

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)

Current0.1 (A)

DIRECT INTERELECTRODE CAPACITANCES

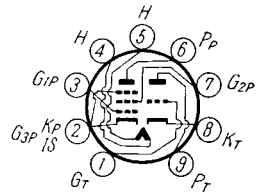
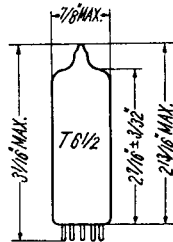
(Without Shield)

	Triode Unit	Pentode Unit
--	-------------	--------------

Grid No. 1 to plate	4.2	0.3 max. (pF)
---------------------	-----	---------------

Input	2.7	9.3 (pF)
-------	-----	----------

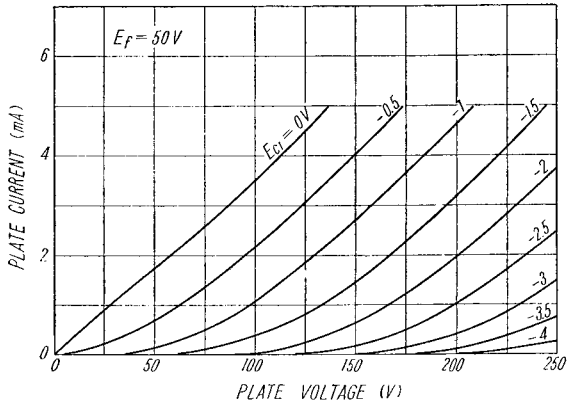
Output	4.3	8.0 (pF)
--------	-----	----------



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 Voltage (RMS)	—	3.8 (V)
Total Cathode Current	15	50 (mA)	Plate Current	3.5	26 (mA)
Peak Heater—Cathode Voltage			Grid No. 1 Current	—	5.0 (mA)
Heater negative with respect to cathode		200 (V)	Transconductance	2,500	6,800 ($\mu\Omega$)
Heater positive with respect to cathode		200 Δ (V)	Plate Resistance (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 Output	—	1.05 (W)
with Grid Bias	22	— (M Ω)	Total Harmonic Distortion	—	10 (%)

Δ The D.C. component must not exceed 100 volts.

AVERAGE PLATE CHARACTERISTICS
(Triode Unit)



AVERAGE PLATE CHARACTERISTICS
(Pentode Unit)

