



PENTODE

TYPE IAE4

DESCRIPTION

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

MECHANICAL DATA

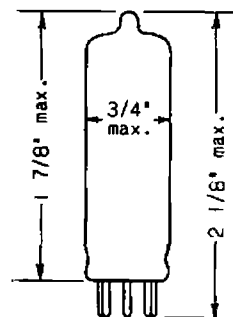
ENVELOPE: T-5 1/2 Glass

BASE: Miniature Button 7-Pin

TERMINAL CONNECTIONS: (JEDEC Designation 6AR)

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

MOUNTING POSITION: Any



ELECTRICAL DATA

DIRECT INTERELECTRODE CAPACITANCES: (pufds) *

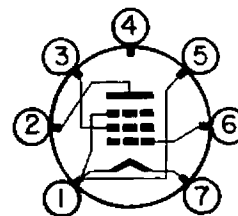
Grid #1 to Plate	0.008 max.
Input	3.6
Output	4.4

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.

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.



BOTTOM VIEW

* With external Shield #313.