BEAM POWER AMPLIFIER	C3	G-7AC‡	H	6.3	0.45	AMPLIFIER	For other characteristics, refer to Type 6V6.										6V6-GT
12J7-GT	TRIPLE-GRID DETECTOR AMPLIFIER	C3	G-7R‡∞	H	12.6	0.15	AMPLIFIER DETECTOR	For other characteristics, refer to Type 6J7.										12J7-GT
35Z5-GT	HALF-WAVE RECTIFIER	C3	G-6ADΔΔ	H	35.0	0.15	Maximum A-C Plate Voltage...125 Volts, RMS. Maximum D-C Output Current, without Pilot Lamp and no Plate-to-Heater Connection, 100 Milliamps. Lamp (6.3V, 0.15A.), and Plate-to-Heater Connection, 50 Milliamps.										35Z5-GT	
50L6-GT	BEAM POWER AMPLIFIER	D9	G-7AC‡	H	50.0	0.15	CLASS A AMPLIFIER	110	—7.5	110	4.0	43.0	10,000	6800	68	2,000	1.75	50L6-GT
VR105-30	VOLTAGE REGULATOR	D3	G-5AB	—	—	—	Minimum D-C Starting Supply Voltage...137 Volts. D-C Operating Voltage.....105 Volts.					Minimum D-C Operating Current... 5 ma. Maximum D-C Operating Current...30 ma.					VR105-30	
VR150-30	VOLTAGE REGULATOR	D3	G-5AB	—	—	—	Minimum D-C Starting Supply Voltage...180 Volts. D-C Operating Voltage.....150 Volts.					Minimum D-C Operating Current... 5 ma. Maximum D-C Operating Current...30 ma.					VR150-30	
302	CURRENT REGULATOR	E2A	▲▲	—	—	F	Voltage Range112—195 Volts.					Operating Current0.3 ampere					302	

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

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

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

> Mercury-Vapour Type.

■ Grid #1 is control grid. Grid #2 is screen. Grid #3 tied to cathode.

☐ Grid #1 is control grid. Grids #2 and #3 tied to plate.

☐ Grids #1 and #2 connected together. Grid #3 tied to plate.

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

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

** For grid of following tube.

○ Both grids connected together; likewise, both plates.

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

♣ For two tubes.

‡ This diagram is like the one having the same designation without the prefix G, except that Pin No. 1 has no connection.

◆ This diagram is like the one having the same designation without the prefix G, except that Pin No. 2 is omitted and Pin No. 1 has no connection.

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

∞ The diagram for this type is the same as that of the designation shown, except that Pin No. 1 is also connected to the Base Sleeve.

△△ This type is fitted with a tapped heater for pilot lamp operation.

▲▲ This type is fitted with Standard Edison Screw Base.

‡‡ This diagram is like the one having the same designation without the prefix G, except that Pin No. 1 is connected to internal shield.

● Applied through plate resistor of 250000 ohms or 500-henry choke shunted by 0.25-megohm resistor.

♥ Applied through plate resistor of 100000 ohms.

✖ Applied through plate resistor of 250000 ohms.

*Maximum.

○ 50000 ohms.

§Megohms.

☞ Requires different socket from small 7-pin.

☐ Grid #2 tied to plate. Grids #1 and #2 tied together.

☐ Plate voltages greater than 125 volts RMS require 100-ohm (minimum) series-plate resistor.

○ Applied through plate resistor of 150000 ohms.

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

▣ Applied through 200000-ohm plate resistor.

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

Note 2: Subscript 1 on class of amplifier service (as AB₁) indicates that grid current does not flow during any part of input cycle. Subscript 2 on class of amplifier service (AB₂) indicates that grid current flows during some part of the input cycle.

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

☒ Following grid resistor 500000 ohms.

⊗ Following grid resistor 1000000 ohms.

▲ Applied through 30000-ohm screen-dropping resistor.

▼ Applied through 60000-ohm screen-dropping resistor.

☐ Hexode screen and triode plate supply voltage should be applied through common 15000-ohm voltage-dropping resistor from a 250 volt D.C. source.

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
A1	1 $\frac{3}{4}$ " x 1 $\frac{5}{16}$ "	C3	3 $\frac{5}{16}$ " x 1 $\frac{5}{16}$ "	D5	4 $\frac{3}{16}$ " x 1 $\frac{9}{16}$ "	D11	4 $\frac{11}{16}$ " x 1 $\frac{7}{16}$ "	E3	5 $\frac{3}{8}$ " x 2 $\frac{1}{16}$ "
B1	2 $\frac{5}{8}$ " x 1 $\frac{1}{16}$ "	C4	3 $\frac{1}{2}$ " x 1 $\frac{1}{16}$ "	D6	4 $\frac{5}{16}$ " x 1 $\frac{3}{16}$ "	D12	4 $\frac{11}{16}$ " x 1 $\frac{13}{16}$ "	E4	5 $\frac{5}{8}$ " x 2 $\frac{3}{16}$ "
B2	2 $\frac{5}{16}$ " x 1 $\frac{3}{16}$ "	D1	4" x 1 $\frac{3}{16}$ "	D7	4 $\frac{5}{16}$ " x 1 $\frac{9}{16}$ "	D13	4 $\frac{11}{16}$ " x 1 $\frac{9}{16}$ "	F1	6 $\frac{1}{4}$ " x 2 $\frac{7}{16}$ "
B3	2 $\frac{5}{8}$ " x 1 $\frac{1}{16}$ "	D2	4 $\frac{1}{8}$ " x 1 $\frac{3}{16}$ "	D8	4 $\frac{13}{16}$ " x 1 $\frac{9}{16}$ "	E1	5 $\frac{1}{32}$ " x 1 $\frac{13}{16}$ "	G1	8" x 2 $\frac{1}{16}$ "
C1	3 $\frac{1}{2}$ " x 1 $\frac{1}{16}$ "	D3	4 $\frac{1}{8}$ " x 1 $\frac{9}{16}$ "	D9	4 $\frac{13}{16}$ " x 1 $\frac{9}{16}$ "	E2	5 $\frac{5}{16}$ " x 2 $\frac{1}{16}$ "		
C2	3 $\frac{1}{4}$ " x 1 $\frac{5}{16}$ "	D4	4 $\frac{3}{16}$ " x 1 $\frac{3}{16}$ "	D10	4 $\frac{5}{8}$ " x 1 $\frac{13}{16}$ "	E2A	5 $\frac{5}{16}$ " x 2 $\frac{1}{16}$ "		

SOCKET CONNECTIONS

Bottom Views

KEY TO TERMINAL DESIGNATIONS OF SOCKETS

Alphabetical subscripts D, P, T, and HX indicate, respectively, diode unit, pentode unit, triode unit, and hexode unit in multi-unit types.

BP = Bayonet Pin

F = Filament

G = Grid

RC = Ray-Control Electrode

H = Heater

K = Cathode

NC = No Connection

HL = Heater Tap

P = Plate (Anode)

P₁ = Starter-Anode

P_{BF} = Beam-Forming Plates

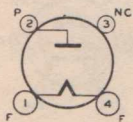
BS = Base Sleeve

S = Shell

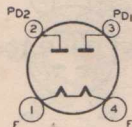
TA = Target

● = Gas-Type Tube

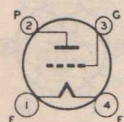
U = Unit



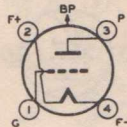
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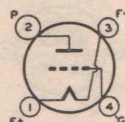
4C



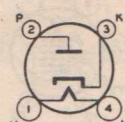
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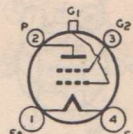
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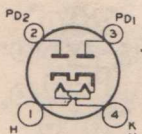
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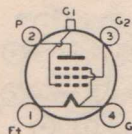
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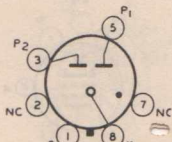
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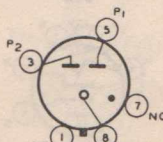
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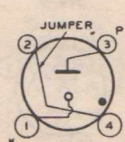
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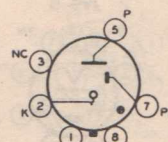
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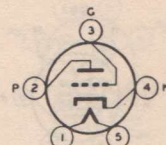
G-4R



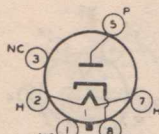
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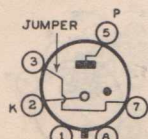
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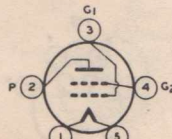
5A



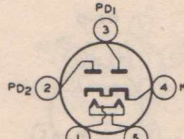
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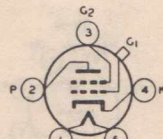
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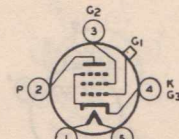
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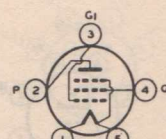
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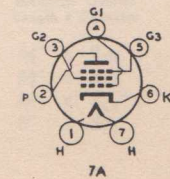
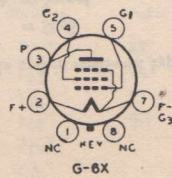
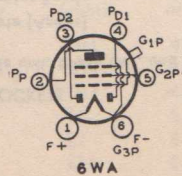
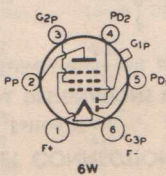
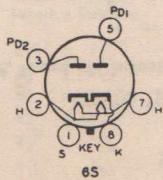
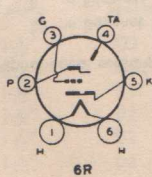
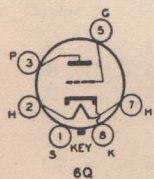
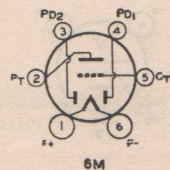
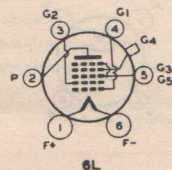
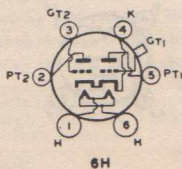
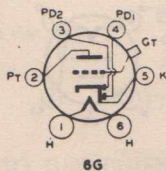
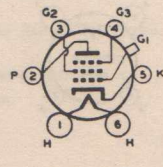
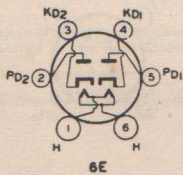
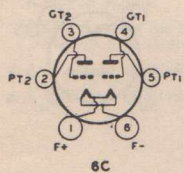
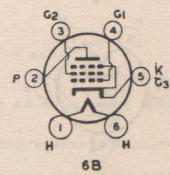
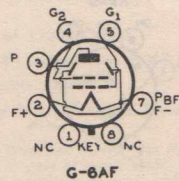
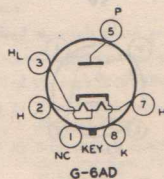
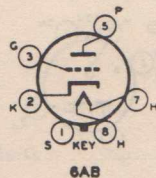
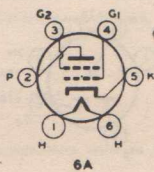
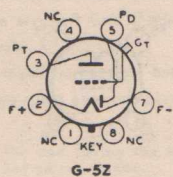
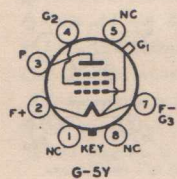
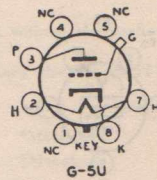
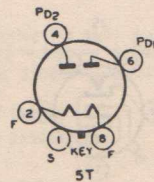
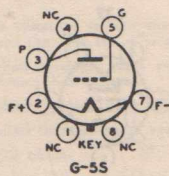
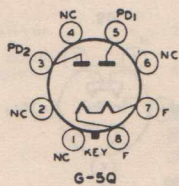
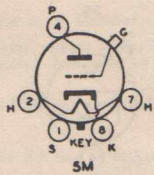
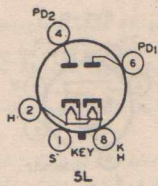
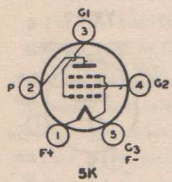
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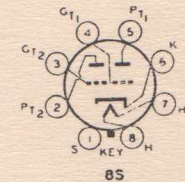
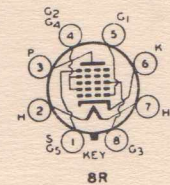
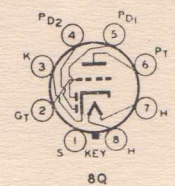
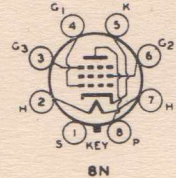
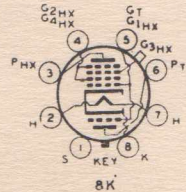
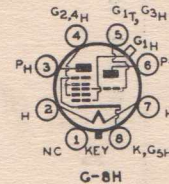
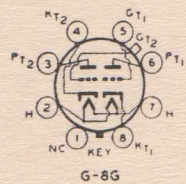
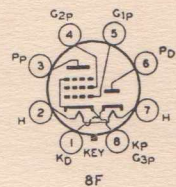
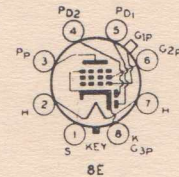
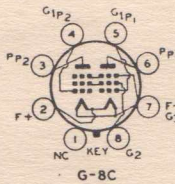
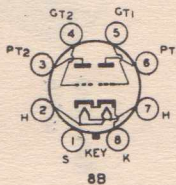
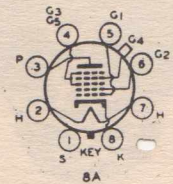
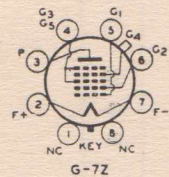
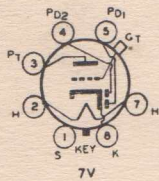
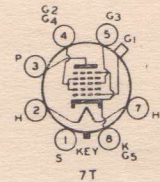
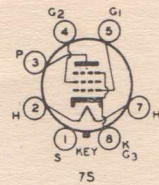
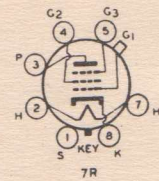
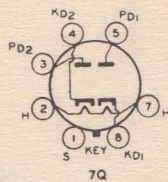
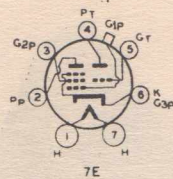
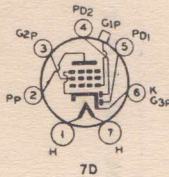
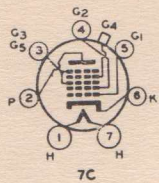
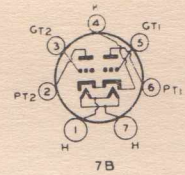
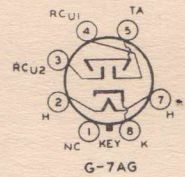
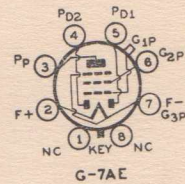
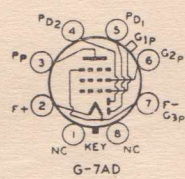
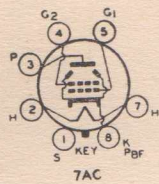
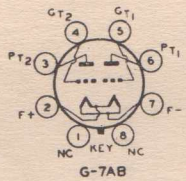
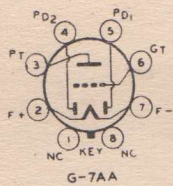


5F



5K





Revalve
with



Radiotrons

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