

RATINGS (Design Maximum Rating System) (Each Section)

Plate Voltage	330 Volts
Grid Voltage (Positive Bias Value)	0 Volt
Plate Dissipation	3 Watts
Grid Circuit Resistance (Fixed Bias)	1 Megohm

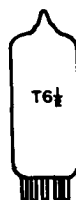
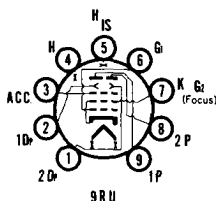
CHARACTERISTICS AND TYPICAL OPERATION**Class A1 Amplifier (Each Section)**

Plate Voltage	250 Volts
Grid Voltage	-10.5 Volts
Plate Current	11.5 Ma
Amplification Factor	17
Plate Resistance (Approx.)	5500 Ohms
Transconductance	3100 μ mhos
Ib for Ec1 = -14 Volts	4 Ma
Ec1 for Ib = 50 μ a	-23 Volts

Color Television Type

SYNCHRONOUS DETECTOR**6ME8****Sheet Beam Tube (Double Plate)**

Construction	Miniature T-6½
Base	Button 9 Pin, E9-1
Basing ⁽¹⁾	9RU
Outline	6-3
Maximum Diameter	0.875 In.
Maximum Seated Height	2.375 In.
Maximum Overall Height	2.625 In.

**ELECTRICAL DATA****HEATER OPERATION**

Heater Voltage	6.3 Volts
Heater Current	300 Ma

DIRECT INTERELECTRODE CAPACITANCES (Unshielded)

Deflector No. 1 to All	6.0 Pf
Deflector No. 2 to All	6.0 Pf
Grid No. 1 to All Except Plates	7.5 Pf
Plate No. 1 to All	6.0 Pf
Plate No. 2 to All	6.0 Pf
Grid No. 1 to Deflector No. 1 (Max.)	0.07 Pf
Grid No. 1 to Deflector No. 2 (Max.)	0.1 Pf
Plate No. 1 to Plate No. 2	0.4 Pf
Deflector No. 1 to Deflector No. 2	0.4 Pf

RATINGS (Design Maximum Rating System)

Plate Voltage (Max.)	400 Volts
Accelerator Voltage (Max.)	400 Volts
Deflector Voltage (Max.)	100 Volts
Peak Deflector Voltage	

Positive (Max.)	200 Volts
Negative (Max.)	200 Volts
Positive DC Grid No. 1 Voltage (Max.)	0 Volt
Plate Dissipation, Each Plate (Max.)	20 Watts
Accelerator Dissipation (Max.)	2.0 Watts
DC Cathode Current (Max.)	30 Ma

Grid No. 1 Circuit Resistance

Fixed Bias (Max.)	0.1 Megohm
Cathode Bias (Max.)	0.25 Megohm

CHARACTERISTICS AND TYPICAL OPERATION⁽³⁾

Plate Voltage (Plates 1 and 2 Connected Together)	250 Volts
Accelerator Voltage	350 Volts
Deflector No. 1 Voltage	75 Volts
Deflector No. 2 Voltage	75 Volts
Cathode Bias Resistor	390 Ohms
Total Plate Current	14.5 Ma
Accelerator Current	0.7 Ma
Grid No. 1 Transconductance	4400 μ mhos
Grid No. 1 Voltage (Approx.)	
Ib (total) = 10 μ a	-16 Volts
Deflector Switching Voltage (Max.) ⁽²⁾	30 Volts
Voltage Difference between Deflectors for Ib1 = Ib2 (Approx.)	0 Volt
Plate No. 1 Current (Max.) Ed1 = 55 V, Ed2 = 95 V	1.3 Ma
Plate No. 2 Current, (Max.) Ed1 = 95 V, Ed2 = 55 V	1.3 Ma

Deflector No. 1 Current (Max.) Ed1 = 125 V, Ed2 = 25 V	0.04 Ma
Deflector No. 2 Current (Max.) Ed1 = 25 V, Ed2 = 125 V	0.04 Ma

NOTES:

- (1) Pin 5 should be connected directly to ground.
- (2) Deflector switching voltage is defined as the total voltage change from +75 Volts on either deflector with an equal and opposite change on the other deflector required to switch the plate current from one plate to the other.
- (3) The 6ME8 should be so located in the equipment that it is not subjected to stray magnetic fields.

6MF8

15MF8

Color Television Type

VERTICAL DEFLECTION
OSCILLATOR and AMPLIFIER

High Mu Triode and Beam Power Pentode

Construction.....Compactron T-12
Base Button 12 Pin, E12-74
Basing 12DZ
Outline 12-57
Maximum Diameter 1.562 In.
Maximum Seated Height 2.750 In.
Maximum Overall Height 3.125 In.

**ELECTRICAL DATA
HEATER OPERATION**

Heater Voltage	14.7	6.3 Volts
Heater Current	600	1400 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 (Unshielded)

Triode Section		
Grid to Plate		6.0 Pf
Input		6.5 Pf
Output		1.6 Pf
Pentode Section		
Grid No. 1 to Plate (Max.).....		0.54 Pf
Input		9.5 Pf
Output		7.0 Pf
Coupling		
Pentode Grid No. 1 to Triode Plate (Max.)		0.12 Pf
Pentode Plate to Triode Plate (Max.)		0.32 Pf

**RATINGS (Design Maximum Rating System)
Vertical Deflection Oscillator and Amplifier⁽¹⁾**

	Tri. Osc.	Pent. Amp.
Plate Voltage (Max.)	400	400 Volts
Grid No. 2 Voltage (Max.)	—	300 Volts
Peak Positive Pulse Plate Voltage (Max.)	—	2500 Volts
Peak Negative Grid No. 1 Voltage (Max.)	400	— Volts
Plate Dissipation (Max.) ⁽²⁾	2.5	12 Watts
Grid No. 2 Dissipation (Max.) ⁽²⁾	—	2.75 Watts
Average Cathode Current (Max.).....	30	75 Ma
Peak Cathode Current (Max.)	105	260 Ma
Peak Power Output (Max.)	2.5	— Watts
Grid Circuit Resistance		
Self Bias (Max.)	2.2	2.2 Megohms
Fixed Bias (Max.)	—	1.0 Megohm
Bulb Temperature (Max.)	—	200 °C

CHARACTERISTICS AND TYPICAL OPERATION

	Triode Section	Pentode Section
Plate Voltage	250	250 Volts
Grid No. 2 Voltage	—	250 Volts
Grid No. 1 Voltage	—4	—20 Volts
Plate Current	2.6	50 Ma
Grid No. 2 Current	—	3.5 Ma

