

MECHANICAL DATA

| | |
|-----------------------------|--------------------------|
| Bulb | T-6½ |
| Base | E9-1, Small Button 9-Pin |
| Outline | 6-2 |
| Basing | 9ED |
| Cathode | Unipotential |
| Mounting Position | Any |

ELECTRICAL DATA

HEATER CHARACTERISTICS

| | |
|---|----------------|
| Heater Voltage (A C or D C) | 6.3 Volts |
| Heater Current | 450 Ma |
| Heater-Cathode Voltage (Design Center Values) | |
| Heater Negative with Respect to Cathode | |
| Total D C and Peak | 200 Volts Max. |
| Heater Positive with Respect to Cathode | |
| D C | 100 Volts Max. |
| Total D C and Peak | 200 Volts Max. |

DIRECT INTERELECTRODE CAPACITANCES (Unshielded)

| | |
|--|---------------|
| Triode Section | |
| Grid to Plate | 1.7 μf |
| Grid to (h & i.s. + k) | 2.0 μf |
| Plate to (h & i.s. + k) | 1.7 μf |
| Pentode Section | |
| Grid No. 1 to Plate | 0.02 μf Max. |
| Grid No. 1 to (h & i.s. & g3 + g2 + k) | 6.5 μf |
| Plate to (h & i.s. & g3 + g2 + k) | 2.2 μf |
| Triode Grid to Pentode Plate | 0.027 μf Max. |
| Pentode Grid No. 1 to Triode Plate | 0.020 μf Max. |
| Pentode Plate to Triode Plate | 0.045 μf Max. |

RATINGS (Design Center Values)

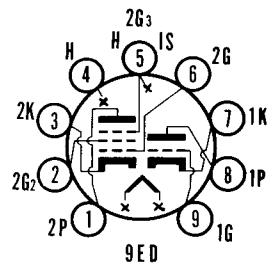
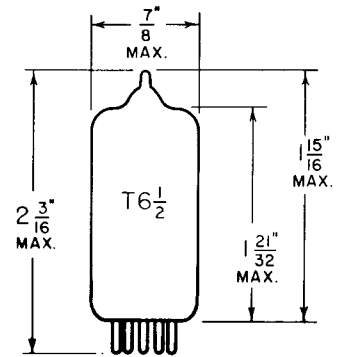
| | Triode | Pentode | |
|---|------------------|-------------|------|
| Plate Voltage | 300 | 300 Volts | Max. |
| Grid No. 2 Supply Voltage | | 300 Volts | Max. |
| Grid No. 2 Voltage | See Rating Chart | | |
| Grid No. 1 Voltage: Positive Bias Value | 0 | 0 Volts | |
| Plate Dissipation | 2.5 | 2.0 Watts | Max. |
| Grid No. 2 Input: For Grid No. 2 Voltages up to 150 Volts | | 0.5 Watt | Max. |
| For Grid No. 2 Voltages Between 150 and 300 Volts | See Rating Chart | | |
| Maximum Circuit Values¹ | | | |
| Cathode Bias | 1.0 | 1.0 Megohm | Max. |
| Fixed Bias | 0.5 | 0.25 Megohm | Max. |

CHARACTERISTICS AND TYPICAL OPERATION

| | Triode | Pentode ² |
|--|--------|----------------------|
| Class A ₁ Amplifier | | |
| Plate Supply Voltage | 200 | 200 Volts |
| Grid No. 2 Supply Voltage | | 150 Volts |
| Grid No. 1 Voltage | -6 | Volts |
| Cathode Bias Resistor | | 180 Ohms |
| Amplification Factor | 19 | |
| Plate Resistance (approx.) | 5750 | 300,000 Ohms |
| Transconductance | 3300 | 6000 μmhos |
| Grid No. 1 Voltage (approx.) for Plate Current of 10 μa | -19 | Volts |
| Grid No. 1 Voltage (approx.) for Transconductance of 100 μmhos | | -12.5 Volts |
| Plate Current | 13 | 9.5 Ma |
| Grid No. 2 Current | | 3 Ma |

QUICK REFERENCE DATA

The 6AZ8 is a miniature medium mu triode and semi-remote cut-off pentode designed for application in television receivers. The triode is well suited for operation as a sync separator, sync clipper, low frequency oscillator and phase splitter. The pentode may be used as an i f amplifier, video amplifier, a g c amplifier, and reactance tube.



SYLVANIA ELECTRIC PRODUCTS INC.

RADIO TUBE DIVISION EMPORIUM, PA.

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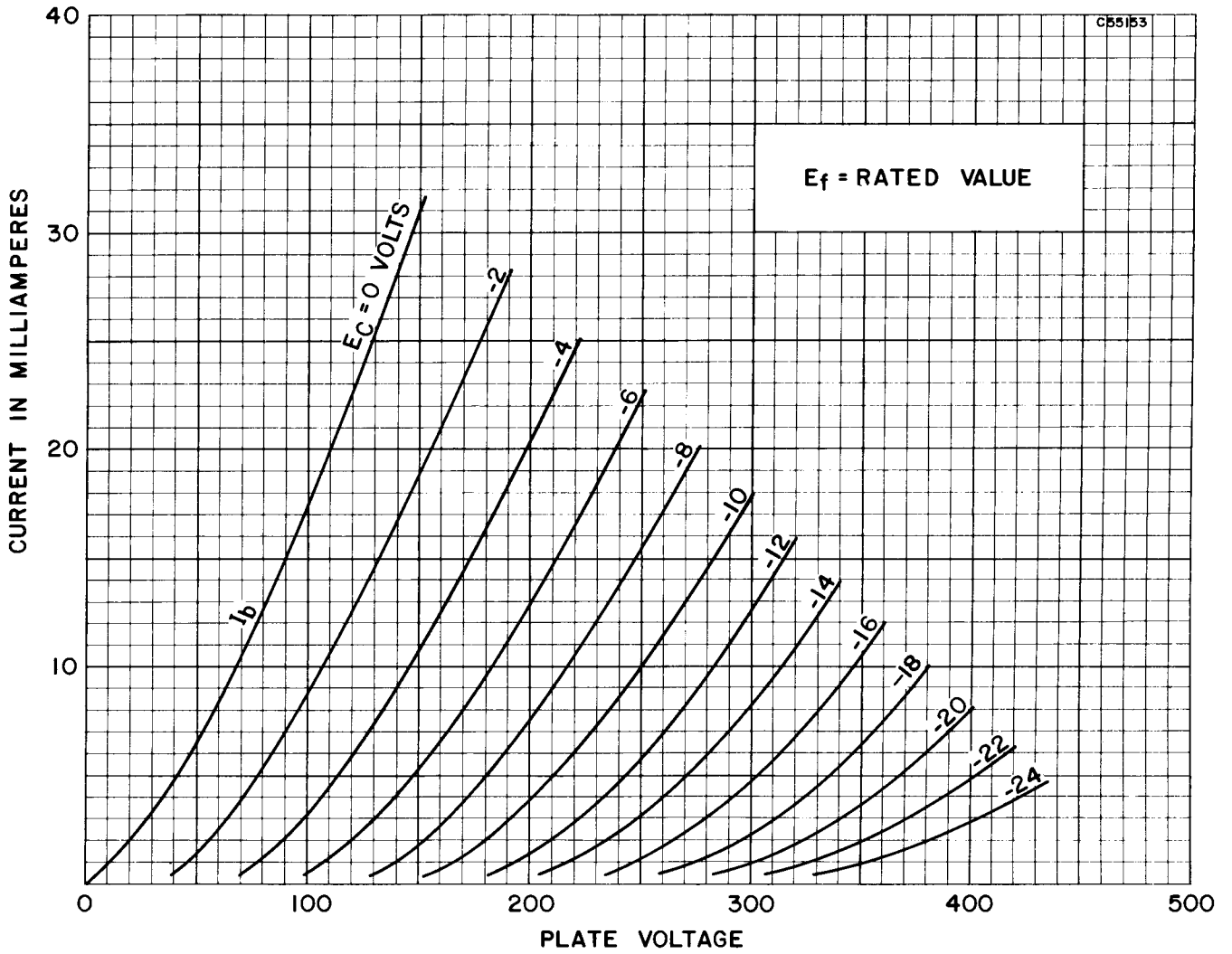
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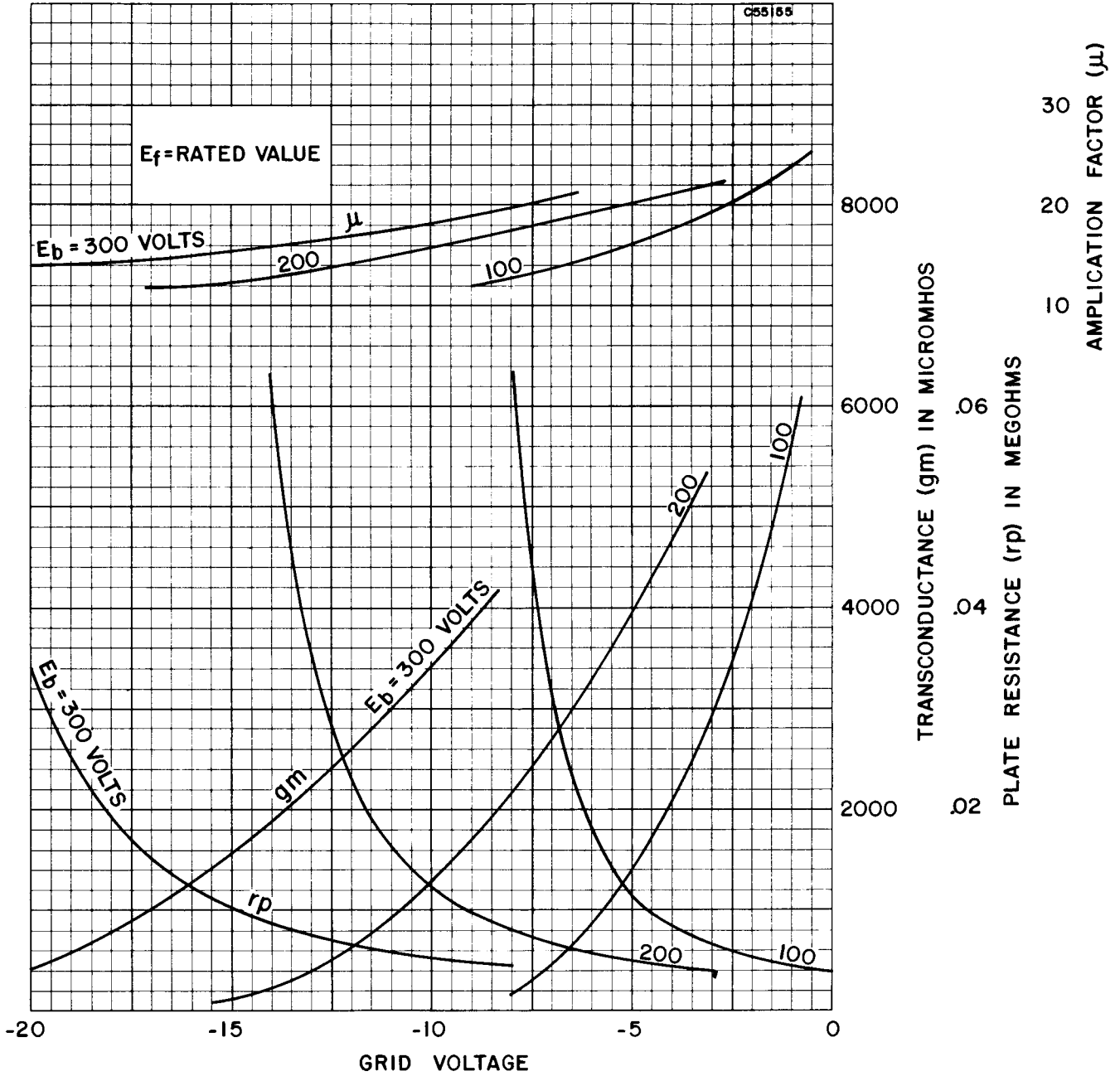
NOTES:

1. *If either unit is operated at maximum rated conditions, Grid No. 1 Circuit Resistances for both units should not exceed the stated values.*
2. *The heater-cathode voltage should not exceed the value of the operating cathode bias because the voltage between the heater and cathode is also applied between the cathode and Grid No. 3. The net result is to make Grid No. 3 negative with respect to cathode with possible change in tube characteristics.*

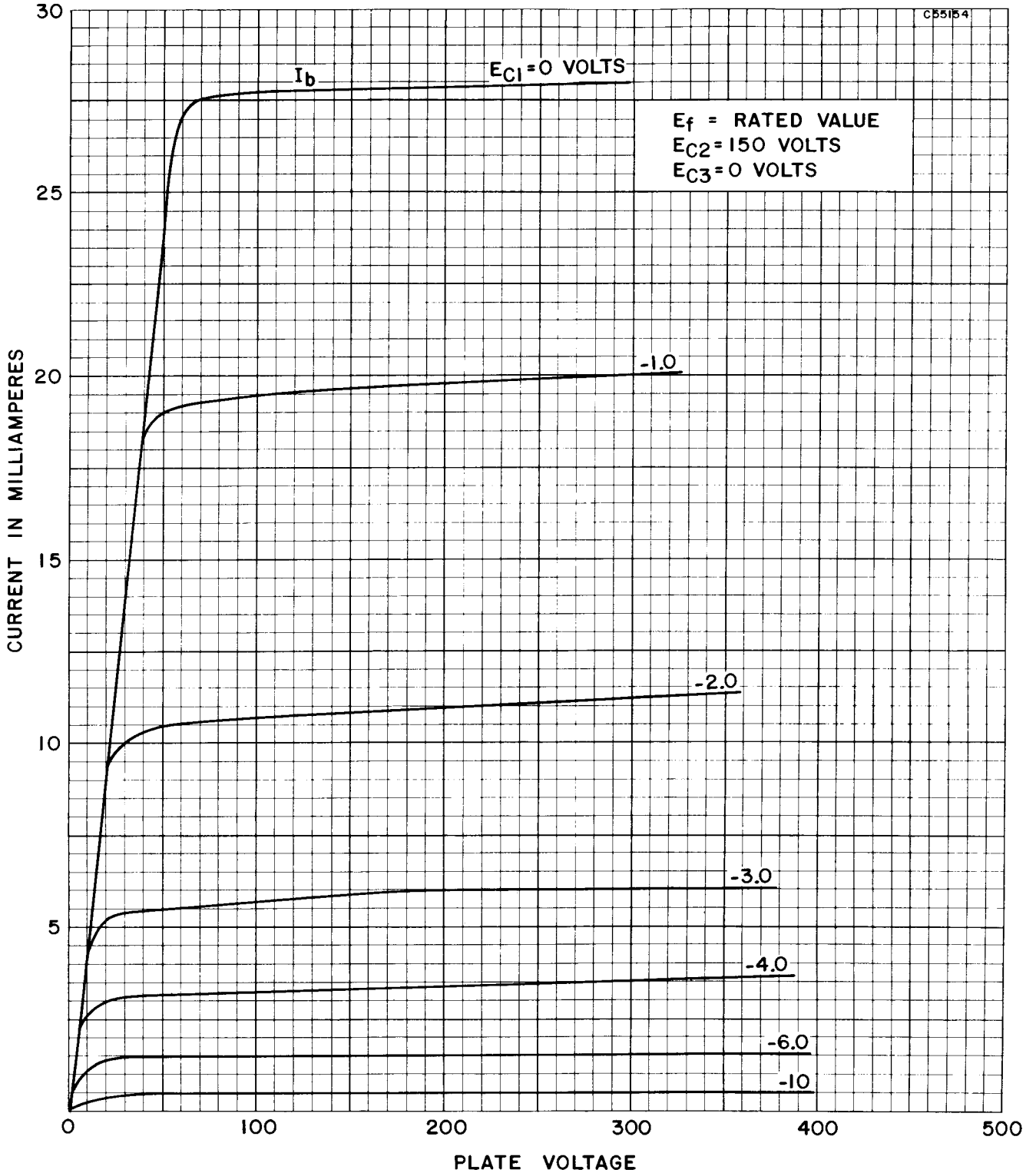
AVERAGE PLATE CHARACTERISTICS
TRIODE SECTION



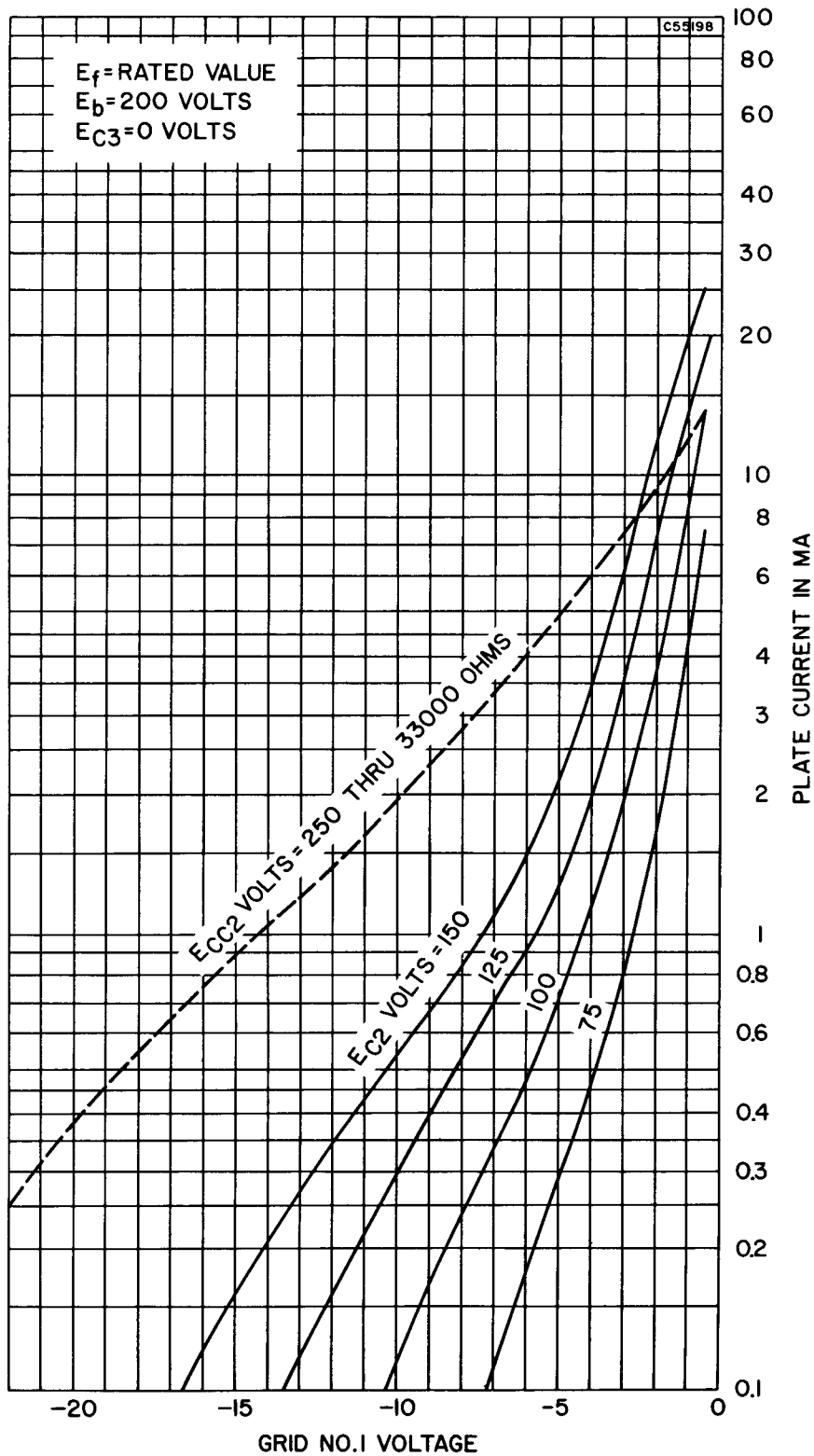
AVERAGE TRANSFER CHARACTERISTICS TRIODE SECTION



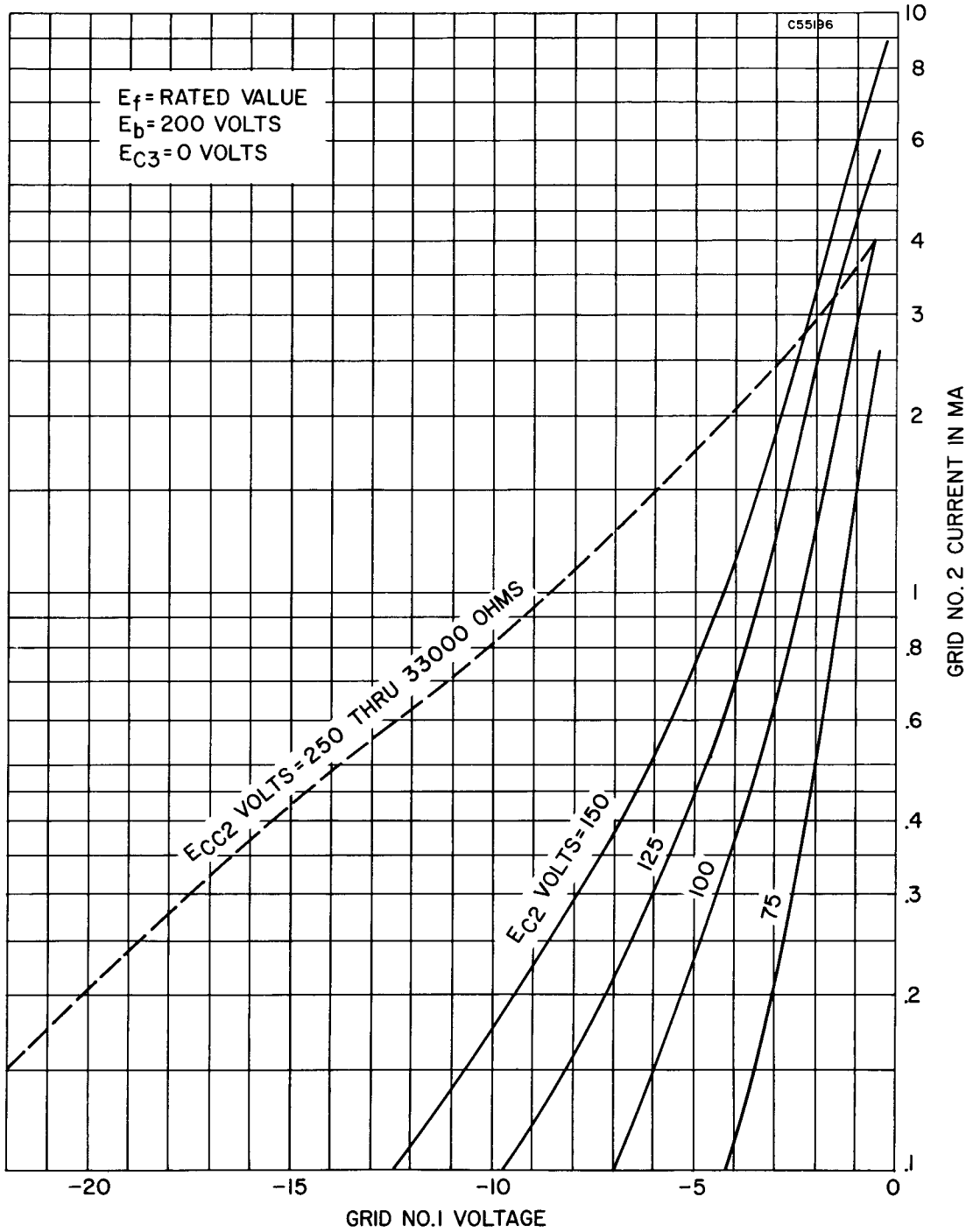
AVERAGE PLATE CHARACTERISTICS
PENTODE SECTION



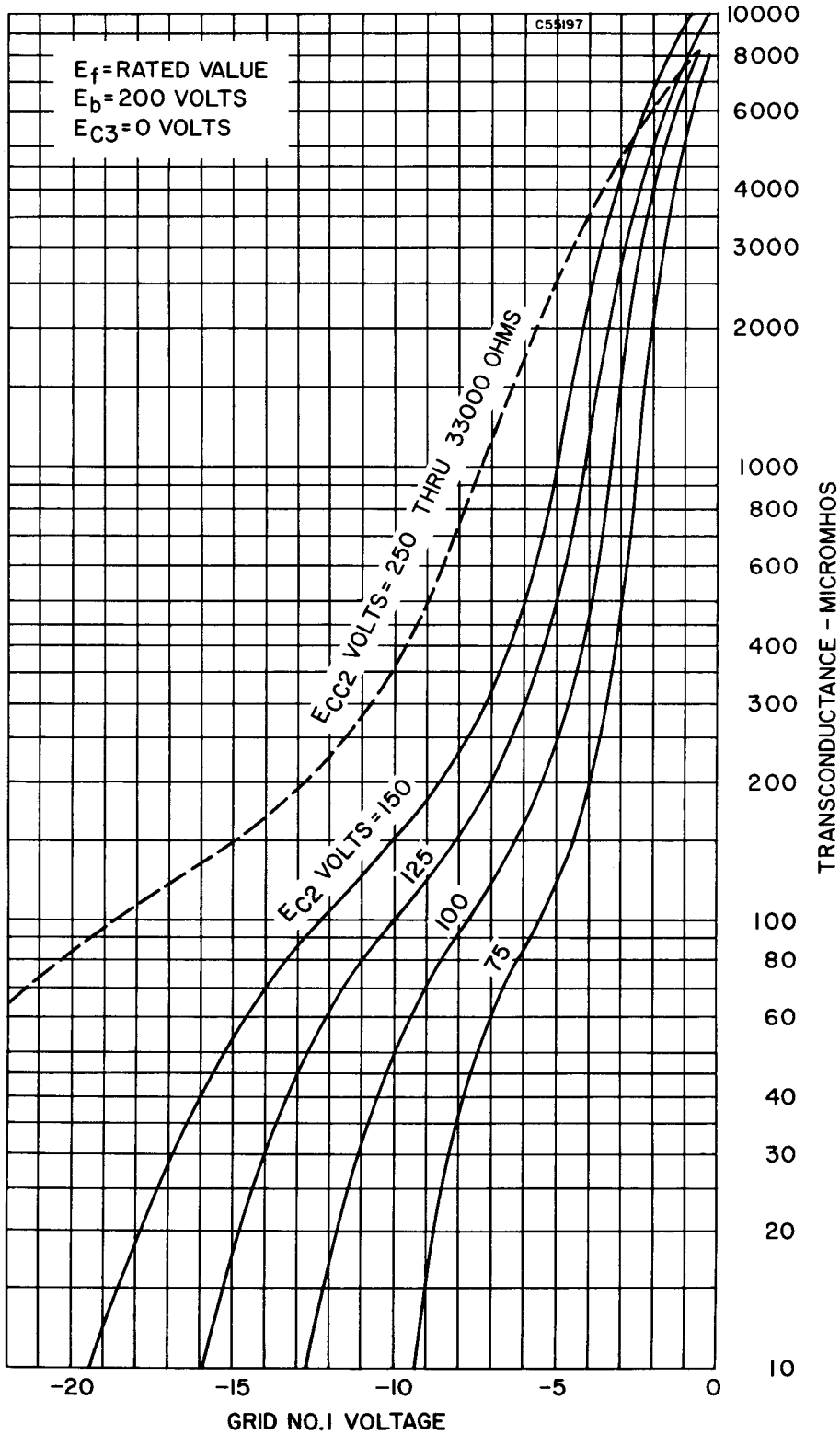
AVERAGE TRANSFER CHARACTERISTICS TRIODE SECTION



AVERAGE TRANSFER CHARACTERISTICS
PENTODE SECTION



AVERAGE TRANSFER CHARACTERISTICS PENTODE SECTION



GRID NO. 2 RATING CHART

