

THE SUPER RADIOTRON VALVE MANUAL

First Edition, November 1961

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**AMALGAMATED WIRELESS VALVE CO. PTY. LTD.
47 YORK STREET, SYDNEY**

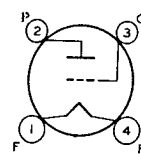
RECEIVING VALVE DATA

Receiving valves in this manual are classified according to the number of electrodes, as follows:

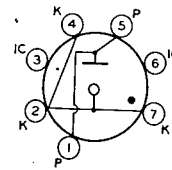
2 Diode	4B Beam Tetrode
2R Rectifier	5 Pentode
3 Triode	6 Hexode
4 Tetrode	7 Heptode

For valve equivalents, see page 98

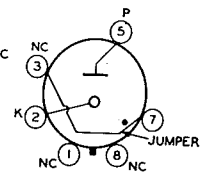
TYPE	Class	Use	E_f volts	I_f amps	E_b volts	E_{c2} volts	E_{c1} volts	I_b ma	I_{c2} ma	r_p M Ω	g_m μ mhos		
00A	3	Grid Leak Detector	5.0	0.25	45		0	1.5		0.03	666	$\mu = 20$	
01A	3	Class A Amplifier	5.0	0.25	90		-4.5	2.5		0.011	725	$\mu = 8.0$	
					135		-9.0	3.0		0.01	800	$\mu = 8.0$	
0A2	2	Voltage Regulator			Starting Voltage = 155 volts Operating Voltage = 150 volts Operating Current = 5.0 to 30 ma								
0A3	2	Voltage Regulator			Starting Voltage = 100 volts Operating Voltage = 75 volts Operating Current = 5.0 to 40.0 ma								
0A4G	3	Relay Tube			Peak Cathode Current = 100 ma Starter Anode Drop = 60 volts DC Cathode Current = 25 ma max.								
0A5	5	Switching			750	Trigger Grid = 90 volts Trigger Grid Res. = 0.25 M Ω Trigger Pulse Voltage = 85 volts							
0B2	2	Voltage Regulator			Starting Voltage = 115 volts Operating Voltage = 108 volts Operating Current = 5.0 to 30 ma								
0B3	2	Voltage Regulator			Starting Voltage = 125 volts Operating Voltage = 90 volts Operating Current = 10.0 to 30 ma								
0C2	2	Voltage Regulator			Starting Voltage = 105 volts Operating Voltage = 75 volts Operating Current = 5.0 to 30 ma								
0C3	2	Voltage Regulator			Starting Voltage = 135 volts Operating Voltage = 105 volts Operating Current = 5.0 to 40 ma								
0D3	2	Voltage Regulator			Starting Voltage = 180 volts Operating Voltage = 150 volts Operating Current = 5.0 to 40 ma								
0G3	2	Voltage Regulator			Starting Voltage = 125 volts Operating Voltage = 85 volts Operating Current = 1.0 to 8.0 ma								
0Y4	2R	Half-wave Rectifier			Max. PIV = 300 volts						Max. Peak $I_b = 500$ ma		
0Y4G					Max. DC Starting Voltage = 95 volts						Max. DC Output = 75 ma		
					AC Voltage/Plate = 117 volts (rms)								
0Z4	2R, 2R	Full-wave Rectifier			Starting Supply Voltage/Plate = 300 min. peak volts Peak Plate Current = 200 ma max. DC Output Current = 75 ma max. 30 ma min. DC Output Voltage = 300 volts max.								
0Z4A	2R, 2R	Full-wave Rectifier			Starting Supply Volts/Plate = 300 volts (rms) DC Output Current = 110 ma max. 30 ma min.								
0Z4G	2R, 2R	Rectifier			See 0Z4 Characteristics								
1A3	2	Detector Rectifier	1.4	0.15	Max. PIV = 330 volts						Max. DC Output = 0.5 ma		
					Max. Peak Plate Current = 5.0 ma						Max. DC H-K Voltage = 140 v		
1A4P	5	Amplifier	2.0	0.06	See 1D5GP Characteristics								
1A5GT	5	Class A Amplifier	1.4	0.05	85	85	-4.5	3.5	0.7	0.3	800	$R_L = 25K\Omega$ $W_o = 0.10$ watts $R_L = 25 K\Omega$ $W_o = 0.115$ watts	
					90	90	-4.5	4.0	0.8	0.3	850		
1A6	7	Converter	2.0	0.06	135	67.5	-3.0	1.2	2.5	0.4	275	$R_{g1} = 50K\Omega$ $I_{c1} = 0.2$ ma	
					180	G_{3+5} 67.5	G_4 -3.0	1.3	2.4	0.5	300		
1A7GT	7	Converter	1.4	0.05	90	G_{3+5}	G_4				g_c	$E_{c2} = 90$ v, 1.2 ma $R_{g1} = 200 K\Omega$ $I_{c1} = 0.035$ ma	
						45	0				250		



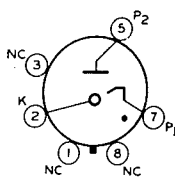
00-A
01-A



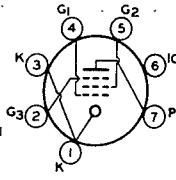
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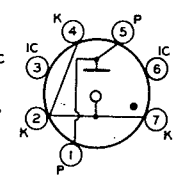
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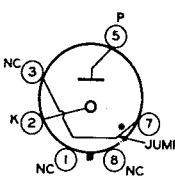
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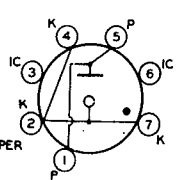
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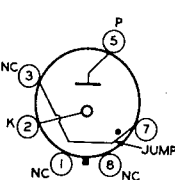
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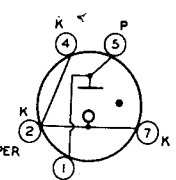
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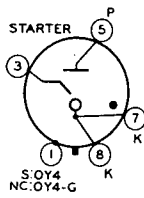
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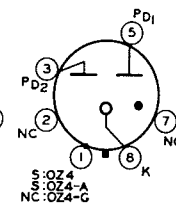
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0D3



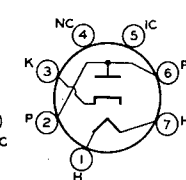
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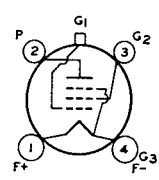
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0Y4-G



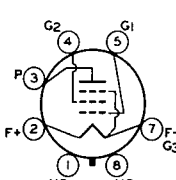
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0Z4-A
0Z4-G



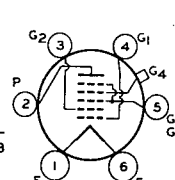
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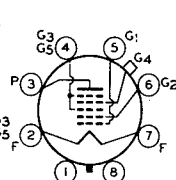
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1A5-GT



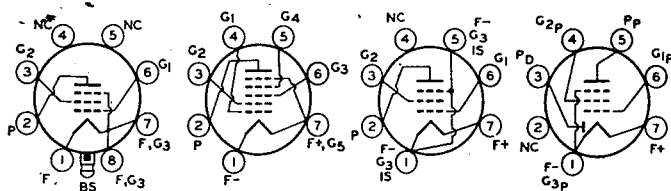
1A6



1A7-GT

TYPE	Class	Use	E_r volts	I_r amps	E_b volts	E_{c2} volts	E_{c1} volts	I_b ma	I_{c2} ma	r_p M Ω	g_m μ mhos		
1AB5	5	RF Amplifier	1.2	0.13	90 150	90 150	0 -1.5	3.5 6.8	0.8 2.0	0.275 0.125	1100 1350		
1AB6	7	Converter	1.4	0.025	85	G_4 65	G_3 0	0.65	G_4 0.17		g_c 300	$E_{c2} = 35$ v, 1.5 ma $R_{g1} = 27$ K Ω $I_{c1} = 85$ μ a	
1AC6	7	Converter	1.4	0.05	85	G_4 60	G_3 0	0.65	0.14	1.0	g_c 325	$E_{c2} = 30$ v, 1.65 ma $R_{g1} = 27$ K Ω $I_{c1} = 0.13$ ma	
1AE4	5	RF Amplifier	1.25	0.1	90	90	0	3.5	1.2	0.5	1550		
1AF5	2, 5	Detector Amplifier	1.4	0.025	90	90	0	1.1	0.4	2.0	600		
1AH5	2, 5	Detector Amplifier	1.4	0.025	90	90	0	1.1	0.4	1.6	400		
1AJ4	5	RF Amplifier	1.4	0.025	90	90	0	1.65	0.55	1.0	750		
1AM4	5	RF Amplifier	1.4	0.025	90	67.5	0	2.4	0.9	0.5	350	G_1 voltage for 10 μ mhos = -16 volts	
1AQ5	7	Converter	1.4	0.025	90	G_{2+4} 45	G_3 0	0.64	0.8		g_c 250	$R_{g1} = 0.1$ M Ω $I_{c1} = 0.14$ ma	
1AR5	2, 5	Amplifier	1.4	0.025	67.5	67.5	0	0.9	0.25	0.8†	500		
1AS5	2, 5	Amplifier	1.4	0.025	67.5	67.5	0	0.9	0.25	0.8†	500		
1AX2	2R	EHT Rectifier	1.4	0.65	Max. PIV = 25,000 volts						Max. Average Plate Current = 1 ma		
1B3GT	2R	EHT Rectifier	1.25	0.2	Max. PIV = 30,000 volts						Max. Average Plate Current = 2 ma		
1B4P	5	Amplifier	2.0	0.06	See 1E5GP Characteristics							Max. Supply Freq. = 300 Kc	
1B7GT	7	Converter	1.4	0.10	90	G_4 45	G_3 0	1.5	G_4 1.3	0.35	g_c 350	$E_{c2} = 90$ v, 1.6 ma $R_{g1} = 0.2$ M Ω	
1C3	3	Amplifier	1.4	0.05	90 90	—	0 -3.0	4.5 1.4	—	-0.112† -0.19†	1300 760	$\mu = 14.5$ $\mu = 14.5$	
1C4	5	RF Amplifier	2.0	0.12	See 1M5G Characteristics								
1C5GT	7	Class A Amplifier	1.4	0.10	83 90	83 90	-7.0 -7.5	7.0 7.5	1.6 1.6	0.11 0.115	1500 1550	$R_L = 9.0$ K Ω , $W_o = 0.2$ watts, $\mu = 165$ $R_L = 8.0$ K Ω , $W_o = 0.24$ watts, $\mu = 180$	
1C6	7	Converter	2.0	0.12	See 1C7G Characteristics								
1C7G	7	Converter	2.0	0.12	135 180	67.5 G_{3+5} 67.5	-3.0 G_4 -3.0	1.3 1.5	2.5 2.0	0.6 0.7	300 g_c 325	$E_{c2} = 180$ v, 4.0 ma $R_{g1} = 50$ K Ω $I_{c1} = 0.2$ ma	

† Approx.

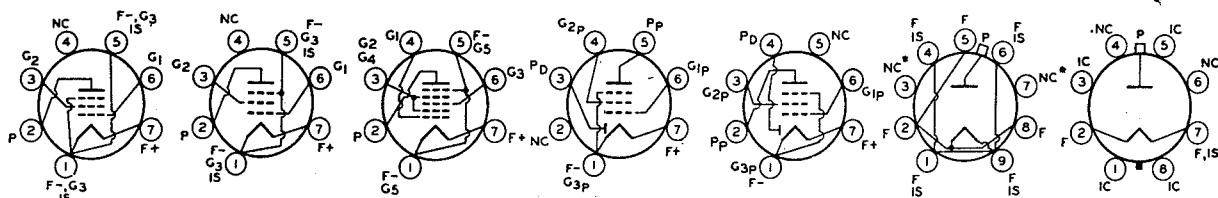


1AB5

1AB6
1AC6

1AE4
1AF4

1AF5
1AH5



1AJ4

1AM4

1AQ5

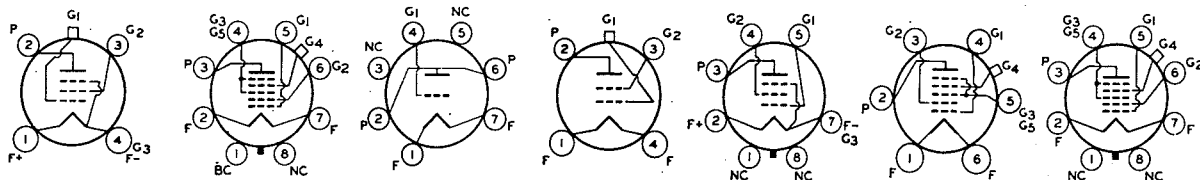
1AR5

1AS5

1AX2

1B3-GT

*May be connected to filament, otherwise do not use.



1B4-P

1B7-GT

1C3

1C4

1C5-GT

1C6

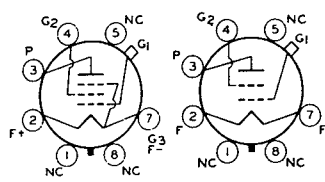
1C7-G

TYPE	Class	Use	E_r volts	I_r amps	E_b volts	E_{c2} volts	E_{c1} volts	I_b ma	I_{c2} ma	r_p M Ω	g_m μ mhos	
1D5GP	5	Class A Amplifier	2.0	0.06	90 180	67.5 67.5	$\left. \begin{matrix} -3.0 \\ \text{min.} \end{matrix} \right\}$	2.2 2.3	0.9 0.8	0.6 1.0	720 750	
1D5GT	4	Class A Amplifier	2.0	0.06	180	67.5	-3.0	2.2	0.7	0.6	650	
1D7G	7	Converter	2.0	0.06	See 1A6 Characteristics							
1D8GT	2, 3, 5	Pentode Amplifier	1.4	0.10	90	90	-9.0	5.0	1.0	0.2	925	$R_L = 12.0 \text{ K}\Omega$, $W_o = 0.2 \text{ watts}$
		Triode Amplifier			45	—	0	0.3	—	0.077	325	$\mu = 25$
		90			—	0	1.1	—	0.0435	575	$\mu = 25$	
1DN5	2, 5	Class A Amplifier	1.4	0.5	67.5	67.5	0	2.1	0.55	0.6	630	
1E3	3	UHF Amplifier	1.25	0.2	150	—	-3.5	20	—	—	3500	$W_o = 0.45 \text{ watts at } 470 \text{ Mc}$ $\mu = 14$
1E5GP	5	Class A Amplifier	2.0	0.06	90 180	67.5 67.5	-3.0 -3.0	1.6 1.7	0.7 0.6	1.0 1.5	600 650	
1E7GT	5, 5	Class A Amplifier	2.0	0.24	135	135	-7.5	7.0	2.0	—	—	$R_L = 24 \text{ K}\Omega$, $W_o = 0.575 \text{ watts}$
1F4	5	Amplifier	2.0	0.12	See 1F5G Characteristics							
1F5G	5	Class A Amplifier	2.0	0.12	90	90	-3.0	4.0	1.1	0.24	1400	$R_L = 20.0 \text{ K}\Omega$, $W_o = 0.11 \text{ watts}$
					135	135	-4.5	8.0	2.4	0.2	1700	$R_L = 16.0 \text{ K}\Omega$, $W_o = 0.31 \text{ watts}$
1F6	2, 2, 5	Pentode Amplifier	2.0	0.06	See 1F7G Characteristics							
1F7G	2, 2, 5	Pentode RF Amplifier	2.0	0.06	180	67.5	-1.5	2.2	0.7	1.0	650	$R_L = 24.0 \text{ K}\Omega$, $W_o = 0.57 \text{ watts}$
		Pentode AF Amplifier			135	135	-2.0	—	—	—	—	—
1G3GT/ 1B3GT	2R	TV Damper Diode	1.25	0.2	Max. PIV = 26,000 volts (Abs.) Max. Average Plate Current = 0.5 ma Max. Peak Plate Current = 50 ma							
		HV Rect. (RF)			Max. PIV = 33,000 volts (Abs.) Max. Average Plate Current = 1.0 ma Max. Peak Plate Current = 30 ma							
1G4GT	3	Class A Amplifier	1.4	0.05	90	—	-6.0	2.3	—	0.0107	825	$\mu = 8.8$
1G5G	5	Class A Amplifier	2.0	0.12	90	90	-6.0	8.5	2.5	0.133	1500	$R_L = 8.5 \text{ K}\Omega$, $W_o = 0.25 \text{ watts}$
					135	135	-13.5	8.7	2.5	0.16	1550	$R_L = 9.0 \text{ K}\Omega$, $W_o = 0.55 \text{ watts}$
1G6GT	3, 3	Class B Amplifier	1.4	0.10	90	—	0	1.0	—	0.045	675	$R_L = 12,000 \Omega \dagger$, $\mu = 33$ $W_o = 0.35 \text{ watts}$
1H2	2R	Flyback Half-wave Rectifier	1.4	0.55	Max. PIV = 24,000 volts Max. Peak Plate Current = 50 ma Max. Average Plate Current = 0.5 ma							
1H4G	3	Class A Amplifier	2.0	0.06	90	—	-4.5	2.5	—	0.011	850	$\mu = 9.3$
		Class B Amplifier			180	—	-13.5	3.1	—	0.0103	900	$\mu = 9.3$
					157.5	—	-15.0	1.0	—	$R_L = 8.0 \text{ K}\Omega$, $W_o = 2.1 \text{ watts} \blacktriangledown$		
1H5GT	2, 3	Triode Class A Amplifier	1.4	0.05	90	—	0	0.15	—	0.24	275	$\mu = 65$
1H6G	2, 2, 3	Triode Class A Amplifier	2.0	0.06	135	—	-3.0	0.8	—	0.035	575	$\mu = 20$

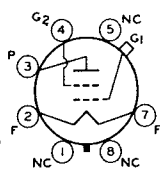
▼ Two valves.

● Plate supply voltage.

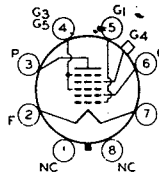
†Plate-to-plate.



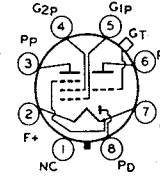
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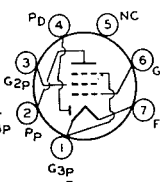
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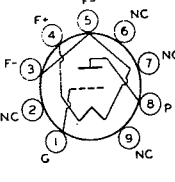
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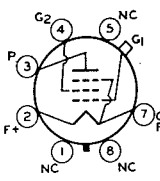
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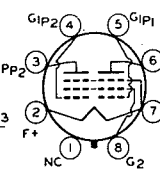
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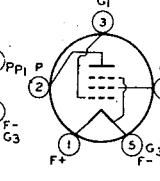
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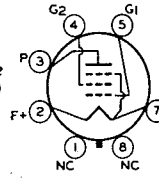
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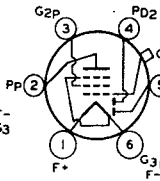
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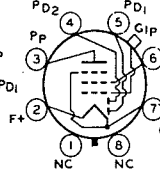
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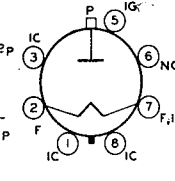
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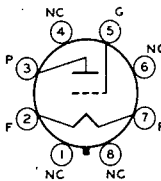
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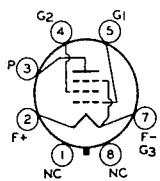
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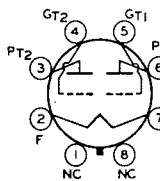
1G3-GT/1B3-GT



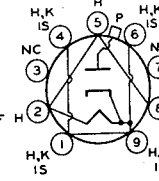
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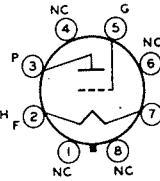
1G5-G



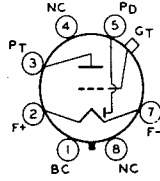
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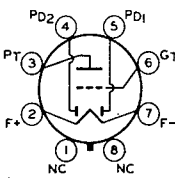
1H2



1H4-G



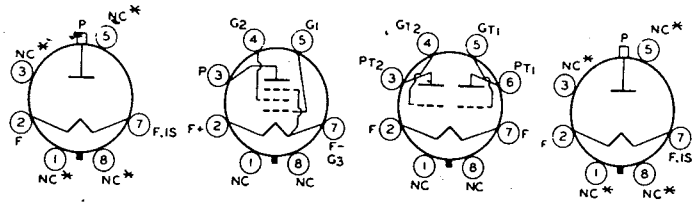
1H5-GT



1H6-G

TYPE	Class	Use	E_f volts	I_f amps	E_b volts	E_{c2} volts	E_{c1} volts	I_b ma	I_{c2} ma	r_p M Ω	g_m μ mhos	
1J3	2R	Flyback Half-wave Rectifier	1.25	0.2	Max. PIV = 26,000 volts Max. Average Plate Current = 0.5 ma Max. Peak Plate Current = 50 ma							
1J5G	5	Class A Amplifier	2.0	0.12	135	135	-16.5	7.0	2.0	0.105	950	$R_L = 13.5 \text{ K}\Omega$, $W_o = 0.45 \text{ watts}$
1J6G 1J6GT	3, 3	Class B Amplifier	2.0	0.24	135 135		0 -3.0	10.0 3.4				$R_L = 10.0 \text{ K}\Omega$, $W_o = 2.1 \text{ watts}$ $R_{L1} = 10.0 \text{ K}\Omega$, $W_o = 1.9 \text{ watts}$
1K3	2R	Flyback Half-wave Rectifier	1.25	0.2	Max. PIV = 26,000 volts Max. Peak Plate Current = 50 ma Max. Average Plate Current = 0.5 ma							
1L4	5	Class A Amplifier	1.4	0.05	90 90	67.5 90	0 0	2.9 4.5	1.2 2.0	0.6 0.35	925 1025	
1L6	7	Converter	1.4	0.05	90	G_{3+5} 45	G_4 0	0.5	0.6	0.65	g_c 300	$E_{c2} = 90 \text{ v}$, 1.2 ma $R_{g1} = 0.2 \text{ M}\Omega$
1LA4	5	Amplifier	1.4	0.05	See 1A5GT Characteristics							
1LA6	7	Converter	1.4	0.05	90	G_{3+5} 45	G_4 0	0.55	0.6	0.75	g_c 250	$E_{c2} = 90 \text{ v}$, 1.2 ma $R_{g1} = 0.2 \text{ M}\Omega$ $I_{c1} = 35 \mu\text{a}$
1LB4	5	Class A Amplifier	1.4	0.05	See 1D8GT Characteristics							
1LC5	5	Class A Amplifier	1.4	0.05	45 90	45 45	0 0	1.10 1.15	0.35 0.30	0.7 1.0	750 775	
1LC6	7	Converter	1.4	0.05	90	G_{3+5} 35	G_4 0	0.75	0.7	0.65	g_c 275	$E_{c2} = 45 \text{ v}$, 1.4 ma $R_{g1} = 0.2 \text{ M}\Omega$ $I_{c1} = 35 \mu\text{a}$
1LD5	2, 5	Pentode Class A Amplifier	1.4	0.05	90	45	0	0.6	0.1	0.75	575	
1LE3	3	Class A Amplifier	1.4	0.05	90 90	— —	0 -3	4.5 1.4	—	0.012 0.019	1300 760	$\mu = 14.5$ $\mu = 14.5$
1LF3	3	Amplifier	1.4	0.05	90		-3	1.4			760	$\mu = 14.5$
1LG5	5	Class A Amplifier	1.4	0.05	90 90	45 90	0 -1.5	1.7 3.7	0.4 0.9	1.0 0.5	800 1150	
1LH4	2, 3	Triode Class A Amplifier	1.4	0.05	See 1H5GT Characteristics							
1LN5	5	Class A Amplifier	1.4	0.05	90	90	0	1.6	0.35	1.1	800	
1N5GT	5	Class A Amplifier	1.4	0.05	90	90	0	1.2	0.3	1.5	750	
1N6G	2, 5	Pentode Class A Amplifier	1.4	0.05	90	90	-4.5	3.4	0.7	0.3	800	$R_L = 25 \text{ K}\Omega$, $W_o = 0.1 \text{ watts}$

† Plate to plate.

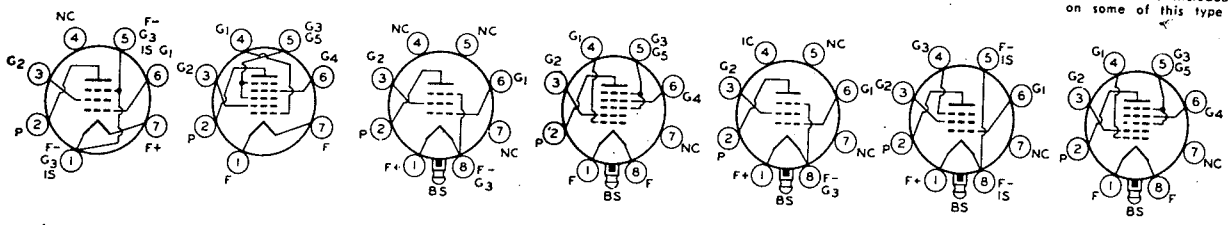


TJ3
*May be connected to filament, otherwise do not use.

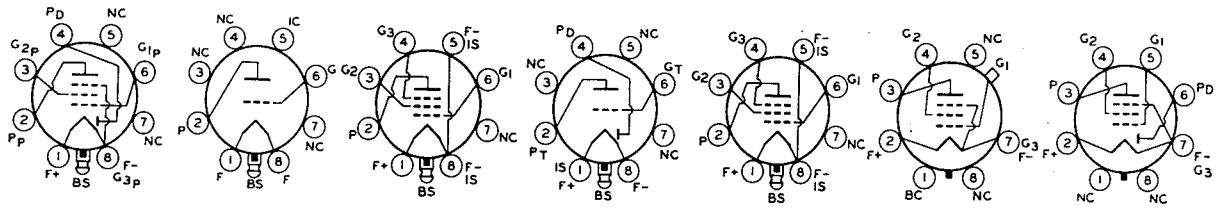
1J5-G

1J6-G
1J6-GT

1K3
*May be connected to filament, otherwise do not use.
Pins 4 and 6 included on some of this type



1L4 **1L6** **1LA4** **1LA6** **1LB4** **1LC5** **1LC6**



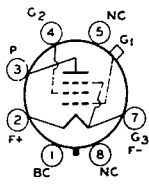
1LD5 **1LE3**
1LF3 **1LG5** **1LH4** **1LN5** **1N5-GT** **1N6-G**

TYPE	Class	Use	E_r volts	I_r amps	E_b volts	E_{c2} volts	E_{c1} volts	I_b ma	I_{c2} ma	r_p M Ω	g_m μ mhos		
1P5GT	5	Class A Amplifier	1.4	0.05	90	90	0	2.3	0.7	0.8	750		
1Q5GT	5	Class A Amplifier	1.4	0.1	90	90	-4.5	9.5	1.3	0.09	2200	$R_L = 8\text{ K}\Omega$, $W_o = 0.27\text{ watts}$	
1R5	7	Converter	1.4	0.05	90 67.5	67.5 67.5	0 0	1.6 1.4	3.2 3.2	0.6 0.5	300 g_c 280	$R_{g1} = 100\text{ K}\Omega$ $I_{c1} = 0.25\text{ ma}$	
1S2 1S2A	2R	Pulsed Rectifier	1.4	0.55	Max. PIV = 27,000 volts (Abs.) Average Plate Current = 0.8 ma Peak Plate Current = 40 ma								
1S4	5	Class A Amplifier	1.4	0.1	45 90	45 67.5	-4.5 -7.0	3.8 7.4	0.8 1.4	0.1 0.1	1250 1570	$R_L = 8.0\text{ K}\Omega$, $W_o = 0.065\text{ watts}$ $R_L = 8.0\text{ K}\Omega$, $W_o = 0.27\text{ watts}$	
1S5	2, 5	Pentode Class A Amplifier	1.4	0.05	67.5	67.5		1.6	0.4	0.6	625	$R_{g1} = 10\text{ M}\Omega$ $R_{g2} = 3.1\text{ M}\Omega$	
1T4	5	Class A Amplifier	1.4	0.05	45 90	45 67.5	0 0	1.7 3.5	0.7 1.4	0.35 0.5	700 900		
1T5GT	5	Power Amplifier	1.4	0.05	90	90	-6.0	6.5	0.8	0.25	1150	$R_L = 14\text{ K}\Omega$, $W_o = 0.17\text{ watts}$	
1T6	2, 5	Pentode Class A Amplifier	1.25	0.04	30 45 67.5	30 45 67.5	0 0 0	0.33 0.75 1.6	0.10 0.21 0.4	0.5 0.5 0.4	330 475 600		
1U4	5	Class A Amplifier	1.4	0.05	90	90	0	1.0	0.5	1.0	900		
1U5	2, 5	Pentode Class A Amplifier	1.4	0.05	67.5	67.5	0	1.6	0.4	0.6	625	$R_{g1} = 10\text{ M}\Omega$ $R_{g2} = 3.1\text{ M}\Omega$	
1U6	7	Converter	1.4	0.025	90	G_{3+5} 45	G_4 0	0.55	G_{3+5} 0.55	0.6	g_c 275	$E_{c2} = 90\text{ v}$, 1.1 ma $R_{g1} = 0.2\text{ M}\Omega$ $I_{c1} = 35\text{ }\mu\text{a}$	
1V	2R	Half-wave Rectifier	6.3	0.3	Max. AC Plate Voltage = 325 volts (rms) Max. DC Output Current = 45 ma								
1V2	2R	Half-wave Rectifier	0.625	0.3	Max. PIV = 7500 volts Max. Peak Plate Current = 10 ma Max. Average Plate Current = 0.5 ma								
1W4	5	Power Amplifier	1.4	0.05	90	90	-9.0	5.0	1.0	0.25	925	$R_L = 12.0\text{ K}\Omega$, $W_o = 0.2\text{ watts}$	
1X2	2R	Rectifier	1.25	0.2	Max. PIV = 15,000 volts Max. Average Plate Current = 1 ma								
1X2A	2R	EHT Rectifier	1.25	0.2	Max. PIV = 18,000 volts Max. Peak Plate Current = 10 ma Max. Average Plate Current = 1 ma								
1X2B	2R	EHT Rectifier	1.25	0.2	Max. PIV = 22,000 volts Max. Peak Plate Current = 45 ma Max. Average Plate Current = 0.5 ma								
1Y2	2R	Half-wave Rectifier	1.5	0.29	Max. PIV = 50,000 volts Output Plate Current = 2.0 ma								
1Z2	2R	Half-wave Rectifier	1.5	0.3	Plate Voltage = 7800 volts (rms) DC Output Current = 2.0 ma								
2A3	3	Class A Amplifier	2.5	2.5	250		-45.0	60.0	—	800	5250	$R_L = 2.5\text{ K}\Omega$, $W_o = 3.5\text{ watts}$, $\mu = 4.2$	
		P.P. Class AB1 Amplifier			300 300		* -6.2V	80.0V 80.0V			$R_L = 5.0\text{ K}\Omega$, $W_o = 10.0\text{w}$ ▼ $R_L = 3.0\text{ K}\Omega$, $W_o = 15.0\text{w}$ ▼		

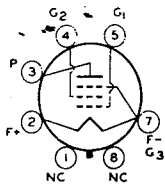
*See quoted value of R_k

▼ Fixed bias

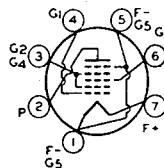
▼ Two valves



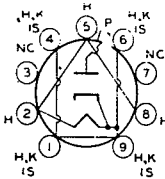
1P5-GT



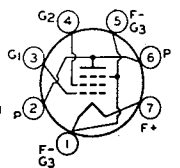
1Q5-GT



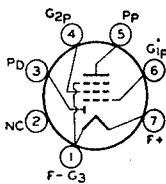
1R5



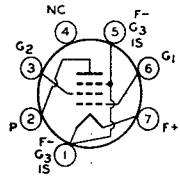
1S2
1S2-A



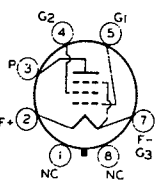
1S4



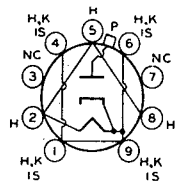
1S5



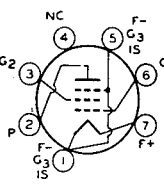
1T4



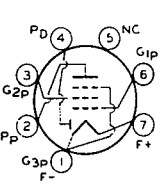
1T5-GT



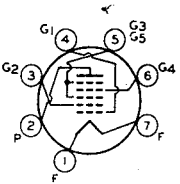
1S2
1S2-A



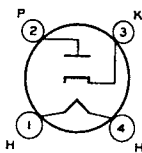
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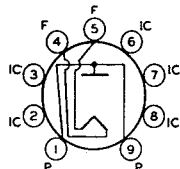
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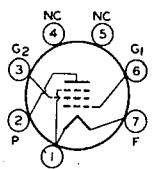
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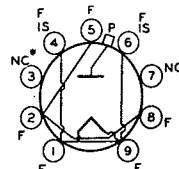
1-v



1V2

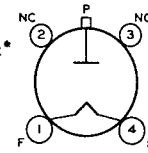


1W4

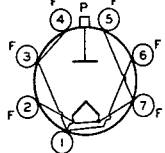


1X2
1X2-A, B

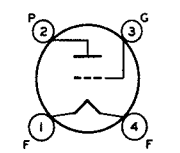
*May be connected to filament, otherwise do not use.



1Y2



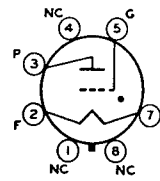
1Z2



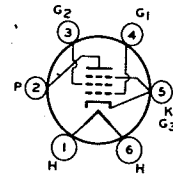
2A3

TYPE	Class	Use	E_f volts	I_f amps	E_b volts	E_{c2} volts	E_{c1} volts	I_b ma	I_{c2} ma	I_p M Ω	μ_m μ hos	
2A4-G	3	Relay Tube	2.5	2.5	Max. PIV = 200 volts Max. Plate Voltage = 200 volts Max. Peak Plate Current = 1.25 amps Max. Average Plate Current = 0.1 amp.							
2A5	5	Amplifier	2.5	1.75	See 6F6G Characteristics							
2A6	2, 2, 3	Triode Amp.	2.5	0.8	See 6SQ7 Characteristics							
2A7	7	Converter	2.5	0.8	See 6A8 Characteristics							
2AF4 2AF4-A 2AF4-B	3	Class A Amp.	2.35	0.6	80		*	16		0.00227	6600	$R_k = 150 \Omega$
		100					20		0.00213	7500		
		UHF Oscillator			100		-4	22	$R_{g1} = 10 K\Omega$, $W_o = 160$ mw		$I_{c1} = 400 \mu a$, $R_{g1} = 10 K\Omega$	
2B3	2R	Rectifier			Max. PIV = 27,000 volts Max. Output Current = 50 ma							
2B4	3	Relay Tube	2.5	1.4	Tube drop = 19 volts Max. Plate Voltage = 300 volts Max. Peak Plate Current = 300 ma							
2B7	2, 2, 5	Pentode Amplifier	2.5	0.8	See 6B8-G Characteristics							
2BN4	3	VHF Amplifier	2.3	0.6	150		*	9.0		0.0063	6800	$R_k = 220 \Omega$, $\mu = 43$
2BN4A	3	VHF Amplifier	2.35	0.6	See 6BN4-A Characteristics							
2CY5	4	Class A Amplifier	2.4	0.6	125	80	-1.0	10.0	1.5	0.1	8000	
2E5		Tuning Indicator	2.5	0.8	See 6E5 Characteristics							
2EA5	4	VHF Amplifier	2.4	0.6	See 6EA5 Characteristics							
2EN5	2, 2	Phase Comparator	2.1	0.45	Diode current for continual operation = 5.0 ma each plate							
2G5		Tuning Indicator	2.5	0.8	Target Voltage = 250 volts Target Current = 4.0 ma							
2T4	3	UHF Oscillator	2.35	0.6	See 6T4 Characteristics							
2V3-G	2R	Rectifier	2.5	5.0	AC Plate Voltage = 6000 volts (rms) PIV = 16,500 volts DC Output Current = 2.0 ma							
2X2 2X2A	2R	Half-wave Rectifier	2.5	1.75	AC Plate Voltage = 5500 volts (rms) Max. Peak Plate Current = 60 ma DC Output Current = 7.5 ma Max. PIV = 12,500 volts							
2X3G	2R	Rectifier	2.5	2.0	Max. PIV = 1400 volts Max Peak Plate Current = 375 ma							
2Y2	2R	Half-wave Rectifier	2.5	1.75	Max. PIV = 12,000 volts Max. DC Output Current = 5.0 ma							
2Z2	2R	Rectifier	2.5	1.5	Max. AC Plate Voltage = 350 volts (rms) per plate Max. Output Current = 50 ma							
3A2	2R	Half-wave Rectifier	3.15	0.22	Max. PIV = 18,000 volts Max. Peak Plate Current = 80 ma Max. Average Plate Current = 1.5 ma							
3A3	2R	Half-wave Rectifier	3.15	0.22	Max. PIV = 30,000 volts Max. Peak Plate Current = 80 ma Max. Average Plate Current = 1.5 ma							
3A4	5	Power Amplifier	1.4 2.8	0.2 0.1	150	90	-8.4	13.3	2.2	0.1	1900	$R_L = 8.0 K\Omega$, $W_o = 0.7$ watts
3A5	3, 3	HF Amplifier	1.4 2.8	0.22 0.11	90	—	-2.5	3.7	—	0.0083	1800	At $E_b = 135$ v, $I_b = 30$ ma, Class C $W_o = 2$ w

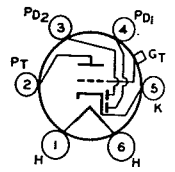
* See quoted value of R_k .



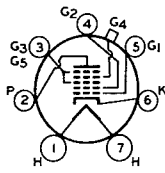
2A4-G



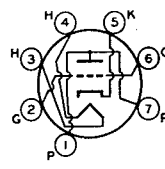
2A5



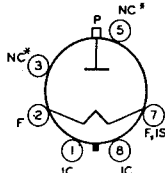
2A6



2A7

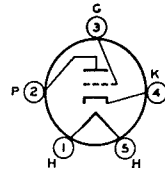


2AF4
2AF4-A
2AF4-B

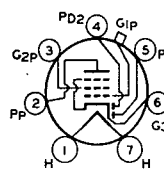


2B3

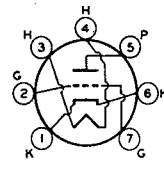
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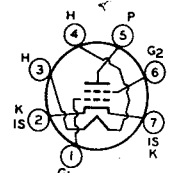
2B4



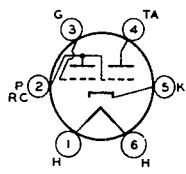
2B7



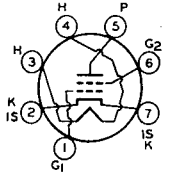
2BN4
2BN4-A



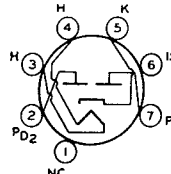
2CY5



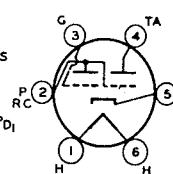
2E5



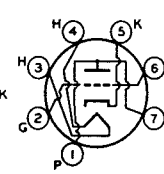
2EA5



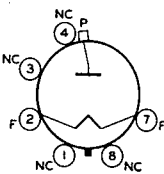
2EN5



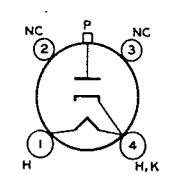
2G5



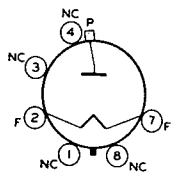
2T4



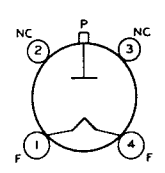
2V3-G



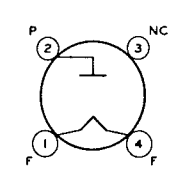
2X2
2X2-A



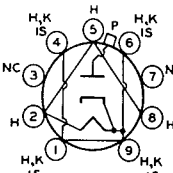
2X3-G



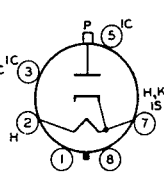
2Y2



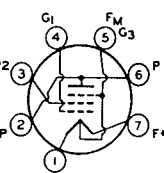
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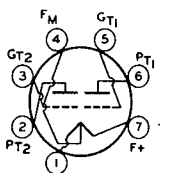
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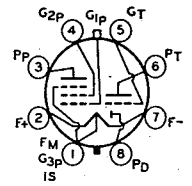
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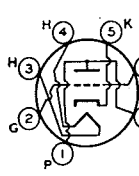
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TYPE	Class	Use	E_r volts	I_r amps	E_b volts	E_{c2} volts	E_{c1} volts	I_b ma	I_{c2} ma	r_p M Ω	g_m μ mhos		
3A8GT	2, 3, 5	Triode Amplifier	1.4	0.1	90	—	0	0.2	—	0.2	325	$\mu = 65$	
		Pentode Amplifier	2.8	0.05	90	90	0	1.5	0.5	0.8	750		
3AF4A	3	Amplifier	3.2	0.45	100	—	*	16	—	0.0227	6600	$R_k = 150 \Omega$	
		Oscillator			100	—	-4	22	—	0.0213	7500		
		$R_{g1} = 10 \text{ K}\Omega$ $I_{c1} = 400 \mu\text{a}$ Useful $W_o = 160 \text{ mw}$											
3AL5	2, 2	Detector Rectifier	3.15	0.6	Max. PIV = 330 volts Max. DC Output Current/Plate = 9.0 ma								
		Max. Peak H-K = 330 volts Max. Peak Plate Current/Plate = 54 ma											
3AU6	5	Class A Amplifier	3.15	0.6	100	100	*	5.0	2.1	0.5	3960	$R_k = 150 \Omega$	
					250	150		10.6	4.3	1.0	5200	$R_k = 68\Omega$	
3AV6	2, 2, 3	Triode Amplifier	3.15	0.6	100	—	-1.0	0.5	—	0.08	1250	$\mu = 100$	
					250	—	-2.0	1.2	—	0.0625	1600	$\mu = 100$	
3B2	2R	EHT Rectifier	3.15	0.22	Max. PIV = 35,000 volts Max. Average Plate Current = 1.1 ma								
		Max. DC Inverse Voltage = 25,000 volts											
		Max. Peak Plate Current = 80 ma											
3B4	5	VHF Power Amp.	2.5	0.165	150	135	-75	—	—	—	1700	$W_o = 1.25 \text{ watts}$	
			1.25	0.330									
3B5GT	5	Power Amplifier	1.4	0.10	45	45	-4.5	4.4	0.3	0.1	1400	$R_L = 8.0 \text{ K}\Omega$, $W_o = 0.07 \text{ watts}$	
			2.8	0.05	67.5	67.5	-7.0	6.7	0.5	0.1	1500		$R_L = 5.0 \text{ K}\Omega$, $W_o = 0.18 \text{ watts}$
3BA6	5	RF Amplifier	3.15	0.6	See 6BA6 Characteristics								
3BC5	5	Class A Amplifier	3.15	0.6	250	150	*	7.5	2.1	0.8	5700	$R_k = 180 \Omega$	
3BE6	7	Converter	3.15	0.6	See 6BE6 Characteristics								
3BN4	3	VHF Amplifier	3.0	0.45	150	—	*	9.0	—	0.0063	6800	$R_k = 220 \mu = 43$	
3BN4A	3	VHF Amplifier	3.0	0.45	See 6BN4A Characteristics								
3BN6	5	Limiter and Discriminator	3.15	0.6	Max. DC Plate Voltage = 300 volts Max. Pos. Peak G_1 Voltage = 55 volts								
		Max. G_2 Voltage = 100 volts											
		Max. Peak H-K Voltage = 90 volts Max. Cathode Current = 11.5 ma											
3BU8	5, 5	Class A Amplifier	3.15	0.6	100	67.5	■	2.2	3.3	—	180	$E_{c3} = 0$	
3BY6	7	Sync. Sep. and Sync. Clipper	3.15	0.6	10	25	0	1.4	3.5	—	—	$E_{c3} = 0$	
3BZ6	5	Class A Amplifier	6.3	0.3	200	150	*	11	2.6	0.6	6100	$R_k = 180 \Omega$	
3C2	2R	Half-wave Rectifier	3.5	0.21	Max. PIV = 33,000 volts								
		Max. Peak Output Current = 80 ma											
		Max. Average Plate Current = 1.1 ma											
3C4	5	Power Amplifier	1.4	0.05	85	85	-5.2	5.0	1.1	0.125	1350	$R_L = 13 \text{ K}\Omega$, $W_o = 0.2 \text{ watts}$	
3C5GT	5	Power Amplifier	1.4	0.1	90	90	-9.0	6.0	1.4	—	1550	$R_L = 8.0 \text{ K}\Omega$, $W_o = 0.24 \text{ watts}$	
			2.8	0.05	90	90	-9.0	6.0	1.4	—	1450		$R_L = 10.0 \text{ K}\Omega$, $W_o = 0.26 \text{ watts}$
3CB6	5	Class A Amplifier	3.15	0.6	200	150	—	9.5	2.8	0.6	6200	$R_k = 180 \Omega$	
3CE5	5	RF Amplifier	3.15	0.6	See 6CE5 Characteristics								
3CF6	5	Class A Amplifier	3.15	0.6	200	150	-6.5	9.5	2.8	0.6	6200	$R_k = 180 \Omega$	

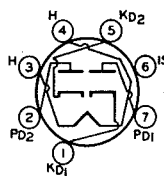
* See quoted value of R_k .■ Adjusted for $I_{g1} = 100 \mu\text{a}$ dc.



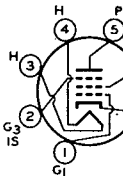
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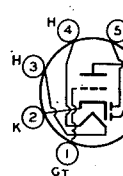
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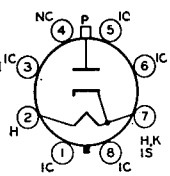
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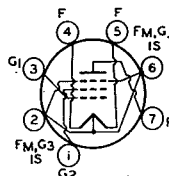
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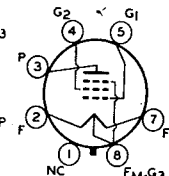
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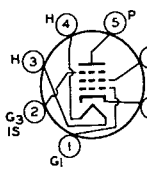
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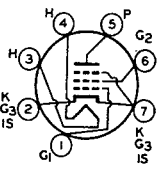
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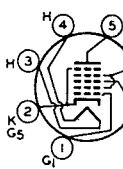
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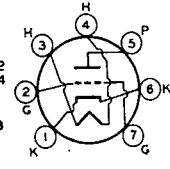
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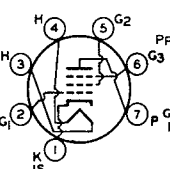
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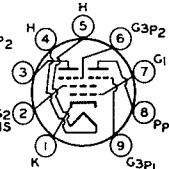
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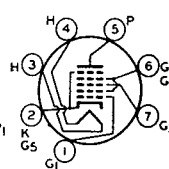
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3BN4-A**



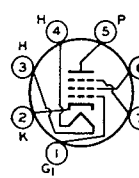
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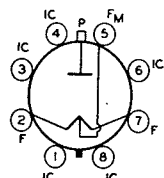
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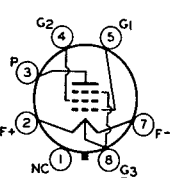
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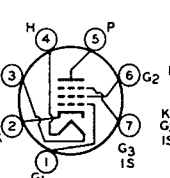
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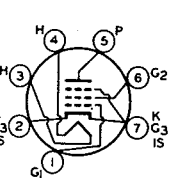
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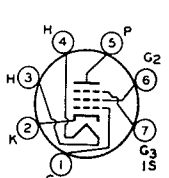
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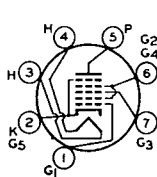
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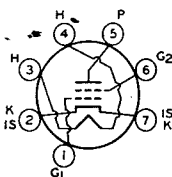
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TYPE	Class	Use	E_r volts	I_r amps	E_b volts	E_{c2} volts	E_{c1} volts	I_b ma	I_{c2} ma	r_p M Ω	g_m μ mhos	
3CS6	7	Sync. Sep. and Sync. Clipper	3.15	0.6	10	30		2.0	4.5	G _s Volts = 0 G ₁ Volts = 0		
		Class A Amp.			100 100	30 30	-1.0 0	0.8 1.0	5.5 1.3	0.7 1.0	— 1100	
3CY5	4	Class A Amplifier	2.9	0.45	125	80	-1.0	10	1.5	0.1	8000	
3D6	5	Power Amplifier	2.8	0.110	150	90	-4.5	10.2	1.8		2400	R _L = 14.0 K Ω ,
			1.4	0.220	150	135	-20.0	23.0	6.0			W _o = 0.6 watts
3DK6	5	IF Amplifier	3.15	0.6	125	125	*	12.0	3.8		9800	R _k = 56 Ω
3DT6	5	Class A Amp.	3.15	0.6	150	100	*	1.1	2.1	0.15	615	R _k = 560 Ω
		FM Detector			250	100	*	0.22	5.5	G _s Volts = -6 R _L = 270 K Ω R _k = 560 Ω		
3E5	5	Power Amplifier	1.4	0.05	90	90	-8.0	6.0	1.5	0.14	1200	R _L = 8.0 K Ω ,
			2.8	0.025	90	90	-8.0	5.5	1.5	0.12	1100	W _o = 0.2 watts R _L = 8.0 K Ω , W _o = 0.175 watts
3E6	5	Voltage Amplifier	1.4	0.1	90	90	0	4.2	1.7	0.25	2000	
			2.8	0.05	90	90	0	2.9	1.2	0.325	1700	
3EA5	4	VHF Amplifier	2.9	0.45	See 6EA5 Characteristics							
3LE4	5	Power Amplifier	2.8	0.05	90	90	-9.0	9.0	1.8	0.11	1600	R _L = 6.0 K Ω ,
			1.4	0.10	90	90	-9.0	10.0	2.0	0.10	1750	W _o = 0.3 watts R _L = 6.0 K Ω , W _o = 0.325 w
3LF4	5	Class A Amplifier	1.4	0.1	See 3Q5GT Characteristics							
			2.8	0.05								
3Q4	5	Class A Amplifier	1.4	0.1	See 3V4 Characteristics							
			2.8	0.05								
3Q5G 3Q5GT	5	Class A Amplifier	1.4	0.1	110	110	-6.6	10.0	1.4	0.1	2200	R _L = 8.0 K Ω ,
			2.8	0.05	110	110	-6.6	8.5	1.1	0.11	2000	W _o = 0.4 watts R _L = 8.0 K Ω , W _o = 0.33 watts
3S4	5	Class A Amplifier	1.4	0.1	90	67.5	-7.0	7.4	1.4	6.1	1575	R _L = 8.0 K Ω ,
			2.8	0.05	90	67.5	-7.0	6.1	1.1	0.1	1425	W _o = 0.27 watts R _L = 8.0 K Ω , W _o = 0.235 watts
3V4	5	Power Amplifier	1.4	0.1	90	90	-4.5	9.5	2.1	0.1	2150	R _L = 10 K Ω ,
			2.8	0.05	90	90	-4.5	7.7	1.7	0.12	2000	W _o = 0.27 watts R _L = 10 K Ω , W _o = 0.24 watts
3W4	5	Power Amplifier	1.4	0.05	85	85	-5.2	6.8	1.4	0.15	1700	R _L = 11.0 K Ω ,
			2.8	0.025								W _o = 0.25 watts
3Z4	5	Power Amplifier	1.4	0.05	67.5	67.5	-7.0	6.5	1.3	0.1	1450	R _L = 8.0 K Ω ,
			2.8	0.025								W _o = 0.21 watts
4AU6	5	Class A Amplifier	4.2	0.45	100	100	*	5.0	2.1	0.5	3900	R _k = 150 Ω
					250	150		10.6	4.3	1.0	5200	R _k = 68 Ω
4BA6	5	RF Amplifier	4.2	0.45	See 6BA6 Characteristics							
4BC5	5	Class A Amplifier	4.2	0.45	100	100	*	4.7	1.4	0.6	4900	R _k = 180 Ω
					250	150		7.5	2.1	0.8	5700	
4BC8	3, 3	Class A Amplifier	4.2	0.6	150		*	10.0		—	6200	R _k = 220 Ω , μ 35
4BE6	7	Converter	4.2	0.45	See 6BE6 Characteristics							
4BN4	3	VHF Amplifier	4.2	0.3	See 6BN4 Characteristics							

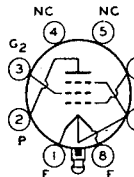
*See quoted value of R_k



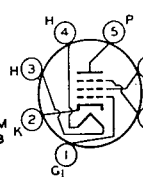
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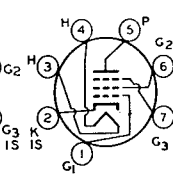
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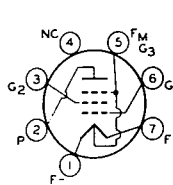
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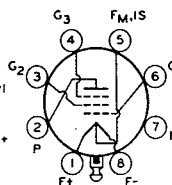
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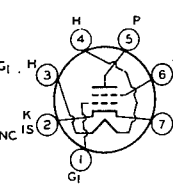
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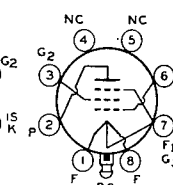
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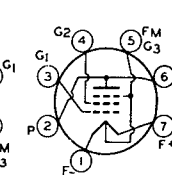
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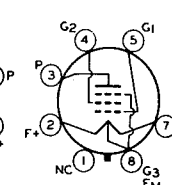
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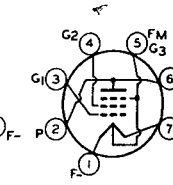
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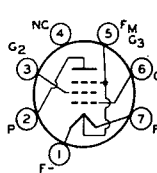
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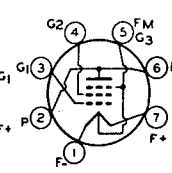
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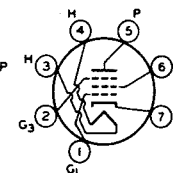
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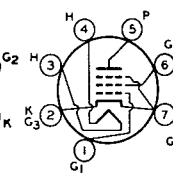
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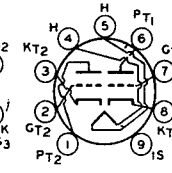
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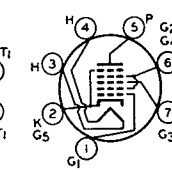
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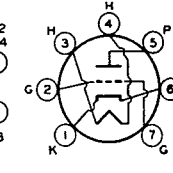
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4BC8



4BE6



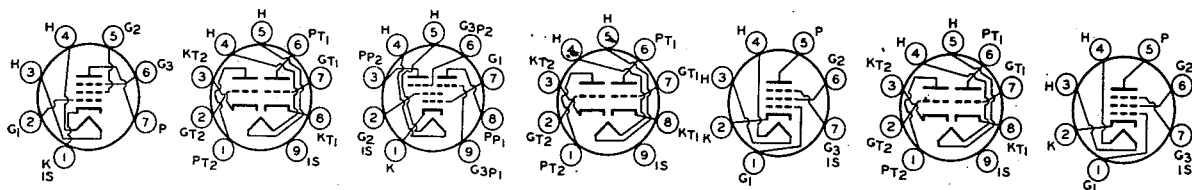
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TYPE	Class	Use	E _r volts	I _r amps	E _b volts	E _{c2} volts	E _{c1} volts	I _b ma	I _{c2} ma	r _p MΩ	g _m μmhos	
4BN6	5	Quad. FM Det.	4.2	0.45	See 6BN6 Characteristics							
4BQ7A	3, 3	Class A Amplifier	4.2	0.6	150		*	9.0		6100	6400	R _k = 220 Ω Cutoff Volts = -10
4BS8	3, 3	Cascode Amp.	4.5	0.6	250	—	~1.0	16		—	10,000	
		Class A Amplifier			150	—	*	10		0.005	7200	R _k = 220 Ω
4BU8	5, 5	Sync. AGC	4.2	0.45	100	67.5	■	2.2	3.3		180	E _{c3} = 0
4BX8	3, 3	Cascode Amplifier	4.2	0.6	65		-1.0	9.0			6700	μ = 25
4BZ6	5	RF Amplifier	4.2	0.45	See 6BZ6 Characteristics							
4CB6	5	Class A Amp.	4.2	0.45	200	150	*	9.5	2.8	0.6	6200	R _k = 180 Ω
4CE5	5	RF Amplifier	4.2	0.45	125	125		11.0	2.8	0.3	7600	
4CS6	7	Sync. Sep.	4.2	0.45	See 6CS6 Characteristics							
4CX7	3, 3	Cascode Amp.	4.2	0.6	150		*	9.0			6400	R _k = 220 Ω, μ = 39
4CY5	4	Class A Amplifier	4.5	0.3	125	80	-1.0	10	1.5	0.1	8000	
4DE6	5	VHF Amplifier	4.2	0.5	See 6DE6 Characteristics							
4DK6	5	VHF Amplifier	4.2	0.45	See 6DK6 Characteristics							
4DT6	5	Class A Amp.	4.2	0.45	150	100	*	1.1	2.1	0.15	515	R _k = 560 Ω
		FM Det.			250	100	*	0.22	5.5		G ₃ volts = -6, R _k = 560 Ω R _L = 270 KΩ	
4ES8	3, 3	VHF Amplifier	4.0	0.6	See 6ES8 Characteristics							
5A6	5	Class B Amp.	5.0	0.23	150	139.5	-15	40	7.0	W _o = 2.8 watts		
		Class C Amp.	2.5	0.46	150	150	-24	40	11.0	W _o = 3.1 watts		
5AM8	2, 5	Amplifier Detector	4.7	0.6	200	150	*	11.5	2.7		7000	R _k = 120 Ω
					Diode Unit: Max. DC Plate Curr. = 5.0 ma							
5AN8	3, 5	Amplifier	4.7	0.6	See 6AN8 Characteristics							
5AQ5	5	Amplifier	4.7	0.6	See 6AQ5 Characteristics							
5AR4	2R, 2R	Full-wave Rectifier	5.0	1.9	Max. PIV = 1500 volts Peak Plate Current/Plate = 750 ma Max. DC Output Current = 250 ma							
5AS4	2R, 2R	Full-wave Rectifier	5.0	3.0	Max. AC Volts/Plate = 550 volts Max. DC Output = 275 ma							
5AS4A		Full-wave Rectifier			Max. PIV = 1550 volts Max. Peak Ib./Plate = 1.0 amp							
5AS8	2, 5	Amplifier Detector	4.7	0.6	See 6AS8 Characteristics							
5AT8	3, 5	Triode Osc.	4.7	0.6	150			13		R _{g1} = 2700 Ω, W _o = 0.5 watts‡		
		Pentode Mixer			150	150	-3.5	6.2	1.8	g _c = 2100 μmhos		
5AU4	2R, 2R	Full-wave Rectifier	5.0	4.5	Max. PIV = 1400 volts Peak Plate Current/Plate = 1075 ma DC Output Current = 325 ma							
5AV8	3, 5	Triode Amp.	4.7	0.6	200		-6.0	13	—	0.00575	3300	μ = 19
		Pent. Amplifier			200	150	*	9.5	2.8	0.3	6200	R _k = 180 Ω
5AW4	2R, 2R	Full-wave Rectifier	5.0	4.0	Max. PIV = 1550 volts Peak Plate Current/Plate = 750 ma DC Output Current = 250 ma							
5AZ4	2R, 2R	Full-wave Rectifier	5.0	2.0	See 5Y3GT Characteristics							
5B8	3, 5	Triode Amp.	4.7	0.6	200		-6.0	13		0.0057	3300	μ = 19
		Pent. Amplifier			200	150	*	9.5	2.8	0.3	6200	R _k = 180 Ω

*See quoted value of R_k.

‡Approx.

■Adjusted for I_{g1} = 100 μa dc.



4BN6

4BQ7-A
4BS8

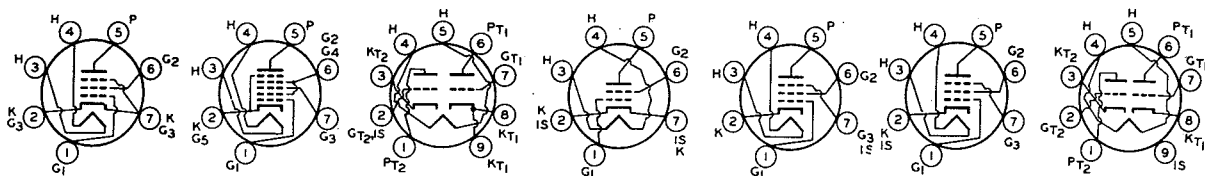
4BU8

4BX8

4BZ6

4BZ7
4BZ8

4CB6



4CE5

4CS6

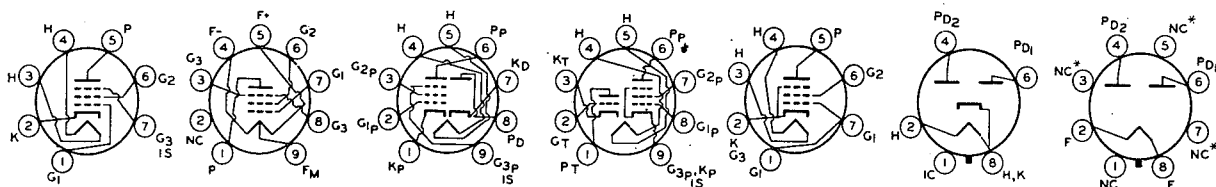
4CX7

4CY5

4DE6
4DK6

4DT6

4ES8



4EW6

5A6

5AM8

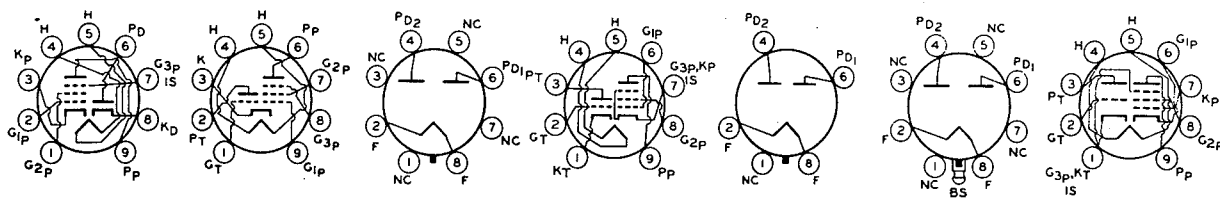
5AN8

5AQ5

5AR4

5AS4
5AS4-A

*Pin omitted on some of these types.



5AS8

5AT8

5AU4

5AV8

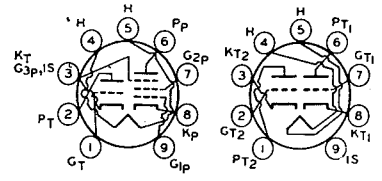
5AW4
5AX4-GT

5AZ4

5B8

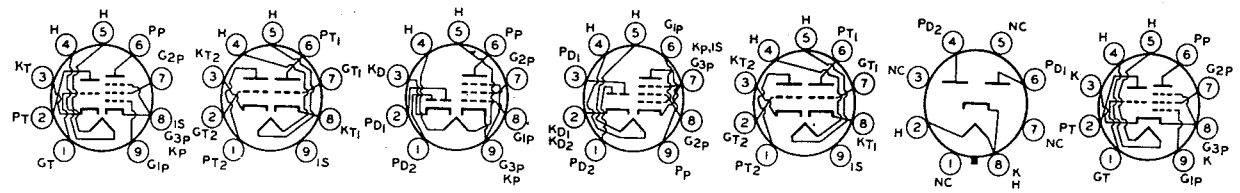
TYPE	Class	Use	E_r volts	I_r amps	E_b volts	E_{c2} volts	E_{c1} volts	I_b ma	I_{c2} ma	r_p M Ω	g_m μ mhos	
5BE8	3, 5	Triode Osc.	4.7	0.6	150		*	18		0.005	8500	$R_k = 56 \Omega$
		Pent. Amplifier			250	110	*	10	3.5	0.4	5200	$R_k = 68 \Omega$
5BK7A	3, 3	Class A Amplifier	4.7	0.6	150		*	18		0.0046	9300	$R_k = 56 \Omega$, Cutoff Volts = -11
5BQ7A	3, 3	Class A Amplifier	5.6	0.45	150		*	9.0		0.0061	6400	$R_k = 220 \Omega$, $\mu = 39$ Cutoff Volts = -10
5BR8	3, 5	Osc. Mixer	4.7	0.6	See 6BR8 Characteristics							
5BS8	3, 3	Amplifier	5.6	0.45	See 6BS8 Characteristics							
5BT8	2, 2, 5	Amp. Detector	4.7	0.6	See 6BT8 Characteristics							
5BW8	2, 2, 5	RF, IF Amp.	4.7	0.6	See 6BW8 Characteristics							
5BZ7	3, 3	RF Amplifier	5.6	0.45	150		*	10.0		0.0056	6800	$R_k = 220 \Omega$
5CG4	2R, 2R	Full-wave Rectifier	5.0	2.0	Max. PIV = 1400 volts Max. Peak Plate Current/Plate = 400 ma DC Output Current = 125 ma (Max.)							
5CG8	3, 5	Osc. Converter	4.7	0.6	See 6CG8 Characteristics							
5CL8	3, 4	Osc. Converter	4.7	0.6	See 6CL8 Characteristics							
5CL8A	3, 4	VHF Oscillator VHF Amplifier	4.7	0.6	See 6CL8A Characteristics							
5CM6	5	Power Amplifier	4.7	0.6	See 6CM6 Characteristics							
5CM8	3, 5	Class A Amplifier	4.7	0.6	See 6CM8 Characteristics							
5CQ8	3, 4	Tri. Osc. Pent. Amp.	4.7	0.6	See 6CQ8 Characteristics							
5CR8	3, 5	Triode Amplifier Pent. Amplifier	4.7	0.6	See 6CR8 Characteristics							
5CZ5	5	Vert. Def. Amp.	4.7	0.6	See 6CZ5 Characteristics							
5DH8	3, 5	Triode Vert. Osc.	5.2	0.6	250		*	7.3		0.12	4400	$R_k = 390 \Omega$, $\mu = 53$
		Pent. Vid. Amp.			125	125	*	13.5	3.8	0.15	8600	$R_k = 56 \Omega$
5EA8	3, 5	Triode VHF Amp. Pent. VHF Amp.	4.7	0.6	See 6EA8 Characteristics							
5J6	3, 3	Class A Amp.	4.7	0.6	100		*	8.5		0.0071	5300	$R_k = 50 \Omega$
		PP Class C			150		-10	30				
5R4G	2R, 2R	Full-wave Rectifier	5.0	2.0	Max. PIV = 2800 volts Max. Peak Plate Current/Plate = 650 ma DC Output Current = 250 ma (max)							
5R4GY 5R4GYA 5R4GYB	2R, 2R	Full-wave Rectifier	5.0	2.0	Max. PIV = 2800 volts Max. Peak Plate Current/Plate = 650 ma DC Output Current = 150 ma (max.)							
5T4	2R, 2R	Full-wave Rectifier	5.0	2.0	Max. PIV = 1500 volts Max. Peak Plate Current/Plate = 675 ma Max. DC Output = 225 ma							
5T8	2, 2, 2, 3	Det. Amplifier	4.7	0.6	100		-1.0	0.8		0.054	1300	$\mu = 70$
					250		-3.0	1.0		0.058	1200	$\mu = 70$
5U4G	2R, 2R	Full-wave Rectifier	5.0	3.0	Max. PIV = 1550 volts Max. Peak Plate Current/Plate = 675 ma Max. DC Output = 225 ma							
5U4GB	2R, 2R	Full-wave Rectifier	5.0	3.0	Max. PIV = 1550 volts Max. Peak Plate Current/Plate = 1000 ma Max. DC Output Current = 250 ma							

*See quoted value of R_k



5BE8

5BK7-A
5BQ7-A



5BR8

5BS8

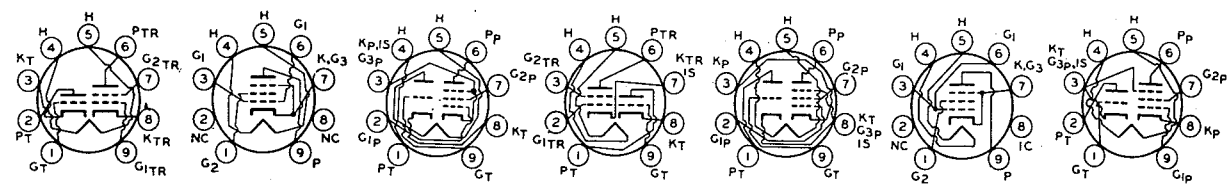
5BT8

5BW8

5BZ7

5CG4

5CG8



5CL8
5CL8-A

5CM6

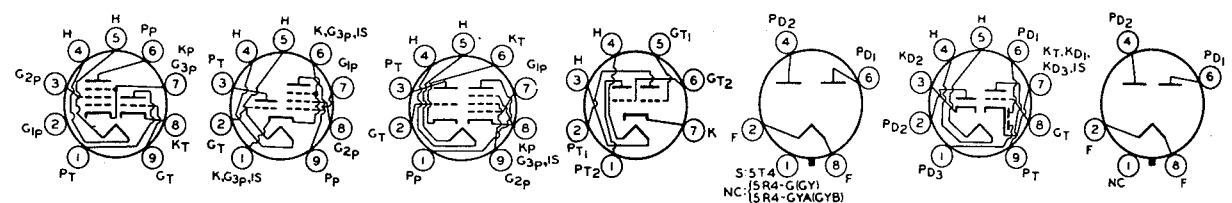
5CM8

5CQ8

5CR8

5CZ5

5DH8



5EA8

5EH8

5EU8

5J6

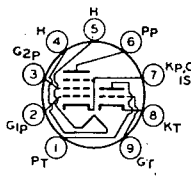
5R4-G, GY
5R4-GYA, GYB
5T4

5T8

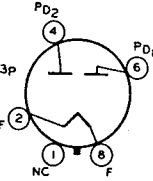
5U4-G
5U4-GA
5U4-GB

TYPE	Class	Use	E_r volts	I_r amps	E_b volts	E_{c2} volts	E_{c1} volts	I_b ma	I_{c2} ma	r_p M Ω	g_m μ mhos	
5U8	3, 5	Triode Amplifier	4.7	0.6	See 6U8 Characteristics							
		Pent. Amplifier										
5V8	2R, 2R	Full-wave Rectifier	5.0	3.8	Max. AC Voltage/Plate = 500 volts (rms) Max. PIV = 1400 volts Max. Output Current/Plate = 225 ma							
5V4G 5V4GA	2R, 2R	Full-wave Rectifier	5.0	2.0	Max. AC Voltage/Plate = 375 volts (rms) DC Output Current = 175 ma Max. PIV = 1400 volts Max. Peak I_b /Plate = 525 ma							
5V6GT	5	Class A Amplifier	4.7	0.6	250	250	-12.5	45	4.5	0.052	4100	$R_L = 5.0 K\Omega$, $W_o = 4.5$ watts
5W4 5W4G 5W4GT	2R, 2R	Full-wave Rectifier	5.0	1.5	Max. AC Voltage/Plate = 350 volts (rms) Max. PIV = 1400 volts Max. DC Output Current = 100 ma Max. Peak Plate Current/Plate = 300 ma							
5X4G	2R, 2R	Full-wave Rectifier	5.0	3.0	See 5U4G Characteristics							
5X4GA	2R, 2R	Full-wave Rectifier	5.0	3.0	Max. PIV = 1550 volts Peak Plate Current/Plate = 900 ma max. DC Output Current = 125 ma max.							
5X8	3, 5	Osc. Converter	4.7	0.6	See 6X8 Characteristics							
5Y3 5Y3G 5Y3GA 5Y3GT	2R, 2R	Full-wave Rectifier	5.0	2.0	Max PIV = 1400 Max. DC Output = 125 ma Max. Peak Plate Current/Plate = 400 ma							
5Y4G 5Y4GA 5Y4GT	2R, 2R	Full-wave Rectifier	5.0	2.0	See 5Y3GT Characteristics							
5Z3	2R, 2R	Full-wave Rectifier	5.0	3.0	See 5U4G Characteristics							
5Z4 5Z4G	2R, 2R	Full-wave Rectifier	5.0	2.0	Max. AC Voltage/Plate = 350 volts (rms) Max. DC Output = 125 ma Max. PIV = 1400 volts Max. Peak I_b /Plate = 375 ma							
6A3	3	Class A Amplifier	6.3	1.0	See 6B4G Characteristics							
6A4/LA	5	Class A Amplifier	6.3	0.3	100	100	-6.5	9.0	1.6	0.0833	1200	$R_L = 11 K\Omega$, $W_o = 0.31$ watts $R_L = 8 K\Omega$, $W_o = 1.4$ watts
					180	180	-12.0	22.0	3.9	0.0455	2200	
6A6	3, 3	Class A Amplifier	6.3	0.8	See 6N7GT Characteristics							
6A7 6A7S	7	Converter	6.3	0.3	See 6A8 Characteristics							
6A8 6A8G 6A8GT	7	Converter	6.3	0.3	100	G_{3+5}	G_4	3.5	2.7	0.36	$E_{c2} = 250$ v, 4.0 ma $I_{c1} = 0.1$ ma $R_{g1} = 20 K\Omega$, $g_c = 550 \mu$ mhos	
6AB4	3	Class A Amplifier	6.3	0.15	100	—	*	3.7	—	0.015	4000	$R_k = 270 \Omega$, $\mu = 60$ $R_k = 200 \Omega$, $\mu = 60$
					250	—	*	10.0	—	0.0109	5500	
6AB5/ 6N5		Visual Indicator	6.3	0.15	135	Target = 135 volts Grid Bias = -10.0 v for 0° shadow, 0 v for 90° shadow $R_p = 0.25 M\Omega$ Target current = 2.0 ma $I_b = 0.5$ ma						
6AB7 6AB7/ 1853	5	Class A Amplifier	6.3	0.45	300	200	-3.0	12.5	3.2	0.7	5000	
6AB8	3, 5	Triode Amplifier	6.3	0.3	100	—	-2.0	4	—	—	1350	$R_L = 11 K\Omega$, $W_o = 1.4$ watts
		Pent. Amplifier			200	200	-7.7	17.5	3.3	0.15	3400	
6AC5G 6AC5GT	3	Class B Power Amplifier	6.3	0.4	250	—	+13	32.0	—	0.037	3400	$I_{c1} = 5$ ma
					250	—	0	5.0	—	—	—	$R_L = 10.0 K\Omega$, (p-p) $W_o = 8.0$ watts

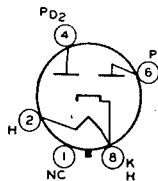
*See quoted value of R_k



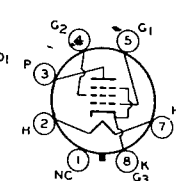
5U8



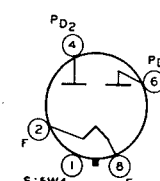
5V3



5V4-G
5V4-GA

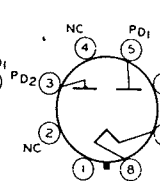


5V6-GT

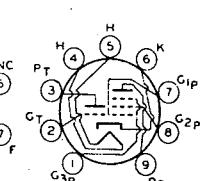


S: 5W4
NC: 5W4-G
NC: 5W4-GT

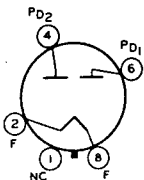
5W4
5W4-G
5W4-GT



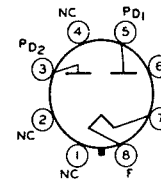
5X4-G
5X4-GA



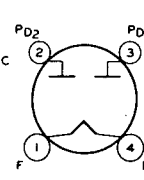
5X8



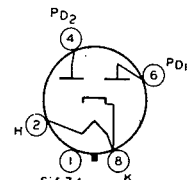
5Y3
5Y3-G
5Y3-GA
5Y3-GT



5Y4-G
5Y4-GA
5Y4-GT

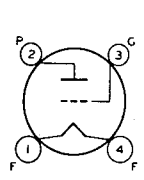


5Z3

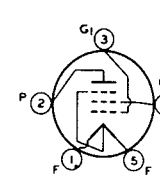


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NC: 5Z4-G

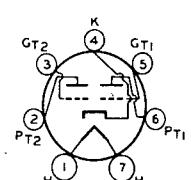
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5Z4-G



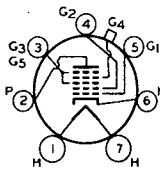
6A3



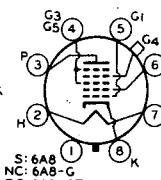
6A4/LA



6A6

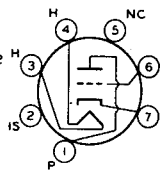


6A7
6A7-S

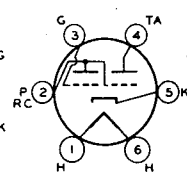


S: 6A8
NC: 6A8-G
BC: 6A8-GT

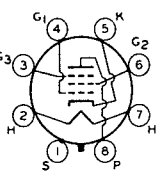
6A8
6A8-G
6A8-GT



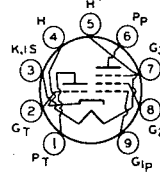
6AB4



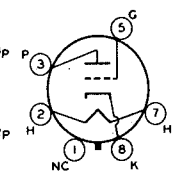
6AB5/6N5



6AB7
6AB7/1853



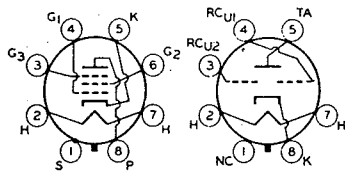
6AB8



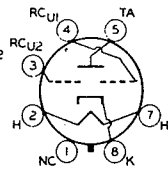
6AC5-G
6AC5-GT

TYPE	Class	Use	E_r volts	I_r amps	E_b volts	E_{c2} volts	E_{c1} volts	I_b ma	I_{c2} ma	r_p M Ω	g_m μ mhos	
6AC7 6AC7A	5	Class A Amplifier	6.3	0.45	300	150	*	10.0	2.5	1.0	9000	$R_k = 160 \Omega$
6AD6G		Tuning Indicator	6.3	0.15	Target Voltage = 150 volts		Target Current = 1.2 to 3.0 ma					
					Ray Control Voltage = 75 v for 0° and -50 v for 135°							
6AD7G	3, 5	Triode Amplifier	6.3	0.85	250		-25.0	4.0		0.019	325	$\mu = 6$
		Pent. Amplifier			250	250	-16.5	34.0	6.5	0.08	2500	$R_L = 7.0 K\Omega, W_o = 3.2 w$
6AD8	2, 2, 5	Det. Amp.	6.3	0.3	250	85	*	6.7	2.3	1.0	1100	$R_k = 225 \Omega$
6AE5G 6AE5GT	3	Class A Amplifier	6.3	0.3	95	—	-15.0	7.0	—	0.0035	1200	$\mu = 4.2$
6AE7G 6AE7GT	3, 3	Class A Amplifier	6.3	0.5	250	—	-13.5	5.0	—	0.0093	1500	$\mu = 14$
6AE8	3, 6	Triode Osc.	6.3	0.3	115	—	—	4.5	—	—	$I_{c1} = 300 ma, R_{g1} = 30 K\Omega$	
		Hexode Mixer			250	G_{2+4}	—2	3.5	3.2	1.5	$g_c = 750 \mu$ mhos	
6AF3	2	TV Damper Diode	6.3	1.2	Max. PIV = 4500 volts,		Max. PC Plate Current = 185 ma					
					Max. Plate Dissipation = 6.0 watts							
6AF4 6AF4A	3	Class A Amplifier	6.3	0.225	100	—	*	20	—	0.002	7500	$\mu = 16$ $R_k = 150 \Omega$
		Osc. at 950 Mc			100	—	-4.0	22	—	$R_{g1} = 10 K\Omega, I_{c1} = 400 \mu$ amp		$W_o = 160 mw$
6AF6G		Tuning Indicator	6.3	0.15	Target Voltage = 250 volts,		Target Current = 2.2 ma					
					Ray Control Voltage = 160 volts for 0° shadow							
					Ray Control Voltage = 0 volts for 95° shadow							
6AG5	5	Pent. Amplifier	6.3	0.3	100	100	*	4.5	1.4	0.6	4500	$R_k = 180 \Omega$
					250	150		6.5	2.0	0.8	5000	$R_k = 180 \Omega$
		Triode Amplifier			180	—	*	7.0	—	0.008	5700	$R_k = 330 \Omega$
					250	—		5.5	—	0.01	3800	$R_k = 820 \Omega$
6AG7	5	Amplifier	6.3	0.65	300	150	-3	30.0	7.0	0.13	11000	$R_L = 10 K\Omega,$ $W_o = 3.0 watts$
6AH4GT	3	Class A Amplifier	6.3	0.75	250	—	-23	30	—	0.002	4500	
6AH5G	4	Class A Amplifier	6.3	0.9	350	250	-18	54	2.5	0.033	5200	
6AH6 6AH6G	5	Class A Amplifier	6.3	0.45	300	150	*	10.0	2.5	0.5	9000	$R_k = 160 \Omega$
6AH7GT	3, 3	Amplifier	6.3	0.3	See 12AH7GT Characteristics							
6AJ8	3, 7	Converter	6.3	0.3	250	103	-2.0	3.25	6.7	1.0	$g_c = 775 \mu$ mhos Osc. $R_{g1} = 47 K\Omega$	
6AK5	5	Class A Amplifier	6.3	0.175	120	120	*	7.5	2.5	0.34	5000	$R_k = 200 \Omega$
					180	120		7.7	2.4	0.69	5100	
6AK6	5	Class A Amplifier	6.3	0.15	180	180	-9.0	15	2.5	0.2	2300	$R_L = 16 K\Omega,$ $W_o = 1.1 watts$

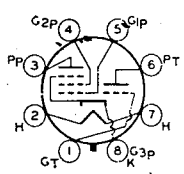
*See quoted value of R_k .



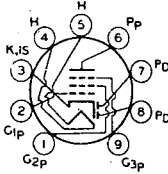
**6AC7
6AC7-A**



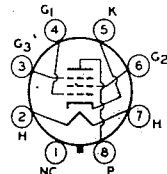
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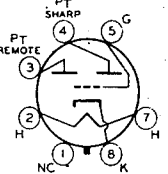
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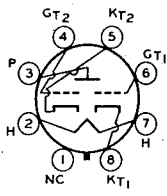
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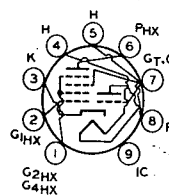
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6AE5-GT**



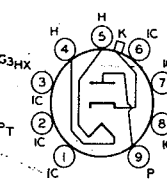
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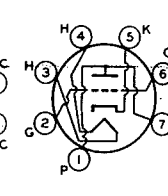
**6AE7-G
6AE7-GT**



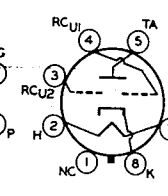
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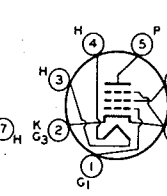
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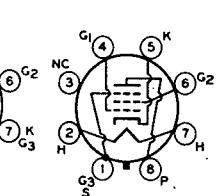
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6AF4-A**



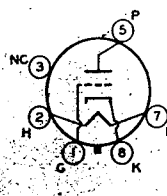
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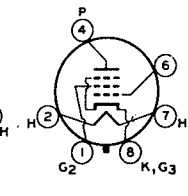
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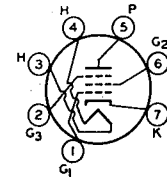
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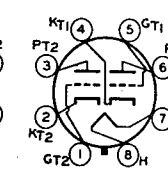
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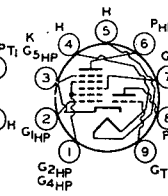
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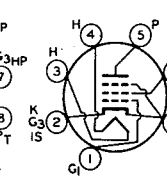
**6AH6
6AH6-G**



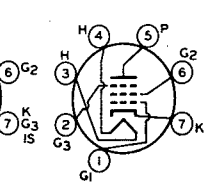
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6AJ8



6AK5



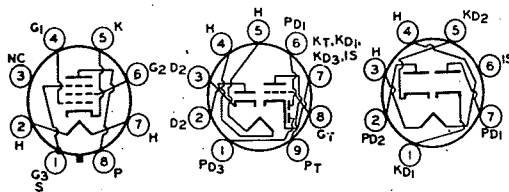
6AK6

TYPE	Class	Use	E _f volts	I _f amps	E _b volts	E _{c2} volts	E _{c1} volts	I _b ma	I _{c2} ma	r _p MΩ	g _m μmhos	
6AK7	5	Class A Amplifier	6.3	0.65	300	150	-3.0	30.0	7.0	0.13	11000	
6AK8	2, 2, 2, 3	Class A Amplifier	6.3	0.45	100 250		-1.0 -3.0	0.8 1.0		0.048 0.05	1450 1400	μ = 70 μ = 70
6AL5	2, 2	Detector Rectifier	6.3	0.3	Max. PIV = 330 volts Max. DC Output/Plate = 9 ma Max. Peak H-K volts = 330 volts Max. Peak Plate Current/Plate = 54 ma							
6AL6G	5	Power Amplifier	6.3	0.9	See 6L6G Characteristics							
6AL7GT		Tuning Indicator	6.3	0.15	Target Voltage = 315 volts, Grid Voltage = 0 v R _k = 3.3 KΩ							
6AM4	3	Class A Amplifier	6.3	0.225	150	—	*	7.5	—	0.0095	9000	R _k = 100 Ω, μ = 85
6AM5	5	Class A Amplifier	6.3	0.2	250	250	-13.5	16	2.4	0.13	2600	R _L = 16.0 KΩ, W _o = 1.4 watts
6AM6	5	RF Amplifier	6.3	0.3	250	250	-2.0	10	2.5	1.0	7500	
6AM8 6AM8A	2, 5	Class A Amplifier	6.3	0.45	200	150	*	11.5	2.7	—	7000	R _k = 120 Ω
6AN4	3	Class A Amplifier	6.3	0.225	200	—	*	13	—	—	10000	R _k = 100 Ω, μ = 70
6AN5	5	Power Amplifier	6.3	0.45	120	120	-6.0	35.0	12.0	0.125	8000	R _L = 2.5 KΩ, W _o = 1.3 w
6AN6	2, 2, 2, 2	Rectifier	6.3	0.2	Max. PIV = 210 volts Max. Peak Plate Current/Plate = 45 ma Max. H-K volts = 90 v DC Output/Plate = 8 ma							
6AN7	3, 6	Triode Osc.	6.3	0.23	250	—	—	5.1	—	—	—	R _{g1} = 22.0 KΩ
		Hexode Mixer			250	G ₂₊₄	85	-2	3.0	G ₂₊₄	3.0	1.0
6AN8 6AN8A	3, 5	Triode Amplifier Pent. Amplifier	6.3	0.45	200 200	— 150	-6.0 *	13.0 9.5	— 2.8	0.0057 0.3	3300 6200	R _k = 180 Ω
6AQ4	3	RF Amplifier	6.3	0.3	250	—	-1.5	10	—	—	8500	μ = 100
6AQ5 6AQ5A	5	Class A Amplifier P.P. Amplifier†	6.3	0.45	180 250 250	180 250	-8.5 -12.5 -15.0	29.0 45.0 70.0▼	3.0 4.5 5.0▼	-0.58 -0.52 0.06	3700 4100	R _L = 5.5 KΩ, W _o = 2.0 watts R _L = 10 KΩ, W _o = 10.0 w▼
6AQ6	2, 2, 3	Triode Amplifier	6.3	0.15	100	—	-1.0	0.8	—	0.061	1150	μ = 70
					250	—	-3.0	1.0	—	0.058	1200	μ = 70
6AQ7GT	2, 2, 3	Triode Amplifier	6.3	0.3	250	—	-2.0	2.3	—	0.044	1600	μ = 70
6AQ8	3, 3	RF Amplifier	6.3	0.435	250	—	-2.0	10.0	—	-0.097	6000	
		Self-Osc. Mixer			250	—	—	5.2	—	-0.22	—	g _c = 2300
6AR5	5	Class A Amplifier	6.3	0.4	250	250	-16.5	34.0	5.7	0.065	2400	R _L = 7.0 KΩ, W _o = 3.2 w
					250	250	-18	32.0	5.5	0.068	2300	R _L = 7.6 KΩ, W _o = 3.4 w
6AR6	4	Tet. Amplifier	6.3	1.2	250	250	-22.5	75	5.0	-0.21	5400	μ = 113
		Triode Amplifier			200	—	-12.5	90	—	-0.01	6000	μ = 6
6AR7GT	2, 2, 5	Det. RF Amp.	6.3	0.3	250	100	-2.0	7.0	1.8	1.0	2500	
6AR8	8	Sync. Detector	6.3	0.3	250	250	*	10	0.4	—	4000	R _k = 390 Ω
6AS5	5	Class A Amplifier	6.3	0.8	150	110	-8.5	35	2.0	—	5600	R _L = 4.5 KΩ, W _o = 2.2 watts

*See quoted value of R_k

▼Two valves

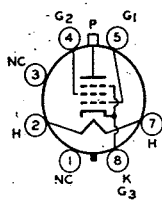
†Class AB.



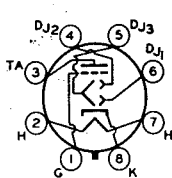
6AK7

6AK8

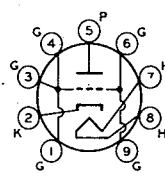
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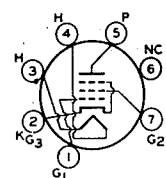
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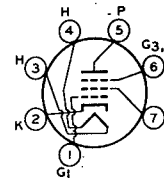
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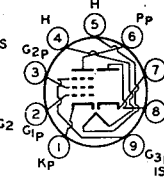
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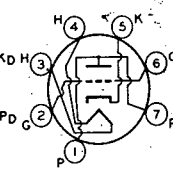
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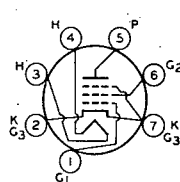
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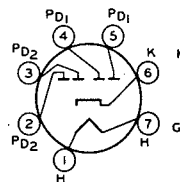
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6AM8-A



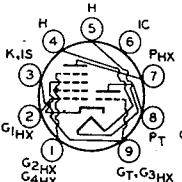
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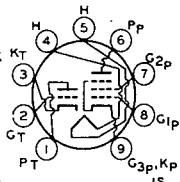
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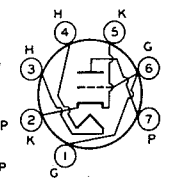
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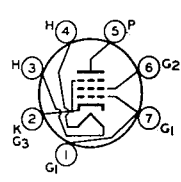
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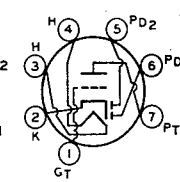
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6AN8-A



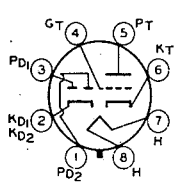
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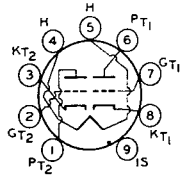
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6AQ5-A



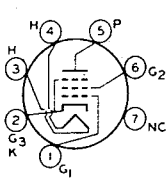
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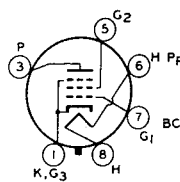
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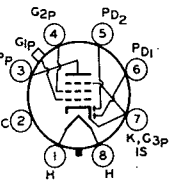
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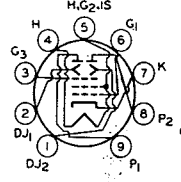
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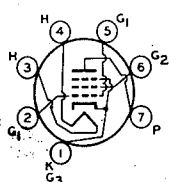
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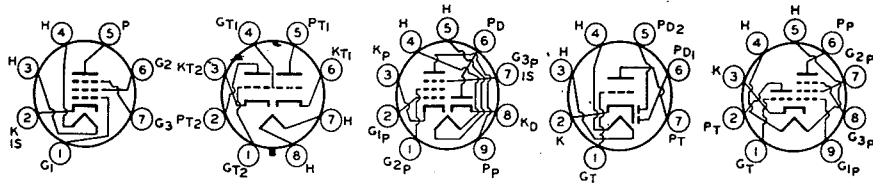
6AR8



6AS5

TYPE	Class	Use	E _r volts	I _r amps	E _b volts	E _{c2} volts	E _{c1} volts	I _b ma	I _{c2} ma	r _p MΩ	g _m μmhos	
6AS6	5	Voltage Amplifier	6.3	0.175	120	120	-2.0	5.2	3.5	0.15	3200	
6AS7G 6AS7GA	3, 3	Power Amplifier	6.3	2.5	135	—	*	125	—	280 ohms	7000	R _k = 250 Ω, μ = 2.1
6AS8	2, 5	Diode Unit	6.3	0.45	Max. PIV = 330 volts Max. Peak Plate Curr. = 50 ma Max. DC Plate Current = 5.0 ma							
		Pent. Amplifier			200	150	*	9.5	3.0	0.3	6200	R _k = 180 Ω
6AT6	2, 2, 3	Triode Amplifier	6.3	0.3	100	—	-1.0	0.8	—	0.054	1300	μ = 70
					250	—	-3.0	1.0	—	0.058	1200	μ = 70
6AT8 6AT8A	3, 5	Triode/Pentode Converter	6.3	0.45	See 6X8 Characteristics							
6AU4GT	2R	TV Damper Diode	6.3	1.8	Max. PIV = 4500 volts (Abs.) Max. DC Plate Current = 175 ma Max. Peak Plate Curr. = 1050 ma Max. Plate Dissip. = 6.0 w							
6AU4GTA	2R	TV Damper Diode	6.3	1.8	Max. PIV = 4500 volts Max. Plate Dissip. = 6.5 w Max. Peak Plate Curr. = 1300 ma DC Plate Current = 210 ma							
6AU5GT	5	Horiz. Amplifier	6.3	1.25	Max. Peak Pos. Pulse Plate Voltage = 5500 volts (Abs.) Max. DC Cathode Current = 110 ma Max. DC Screen Voltage = 200 volts Max. Plate Dissipation = 10 watts Max. Screen Dissipation = 2.5 w							
6AU6 6AU6A	5	Class A Amplifier	6.3	0.3	250	150	*	10.6	4.3	1.0	5200	R _k = 68 Ω
6AU7	3, 3	Class A Amplifier	3.15	0.6	100	—	0	13	—	0.0063	3500	μ = 22.0
			6.3	0.3	250	—	-8.5	10.5	—	0.008	2200	μ = 17.5
6AU8 6AU8A	3, 5	Triode Amplifier	6.3	0.6	150	—	*	9.0	—	0.008	4900	μ = 40, R _k = 150 Ω
Pent. Amplifier		200			125	*	15	3.4	0.15	7000	R _k = 82 Ω	
6AV4	2R, 2R	Full-wave Rectifier	6.3	0.95	Max. PIV = 1250 volts Max. DC Output Current = 90 ma Max. Peak Plate Current/Plate = 250 ma							
6AV5GA 6AV5GT	5	Horizontal Deflection Amplifier	6.3	1.2	Max. DC Voltage = 550 volts Max. Peak Pos. Pulse Voltage = 5500 volts Max. DC Cathode Current = 110 ma Max. Plate Dissipation = 11 watts							
6AV6	2, 2, 3	Class A Amplifier	6.3	0.3	250	—	-2.0	1.2	—	0.06	1600	μ = 100
6AW7GT	2, 2, 3	Det. Amplifier	6.3	0.3	100	—	0	1.4	—	—	1200	μ = 80
6AW8	3, 5	Triode Amplifier	6.3	0.6	200	—	-2.0	4.0	—	0.0175	4000	μ = 70
		Pentode Amp.			200	150	*	13	3.5	0.4	9000	R _k = 180 Ω
6AW8A	3, 5	Triode Amplifier	6.3	0.6	200	—	-2.0	4.0	—	0.0175	4000	μ = 70
		Pentode Amplifier			200	150	*	13	3.5	0.4	9000	R _k = 180 Ω
6AX4GT	2R	TV Damper Diode	6.3	1.2	Max. PIV = 4400 volts (Abs.) Max. Peak Plate Current = 750 ma Max. DC Plate Current = 125 ma							
6AX5GT	2R, 2R	Full-wave Rectifier	6.3	1.2	Max. PIV = 1250 volts Max. DC Output = 80 ma Max. Peak Plate Current/Plate = 375 ma							
6AX7	3, 3	Voltage Amplifier	6.3	0.3	250	—	-2.0	1.2	—	—	1600	μ = 100
					100	—	-1.0	0.5	—	1250		
6AX8	3, 5	Triode Amplifier	6.3	0.45	150	—	*	18	—	0.005	8500	μ = 40 R _k = 56 Ω
		Pent. Amplifier			250	110	*	10	3.5	0.4	4800	R _k = 120 Ω

*See quoted value of R_k



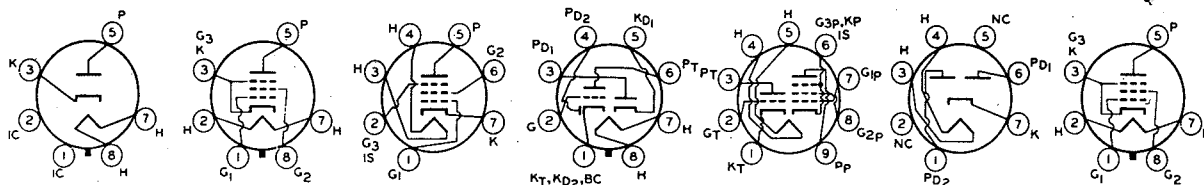
6AS6

6AS7-G
6AS7-GA

6AS8

6AT6

6AT8
6AT8-A



6AU4-GT
6AU4-GTA

6AU5-GT

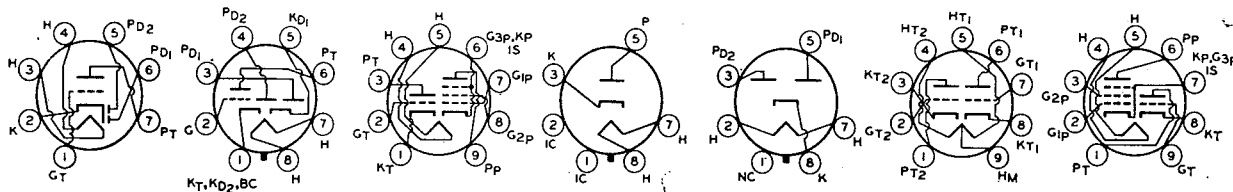
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6AU6-A

6AU7

6AU8
6AU8-A

6AV4

6AV5-GA
6AV5-GT



6AV6

6AW7-GT

6AW8
6AW8-A

6AX4-GT

6AX5-GT

6AX7

6AX8

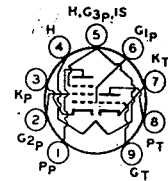
TYPE	Class	Use	E_f volts	I_f amps	E_b volts	E_{c2} volts	E_{c1} volts	I_b ma	I_{c2} ma	Γ_p M Ω	g_m μ mhos	
6AZ8	3, 5	Triode Amplifier	6.3	0.45	200	—	-6.0	13	—	0.006	3300	$\mu = 19$
		Pent. Amplifier			200	150	*	9.5	3.0	0.3	6000	$R_k = 180 \Omega$
6B3	2	TV Damper Diode	6.3	1.2	Max. PIV = 4400 volts Max. DC Plate Current = 150 ma							
6B4G	3	Class A Amplifier	6.3	1.0	250	—	-45	60	—	800 ohms	5250	$R_L = 2.5 K\Omega$, $W_o = 3.2 w$ $\mu = 4.2$
		P.P. Amplifier†			325	—	*	80▼	—	—	—	$R_L = 5 K\Omega$, $W_o = 10 w▼$, $R_k = 850 \Omega$
6B5	3, 3	Class A Amplifier	6.3	0.8	See 6N6G Characteristics							
6B6G	2, 2, 3	AF Amplifier	6.3	0.3	250	—	-2.0	0.9	—	0.091	1100	$\mu = 100$
6B7	2, 2, 5	RF Amplifier	6.3	0.3	See 6B8G Characteristics							
6B7S	2, 2, 5	RF Amplifier	6.3	0.3	See 6G8G Characteristics							
6B8 6B8G 6B8GT	2, 2, 5	RF Amplifier	6.3	0.3	250	125	-3.0	9.0	2.3	0.6	1125	
6BA6	5	RF Amplifier	6.3	0.3	250	100	*	11.0	4.2	1.0	4400	$R_k = 68 \Omega$
6BA7	7	Converter	6.3	0.3	100	100	-1.0	3.6	10.2	0.5	$R_{g1} = 20 K\Omega$	
					250	100	-1.0	3.8	10.0	1.0	$g_c = 950 \mu$ mhos	
6BA8 6BA8A	3, 5	Triode Amplifier Pent. Amplifier	6.3	0.6	200 200	— 150	-8.0 *	8.0 13	— 3.5	0.0067 0.4	2700 9000	$\mu = 18$ $R_k = 180 \Omega$
6BC4	3	Class A Amplifier	6.3	0.225	150	—	*	14.5	—	0.0048	10000	$R_k = 100 \Omega$, $\mu = 48$
6BC5	5	Class A Amplifier	6.3	0.3	250	150	*	7.5	2.1	0.8	5700	$R_k = 180 \Omega$
6BC7	2, 2, 2	FM Detector	6.3	0.45	Max. PIV = 330 volts Max. Peak Plate Current = 54 ma Max. DC Output Current = 12 ma							
6BC8	3, 3	Class A Amplifier	6.3	0.4	150	—	*	10	—	—	6200	$\mu = 35$, $R_k = 220 \Omega$
6BD4	3	Voltage Regulator	6.3	0.6	Max. DC Plate Voltage = 20 Kv Max. Unregulated DC Supply Voltage = 40 Kv				Max. DC Plate Current = 1.5 ma Max. Plate Dissip. = 20 watts			
6BD4A	3	Voltage Regulator	6.3	0.6	Max. DC Plate Voltage = 27 Kv Max. Unregulated DC Supply Voltage = 55 Kv				Max. DC Plate Current = 1.5 ma Max. Plate Dissip. = 25 watts			
6BD5GT	5	Horiz. Amplifier	6.3	0.9	Max. Peak Pos. Pulse Plate Voltage = 4000 volts Max. DC Cathode Current = 100 ma Max. Plate Dissipation = 10 watts							
6BD6	5	Class A Amplifier	6.3	0.3	100	100	-1.0	13.0	5.0	0.15	2550	
					250	100	-3.0	9.0	3.0	0.8	2000	
6BD7	2, 2, 3	Det. Amplifier	6.3	0.23	250	—	-3.0	1.0	—	0.058	1200	$\mu = 70$
6BE6	7	Converter	6.3	0.3	250	100	-1.5	2.9	6.8	1.0	$R_{g1} = 20 K\Omega$, $g_c = 475 \mu$ mhos	
6BE7	9	FM Det. and Limiter	6.3	0.2	250‡	20	—	0.69	1.5	5.0	—	Phase Angle $E_{c3} - E_{c5} = 90^\circ$ $R_L = 0.47 M\Omega$
6BE8 6BE8A	3, 5	Triode Amplifier Pent. Amplifier	6.3	0.45	150 250	— 110	* *	18.0 10.0	— 3.5	0.005 0.4	8500 5200	$\mu = 40$ $R_k = 56 \Omega$ $R_k = 68 \Omega$
6BF5	5	Vertical Deflection Amplifier	6.3	1.2	Max. DC Plate Voltage = 250 volts Abs. Peak Pos. Pulse Plate Voltage = 900 volts Max. DC Cath. Current = 40 ma Max. Plate Dissip. = 5 watts							

*See quoted value of R_k

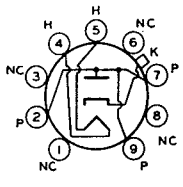
▼Two valves

‡Class AB

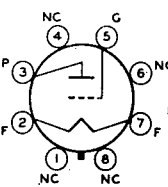
‡Supply Voltage.



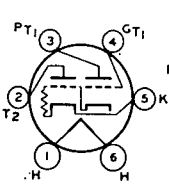
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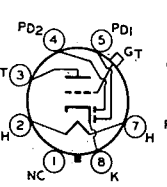
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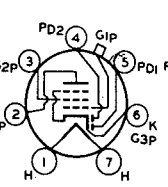
6B4-G



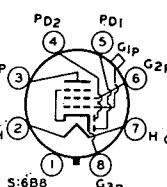
6B5



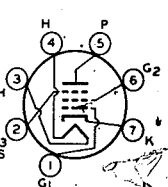
6B6-G



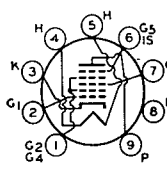
6B7
6B7-S



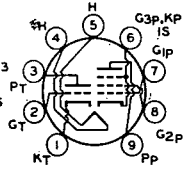
6B8
6B8-G
6B8-GT



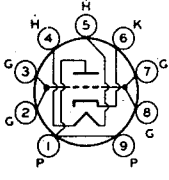
6BA6



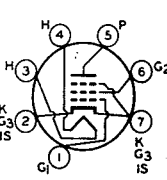
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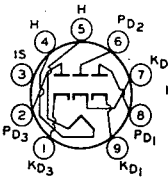
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6BA8-A



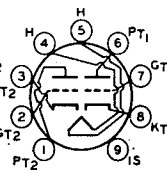
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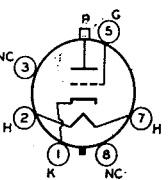
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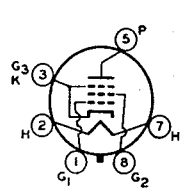
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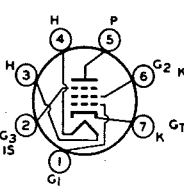
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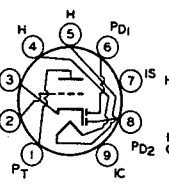
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6BD4-A



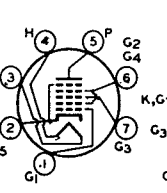
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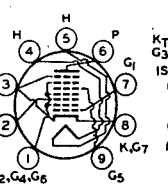
6BD6



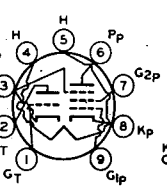
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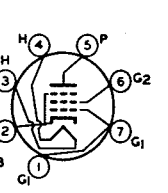
6BE6



6BE7



6BE8
6BE8-A

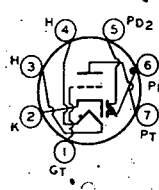


6BF5

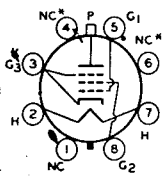
TYPE	Class	Use	E _r volts	I _r amps	E _b volts	E _{c2} volts	E _{c1} volts	I _b ma	I _{c2} ma	r _p MΩ	g _m μmhos		
6BF6	2,2,3	Triode Amplifier	6.3	0.3	250	—	-9.0	9.5	—	0.0085	1900	R _L = 10 KΩ, W _o = 0.3 watts μ = 16	
6BG6G 6BG6GA	5	Horizontal Deflection Amplifier	6.3	0.9	Max. DC Screen Voltage = 350 volts Max. Peak Pos. Pulse Plate Voltage = 6600 volts (Abs.) Max. Plate Dissip. = 20 w			Max. DC Cathode Current = 110 ma					
6BH8	3,5	Triode Amplifier	6.3	0.6	150	—	-5.0	9.5	—	0.005	3300	μ = 17	
		Pent. Amplifier			200	125	*	15	3.4	0.15	7000	R _k = 82 Ω	
6BJ5	5	Power Amplifier	6.3	0.64	250	250	-5.0	35	5.5	0.04	10,500	R _L = 7 KΩ, W _o = 4 watts	
6BJ6	5	Class A Amplifier	6.3	0.15	100	100	-1.0	9.0	3.5	0.25	3650		
					250	100	-1.0	9.2	3.3	1.3	3600		
6BJ6A	5	Class A Amplifier	6.3	0.15	Same as 6BJ6 except for controls on formation of interface impedance								
6BJ7	2,2,2	DC Restorer	6.3	0.45	Max. PIV = 330 volts Max. Peak Plate Curr./Plate = 10 ma DC Output Current/Plate = 1.0 ma								
6BZ3	2,2,3	Class A Amplifier	6.3	0.6	90	—	0	13.5	—	0.0047	4700	μ = 22	
6BK4	3	Voltage Regulator	6.3	0.2	Max. DC Plate Voltage = 25 Kv Max. Unregulated DC Supply Voltage = 55 Kv				Max. DC Plate Current = 1.5 ma Max. Plate Dissip. = 25 w				
6BK5	5	Class A Amplifier	6.3	1.2	250	250	-5.0	35	3.5	0.1	8500	R _L = 6.5 Ω, W _o = 3.5 watts	
6BK6	2,2,3	Det. Amplifier	6.3	0.3	100	—	-1.0	0.5	—	0.08	1250	μ = 100	
					250	—	-2.0	1.2	—	0.06	6600	μ = 100	
6BK7	3,3	Class A Amplifier	6.3	0.45	100	—	*	9.0	—	0.061	6100	R _k = 120, μ = 37	
					150	—	*	18	—	0.0047	8500	R _k = 56, μ = 40	
6BK7A 6BK7B	3,3	Class A Amplifier	6.3	0.45	150	—	*	18	—	0.0046	9300	R _k = 50, μ = 43	
6BK8	5	Low Noise AF Amplifier	6.3	0.2	250†	140	-2.0	3.0	0.55	2.5	1850		
6BL4	2R	Half-Wave Rect.	6.3	3.0	Max. PIV = 4500 volts (Abs.) Max. Peak Plate Current = 1200 ma Max. DC Plate Current = 200 ma								
6BL7GT	3,3	Vertical Deflection Amplifier	6.3	1.5	Max. DC Cathode Current = 60 ma Max. Peak Pos. Pulse Plate Voltage = 1800 volts				Max. Plate Dissip. = 10 w				
6BL7GTA	3,3	Vertical Deflection Amplifier	6.3	1.5	Max. Peak Pos. Pulse Plate Voltage = 2000 volts Max. DC Cathode Current = 60 ma Max. Plate Dissipation = 10 w								
6BL8	3,5	Pent. Amplifier	6.3	0.45	170	170	-2.0	10.0	2.8	0.4	6200		
		Triode Amplifier			100	—	-2.0	14.0	—	0.004	5000		
6BM5	5	Power Amplifier	6.3	0.45	250	250	-6.0	30	3.0	0.06	7000	R _L = 7 KΩ, W _o = 3.5 watts	
6BM8	3,5	Pent. Amplifier	6.3	0.76	170	170	-11.5	41.0	8.0	0.016	7500		
		Triode Amplifier			100	—	0	3.5	—	0.028	2500	μ = 70	
6BN4	3	Class A Amplifier	6.3	0.2	150	—	*	9.0	—	0.006	6800	R _k = 150 Ω, μ = 43	
6BN4A	3	Class A Amplifier	6.3	0.2	150	—	*	9.0	—	0.008	5400	R _k = 220 Ω, μ = 43	
6BN5	5	Class A Power Amplifier	6.3	0.2	225	225	*	26	4.1	0.09	3200	R _L = 9 KΩ, R _k = 360 Ω W _o = 2.8 watts	

*See quoted value of R_k.

†Supply voltage.

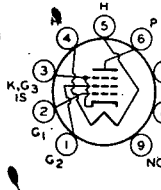


6BF6

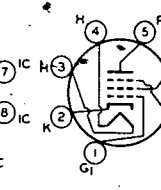


6BG6-G
6BG6-GA

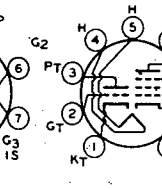
*Pins omitted on type 6BG6-G.



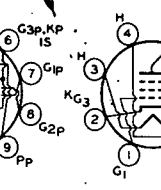
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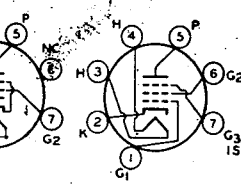
6BH6



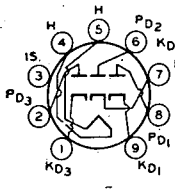
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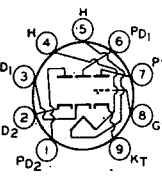
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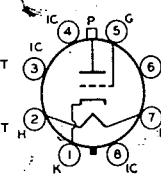
6BJ6
6BJ6-A



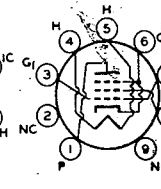
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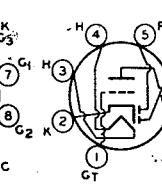
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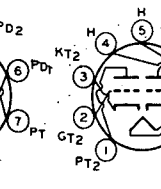
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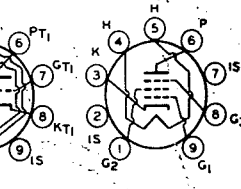
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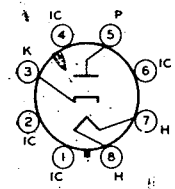
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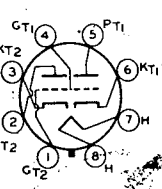
6BK7
6BK7-A
6BK7-B



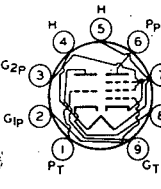
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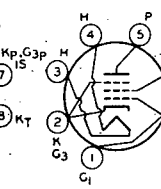
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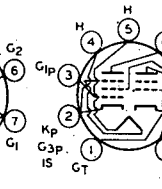
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6BL7-GTA



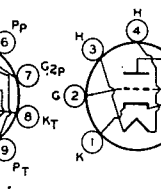
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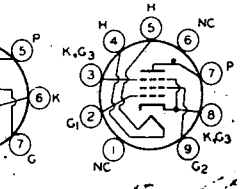
6BM5



6BM8



6BN4
6BN4-A



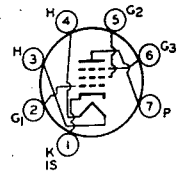
6BN5

TYPE	Class	Use	E_f volts	I_f amps	E_b volts	E_{c2} volts	E_{c1} volts	I_b ma	I_{c2} ma	r_p M Ω	g_m μ mhos	
6BN6	5	Limiter Discriminator	6.3	0.3	80	60	*	0.23	5.0	—	—	$R_k = 300 \Omega$
6BN7	3, 3	Oscillator (Unit 1)	6.3	0.75	120	—	-1.0	5.0	—	0.014	2000	$\mu = 28$
		Amplifier (Unit 2)			250	—	-15.0	24	—	0.0022	5500	$\mu = 12$
6BN8	2, 2, 3	Triode Amplifier	6.3	0.6	100	—	-1.0	1.5	—	0.021	3500	
					250	—	-3.0	1.6	—	0.028	2500	
6BQ5	5	Class A Power Amplifier	6.3	0.76	250	250	-7.3	48	5.5	0.038	11,300	$R_L = 5.2 K\Omega$
6BQ6G 6BQ6GA 6BQ6GT 6BQ6GTA	5	Horiz. Deflection Amplifier	6.3	1.2	Max. Peak Pos. Plate Voltage = 5500 volts Max. DC Cathode Current = 112.5 ma Max. Plate Dissipation = 11 watts Max. DC Screen Voltage = 200 volts							
		Class A Amplifier			250	-22.5	150	55	2.1	0.02	5500	
6BQ6GTB/ 6CU6	5	Horiz. Deflection Amplifier	6.3	1.2	Max. Plate DC Voltage = 600 volts Max. Peak Pos. Plate Voltage = 6000 v Max. DC Cathode Current = 112.5 ma Max. DC Screen Voltage = 200 volts Max. Plate Dissip. = 11 watts							
6BQ7	3, 3	Class A Amplifier	6.3	0.4	150	—	*	9.0	—	0.0058	6000	$R_k = 220 \Omega$ $\mu = 35$
6BQ7A	3, 3	Class A Amplifier	6.3	0.4	150	—	*	9.0	—	0.006	6400	$R_k = 220 \Omega$ $\mu = 39$
6BR5		Tuning Indicator	6.3	0.3	Target Voltage = 250 volts Target Current = 2.0 ma E_{c1} for shadow angle of $5^\circ = -1$ volt							
6BR7	5	Low Noise AF Amplifier	6.3	0.15	250	100	-3.0	2.1	0.6	2.4	1250	
					100	100	-3.0	2.0	0.7	1.5	1100	
6BR8	3, 5	Triode Amplifier	6.3	0.4	150	—	*	18	—	0.005	8500	$R_k = 56 \Omega$
6BR8A		Pent. Amplifier			250	110	*	10	3.5	0.4	5200	$R_k = 68 \Omega$
6BS5	5	Vertical Defl. Amplifier	6.3	0.75	250	250	-7.5	50	6	0.017	7000	$R_L = 5 K\Omega$, $W_o = 4.5$ watts $\mu = 120$, $R_k = 140 \Omega$
6BS7	5	Class A Amplifier	6.3	0.15	250	100	-3.0	2.1	0.6	2.4	1250	
6BS8	3, 3	Cascode Amplifier	6.3	0.4	250	—	-1.0	16	—	—	10,000	
		Class A Amplifier			150	—	*	10	—	0.005	7200	$R_k = 220 \Omega$
6BT4	2R, 2R	Full-wave Rectifier	6.3	0.6	Max. Plate Voltage/Plate = 350 volts (rms) Max. DC Output Current = 90 ma							
6BT6	2, 2, 3	Detector Amplifier	6.3	0.3	100	—	-1.0	0.8	—	0.054	1300	$\mu = 70$
					250	—	-3.0	1.0	—	0.058	1200	$\mu = 70$
6BT8	2, 2, 5	Detector Amplifier	6.3	0.45	200	150	*	9.5	2.8	0.3	6200	$R_k = 180$
6BU4	3	Voltage Regulator	6.3	0.45	25,000	—	-8.4	1.0	—	8.2†	185	$\mu = 1515$
6BU5	5	Voltage Regulator	6.3	0.15	20,000	70	-2.4	1.0	0.5	—	—	
6BU6	2, 2, 3	Detector Amplifier	6.3	0.3	250	—	-9.0	9.5	—	0.008	1900	$\mu = 16$
6BU8	5, 5	Class A Amplifier	6.3	0.3	100	67.5	☆	2.2	3.3	$E_{c3} = 0$		
					100	67.5	☆	—	6.5	$E_{c3} = -10$		
6BV7	2, 2, 5	Detector Amplifier	6.3	0.8	180	180	-4.0	20	3.5	0.13	8000	$R_L = 8.0 K\Omega$, $W_o = 2.0$ watts
					250	250	-5.0	38	6.0	0.1	10,000	$R_L = 8.0 K\Omega$, $W_o = 4.0$ watts
6BV8	2, 2, 3	Sync. Detector	6.3	0.6	200	—	*	11	—	0.059	5600	$R_k = 330 \Omega$
6BW4	2R, 2R	Full-wave Rectifier	6.3	0.9	Max. AC Voltage/Plate = 450 volts (rms) Max. PIV = 1275 volts Max. Peak Plate Current/Plate = 350 ma							

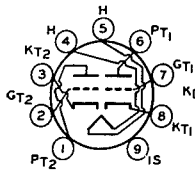
*See quoted value of R_k

†Approx.

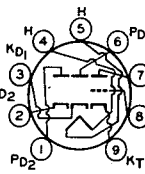
☆ E_{c1} adjusted for $I_{c1} = 100 \mu$ a



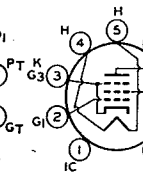
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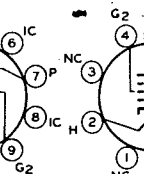
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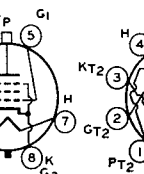
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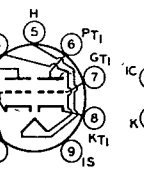
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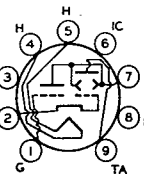
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6BQ6-GT, -GA
6BQ6-GTA
6BQ6-GTB/6CU6



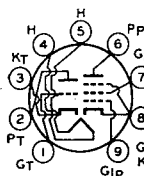
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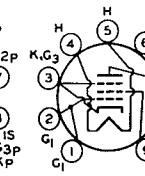
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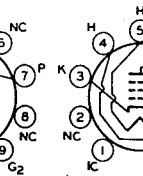
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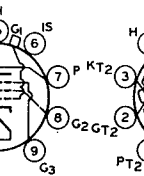
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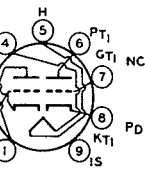
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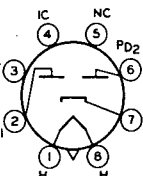
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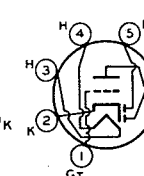
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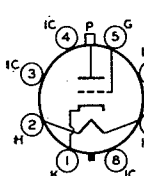
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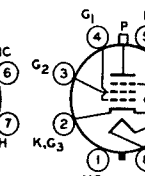
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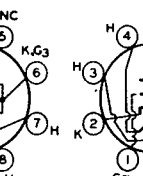
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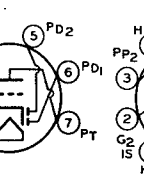
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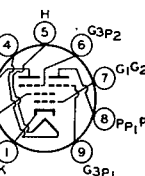
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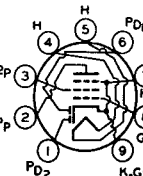
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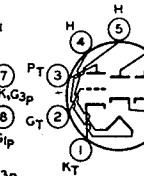
6BU8



6BV7



6BV8



6BW4

TYPE	Class	Use	E _t volts	I _t amps	E _b volts	E _{c2} volts	E _{c1} volts	I _b ma	I _{c2} ma	r _p MΩμ	g _m mhos	
6BW6	5	Class A Amplifier	6.3	0.45	180 250	180 250	-8.5 -12.5	29 45	3.0 4.5	0.058 0.052	3700 4100	R _L = 5.5 KΩ, W _o = 2.0 watts R _L = 5.0 KΩ, W _o = 4.5 watts
6BW7	5	RF Amplifier	6.3	0.3	250	250	*	9.5	3.5	0.75	8500	R _k = 180 Ω
6BW8	2, 2, 5	RF Amplifier	6.3	0.45	250	110	*	10.0	3.5	0.25	5200	R _k = 68 Ω
6BX4	2R, 2R	Full-wave Rectifier	6.3	0.6	Max. PIV = 1350 volts Max. Peak Plate Current = 270 ma Max. DC Output Current = 90 ma							
6BX6	5	RF Amplifier	6.3	0.3	170	170	-2.0	10	2.5	0.4	7200	
6BX7GT	3, 3	Class A Amplifier	6.3	1.5	250	—	*	42	—	0.013	7600	μ = 10, R _k = 390 Ω
6BX8	3, 3	Cascode Amplifier	6.3	0.4	65	—	-1.0	9.0	—	—	6700	μ = 25
6BY5G	2, 2	TV Damper Diode	6.3	1.6	Max. PIV = 3000 volts, Max. DC Output Current = 175 ma Max. Peak Plate Current/Plate = 525 ma							
6BY5GA	2, 2	TV Damper Diode	6.3	1.6	Max. PIV = 3000 volts (Abs.) Max. Peak Plate Current Plate = 525 ma Max. DC Plate Current = 175 ma							
6BY6	7	Sync. Separator and Clipper	6.3	0.3	10	25	0	1.4	3.5	—	—	E _{c3} = 0 volts
6BY7	5	RF Amplifier	6.3	0.3	250	100	-2.0	10.0	2.5	0.5	6000	
6BY8	2, 5	Detector Amplifier	6.3	0.6	100 250	100 150	* *	5.0 10.6	2.1 4.3	0.5 1.0	3900 5200	R _k = 150 R _k = 68
6BZ6	5	IF Amplifier	6.3	0.3	200	150	*	11	2.6	0.6	6100	R _k = 180 Ω
6BZ7	3, 3	Class A Amplifier	6.3	0.4	150	—	*	10	—	0.0056	6800	R _k = 220 Ω, μ = 38 Cutoff volts = -11 volts
6BZ8	3, 3	Cascode Amplifier	6.3	0.4	125	—	*	10	—	0.0056	8000	R _k = 100 Ω
6C4	3	Power Triode	6.3	0.15	250 100	— —	-8.5 0	10.5 11.8	— —	0.0077 0.0062	2200 3100	μ = 17 μ = 19.5
6C5 6C5G 6C5GT	3	Class A Amplifier	6.3	0.3	250	—	-8.0	8.0	—	0.010	2000	μ = 20
6C6	5	AF Amplifier	6.3	0.3	See 6J7G Characteristics							
6C7	2, 2, 3	Triode Amplifier	6.3	0.3	250	—	-9.0	4.5	—	0.016	1250	
6C8G	3, 3	Amplifier	6.3	0.3	250	—	-4.5	3.2	—	0.022	1600	
6CA4	2R, 2R	Full-wave Rectifier	6.3	1.0	Max. Peak Plate Current/Plate = 450 ma Max. DC Output Current = 150 ma Max. PIV = 1000 volts							
6CA5	5	Class A Amplifier	6.3	1.2	110 125	110 125	-4.0 -4.5	32 37	3.5 4.0	0.016 0.015	8100 9200	
6CA7	5	Power Amp.	6.3	1.5	250	150	-14.5	70	10.0	0.18	9000	W _o = 8.0 watts
6CB5	5	Class A Amplifier	6.3	2.5	175	175	-30	90	6.0	0.005	8800	
6CB5A		Horiz. Deflection Amplifier			Max. Peak Pos. Plate Voltage = 6800 volts Max. Plate Dissipation = 23 watts Max. DC Screen Voltage = 200 volts Max. DC Cathode Current = 220 ma							
6CB6 6CB6A	5	Class A Amplifier	6.3	0.3	200	150	*	9.5	2.8	0.6	6200	R _k = 180 Ω

*See quoted value of R_k