

Plate Current	12.5 Ma
Grid No. 2 Current	4.0 Ma
Transconductance	15,500 μ mhos
Plate Resistance (Approx.)	120,000 Ohms
Ec1 for gm = 1500 μ mhos (Approx.)	-2.7 Volts
Ec1 for gm = 150 μ mhos (Approx.)	-5.5 Volts

NOTE:

(1) Optimized unbypassed cathode resistor for gain controlled IF Service is 33 Ohms.

Color Television Type

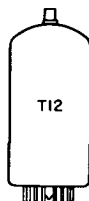
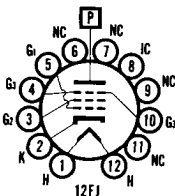
HORIZONTAL DEFLECTION AMPLIFIER

6JM6

17JM6

Beam Power Pentode

Construction.....Compactron T-12
 Base Button 12 Pin, E12-74
 Top Cap C1-3
 Basing.....12FJ
 Outline 12-79
 Maximum Diameter 1.563 In.
 Maximum Seated Height 3.250 In.
 Maximum Overall Height 3.625 In.


ELECTRICAL DATA
HEATER OPERATION

Heater Voltage.....	16.8	6.3 Volts
Heater Current	450	1200 Ma
Heater Warm-up Time	11	— Seconds
Maximum Heater-Cathode Voltage		
Heater Negative with Respect to Cathode		200 Volts
Total DC and Peak.....		
Heater Positive with Respect to Cathode		100 Volts
DC		200 Volts
Total DC and Peak.....		

DIRECT INTERELECTRODE CAPACITANCES (Unshielded)

Grid No. 1 to Plate	0.6 Pf
Input	16 Pf
Output	7 Pf

RATINGS (Design Maximum Rating System)**Horizontal Deflection Amplifier⁽¹⁾**

DC Plate Supply Voltage (Boost + DC Power Supply) (Max.)	770 Volts
Peak Positive Pulse Plate Voltage	6500 Volts
Peak Negative Pulse Plate Voltage (Max.)	1500 Volts
Positive DC Beam Plate Voltage	70 Volts
Plate Dissipation (Max.) ⁽²⁾	17.5 Watts
Peak Negative Grid No. 1 Voltage (Max.)	330 Volts
Grid No. 2 Voltage (Max.)	220 Volts
Grid No. 2 Dissipation (Max.)	3.5 Watts
Average Cathode Current (Max.)	175 Ma
Peak Cathode Current (Max.)	550 Ma
Grid No. 1 Circuit Resistance (Max.)	1.0 Megohm
Bulb Temperature (at Hottest Point) (Max.)	220 °C

CHARACTERISTICS AND TYPICAL OPERATION

Plate Voltage	5000	250 Volts
Grid No. 2 Voltage	150	150 Volts
Grid No. 1 Voltage	—	-22.5 Volts
Plate Current	—	65 Ma
Grid No. 2 Current	—	1.8 Ma
Transconductance	—	7300 μ mhos
Plate Resistance	—	18,000 Ohms
Amplification Factor ⁽³⁾	—	4.4
Ec1 for Ib = 1.0 Ma (Approx.)	-100	-42 Volts

INSTANTANEOUS PLATE KNEE VALUES

Eb = 60 V; Ec2 = 150 V and Ec1 = 0 V

Ib = 345 Ma, and Ic2 = 27 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.

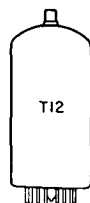
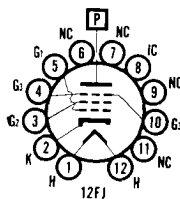
- (2) In stages operating with grid leak bias, an adequate cathode bias resistor or other suitable means is required to protect the tube in the absence of excitation.
- (3) Amplification factor with tube operating as a triode with 150 volts on the plate and Grid No. 2 and -22.5 volts on Grid No. 1.

6JM6A**17JM6A**

Color Television Type

**HORIZONTAL DEFLECTION
AMPLIFIER****Beam Power Pentode**

Construction..... Compactron T-12
 Base Button 12 Pin, E12-74
 Top Cap C1-3
 Basing..... 12FJ
 Outline 12-79
 Maximum Diameter 1.563 In.
 Maximum Seated Height 3.250 In.
 Maximum Overall Height 3.625 In.

**ELECTRICAL DATA
HEATER OPERATION**

	17JM6A	6JM6A
Heater Voltage.....	16.8	6.3 Volts
Heater Current.....	450	1200 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)

Grid No. 1 to Plate.....	0.6 Pf
Input.....	16 Pf
Output.....	7 Pf

RATINGS (Design Maximum Rating System)**Horizontal Deflection Amplifier⁽¹⁾**

DC Plate Supply Voltage (Boost + DC Power Supply) (Max.).....	770 Volts
Peak Positive Pulse Plate Voltage (Max.).....	6500 Volts
Peak Negative Pulse Plate Voltage (Max.).....	1500 Volts
Positive DC Beam Plate Voltage (Max.).....	70 Volts
Plate Dissipation (Max.) ⁽²⁾	17.5 Watts
Negative DC Grid No. 1 Voltage (Max.).....	55 Volts
Peak Negative Grid No. 1 Voltage (Max.).....	330 Volts
Grid No. 2 Voltage (Max.).....	220 Volts
Grid No. 2 Dissipation (Max.).....	3.5 Watts
Average Cathode Current (Max.).....	175 Ma
Peak Cathode Current (Max.).....	550 Ma
Grid No. 1 Circuit Resistance (Max.).....	1.0 Megohm
Bulb Temperature (At Hottest Point) (Max.).....	220 °C

CHARACTERISTICS AND TYPICAL OPERATION

Plate Voltage.....	5000	250 Volts
Grid No. 2 Voltage.....	150	150 Volts
Grid No. 1 Voltage.....	—	-22.5 Volts
Plate Current.....	—	70 Ma
Grid No. 2 Current.....	—	2.4 Ma
Transconductance.....	—	7300 μ mhos
Plate Resistance.....	—	15,000 Ohms
Amplification Factor ⁽³⁾	—	4.4
E _{c1} for I _b = 1.0 Ma (Approx.).....	-100	-42 Volts

INSTANTANEOUS PLATE KNEE VALUESE_b = 55 V; E_{c2} = 150 V and E_{c1} = 0 VI_b = 345 Ma, and I_{c2} = 30 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 cathode bias resistor or other suitable means is required to protect the tube in the absence of excitation.
- (3) Amplification factor with tube operating as a triode with 150 volts on the plate and Grid No. 2 and -22.5 volts on Grid No. 1.