

*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 DATAENVELOPE: T-5 1/2 GlassBASE: Miniature Button 7-PinTERMINAL CONNECTIONS:

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

MECHANICAL RATINGS:

Maximum Impact Acceleration (Note 1)

Minimum Intermittent Heater Voltage Cycles (Note 2)

MOUNTING POSITION: Any450 G
2000**ELECTRICAL DATA**HEATER CHARACTERISTICS:

Heater Voltage

Heater Current

Heater-Cathode Voltage:

Heater Negative with respect to Cathode

Heater Positive with respect to Cathode

6.3 ± 10% volts
0.15 amps.100 volts
100 voltsDIRECT INTERELECTRODE CAPACITANCES: (μμds.)

	<u>With Shield *</u>	<u>Without Shield</u>
Grid to Plate	1.8	1.8
Input	1.8	1.7
Output	2.0	1.1

RATINGS - ABSOLUTE MAXIMUM VALUES:

	<u>Class A1 Amplifier</u>	<u>Class C Amplifier</u>
Plate Voltage	330	330 volts
Grid Voltage	-55	-55 volts
Plate Current	----	28 ma.
Grid Current	----	9 ma.
Plate Dissipation	3.8	5.5 watts
Minimum External Grid-Bias Voltage	0	---- volts
Grid Circuit Resistance:		
Fixed Bias	0.25	0.25 meg.
Cathode Bias	1.0	1.0 meg.

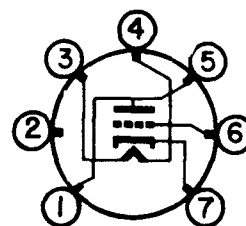
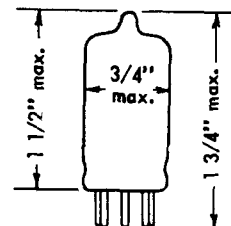
CHARACTERISTICS AND TYPICAL OPERATION - CLASS A1 AMPLIFIER:

Plate Voltage	100	250 volts
Grid Voltage	0	-8.5 volts
Plate Resistance	5900	7700 ohms
Transconductance	3300	2200 μmhos
Amplification Factor	19.5	17.0
Plate Current	11.8	10.5 ma.

* 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.



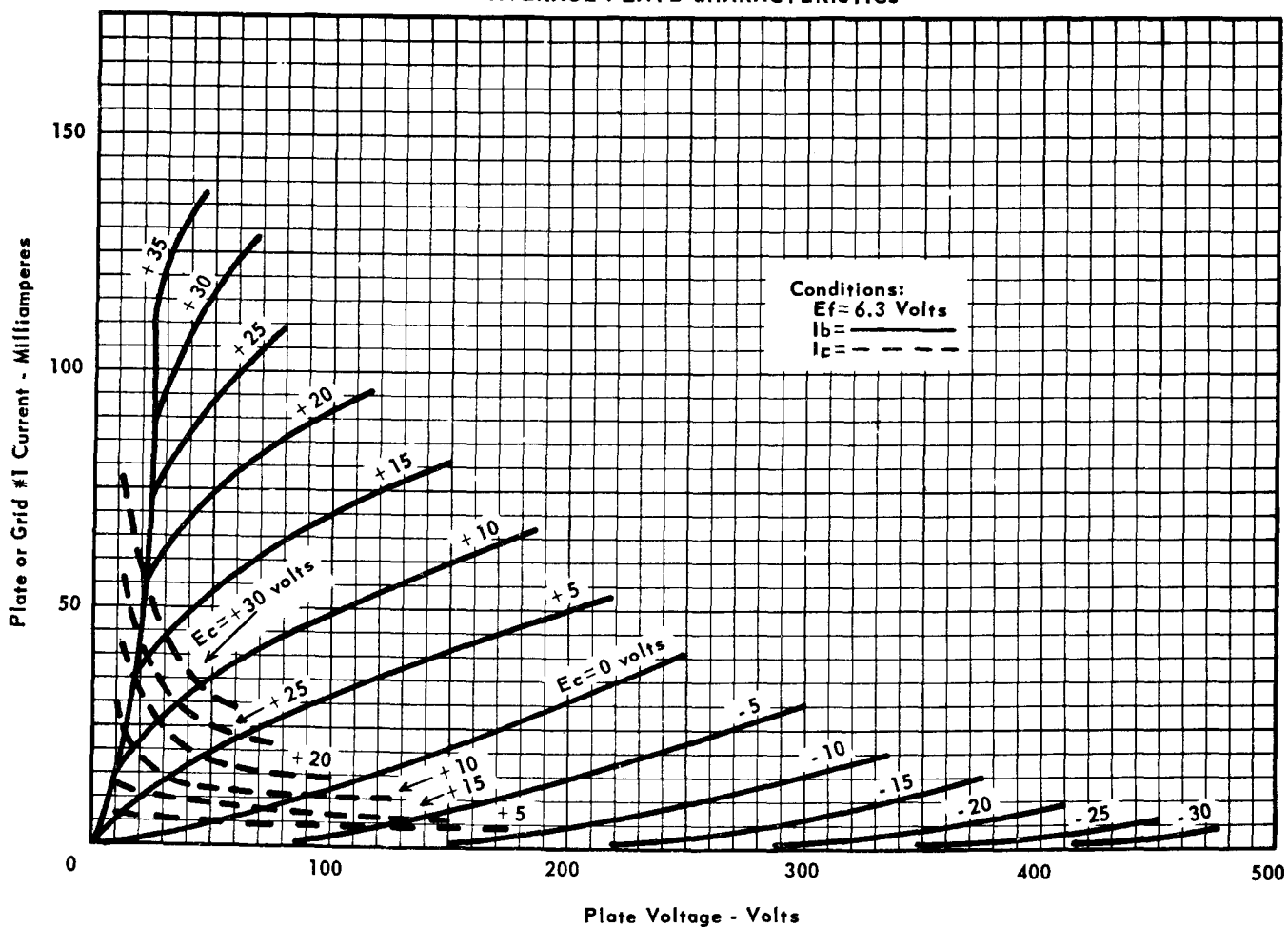
BOTTOM VIEW

6BG



TRIODE

AVERAGE PLATE CHARACTERISTICS



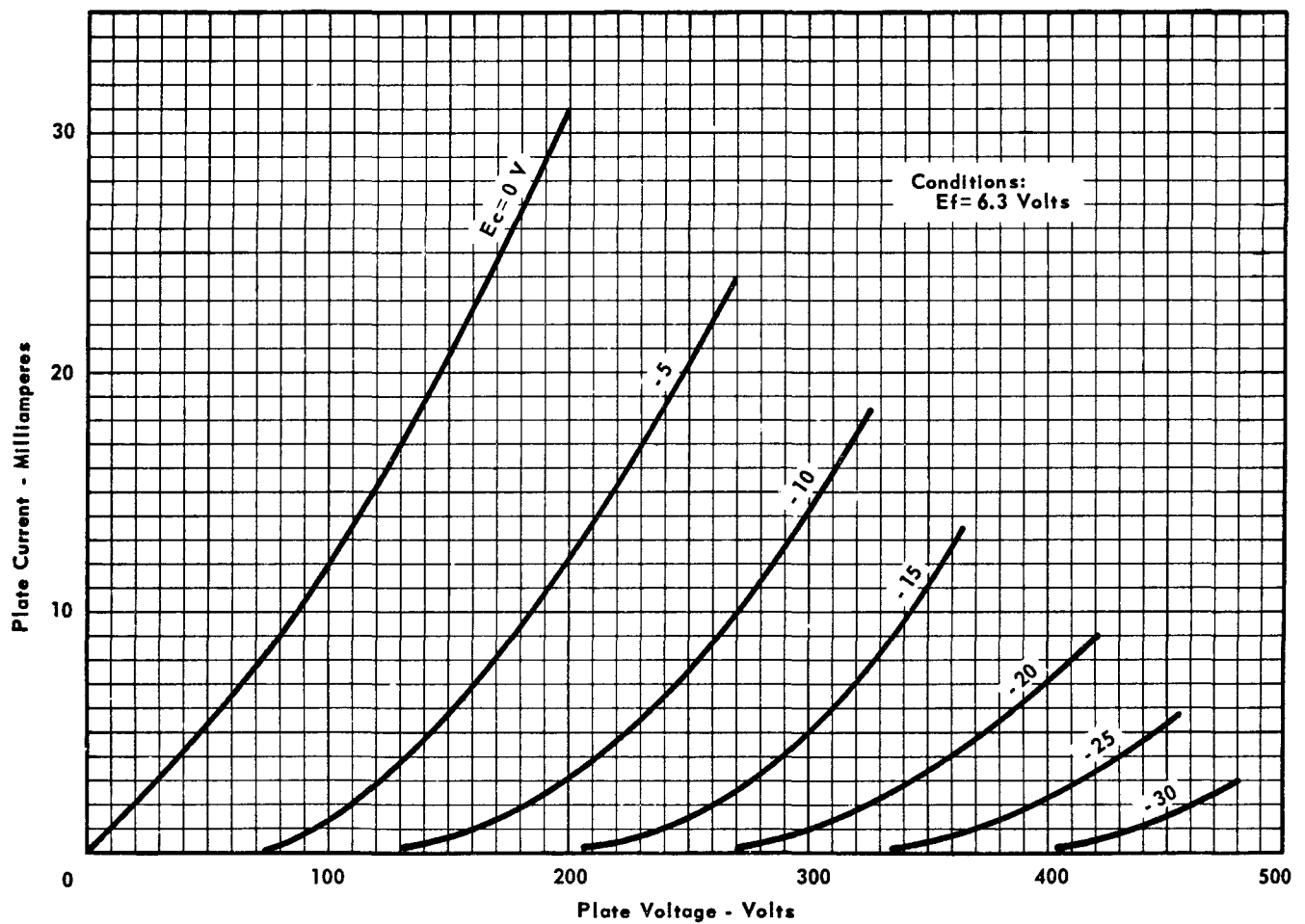
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RECEIVING AND CATHODE RAY TUBE OPERATIONS



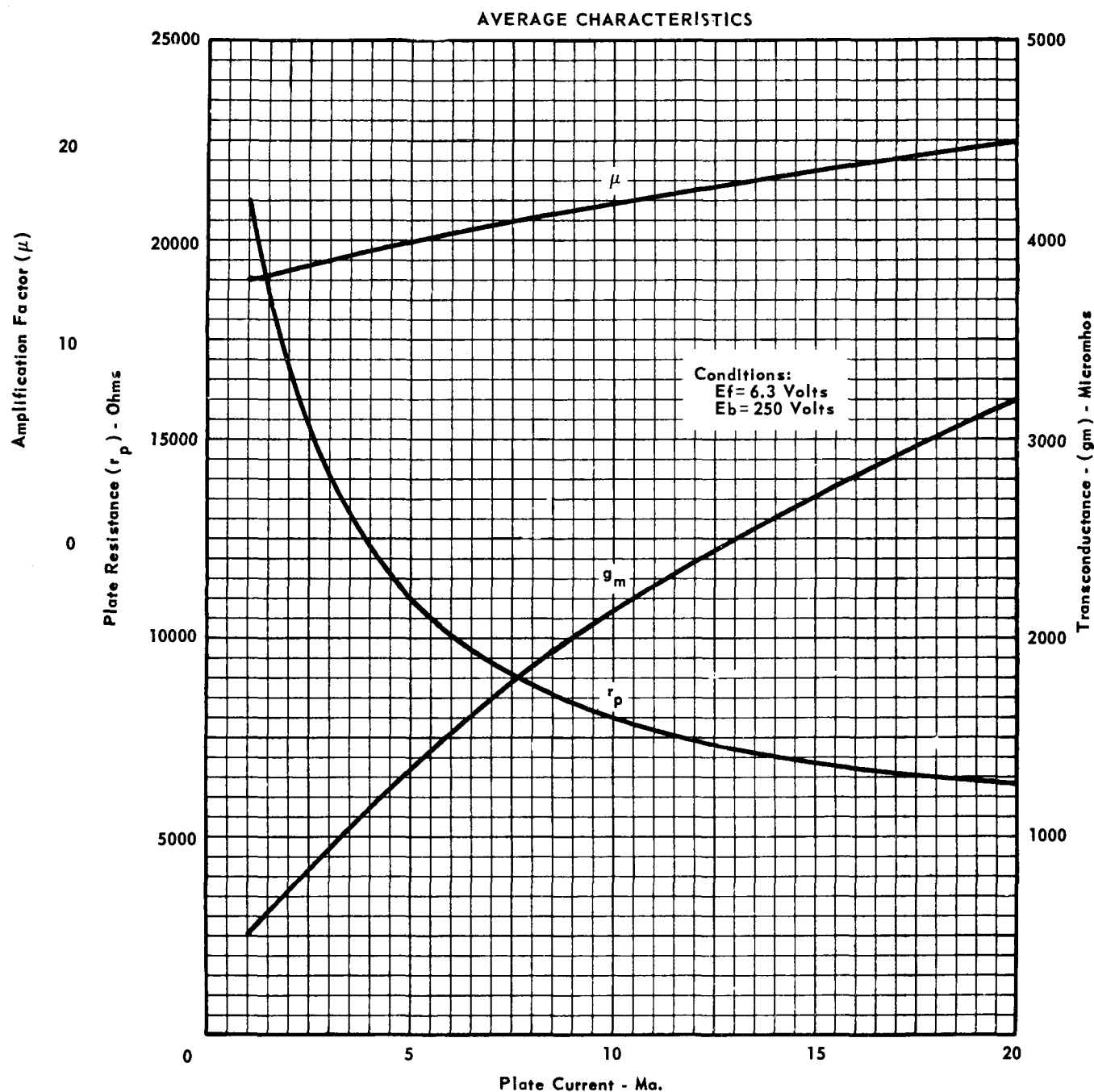
TRIODE

AVERAGE PLATE CHARACTERISTICS





TRIODE

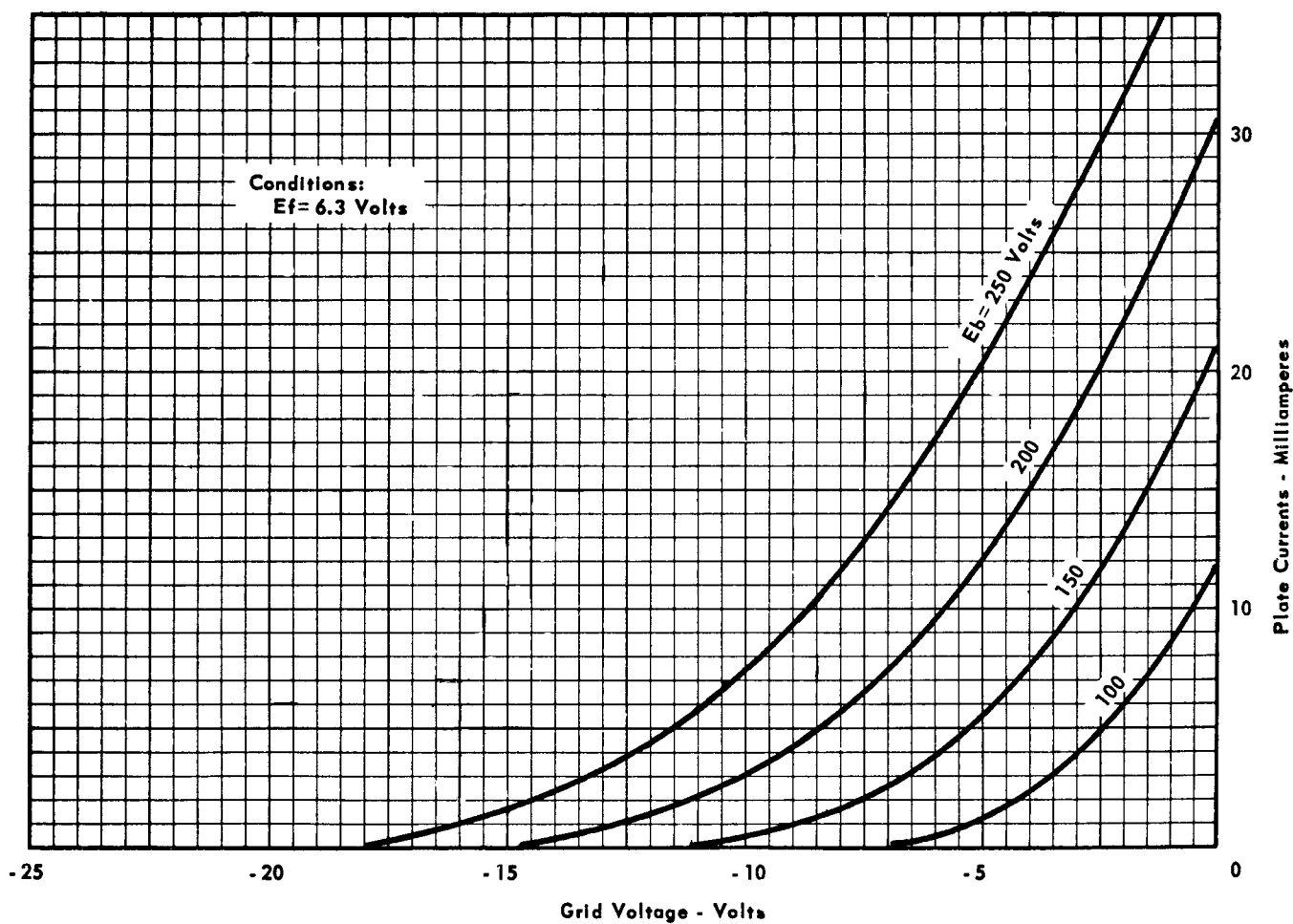


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RECEIVING AND CATHODE RAY TUBE OPERATIONS



TRIODE

AVERAGE CHARACTERISTICS



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