

## MECHANICAL DATA

|                             |                              |
|-----------------------------|------------------------------|
| Bulb . . . . .              | T-51½                        |
| 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 $E_f = 13.5$ 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) <sup>1</sup> | (Unshielded)      |      |
|------------------------------------------------|-------------------------|-------------------|------|
| Grid No. 1 to Plate . . . . .                  | .01                     | .02 $\mu\text{f}$ | Max. |
| Input: $g_1$ to $(h+k+g_2+g_3+I.S.)$ . . . . . | 6.5                     | 6.5 $\mu\text{f}$ |      |
| Output: $p$ to $(h+k+g_2+g_3+I.S.)$ . . . . .  | 3.0                     | 2.0 $\mu\text{f}$ |      |

### 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<br>165-330 Volts . . . . . | See Rating Chart |      |

### CHARACTERISTICS

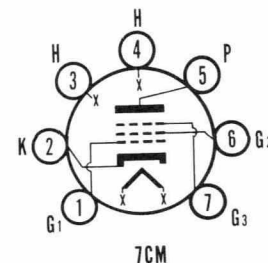
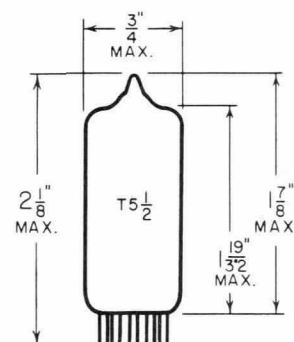
#### Class A1 Amplifier

|                                                          |                       |
|----------------------------------------------------------|-----------------------|
| 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 $\mu\text{mhos}$ |
| Plate Resistance (Approx.) . . . . .                     | 0.6 Megohm            |
| $E_{c1}$ for $I_b = 100 \mu\text{a}$ (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.



## SYLVANIA ELECTRONIC TUBES

A Division of  
Sylvania Electric Products Inc.

## RECEIVING TUBE OPERATIONS EMPORIUM, PA.

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EMPORIUM, PENNSYLVANIA

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File Under  
RECEIVING TUBES

# SPECIAL TESTS

## Heater Cycling Life Test

$E_f = 17.0 \text{ V}$ ; 1 min. on, 4 min. off;

$E_{hk} = -150 \text{ Vdc}$  . . . . . 2000 Cycles Min.

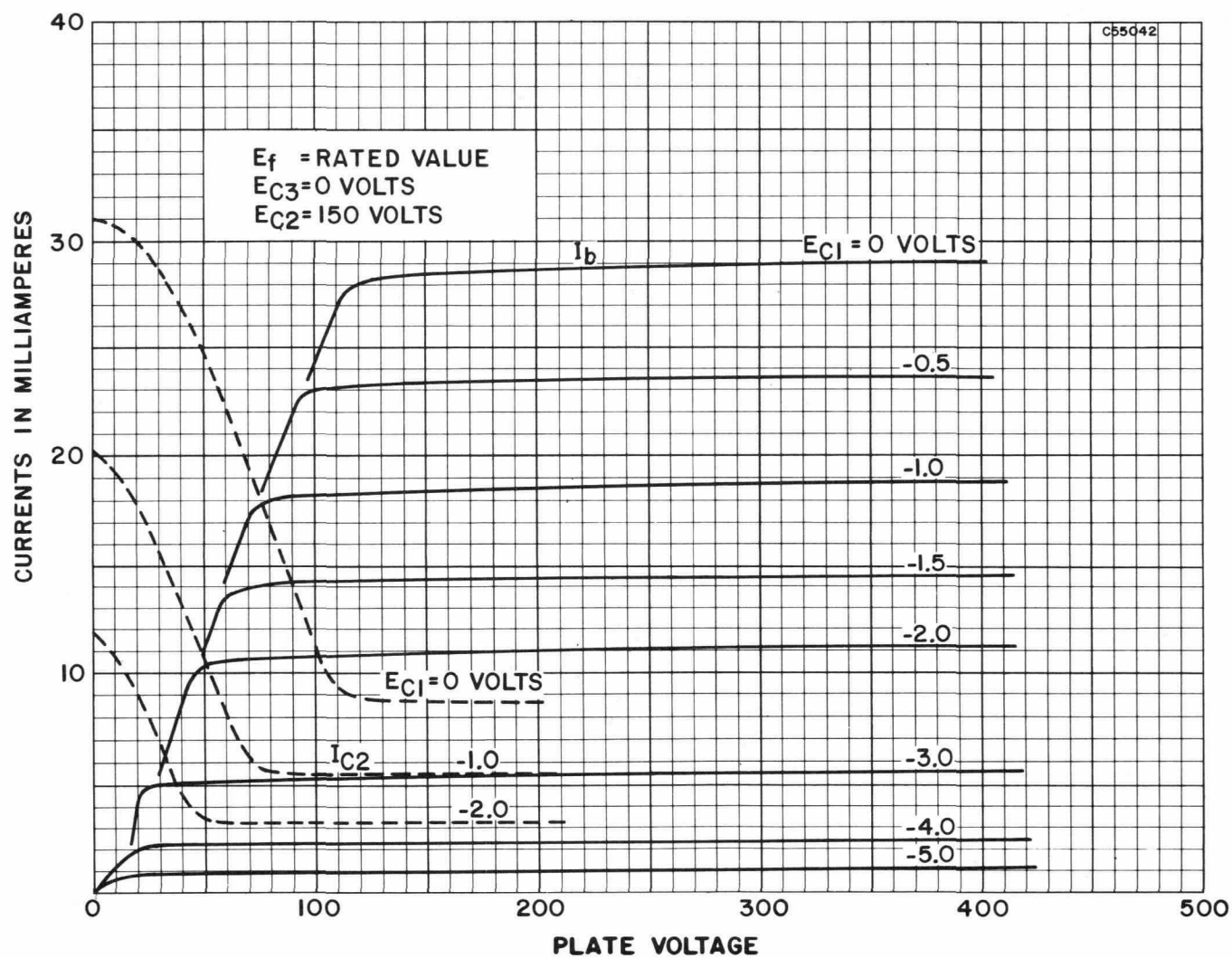
## Low-Frequency Vibration: $E_p$

$G = 2.5 @ 25 \text{ cps}$  . . . . . 250 mVac Max.

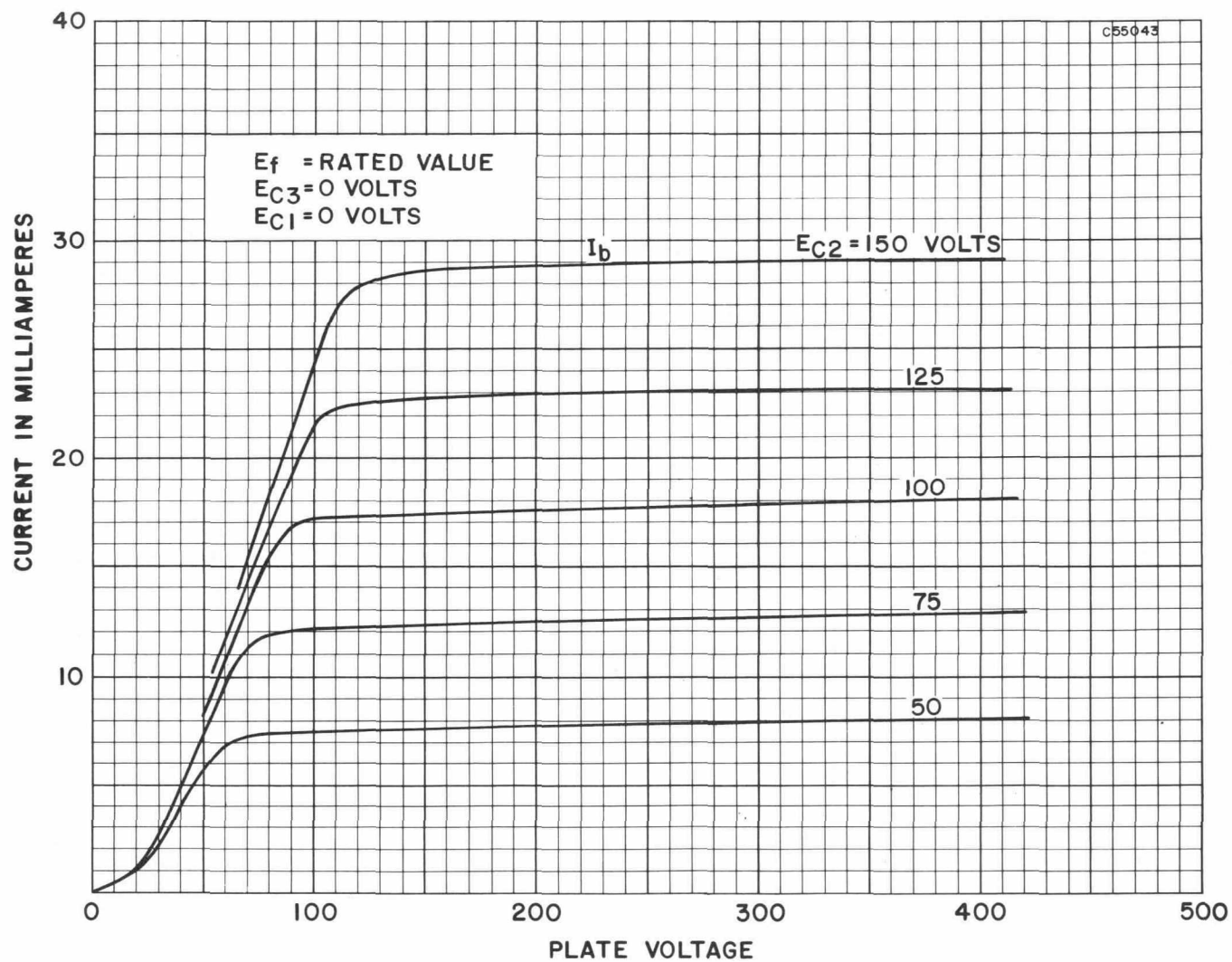
# NOTE:

1. Shield No. 315 tied to cathode.

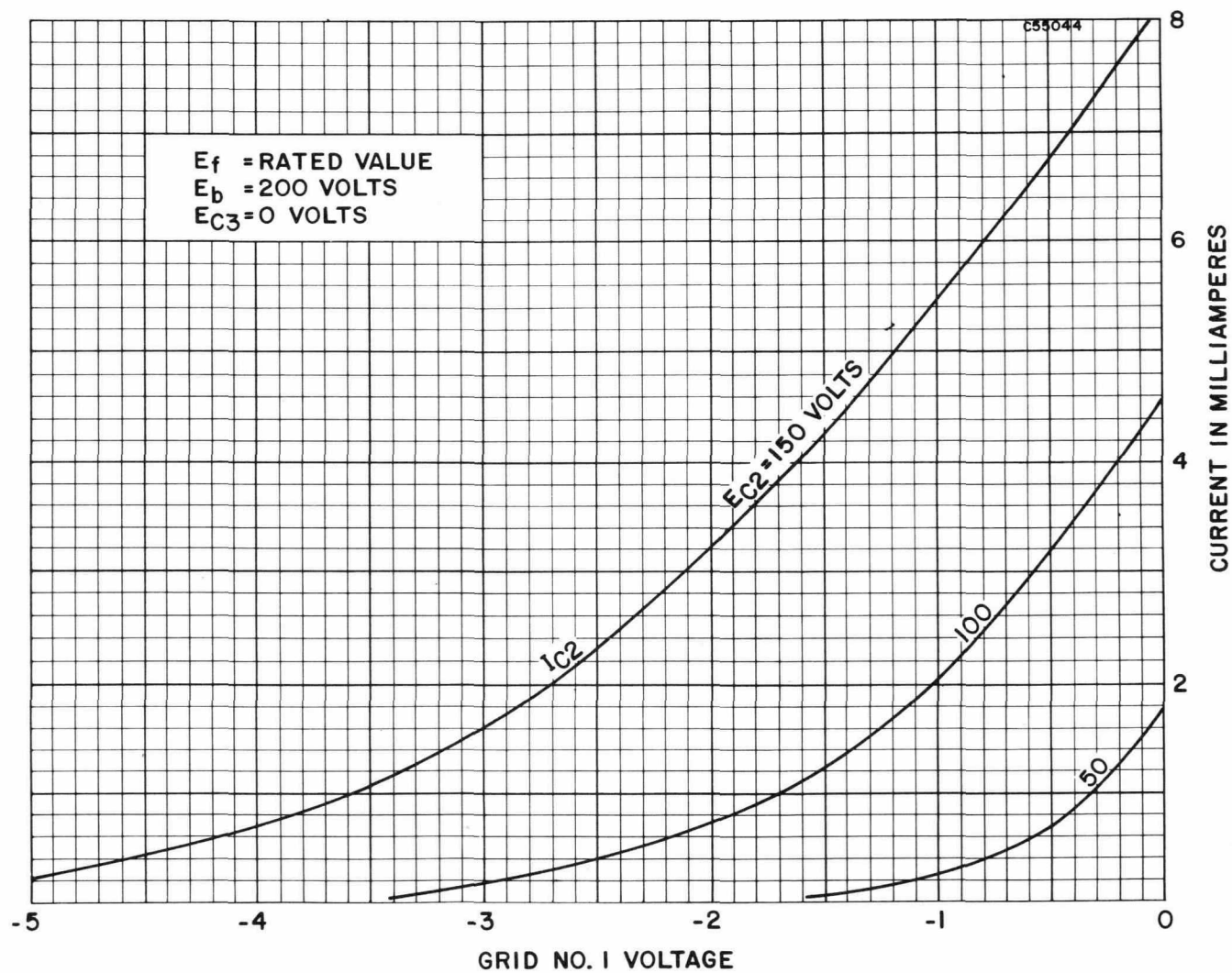
## AVERAGE PLATE CHARACTERISTICS



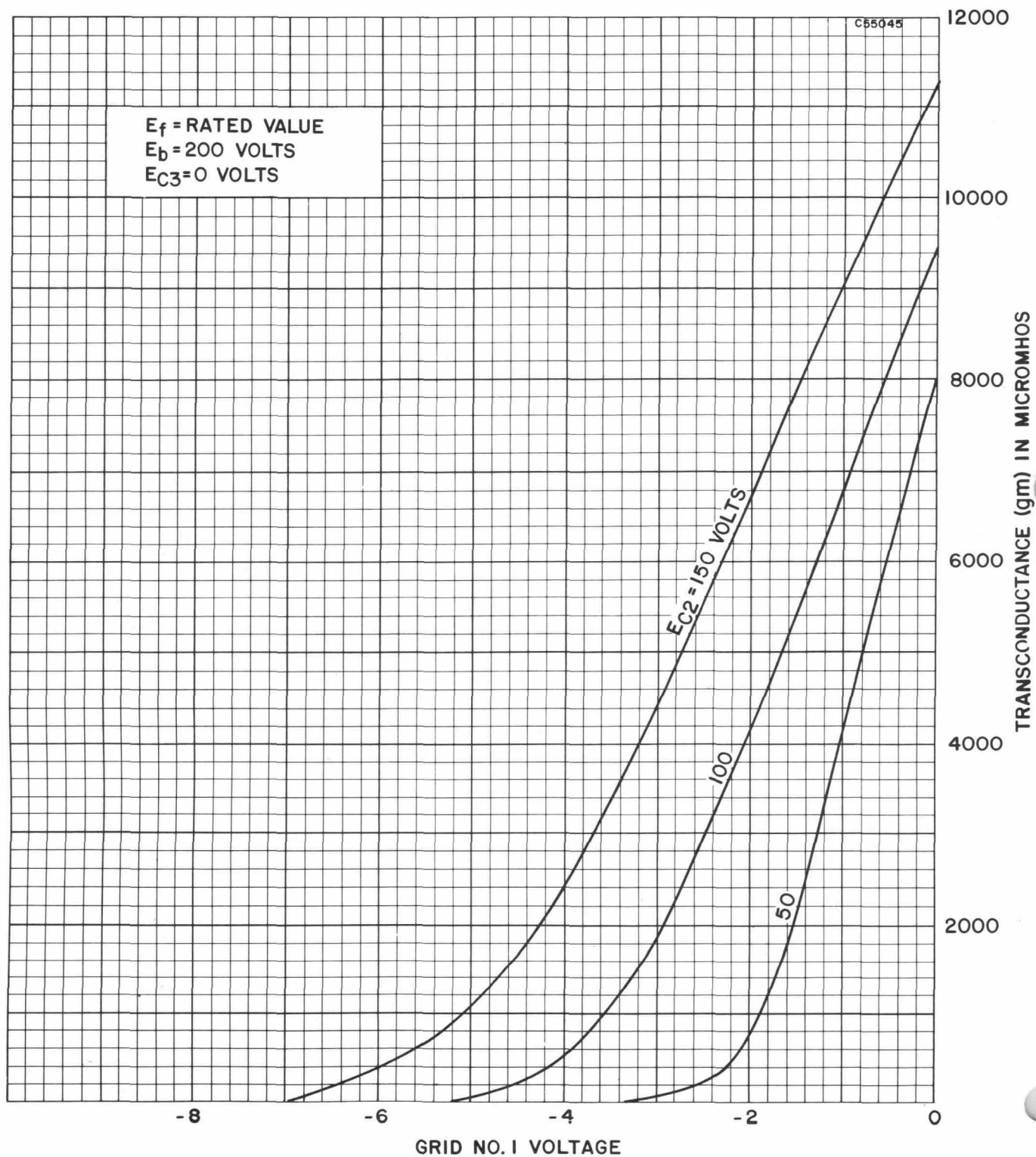
AVERAGE PLATE CHARACTERISTICS



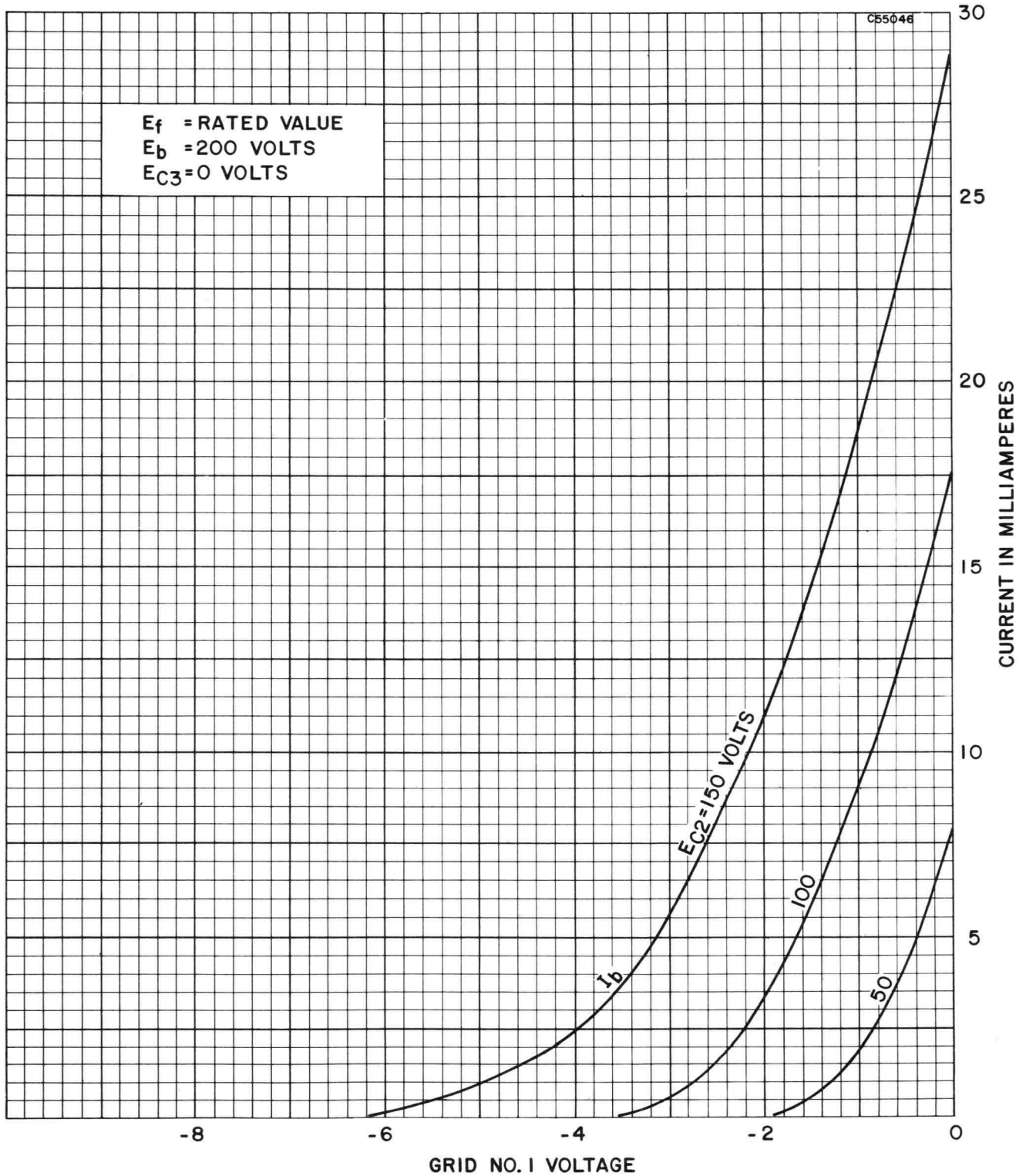
## AVERAGE TRANSFER CHARACTERISTICS



## AVERAGE TRANSFER CHARACTERISTICS



AVERAGE TRANSFER CHARACTERISTICS



## RATING CHART

C53053

