POWER AMPLIFIER PENTODE

Heater Cathode Unipotential Cathode
Heater Arrangement Series* Parallel**
Voltage 12.6 6.3 a-c or d-c volts
Current 0.3 0.6 amp.
Maximum Overall Length 4-3/16"
Maximum Seated Height 3-9/16"
Maximum Diameter 1-9/16"
Bulb ST-12
Base Small 7-Pin

Pin 1 - Heater
Pin 2 - Plate
Pin 3 - Screen
Pin 4 - Grid
Mounting Position BOTTOM VIEW (7F) Any

Plate Voltage 180 max. volts
Screen Voltage 180 max. volts
Plate Dissipation 8.25 max. watts
Screen Dissipation 2.5 max. watts

Typical Operation and Characteristics - Class A, Amplifier:
Plate Voltage 100 180 volts
Screen Voltage 100 180 volts
Grid Voltage -15 -25 volts
Peak A-F Grid Volt. 15 25 volts
Zero-Sig. Plate Cur. 17 45 ma.
Max.-Sig. Plate Cur. 19 48 ma.
Zero-Sig. Screen Cur. 3 8 ma.
Max.-Sig. Screen Cur. 6.5 14 ma.
Plate Resistance 50000 35000 approx. ohms
Transconductance 1700 2400 μmhos
Load Resistance 4500 3300 ohms
Total Harm. Dist. 12 11 %
Second Harm. Dist. 8.5 6.5 %
Third Harm. Dist. 8 8 %
Max.-Sig. Power Output 0.8 3.4 watts

* In circuits where the cathode is not directly connected to the heater, the potential difference between heater and cathode should be kept as low as possible.
** Heater voltage applied across the two sections in series between pins 1 and 7.
*** Heater voltage applied across the two sections in parallel between pin 6 and pins 1 and 7 connected together.

RCA RADIOTRANS DIVISION
RCA MANUFACTURING COMPANY, INC.

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