

**MECHANICAL DATA**

Bulb . . . . .	T-9
Base <sup>1</sup> . . . . .	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 A<sub>1</sub> 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 A<sub>1</sub> Amplifier**

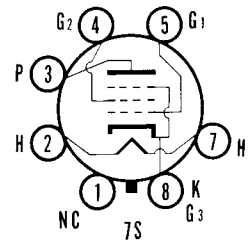
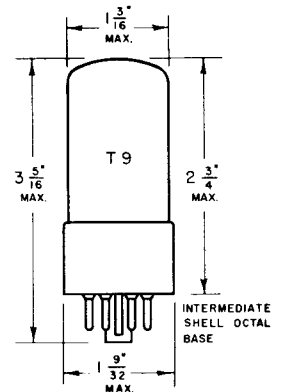
Plate Voltage . . . . .	110	200 Volts
Grid No. 2 Voltage . . . . .	110	125 Volts
Grid No. 1 Voltage . . . . .	-7.5	Volts
Cathode Bias Resistor . . . . .	180	Ohms
Peak AF Grid No. 1 Voltage . . . . .	7.5	8.5 Volts
Zero-Signal Plate Current . . . . .	49	46 Ma
Maximum-Signal Plate Current . . . . .	50	47 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 $\mu$ 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.

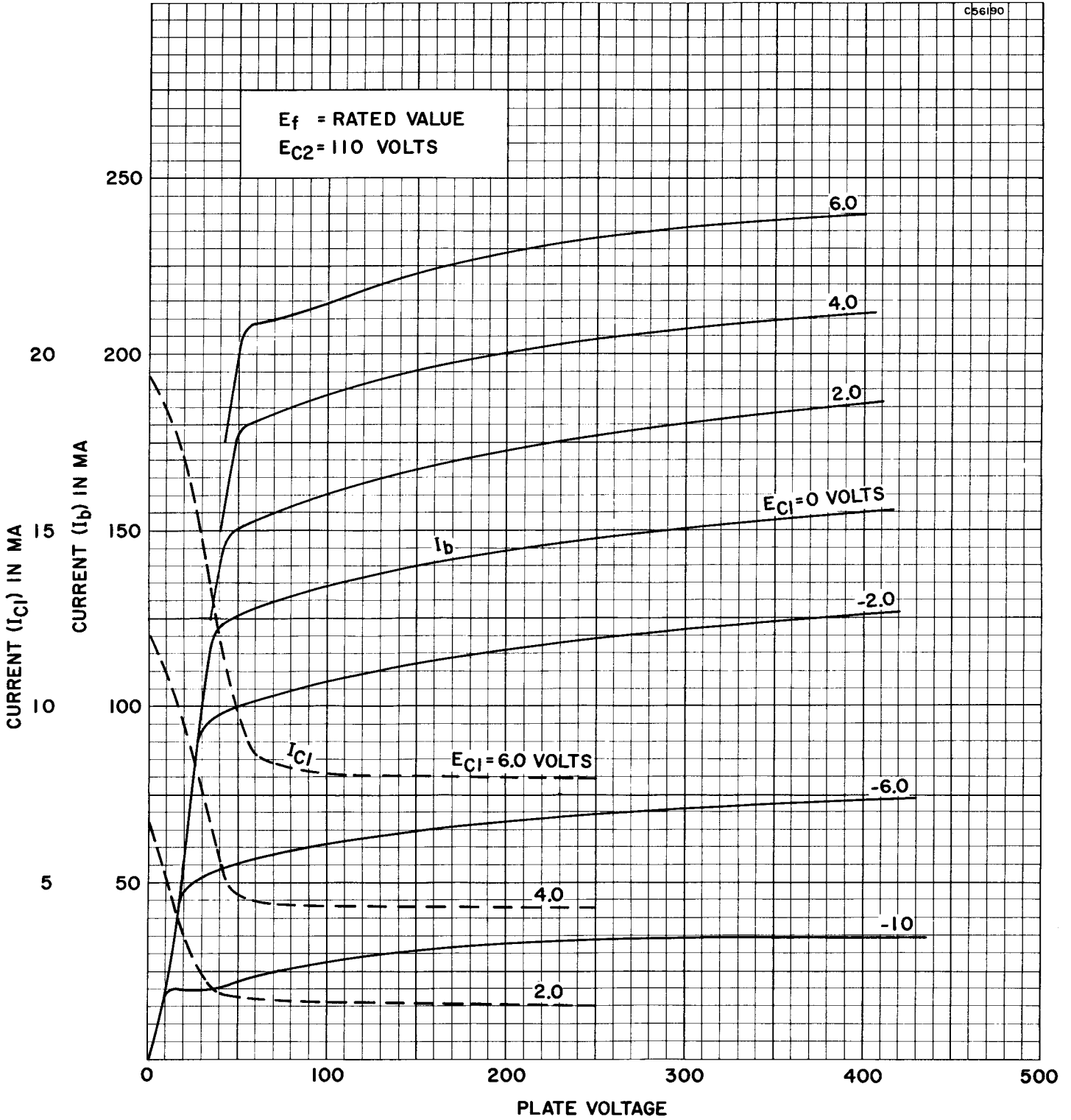


**SYLVANIA ELECTRIC PRODUCTS INC.**  
**RADIO TUBE DIVISION**  
**EMPORIUM, PA.**

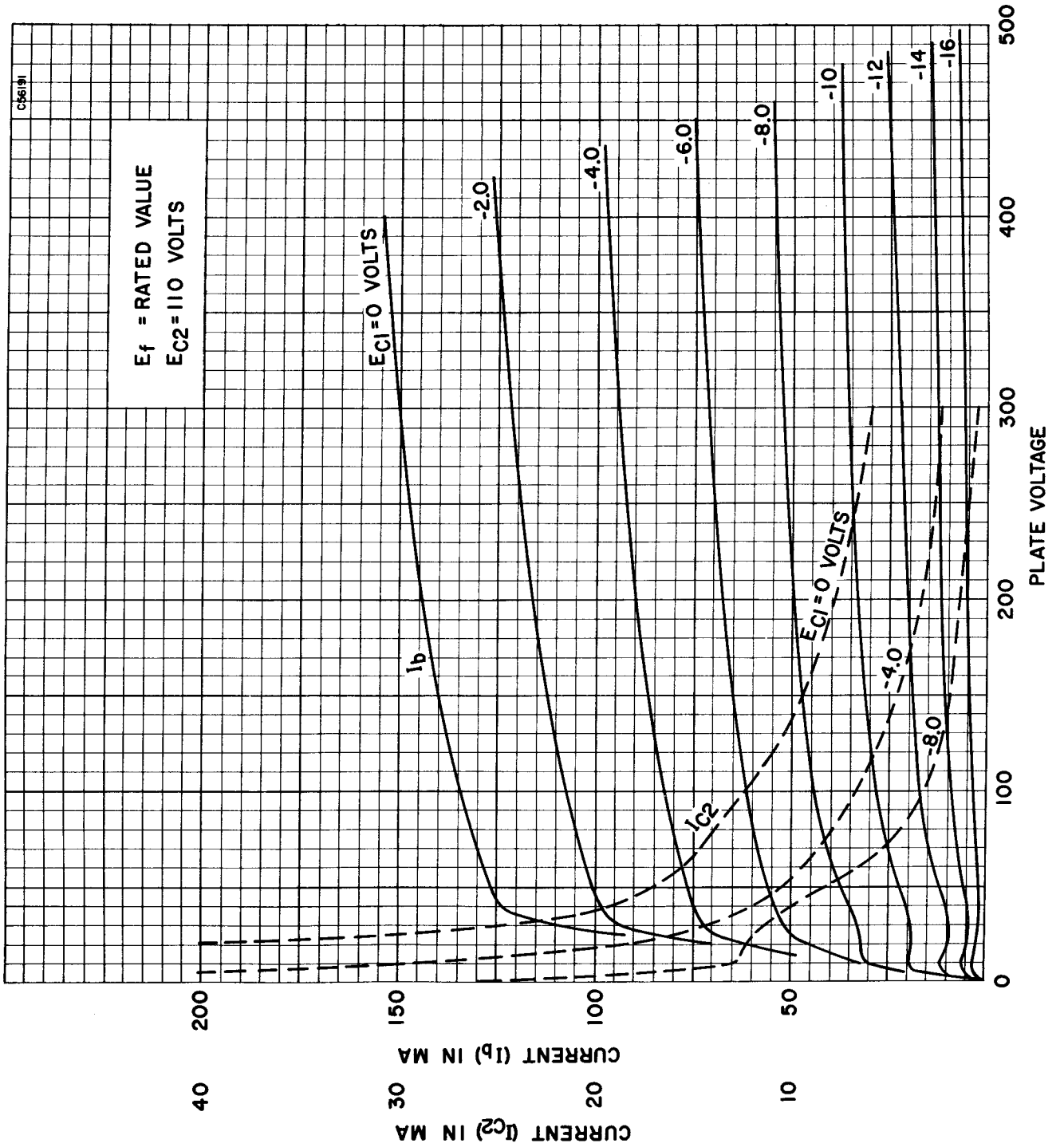
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APRIL, 1957  
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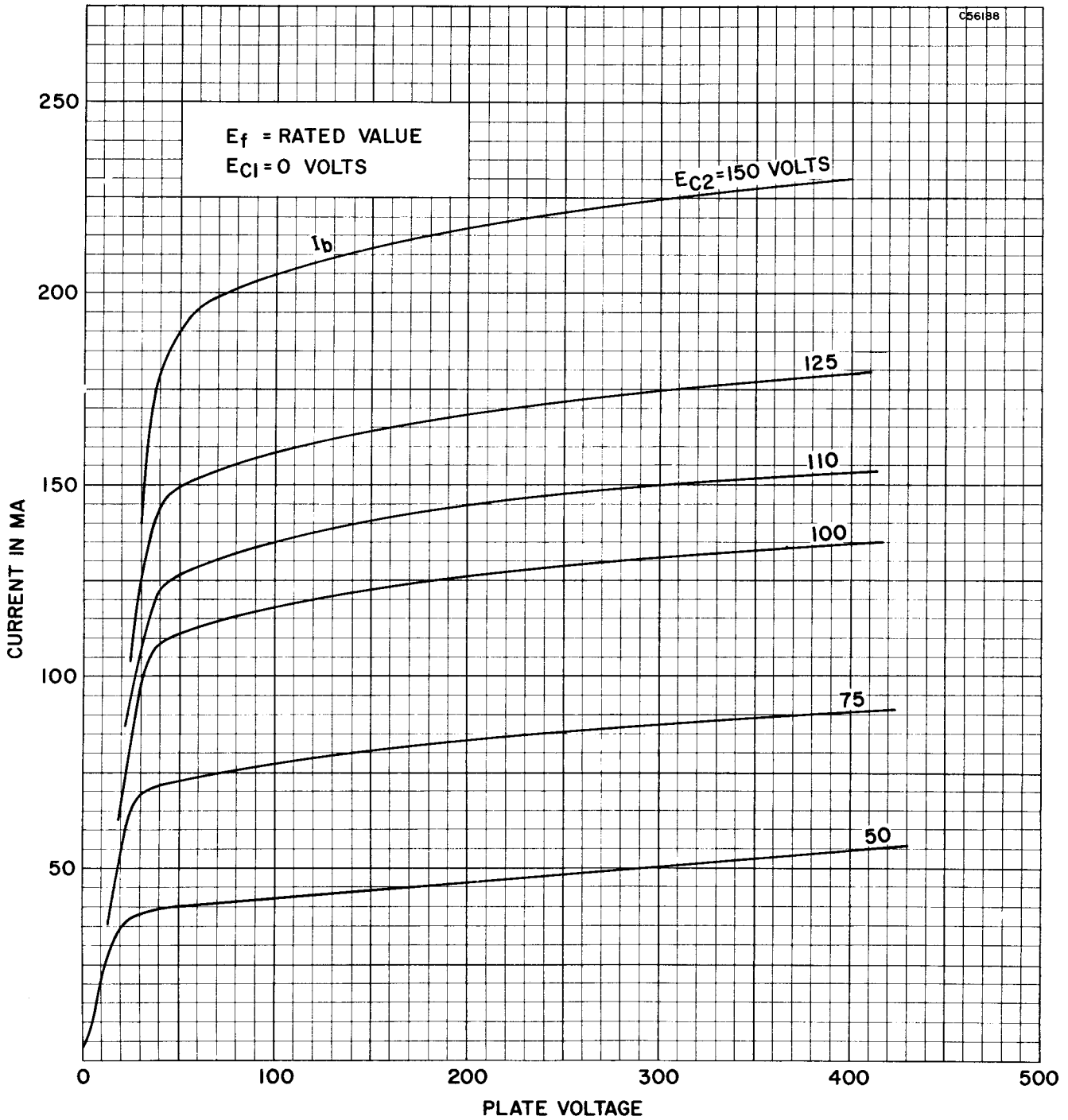
AVERAGE PLATE CHARACTERISTICS



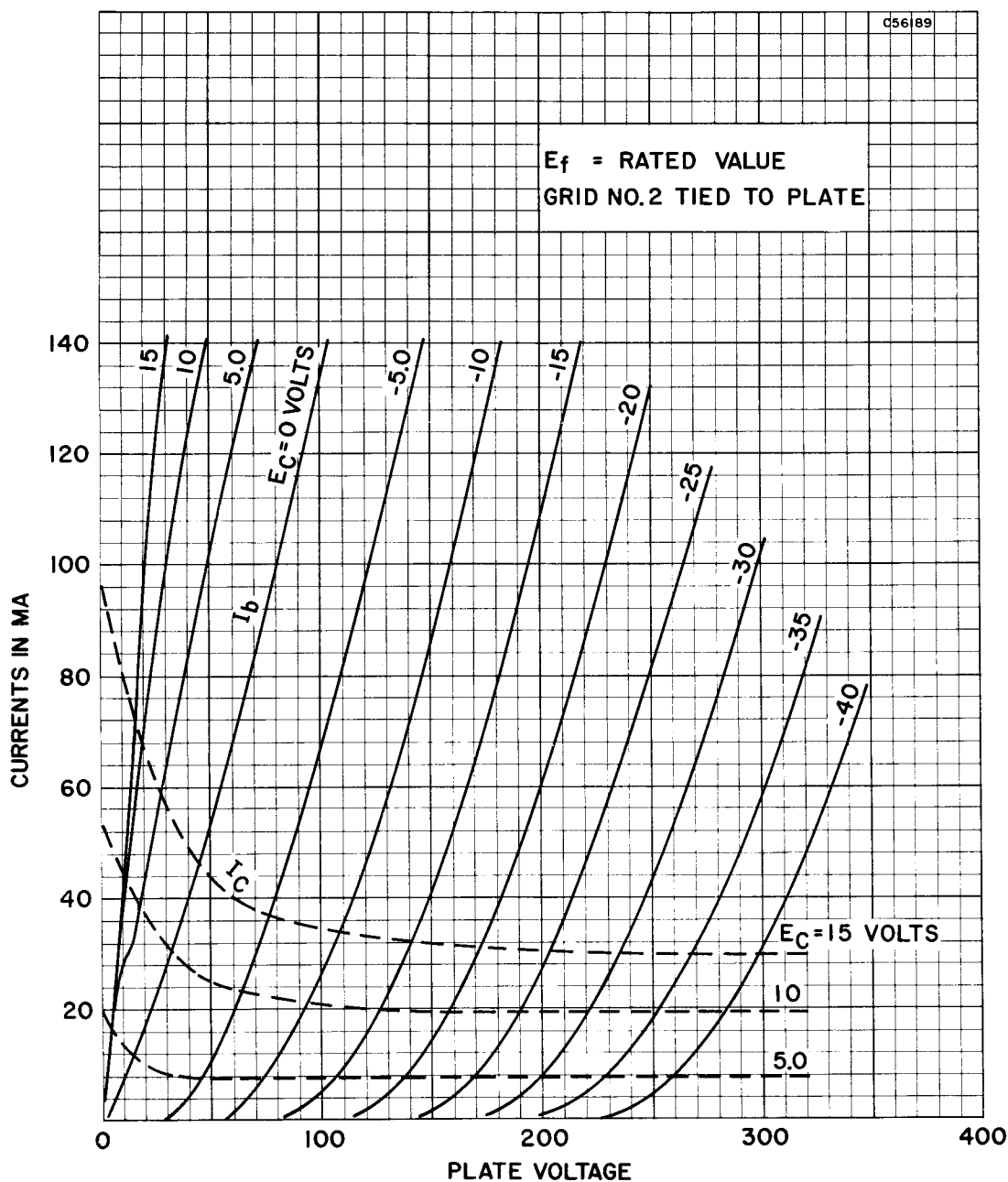
AVERAGE PLATE CHARACTERISTICS



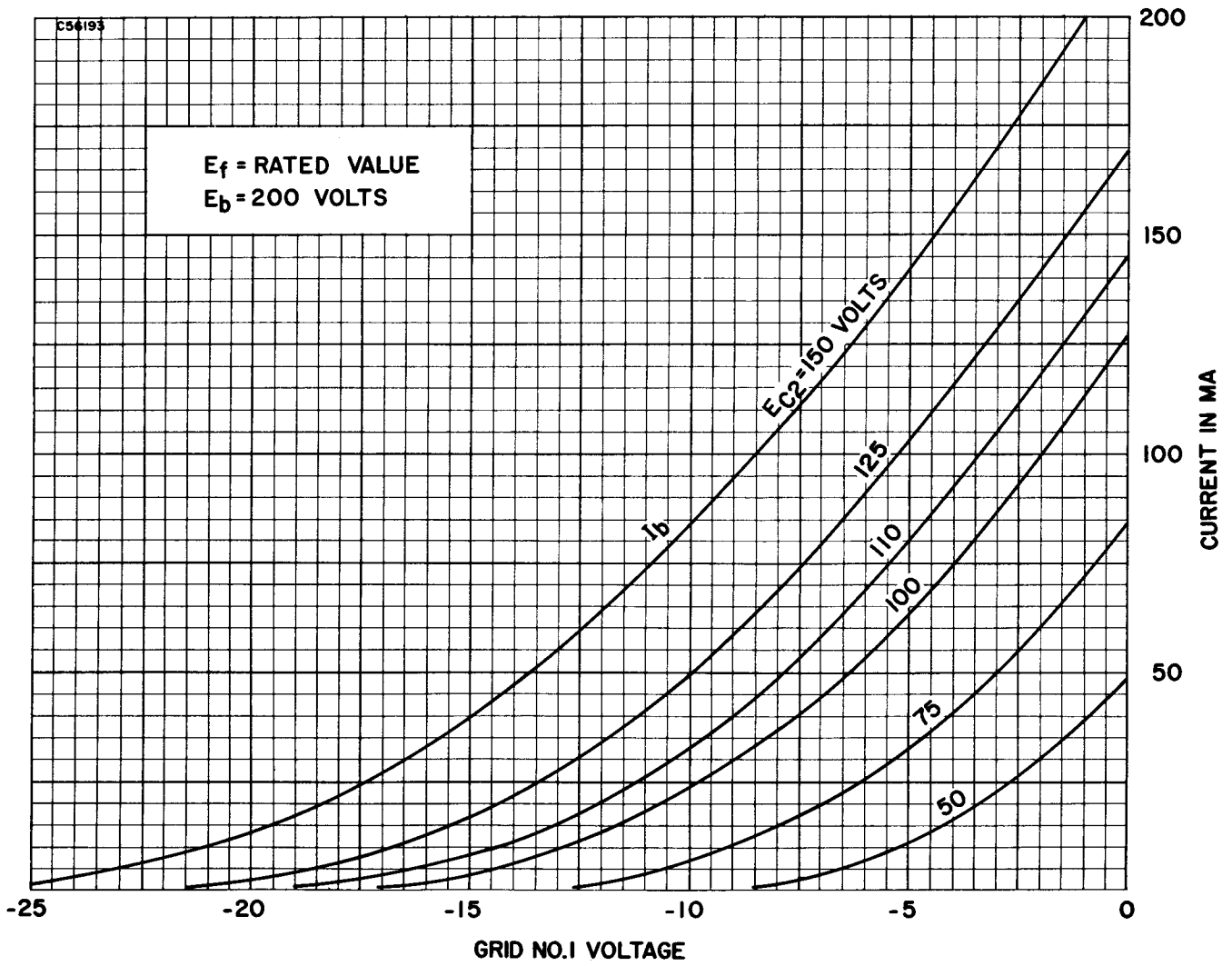
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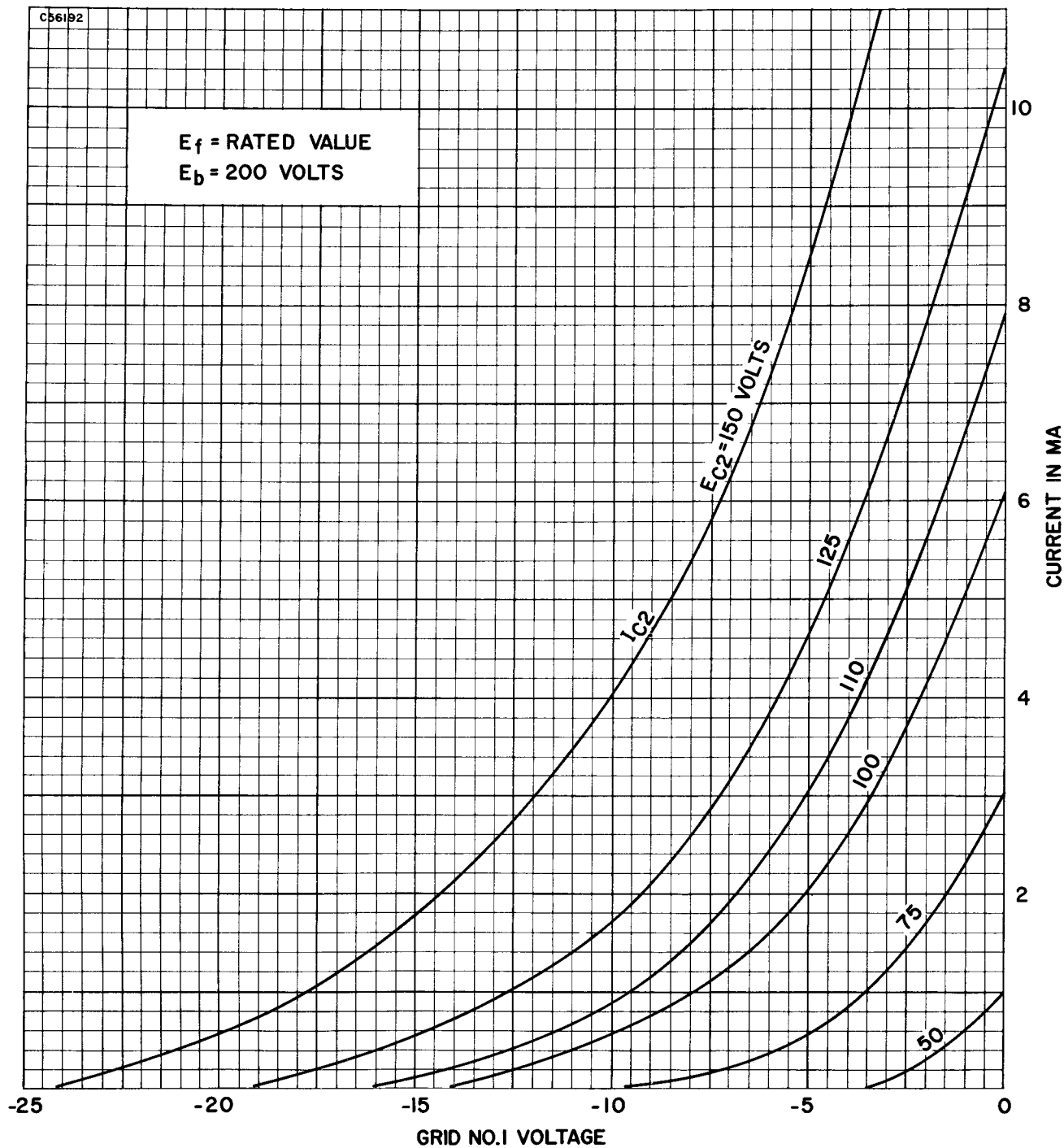
AVERAGE PLATE CHARACTERISTICS  
(TRIODE CONNECTED)



AVERAGE TRANSFER CHARACTERISTICS



## AVERAGE TRANSFER CHARACTERISTICS



## AVERAGE TRANSFER CHARACTERISTICS (TRIODE CONNECTED)

