

**ELECTRICAL DATA
HEATER OPERATION**

	2FV6	6FV6
Heater Voltage.....	2.4	6.3 Volts
Heater Current.....	600	200 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)⁽¹⁾

Grid No. 1 to Plate (Max.).....	0.03 Pf
Input.....	4.5 Pf
Output.....	3.0 Pf

RATINGS (Design Maximum Rating System)

Plate Voltage (Max.).....	275 Volts
Grid No. 2 Supply Voltage (Max.).....	180 Volts
Grid No. 2 Voltage.....	See Rating Chart (Gen. Info. Sec.)
Positive Grid No. 1 Voltage (Max.).....	0 Volt
Plate Dissipation (Max.).....	2.0 Watts
Grid No. 2 Input (Max.).....	0.5 Watt
Cathode Current (Max.).....	20 Ma
Grid No. 1 Circuit Resistance (Self Bias) (Max.).....	0.5 Megohm

CHARACTERISTICS AND TYPICAL OPERATION

Plate Voltage.....	125 Volts
Grid No. 2 Voltage.....	80 Volts
Grid No. 1 Voltage.....	-1 Volt
Plate Current.....	10 Ma
Grid No. 2 Current.....	1.5 Ma
Transconductance.....	8000 μ mhos
Plate Resistance.....	0.1 Megohm
Grid No. 1 Voltage for $I_b = 20 \mu$ a.....	-6 Volts

NOTE:

(1) Shield No. 316 connected to cathode.

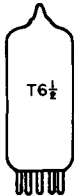
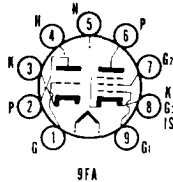
**VERTICAL DEFLECTION OSC. (T)
IF/GEN. PURPOSE AMP. (P)**

6FV8A

5FV8

**Medium Mu Triode and
Sharp Cutoff Pentode**

Construction.....	Miniature T-6 $\frac{1}{2}$
Base.....	Button 9 Pin, E9-1
Basing.....	9FA
Outline.....	6-2
Maximum Diameter.....	0.875 In.
Maximum Seated Height.....	1.937 In.
Maximum Overall Height.....	2.187 In.



**ELECTRICAL DATA
HEATER OPERATION**

	5FV8	6FV8A
Heater Voltage.....	4.7	6.3 Volts
Heater Current.....	600	450 Ma
Heater Warm-up Time.....	11	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 ⁽¹⁾	Unshielded
Triode Section		
Grid to Plate.....	1.8	1.8 Pf
Input: g to (h + Tk + IS).....	2.8	2.8 Pf
Output: p to (h + Tk + IS).....	2.0	1.5 Pf
Pentode Section		
Grid No. 1 to Plate (Max.).....	0.010	0.020 Pf
Input: g1 to (h + Pk + g2 + g3 + IS).....	5.0	5.0 Pf

Output: p to (h + Pk + g2 + g3 + IS)	3.0	2.0 Pf
Pentode Plate to Triode Plate (Max.)	0.03	0.15 Pf

RATINGS (Design Maximum Rating System)

	Tri. Sec. Vert. Defl. Osc. ⁽²⁾	Pent. Sec. Class A Amp.
Plate Voltage (Max.)	330	330 Volts
Grid No. 2 Supply Voltage (Max.)	—	330 Volts
Grid No. 2 Voltage	See Rating Chart (Gen. Info. Sec.)	
Positive Grid No. 1 Voltage (Max.)	—	0 Volt
Peak Negative Pulse Grid Voltage (Max.)	250	— Volts
Average Cathode Current (Max.)	20	— Ma
Peak Cathode Current (Max.)	70	— Ma
Plate Dissipation (Max.) ⁽³⁾	2.0	2.3 Watts
Grid No. 2 Dissipation (Max.)	—	0.55 Watt
Grid No. 1 Circuit Resistance		
Fixed Bias (Max.)	—	0.25 Megohm
Self Bias (Max.)	3.0 ⁽³⁾	1.0 Megohm

CHARACTERISTICS AND TYPICAL OPERATION

	Triode Section	Pentode Section
Plate Voltage	125	125 Volts
Grid No. 2 Voltage	—	125 Volts
Grid No. 1 Voltage	-1.0	-1.0 Volt
Transconductance	8000	6500 μ mhos
Plate Current	12.0	12.0 Ma
Grid No. 2 Current	—	4.0 Ma
Plate Resistance (Approx.)	5600	200,000 Ohms
Amplification Factor	45	—
Ecl for Ib = 20 μ a (Approx.)	-7.5	-9 Volts

NOTES:

- (1) Shield No. 315 tied to Pin No. 4.
- (2) 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.
- (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.

6FY5

2FY5, 3FY5

VHF AMPLIFIER**High Mu Triode**

Construction	Miniature T-5½
Base	Button 7 Pin, E7-1
Basing	7FP
Outline	5-2
Maximum Diameter	0.750 In.
Maximum Seated Height	1.875 In.
Maximum Overall Height	2.125 In.

**ELECTRICAL DATA
HEATER OPERATION**

	2FY5	3FY5	6FY5
Heater Voltage	2.4	3.1	6.3 Volts
Heater Current	600	450	200 Ma
Maximum Heater Cathode Voltage			100 Volts

DIRECT INTERELECTRODE CAPACITANCES

	Unshielded	Shielded
Input	4.75	4.75 Pf
Output	3.3	4.3 Pf
Grid to Heater (Max.)	0.28	0.28 Pf
Plate to Cathode	0.25	0.21 Pf
Grid to Cathode	3.2	3.2 Pf
Cathode to Heater	2.5	2.5 Pf
Plate to Grid	0.50	0.48 Pf

RATINGS (Absolute Maximum Rating System)

Plate Voltage (Max.)	200 Volts
Plate Voltage (Zero Plate Current) (Max.)	550 Volts
Plate Dissipation (Max.)	2.2 Watts

