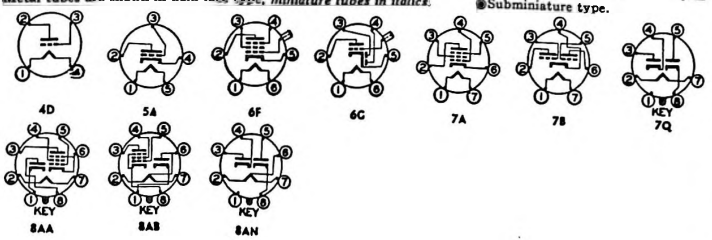
Tube Type	Classification by Construction	Base Connections	Outline Dwg	Type Cathode	Filament Volts	Filament Amp	Max Plate Volts	Max Screen Volts	Capacitance in Micromicrofarads: Input	Output	Grid-plate
50Y6-GT	High-Vacuum Rectifier-Doubler	7Q	9–11	Htr	50.0	0.15	Tube Voltage Drop: ♠ 22 v at 150 ma d-c				
50Y7-GT	High-Vacuum Rectifier-Doubler	8AN	9–11 or 9–41	Htr	50.0	0.15	Tube Voltage Drop: ♠ 22 v at 150 ma d-c				
50Z6-G	High-Vacuum Rectifier-Doubler	7Q	14–3	Htr	50.0	0.3	—	—	—	—	—
50Z7-G	High-Vacuum Rectifier Doubler	8AN	12–7	Htr	50.0	0.15	Tube Voltage Drop: ♠ 21 v at 130 ma d-c				
53	Twin Triode Power Amplifier	7B	14–1	Htr	2.5	2.0	300	—	Both Sections in Push-pull		
								—	Both Sections in Parallel		
55	Duplex-Diode Medium-Mu Triode	6G	12–6	Htr	2.5	1.0	250	—			
56	Medium-Mu Triode	5A	12–5	Htr	2.5	1.0	250	—			
57	Sharp-Cutoff Pentode	6F	12–2	Htr	2.5	1.0	300	125	Pentode Connection		
							250		Triode Connection (G_1, G_2, & P Tied)		
58	Remote-Cutoff RF Pentode	6F	12–2	Htr	2.5	1.0	300	100	—	—	—
59	Power Amplifier Pentode	7A	16–1	Htr	2.5	2.0	250	250	—	—	—
70A7-GT	Half-Wave Rectifier Beam Power Amplifier	8AB	9–11	Htr	70.0	0.15	110	110	—	—	—
									Tube Voltage Drop: 14 v at 120 ma d-c		
70L7-GT	Half-Wave Rectifier Beam Power Amplifier	8AA	9–15	Htr	70.0	0.15	117	117	—	—	—
									Tube Voltage Drop: 20 v at 140 ma d-c		
71-A	Power-Amplifier Triode	4D	14–1	Fil	5.0	0.25	180	—	3.2	2.9	7.5
75	Duplex-Diode High-Mu Triode	6G	12–6	Htr	6.3	0.3	250	—	—	—	—
76	Medium-Mu Triode	5A	12–5	Htr	6.3	0.3	250	—	3.5	2.5	2.8
77	Sharp-Cutoff Pentode	6F	12–6	Htr	6.3	0.3	300	100	4.7▲	11.0▲	0.007 ♣
78	Remote-Cutoff RF Pentode	6F	12–6	Htr	6.3	0.3	300	150	4.5	11.0	0.007 ♣

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



Service	Plate Volts	Screen Volts	Neg Grid Volts	Plate Milliamperes	Screen Milliamperes	R_p, Ohms	G_m, μmhos	μ Factor	Load for Rated Output, Ohms	Power Output, Watts	Tube Type
Rectifier or Doubler	Max d-c output current per plate = 75 ma; max peak inverse voltage = 700 volts; max rms supply voltage per plate = 235 volts; max peak current per plate = 450 ma										50Y6-GT
Rectifier or Doubler	Max d-c output current per plate = 75 ma; max peak inverse voltage = 700 volts; max rms supply voltage per plate = 235 volts; max peak current per plate = 450 ma With panel lamp #40 or #47 between pins 6 and 7 and no shunting resistor, max d-c output current per plate = 60 ma. With panel lamp and 250 ohm shunting resistor (max), max d-c output per plate = 65 ma.										50Y7-GT
Rectifier or Doubler	Max d-c output current per plate = 125 ma; max peak inverse voltage = 700 volts; max rms supply voltage per plate = 235 volts; max peak current per plate = 750 ma										50Z6-G
Rectifier or Doubler	Max d-c output current per plate = 65 ma; max peak inverse voltage = 700 volts; max rms supply voltage per plate = 235 volts; max peak current per plate = 400 ma. Ratings also apply with panel lamp 292 or 292A between pins 6 and 7.										50Z7-G
Class B Amplifier	300	—	0.0	17.5†	—	—	—	—	8,000 ‡	10§	53
Class A Amplifier	294	—	6.0	7.0	—	11,000	3,200	35	‡	—	
Class A Amplifier	250	—	20	8.0†	—	7,500	1,100	8.3	20,000	0.350	55
Class A Amplifier	250	—	13.5	5.0	—	9,500	1,450	13.8	—	—	56
Class A Amplifier	250	100	3.0	2.0	0.5	1,000,000*	1,225	—	—	—	57
Class A Amplifier	250	—	8.0	6.5	—	10,500	1,900	20	—	—	
Class A Amplifier	250	100	3.0	8.2	2.0	800,000§	1,600	—	—	—	58
Class A Amplifier	250	250	18	35	9.0	40,000	2,500	—	6,000	3.0	59
Class A Amplifier Half-Wave Rectifier	110	110	7.5	40†	3.0†	—	5,800	—	2,500	1.5	70A7-GT
	Max d-c output current = 60 ma; max rms supply voltage = 125 volts. A panel lamp must be connected between pins 6 and 7.										
Class A Amplifier Half-Wave Rectifier	110	110	7.5	40†	3.0†	15,000	7,500	—	2,000	1.8	70L7-GT
	Max d-c output current = 70 ma; max peak inverse voltage = 350 volts; max rms supply voltage = 117 volts; max peak current = 420 ma										
Class A Amplifier	180	—	40.5	20†	—	1,750	1,700	3.0	4,800	0.790	71-A
Class A Amplifier	250	—	2.0	0.9	—	91,000§	1,100	100	—	—	75
Class A Amplifier	250	—	13.5	5.0	—	9,500	1,450	13.8	—	—	76
Class A Amplifier	250	100	3.0	2.3	0.5	1,000,000*	1,250	—	—	—	77
Class A Amplifier	250	125	3.0	10.5	2.6	600,000§	1,650	—	—	—	78

§ 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.
⊕ For both sections.
* Minimum.
¶ Heater warm-up time controlled for series-string service.
§ Plate supply voltage.
‖ Input plate.
‡₁ The duration of the pulse voltage must not exceed 15 percent of one scanning cycle.
‡₁ Section 1.
‡₂ Section 2.
₄ A resistor of 3 ohms must be put in series with heater.