

RATINGS (Design Maximum Rating System)**Section 1**

Plate Voltage	160 Volts
Suppressor Voltage	0 Volt
Screen Voltage	160 Volts
Positive DC Grid No. 1 Voltage	0 Volt
Plate Dissipation	2.2 Watts
Screen Dissipation	0.55 Watt
Grid No. 1 Circuit Resistance	
Cathode Bias	1.0 Megohm

Section 2

Plate Voltage	160 Volts
Suppressor Voltage	0 Volt
Screen Voltage	160 Volts
Positive DC Grid No. 1 Voltage	0 Volt
Plate Dissipation	2.2 Watts
Screen Dissipation	0.55 Watt
Grid No. 1 Circuit Resistance	
Cathode Bias	0.25 Megohm

CHARACTERISTICS AND TYPICAL OPERATION**Section 1**

Plate Voltage	125 Volts
Suppressor	Connected to Cathode at Socket
Screen Voltage	125 Volts
Cathode-Bias Resistor	56 Ohms
Plate Resistance (Approx.)	220,000 Ohms
Transconductance	8800 μ mhos
Plate Current	14 Ma
Screen Current	3.6 Ma
Grid No. 1 Voltage (Approx.) $G_m = 50 \mu$ mhos	-16.5 Volts

Section 2

Plate Voltage	125 Volts
Suppressor	Connected to Cathode at Socket
Screen Voltage	125 Volts
Cathode-Bias Resistor	120 Ohms
Plate Resistance (Approx.)	300,000 Ohms
Transconductance	8500 μ mhos
Plate Current	9.0 Ma
Screen Current	2.5 Ma
Grid No. 1 Voltage (Approx.) $I_b = 20 \mu$ a	-5.5 Volts

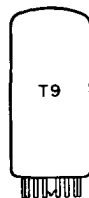
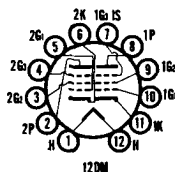
NOTE:

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

Color Television Type

IF AMPLIFIER**8BQ11****11BQ11****Remote Cutoff Pentode and Sharp Cutoff Pentode**

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

**ELECTRICAL DATA**
HEATER OPERATION

Heater Voltage	11BQ11 11.2	8BQ11 8.4 Volts
Heater Current	450	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 (Shielded)⁽¹⁾**Section 1**

Grid No. 1 to Plate	0.022 Pf
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Input: 1g1 to (1k + 1g2 + 1g3 + h + IS).....	10 Pf
Output: 1p to (1k + 1g2 + 1g3 + h + IS)	2.8 Pf
Section 2	
Grid No. 1 to Plate	0.024 Pf
Input: 2g1 to (2k + 2g2 + 2g3 + 1g3 + h + IS)	11 Pf
Output: 2p to (2k + 2g2 + 2g3 + 1g3 + h + IS)	2.8 Pf
Coupling	
Plate to Plate (Max.)	0.015 Pf
Grid No. 1 (Section 1) to Plate (Section 2) (Max.)	0.002 Pf
Grid No. 1 (Section 2) to Plate (Section 1) (Max.)	0.008 Pf
Grid No. 1 (Section 1) to Grid No. 1 (Section 2) (Max.)	0.002 Pf

RATINGS (Design Maximum Rating System)**Section 1**

Plate Voltage	330 Volts
Suppressor Voltage	0 Volt
Screen-Supply Voltage	330 Volts
Screen Voltage	See Rating Chart (Gen. Info. Sec.)
Positive DC Grid No. 1 Voltage	0 Volt
Plate Dissipation	3.1 Watts
Screen Dissipation	0.65 Watts
Grid No. 1 Circuit Resistance	
Cathode Bias	1.0 Megohm

Section 2

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

CHARACTERISTICS AND TYPICAL OPERATION**Section 1**

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	10,500 μ mhos
Plate Current	11 Ma
Screen Current	3.5 Ma
Grid No. 1 Voltage (Approx.)	
Gm = 50 μ mhos	-15 Volts

Section 2

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 μ mhos
Plate Current	11 Ma
Screen Current	3.8 Ma
Grid No. 1 Voltage (Approx.)	
Ib = 20 μ a	-3 Volts

NOTE:

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

8BU11

Color Television Type

GENERAL PURPOSE AMPLIFIER**Double Medium Mu Triode and Sharp Cutoff Pentode**

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

