

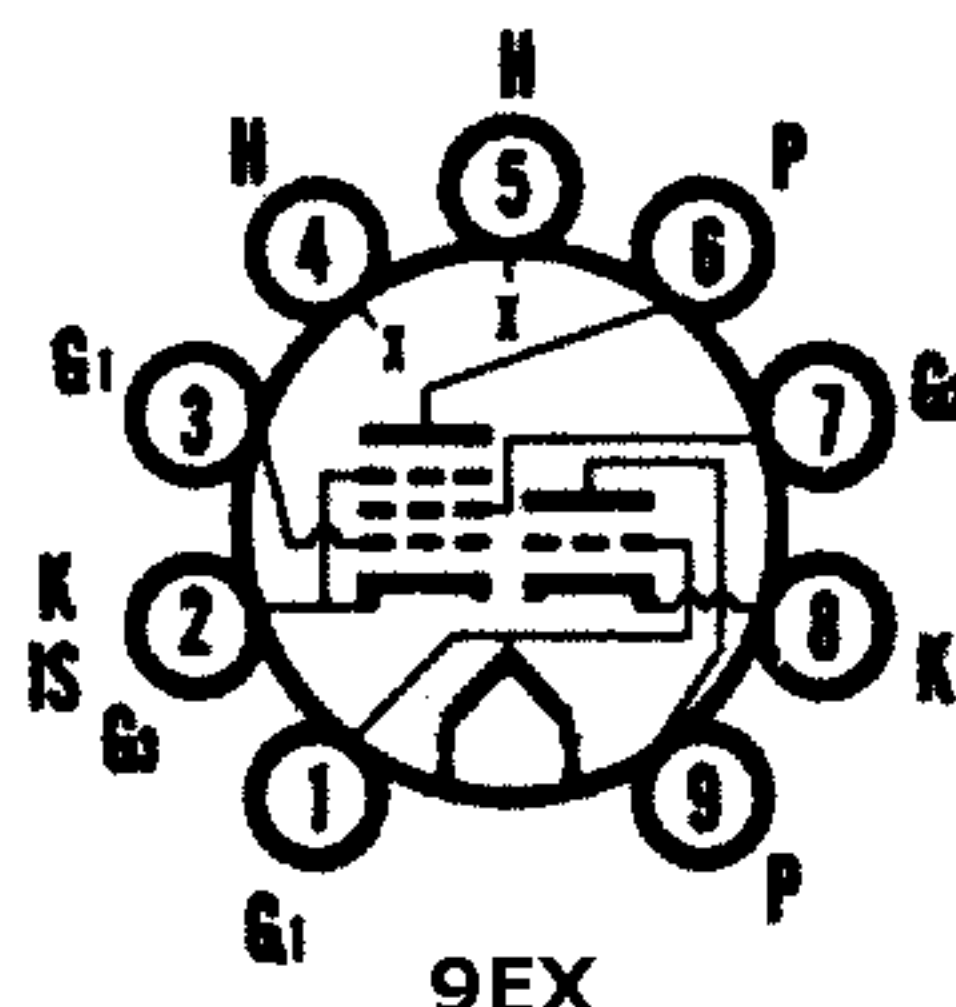
6BM8/ECL82

Color Television Type

**AF AMPLIFIER or OSCILLATOR
AUDIO POWER AMPLIFIER**

Triode and Power Pentode

Construction	Miniature T-6½
Base	Button 9 Pin, E9-1
Basing	9EX
Outline	6-4
Maximum Diameter	0.875 In.
Maximum Seated Height	2.813 In.
Maximum Overall Height	3.063 In.



ELECTRICAL DATA

HEATER OPERATION

Heater Voltage.....	6.3 Volts
Heater Current	780 Ma
Maximum Heater-Cathode Voltage	100 Volts

DIRECT INTERELECTRODE CAPACITANCES

Triode

Grid to All Other Elements Except Plate	2.7 Pf
Plate to All Other Elements Except Grid	4.0 Pf
Plate to Grid	4.0 Pf
Grid to Heater (Max.)	0.1 Pf

Pentode

Grid No. 1 to All Other Elements	9.3 Pf
Plate to All Other Elements	8 Pf
Grid No. 1 to Plate (Max.)	0.3 Pf
Grid to 1 to Heater (Max.)	0.3 Pf

Coupling

Triode Plate to Pentode Grid No. 1 (Max.)	0.02 Pf
Triode Grid to Pentode Plate (Max.)	0.02 Pf
Triode Grid to Pentode Grid No. 1 (Max.)	0.025 Pf
Triode Plate to Pentode Plate (Max.)	0.25 Pf

RATINGS (Design Center Rating System)

	Triode	Pentode
Plate Supply Voltage (Max.)	550	900 Volts
Plate Voltage (Max.)	300	600 Volts
Grid No. 2 Supply Voltage (Max.)	—	550 Volts
Grid No. 2 Voltage (Max.)	—	300 Volts
Cathode Current (Max.)	15	50 Ma
Plate Dissipation (Max.)	1	7 Watts
Grid No. 2 Input (Max.)	—	1.8 Watts
Grid No. 1 Circuit Resistance		
Fixed Bias (Max.)	1	1 Megohm
Cathode Bias (Max.)	2	2 Megohms

CHARACTERISTICS AND TYPICAL OPERATION

	Triode	Pentode
Plate Voltage	100	200 Volts
Grid No. 2 Voltage	—	200 Volts
Grid No. 1 Voltage	0	-16 Volts
Amplification Factor	70	9.5 ⁽¹⁾
Plate Resistance.....	—	20,000 Ohms
Transconductance	2500	6400 μ mhos
Plate Current	3.5	35 Ma
Grid No. 2 Current	—	7 Ma

NOTE:

(1) Grid No. 1 to Grid No. 2.