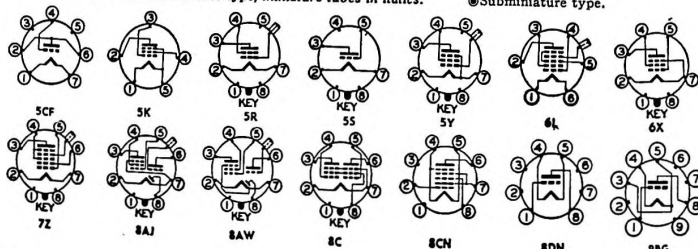


Tube Type	Classification by Construction	Base Connections	Outline Dwg	Type Cathode	Filament Volts	Filament Amp	Max Plate Volts	Max Screen Volts	Capacitance in Micromicrofarads		
									Input	Out-put	Grid-plate
1B8-GT	Diode-Triode Power Amplifier Pentode	8AW	9-17	Fil	1.4 DC	0.1	110	110	Pentode Section		
							110	—	Triode Section		
1C3	Medium-Mu Triode	5CF	5-2	Fil	1.4 DC	0.05	110	—	0.9	4.2	1.8
1C5-GT	Power Amplifier Pentode	6X	9-11	Fil	1.4 DC	0.1	110	110	—	—	—
1C8	Pentagrid Converter	6L	12-6	Fil	2.0 DC	0.12	180	67.5	Osc $I_{g1} = 0.2$ ma $R_{g1} = 50,000$ ohms		
1C7-G	Pentagrid Converter	7Z	12-8	Fil	2.0 DC	0.12	180	67.5	Osc $I_{g1} = 0.2$ ma $R_{g1} = 50,000$ ohms		
1C8	Pentagrid Converter	8CN	3-2	Fil	1.25 DC	0.04	67.5	45	Osc $I_{g1} = 0.070$ ma $R_{g1} = 100,000$ ohms		
1D3	Low-Mu High-Frequency Triode	8DN	3-2	Fil	1.25 DC	0.3	110	—	1.0	1.0	2.6
1D5-Gp	Remote-Cutoff RF Pentode	5Y	12-8	Fil	2.0 DC	0.06	180	67.5	5.0	11.0	0.007
1D5-Gt	Remote-Cutoff RF Tetrode	6R	12-8	Fil	2.0 DC	0.06	180	67.5	—	—	—
1D7-G	Pentagrid Converter	7Z	12-8	Fil	2.0 DC	0.06	180	67.5	Osc $I_{g1} = 0.2$ ma $R_{g1} = 50,000$ ohms		
1D8-GT	Diode-Triode Power Amplifier Pentode	8AJ	9-17	Fil	1.4 DC	0.1	110	110	Pentode Section		
							110	—	Triode Section		
1E3	High-Frequency Medium-Mu Triode	9BG	6-2	Fil	1.25 DC	0.22	150	—	1.25	0.75	1.5
1E4-G	Medium-Mu Triode	5S	9-25	Fil	1.4 DC	0.05	110	—	2.4	6.0	2.4
1E5-Gp	Sharp-Cutoff RF Pentode	5Y	12-8	Fil	2.0 DC	0.06	180	67.5	5.0	11.0	0.007
1E7-G	Twin-Pentode Power Amplifier	8C	12-7 8-11 or 9-41	Fil	2.0 DC	0.24	135	135	Each Section		
1E7-GT									Both Sections in Push-pull		
1E8	Pentagrid Converter	8CN	3-5	Fil	1.25 DC	0.04	67.5	45	Osc $I_{g1} = 0.070$ ma $R_{g1} = 100,000$ ohms		
1F4	Power Amplifier Pentode	5K	14-1	Fil	2.0 DC	0.12	180	180	—	—	—
1F5-G	Power Amplifier Pentode	6X	12-7	Fil	2.0 DC	0.12	180	180	—	—	—

Metal tubes are shown in bold-face type, miniature tubes in italics.

③ Subminiature type.



Service	Plate Volts	Screen Volts	Neg Grid Volts	Plate Milli-amperes	Screen Milli-amperes	R_p Ohms	G_m umhos	# Factor	Load for Rated Out-put, Ohms	Power Out-put, Watts	Tube Type
Class A Amplifier	90	90	6.0	6.3†	1.4†	—	1,150	—	14,000	0.210	1B8-GT
Class A Amplifier	90	—	0	0.15	—	240,000	275	—	—	—	
Class A Amplifier	90 90	—	3.0 0	1.4 4.5	—	19,000 11,200	760 1,300	14.5 14.5	—	—	1C3
Class A Amplifier	90 83	90 83	7.5† 7.0	1.6† 7.0†	1.6†	115,000 110,000	1,550 1,600	—	8,000 9,000	0.240 0.200	1C5-GT
Converter	180	67.5	3.0	1.5	2.0	700,000	325 #	E_{c1} (Osc Plate) = 180 thru 20,000 ohms $I_{c1} = 4.0$ ma		—	1C8
Converter	180	67.5	3.0	1.5	2.0	700,000	325 #	E_{c1} (Osc Plate) = 180 thru 20,000 ohms $I_{c1} = 4.0$ ma		—	1C7-G
Converter	67.5	67.5	0	1.0	1.5	400,000	150 #	$R_{g1} = 20,000$ ohms		—	1C8
Class A Amplifier	90	—	5.0	12.5	—	—	3,400	8.7	—	—	1D3
Class A Amplifier	180	67.5	3.0	2.3	0.8	1,000,000	750	—	—	—	1D5-Gp
Class A Amplifier	180	67.5	3.0	2.2	0.7	600,000	650	—	—	—	1D5-Gt
Converter	180	67.5	3.0	1.3	2.4	500,000	300 #	E_{c1} (Osc Plate) = 180 thru 20,000 ohms $I_{c1} = 2.3$ ma		—	1D7-G
Class A Amplifier	90	90	9.0	5.0	1.0	200,000	925	—	12,000	0.20	1D8-GT
Class A Amplifier	90	—	0	1.1	—	43,500	575	25	—	—	
Class A Amplifier	150	—	3.5	20	—	—	3500	14	—	—	1E3
Class A Amplifier	90 90	—	0 3.0	4.5 1.4	—	11,200 19,000	1,300 760	14.5 14.5	—	—	1E4-G
Class A Amplifier	180 90	67.5 67.5	3.0 3.0	1.7 1.6	0.6 0.7	1,500,000 1,000,000	650 600	—	—	—	1E5-Gp
Class A Amplifier	135 90	135 90	4.5 3.0	7.5† 3.8†	2.2† 2.1†	280,000 340,000	1,425 1,150	—	16,000 20,000	0.29 0.11	1E7-G 1E7-GT
Class A Amplifier	135	135	7.5	7.0†	2.0†	—	—	—	24,000	0.575	
Converter	67.5	67.5	0	1.0	1.5	400,000	150 #	$R_{g1} = 20,000$ ohms		—	1E8
Class A Amplifier	135 90	135 90	4.5 3.0	8† 4	2.4† 1.1	200,000 240,000	1,700 1,400	—	16,000	0.31	1F4
Class A Amplifier	135 90	135 90	4.5 3.0	8† 4	2.4† 1.1	200,000 240,000	1,700 1,400	—	16,000	0.31	1F5-G

‡ Approximate.

▲ Without external shield.

† Zero signal.

‡ Grids 3 and 5 are screen. Grid 4 is signal-

input grid.

Conversion transconductance.

* Maximum.

♥ Grids 2 and 4 are screen. Grid 3 is signal-

input grid.

♦ Screen supply voltage.

▲ Absolute maximum rating.

‡ Plate-to-plate.

♦ Per section.

③ For both sections.

* Minimum.

♥ Heater warm-up time controlled for

series-string service.

‡ Plate supply voltage.

|| Input plate.

— The duration of the pulse voltage must not exceed 15 percent of one scanning cycle.

1— Section 1.

2— Section 2.

— A resistor of 3 ohms must be put in series with heater.