



TYPE

1AD4

Excellence in Electronics

The 1AD4 is a filament type, fully-shielded sharp cutoff pentode of subminiature construction designed for RF and AF applications in portable equipment. The flexible terminal leads may be soldered or welded directly to the terminals of circuit components without the use of sockets. Standard inline subminiature sockets may be used by cutting the leads to a suitable length.

MECHANICAL DATA**ENVELOPE:** T-2X3 Glass ♦**BASE:** None (0.016" tinned flexible leads. Length: 1.5" min.
Spacing: 0.048" center-to-center)**TERMINAL CONNECTIONS:** (Red dot is adjacent to lead 1)

Lead 1 Plate

Lead 2 Grid #2

Lead 3 Negative Filament, Grid #3 Shield ▲

Lead 4 Grid #1

Lead 5 Positive Filament, Grid #3▲

MOUNTING POSITION: Any**ELECTRICAL DATA****DIRECT INTERELECTRODE CAPACITANCES:** (pfs.)

Grid #1 to Plate

0.01 max.

Input

4.0

Output

4.0

RATINGS-ABSOLUTE MAXIMUM VALUES: ■

Filament Voltage (dc)

1.25 ± 20% volts

Plate Voltage

100 volts

Grid #2 Voltage

100 volts

Plate Dissipation

0.3 watt

Grid #2 Dissipation

0.1 watt

Total Cathode Current

5.5 ma.

CHARACTERISTICS AND TYPICAL OPERATION-CLASS A1 AMPLIFIER:

Filament Voltage (dc)

1.25 volts

Filament Current

0.10 amps.

Plate Voltage

45 volts

Grid #2 Voltage

45 volts

Grid #1 Voltage ●

0 volts

Plate Resistance (approx.)

0.5 meg.

Transconductance

2000 μmhos

Plate Current

3.0 ma.

Grid #2 Current

0.9 ma.

Grid #1 Voltage (approx.) for Gm = 10 μmhos

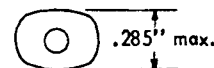
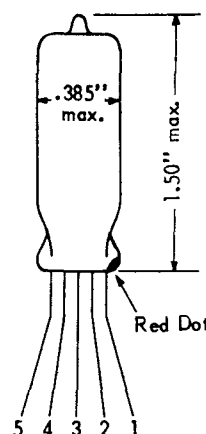
-3.5 volts

♦ Bulb is entirely coated with a metallic shield connected to lead 3.

▲ Grid #3 is composed of two deflector plates, one being connected to lead 3 and the other to lead 5.

■ MIL-E-18 paragraphs 3.5.1.1 and 3.5.1.2, permitting maximum plate and screen voltage ratings to be exceeded, shall not apply.

● Grid #1 resistor = 2 megohms.



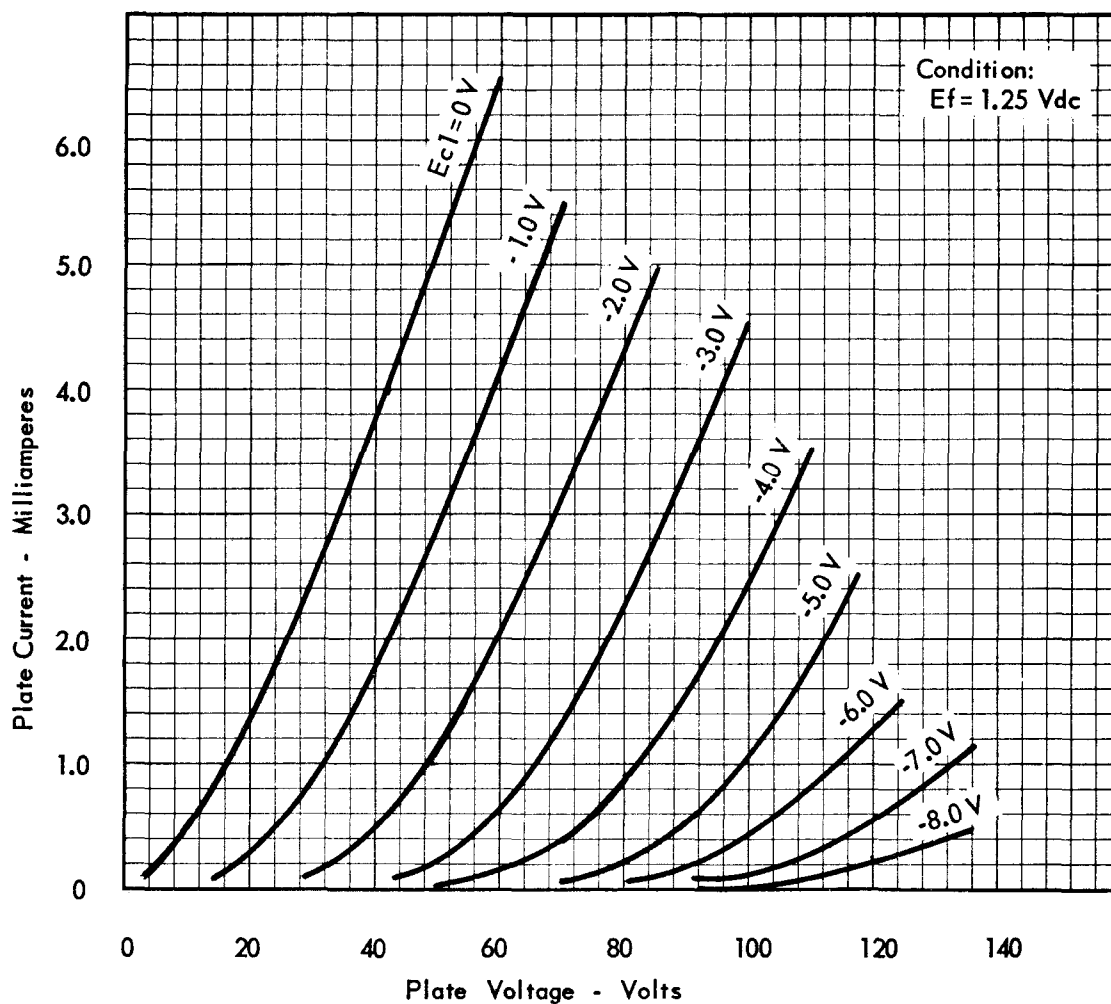
Tentative Data

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RECEIVING TUBE AND SEMICONDUCTOR OPERATIONS



SUBMINIATURE PENTODE

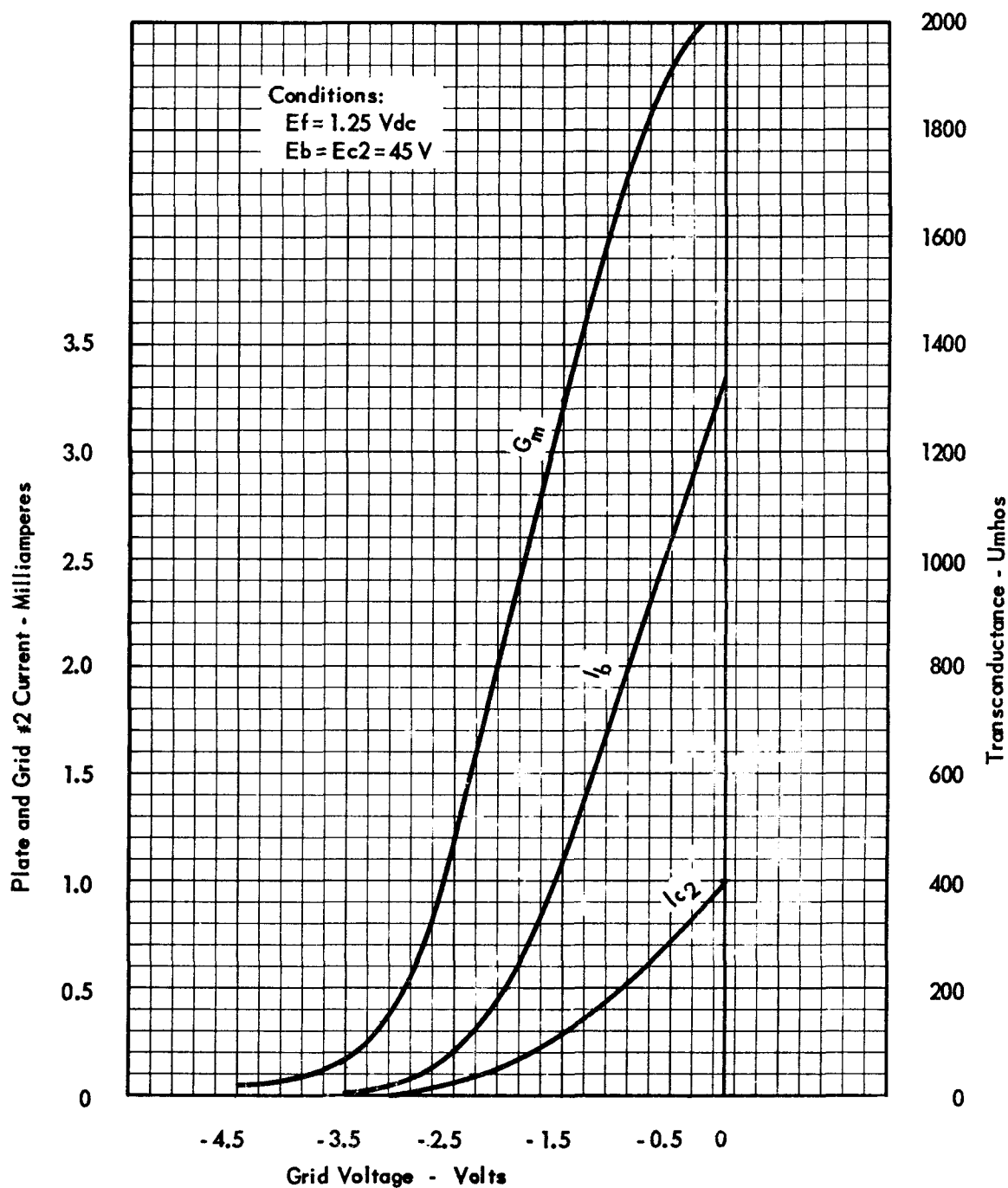
AVERAGE PLATE CHARACTERISTICS
Triode Connected

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SUBMINIATURE PENTODE

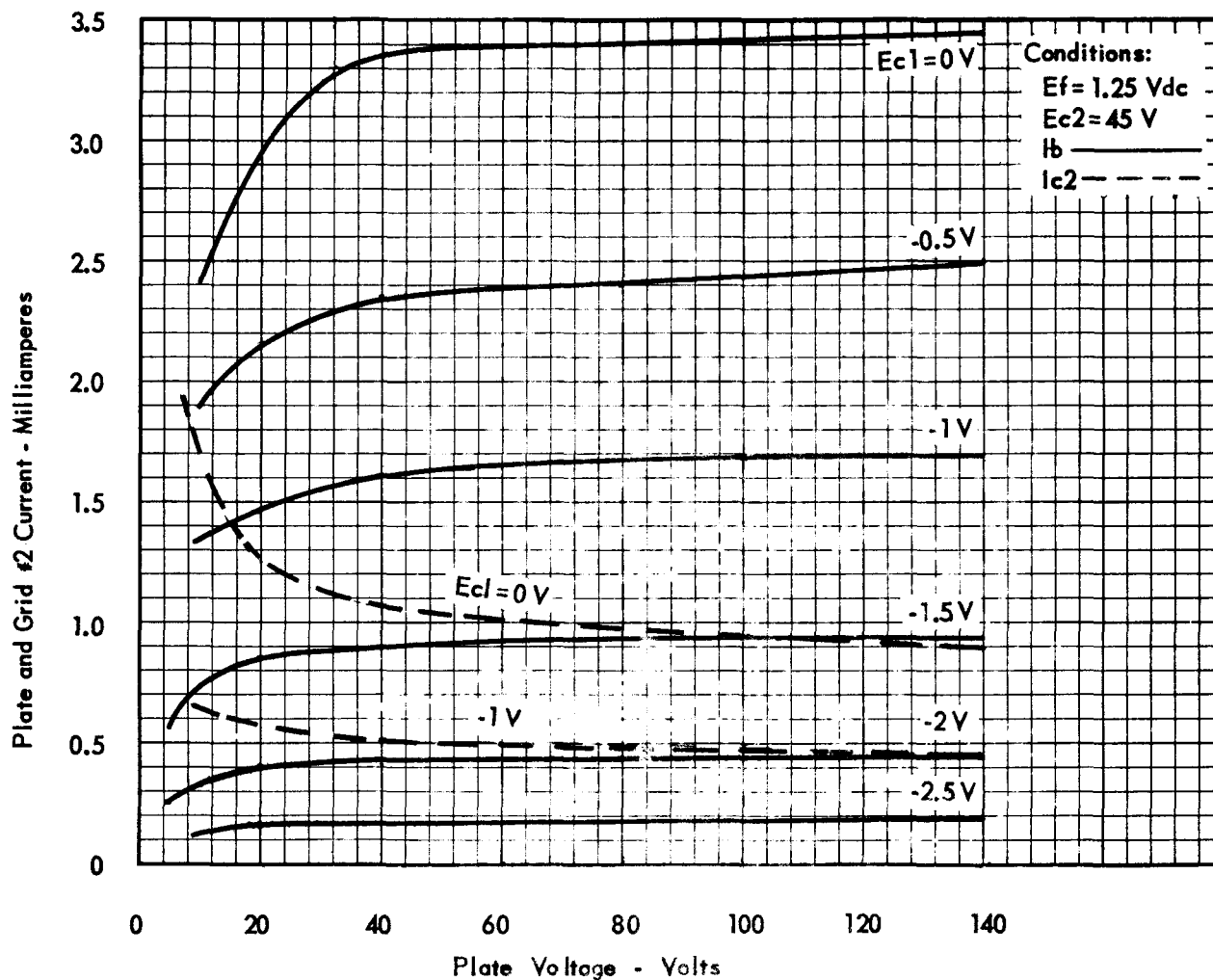
AVERAGE CHARACTERISTICS





SUBMINIATURE PENTODE

AVERAGE PLATE CHARACTERISTICS



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