CHARACTERISTICS AND TYPICAL OPERATION

Pentode Section

Plate Voltage	170 Volts
Screen Voltage	170 Volts
Grid Voltage	–2 Volts
Plate Current	10 Ma
Screen Current	2.8 Ma
Transconductance	6200 μmhos
Amplification Factor	47
Plate Resistance	0.4 Megohm
Input Resistance (F = 50 MHz)	10,000 Ohms
Equivalent Noise Resistance	1500 Ohms

Triode Section

Plate Voltage	100 Volts
Grid Voltage	–2 Volts
Plate Current	14 Ma
Transconductance	5000 μmhos
Amplification Factor	20

Converter Service(3)

Plate Voltage	170	170 Volts
Screen Voltage	170	170 Volts
Grid Resistance	0.1	0.1 Megohm
Cathode Resistor	330	820 Ohms
Oscillator Voltage	3.5	3.5 Volts
Plate Current	6.5	5.2 Ma
Screen Current	2.0	1.5 Ma
Grid Current	20	0 μa
Conversion Conductance	2200	2100 μmhos
Internal Resistance	0.8	0.87 Megohm

NOTES:

(1) If the plate dissipation is less than 1.2 watts, the maximum value of the screen dissipation may be increased to 0.75 watts.
(2) Grid voltage must not be more positive than this value.
(3) The triode should be used in Colpitts rather than a Hartley type oscillator circuit.

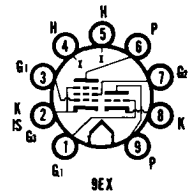
Color Television Type

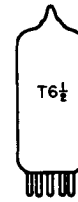
AF AMPLIFIER or OSCILLATOR AUDIO POWER AMPLIFIER

6BM8/ECL82

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