



TECHNICAL INFORMATION

PENTODE

TYPE

1AE4

Excellence in Electronics

The 1AE4 is a filament type sharp cut-off pentode of miniature construction designed for RF applications in portable equipment.

MECHANICAL DATA

ENVELOPE: T-5½ GlassBASE: Miniature Button 7-PinTERMINAL CONNECTIONS:Pin 1 Negative Filament
and Grid #3

Pin 2 Plate

Pin 3 Grid #2

Pin 4 No Connection

Pin 5 Negative Filament, Grid #3

Pin 6 Grid #1

Pin 7 Positive Filament

MOUNTING POSITION: Any

ELECTRICAL DATA

DIRECT INTERELECTRODE CAPACITANCES: (μfd_s) *

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

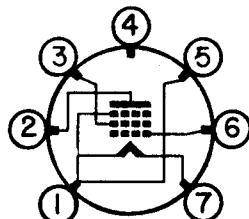
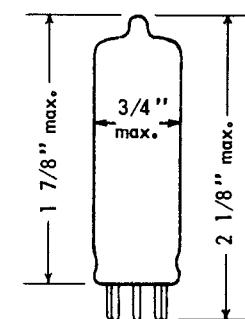
DESIGN CENTER MAXIMUM RATINGS:

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

CHARACTERISTICS AND TYPICAL OPERATION-CLASS A1 AMPLIFIER:

Filament Voltage (dc)	1.25 \pm 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 μmhos
Plate Current	3.5 ma.
Grid #2 Current	1.2 ma.
Grid #1 Voltage (approx. for $I_b = 50 \mu\text{a}$)	-5 volts

* With external Shield #316.



BOTTOM VIEW

6AR

Tentative Data

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