

50BM8 is a miniature type triode-pentode designed for use as an AF amplifier by triode section and AF power amplifier by pentode section in radio receivers.

BASE E9-1 Small Button Noval 9-Pin

MOUNTING POSITION—Any

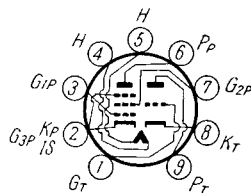
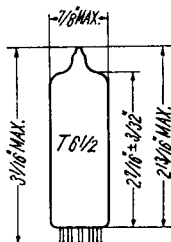
HEATER

Voltage 50 (V)

Current 0.1 (A)

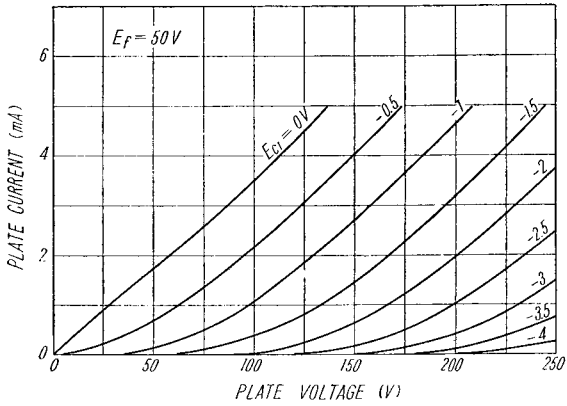
DIRECT INTERELECTRODE CAPACITANCES

(Without Shield)	Triode Unit	Pentode Unit	
Grid No. 1 to plate	4.2	0.3 max.	(pF)
Input	2.7	9.3	(pF)
Output	4.3	8.0	(pF)



MAXIMUM RATINGS (Design Center Values)			TYPICAL OPERATION		
	Triode Unit	Pentode Unit		Triode Unit	Pentode Unit
Plate Voltage	250	250 (V)	Plate Voltage	100	100 (V)
Grid No. 2 Voltage	250	250 (V)	Grid No. 2 Voltage	—	100 (V)
Plate Dissipation	1	7 (W)	Grid No. 1 Voltage	0	—6 (V)
Grid No. 2 Dissipation	—	1.8 (W)	Grid No. 1 Input	—	3.8 (V)
Total Cathode Current	15	50 (mA)	Voltage (RMS)	—	3.8 (V)
Peak Heater—Cathode Voltage			Plate Current	3.5	26 (mA)
Heater negative with			Grid No. 1 Current	—	5.0 (mA)
respect to cathode		200 (V)	Transconductance	2,500	6,800 ($\mu\Omega$)
Heater positive with			Plate Resistance		
respect to cathode		200 Δ (V)	(Approx.)	—	15 (k Ω)
Grid No. 1 Circuit Resistance			Amplification Factor	70	—
with Fixed Bias	1	1 (M Ω)	Load Resistance	—	3.9 (k Ω)
with Cathode Bias	3	2 (M Ω)	Max.-Signal Power		
with Grid Bias	22	— (M Ω)	Output	—	1.05 (W)
Δ The D.C. component must not exceed 100 volts.			Total Harmonic Distortion	—	10 (%)

AVERAGE PLATE CHARACTERISTICS
(Triode Unit)



AVERAGE PLATE CHARACTERISTICS
(Pentode Unit)

