



TYPE 6C4W

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: (pFds.)

	With Shield *	Without Shield
Grid to Plate	1.8	1.8
Input	1.8	1.7
Output	2.0	1.1

RATINGS - ABSOLUTE MAXIMUM VALUES:

	Class A1 Amplifier	Class C Amplifier
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.

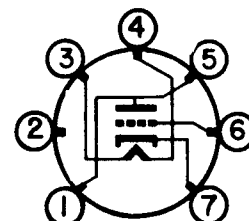
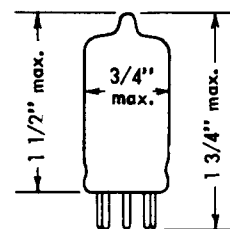
CHARACTERISTICS AND TYPICAL OPERATION - CLASS A1 AMPLIFIER:

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

Data

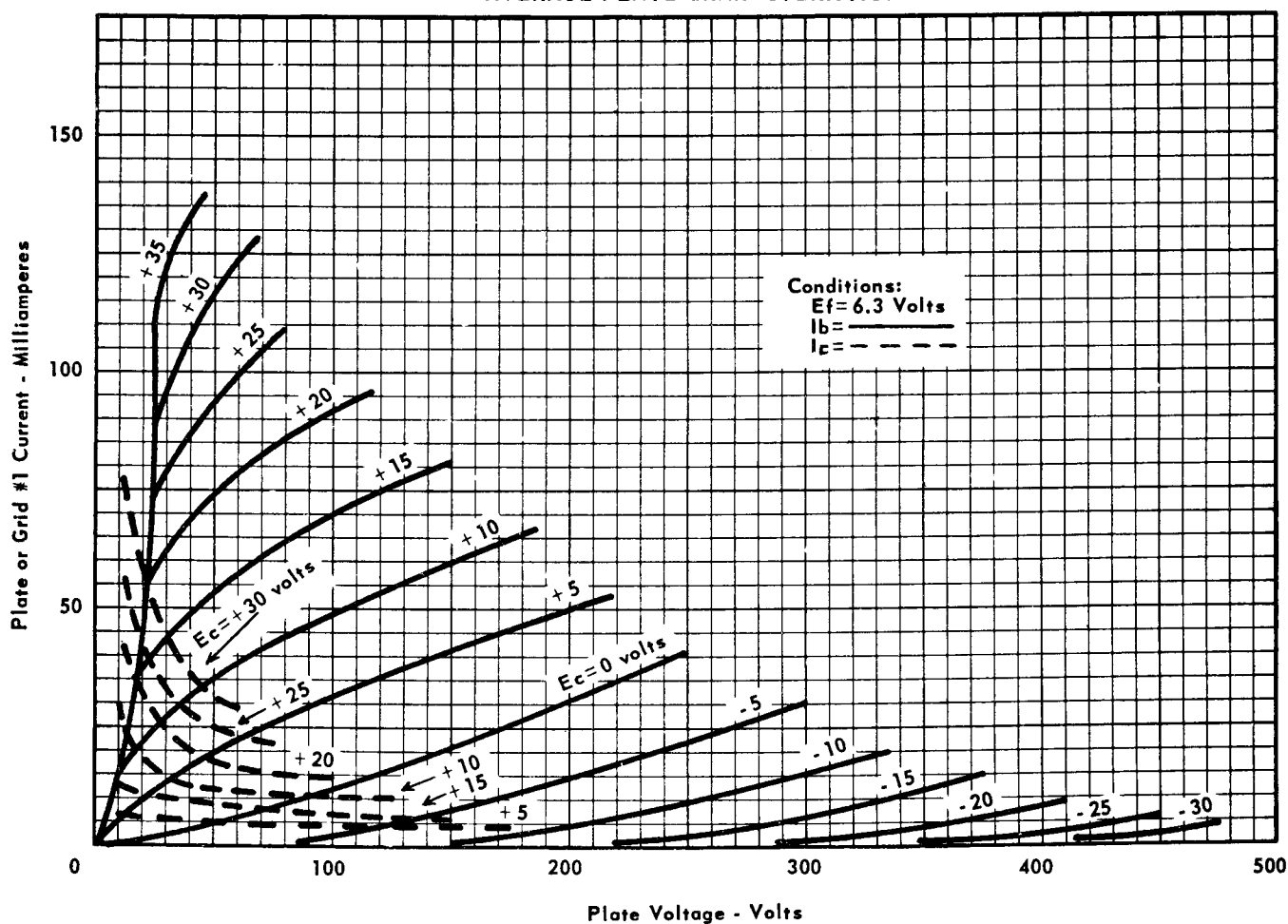
RAYTHEON MANUFACTURING COMPANY

RECEIVING AND CATHODE RAY TUBE OPERATIONS



TRIODE

AVERAGE PLATE CHARACTERISTICS



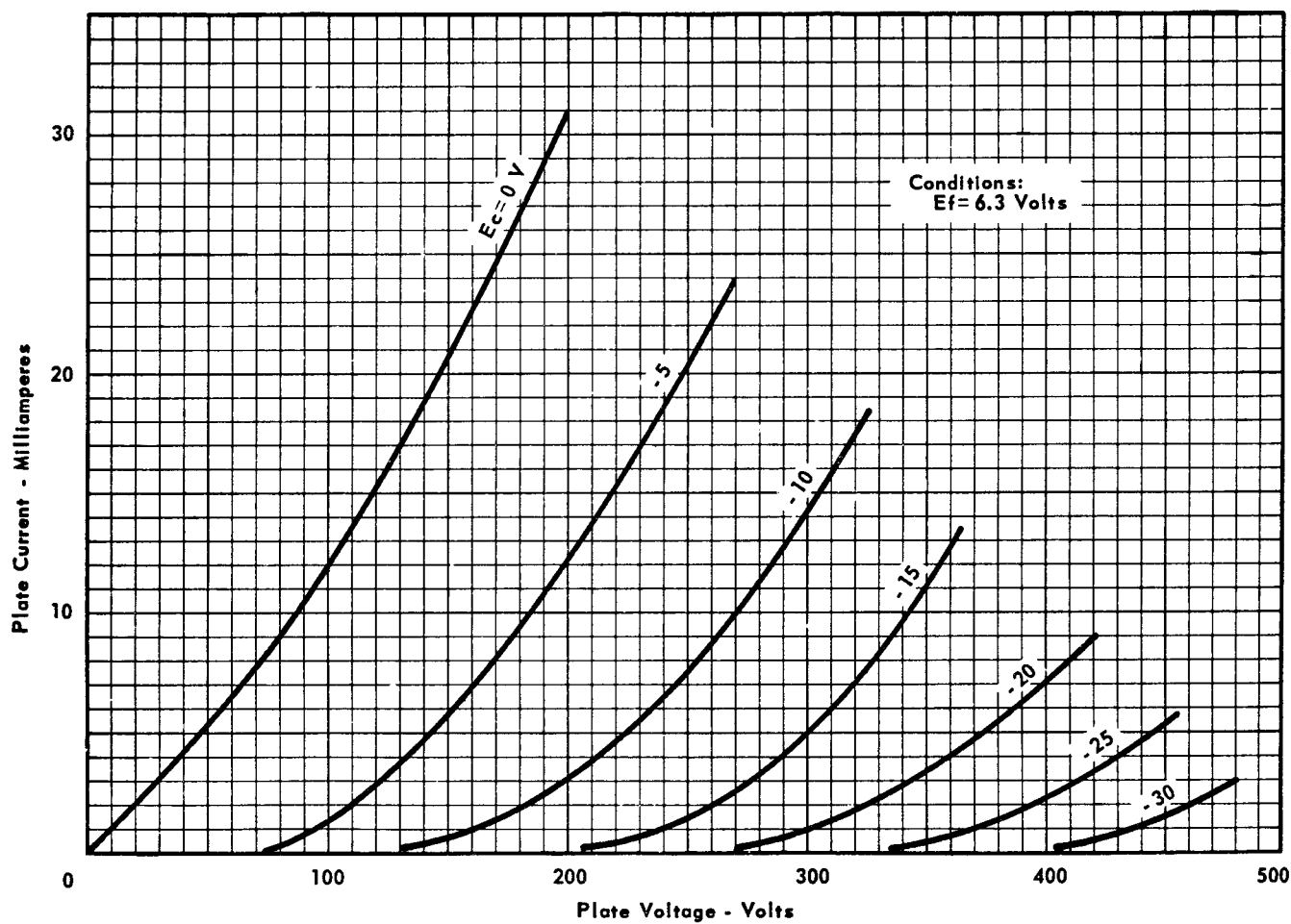
RAYTHEON MANUFACTURING COMPANY

RECEIVING AND CATHODE RAY TUBE OPERATIONS



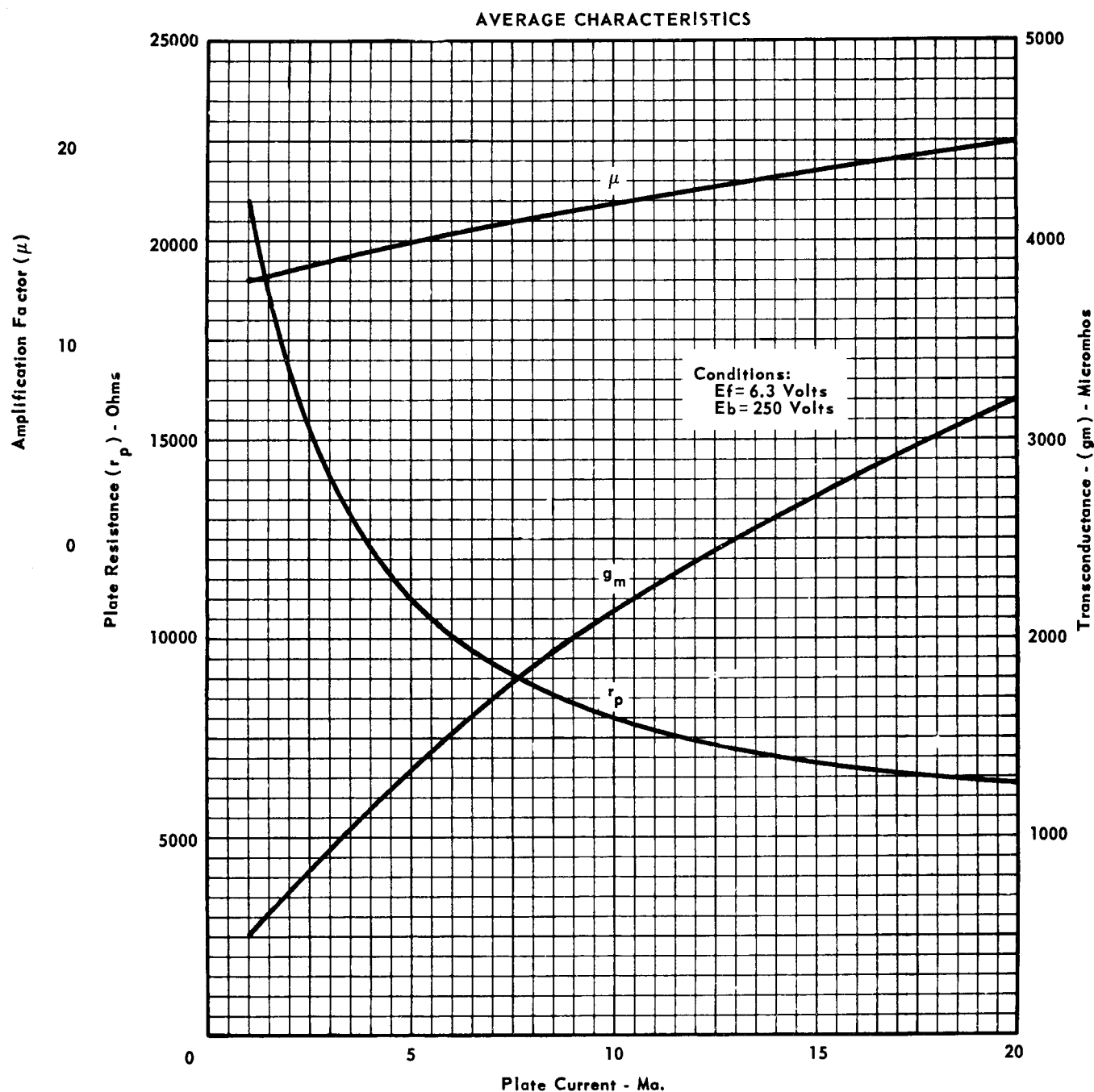
TRIODE

AVERAGE PLATE CHARACTERISTICS





TRIODE



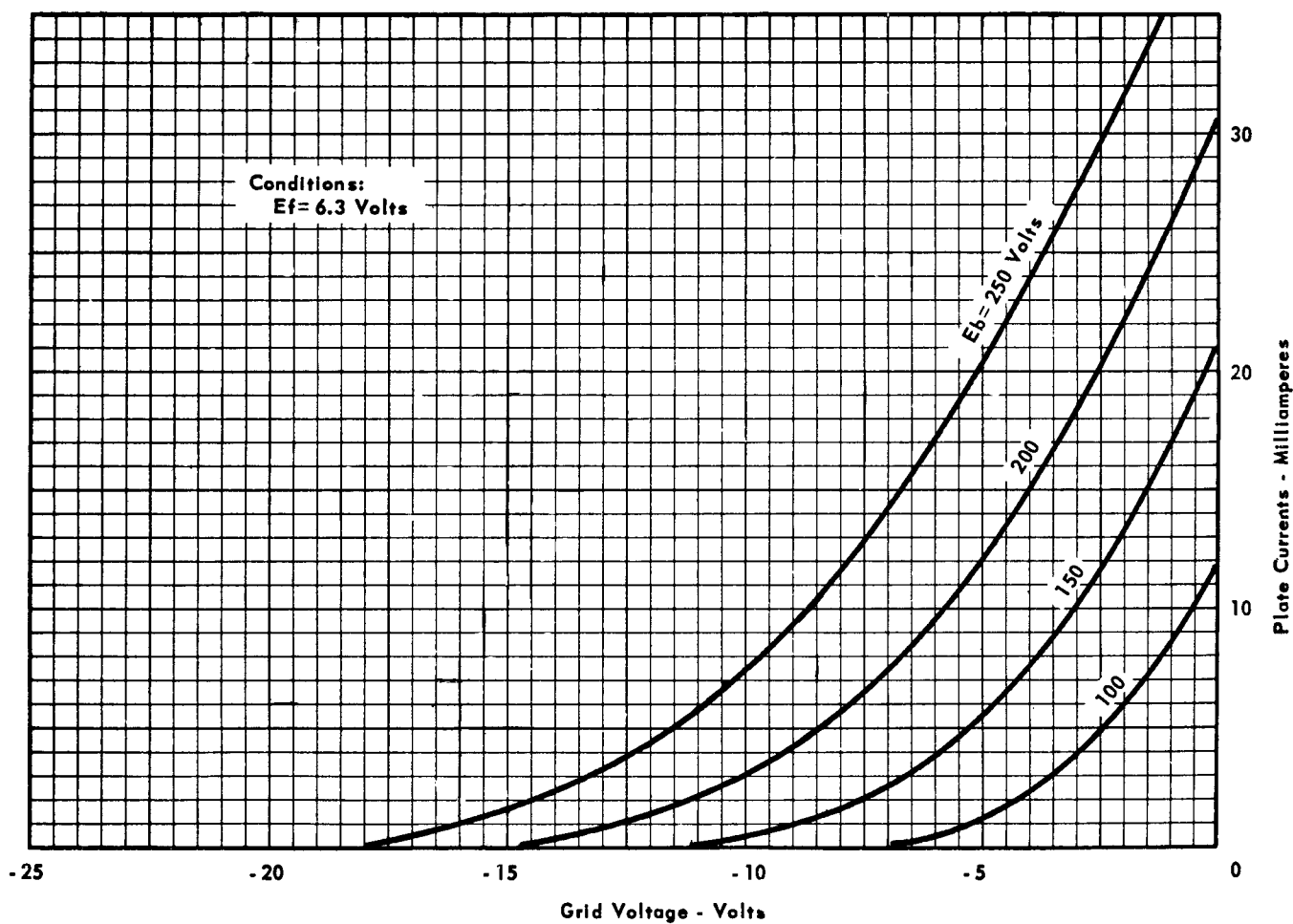
RAYTHEON MANUFACTURING COMPANY

RECEIVING AND CATHODE RAY TUBE OPERATIONS



TRIODE

AVERAGE CHARACTERISTICS



RAYTHEON MANUFACTURING COMPANY

REVIEWING AND CATHODE RAY TUBE OPERATIONS