



DESCRIPTION

The IAE4 is a filament type sharp cut-off pentode of miniature construction designed for RF applications in portable equipment.

MECHANICAL DATA

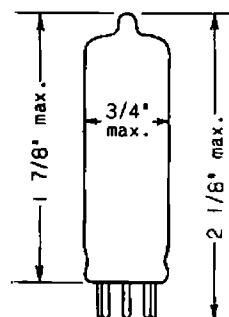
ENVELOPE: T-5 1/2 Glass

BASE: Miniature Button 7-Pin

TERMINAL CONNECTIONS: (JEDEC Designation 6AR)

- | | |
|--|----------------------------------|
| Pin 1 Negative Filament
and Grid #3 | Pin 4 No Connection |
| Pin 2 Plate | Pin 5 Negative Filament, Grid #3 |
| Pin 3 Grid #2 | Pin 6 Grid #1 |
| | Pin 7 Positive Filament |

MOUNTING POSITION: Any



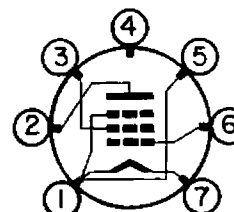
ELECTRICAL DATA

DIRECT INTERELECTRODE CAPACITANCES: (pF) *

- | | |
|------------------|------------|
| Grid #1 to Plate | 0.008 max. |
| Input | 3.6 |
| Output | 4.4 |

DESIGN CENTER MAXIMUM RATINGS:

- | | |
|-----------------------|------------------|
| Filament Voltage (dc) | 1.25 ± 15% volts |
| Plate Voltage | 90 volts |
| Grid #2 Voltage | 90 volts |
| Grid #1 Voltage | |
| Negative-Bias Value | 50 volts |
| Positive-Bias Value | 0 volts |
| Total Cathode Current | 11 ma. |



BOTTOM VIEW

CHARACTERISTICS AND TYPICAL OPERATION - CLASS A1 AMPLIFIER:

- | | |
|---|------------------|
| Filament Voltage (dc) | 1.25 ± 15% volts |
| Filament Current | 0.1 amps. |
| Plate Voltage | 90 volts |
| Grid #2 Voltage | 90 volts |
| Grid #1 Voltage | 0 volts |
| Plate Resistance | 0.5 meg. |
| Transconductance | 1550 umhos. |
| Plate Current | 3.5 ma. |
| Grid #2 Current | 1.2 ma. |
| Grid #1 Voltage (approx. for $I_b = 50\mu a.$) | -5 volts. |

* With external Shield #313.