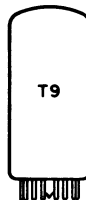
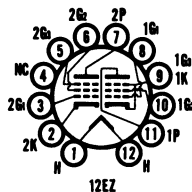


**6BY11****AUDIO OUTPUT AMPLIFIER  
FM DETECTOR****Power Pentode and  
Dual-Control Pentode**

Construction.....	Compactron T-9
Base .....	E12-70
Basing .....	12EZ
Outline .....	9-59
Maximum Diameter .....	1.188 In.
Maximum Seated Height .....	2.000 In.
Maximum Overall Height .....	2.250 In.

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

Heater Voltage.....	6.3 Volts
Heater Current .....	1200 Ma
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****Section No. 1**

Grid to Plate .....	0.28 pf
Input: g to (h + 1k + 1g2 + 1g3 + IS) .....	12.0 pf
Output: p to (h + 1k + 1g2 + 1g3 + IS) .....	7.0 pf

**Section No. 2**

Grid No. 1 to Plate (Max.).....	0.40 pf
Grid No. 3 to Plate .....	3.2 pf
Grid No. 1 to (h + 2k + 2g2 + 2g3 + IS) .....	7.0 pf
Grid No. 3 to (h + 2k + 2g2 + 2g3 + 2p + IS).....	8.0 pf
Grid No. 1 to Grid No. 3 .....	0.15 pf
Plate No. 1 to Plate No. 2 .....	0.18 pf

**RATINGS (Design Maximum Rating System)****Section No. 1**

Plate Voltage .....	200 Volts
Screen Voltage.....	150 Volts
Plate Dissipation .....	10 Watts
Screen Dissipation.....	1.8 Watts
DC Cathode Current .....	65 Ma
Grid No. 1 Circuit Resistance	
Cathode Bias .....	1.0 Megohms

**Section No. 2**

Plate Voltage .....	300 Volts
Suppressor Voltage .....	25 Volts
Screen Supply Voltage.....	300 Volts
Positive DC Grid Voltage .....	0 Volt
Plate Dissipation .....	1.7 Watts
Screen Dissipation.....	1.0 Watts

**AVERAGE CHARACTERISTICS****Section No. 1, Class A1 Amplifier**

Plate Voltage .....	170 Volts
Screen Voltage.....	140 Volts
Grid No. 1 Voltage .....	-3.0 Volts
Peak AF Grid Voltage .....	15 Volts
Plate Resistance (Approx.) .....	33,000 Ohms
Transconductance .....	4900 $\mu$ mhos
Zero Signal Plate Current .....	74 Ma
Maximum Signal Plate Current .....	76 Ma
Zero Signal Screen Current .....	3.9 Ma
Maximum Signal Screen Current .....	8.3 Ma
Load Resistance .....	2500 Ohms
Total Harmonic Distortion (Approx.) .....	10 Percent
Maximum Signal Power Output .....	4.0 Watts

**Section No. 2**

Plate Voltage .....	150 Volts
Suppressor Voltage .....	0 Volt
Screen Voltage.....	100 Volts
Cathode Resistor .....	180 Ohms
Plate Resistance (Approx.) .....	110,000 Ohms
Transconductance (G1) .....	2500 $\mu$ mhos
Transconductance (G3) .....	850 $\mu$ mhos
Plate Current .....	1.3 Ma
Screen Current .....	2.1 Ma
Ec1 for Ib = 20 $\mu$ a .....	-4.0 Volts
Ec3 for Ib = 50 $\mu$ a .....	-3.0 Volts