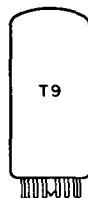
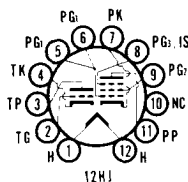


Color Television Type

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

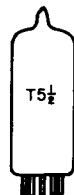
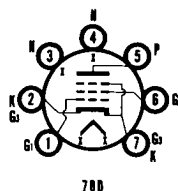
	Triode Section	Pentode Section
Plate Supply Voltage.....	250	250 50 Volts
Grid No. 2 Supply Voltage.....	—	150 125 Volts
Grid No. 1 Voltage.....	-9	0 0 Volts
Grid No. 3 Voltage (Referred to Negative end of Rk).....	—	0 0 Volt
Cathode Resistor (Bypassed).....	—	122 0 Ohms
Plate Current.....	8	25 76 Ma
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.

6AK5/EF95**RF AMPLIFIER****Sharp Cutoff Pentode**

Construction Miniature T-5½
 Base Button 7 Pin
 Basing 7BD
 Outline 5-2
 Maximum Diameter 0.750 In.
 Maximum Seated Height 1.500 In.
 Maximum Overall Height 1.750 In.

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

Heater Voltage	6.3 Volts
Heater Current	175 Ma
Maximum Heater-Cathode Voltage	90 Volts

DIRECT INTERELECTRODE CAPACITANCES

	Shielded (1)	Unshielded
Grid to Plate	0.02	0.03 Pf
Input	4.0	4.0 Pf
Output	2.8	2.1 Pf

RATINGS (Design Center Rating System)

Plate Voltage (Max.)	180 Volts
Plate Dissipation (Max.)	1.7 Watts
Screen Voltage (Max.)	140 Volts
Screen Dissipation (Max.)	0.5 Watt
Screen Supply Voltage (Max.)	180 Volts
Positive Control Grid Voltage (Max.)	0 Volt
Cathode Current (Max.)	18 Ma

CHARACTERISTICS AND TYPICAL OPERATION**Class A1 Amplifier**

Plate Voltage	120	180 Volts
Screen Voltage	120	120 Volts
Cathode Bias Resistor (2)	180	180 Ohms
Plate Current	7.5	7.7 Ma
Screen Current	2.5	2.4 Ma
Transconductance	5000	5100 μ mhos
Plate Resistance (Approx.)	0.30	0.50 Megohm

NOTES:

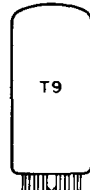
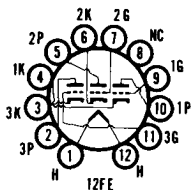
- (1) Shield No. 316 connected to cathode.
 (2) Fixed bias operation is not recommended.

6AK10**9AK10**

Color Television Type

COLOR DIFFERENCE AMPLIFIER**Triple Triode**

Construction Compactron T-9
 Base E12-70
 Basing 12FE
 Outline 9-59
 Maximum Diameter 1.188 In.
 Maximum Seated Height 2.250 In.
 Maximum Overall Height 2.625 In.

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

	9AK10	6AK10
Heater Voltage	9.5	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