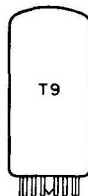
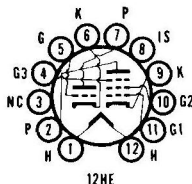


6AL9**8AL9***Color Television Type***GENERAL PURPOSE AMPLIFIER (T)
VIDEO AMPLIFIER (P)****High Mu Triode and
Sharp Cutoff Pentode**

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

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

	6AL9	8AL9
Heater Voltage.....	6.3	8.6 Volts
Heater Current	820	600 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 (Unshielded)**Triode Section**

Grid to Plate	2.8 pf
Input: g to (h + Tk + PK, g3, I.S.)	3.6 pf
Output: p to (h + Tk + PK, g3, I.S.)	2.2 pf

Pentode Section

Grid No. 1 to Plate (Max.)	0.16 pf
Input: g1 to (h + PK, g3, I.S. + g2)	17 pf
Output: p to (h + PK, g3, I.S. + g2)	6.4 pf

RATINGS (Design Maximum Values)

	Triode Section	Pentode Section
Plate Voltage	330	330 Volts
Grid No. 2 Supply Voltage (Max.)	—	200 Volts
Positive Grid No. 1 Voltage (Max.)	0	0 Volt
Grid No. 2 Dissipation (Max.)	—	1.5 Watts
Grid No. 1 Circuit Resistance		
Fixed Bias (Max.)	0.5	0.1 Megohm
Cathode Bias (Max.)	1.0	0.25 Megohm

CHARACTERISTICS AND TYPICAL OPERATION

	Triode Section	Pentode Section	
Plate Voltage	200	55	250 Volts
Grid No. 1 Voltage	—	0	— Volt
Grid No. 2 Voltage	—	125	150 Volts
Cathode Bias Resistor	270	—	56 Ohms
Plate Current	7.6	56	28 Ma
Grid No. 2 Current	—	21	5.6 Ma
Transconductance	6300	—	30,000 μ mhos
Amplification Factor	59	—	—
Plate Resistance (Approx.)	9200	—	40,000 Ohms
E_{c1} for $I_b = 100 \mu a$ (Approx.)	-63	—	-5.4 Volts