



## POWER AMPLIFIER PENTODE

Heater Cathode Unipotential Cathode Heater Arrangement Series Parallel*  Voltage 12.6 6.3 a-c or d-c volument 0.3 0.6 amp. Maximum Overall Length 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 7-Heater
Voltage 12.6 6.3 a-c or d-c voltage 0.3 0.6 amp Maximum Overall Length 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 6-Heater Midtage
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 5-Cathode         Pin 2-Plate       Pin 6-Heater Midtan
Maximum Overall Length Maximum Seated Height  Maximum Diameter  Bulb  Base  Pin 1-Heater  Pin 2-Plate  Maximum Overall Length  3-9/16"  3-9/16"  3-9/16"  5T-12  Small 7-Pin  Pin 5-Cathode  Pin 6-Heater Midtan
Maximum Seated Height Maximum Diameter Bulb Base Pin 1-Heater Pin 2-Plate  A-9/16" 1-9/16" ST-12 Small 7-Pin Pin 5-Cathode Pin 6-Heater Midtan
Maximum Diameter  Bulb  ST-12  Base  Pin 1-Heater  Pin 2-Plate  1-9/16"  ST-12  Pin 5-Cathode  Pin 6-Heater Midtan
Bulb  Base  Pin 1-Heater  Pin 2-Plate  ST-12  Small 7-Pin  Pin 5-Cathode  Pin 6-Heater Midtan
Base Pin 1-Heater Pin 2-Plate  Small 7-Pin Pin 5-Cathode Pin 6-Heater Midtan
Pin 1 - Heater Pin 5 - Cathode Pin 2 - Plate Pin 6 - Heater Midta
Pin 2-Plate Pin 6-Heater Midtag
Pin 2-Plate Pin 6-Heater Midtag
Pin 3 - Screen
Pin 4-Grid
Maria ta Distata
Mounting Position BOTTOM VIEW (7F) Any
AMPLIFIER
Plate Voltage 180 max. volt
Screen Voltage 180 max. volt
Plate Dissipation 8.25 max. watt:
Screen Dissipation 2.5 max. watt:
Typical Operation and Characteristics - Class A, Amplifier:
Plate Voltage 100 180 volts
Screen Voltage 100 180 volts
Grid Voltage 0 -15 -25 volt
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 µmho:
Load Resistance 4500 3300 ohms
Total Harm. Dist. 12 11 %
Second Harm. Dist. 8.5 6.5 %
Third Harm. Dist. 8.5 %
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.
— Meater voltage applied across the two sections in series between pins #1 and #7.
Heater voltage applied across the two sections in parallel between
The type of coupling used should not introduce too much resistance in the grid circuit. Transformer— or impedance—coupling devices are

Heater voltage applied across the two sections in parallel between pin \$6\$ and pins \$1\$ and \$7\$ connected together.

The type of coupling used should not introduce too much resistance in the grid circuit. Transformer— or impedance—coupling devices are recommended. When the grid circuit has a resistance not higher than 0.1 megohm, fixed bias may be used; for higher values, cathode bias is required. With cathode bias, the grid circuit may have a resistance not to exceed 0.5 megohm.