

AWV *Radiotron*
CHARACTERISTICS CHART
RECEIVING TYPES

INCORPORATING: CLASSIFICATION TABLES • VALVE SOCKET CONNECTIONS • SUBSTITUTION DIRECTORY

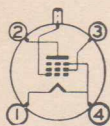
VALVE CLASSIFICATION CHART

CATHODE VOLTS		1.4	2.0	2.5-5.0	6.3	A-C/D-C	
RECTIFIERS.							
HALF-WAVE	High-Vacuum				5U4-G/U52 { 5Y3-GT } 80 { 5V4-G } { 83-V } 5R4-GY	6X5-GT 6X4	
FULL-WAVE	High-Vacuum					U76	
DIODE DETECTORS.							
TWO DIODES					6H6-GT 6AL5/D77		
POWER AMPLIFIERS.							
TRIODES	Low- μ	Single Unit			45		
	High- μ	Twin Unit		{ 1J6-G } 19			
BEAM TUBES	Single Unit		1Q5-GT			6V6-GT 6AQ5	
PENTODES	Single Unit		3S4 3V4	{ 1D4 } { 1L5-G }	2A5 47	{ 42 } { 6F6-G } KT61	
CONVERTERS & MIXERS.							
CONVERTERS	Pentagrid		1A7-GT 1R5	{ 1C6 } { 1C7-G }		(6A7, 6A8-G) 6BE6 6SA7-GT	
	Triode Heptodes and Hexodes					6J8-GA X61M	X76M
VOLTAGE AMPLIFIERS with and without Diode Detectors.							
TRIODES	Medium- μ	Single Unit		{ 1H4-G } { 30 }			
		with two Diodes		1H6-G			
	High- μ	Twin Unit				6SN7-GT 6J6	
		with Diode	1H5-GT				
PENTODES	Remote Cut-off	Single Unit	1T4 1P5-GT	{ 1A4-P } { 1D5-GP } (1M5-G, 1C4)	58	{ 6D6 } { 6U7-G } 6SK7-GT	W76
		with Diode					
		with two Diodes					{ 6B7S } { 6G8-G } 6AR7-GT
	Semi-Remote Cut-off	Single Unit					6BA6
		with two Diodes					{ 6B7 } { 6B8-G }
	Sharp Cut-off	Single Unit			{ 1K4 } { 1K5-G }	57	(6J7-G, 6C6) 6AU6 6SJ7-GT 6J7-G/1620
with Diode		1S5		{ 1K6 } { 1K7-G }			
TUNING INDICATOR						Y61	
BARRETTERS	150 mA					161	
	300 mA					302	

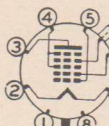
RADIOTRON RECEIVING VALVES

1A4-P to 1K5-G

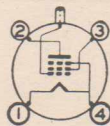
TYPE	NAME	DIMENSIONS <i>Maximum Overall Length x Diam.</i>	CATHODE TYPE AND RATING			USE <i>Values to right give operating conditions and characteristics for indicated typical use</i>	PLATE SUPPLY Volts	GRID BIAS Volts	SCREEN CURRENT Volts	Screen Current mA	PLATE CURRENT mA	A-C PLATE RESISTANCE Ohms	TRANS-CONDUCTANCE (or conv. cond.) μ mhos	Amplification Factor	LOAD For Stated Power Output Ohms	POWER OUTPUT Watts		
			C.T.	Volts	Amp.													
1A4-P	REMOTE CUT-OFF PENTODE	4 1/8" x 1 9/16"	D.C. F.	2.0	0.06	Amplifier	90 180	{ -3.0 } min.	67.5 67.5	0.9 0.8	2.2 2.3	600,000 1,000,000	720 750	—	—	—		
1A7-GT	PENTAGRID CONVERTER	3 5/16" x 1 5/16"	D.C. F.	1.4	0.05	Converter	90	0	45*	0.6	0.55	600,000	250	Anode-Grid (No. 2): 90 max. volts, 1.2 mA. Oscillator-Grid (No. 1) Resistor 0.2 meg. Oscillator-Grid Current 0.035 mA. *Screen voltage obtained preferably by using 70,000 ohm voltage dropping resistor in series with 90-volt supply.				
1C4	REMOTE CUT-OFF PENTODE	4 1/8" x 1 9/16"	D.C. F.	2.0	0.12	Amplifier	135 135 135	0 0 -3.0	45 67.5 90	0.5 0.9 0.5	1.25 2.5 1.5	1,560,000 800,000 1,850,000	780 1,000 700	—	—	—		
1C6	PENTAGRID CONVERTER	4 1/8" x 1 9/16"	D.C. F.	2.0	0.12	Converter	For other characteristics refer to Type 1C7-G below.											
1C7-G	PENTAGRID CONVERTER	4 1/8" x 1 9/16"	D.C. F.	2.0	0.12	Converter	135 135 180	-3.0 -3.0 -3.0	67.5 67.5 67.5	2.5 2.2 2.0	1.3 1.5 1.5	600,000 700,000 700,000	300 325 325	Oscillator-Grid (No. 1): Resistor: 50,000 ohms. Oscillator-Grid Current: 0.2 mA. Anode-Grid (No. 2) fed from 135 volts through 20,000 ohms, Current 3.1 mA. Oscillator-Grid Resistor: Resistor: 50,000 ohms. Oscillator-Grid Current: 0.2 mA. Anode-Grid fed from 180 max. volts through 20,000 ohms, Current 4.0 mA.				
1D4	POWER PENTODE	4 1/8" x 1 13/16"	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	2,150 2,400 2,400	—	15,000 15,000 15,000	0.35 0.55 0.75		
1D5-GP	REMOTE CUT-OFF PENTODE	4 1/8" x 1 9/16"	D.C. F.	2.0	0.06	Amplifier	90 180	{ -3.0 } min.	67.5 67.5	0.9 0.8	2.2 2.3	600,000 1,000,000	720 750	—	—	—		
1H4-G	LOW-MU TRIODE	4 1/8" x 1 9/16"	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	11,000 10,300 10,300	850 900 900	9.3 9.3 9.3	—	—		
						Class B Amplifier <i>All figures for 2 valves</i>	157.5	-15.0	—	—	1.0	—	—	—	—	—	8,000	2.1
1H5-GT	DIODE HIGH-MU TRIODE	3 5/16" x 1 9/16"	D.C. F.	1.4	0.05	Triode Unit as Class A Amplifier	90	0	—	—	0.14	240,000	275	65	—	—		
1H6-G	DUO-DIODE HIGH-MU TRIODE	4 1/8" x 1 9/16"	D.C. F.	2.0	0.06	Triode Unit as Class A Amplifier	135	-3.0	—	—	0.8	35,000	575	20	—	—		
1J6-G	CLASS B TWIN-TRIODE	4 1/8" x 1 9/16"	D.C. F.	2.0	0.24	Push-Pull Class B Power Amplifier	135 135 135	0 -4.5 -4.5	Plate Curr. No Sig. 10.0 mA. Total, Max. Sig. — mA. Plate Curr. No Sig. 1.4 mA. Total, Max. Sig. 24.5 mA. Plate Curr. No Sig. 1.4 mA. Total, Max. Sig. 13.8 mA.			10,000 10,000 20,000	2.1 1.6 1.0					
1K4	SHARP CUT-OFF PENTODE	4 1/8" x 1 9/16"	D.C. F.	2.0	0.12	Amplifier	For other characteristics refer to Type 1K5-G below.											
1K5-G	SHARP CUT-OFF PENTODE	4 1/8" x 1 9/16"	D.C. F.	2.0	0.12	R-F Amplifier	90 135 135	0 0 0	67.5 45 67.5	0.95 0.48 0.93	2.48 1.25 2.50	750,000 1,750,000 1,000,000	1,020 820 1,050	—	—	—		
						A-F Amplifier (Resistance Coupled) Plate load 0.25 meg.	135 135 180 180	-1.5 -1.5 -1.5 -1.5	Fol. Grid Resistor 0.5 meg. Voltage Gain, 62.5 (Screen fed from 135 volts through 0.75 meg. resistor. Fol. Grid Resistor 1.0 meg. Voltage Gain, 75.0 Screen fed from 180 volts through 0.75 meg. resistor. Fol. Grid Resistor 0.5 meg. Voltage Gain, 74.0 Screen fed from 180 volts through 0.75 meg. resistor. Fol. Grid Resistor 1.0 meg. Voltage Gain, 88.5 through 1.0 meg. resistor.									
						Class A Triode Amplifier Grid No. 2 tied to plate	90 135 180	-3.0 -4.5 -6.0	— — —	— — —	1.5 3.5 5.9	14,800 10,700 9,000	1,000 1,400 1,700	14.8 15.0 15.3	30,000 15,000 10,000	.013 .05 0.1		



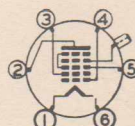
1A4-P



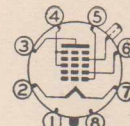
1A7-GT



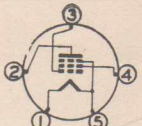
1C4



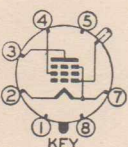
1C6



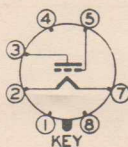
1C7-G



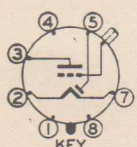
1D4



1D5-GP; 1K5-G



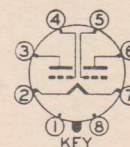
1H4-G



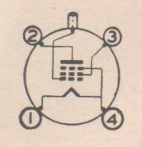
1H5-GT



1H6-G



1J6-G



1K4

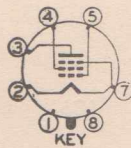
TYPE	NAME	DIMENSIONS Maximum Overall Length x Diam.	CATHODE TYPE AND RATING			USE <i>Values to right give operating conditions and characteristics for indicated typical use</i>	PLATE SUPPLY Volts	GRID BIAS Volts	SCREEN SUPPLY Volts	Screen Current mA.	PLATE CURRENT mA.	A-C PLATE RESISTANCE Ohms	TRANS-CONDUCTANCE (or conv. cond.) μ mhos	Amplification Factor	LOAD For Stated Power Output Ohms	POWER OUTPUT Watts		
			C.T.	Volts	Amp.													
1K6	DUO-DIODE PENTODE	4 1/8" x 1 1/8"	D.C. F.	2.0	0.12	<i>Amplifier</i>	For other characteristics refer to Type 1K7-G below.											
1K7-G	DUO-DIODE PENTODE	4 3/8" x 1 1/8"	D.C. F.	2.0	0.12	<i>Pentode Unit as R-F Amplifier</i>	135	0	45	0.35	0.9	2,000,000	620	—	—	—		
							135	0	67.5	0.7	1.8	1,250,000	800	—	—	—		
							135	-4.5	135	0.5	1.5	1,400,000	700	—	—	—		
						<i>Pentode Unit as A-F Amplifier (Resistance Coupled) Plate load 0.25 meg.</i>	135	-1.5	Fol. Grid Resistor, 0.5 meg., Voltage Gain, 63.0									
							135	-1.5	Fol. Grid Resistor, 1.0 meg., Voltage Gain, 76.0									
							180	-1.5	Fol. Grid Resistor, 0.5 meg., Voltage Gain, 69.0									
							180	-1.5	Fol. Grid Resistor, 1.0 meg., Voltage Gain, 83.0									
						<i>Class A Triode Amplifier Grid No. 2 tied to plate</i>	135	-4.5	—	—	2.0	16,500	900	15	30,000	.038		
							180	-6.0	—	—	3.5	15,000	1,000	15	40,000	.06		
1L5-G	POWER PENTODE	4 3/8" x 1 1/8"	D.C. F.	2.0	0.24	<i>Class A Amplifier</i>	135	-4.5	135	1.5	6.0	150,000	2,150	—	15,000	0.35		
							157.5	-4.5	157.5	2.2	9.0	125,000	2,400	—	15,000	0.55		
							180	-6.0	180	2.3	9.5	137,000	2,400	—	15,000	0.75		
1M5-G	REMOTE CUT-OFF PENTODE	4 3/8" x 1 1/8"	D.C. F.	2.0	0.12	<i>Class A Amplifier</i>	135	0	45	0.5	1.25	1,560,000	780	—	—	—		
							135	0	67.5	0.9	2.5	800,000	1,000	—	—	—		
							135	-3.0	90	0.5	1.5	1,850,000	700	—	—	—		
1P5-GT	REMOTE CUT-OFF PENTODE	3 5/16" x 1 5/16"	D.C. F.	1.4	0.05	<i>R-F Amplifier</i>	90	0	90	0.7	2.3	800,000	800	—	—	—		
1Q5-GT	BEAM TETRODE	3 5/16" x 1 5/16"	D.C. F.	1.4	0.1	<i>Class A Amplifier</i>	90	-4.5	90	1.6	9.5	—	2,100	—	8,000	0.27		
1R5	PENTAGRID CONVERTER	2 1/8" x 3/4"	D.C. F.	1.4	0.05	<i>Converter</i>	45	0	45	1.9	0.7	600,000	Grid No. 1 Resistor, 100,000 ohms.					
							90	0	67.5	3.0	1.7	500,000	Conversion Transcond., 300 micromhos.					
1S5	DIODE PENTODE	2 1/8" x 3/4"	D.C. F.	1.4	0.05	<i>Pentode Unit as Class A Amplifier</i>	Plate Supply: 90 volts, applied through 1 meg. Resistor. Screen Voltage: 90 volts, applied through 3 meg. Resistor. Grid Bias: 0 volts. Grid Resistor: 10 meg. Voltage Gain, 50 approx.											
1T4	REMOTE CUT-OFF PENTODE	2 1/8" x 3/4"	D.C. F.	1.4	0.05	<i>Class A Amplifier</i>	45	0	45	0.7	1.9	350,000	700	—	—	—		
							90	0	67.5	1.25	3.7	500,000	900	—	—	—		
						<i>Pentode Class A Amplifier</i>	250	-16.5	250	6.5	34.0	80,000	2,500	—	7,000	3.2		
							285	-20.0	285	7.0	38.0	78,000	2,550	—	7,000	4.8		
						<i>Triode Class A Amplifier Grid No. 2 tied to plate</i>	250	-20.0	—	—	31.0	2,600	2,600	6.8	4,000	0.85		
2A5	POWER PENTODE	4 1/8" x 1 1/8"	H.	2.5	1.75	<i>Pentode Push-Pull Class A Amplifier All figures for 2 valves</i>	315	Cath. Bias -24.0	285	12.0	62.0	Cath. Bias Resistor, 320 ohms.				10,000	10.5	
							315		285	12.0	62.0					10,000	11.0	
							375	Cath. Bias -26.0	250	8.0	54.0	Cath. Bias Resistor, 340 ohms.				10,000	19.0	
							375		250	5.0	34.0					10,000	18.5	
						<i>Triode Push-Pull Class AB₂ Ampl. Grid No. 2 tied to plate All figures for 2 valves</i>	350	Cath. Bias -38.0	—	—	48	Cath. Bias Resistor, 730 ohms.				10,000	9.0	
							350		—	—	50					6,000	13.0	
3S4	POWER PENTODE	2 1/8" x 3/4"	D.C. F.	2.8	0.05	<i>Class A Amplifier</i>	90	-7	67.5	1.1	6.1	100,000	1,425	—	8,000	.235		
							90	-7	67.5	1.4	7.4	100,000	1,575	—	8,000	.270		
3V4	POWER PENTODE	2 1/8" x 3/4"	D.C. F.	2.8	0.05	<i>Class A Amplifier</i>	90	-4.5	90	1.7	7.7	120,000	2,000	—	10,000	.240		
							90	-4.5	90	2.1	9.5	100,000	2,150	—	10,000	.270		



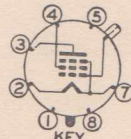
1K6



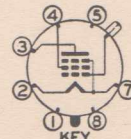
1K7-G



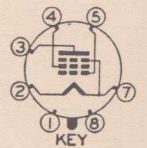
1L5-G



1M5-G



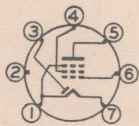
1P5-GT



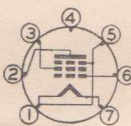
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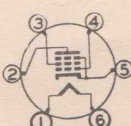
1R5



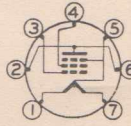
1S5



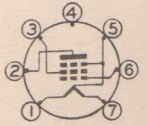
1T4



2A5



3S4

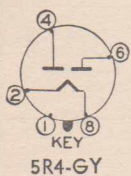


3V4

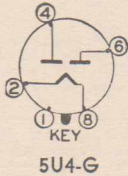
RADIOTRON RECEIVING VALVES

5R4-GY to 6B6-G

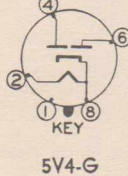
TYPE	NAME	DIMENSIONS <i>Maximum Overall Length x Diam.</i>	CATHODE TYPE AND RATING			USE <i>Values to right give operating conditions and characteristics for indicated typical use</i>	PLATE SUPPLY Volts	GRID BIAS Volts	SCREEN SUPPLY Volts	Screen Current mA.	PLATE CURRENT mA.	A-C PLATE RESISTANCE Ohms	TRANS-CONDUCTANCE (or conv. cond.) μ mhos	Amplification Factor	LOAD <i>For Stated Power Output</i> Ohms	POWER OUTPUT Watts
			C.T.	Volts	Amp.											
5R4-GY	FULL-WAVE RECTIFIER	5 $\frac{5}{16}$ " x 2 $\frac{1}{16}$ "	F.	5.0	2.0	With Choke Input Filter	Peak Inverse Voltage = 2800 max. volts Peak Plate Current per Plate = 650 max. mA.	R.M.S. Voltage per Plate = 1,000 max. volts. D-C Output Current = 175 max. mA. Choke Inductance = 10.0 min. henrys.								
						With Condenser Input Filter		R.M.S. Voltage per Plate = 1,000 max. volts. D-C Output Current = 150 max. mA. Filter-Input Condenser = 4 max. microfarads. Total Plate Supply Impedance per Plate = 575 min. ohms.								
5U4-G /U52	FULL-WAVE RECTIFIER	5 $\frac{5}{16}$ " x 2 $\frac{1}{16}$ "	F.	5.0	3.0	With Choke Input Filter	Peak Inverse Voltage = 1400 max. volts Peak Plate Current per Plate = 750 max. mA.	R.M.S. Voltage per Plate = 500 max. volts. D-C Output Current = 250 max. mA. Choke Inductance = 3.0 min. henrys.								
						With Condenser Input Filter		R.M.S. Voltage per Plate = 500 max. volts. D-C Output Current = 250 max. mA. Filter-Input Condenser = 40 max. microfarads. Total Plate Supply Impedance per Plate = 75 min. ohms.								
5V4-G	FULL-WAVE RECTIFIER	4 $\frac{5}{8}$ " x 1 $\frac{1}{8}$ "	H.	5.0	2.0	With Choke Input Filter	Peak Inverse Voltage = 1400 max. volts Peak Plate Current per Plate = 525 max. mA.	R.M.S. Voltage per Plate = 500 max. volts. D-C Output Current = 175 max. mA. Choke Inductance = 4.0 min. henrys.								
						With Condenser Input Filter		R.M.S. Voltage per Plate = 375 max. volts. D-C Output Current = 175 max. mA. Filter Input-Condenser = 40 max. microfarads. Total Plate Supply Impedance per Plate = 65 min. ohms.								
						With Condenser Input Filter		(With a resistance of 125 ohms in series with each plate.) R.M.S. Voltage per Plate = 450 max. volts. D-C Output Current = 175 max. mA. Filter Input-Condenser = 8 max. microfarads. Total Plate Supply Impedance per Plate = 65 min. ohms.								
5Y3-GT	FULL-WAVE RECTIFIER	3 $\frac{3}{8}$ " x 1 $\frac{5}{16}$ "	F.	5.0	2.0	With Choke Input Filter	Peak Inverse Voltage = 1400 max. volts Peak Plate Current per Plate = 375 max. mA.	R.M.S. Voltage per Plate = 500 max. volts. D-C Output Current = 125 max. mA. Choke Inductance = 5.0 min. henrys.								
						With Condenser Input Filter		R.M.S. Voltage per Plate = 400 max. volts. D-C Output Current = 125 max. mA. Filter Input Condenser = 8.0 max. microfarads. Total Effective Plate Supply Impedance per Plate = 80 min. ohms.								
6AL5/D77	DUO-DIODE	1 $\frac{3}{4}$ " x $\frac{3}{4}$ "	H.	6.3	0.3	Detector Rectifier	Max. Peak Inverse Volts, 420. Max. Peak Plate mA. per Plate, 54. Max. D-C Output mA. per Plate, 9. Max. Peak Heater-Cathode Volts, 330.									
6AQ5	BEAM TETRODE	2 $\frac{5}{8}$ " x $\frac{3}{4}$ "	H.	6.3	0.45	Single Valve Class A Amplifier	180	-8.5	180	3.0	29.0	58,000	3,700	—	5,500	2.0
						Push-Pull Class AB ₁ Ampl. All figures for 2 valves	250	-12.5	250	4.5	45.0	52,000	4,100	—	5,000	4.5
6AR7-GT	DUO-DIODE REMOTE CUT-OFF PENTODE	3 $\frac{3}{8}$ " x 1 $\frac{5}{16}$ "	H.	6.3	0.3	Pentode Unit as A-F Amplifier	250	-2	100	1.8	7.0	1 meg.	2,500	2,500	—	—
						Class A Amplifier	100	-1.0	100	2.0	5.2	500,000	3,900	—	—	—
6AU6	SHARP CUT-OFF PENTODE	2 $\frac{1}{2}$ " x $\frac{3}{4}$ "	H.	6.3	0.3	Class A Amplifier	250	-1.0	150	4.3	10.8	1.0 meg.	5,200	—	—	
6AV6	DUO-DIODE HIGH-MU TRIODE	2 $\frac{1}{2}$ " x $\frac{3}{4}$ "	H.	6.3	0.3	Triode Unit as Class A Amplifier	100	-1.0	—	—	0.5	80,000	1,250	100	—	
250	-2.0	—	—	—	1.2	62,500	1,600	100	—	—						
6A7	PENTAGRID CONVERTER	4 $\frac{3}{32}$ " x 1 $\frac{9}{16}$ "	H.	6.3	0.3	Converter	For other characteristics refer to Type 6A8-G below.									
6A8-G	PENTAGRID CONVERTER	4 $\frac{3}{32}$ " x 1 $\frac{9}{16}$ "	H.	6.3	0.3	Converter	250	-3.0	100	2.7	3.5	360,000	550	Anode-Grid (No. 2) fed from 250 max. volts through 20,000 ohms, Current = 4.0 mA. Oscillator-Grid Resistor 50,000 ohms, Current 0.4 mA.		
6B6-G	DUO-DIODE HIGH-MU TRIODE	4 $\frac{15}{32}$ " x 1 $\frac{9}{16}$ "	H.	6.3	0.3	Triode Unit as Class A Amplifier	250	-2.0	—	—	1.0	91,000	1,100	100	—	



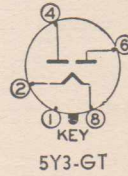
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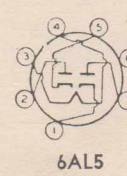
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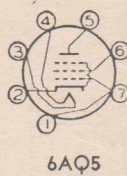
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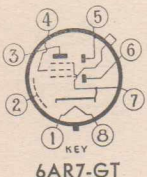
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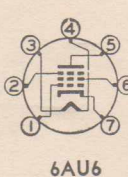
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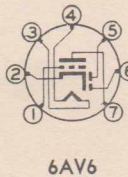
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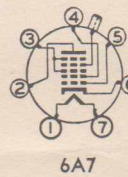
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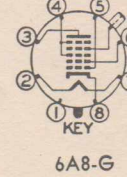
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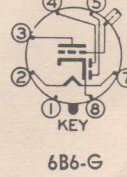
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6A7

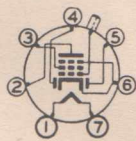


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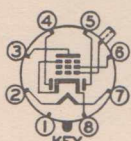


6B6-G

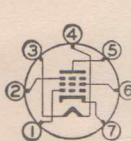
TYPE	NAME	DIMENSIONS Maximum Overall Length x Diam.	CATHODE TYPE AND RATING			USE <i>Values to right give operating conditions and characteristics for indicated typical use</i>	PLATE SUPPLY Volts	GRID BIAS Volts	SCREEN SUPPLY Volts	Screen Current mA.	PLATE CURRENT mA.	A-C PLATE RESISTANCE Ohms	TRANS-CONDUCTANCE (or conv. cond.) μ mhos	Amplification Factor	LOAD For Stated Power Output Ohms	POWER OUTPUT Watts
			C.T.	Volts	Amp.											
6B7	DUO-DIODE PENTODE	4 $\frac{3}{8}$ " x 1 $\frac{1}{8}$ "	H.	6.3	0.3	Pentode Unit as Class A Amplifier	For other characteristics refer to Type 6B8-G below.									
6B7S	DUO-DIODE REMOTE CUT-OFF PENTODE	4 $\frac{3}{8}$ " x 1 $\frac{1}{8}$ "	H.	6.3	0.3	Pentode Unit as Class A Amplifier	For other characteristics refer to Type 6G8-G below.									
6B8-G	DUO-DIODE PENTODE	4 $\frac{3}{8}$ " x 1 $\frac{1}{8}$ "	H.	6.3	0.3	Pentode Unit as R-F Amplifier	100 250	-3 -3	100 125	1.7 2.3	5.8 9.0	300,000 600,000	950 1,125	—	—	—
						Pentode Unit as A-F Amplifier (Resistance Coupled) Plate load 0.25 meg.	250 250 400 400	Fol. Grid Resistor, 0.5 meg., Voltage Gain, 80 Fol. Grid Resistor, 1.0 meg., Voltage Gain, 95 Fol. Grid Resistor, 0.5 meg., Voltage Gain, 92 Fol. Grid Resistor, 1.0 meg., Voltage Gain, 110		Cathode Bias Resistor = 2,000 ohms. Series Screen-Supply Resistor = 1.75 megohms.						
						Class A Amplifier	100 250	Cath. Bias	100 100	4.4 4.2	10.8 11.0	250,000 1.0m Ω	4,300 4,400	Cath. Bias Res., 68 ohms. Cath. Bias Res., 68 ohms.		
						Converter	100 250	-1.5 -1.5	100 100	7.3 7.1	2.8 3.0	500,000 1.0 meg.	Grid Resistor, 20,000 ohms. Conversion Transcond., 475 micromhos.			
6BA6	REMOTE CUT-OFF PENTODE	2 $\frac{1}{4}$ " x $\frac{3}{4}$ "	H.	6.3	0.3	Class A Amplifier	100 250	Cath. Bias	100 100	4.4 4.2	10.8 11.0	250,000 1.0m Ω	4,300 4,400	Cath. Bias Res., 68 ohms. Cath. Bias Res., 68 ohms.		
6BE6	PENTAGRID CONVERTER	2 $\frac{1}{4}$ " x $\frac{3}{4}$ "	H.	6.3	0.3	Converter	100 250	-1.5 -1.5	100 100	7.3 7.1	2.8 3.0	500,000 1.0 meg.	Grid Resistor, 20,000 ohms. Conversion Transcond., 475 micromhos.			
6C6	SHARP CUT-OFF PENTODE	4 $\frac{1}{8}$ " x 1 $\frac{1}{8}$ "	H.	6.3	0.3	Pentode Class A R-F Amplifier	100 250	-3 -3	100 100	0.5 0.5	2.0 2.0	1,000,000 1.0 meg.	1,185 1,225	—	—	—
						Pentode Class A A-F Amplifier (Resistance Coupled) Plate load 0.25 meg.	250 250 400 400	Fol. Grid Resistor, 0.5 meg., Voltage Gain, 125 Fol. Grid Resistor, 1.0 meg., Voltage Gain, 150 Fol. Grid Resistor, 0.5 meg., Voltage Gain, 145 Fol. Grid Resistor, 1.0 meg., Voltage Gain, 175		Cathode Bias Resistor = 2,000 ohms Series Screen-Supply Resistor = 1.5 megohm.						
						Pentode Bias Detector	250	-4.3	100	Cathode Current 0.43 mA.		—	Plate Resistor, 500,000 ohms. Fol. Grid Resistor, 250,000 ohms			
						Triode Class A Amplifier Grids Nos. 2 & 3 tied to plate	180 250	-5.3 -8.0	—	—	5.3 6.5	11,000 10,500	1,800 1,900	20 20	—	—
6D6	REMOTE CUT-OFF PENTODE	4 $\frac{1}{8}$ " x 1 $\frac{1}{8}$ "	H.	6.3	0.3	Class A Amplifier	100 250	-3.0 -3.0	100 100	2.2 2.0	8.0 8.2	250,000 800,000	1,500 1,600	—	—	—
						Mixer in Superheterodyne	100 250	-10.0 -10.0	100 100	—	—	Oscillator Peak Volts = 7.0				
6F6-G	POWER PENTODE	4 $\frac{3}{8}$ " x 1 $\frac{1}{8}$ "	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	80,000 78,000	2,500 2,550	—	7,000 7,000	3.2 4.8
						Triode Class A Amplifier Grid No. 2 tied to plate	250	-20.0	—	—	31.0	2,600	2,600	6.8	4,000	0.85
						Pentode Push-Pull Class A Amplifier All figures for 2 valves	315 315	Cath. Bias -24.0	285 285	12.0 12.0	62.0 62.0	Cath. Bias Resistor, 320 ohms.			10,000 10,000	10.5 11.0
						Pentode Push-Pull Class AB ₂ Amplifier All figures for 2 valves	375 375	Cath. Bias -26.0	250 250	8.0 5.0	54.0 34.0	Cath. Bias Resistor, 340 ohms.			10,000 10,000	19.0 18.5
						Triode Push-Pull Class AB ₂ Amplifier All figures for 2 valves Grid No. 2 tied to plate	350 350	Cath. Bias -38.0	—	—	48 50	Cath. Bias Resistor, 730 ohms.			10,000 6,000	9.0 13.0
						Pentode Unit as R-F Amplifier	250 250	-3.0 -3.0	100 125	1.5 2.2	6.5 9.5	850,000 510,000	1,100 1,210	900 600	—	—
6G8-G	DUO-DIODE REMOTE CUT-OFF PENTODE	4 $\frac{3}{8}$ " x 1 $\frac{1}{8}$ "	H.	6.3	0.3	Pentode Unit as A-F Amplifier (Resistance Coupled) Plate load 0.25 meg.	135 135 250 250	Fol. Grid Resistor, 0.5 meg., Voltage Gain, 63.5 Fol. Grid Resistor, 1.0 meg., Voltage Gain, 75.0 Fol. Grid Resistor, 0.5 meg., Voltage Gain, 77.0 Fol. Grid Resistor, 1.0 meg., Voltage Gain, 93.0		Cathode Bias Resistor = 2,000 ohms. Screen-Supply Voltage Divider Network: -1.0 megohm to B + max. and 0.25 megohm to Earth.						
6H6-GT	DUO-DIODE	3 $\frac{1}{8}$ " x 1 $\frac{1}{8}$ "	H.	6.3	0.3	Detector Rectifier	Voltage Doubler Max. A-C Supply Volts per Plate (R.M.S.), 150. Max. D-C Output mA, 8 min. Total Effect. Plate-Supply Imped. per Plate: Half-Wave, 15 ohms.									
						$\frac{1}{2}$ Wave Rectifier	Max. A-C Plate Volts (R.M.S.), 150. Min. Total Effective Plate-Supply Impedance: up to 117 Volts, 15 ohms, at 150 Volts, 40 ohms.									



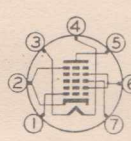
6B7, 6B7-S



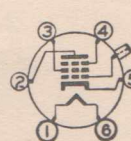
6B8-G, 6G8-G



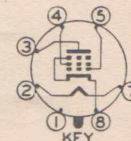
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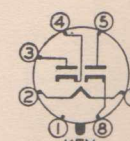
6BE6



6C6, 6D6



6F6-G

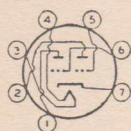


6H6-G

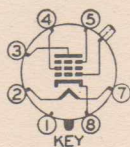
RADIOTRON RECEIVING VALVES

6J6 to 6V6-GT

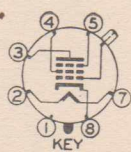
TYPE	NAME	DIMENSIONS Maximum Overall Length x Diam.	CATHODE TYPE AND RATING			USE <i>Values to right give operating conditions and characteristics for indicated typical use</i>	PLATE SUPPLY Volts	GRID BIAS Volts	SCREEN SUPPLY Volts	Screen Current mA.	PLATE CURRENT mA.	A-C PLATE RESISTANCE Ohms	TRANS-CONDUCTANCE (or conv. cond.) μ mhos	Amplification Factor	LOAD For Stated Power Output Ohms	POWER OUTPUT Watts
			C.T.	Volts	Amp.											
6J6	TWIN TRIODE	2 $\frac{1}{8}$ " x $\frac{3}{4}$ "	H.	6.3	0.45	Each Unit as Class A Amplifier	100	Cathode Resistor, for both units, 50 ohms.			8.5	7,100	5,300	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-G	SHARP CUT-OFF PENTODE	4 $\frac{3}{8}$ " x 1 $\frac{5}{16}$ "	H.	6.3	0.3	Pentode Class A R-F Amplifier	100 250	-3 -3	100 100	0.5 0.5	2.0 2.0	1,000,000 1.0 meg.	1,185 1,225	—	—	—
						Pentode Class A A-F Amplifier (Resistance Coupled) Plate load 0.25 meg.	250 250 400 400	Fol. Grid Resistor, 0.5 meg., Voltage Gain, 125 Fol. Grid Resistor, 1.0 meg., Voltage Gain, 150 Fol. Grid Resistor, 0.5 meg., Voltage Gain, 145 Fol. Grid Resistor, 1.0 meg., Voltage Gain, 175			Cathode Bias Resistor, 2,000 ohms. Series Screen-Supply Resistor = 1.5 megohm.			—	—	
						Pentode Bias Detector	250	-4.3	100	Cathode Current 0.43 mA.	—	Plate Resistor, 500,000 ohms. Fol. Grid Resistor, 250,000 ohms.			—	—
						Triode Class A Amplifier Grids Nos. 2 & 3 tied to plate	180 250	-5.3 -8.0	—	—	5.3 6.5	11,000 10,500	1,800 1,900	20 20	—	—
						For other characteristics refer to Type 6J7-G above.										
6J7-G /1620	LOW-NOISE PENTODE	4 $\frac{3}{8}$ " x 1 $\frac{5}{16}$ "	H.	6.3	0.3	Low-Noise Amplifier										
6J8-GA	TRIODE-HEPTODE CONVERTER	4 $\frac{3}{8}$ " x 1 $\frac{5}{16}$ "	H.	6.3	0.45	Heptode Unit as Mixer	250	-3.0	100	2.9	1.3	4,000,000	290	Triode Plate fed from 250 max. volts through 20,000 ohms, Current = 5.0 mA. Oscillator (triode) Grid Resistor 50,000 ohms, Current 0.4 mA.		
						Triode Unit	100	0	—	—	7.0	10,600	1,600	17	—	—
6SA7-GT	PENTAGRID CONVERTER	3 $\frac{5}{16}$ " x 1 $\frac{5}{16}$ "	H.	6.3	0.3	Mixer	100 250	Self-Excited	100 100	8.0 8.0	3.2 3.4	500,000 800,000	Grid No. 1 Resistor, 20,000 ohms. Conversion Transcond., 450 micromhos.			
6SJ7-GT	SHARP CUT-OFF PENTODE	3 $\frac{5}{16}$ " x 1 $\frac{5}{16}$ "	H.	6.3	0.3	Amplifier	100 250	-3 -3	100 100	0.9 0.8	2.9 3.0	700,000 1.0 meg.	1,575 1,650	—	—	
6SK7-GT	REMOTE CUT-OFF PENTODE	3 $\frac{5}{16}$ " x 1 $\frac{5}{16}$ "	H.	6.3	0.3	Amplifier	100 250	-1 -3	100 100	4.0 2.6	13.0 9.2	120,000 800,000	2,350 2,000	—	—	
6SN7-GT	TWIN TRIODE	3 $\frac{5}{16}$ " x 1 $\frac{5}{16}$ "	H.	6.3	0.6	Each Unit as Amplifier	90 250	0 -8	—	—	10.0 9.0	6,700 7,700	3,000 2,600	—	—	
6SQ7-GT	DUO-DIODE HIGH-MU TRIODE	3 $\frac{5}{16}$ " x 1 $\frac{5}{16}$ "	H.	6.3	0.3	Triode Unit as Amplifier Plate load 0.25 meg.	100 250	-1.0 -2.0	—	—	0.4 0.9	110,000 91,000	900 1,100	100 100	—	—
						90 300	Cath. Bias, 8,300 ohms } Cath. Bias, 4,580 ohms }			Fol. Grid Resistor, 0.5 megohm			{ Gain per stage = 40 { Gain per stage = 53			
6U7-G	REMOTE CUT-OFF PENTODE	4 $\frac{7}{8}$ " x 1 $\frac{5}{16}$ "	H.	6.3	0.3	Class A Amplifier	100 250	-3.0 -3.0	100 100	2.2 2.0	8.0 8.2	250,000 800,000	1,500 1,600	—	—	
						Mixer in Superheterodyne	100 250	-10.0 -10.0	100 100	—	—	Oscillator Peak Volts = 7.0				
6V6-GT	BEAM TETRODE	3 $\frac{5}{16}$ " x 1 $\frac{5}{16}$ "	H.	6.3	0.45	Single Valve Class A Amplifier	250 315	-12.5 -13.0	250 225	4.5 2.2	45.0 34.0	52,000 77,000	4,100 3,750	—	5,000 8,500	4.5 5.5
						Push-Pull Class AB ₁ Amplifier All figures for 2 valves	250	-15.0	250	5.0	70.0	—	—	—	10,000	10.0



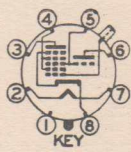
6J6



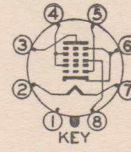
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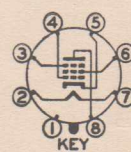
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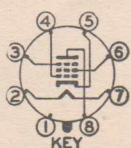
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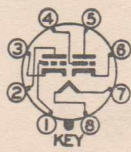
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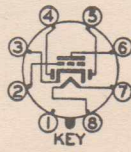
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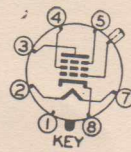
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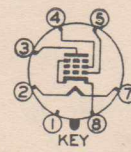
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6SQ7-GT

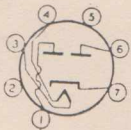


6U7-G

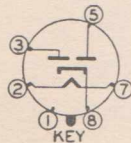


6V6-GT

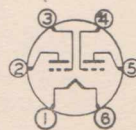
TYPE	NAME	DIMENSIONS Maximum Overall Length x Diam.	CATHODE TYPE AND RATING			USE <i>Values to right give operating conditions and characteristics for indicated typical use</i>	PLATE SUPPLY Volts	GRID BIAS Volts	SCREEN SUPPLY Volts	Screen Current mA.	PLATE CURRENT mA.	A-C PLATE RESISTANCE Ohms	TRANS. CONDUCTANCE (or conv. cond.) μ mhos	Amplification Factor	LOAD For Stated Power Output Ohms	POWER OUTPUT Watts		
			C.T.	Volts	Amp.													
6X4	FULL-WAVE RECTIFIER	2 5/8" x 3/4"	H.	6.3	0.6	With Choke Input Filter	Peak Inverse Voltage = 1250 max. volts Peak Plate Current per Plate = 210 max. mA.	R.M.S. Voltage per plate = 450 max. volts. D-C Output Current = 70 max. mA. Choke Inductance = 8 min. henrys.										
						With Condenser Input Filter	R.M.S. Voltage per Plate = 325 max. volts. D-C Output Current = 70 max. mA. Total Plate Supply Impedance per Plate = 150 min. ohms. Filter-Input Condenser = 40 max. microfarads.											
6X5-GT	FULL-WAVE RECTIFIER	3 5/16" x 1 5/16"	H.	6.3	0.6	With Choke Input Filter	Peak Inverse Voltage = 1250 max. volts Peak Plate Current per Plate = 210 max. mA.	R.M.S. Voltage per plate = 450 max. volts. D-C Output Current = 70 max. mA. Choke Inductance = 8 min. henrys.										
						With Condenser Input Filter	R.M.S. Voltage per Plate = 325 max. volts. D-C Output Current = 70 max. mA. Total Plate Supply Impedance per Plate = 150 min. ohms. Filter-Input Condenser = 40 max. microfarads.											
19	CLASS B TWIN TRIODE	4 3/16" x 1 9/16"	D.C. F.	2.0	0.26	Push-Pull Class B Power Amplifier	135 0 135 -4.5 135 -4.5	Plate Curr. No Sig. 10.0 mA. Total, Max. Sig. — mA. Plate Curr. No Sig. 1.4 mA. Total, Max. Sig. 24.5 mA. Plate Curr. No Sig. 1.4 mA. Total, Max. Sig. 13.8 mA.		10,000 10,000 20,000	2.1 1.6 1.0							
30	LOW-MU TRIODE	4 3/16" x 1 9/16"	D.C. F.	2.0	0.06	Class A Amplifier	90 -4.5 135 -9.0 180 -13.5	—	—	2.5 3.0 3.1	11,000 10,300 10,300	850 900 900	9.3 9.3 9.3	—				
						Class B Amplifier All figures for 2 valves	157.5	-15.0	—	—	1.0	—	—	—	—	—	8,000	2.1
42	POWER PENTODE	4 1/8" x 1 1/8"	H.	6.3	0.7	Class A Amplifier	250 285	-16.5 -20.0	250 285	6.5 7.0	34.0 38.0	80,000 78,000	2,500 2,550	—	7,000 7,000	3.2 4.8		
						Pentode Class A Amplifier Triode	250	-20.0	—	—	31.0	2,600	2,600	6.8	4,000	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.			10,000 10,000	10.5 11.0		
						Pentode Push-Pull Class AB ₂ Ampl.	375 375	Cath. Bias -26.0	250 250	8.0 5.0	54.0 34.0	Cath. Bias Resistor, 340 ohms.			10,000 10,000	19.0 18.5		
						Triode Push-Pull Class AB ₂ Ampl. Grid No. 2 tied to plate	350 350	Cath. Bias -38.0	—	—	48 50	Cath. Bias Resistor, 730 ohms.			10,000 6,000	9.0 13.0		
						Class A Amplifier	180 275	-31.5 -56	—	—	31.0 36.0	1,650 1,700	2,125 2,050	3.5 3.5	2,700 4,600	0.825 2.00		
45	POWER TRIODE	4 1/8" x 1 1/8"	F.	2.5	1.5	Push-Pull Class AB ₂ Amplifier All figures for 2 valves	275 275	Cath. Bias 775 ohms. -68 Volts, fixed bias.	36.0 28.0	—	—	—	5,060 3,200	12.0 18.0				
47	POWER PENTODE	5 3/8" x 2 1/8"	F.	2.5	1.75	Class A Amplifier	250	-16.5	250	6.0	31.0	60,000	2,500	7,000	2.7			
57	SHARP CUT-OFF PENTODE	4 1/8" x 1 9/16"	H.	2.5	1.0	Pentode Class A R-F Amplifier	100 250	-3 -3	100 100	0.5 0.5	2.0 2.0	1,000,000 1.0 meg.	1,185 1,225	—				
						Pentode Class A A-F Amplifier (Resistance Coupled) Plate load 0.25 meg.	250 250 400 400	Fol. Grid Resistor, 0.5 meg., Voltage Gain, 125 Fol. Grid Resistor, 1.0 meg., Voltage Gain, 150 Fol. Grid Resistor, 0.5 meg., Voltage Gain, 145 Fol. Grid Resistor, 1.0 meg., Voltage Gain, 175 Cathode Bias Resistor, 2,000 ohms Series Screen-Supply Resistor = 1.5 megohm.										
						Pentode Bias Detector	250	-4.3	100	Cathode Current 0.43 mA.	—	Plate Resistor, 500,000 ohms. Fol. Grid Resistor, 250,000 ohms.			—			
						Triode Class A Amplifier Grids Nos. 2 & 3 tied to plate	180 250	-5.3 -8.0	—	—	5.3 6.5	11,000 10,500	1,800 1,900	20 20	—			
58	REMOTE CUT-OFF PENTODE	4 1/8" x 1 9/16"	H.	2.5	1.0	Class A Amplifier	100 250	-3.0 -3.0	100 100	2.2 2.0	8.0 8.2	250,000 800,000	1,500 1,600	—				



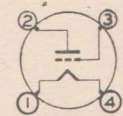
6X4



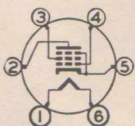
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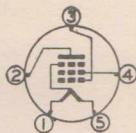
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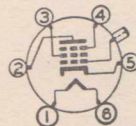
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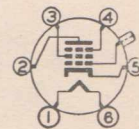
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47



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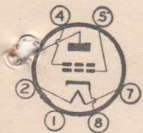


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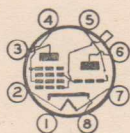
RADIOTRON RECEIVING VALVES

KT61 to 302

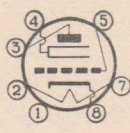
TYPE	NAME	DIMENSIONS <i>Maximum Overall Length x Diam.</i>	CATHODE TYPE AND RATING			USE <i>Values to right give operating conditions and characteristics for indicated typical use</i>	PLATE SUPPLY	GRID BIAS	SCREEN SUPPLY	Screen Current	PLATE CURRENT	A-C PLATE RESISTANCE	TRANS-CONDUCTANCE (or conv. cond.) μ mhos	Amplification Factor	LOAD For Stated Power Output Ohms	POWER OUTPUT Watts								
			C.T.	Volts	Amp.		Volts	Volts	mA.	mA.	Ohms													
KT61	POWER TETRODE	4 $\frac{1}{8}$ " x 1 $\frac{1}{2}$ "	H.	6.3	0.95	Class A Amplifier	250	-4.3	250	7.5	40	75,000	10,500	790	6,000	4.3								
X61M	TRIODE-HEXODE CONVERTER	4 $\frac{1}{2}$ " x 1 $\frac{1}{32}$ "	H.	6.3	0.3	Converter	250	-3	100	2.8	3.7	700,000	620	Oscillator Plate fed from 250 volts through 30,000 ohms. Current = 3.5 mA. Oscillator Grid Resistor, 50,000 ohms. Current = 0.3 mA.										
Y61	TUNING INDICATOR	4 $\frac{5}{32}$ " x 1 $\frac{3}{16}$ "	H.	6.3	0.3	Tuning Indicator	Plate and 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.																	
KT71	POWER TETRODE	4 $\frac{1}{16}$ " x 1 $\frac{3}{32}$ "	H.	48.0	0.16	Class A Amplifier	175	-9.8	175	12.0	70	—	—	—	2,500	5.0								
DH76	DUO-DIODE HIGH-MU TRIODE	4 $\frac{3}{16}$ " x 1 $\frac{1}{32}$ "	H.	13.0	0.16	Triode Unit as Class A Amplifier	250	-3	—	—	1.0	58,000	1,200	70	—	—								
U76	HALF-WAVE RECTIFIER	3 $\frac{7}{8}$ " x 1 $\frac{1}{32}$ "	H.	30.0	0.16	With Condenser Input Filter	Max. A.C. R.M.S. Plate, 250 volts. Max. D-C Output, 100 mA. Max. Peak Inverse, 700 volts. Max. Peak Plate Current, 500 mA. Plate Supply Impedance, 100 ohms. Filter input condenser = 32 max. microfarads.																	
W76	REMOTE CUT-OFF PENTODE	4 $\frac{3}{16}$ " x 1 $\frac{1}{32}$ "	H.	13.0	0.16	Class A Amplifier	175	-2.3	100	1.7	8.5	500,000	1,500	750	—	—								
X76M	TRIODE-HEXODE CONVERTER	4 $\frac{3}{16}$ " x 1 $\frac{1}{32}$ "	H.	13.0	0.16	Converter	250	-3	100	2.8	3.7	700,000	620	Oscillator Plate fed from 250 volts through 30,000 ohms. Current = 3.5 mA. Oscillator Grid Resistor, 50,000 ohms. Current = 0.3 mA.										
75	DUO-DIODE HIGH-MU TRIODE	4 $\frac{1}{32}$ " x 1 $\frac{3}{16}$ "	H.	6.3	0.3	Triode Unit as Class A Amplifier	250	-2.0	—	—	1.0	91,000	1,100	100	—	—								
80	FULL-WAVE RECTIFIER	4 $\frac{1}{16}$ " x 1 $\frac{1}{16}$ "	F.	5.0	2.0	With Choke Input Filter	Peak Inverse Voltage = 1400 max. volts Peak Plate Current per Plate = 375 max. mA. R.M.S. Voltage per Plate = 500 max. volts. D-C Output Current = 125 max. mA. Choke Inductance = 5.0 min. henries.																	
						With Condenser Input Filter										R.M.S. Voltage per Plate = 400 max. volts. D-C Output Current = 125 max. mA. Filter-Input Condenser = 8.0 max. microfarads. Total Effective Plate Supply Impedance per Plate = 80 min. ohms.								
83V	FULL-WAVE RECTIFIER	4 $\frac{1}{16}$ " x 1 $\frac{1}{16}$ "	H.	5.0	2.0	With Choke Input Filter	Peak Inverse Voltage = 1400 max. volts Peak Plate Current per Plate = 525 max. mA. R.M.S. Voltage per Plate = 500 max. volts. D-C Output Current = 175 max. mA. Choke Inductance = 4.0 min. henries.																	
						With Condenser Input Filter										R.M.S. Voltage per Plate = 375 max. volts. D-C Output Current = 125 max. mA. Filter-Input Condenser = 40 max. microfarads. Total Plate Supply Impedance per Plate = 65 min. ohms.								
						With Condenser Input Filter										(With a resistance of 125 ohms in series with each plate.) R.M.S. Voltage per Plate = 450 max. volts. D-C Output Current = 175 max. mA. Filter-Input Condenser = 8 max. microfarads. Total Plate Supply Impedance per Plate = 65 min. ohms.								
161	BARRETTTER	3 $\frac{5}{8}$ " x 1 $\frac{3}{32}$ "	F.	—	0.16	Current Regulator	Voltage Range, 100-200 volts. Edison Screw Base.																	
302	BARRETTTER	5 $\frac{1}{2}$ " x 2 $\frac{1}{8}$ "	F.	—	0.3	Current Regulator	Voltage Range, 112-195 volts. Edison Screw Base.																	



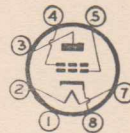
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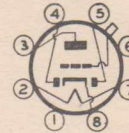
X61M



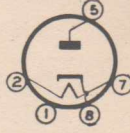
Y61



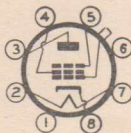
KT71



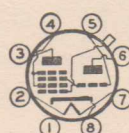
DH76



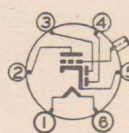
U76



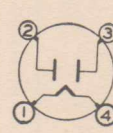
W76



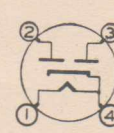
X76M



75



80



83V

RADIOTRON SUBSTITUTION CHART

The alternative valves listed below have been chosen from a comparison of electrical characteristics. It will be necessary to check the physical dimensions and basing before proceeding to make a change. Reference should also be made to the operating voltages and currents printed earlier in this booklet to determine what alterations, if any, are required.

A metallised equivalent or alternative should be sought in place of a metallised original, and vice versa. If this does not prove possible, a non-metallised valve might be used in place of a metallised valve with safety, but not necessarily vice versa. If only a metallised valve is available in place of a plain valve, any screening can should be removed.

The use of equivalent or alternative radio-frequency amplifiers and converters may involve re-alignment of the receiver. Such converters, whilst probably quite satisfactory on the broadcast band may give considerably different performance from the original on the short wave bands.

Directly and indirectly heated rectifiers may, in general, replace each other without difficulty.

Valve Type	Suggested Replacement	Valve Type	Suggested Replacement	Valve Type	Suggested Replacement
0Z4-G	6X5-GT	1LN5	1T4	6AQ6	6AV6
1A4P	1M5-G	1N5-GT	1T4	6AQ7-GT	6SQ7-GT
1A5-GT	3V4	1P5-GT	1T4	6AR5	6AQ5
1A6	1C7-G	1Q5-GT	3V4	6AS5	6AQ5
1A7-GT	1R5	1S4	3S4	6AT6	6AV6
1B4-P	1K5-G	1T5-GT	3V4	6B4-G	807 (triode)
1B5/25S	1K7-G	1U4	1T4	6B5	6V6-GT
1B7-GT	1R5	1U5	1S5	6B6-G	6SQ7-GT
1C4	1M5-G	1-V	6X5-GT	6B7	6G8-G
1C5-G	3V4	2A3	807 (triode)	6B7S	6G8-G
1C6	1C7-G	2A5	6V6-GT	6B8	6G8-G
1D4	1L5-G	2A6	6SQ7-GT	6BH6	6AU6
1D5-GT	1M5-G	2A7	6A8-G	6BJ6	6BA6
1D7-G	1C7-G	2B7	6G8-G	6C4	L77/6C4
1E5-GP	1K5-G	2E5	Y61	6C5	6SJ7-GT (triode)
1F4	1L5-G	3LF4	3V4	6C6	6J7-G
1F5-G	1L5-G	3Q4	3V4	6C8-G	6SN7-GT
1F6	1K7-G	3Q5-GT	3V4	6D6	6U7-G
1F7-G	1K7-G	5T4	U52/5U4-G	6D8-G	6A8-G
1G5-G	1L5-G	5V4-G	U52/5U4-G	6E5	Y61
1H5-G	1S5	5W4-GT	5Y3-GT	6F5-GT	6SQ7-GT
1H6-G	1K7-G	5X4-G	U52/5U4-G	6F6-G	6V6-GT
1J5-G	1L5-G	5Y4-G	5Y3-GT	6F8-G	6SN7-GT
1K4	1K5-G	5Z3	U52/5U4-G	6G6-G	6V6-GT
1K6	1K7-G	5Z4	U52/5U4-G	6H6-GT	D77/6ALS
1L4	1T4	6A3	807 (triode)	6J5-GT	6SJ7-GT (triode)
1LA4	3V4	6A4	6V6-GT	6J8-G	X61M
1LA6	1R5	6A7	6A8-G	6K5-GT	6SQ7-GT
1LB4	3V4	6AB5/6N5	Y61	6K6-G	6V6-GT
1LC5	1T4	6AB7	6BA6	6K7-G	6U7-G
1LC6	1R5	6AC7	Z77/6AM6	6K8-G	X61M
1LD5	1S5	6AE5-GT	6SJ7 (triode)	6L5-G	6SJ7-GT (triode)
1LG5	1T4	6AG6-G	KT61	6L6-G	807
1LH4	1S5	6AK6	6AQ5	6N6-G	6V6-GT

Valve Type	Suggested Replacement	Valve Type	Suggested Replacement	Valve Type	Suggested Replacement
6P5-GT	6SJ7-GT (triode)	7Q7	6BE6	34	1M5-G
6Q7-GT	6SQ7-GT	7R7	6AR7-GT	35	6U7-G
6S7-G	6U7-G	7S7	X61M	35A5	KT71
6SA7-GT	6BE6	7V7	6AU6	35L6	KT71
6SC7	6SN7-GT	7W7	6AU6	35Y4	U76
6SF5-GT	6SQ7-GT	7X7	6SQ7-GT	35Z3	U76
6SF7	6AR7-GT	7Y4	6X5-GT	35Z4-GT	U76
6SG7	6BA6	7Z4	5Y3-GT	35Z5-GT	U76
6SH7	6AU6	10	807 (triode)	36	6J7-G
6SL7-GT	6SN7-GT	12A8-GT	X76M	37	6SJ7-GT (triode)
6SS7	6SK7-GT	12F5-GT	DH76	38	6V6-GT
6SX7	6SQ7-GT	12K7-GT	W76	39/44	6U7-G
6T7	6SQ7-GT	12K8	X76M	41	6V6-GT
6U5/6G5	Y61	12Q7-GT	DH76	42	6V6-GT
6W7-G	6J7-G	12SA7	X76M	43	KT71
6Y6-G	KT61	12SF5	DH76	45	KT61 (triode)
6ZYS-G	6X5-GT	12SK7-GT	W76	45Z5-GT	U76
7A4	6SJ7-GT (triode)	12SQ7-GT	DH76	46	807 (triode)
7A5	6V6-GT	12Z3	U76	47	6V6-GT
7A6	D77/6AL5	14A5	KT71	48	KT71
7A7	6SK7-GT	14A7	W76	50	807 (triode)
7A8	X61M	14B6	DH76	50A5	KT71
7AF7	6SN7-GT	14B8	X76M	50L6-GT	KT71
7AG7	6AU6	14C5	KT71	50X6	U76
7AH7	6BA6	14J7	X76M	50Y6-GT	U76
7B4	6SQ7-GT	14Q7	X76M	50Z7-G	U76
7B5	6V6-GT	19	1J6-G	56	6SJ7-GT (triode)
7B6	6SQ7-GT	24A	6J7-G	57	6J7-G
7B7	6SK7-GT	25A6-GT	KT71	58	6U7-G
7B8	6A8-G	25B5	KT71	59	6V6-GT
7C5	6V6-GT	25B6-G	KT71	75	6SQ7-GT
7C6	6SQ7-GT	25C6-G	KT71	76	6SJ7-GT (triode)
7C7	6SJ7-GT	25L6-GT	KT71	77	6J7-G
7E7	6G8-G	25Y5	U76	78	6U7-G
7F8	6SN7-GT	25Z5	U76	80	5Y3-GT
7G7	6AU6	25Z6-GT	U76	81	U52/5U4-G
7H7	6BA6	27	6SJ7-GT (triode)	82	5Y3-GT
7J7	X61M	30	1H4-G	83	U52/5U4-G
7L7	6AU6	32	1K5-G	83-V	U52/5U4-G
7N7	6SN7-GT	33	1L5-G	84	6X5-GT
				89	6V6-GT
				117Z4-GT	U76
				117Z6-GT	U76



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MANUFACTURE: PARRAMATTA ROAD, ASHFIELD, N.S.W.