



**TYPE**  
**1AG4**

*Excellence in Electronics*

The 1AG4 is a filament type power pentode of subminiature construction designed for use in the output stage in battery operated receivers. 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 4 Grid #1             |
| Lead 2 Grid #2             | Lead 5 Filament, Negative; |
| Lead 3 Filament, Positive; | Grid #3 ●                  |
| Grid #3 ●                  |                            |

MOUNTING POSITION: Any

**ELECTRICAL DATA**

DESIGN CENTER MAXIMUM RATINGS:

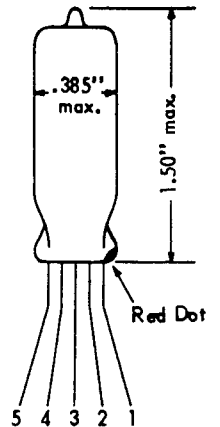
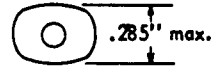
- Filament Voltage (dc)
- Plate Voltage
- Grid #2 Voltage
- Cathode Current (Zero Signal)

- 1.25 volts
- 90 volts
- 90 volts
- 4 ma.

CHARACTERISTICS AND TYPICAL OPERATION - CLASS A1 AMPLIFIER:

- Filament Voltage (dc)
- Filament Current
- Plate Voltage
- Grid #2 Voltage
- Grid #1 Voltage
- Peak AF Grid #1 Voltage
- Plate Resistance
- Transconductance
- Zero-Signal Plate Current
- Zero-Signal Grid #2 Current
- Load Resistance
- Total Harmonic Distortion (approx.)
- Power Output

- 1.25 volts
- 40 ma.
- 41.4 volts
- 41.4 volts
- 3.6 volts
- 3.6 volts
- .18 megohms
- 1000 μmhos
- 2.4 ma.
- 0.6 ma.
- 12,000 ohms
- 12 percent
- 35 mw.



● Grid #3 is composed of two separate deflector plates, one of which is connected to Lead 3 and the other to Lead 5.

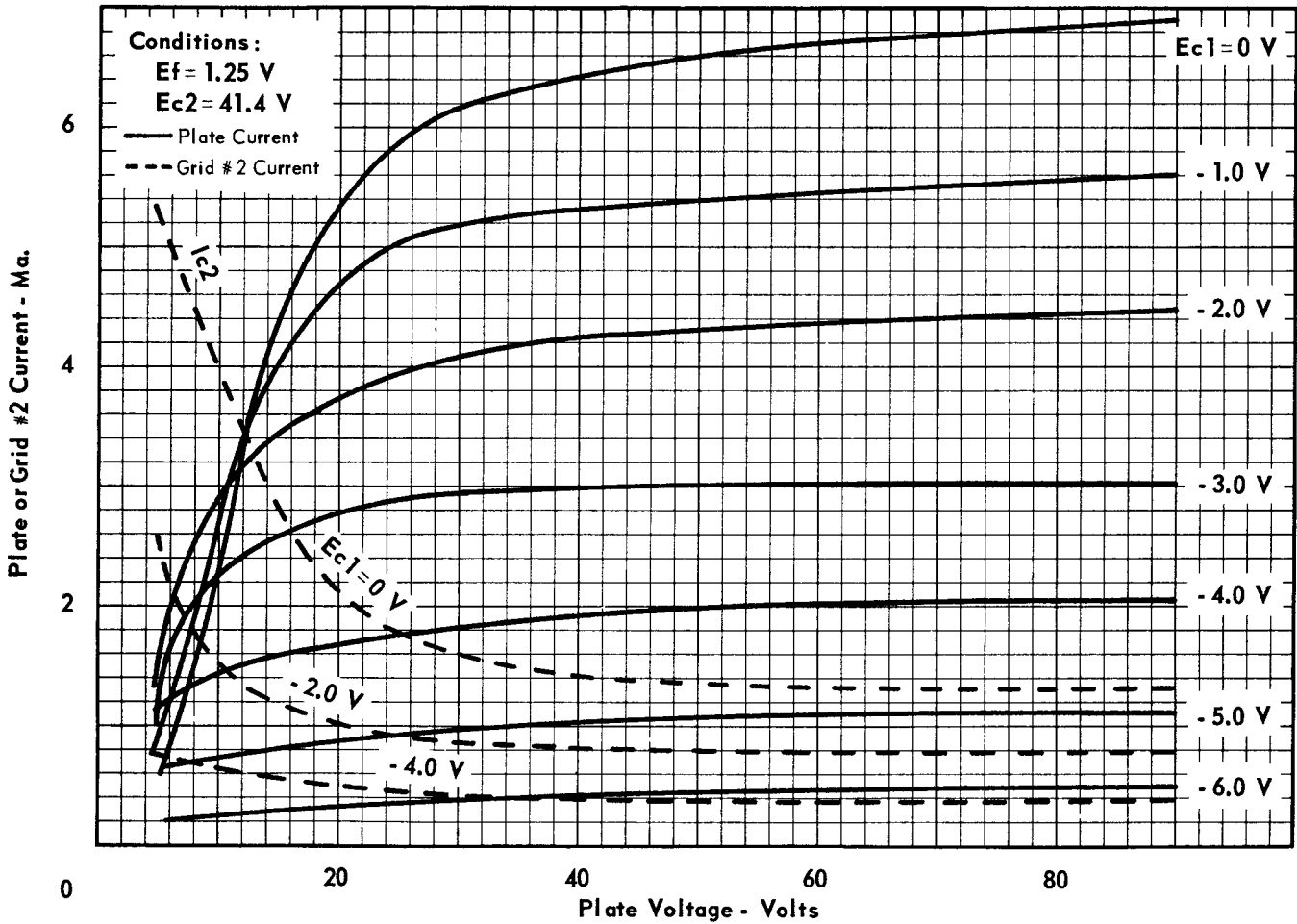
Tentative Data

**RAYTHEON MANUFACTURING COMPANY**

RECEIVING AND CATHODE RAY TUBE OPERATIONS

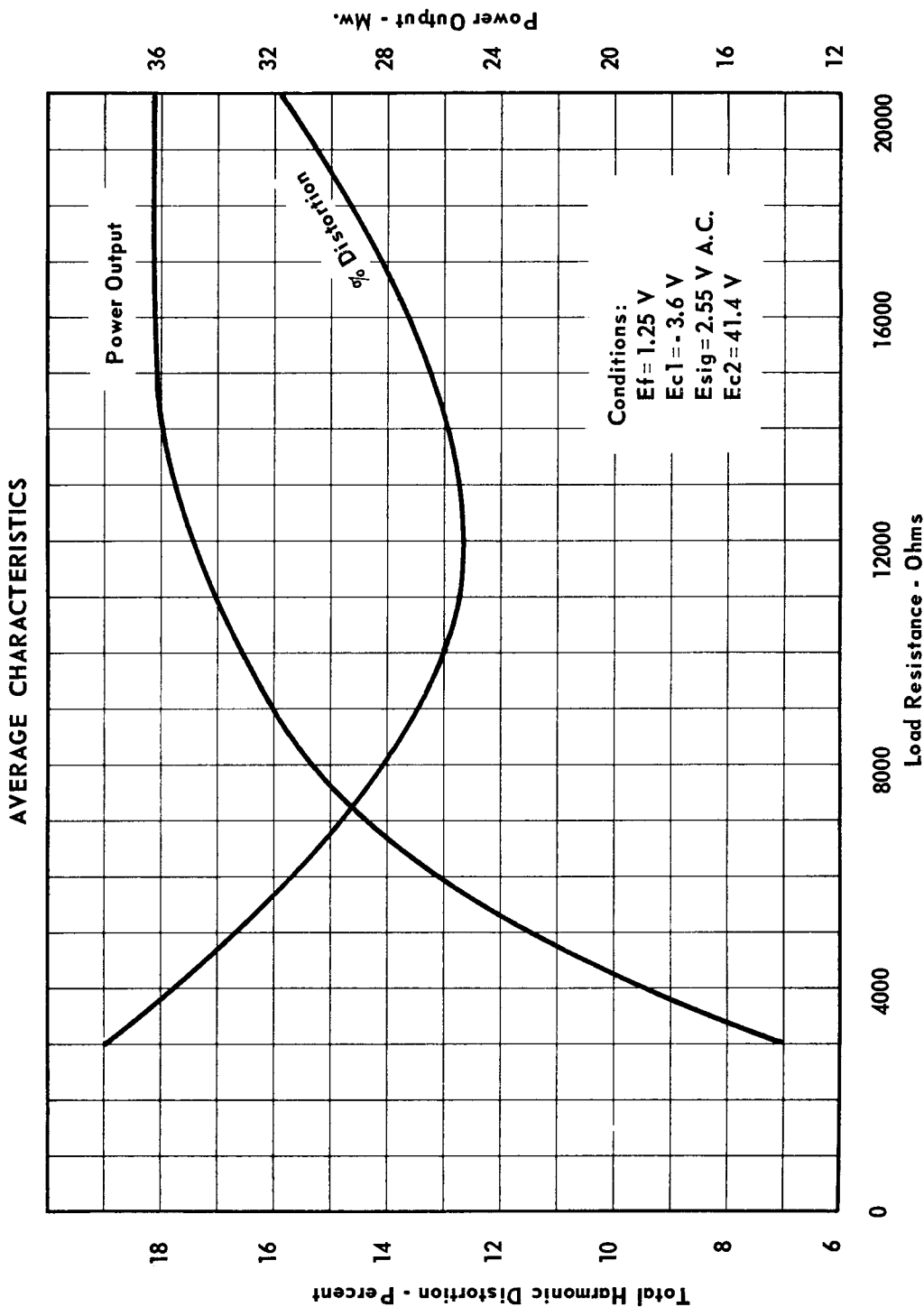


AVERAGE PLATE CHARACTERISTICS





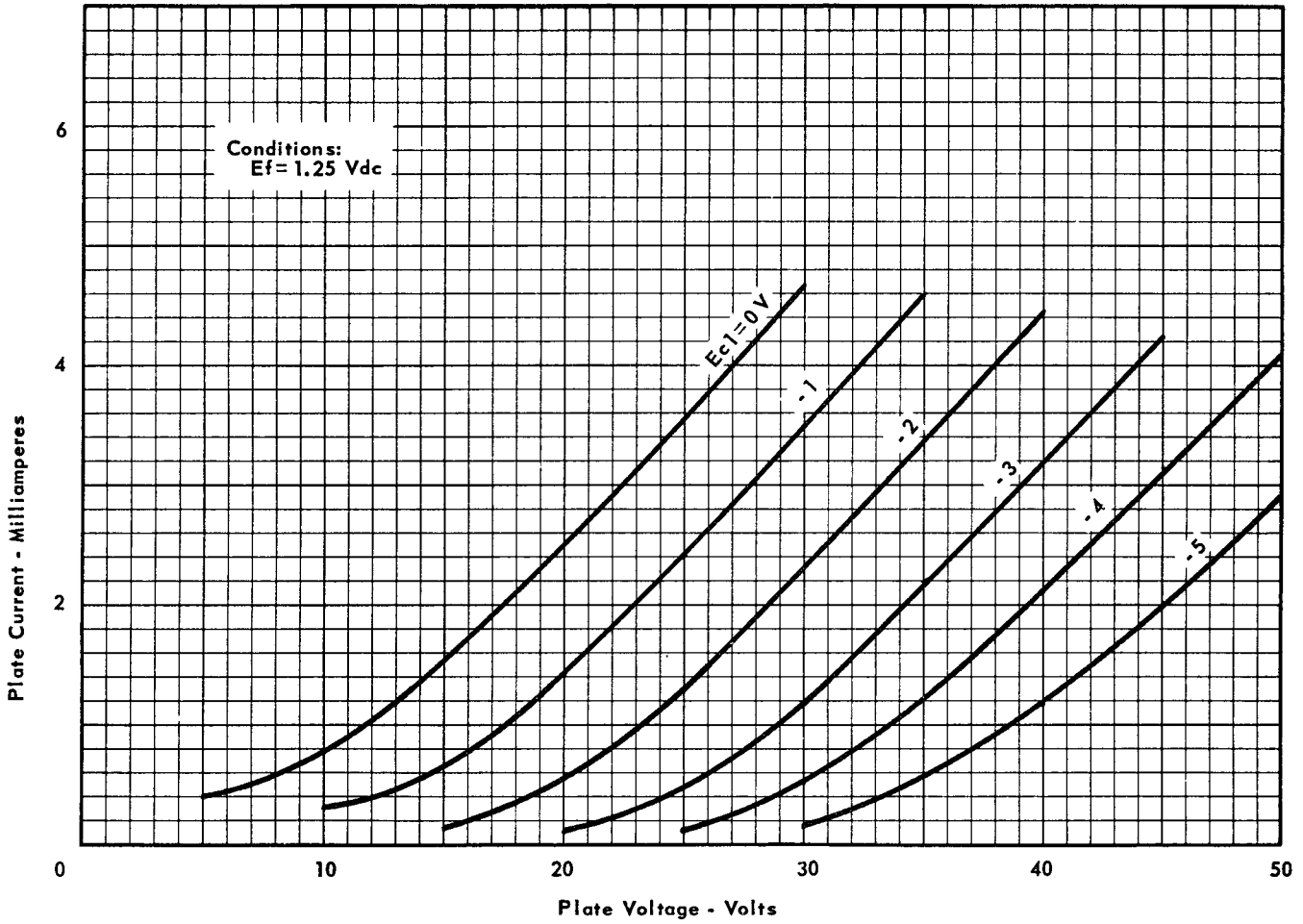
SUBMINIATURE PENTODE





SUBMINIATURE PENTODE

AVERAGE PLATE CHARACTERISTICS  
(Triode Connected)



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