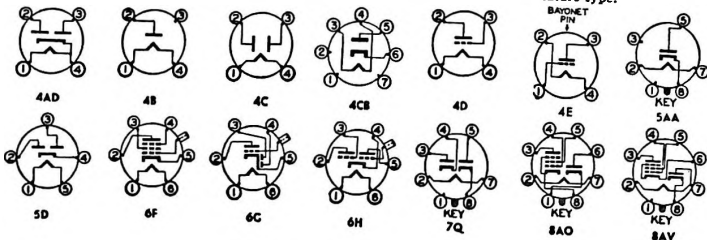


Tube Type	Classification by Construction	Base Connections	Out-line Dwg	Type Cathode	Filament Volts	Filament Amp	Max Plate Volts	Max Screen Volts	Capacitance in Micromicrofarads		
									Input	Out-put	Grid-plate
79	Twin-Triode Power Amplifier	6H	12-6	Htr	6.3	0.6	250	—	Both Sections in Push-pull		
80	Full-Wave High-Vacuum Rectifier	4C	14-1	Fil	5.0	2.0	Tube Voltage Drop: Φ 60 v at 125 ma d-c				
81	Half-Wave High-Vacuum Rectifier	4B	T-X or 16-1	Fil	7.5	1.25	Tube Voltage Drop: Φ 91 v at 170 ma d-c				
82	Full-Wave Mercury-Vapor Rectifier	4C	14-1	Fil	2.5	3.0	Tube Voltage Drop: Φ 15 v				
83	Full-Wave Mercury-Vapor Rectifier	4C	16-1	Fil	5.0	3.0	Tube Voltage Drop: Φ 15 v				
83-V	Full-Wave High-Vacuum Rectifier	4AD	14-1	Htr	5.0	2.0	Tube Voltage Drop: Φ 25 v at 175 ma d-c				
84/62A	Full-Wave High-Vacuum Rectifier	5D	12-5	Htr	6.3	0.5	Tube Voltage Drop: Φ 20 v at 60 ma d-c				
85	Duplex Diode Medium-Mu Triode	6G	12-6	Htr	6.3	0.3	250	—	1.5	4.3	1.5
89	Power-Amplifier Pentode	6F	12-6	Htr	6.3	0.4	250	—	Triode connection (G ₁ , G ₂ , & P tied)		
							250	250	Pentode connection		
V99 X99	Low-Mu Triode	4E 4D	T-X 9-25	Fil	3.3 DC	0.063	90	—	2.5	2.5	3.3
117L7/ M7-GT	Half-Wave Rectifier Beam Power Amplifier	8AO	9-15	Htr	117	0.09	117	117	—	—	—
							Tube Voltage Drop: Φ 16 v at 150 ma d-c				
117N7-GT	Half-Wave Rectifier Beam Power Amplifier	8AV	9-15	Htr	117	0.09	117	117	—	—	—
							Tube Voltage Drop: Φ 16 v at 150 ma d-c				
117P7-GT	Half-Wave Rectifier Beam Power Amplifier	8AV	9-15	Htr	117	0.09	117	117	—	—	—
							Tube Voltage Drop: Φ 10 v at 150 ma d-c				
117Z3	Half-Wave High-Vacuum Rectifier	4CB	5-3	Htr	117	0.04	Tube Voltage Drop: Φ 22.5 v at 180 ma d-c				
117Z4-GT	Half-Wave High-Vacuum Rectifier	5AA	9-5	Htr	117	0.04	Tube Voltage Drop: Φ 22.5 v at 180 ma d-c				
117Z6-GT	High-Vacuum Rectifier Doubler	7Q	9-11	Htr	117	0.075	Tube Voltage Drop: Φ 15.5 v at 120 ma d-c				
182-B/ 482B	Power Amplifier Triode	4D	14-1	Fil	5.0	1.25	250	—	—	—	—

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 μ mhos	F _o Factor	Load for Rated Out-put, Ohms	Power Out-put, Watts	Tube Type
Class B Amplifier	250	—	0	10.5†	—	Input signal = .380 watt			14,000 $\pm$	8.0‡	79
Full-Wave Rectifier	Max d-c output current = 125 ma; max peak inverse voltage = 1400 volts; rms supply voltage per plate = 350 volts; max peak current per plate = 400 ma										80
Half-Wave Rectifier	Max d-c output current = 85 ma; max peak inverse voltage = 2000 volts; max rms supply voltage = 700 volts; max peak current = 500 ma										81
Full-Wave Rectifier	Max d-c output current = 115 ma; max peak inverse voltage = 1,550 volts; max rms supply voltage per plate = 450 volts; max peak current per plate = 600 ma										82
Full-Wave Rectifier	Max d-c output current = 225 ma; max peak inverse voltage = 1,550 volts; max rms supply voltage per plate = 450 volts; max peak current per plate = 1,000 ma										83
Full-Wave Rectifier	Max d-c output current = 175 ma; max peak inverse voltage = 1400 volts; max rms supply voltage per plate = 375 volts; max peak current per plate = 525 ma										83-V
Full-Wave Rectifier	Max d-c output current = 60 ma; max peak inverse voltage = 1,250 volts; max rms supply voltage per plate = 325 volts; max peak current per plate = 180 ma										84/624
Class A Amplifier	250	—	20	8†	—	7,500	1,100	8.3	20,000	0.350	85
Class A Amplifier	250	—	31	32†	—	2,600	1,800	4.7	5,500	0.900	89
Class A Amplifier	250	250	25	32†	5.5†	70,000	1,800	—	6,750	3.4	
Class A Amplifier	90	—	4.5	2.5	—	15,500	425	6.6	—	—	V99 X99
Class A Amplifier Half-Wave Rectifier	105	105	5.2	43†	4†	17,000‡	5,300	—	4,000	0.85	117L7/ M7-GT
Class A Amplifier Half-Wave Rectifier	100	100	6.0	51†	5†	16,000‡	7,000	—	3,000	1.2	117N7-GT
Class A Amplifier Half-Wave Rectifier	105	105	5.2	43†	4†	17,000‡	5,300	—	4,000	0.85	117P7-GT
Half-Wave Rectifier	Max d-c output current = 90 ma; max peak inverse voltage = 330 volts; max rms supply voltage = 117 volts; max peak current = 540 ma										117Z3
Half-Wave Rectifier	Max d-c output current = 90 ma; max peak inverse voltage = 350 volts; max rms supply voltage = 117 volts; max peak current = 540 ma										117Z4-GT
Rectifier or Doubler	Max d-c output current per plate = 60 ma; max peak inverse voltage = 700 volts; max rms supply voltage per plate = 235 volts; max peak current per plate = 300 ma										117Z6-GT
Class A Amplifier	250	—	35	18	—	—	1,500	5.0	—	—	182-B/482B

‡ 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.

— Section 1.

— Section 2.

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