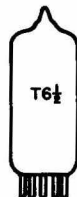
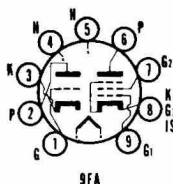


Color Television Type

**BURST AMPLIFIER (P)
VIDEO AMPLIFIER (T)****6MB8****5MB8****Medium Mu Triode and
Sharp Cutoff Pentode**

Construction Miniature T-6½
 Base Button 9 Pin, E9-1
 Basing 9FA
 Outline 6-2
 Maximum Diameter 0.875 In.
 Maximum Seated Height 1.938 In.
 Maximum Overall Height 2.185 In.

**ELECTRICAL DATA
HEATER OPERATION**

	5MB8	6MB8
Heater Voltage.....	4.5	6.3 Volts
Heater Current.....	450	400 Ma
Heater Warm-up Time.....	11	— Seconds
Maximum Heater-Cathode Voltage		
Heater Negative with Respect to Cathode		
Total DC and Peak.....		200 Volts
Heater Positive with Respect to Cathode		
DC.....		100 Volts
Total DC and Peak.....		200 Volts

DIRECT INTERELECTRODE CAPACITANCES (Shielded)**Triode Section**

Grid to Plate	1.4 Pf
Input: g ₁ to (Tk + Pk + Pg ₃ + IS + h)	2.2 Pf
Output: p to (Tk + Pk + Pg ₃ + IS + h)	1.9 Pf

Pentode Section

Grid No. 1 to Plate (Max.)	0.015 Pf
Input: g ₁ to (k + g ₃ + IS + g ₂ + h).....	5.5 Pf
Output: p to (k + g ₃ + IS + g ₂ + h).....	3.4 Pf

RATINGS (Design Maximum Rating System)

	Triode Section	Pentode Section
Plate Voltage (Max.)	280	280 Volts
Grid No. 2 Supply Voltage (Max.)	—	280 Volts
Grid No. 2 Pulse Voltage (Max.) ⁽¹⁾	—	300 Volts
Grid No. 2 Voltage	See Rating Chart (Gen. Info. Sec.)	
Cathode Current (Max.)	20	20 Ma
Plate Dissipation (Max.)	2.0	2.0 Watts
Grid No. 2 Dissipation (Max.)	—	0.5 Watt
Positive Grid No. 1 Voltage (Max.)	0	0 Volt
Maximum Grid No. 1 Circuit Resistance		
Self Bias (Max.)	0.5	0.25 Megohm
Fixed Bias (Max.)	1.0	0.5 Megohm

Control grid to cathode spacing of the pentode section of this type is of such low order of magnitude as to preclude the use of voltage between these elements of more than 30 volts DC and peak AC in commercial tube checkers and shorts indicating devices, particularly where mechanical excitation of the tube is employed.

CHARACTERISTICS AND TYPICAL OPERATION**Class A1 Amplifier**

	Triode Section	Pentode Section
Plate Voltage	125	125 Volts
Grid No. 2 Voltage	—	125 Volts
Grid No. 1 Voltage	0	0 Volt
Cathode Bias Resistor	68	33 Ohms
Plate Current	13	10 Ma
Grid No. 2 Current	—	2.8 Ma

Transconductance	8000	12,000 μ mhos
Amplification Factor	40	—
Plate Resistance (Approx.)	5000	125,000 Ohms
E _{c1} for I _b = 100 μ a	—5	— Volts
E _{c1} for I _b = 50 μ a	—	—3 Volts

NOTE:

(1) Rating determined at television horizontal deflection sweep frequency of 15,750 Hertz.