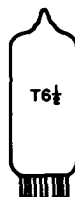
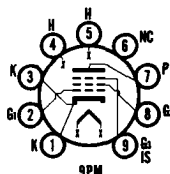


6HM6

3HM6, 4HM6

IF AMPLIFIER**Sharp Cutoff Pentode**

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

**ELECTRICAL DATA****HEATER OPERATION**

	3HM6	4HM6	6HM6
Heater Voltage.....	3.15	4.2	6.3 Volts
Heater Current	600	450	300 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			
Total DC and Peak.....			200 Volts

DIRECT INTERELECTRODE CAPACITANCES

	Shielded	Unshielded
Grid No. 1 to Plate	0.024	0.031 Pf
Input	8.70	8.70 Pf
Output	3.00	2.15 Pf

RATINGS (Design Maximum Rating System)

Plate Voltage (Max.)	250 Volts
Grid No. 2 Voltage (Supply) (Max.)	250 Volts
Grid No. 2 Voltage	See Rating Chart (Gen. Info. Sec.)
Grid No. 1 Voltage (Neg.) (Max.)	50 Volts
Cathode Current (Max.)	25 Ma
Plate Dissipation (Max.)	2.5 Watts
Grid No. 2 Dissipation (Max.)	0.6 Watt
Grid No. 1 Circuit Resistance	
Cathode Bias (Max.)	1 Megohm
Fixed Bias (Max.)	0.25 Megohm

CHARACTERISTICS AND TYPICAL OPERATION

Plate Voltage	125 Volts
Grid No. 3	(Tied to Cathode)
Grid No. 2 Voltage	125 Volts
Grid No. 1 Voltage	-3.0 Volts
Plate Current	13 Ma
Grid No. 2 Current	3.2 Ma
Cathode Resistor	56 Ohms
Plate Resistance	156,000 Ohms
Transconductance	15,000 μ mhos

6HQ5

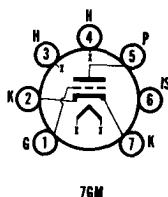
2HQ5, 3HQ5, 4HQ5

VHF AMPLIFIER

Color Television Type

Sharp Cutoff Triode

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



ELECTRICAL DATA
HEATER OPERATION

	2HQ5	3HQ5	4HQ5	6HQ5
Heater Voltage.....	2.4	3.0	4.2	6.3 Volts
Heater Current	600	450	300	200 Ma
Heater Warm-up Time	11	11	11	— Seconds
Maximum Heater-Cathode Voltage				
Heater Negative with Respect to Cathode				
Total DC and Peak.....				100 Volts
Heater Positive with Respect to Cathode				
Total DC and Peak.....				100 Volts

DIRECT INTERELECTRODE CAPACITANCES (Shielded)

Grid to Plate	0.52 Pf
Input: g to (h + k + IS + E.S.)	5.0 Pf
Output: p to (h + k + IS + E.S.)	3.5 Pf
Heater to Cathode	2.5 Pf

RATINGS (Design Maximum Rating System)

Plate Voltage (Max.)	200 Volts
Plate Dissipation (Max.)	2.5 Watts
DC Cathode Current (Max.)	22 Ma
Negative Grid Voltage (Max.)	50 Volts
Grid Circuit Resistance (Self Bias) (Max.)	1.0 Megohm

CHARACTERISTICS AND TYPICAL OPERATION

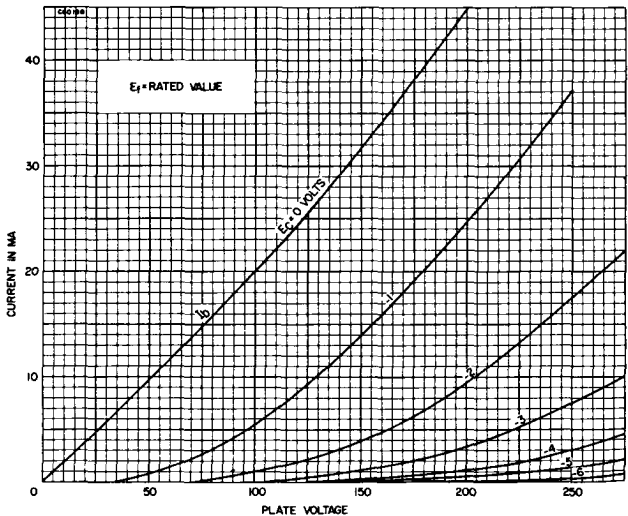
Class A1 Amplifier

Plate Voltage	135 Volts
Grid Voltage	-1.0 Volt
Plate Current	11.5 Ma
Transconductance	15,000 μ mhos
Amplification Factor	78
Plate Resistance (Approx.)	5400 Ohms
Ec for Gm = 150 μ mhos (Approx.)	-4.2 Volts
Ec for Gm = 1500 μ mhos (Approx.)	-2.5 Volts
Input Resistance (200 MHz) ⁽¹⁾	275 Ohms
Input Capacitance (200 MHz) ⁽¹⁾	11.2 Pf
Noise Figure (200 MHz) ⁽²⁾	4.7 db

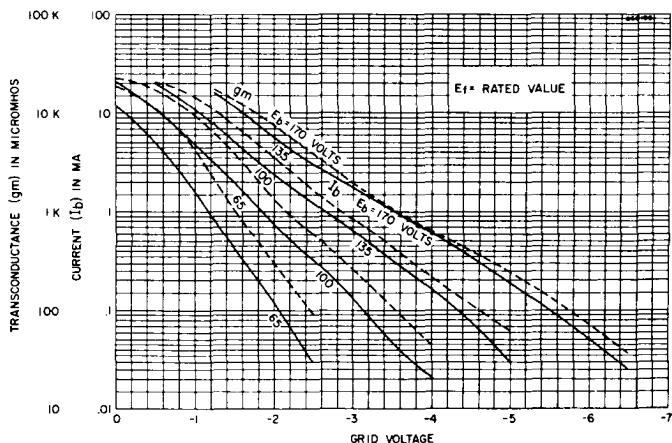
NOTES:

- (1) Measured under grounded plate conditions.
(2) Optimized neutralized triode RF amplifier stage, noise matched.

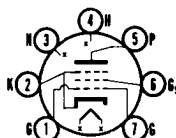
AVERAGE PLATE CHARACTERISTICS



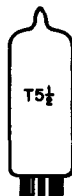
AVERAGE TRANSFER CHARACTERISTICS

**6HR5****VERTICAL DEFLECTION
AMPLIFIER****Beam Power Pentode**

Construction Miniature T-5½
 Base Button 7 Pin, E7-1
 Basing 7BZ
 Outline 5-3
 Maximum Diameter 0.750 In.
 Maximum Seated Height 2.375 In.
 Maximum Overall Height 2.625 In.



7BZ

**ELECTRICAL DATA****HEATER OPERATION**

Heater Voltage.....	6.3 Volts
Heater Current.....	450 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 1 to Plate.....	0.35 Pf
Input.....	8.3 Pf
Output.....	8.2 Pf

RATINGS (Design Maximum Rating System)**Vertical Deflection Amplifier⁽³⁾**

Plate Voltage (Max.).....	260 Volts
Peak Positive Pulse Plate Voltage (Abs. Max.).....	1500 Volts
Grid 2 Voltage (Max.).....	270 Volts
Peak Negative Pulse Grid 1 Voltage (Max.).....	150 Volts
Plate Dissipation (Max.).....	8 Watts
Grid 2 Dissipation (Max.).....	2 Watts
Cathode Current:	
Average (Max.).....	35 Ma
Peak (Max.).....	125 Ma
Grid 1 Circuit Resistance (Max.).....	2.2 Megohms

CHARACTERISTICS AND TYPICAL OPERATION

Plate Voltage.....	50	260 Volts
Grid 2 (Screen) Voltage.....	250	270 Volts
Grid 1 Voltage.....	0 ⁽¹⁾	-19 Volts
Transconductance.....	—	3600 μ mhos
Plate Current.....	105	30 Ma