

Color Television Type

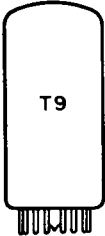
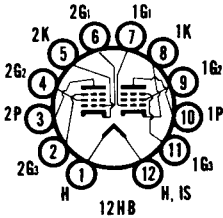
COLOR DEMODULATOR

6BV11

12BV11

Twin Dual Control Sharp Cutoff Pentode

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



ELECTRICAL DATA
HEATER OPERATION

	12BV11	6BV11
Heater Voltage.....	12.6	6.3 Volts
Heater Current	450	900 Ma
Heater Warm-up Time	11	— Seconds

NOTE: To obtain the unique characteristics of this tube, an internal shield is tied to the heater Pin No. 12. To assure proper operation Pin No. 12 must be tied directly to ground.

DIRECT INTERELECTRODE CAPACITANCES (Unshielded) (Each Section)

Grid No. 1 to Plate	0.10 Pf
Grid No. 3 to Plate	3.2 Pf
Input: g1 to (h + k + g2 + g3 + IS)	7.0 Pf
Grid No. 3 to All.....	8.5 Pf
Grid No. 1 to Grid No. 3	0.08 Pf

RATINGS (Design Maximum Rating System) (Each Section)

DC Plate Voltage (Max.)	300 Volts
Positive Grid No. 3 Voltage (DC and Peak) (Max.)	25 Volts
Negative Grid No. 3 Voltage (DC and Peak) (Max.).....	100 Volts
DC Grid No. 2 Supply Voltage (Max.).....	300 Volts
DC Grid No. 2 Voltage (Max.)	See Rating Chart (Gen. Info. Sec.)
Positive Grid No. 1 Voltage (Max.)	0 Volt
Negative Grid No. 1 Voltage (Max.)	50 Volts
Plate Dissipation (Max.)	1.7 Watts
Grid No. 3 Input (Max.)	0.1 Watt
Grid No. 2 Input (Ec2 up to 150 V) (Max.)	1.0 Watt
Grid No. 2 Input (Ec2 Between 150 V to 300 V)	See Rating Chart (Gen. Info. Sec.)
Grid No. 3 Circuit Resistance (Max.)	0.68 Megohm
Grid No. 1 Circuit Resistance Fixed Bias (Max.)	0.22 Megohm
Self Bias (Max.)	0.47 Megohm

CHARACTERISTICS AND TYPICAL OPERATION (Each Section)

Plate Supply Voltage.....	150 Volts
Grid No. 3 Voltage	0 Volt
Grid No. 2 Supply Voltage.....	100 Volts
Cathode Resistor	180 Ohms
Plate Current	3.1 Ma
Grid No. 2 Current	2.4 Ma
Grid No. 1 Transconductance	3200 μ mhos
Grid No. 3 Transconductance	390 μ mhos
Plate Resistance (Approx.)	0.17 Megohm
Ec1 for Ib = 75 μ a (Approx.).....	-3.5 Volts
Ec3 for Ib = 85 μ a (Approx.).....	-5.5 Volts
Amplification Factor (g3-P)	67

AVERAGE PLATE CHARACTERISTICS
(Each Section)

