

6AC9

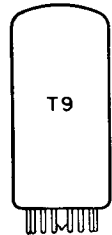
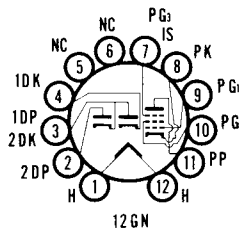
8AC9

Color Television Type

**IF AMPLIFIER
PHASE DETECTOR**

**General Purpose Pentode
and Double Diode**

Construction..... Compactron T-9
 Base Button 12 Pin, E12-70
 Basing 12GN
 Outline 9-57
 Maximum Diameter 1.188 In.
 Maximum Seated Height 1.750 In.
 Maximum Overall Height 2.125 In.



**ELECTRICAL DATA
HEATER OPERATION**

	8AC9 Series	6AC9 Series	6AC9 Parallel
Heater Voltage.....	8.4	6.3	6.3 Volts
Heater Current	450	600	600 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			
DC			100 Volts
Total DC and Peak.....			200 Volts

DIRECT INTERELECTRODE CAPACITANCES (Unshielded)

Pentode Section		
Grid No. 1 to Plate (Max.).....		0.046 Pf
Input: Pg1 to (h, Pk, Pg2, Pg3, and IS)		8.0 Pf
Output: Pp to (h, Pk, Pg2, Pg3, and IS)		2.2 Pf
Diode Section		
No. 2 Plate to No. 1 Plate and No. 2 Cathode.....		1.8 Pf
No. 1 Cathode to No. 1 Plate and No. 2 Cathode		1.6 Pf
No. 2 Plate to Heater, Pentode Grid No. 3 and Internal Shield.....		0.52 Pf
No. 1 Cathode to Heater, Pentode Grid No. 3 and Internal Shield.....		3.2 Pf
Coupling		
No. 2 Diode Plate to Pentode Plate		0.050 Pf
No. 2 Diode Plate to Pentode Grid No. 1		0.002 Pf
No. 1 Diode Plate and No. 2 Diode Cathode to Pentode Plate		0.048 Pf
No. 1 Diode Plate and No. 2 Diode Cathode to Pentode Grid No. 1		0.002 Pf
No. 1 Diode Cathode to Pentode Plate		0.004 Pf

RATINGS (Design Maximum Rating System)

Pentode Section		
Plate Voltage (Max.)		330 Volts
Grid No. 2 Supply Voltage (Max.)		330 Volts
Grid No. 2 Voltage	See Rating Chart (Gen. Info. Sec.)	

Positive Grid No. 1 Voltage (Max.)	0 Volt
Plate Dissipation (Max.)	2.5 Watts
Grid No. 2 Dissipation (Max.)	0.55 Watt
Grid No. 1 Circuit Resistance	
Self Bias (Max.)	1.0 Megohm
Fixed Bias (Max.)	0.25 Megohm

Diode Section (Each Diode)

Continuous Diode Current (Max.).....	5.0 Ma
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CHARACTERISTICS AND TYPICAL OPERATION

Pentode Section

Plate Voltage	125 Volts
Grid No. 2 Voltage	125 Volts
Grid No. 1 Voltage	-1 Volt
Plate Current	12 Ma
Grid No. 2 Current	4.5 Ma
Transconductance	10,000 μ mhos
Plate Resistance (Approx.)	150,000 Ohms
Grid No. 1 Voltage for $I_b = 20 \mu$ a (Approx.)	-7 Volts

Diode Section (Each Diode)

Tube Voltage Drop for $I_b = 50$ Ma	10 Volts
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AVERAGE PLATE CHARACTERISTICS

