

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 μ f
Grid to (h & i.s. + k)	2.0 μ f
Plate to (h & i.s. + k)	1.7 μ f
Pentode Section	
Grid No. 1 to Plate	0.02 μ f Max.
Grid No. 1 to (h & i.s. & g ₃ + g ₂ + k)	6.5 μ f
Plate to (h & i.s. & g ₃ + g ₂ + k)	2.2 μ f
Triode Grid to Pentode Plate	0.027 μ f Max.
Pentode Grid No. 1 to Triode Plate	0.020 μ f Max.
Pentode Plate to Triode Plate	0.045 μ f Max.

RATINGS (Design Center Values)

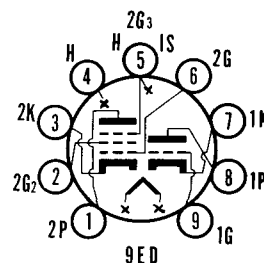
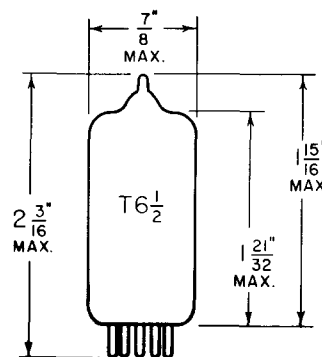
	Triode	Pentode	
Plate Voltage	300	300 Volts	Max.
Grid No. 2 Supply Voltage		300 Volts	Max.
Grid No. 2 Voltage	See Rating Chart		
Grid No. 1 Voltage: Positive Bias Value	0	0 Volts	
Plate Dissipation	2.5	2.0 Watts	Max.
Grid No. 2 Input: For Grid No. 2 Voltages up to 150 Volts		0.5 Watt	Max.
For Grid No. 2 Voltages Between 150 and 300 Volts	See Rating Chart		
Maximum Circuit Values ¹			
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 μ mhos
Grid No. 1 Voltage (approx.) for Plate Current of 10 μ a	-19	Volts
Grid No. 1 Voltage (approx.) for Transconductance of 100 μ mhos		-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.



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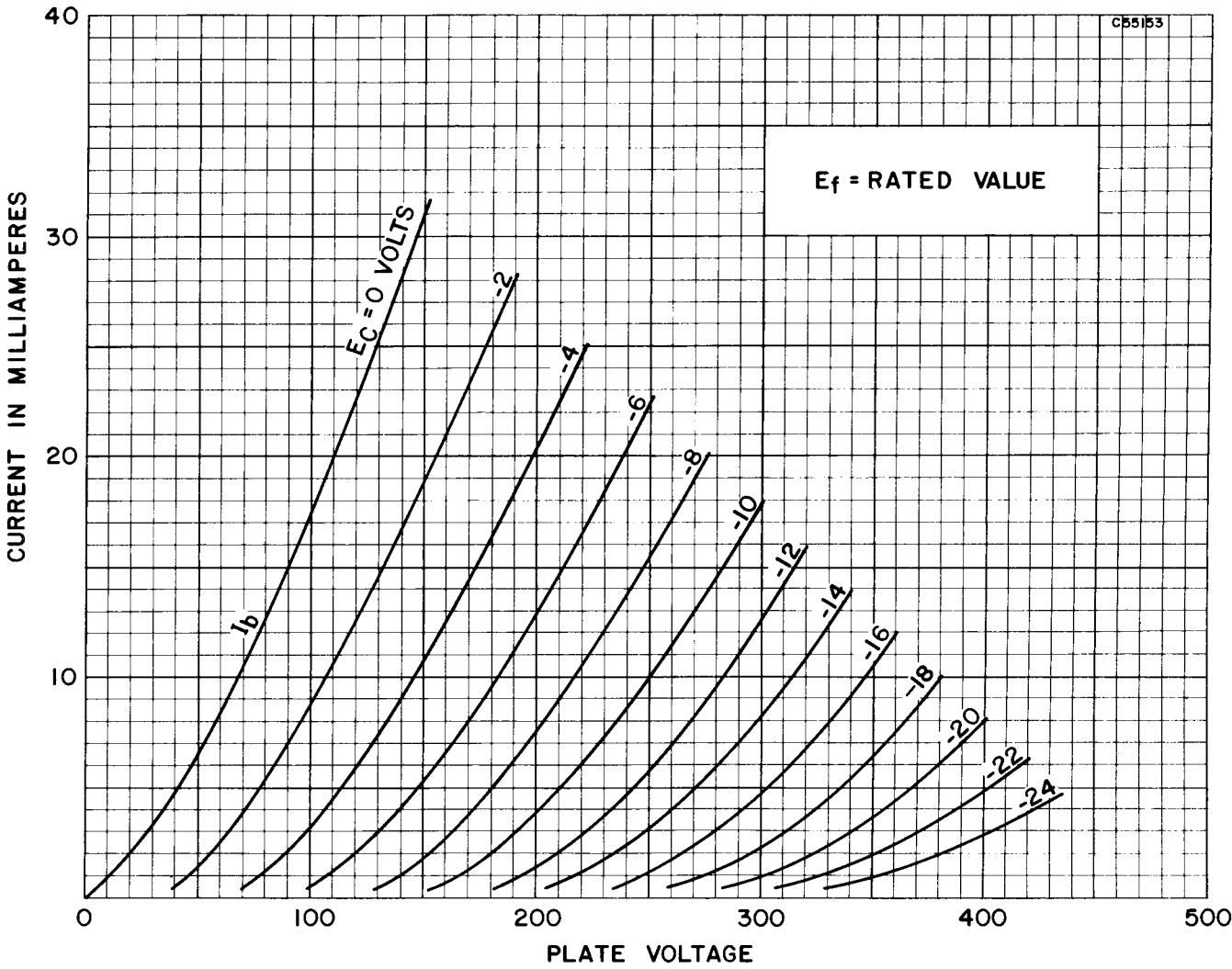
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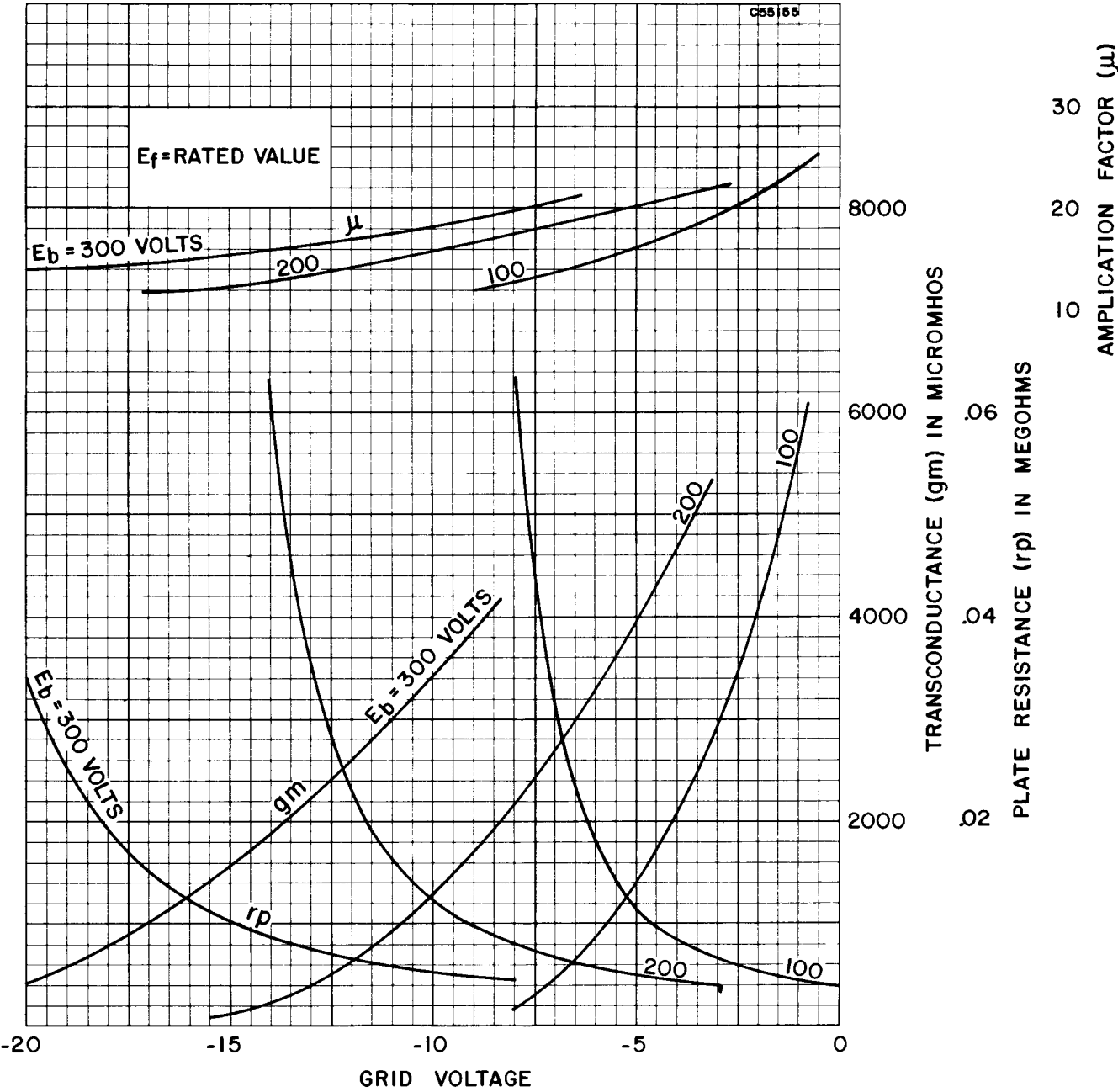
NOTES:

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.*

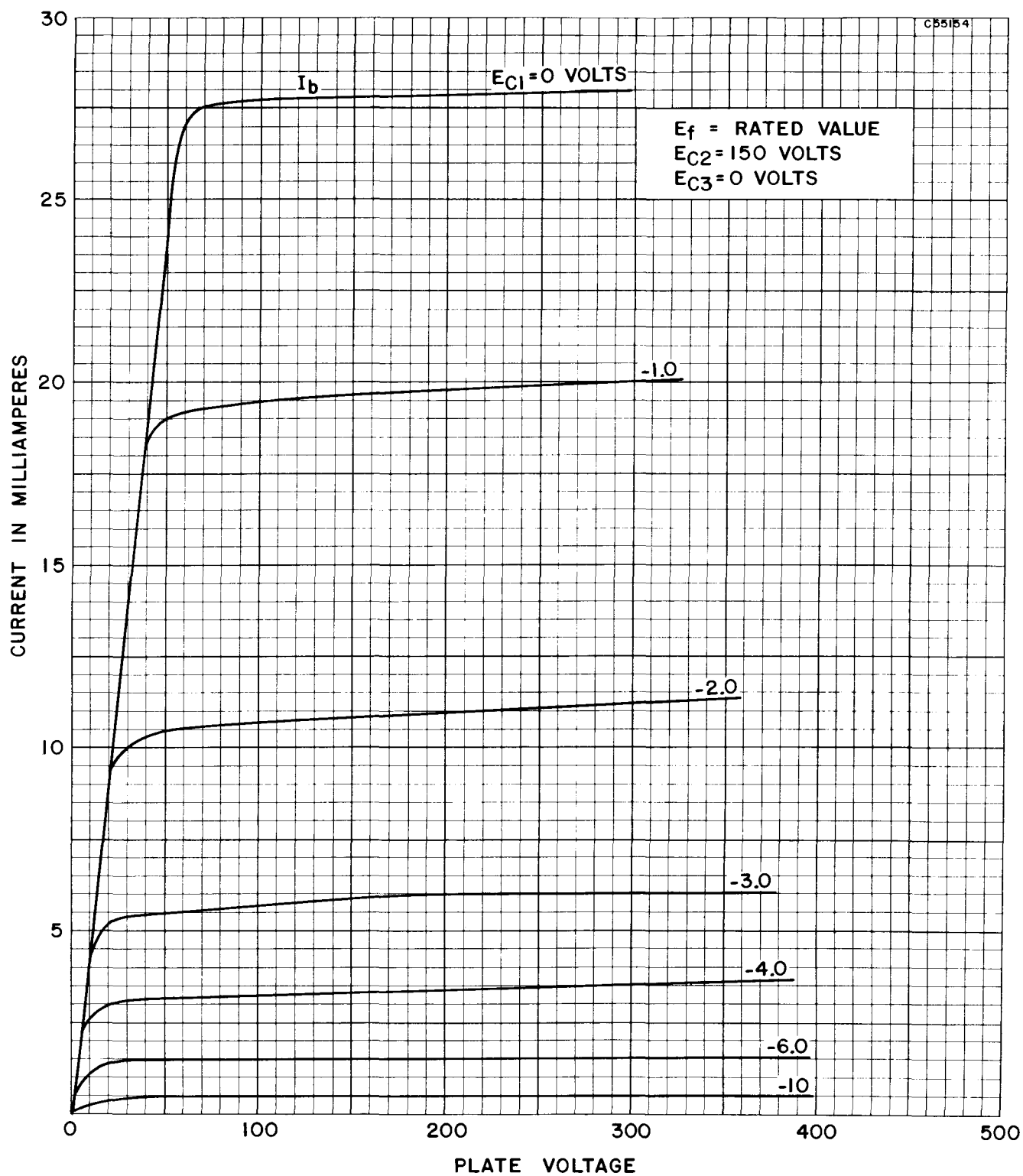
AVERAGE PLATE CHARACTERISTICS
TRIODE SECTION



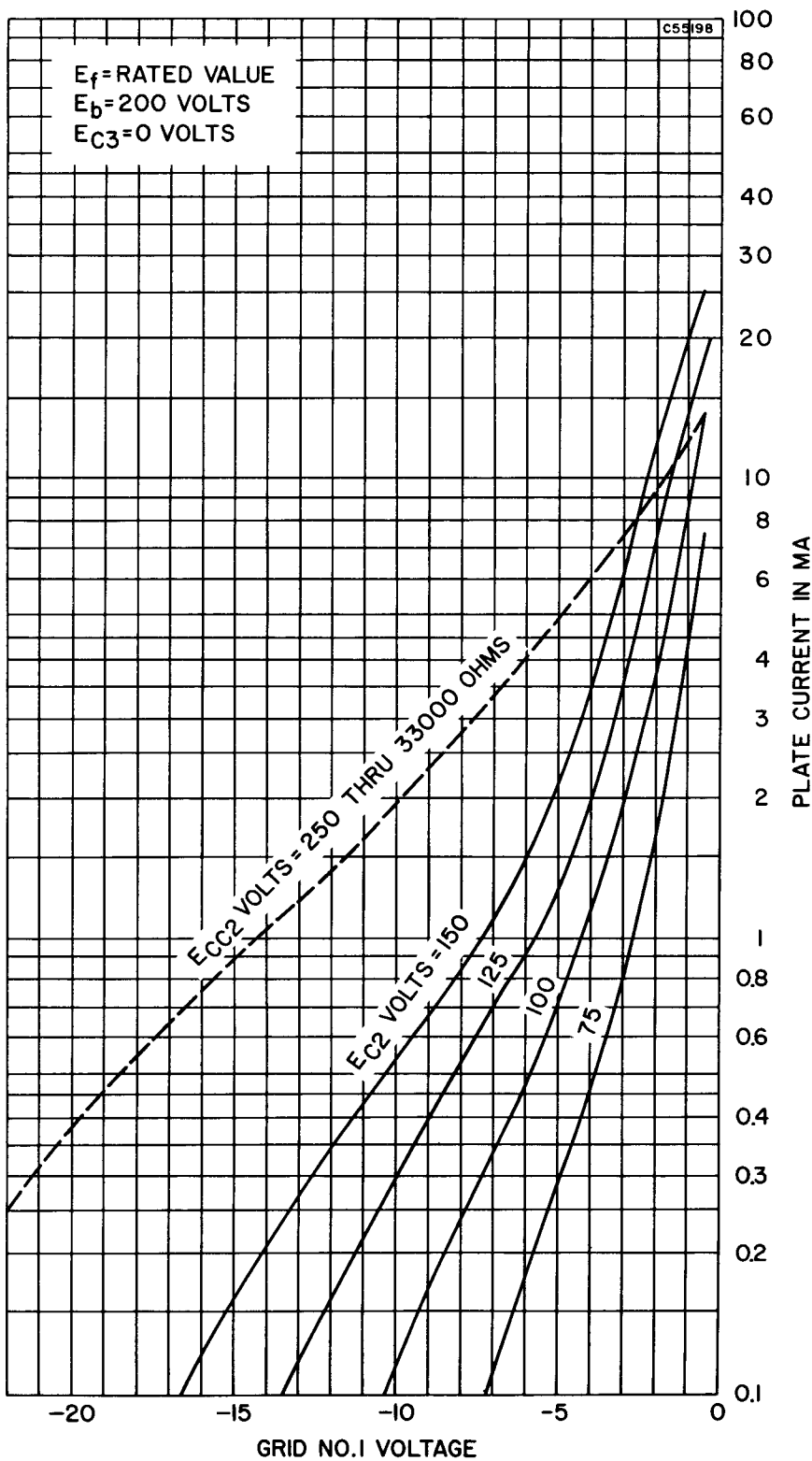
AVERAGE TRANSFER CHARACTERISTICS
TRIODE SECTION



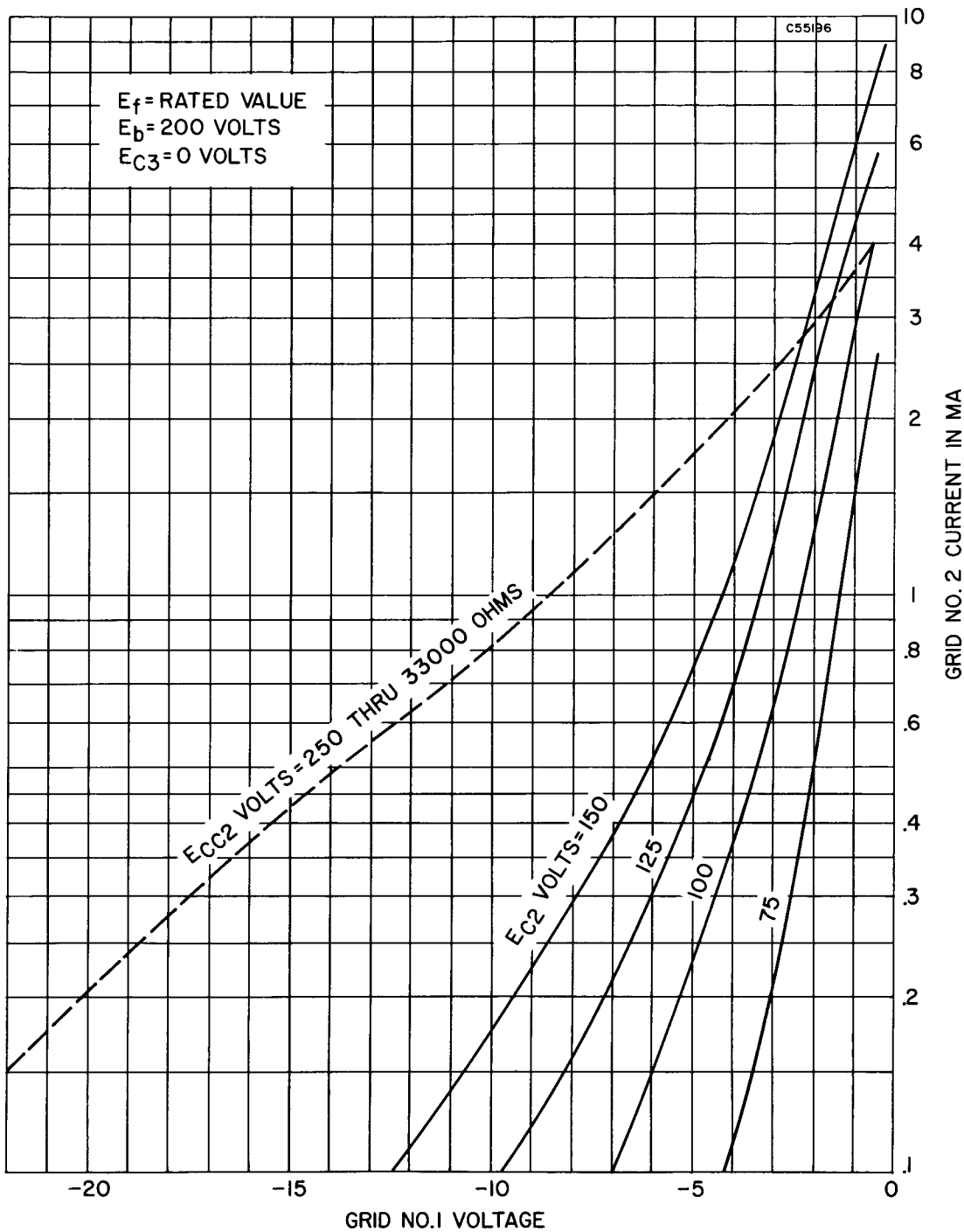
AVERAGE PLATE CHARACTERISTICS
PENTODE SECTION



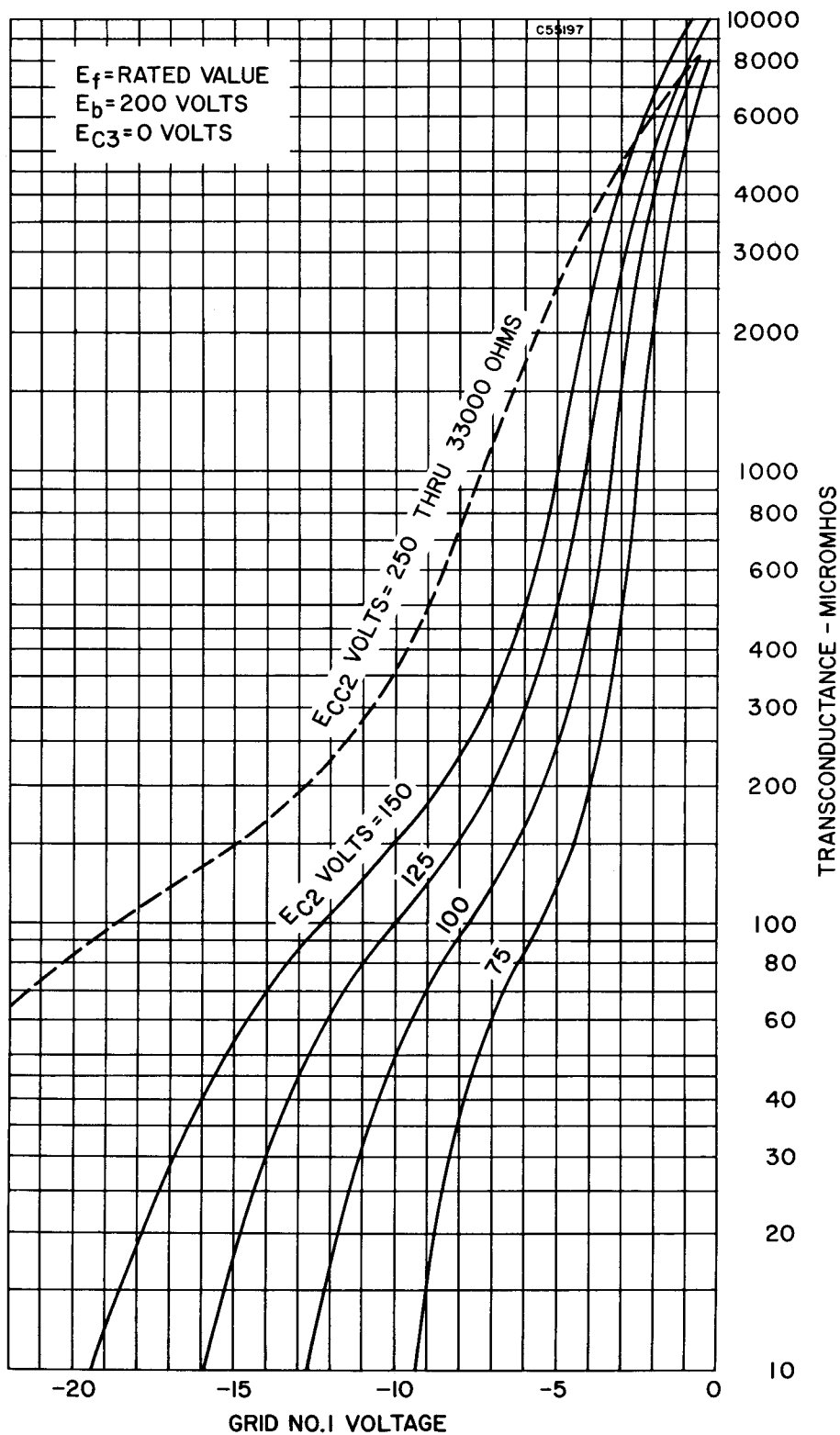
AVERAGE TRANSFER CHARACTERISTICS
TRIODE SECTION



AVERAGE TRANSFER CHARACTERISTICS
PENTODE SECTION



AVERAGE TRANSFER CHARACTERISTICS PENTODE SECTION



GRID NO. 2 RATING CHART

