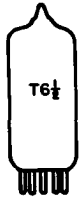
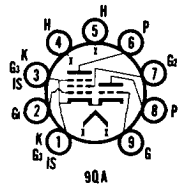


Color Television Type
VHF OSCILLATOR and MIXER

6HB7
5HB7

**Medium Mu Triode and
Sharp Cutoff Pentode**

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



**ELECTRICAL DATA
HEATER OPERATION**

	5HB7	6HB7
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		200 Volts
Total DC and Peak.....		
Heater Positive with Respect to Cathode		100 Volts
DC		200 Volts
Total DC and Peak.....		

DIRECT INTERELECTRODE CAPACITANCES (Shielded)

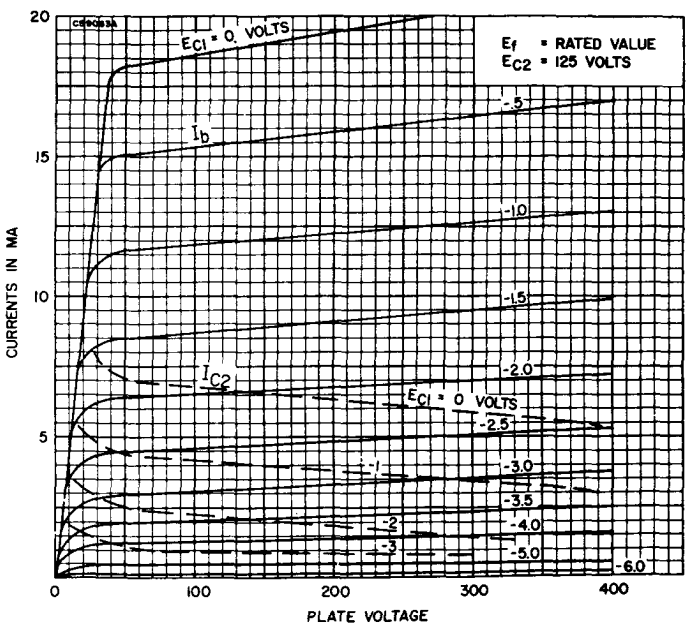
Triode Section

Grid to Plate	1.9 Pf
Input	3.0 Pf
Output	1.9 Pf

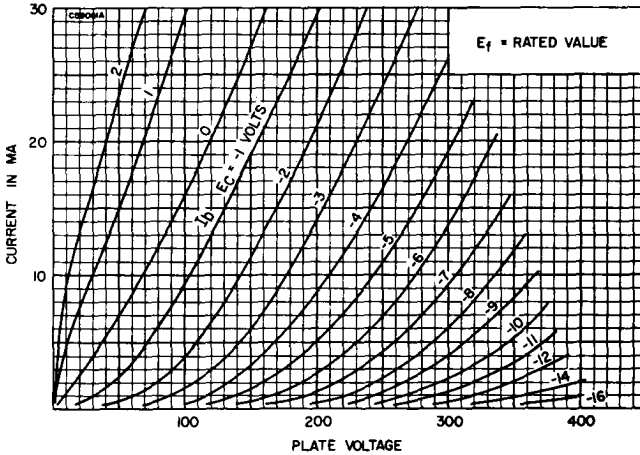
Pentode Section

Grid No. 1 to Plate (Max.).....	0.01 Pf
Input	5.0 Pf
Output	3.4 Pf

**AVERAGE PLATE CHARACTERISTICS
(Pentode Section)**



AVERAGE PLATE CHARACTERISTICS (Triode Section)



RATINGS (Design Maximum Rating System)

	Triode Section	Pentode Section
Plate Voltage (Max.)	330	330 Volts
Grid No. 2 Supply Voltage (Max.)	—	330 Volts
Grid No. 2 Voltage	See Rating Chart (Gen. Info. Sec.)	
Plate Dissipation (Max.)	2.5	3.1 Watts
Grid No. 2 Dissipation (Max.)	—	0.55 Watt
Positive Grid No. 1 Voltage (Max.)	0	0 Volt

CHARACTERISTICS AND TYPICAL OPERATION

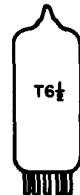
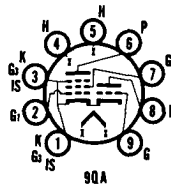
	Triode Section	Pentode Section
Class A1 Amplifier		
Plate Voltage	150	125 Volts
Grid No. 2 Voltage	—	125 Volts
Grid No. 1 Voltage	—	-1.0 Volts
Cathode Bias Resistor	56	— Ohms
Plate Current	18	12 Ma
Grid No. 2 Current	—	4 Ma
Transconductance	8500	6400 μ mhos
Amplification Factor	40	—
Plate Resistance (Approx.)	5000	200,000 Ohms
E_{c1} for $I_b = 10 \mu$ a (Approx.)	-12	-9 Volts

6HD7

VHF OSCILLATOR and MIXER

Medium Mu Triode and Sharp Cutoff Pentode

Construction	Miniature T-6½
Base	Button 9 Pin, E9-1
Basing	— 9QA
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
Heater Warm-up Time	11 Seconds