

Coupling

Triode Grid to Diode Plate (Max.).....	0.1 Pf
No. 1 Triode Grid to No. 2 Triode Grid (Max.)	0.01 Pf
No. 1 Triode Plate to No. 2 Triode Plate.....	0.5 Pf

RATINGS (Design Maximum Rating System)**Triode (Each Section)**

Plate Voltage (Max.)	330 Volts
Plate Dissipation (Max.)	2.0 Watts

Diode (Each Section)

Diode Current (Continuous Operation) (Max.)	5.0 Ma
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CHARACTERISTICS AND TYPICAL OPERATION**Triode (Each Section)**

Plate Voltage	125 Volts
Grid Voltage	-1.0 Volt
Amplification Factor	66
Plate Resistance.....	8500 Ohms
Transconductance	7800 μ mhos
Plate Current	7.5 Ma
Grid Voltage for $I_b = 30 \mu$ a	-5 Volts

Diode (Each Section)

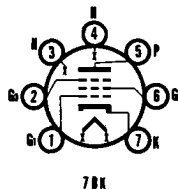
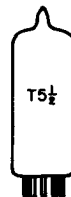
Average Diode Current for $E_b = 5$ Volts	18 Ma
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6AH6

Color Television Type
RF/IF/AMPLIFIER

Sharp Cutoff Pentode

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

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

Heater Voltage.....	6.3 Volts
Heater Current	450 Ma
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 No. 1 to Plate (Max.).....	0.02 Pf
Input: g_1 to $(h + k + g_2 + g_3)$	10 Pf
Output: p to $(h + k + g_2 + g_3)$	3.6 Pf

RATINGS (Design Center Rating System)

Plate Voltage (Max.)	300 Volts
Grid No. 2 Supply Voltage (Max.)	300 Volts
Grid No. 2 Voltage	See Rating Chart (Gen. Info. Sec.)
Plate Dissipation (Max.)	3.2 Watts
Grid No. 2 Dissipation (Max.)	0.4 Watt
Cathode Current (Max.).....	13 Ma

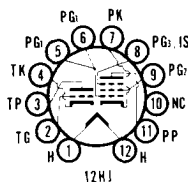
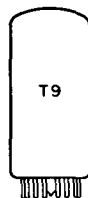
CHARACTERISTICS AND TYPICAL OPERATION

	Triode Conn.	Pentode Conn.
Plate Voltage	150	300 Volts
Grid No. 3 Voltage	Connected to Cathode at Socket	
Grid No. 2 Voltage	—	150 Volts
Cathode Bias Resistor	160	160 Ohms
Plate Current	12.5	10 Ma
Grid No. 2 Current	—	2.5 Ma
Transconductance	11,000	9000 μ mhos
Amplification Factor	40	—
Plate Resistance (Approx.)	3600	500K Ohms
E_{c1} for $I_b = 10 \mu$ a (Approx.).....	-7	-7

Color Television Type

VIDEO AMPLIFIER
AND COLOR BLANKER**6AH9**
9AH9**Medium Mu Triode and
Sharp Cutoff Frame Grid Pentode**

Construction.....Compactron T-9
 Base.....E12-70
 Basing.....12HJ
 Outline.....9-58
 Maximum Diameter.....1.188 In.
 Maximum Seated Height.....2.000 In.
 Maximum Overall Height.....2.375 In.

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

	9AH9	6AH9
Heater Voltage.....	8.8	6.3 Volts
Heater Current.....	600	900 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 (Without Shield)**Pentode Section**

Grid 1 to Plate: (g1 to P).....	0.15 pf
Input: g1 to (h + k + g2 + g3, I.S.).....	15.0 pf
Output: p to (h + k + g2 + g3, I.S.).....	6.0 pf

Triode Section

Grid to Plate: (g to p).....	3.7 pf
Input: g to (h + k).....	2.4 pf
Output: p to (h + k).....	0.4 pf

RATINGS (Design Maximum Rating System)

	Triode Section	Pentode Section
DC Plate Voltage (Max.).....	330	400 Volts
Positive DC Grid 3 Voltage (Max.).....	—	0 Volts
Grid No. 2 Supply Voltage (Max.).....	—	330 Volts
Grid No. 2 Voltage.....	See Rating Chart (Gen. Info. Sec.)	
Positive DC Grid No. 1 Voltage (Max.).....	0	0 Volt
Plate Dissipation (Max.).....	2.0	10.0 Watts
Grid No. 2 Dissipation (Max.).....	—	1.0 Watt
Grid No. 1 Circuit Resistance		
Fixed Bias (Max.).....	1.0	0.1 Megohm
Self Bias (Max.).....	—	0.25 Megohm

Note: Control grid to cathode spacing on the pentode section of this type is of such low order of magnitude as to preclude the use of voltage between these elements of more than 50 volts dc or peak ac in commercial tube checkers and shorts indicating devices, particularly where mechanical excitation of the tube is employed.

CHARACTERISTICS AND TYPICAL OPERATION

	Triode Section	Pentode Section
Plate Supply Voltage.....	250	250 50 Volts
Grid No. 2 Supply Voltage.....	—	150 125 Volts
Grid No. 1 Voltage.....	-9	0 0 Volts
Grid No. 3 Voltage (Referred to Negative end of Rk).....	—	0 0 Volt
Cathode Resistor (Bypassed).....	—	122 0 Ohms
Plate Current.....	8	25 76 Ma
Grid No. 2 Current.....	—	6 32 ⁽¹⁾ Ma
Transconductance (Grid No. 1 to Plate).....	2750	21,000 — μ mhos
Plate Resistance (Approx.).....	7300	55,000 — Ohms
Amplification Factor.....	20	—
Grid No. 1 Voltage, Approx. for Ib = 100 μ a (Rk = 0).....	-18	-7.2 — Volts

NOTE:

(1) Current drawn only for short intervals so as not to damage the tube.