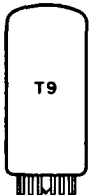
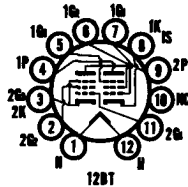


**FM LIMITER/DISCRIMINATOR
AUDIO POWER AMPLIFIER**

17AB10

Double Dissimilar Pentode

Construction.....Compactron T-9
Base Button 12 Pin, E12-70
Basing 12BT
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.....	16.8 Volts
Heater Current.....	450 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)

Gated-Beam Discriminator Section No. 1

Grid No. 1 to Grid No. 3.....	0.01 Pf
Grid No. 1 to All.....	4.4 Pf
Grid No. 3 to All.....	3.2 Pf

Audio Amplifier Section No. 2

Grid No. 1 to Plate.....	0.22 Pf
Input.....	12 Pf
Output.....	7.5 Pf

RATINGS (Design Maximum Rating System)

Gated-Beam Discriminator Section No. 1

Plate-Supply Voltage.....	330 Volts
Accelerator-Supply Voltage.....	330 Volts
Peak Positive Grid No. 1 Voltage.....	60 Volts
DC Cathode Current.....	13 Ma

Audio Amplifier No. 2

Plate Voltage.....	165 Volts
Screen Voltage.....	150 Volts
Plate Dissipation.....	6.5 Watts
Screen Dissipation.....	1.8 Watts
DC Cathode Current.....	65 Ma

Grid No. 1 Circuit Resistance

Fixed Bias.....	0.25 Megohm
Cathode Bias.....	0.5 Megohm

CHARACTERISTICS AND TYPICAL OPERATION

Gated-Beam Discriminator Section No. 1

Plate Voltage.....	135	135	135 Volts
Accelerator Voltage.....	75	—	— Volts
Accelerator-Supply Voltage.....	—	280	280 Volts
Accelerator Resistor.....	—	33,000	33,000 Ohms
Grid No. 1 Voltage.....	0	0	0 Volt
Grid No. 3 Voltage.....	+4.0	+4.0	0 Volts
Plate Current.....	—	5.0	— Ma
Accelerator Current.....	4.5	—	— Ma
Grid No. 1 Transconductance.....	—	—	360 μ mhos
Grid No. 3 Transconductance.....	—	—	700 μ mhos
Grid No. 1 Voltage (Approx.) Ib = 20 μ a.....	—	—	-4 Volts
Grid No. 3 Voltage (Approx.) Ib = 20 μ a.....	—	—	-4 Volts

Audio Amplifier Section No. 2

Plate Voltage.....	145 Volts
Screen Voltage.....	110 Volts
Grid No. 1 Voltage.....	-6.0 Volts
Peak AF Grid No. 1 Voltage.....	6.0 Volts
Plate Resistance (Approx.).....	30,000 Ohms
Transconductance.....	8600 μ mhos
Zero-Signal Plate Current.....	36 Ma
Maximum Signal Plate Current.....	40 Ma