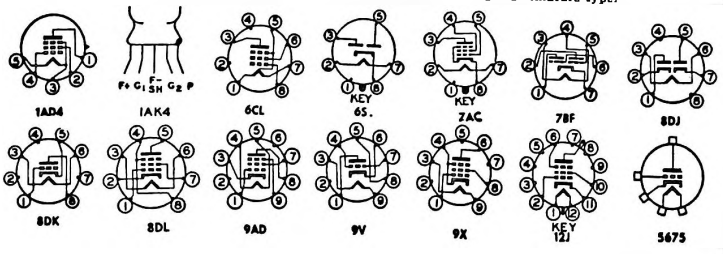
Tube Type	Classification by Construction	Base Connections	Outline Dwg	Type Cathode	Filament Volts	Filament Amp	Max Plate Volts	Max Screen Volts	Capacitance in Micromicrofarads: Input	Output	Grid-plate
5839	Full-Wave High-Vacuum Rectifier	6S	T-X	Htr	26.5	0.285	—	—	—	—	—
5840 ◉	Sharp-Cutoff RF Pentode	8DL	3–1	Htr	6.3	0.15	165 ▣	155 ▣	4.2	3.4	0.015 ♣
5842	High-Mu Triode	9V	6–1	Htr	6.3	0.3	180	—	—	—	—
5844	Medium-Mu Twin Triode	7BF	5–2	Htr	6.3	0.3	175	—	2.4 ▲	0.5 ▲ / 0.4 ▲	2.7 ▲
5847	Sharp-Cutoff RF Pentode	9X	6–1	Htr	6.3	0.3	180	150	7.1	2.9	0.04
5851 ◉	Beam Power Amplifier	6CL	T-X	Fil	1.25 / 2.50 DC	0.11 / 0.055	180	135	2.5	3.0	0.055
5852	Full-Wave High-Vacuum Rectifier	6S	T-X	Htr	6.3	1.2	—	—	—	—	—
5854 ◉	Power Amplifier Pentode	1AK4	2–1	Fil	1.25	0.03	50 ▣	50 ▣	—	—	—
5871	Beam Power Amplifier (Special 6V6-GT)	7AC	9–11	Htr	6.3	0.45	315	285	9.5	7.5	0.7
5873 ◉	Medium-Mu Twin Triode	5873	3–2	Htr	6.3	0.3	300	—	—	—	—
5875 ◉	Sharp-Cutoff Pentode	1AD4	2–1	Fil	1.25 DC	0.1	90	90	4.0	4.0	0.03 ♣
5876	High-Mu Triode (Pencil)	5675	T-X	Htr	6.3	0.135	300	—	2.5 ▲	0.035 ▲	1.4 ▲
5879	Sharp-Cutoff AF Pentode	9AD	6–2	Htr	6.3	0.15	300	150	Pentode Connection		
							250	—	Triode Connection (G_1, G_3 & P Tied)		
5881	Beam Power Amplifier (Special 6L6-G)	7AC	T-X	Htr	6.3	0.9	360	270	Single Tube		
									Two tubes, Push-pull		
5890	Remote-Cutoff Pentode Regulator	12J	T-X	Htr	6.3	0.6	30,000 ▣	450 ▣	E_{c3} = 5,500 volts E_{c3} = 5,500 volts E_{c3} = 5,500 volts		
5896 ◉	High-Frequency Twin Diode	8DJ	3–1	Htr	6.3	0.3	Tube Voltage Drop: ♠ 4.5 v at 18 ma d-c				
5897 ◉	Medium-Mu Triode	8DK	3–1	Htr	6.3	0.15	165 ▣	—	2.2	0.7	1.40
5898 ◉	High-Mu Triode	8DK	3–1	Htr	6.3	0.15	165 ▣	—	2.40	0.60	0.70
5899 ◉	Semi-Remote-Cutoff RF Pentode	8DL	3–1	Htr	6.3	0.15	165 ▣	155 ▣	4.2	3.4	0.015 ♣

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	# Factor	Load for Rated Output, Ohms	Power Output, Watts	Tube Type
Full-Wave Rectifier	Max d-c output current = 65 ma; max peak inverse voltage = 1,375 volts; rms supply voltage per plate = 300 volts; max peak current per plate = 270 ma										5839
Class A Amplifier	100	100	R_k = 150	7.5	2.4	260,000	5,000	—	—	—	5840 ◉
Class A Amplifier	150	—	R_k = 62	26	—	1,800	24,000	43	—	—	*5842*
Class A Amplifier ♠	100	—	R_k = 470	4.8	—	7,950§	3,400	27	—	—	*5844*
Frequency Haller ♠	150‡	—	0	4.8*	—	$R_{g'}$ = 47,000 ohms			20,000	—	
	150‡	—	10	0.1 ♣	—	$R_{g'}$ = 47,000 ohms			20,000	—	
Class A Amplifier	150	150	R_k = 110	13	4.5	—	12,500	—	—	—	*5847*
Class A Amplifier	125	125	7.5	5.5	0.9	175,000	1,600	—	—	—	5851 ◉
Full-Wave Rectifier	Max d-c output current = 65 ma; max peak inverse voltage = 1,375 volts; rms supply voltage per plate = 300 volts; max peak current per plate = 270 ma										5852
Class A Amplifier	45	45	2.0	0.8	0.25	350,000	550	—	50,000	0.0095	5854 ◉
Class A Amplifier	315	225	13	34	2.2	77,000	3,750	—	8,500	5.5	5871
Class A Amplifier ♠	150	—	3.0	9.0	—	—	2,900	22	—	—	5873 ◉
Class A Amplifier	90	90	0	3.5	1.0	—	2,500	—	—	—	5875 ◉
Class A Amplifier	250	—	R_k = 75	18	—	8,625	6,500	56	—	—	5876
Class A Amplifier	250	100	3.0	1.8	0.4	2,000,000	1,000	—	—	—	*5879*
Class A Amplifier	250	—	8.0	5.5	—	13,700	1,530	21	—	—	
Class A Amplifier	350	250	18	53†	2.5†	48,000	5,200	—	4,200	11.3	5881
Class A Amplifier	250	250	14	75†	4.3	30,000	6,100	—	2,500	6.7	
Class AB1 Amplifier	360	270	22.5	88†	5.0	—	—	—	3,800	18	
	360	270	22.5	88†	5.0	—	—	—	6,600	26.5	
Shunt Regulator	30,000	200	60	0	0	—	Peak G_1 signal = 0 volts				5890
	30,000	200	60	0.06	0	—	Peak G_1 signal = 20 volts				
	30,000	200	60	0.50	0	—	Peak G_1 signal = 45 volts				
Full-Wave Rectifier	Max d-c output current per plate ▣ = 10 ma; max peak inverse voltage ▣ = 460 volts; rms supply voltage per plate = 150 volts; max peak current per plate ▣ = 60 ma										5896 ◉
Class A Amplifier RF Oscillator	100	—	R_k = 150	8.5	—	—	5,800	27	—	—	5897 ◉
	150	—	—	20	—	Frequency = 500 mc				0.9	
Class A Amplifier	150	—	R_k = 680	1.7	—	—	2,700	70	—	—	5898 ◉
Class A Amplifier	100	100	R_k = 120	7.2	2.0	260,000§	4,500	—	—	—	5899 ◉

§ 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.