

Screen Current	—	24	1.75 Ma
Grid No. 1 Voltage (Approx.)			
$I_b = 1.0$ Ma	-66	—	-33 Volts
Triode Amplification Factor ⁽⁴⁾	—	—	4.7

NOTES:

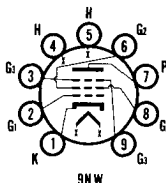
- (1) For operation in a 525 line, 30 frame system as described in "Standards of Good Engineering Practice for Television Broadcast Stations; Federal Communications Commission," the duty cycle of the voltage pulse must not exceed 15% of one horizontal scanning cycle.
- (2) In stages operating with grid-leak bias, an adequate cathode-bias resistor or other suitable means is required to protect the tube in the absence of excitation.
- (3) Applied for short interval (two seconds maximum) so as not to damage tube.
- (4) Triode connection (screen tied to plate) with $E_b = E_{c2} = 130$ volts and $E_{c1} = -20$ volts.

6HB6**15HB6**

Color Television Type

**VERTICAL DEFLECTION
AMPLIFIER****Beam Power Pentode**

Construction	Miniature T-5½
Base	Button 9 Pin, E9-1
Basing	9NW
Outline	6-4
Maximum Diameter	0.875 In.
Maximum Seated Height	2.812 In.
Maximum Overall Height	3.062 In.

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

	15HB6	6HB6
Heater Voltage	14.7	6.3 Volts
Heater Current	300	760 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

Grid No. 1 to Plate	0.18 Pf
Input	13 Pf
Output	8 Pf

RATINGS (Design Maximum Rating System)

Plate Voltage (Max.)	350 Volts
Peak Positive Plate Voltage (Max.)	2500 Volts
Grid No. 2 Voltage (Max.)	300 Volts
Grid No. 1 Voltage (Max.)	-100 Volts
Plate Dissipation (Max.)	10 Watts
Grid No. 2 Dissipation (Max.)	2 Watts
Grid No. 1 Circuit Resistance	
Fixed Bias (Max.)	1.0 Megohm
Cathode Bias (Max.)	2.2 Megohms

CHARACTERISTICS AND TYPICAL OPERATION

Plate Voltage	250	250 Volts
Grid No. 2 Voltage	125	250 Volts
Plate Current	40	40 Ma
Grid No. 2 Current	4.2	6.2 Ma
Cathode Resistor	3.3	100 Ohms
Amplification Factor (G1 to G2)	—	33
Transconductance	24,000	20,000 μ mhos
Plate Resistance	28,000	24,000 Ohms
G1 Voltage for $I_b = 100 \mu$ a	-6.4	-13 Volts

INSTANTANEOUS PLATE KNEE CHARACTERISTICS

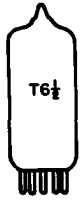
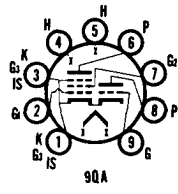
$E_b = 60$ Volts; $E_{c2} = 250$ Volts; $E_{c1} = 0$ Volt;
 $I_b = 150$ Ma; $i_{c2} = 37$ Ma

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)**

