

CHARACTERISTICS AND TYPICAL OPERATION

	Section No. 1	Section No. 2
Plate Voltage	250	175 Volts
Grid No. 1 Voltage	-3	-25 Volts
Plate Current	2.0	40 Ma
Transconductance	2200	6000 μ mhos
Amplification Factor	66	5.5
Plate Resistance (Approx.)	30,000	920 Ohms
Ec for Ib = 20 μ a (Approx.)	-5.3	— Volts
Ec for Ib = 200 μ a (Approx.)	—	-45 Volts

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 not to exceed 15% of one horizontal scanning cycle.
- (2) Section No. 1 connects to Pins 6, 7 and 8. Section No. 2 connects to Pins 1, 2, 3, and 9.
- (3) 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.

FM DETECTOR
AF AMPLIFIER

6FM8

Double Diode and High Mu Triode

Construction	Miniature T-6½
Base	Button, 9 Pin, E9-1
Basing	9KR
Outline	6-2
Maximum Diameter	0.875 In.
Maximum Seated Height	1.937 In.
Maximum Overall Height	2.187 In.

ELECTRICAL DATA

HEATER OPERATION

Heater Voltage	6.3 Volts
Heater Current	450 Ma
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

Grid to Plate	1.8 Pf
Input: g to (h + Tk)	1.5 Pf
Output: p to (h + Tk)	0.16 Pf

Diodes

No. 1 Diode Plate to Grid	0.05 Pf
No. 2 Diode Plate to Grid	0.04 Pf
No. 1 Diode Cathode to All	4.6 Pf
No. 2 Diode Cathode to All	4.8 Pf
No. 1 Diode Input	2.4 Pf
No. 2 Diode Input	2.2 Pf

RATINGS (Design Maximum Rating System)

Triode

Plate Voltage (Max.)	330 Volts
Positive DC Grid Voltage (Max.)	0 Volt
Plate Dissipation (Max.)	1.1 Watts

Diodes (Continuous Operation)

DC Current, Each Plate (Max.)	5 Ma
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CHARACTERISTICS AND TYPICAL OPERATION

Triode: Class A1 Amplifier

Plate Voltage	250 Volts
Grid Voltage	-3 Volts
Plate Current	1.0 Ma
Transconductance	1200 μ mhos
Amplification Factor	70
Plate Resistance (Approx.)	58,000 Ohms

Diodes

Average Current Each Plate at 5 Volts DC ⁽¹⁾	20 Ma
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NOTE:

- (1) Test condition only.

