

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**

	15MF8	6MF8
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

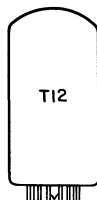
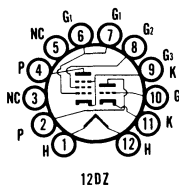
Pentode Grid No. 1 to Triode Plate (Max.)	0.12 Pf
Pentode Plate to Triode Plate (Max.)	0.32 Pf

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



Transconductance	4100	4100 μ mhos
Amplification Factor	58	—
Plate Resistance (Approx.)	14,000	5000 Ohms
E_c for $I_b = 10 \mu a$	-6.6	— Volts
E_c for $I_b = 100 \mu a$	—	-65 Volts

INSTANTANEOUS PLATE KNEE VALUES

$E_b = 60 \text{ V}$; $E_{c2} = 250 \text{ V}$; and $E_c = 0 \text{ V}$

$I_b = 200 \text{ Ma}$, and $I_{c2} = 20 \text{ Ma}$

NOTES:

- (1) For operation in a 525 line, 30 frame system as described in "Standards of Good Engineering Practice for Television Broadcast Stations; Federal Communications Commission," the duty cycle of the voltage pulse must not exceed 15% of one horizontal scanning cycle.
- (2) In stages operating with grid leak bias, an adequate bias resistor or other suitable means is required to protect the tube in the absence of excitation.