

Plate Resistance.....	80,000	62,500 Ohms
Equivalent Noise and Hum Voltage (Referenced to Grid—Each Unit) Average Value ⁽¹⁾ (RMS) ...	—	1.8 μ Volts

NOTE:

- (1) Measured under the following conditions: $E_f = 6.3$ Vac, center-tap of heater transformer grounded; $E_{bb} = 250$ Vdc; $R_b = 0.1$ Megohm; $R_k = 2700$ Ohms; $C_k = 100$ μ f; $R_g = 0$; $F = 25$ to 10,000 Hz.

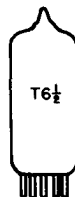
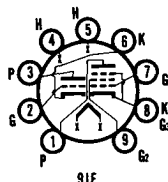
OSCILLATOR (T) MIXER (P)

6EU8

5EU8

Medium Mu Triode and Sharp Cutoff Pentode

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



ELECTRICAL DATA HEATER OPERATION

	5EU8	6EU8
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

Pentode Section

	Shielded	Unshielded
Grid No. 1 to Plate: (g1 to p) (Max.)	0.10	0.02 Pf
Input: g1 to (h + k)	5.0	5.0 Pf
Output: p to (h + k)	3.4	2.6 Pf

Triode Section

Grid to Plate: (g to p)	1.7	1.7 Pf
Input: g to (h + k)	3.2	3.0 Pf
Output: p to (h + k + s)	1.1	1.6 Pf
Cathode to Heater (Each Section): (k to h)	3.60	3.60 Pf

RATINGS (Design Center Rating System)

	Triode	Pentode
Plate Voltage (Max.)	330	330 Volts
Grid No. 2 Supply Voltage (Max.)	—	330 Volts
Positive DC Grid No. 1 Voltage (Max.)	0	0 Volt
Plate Dissipation (Max.)	3.0	3.1 Watts
Grid No. 2 Dissipation (Max.)	—	0.55 Watts
Grid No. 1 Resistance (Max.)	100	100 Kilohms

CHARACTERISTICS AND TYPICAL OPERATION

	Triode	Pentode
Plate Voltage	150	125 Volts
Grid No. 2 Voltage	—	125 Volts
Cathode Resistor	56	— Ohms
Grid No. 1 Voltage	—	-1.0 Volt
Amplification Factor	40.0	—
Transconductance	8500	6400 μ mhos
Plate Resistance (Approx.)	5000	80,000 Ohms
Plate Current	18.0	12.0 Ma
Grid No. 2 Current	—	4.0 Ma
Grid No. 1 Voltage (Approx.) for $I_b = 10$ μ a	-12.0	-9.0 Volts
Cathode Warm-up Time ⁽¹⁾	35	— Seconds

NOTE:

- (1) Cathode Warm-up Time is defined as the time required for transconductance to reach 6500 μ mhos when a tube is operated from a cold start at a plate potential of 100 volts dc, zero grid bias, and at a constant heater current of 560 milliamperes for 5EU8 or a heater potential of 5.5 volts for the 6EU8.

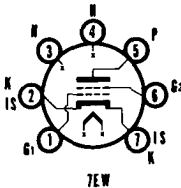
6EV5

2EV5, 3EV5

VHF AMPLIFIER

Sharp Cutoff Tetrode

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



ELECTRICAL DATA

HEATER OPERATION

	2EV5	3EV5	6EV5
Heater Voltage.....	2.4	2.9	6.3 Volts
Heater Current.....	600	450	200 Ma
Heater Warm-up Time.....	11	11	— Seconds
Maximum Heater-Cathode Voltage			
Heater Negative with Respect to Cathode			100 Volts
Total DC and Peak.....			
Heater Positive with Respect to Cathode			
DC.....			50 Volts
Total DC and Peak.....			100 Volts

DIRECT INTERELECTRODE CAPACITANCES (Shielded)⁽¹⁾

Grid No. 1 to Plate (Max.).....	0.035 Pf
Input.....	4.5 Pf
Output.....	2.9 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.)
Plate Dissipation (Max.).....	3.25 Watts
Grid No. 2 Dissipation (Max.).....	0.2 Watt
Positive Grid No. 1 Voltage (Max.).....	0 Volt
Cathode Current (Max.).....	20 Ma
Grid Circuit Resistance (Max.).....	0.5 Megohm

CHARACTERISTICS AND TYPICAL OPERATION

Plate Voltage.....	250 Volts
Grid No. 2 Voltage.....	80 Volts
Grid No. 1 Voltage.....	-1 Volt
Plate Current.....	11.5 Ma
Grid No. 2 Current.....	0.9 Ma
Transconductance.....	8800 μmhos
Plate Resistance.....	0.150 Megohm
E _{c1} for G _m = 100 μmhos (Approx.).....	-4.5 Volts

NOTE:

(1) Shield No. 316 connected to cathode.

6EW6

4EW6, 5EW6, 15EW6

Color Television Type

IF AMPLIFIER

Sharp Cutoff Pentode

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

