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engineering data service 7056

MECHANICAL DATA

Bulb	T-5½
Base	E7-1, Miniature Button 7-Pin
Outline	5-2
Basing	7CM
Cathode	Coated Unipotential
Mounting Position	Any

ELECTRICAL DATA

HEATER CHARACTERISTICS

Heater Voltage Range	12-15	Volts
Heater Current at Ef = 13.5 volts	150	Ma
Heater-Cathode Voltage (Absolute Maximum Values)		
Heater Negative with Respect to Cathode	120	Volts Max.
Heater Positive with Respect to Cathode	120	Volts Max.

DIRECT INTERELECTRODE CAPACITANCES

	(Shielded)[1]	(Unshielded)	
Grid No. 1 to Plate	.01	.02	μμf Max.
Input: g1 to (h+k+g2+g3+I.S.)	6.5	6.5	μμf
Output: p to (h+k+g2+g3+I.S.)	3.0	2.0	μμf

RATINGS (Absolute Maximum Values)

Plate Voltage	330	Volts Max.
Grid No. 2 Supply Voltage	330	Volts Max.
Grid No. 2 Voltage	See Rating Chart	
Plate Dissipation	2.0	Watts Max.
Grid No. 2 Input:		
For Grid No. 2 Voltages up to 165 Volts	0.5	Watt Max.
For Grid No. 2 Voltages between 165-330 Volts	See Rating Chart	

CHARACTERISTICS

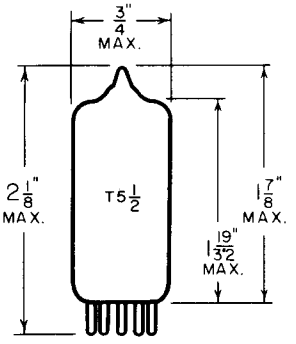
Class A1 Amplifier

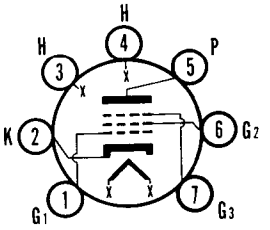
Plate Voltage	200	Volts
Grid No. 3 Voltage	Connected to Cathode	
Grid No. 2 Voltage	150	Volts
Cathode Bias Resistor	180	Ohms
Plate Current	9.5	Ma
Grid No. 2 Current	2.8	Ma
Transconductance	6200	μmhos
Plate Resistance (Approx.)	0.6	Megohm
Ec1 for I_b = 100 μa (Approx.)	−7	Volts

QUICK REFERENCE DATA

The Sylvania Type 7056 is a miniature, high transconductance, sharp-cutoff pentode intended for use in mobile communications equipment. Featuring a 13.5 volt heater, the 7056 is designed for dependable operation over the wide range of heater voltages encountered in this service.

Except for heater characteristics, the Type 7056 is similar to the 6CB6.





7CM

SYLVANIA
ELECTRONIC TUBES
A Division of
Sylvania Electric Products Inc.
RECEIVING TUBE
OPERATIONS
EMPORIUM, PA.

Prepared and Released By The
TECHNICAL PUBLICATIONS SECTION
EMPORIUM, PENNSYLVANIA

NOVEMBER, 1959

File Under
RECEIVING TUBES

SPECIAL TESTS

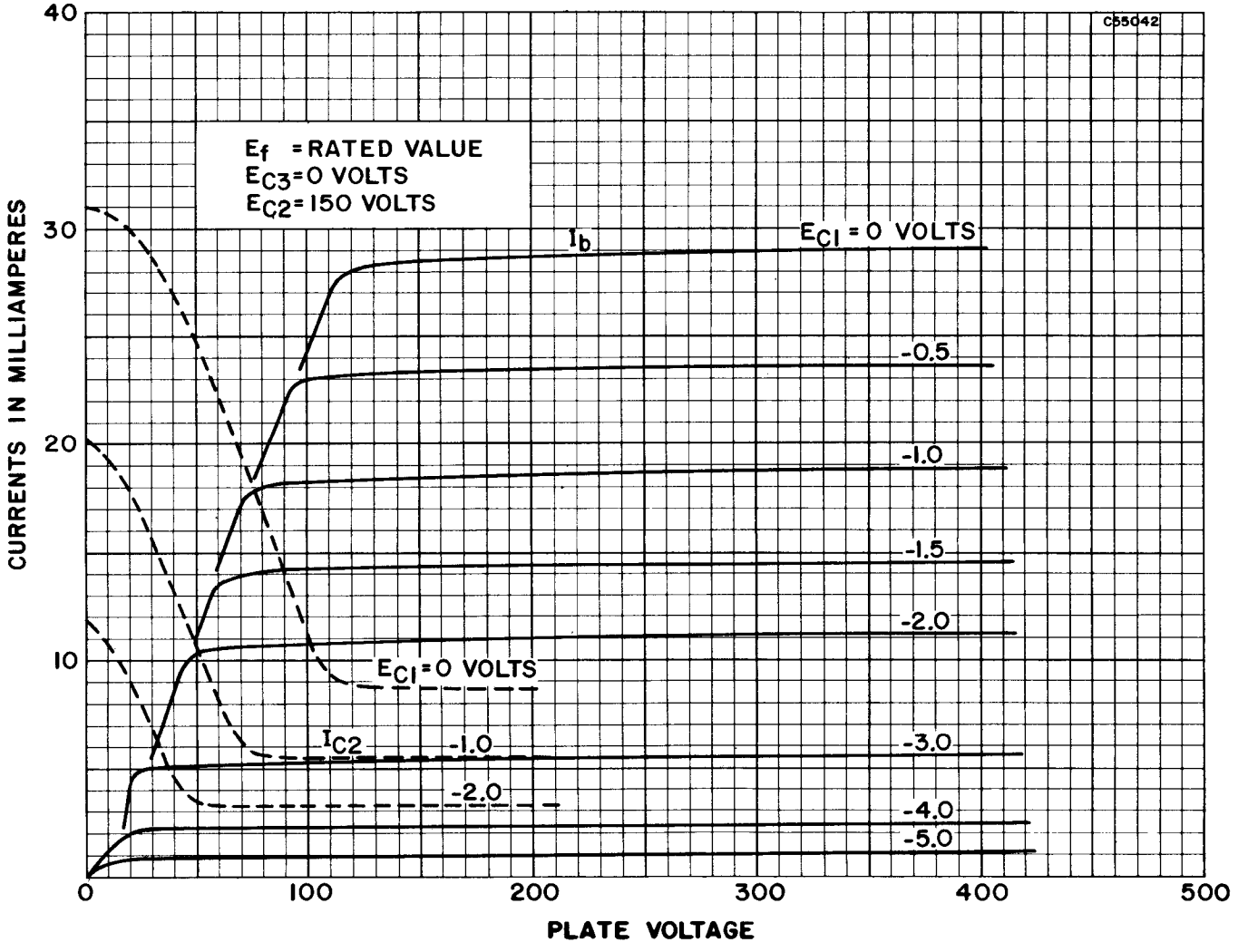
Heater Cycling Life Test
Ef = 17.0 V; 1 min. on, 4 min. off;
Ehk = –150 Vdc . . . . . 2000 Cycles Min.

Low-Frequency Vibration: Ep
G = 2.5 @ 25 cps . . . . . 250 mVac Max.

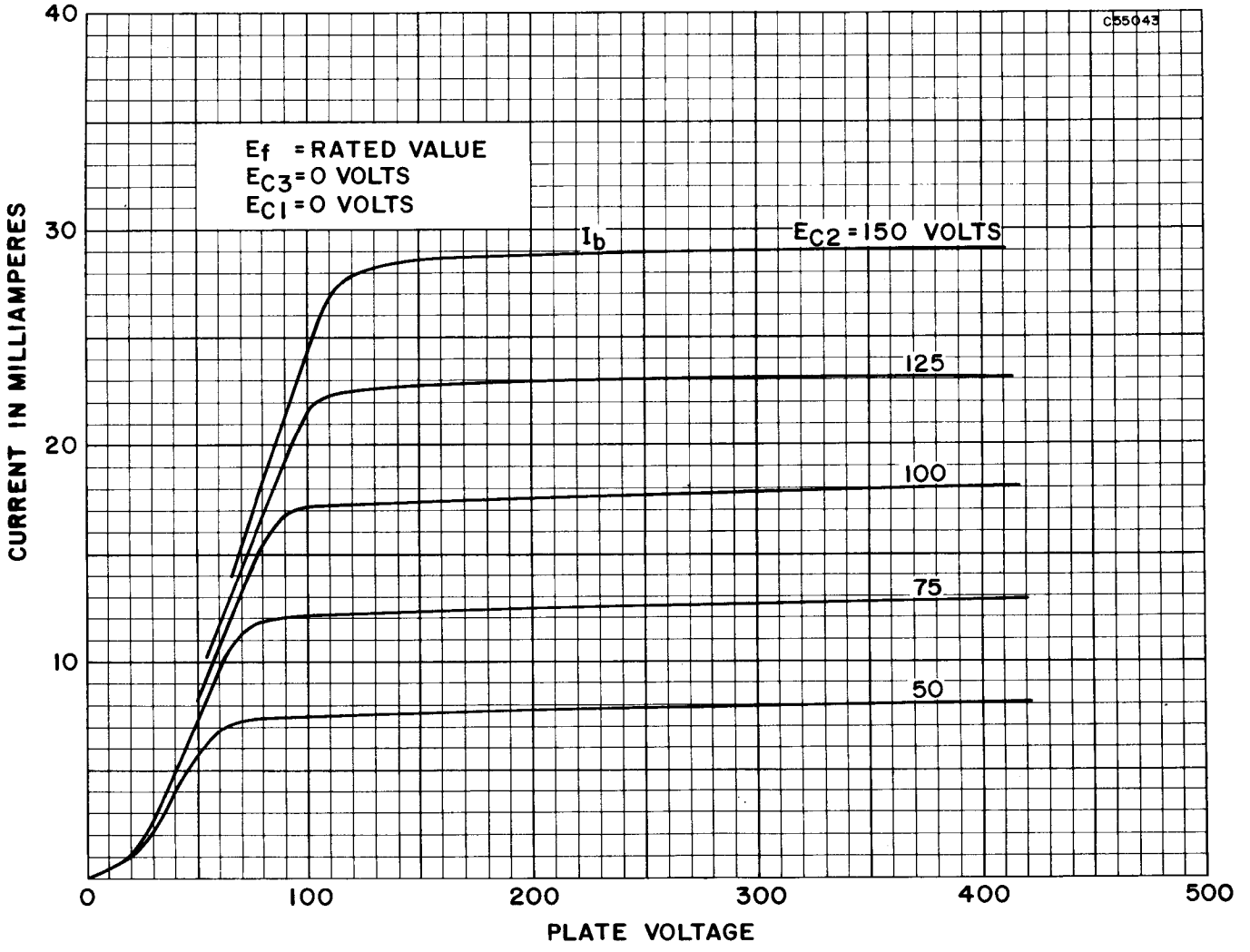
NOTE:

1. Shield No. 315 tied to cathode.

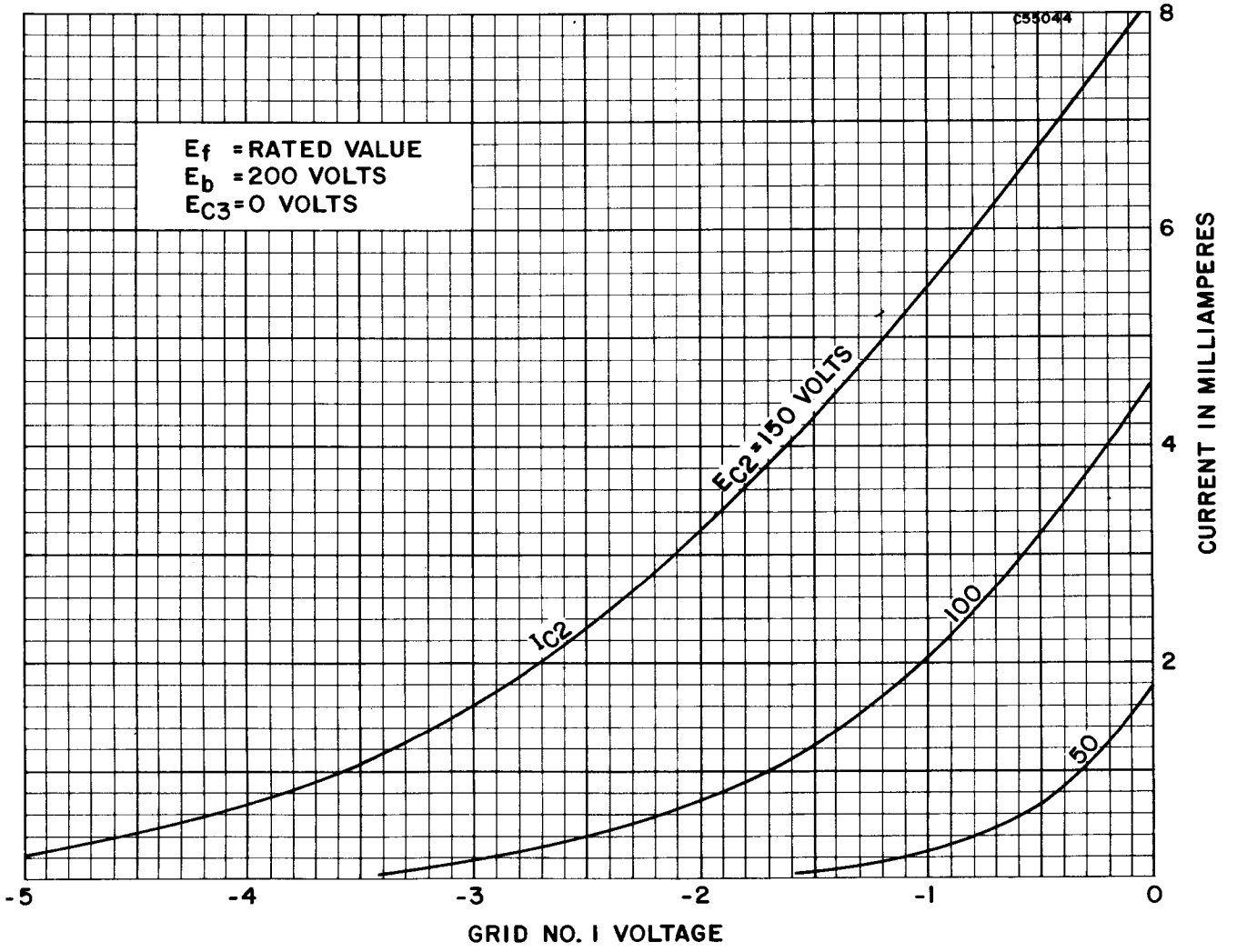
AVERAGE PLATE CHARACTERISTICS



AVERAGE PLATE CHARACTERISTICS



AVERAGE TRANSFER CHARACTERISTICS



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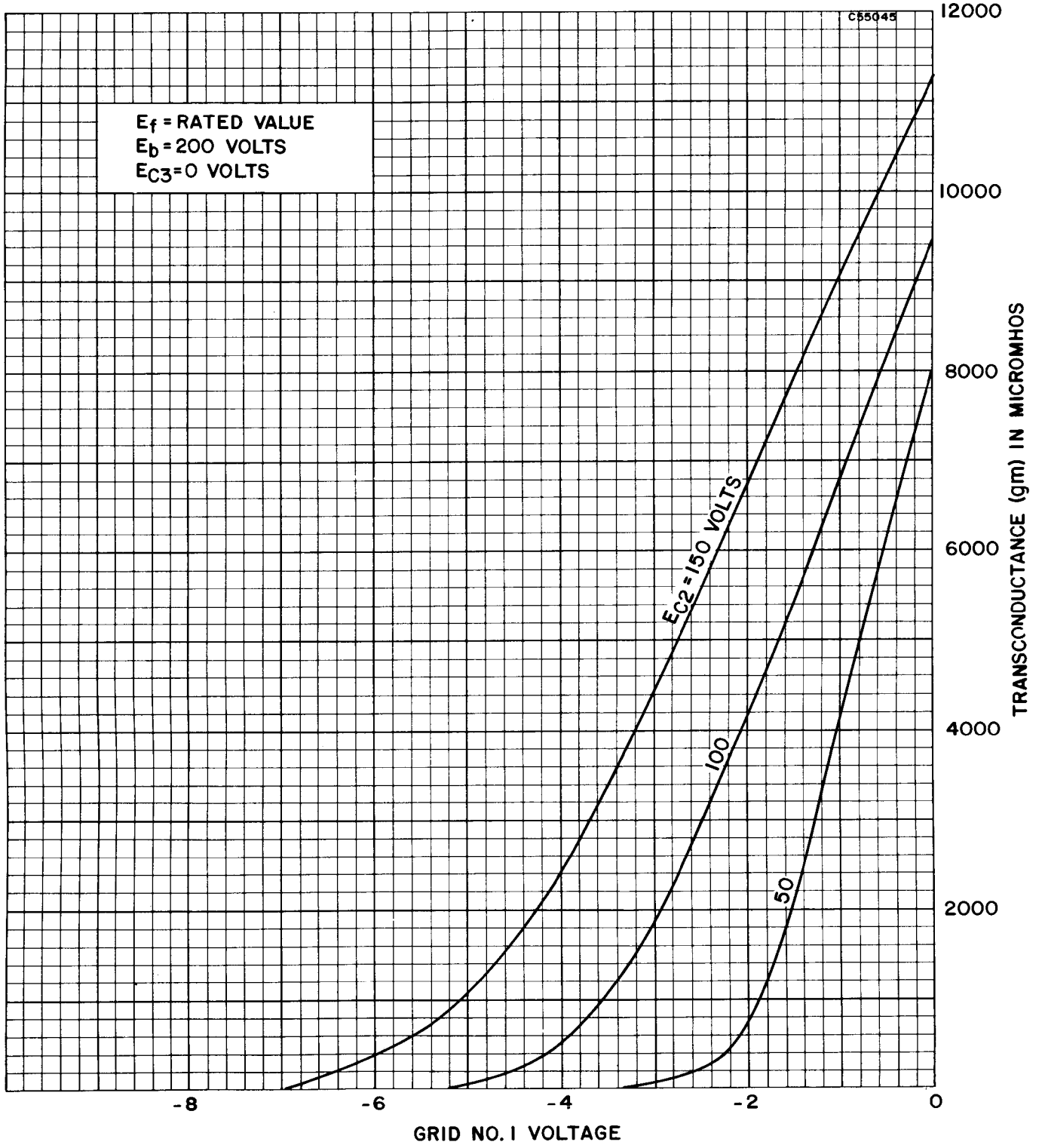

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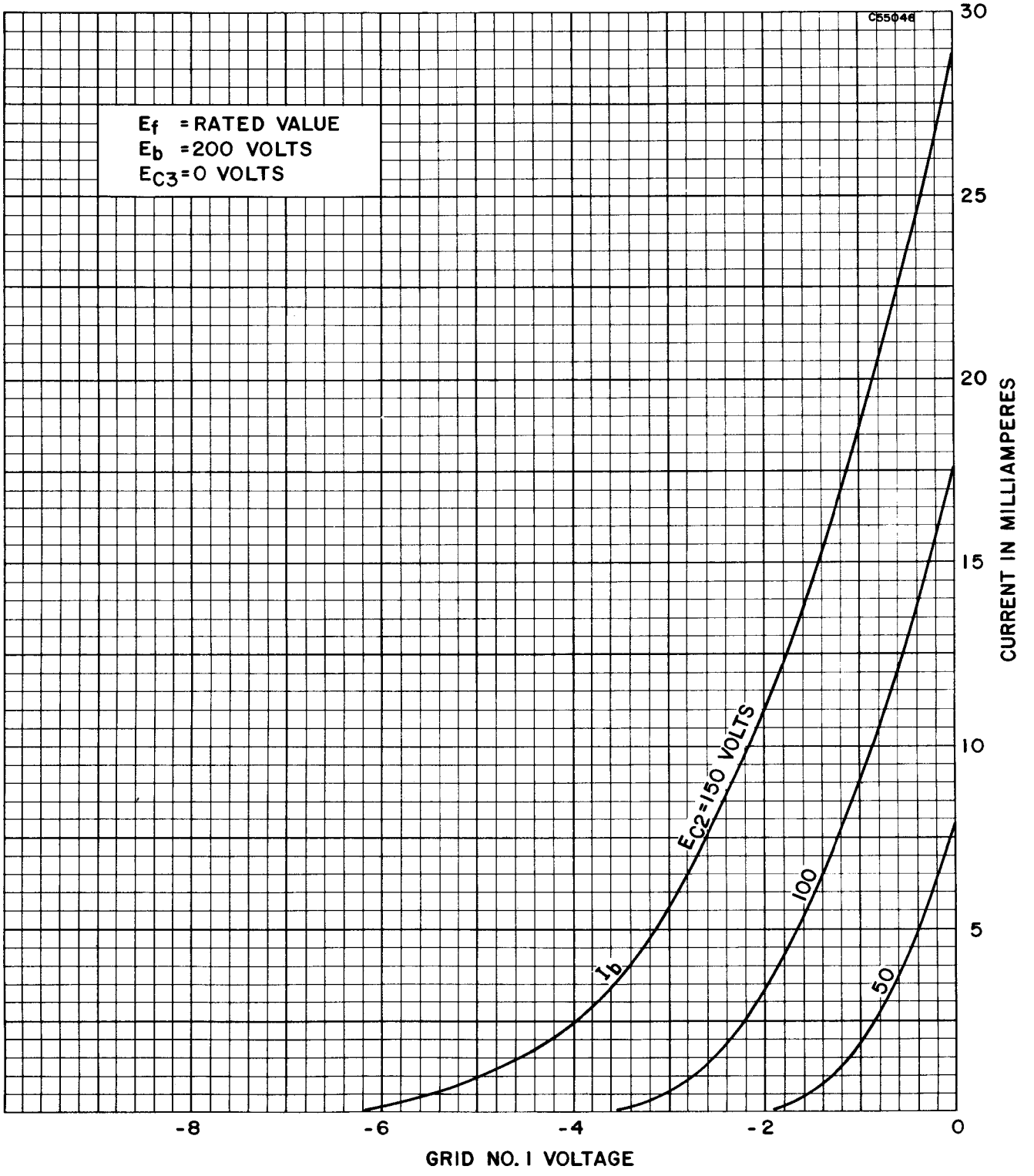

RATING CHART