Color Television Type

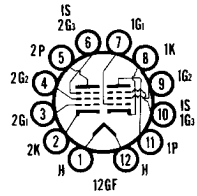
IF AMPLIFIER

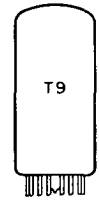
6BN11

8BN11

Double Sharp Cutoff Pentode

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





ELECTRICAL DATA

HEATER OPERATION

	8BN11	6BN11
Heater Voltage	8.4	6.3 Volts
Heater Current	600	800 Ma
Heater Warm-up Time	11	— Sec.
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 (Shielded)(1)

Section 1

Grid No. 1 to Plate	0.04 Pf
Input: 1g1 to (1k + 1g2 + 2g3 + h + IS)	12 Pf
Output: 1p to (1k + 1g2 + 2g3 + h + IS)	2.8 Pf

Section 2

Grid No. 1 to Plate	0.03 Pf
Input: 2g1 to (2k + 2g2 + 2g3 + 1g3 + h + IS)	12 Pf
Output: 2p to (2k + 2g2 + 2g3 + 1g3 + h + IS)	2.8 Pf
Plate to Plate: (1p to 2p) (Max.)	0.01 Pf
Grid No. 1, Section 1 to Plate, Section 2 (Max.)	0.02 Pf
Grid No. 1, Section 2 to Plate, Section 1: (2g1 to 1p) (Max.)	0.003 Pf
Cathode, Section 1 to Cathode, Section 2 (Max.)(2)	0.02 Pf

RATINGS (Design Maximum Rating System) (Each Section)

Plate Voltage (Max.)	330 Volts
Screen Supply Voltage (Max.)	330 Volts
Screen Voltage	See Rating Chart (Gen. Info. Sec.)
Positive DC Grid No. 1 Voltage (Max.)	0 Volt
Plate Dissipation (Max.)	3.1 Watts
Screen Dissipation (Max.)	0.65 Watt
Grid No. 1 Circuit Resistance (Cathode Bias)	0.25 Megohm

CHARACTERISTICS AND TYPICAL OPERATION (Each Section)

Plate Voltage	125 Volts
Suppressor	Connected to Cathode at Socket
Screen Voltage	125 Volts
Cathode-Bias Resistor	56 Ohms
Plate Resistance (Approx.)	0.2 Megohm
Transconductance	13,000 μmhos
Plate Current	11 Ma
Screen Current	3.8 Ma
Grid No. 1 Voltage (Approx.)	
Ib = 20 μa	-3 Volts

NOTES:

(1) With external shield (EIA 309) connected to cathode of section under test.
(2) With external shield (EIA 309) connected to ground.