

MECHANICAL DATA

Bulb	T-9
Base ¹	B6-81 or B7-7 Intermediate Shell Octal
	or B6-84 or B7-59 Short Intermediate Shell Octal
Outline	9-11 or 9-41
Basing	7S
Cathode	Coated Unipotential
Mounting Position	Any

ELECTRICAL DATA

HEATER CHARACTERISTICS

Heater Voltage	6.3 Volts	
Heater Current	1.2 Amperes	
Heater-Cathode Voltage (Design Center Values)		
Heater Negative with Respect to Cathode		
Total DC and Peak	200 Volts	Max.
Heater Positive with Respect to Cathode		
DC	100 Volts	Max.
Total DC and Peak	200 Volts	Max.

RATINGS (Design Center Values)

Class A₁ Amplifier

Plate Voltage	200 Volts	Max.
Grid No. 2 Voltage	125 Volts	Max.
Plate Dissipation	10 Watts	Max.
Grid No. 2 Dissipation	1.25 Watts	Max.
Grid No. 1 Circuit Resistance		
Fixed Bias	0.1 Megohm	Max.
Cathode Bias	0.5 Megohm	Max.

CHARACTERISTICS AND TYPICAL OPERATION (Single Tube)

Class A₁ Amplifier

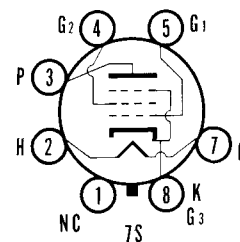
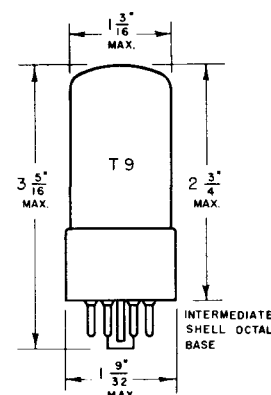
Plate Voltage	110	200 Volts
Grid No. 2 Voltage	110	125 Volts
Grid No. 1 Voltage	-7.5	Volts
Cathode Bias Resistor	180	Ohms
Peak AF Grid No. 1 Voltage	7.5	8.5 Volts
Zero-Signal Plate Current	49	46 Ma
Maximum-Signal Plate Current	50	47 Ma
Zero-Signal Grid No. 2 Current	4.0	2.2 Ma
Maximum-Signal Grid No. 2 Current	10	8.5 Ma
Plate Resistance (approx.)	13,000	28,000 Ohms
Transconductance	8,000	8,000 μ mhos
Load Resistance	2,000	4,000 Ohms
Maximum-Signal Power Output	2.1	3.8 Watts
Total Harmonic Distortion (approx.)	10	10 Percent

NOTE:

1. Pin No. 1 omitted on bases B6-81 and B6-84.

QUICK REFERENCE DATA

The Sylvania Type 6DG6GT is a beam power pentode intended for service as an audio power amplifier. Electrical characteristics of the 6DG6GT are identical to those of the 6W6GT.



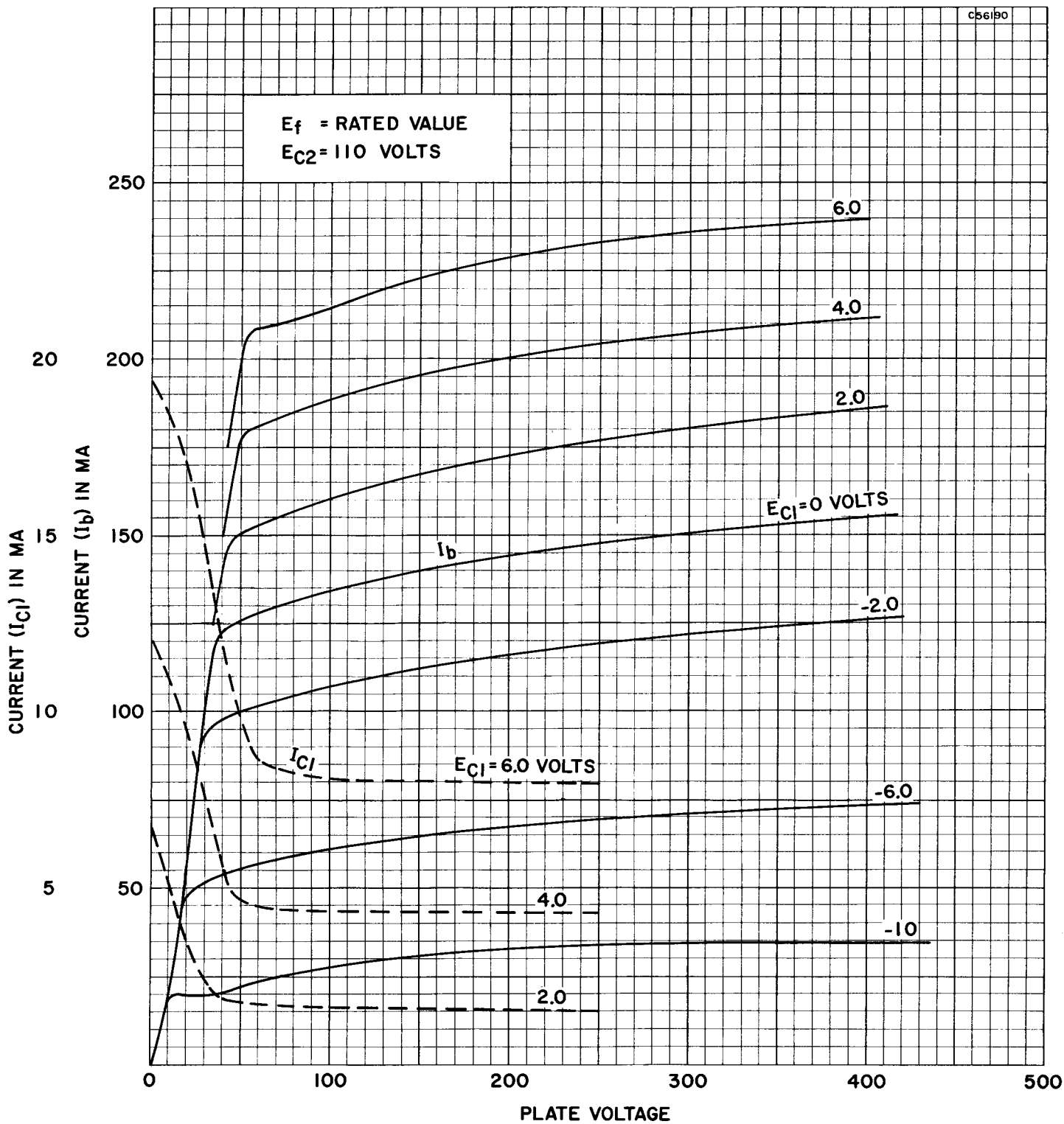
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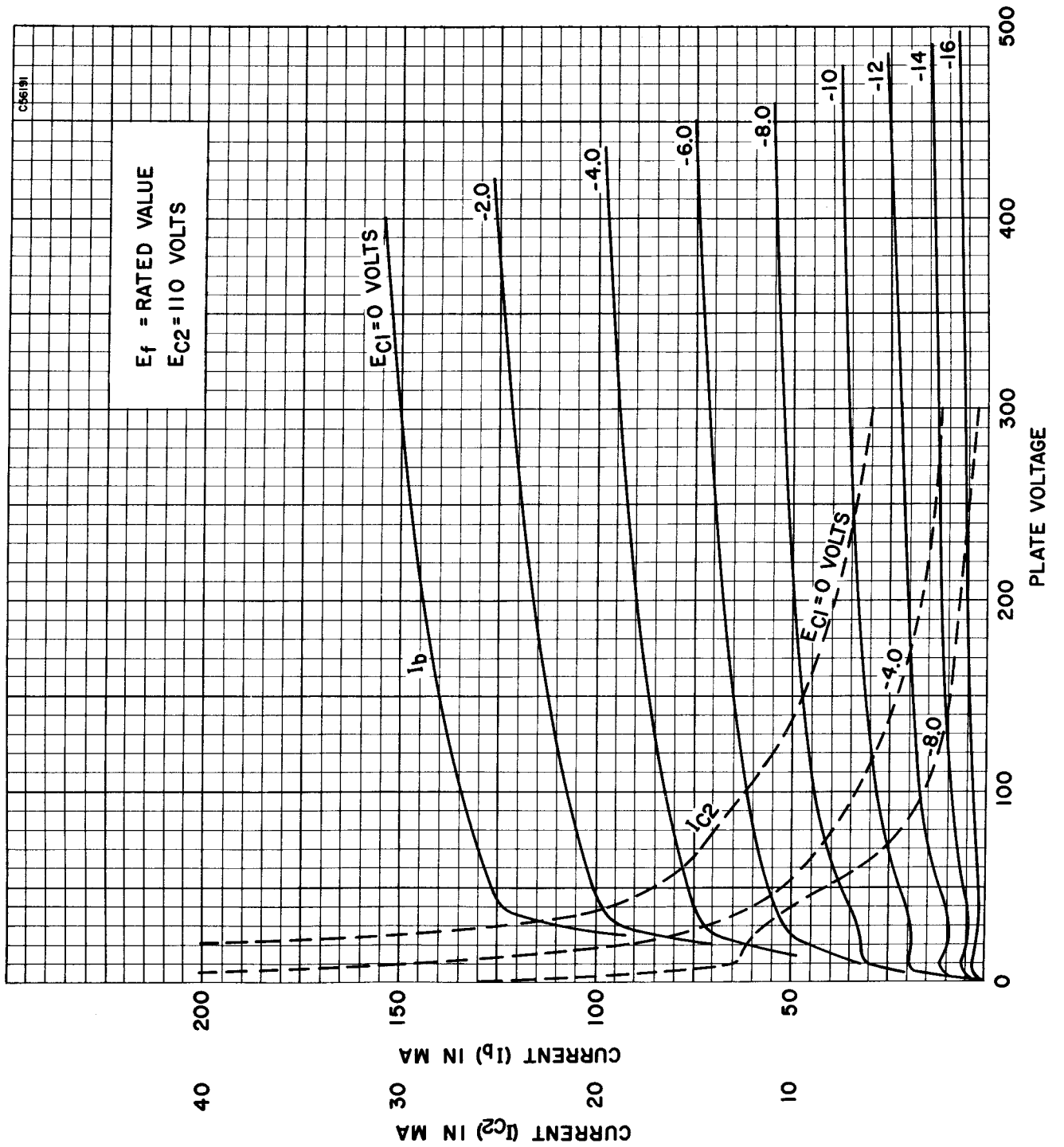
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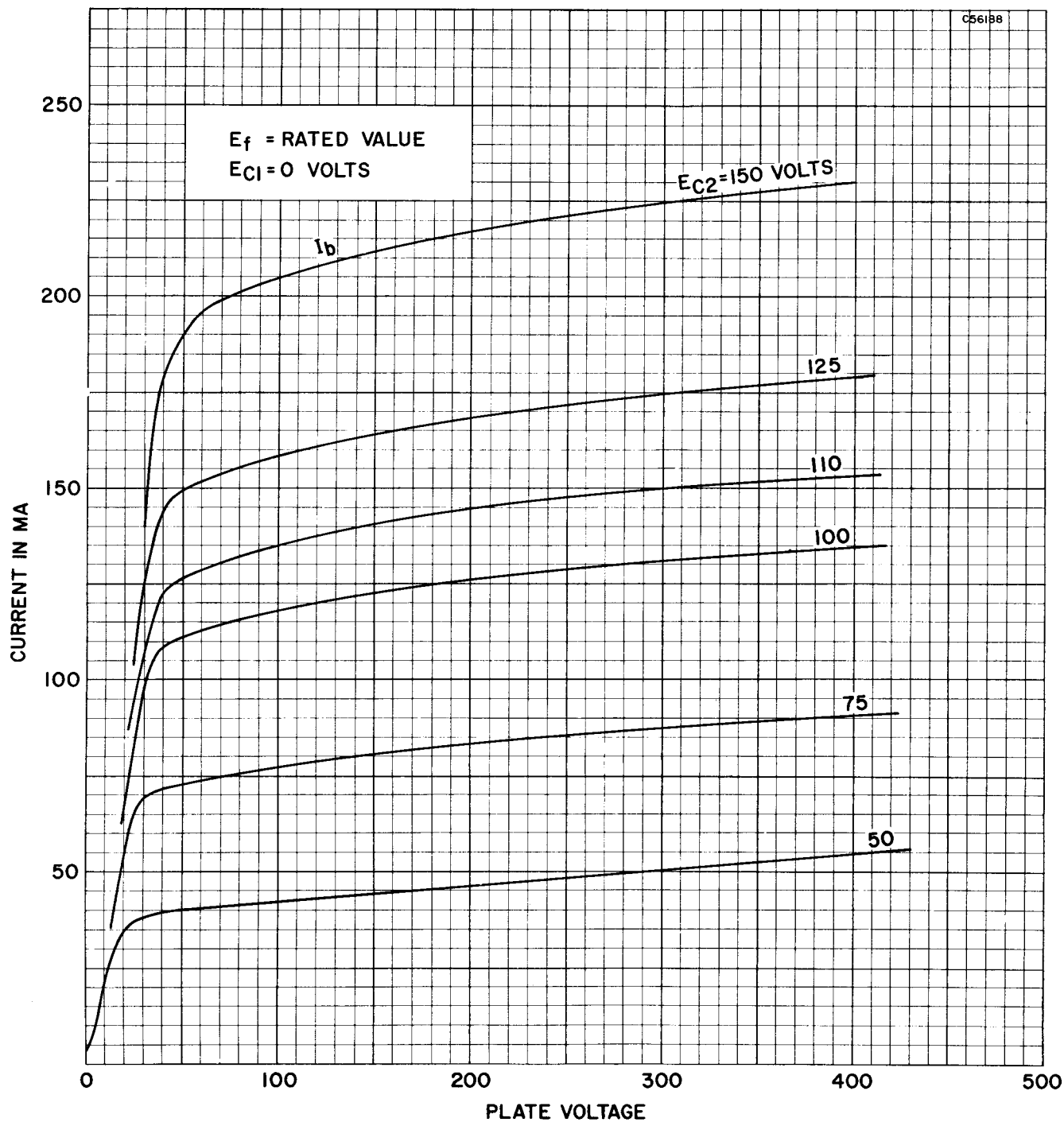
AVERAGE PLATE CHARACTERISTICS



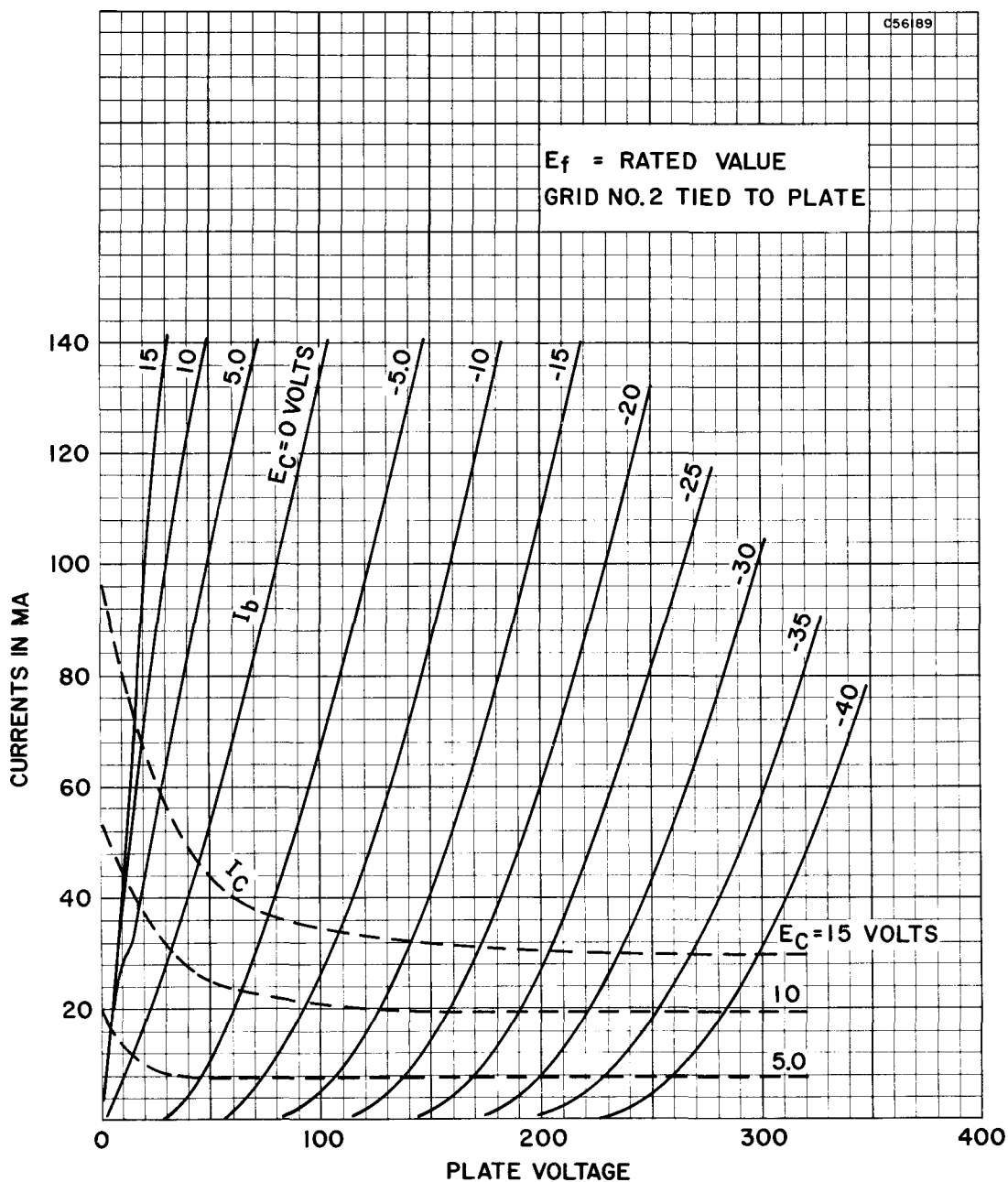
AVERAGE PLATE CHARACTERISTICS



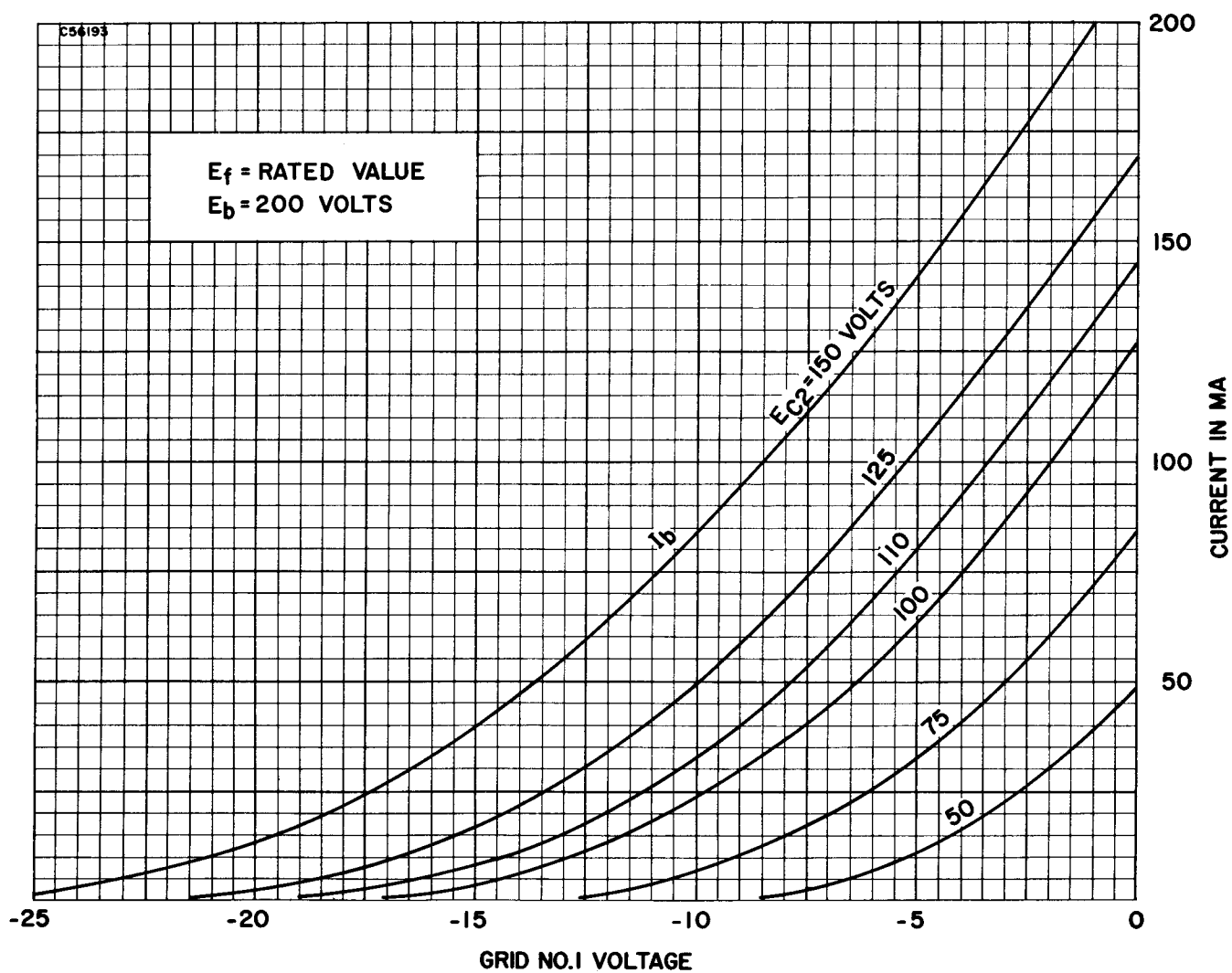
AVERAGE PLATE CHARACTERISTICS



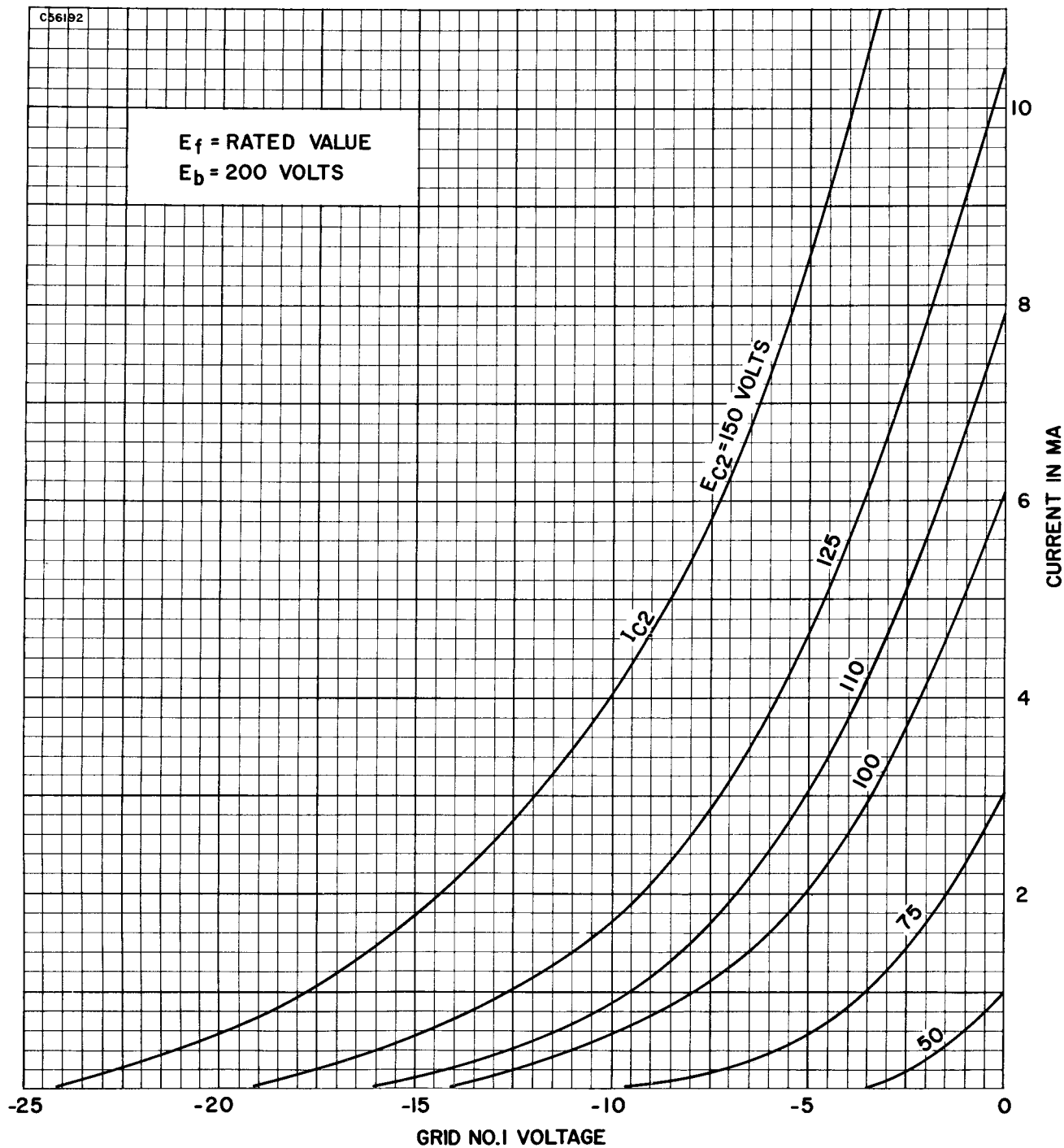
AVERAGE PLATE CHARACTERISTICS
(TRIODE CONNECTED)



AVERAGE TRANSFER CHARACTERISTICS



AVERAGE TRANSFER CHARACTERISTICS



AVERAGE TRANSFER CHARACTERISTICS
(TRIODE CONNECTED)

