



Excellence in Electronics

The 6C4W is a heater-cathode type medium-mu triode of miniature construction, suitable for use as a class C amplifier and oscillator. It is designed for dependable operation under conditions of shock and vibration usually found in mobile and aircraft applications.

MECHANICAL DATA

ENVELOPE: T-5 1/2 Glass

BASE: Miniature Button 7-Pin

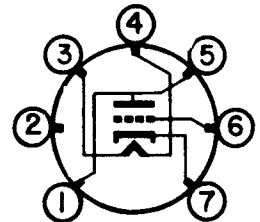
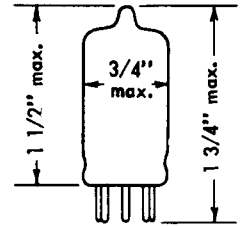
TERMINAL CONNECTIONS:

- Pin 1 Plate, Pin 2 Internal Connection, Pin 3 Heater, Pin 4 Heater, Pin 5 Plate, Pin 6 Grid, Pin 7 Cathode

MECHANICAL RATINGS:

Maximum Impact Acceleration (Note 1) 450 G, Minimum Intermittent Heater Voltage Cycles (Note 2) 2000

MOUNTING POSITION: Any



BOTTOM VIEW

6BG

ELECTRICAL DATA

HEATER CHARACTERISTICS:

Heater Voltage 6.3 ± 10% volts, Heater Current 0.15 amps, Heater-Cathode Voltage: 100 volts (negative), 100 volts (positive)

DIRECT INTERELECTRODE CAPACITANCES: (pfd.s.)

Table with columns: Electrode pair, With Shield, Without Shield. Rows: Grid to Plate, Input, Output.

RATINGS - ABSOLUTE MAXIMUM VALUES:

Table comparing Class A1 Amplifier and Class C Amplifier ratings for Plate Voltage, Grid Voltage, Plate Current, Grid Current, Plate Dissipation, Minimum External Grid-Bias Voltage, Grid Circuit Resistance, Fixed Bias, and Cathode Bias.

CHARACTERISTICS AND TYPICAL OPERATION - CLASS A1 AMPLIFIER:

Table showing typical operating values for Class A1 Amplifier: Plate Voltage (100), Grid Voltage (0), Plate Resistance (5900), Transconductance (3300), Amplification Factor (19.5), Plate Current (11.8).

* External shield #316 connected to pin.

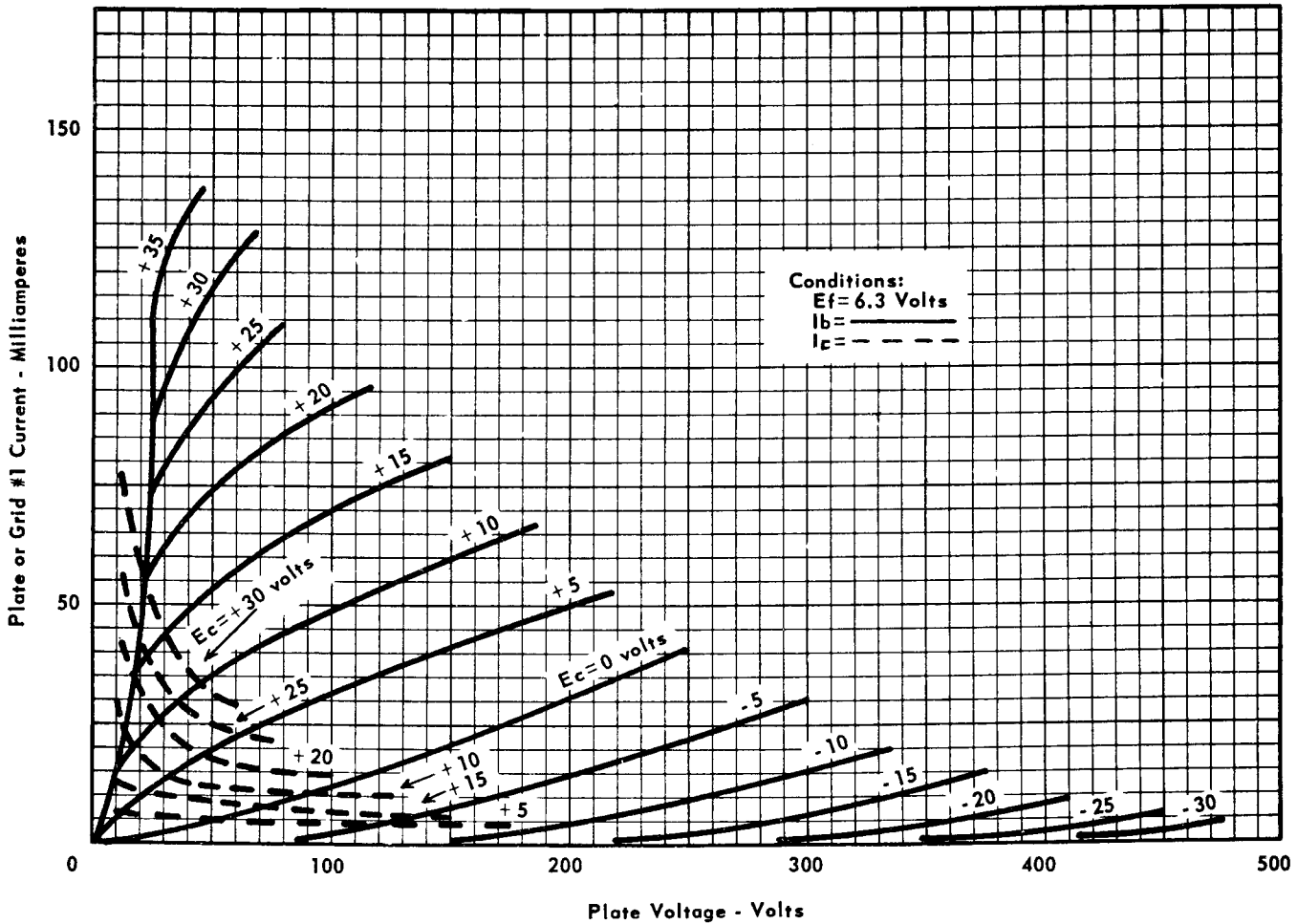
Note 1: Forces in any direction as applied by the Navy type High Impact Machine for Electronic Devices.

Note 2: As checked at Ef=7.5 volts ac, on one minute and off one minute.



TRIODE

AVERAGE PLATE CHARACTERISTICS



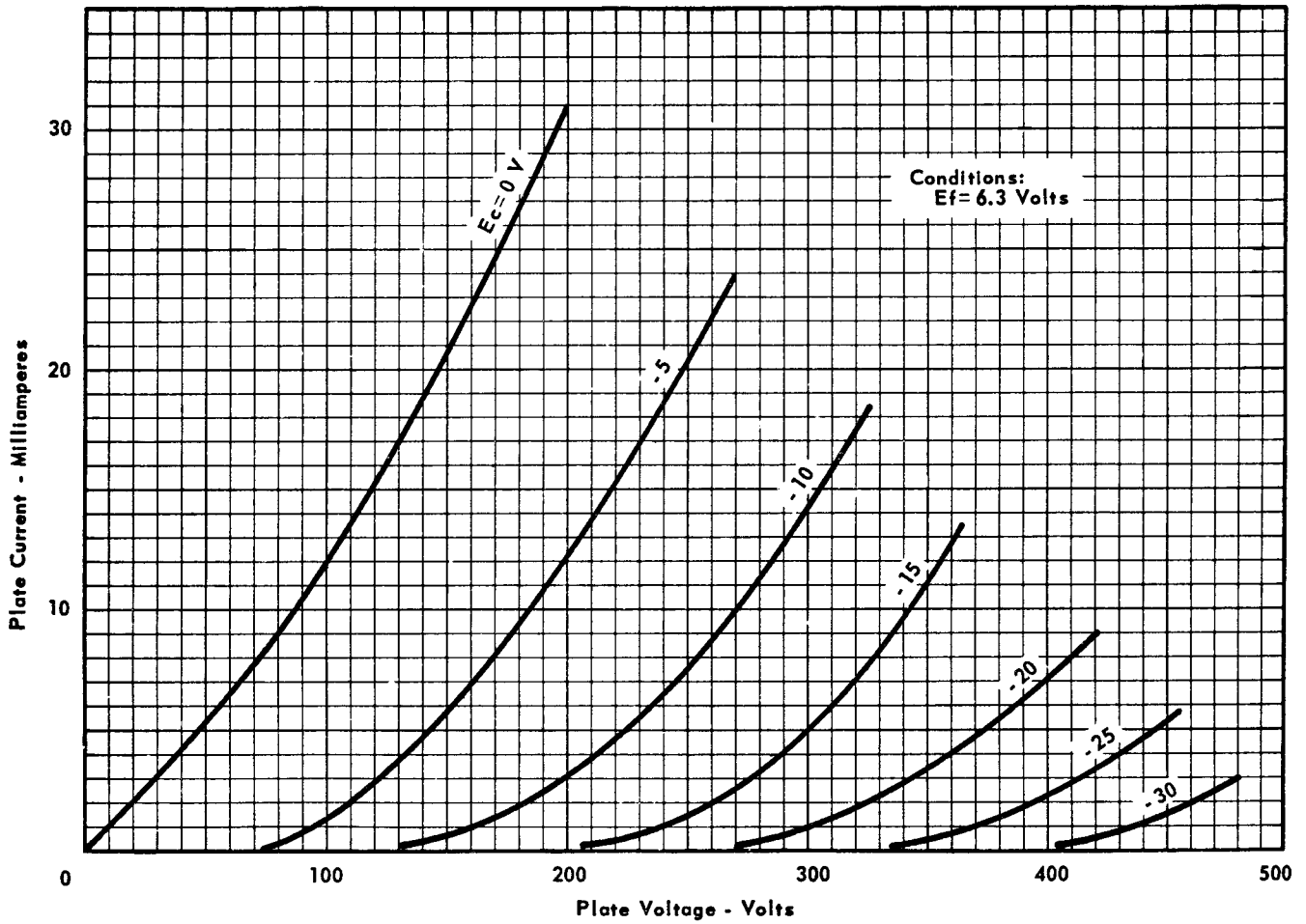
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RECEIVING AND CATHODE RAY TUBE OPERATIONS



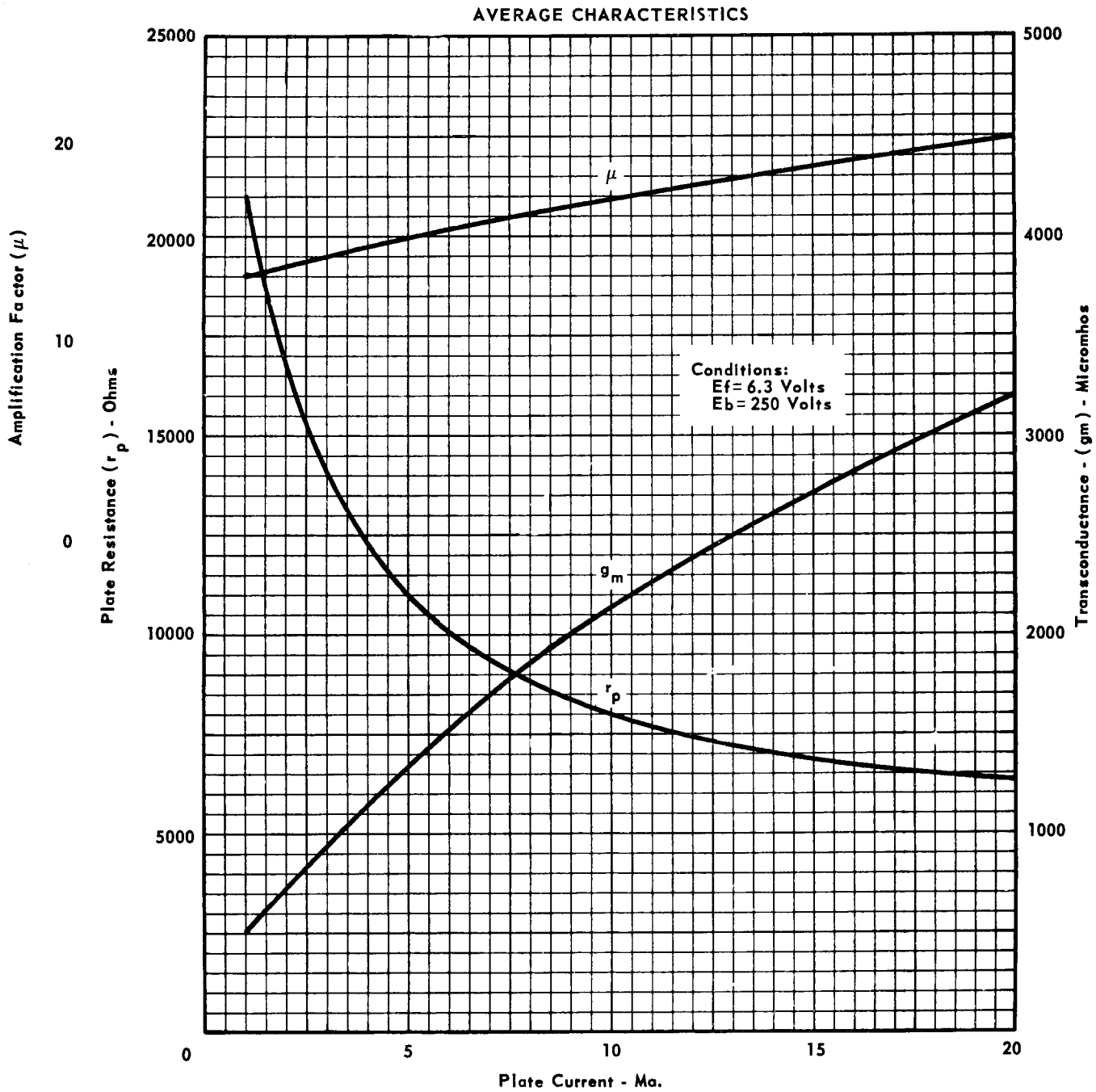
TRIODE

AVERAGE PLATE CHARACTERISTICS





TRIODE



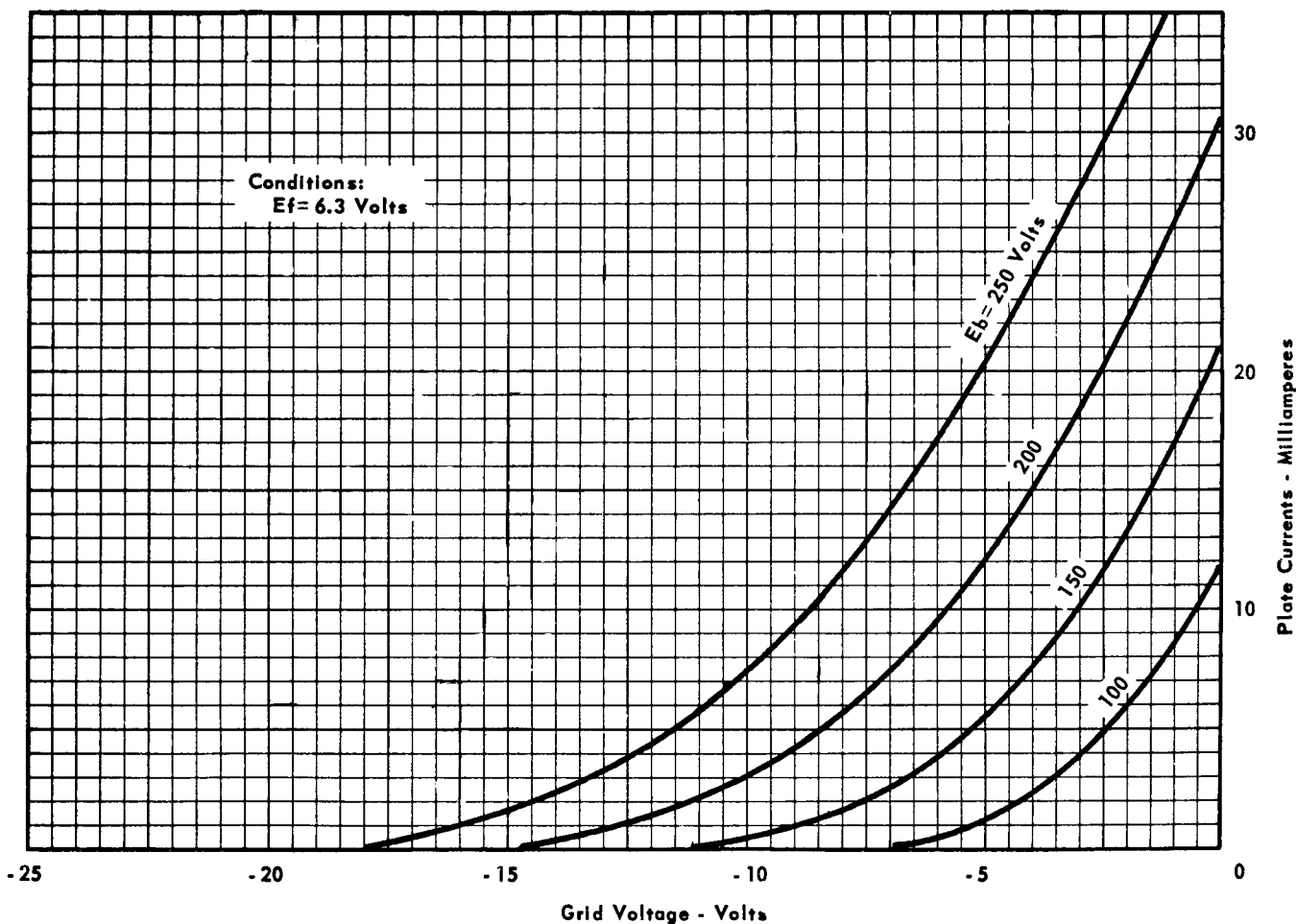
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TRIODE

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