

**QUICK REFERENCE DATA**

The Sylvania Type 6DC6 is a semi-remote cutoff pentode contained in a T-5½ bulb. It is designed for service in the IF stages of color and monochrome television receivers and may be used in the tuners of such sets as an AF amplifier.

**MECHANICAL DATA**

Bulb . . . . .	T-5 ½
Base . . . . .	E7-1, Miniature Button 7-Pin
Outline . . . . .	5-2
Basing . . . . .	7CM
Cathode . . . . .	Coated Unipotential
Mounting Position . . . . .	Any

**ELECTRICAL DATA**

**HEATER CHARACTERISTICS**

Heater Voltage . . . . .	6.3 Volts	
Heater Current . . . . .	300 Ma	
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.

**DIRECT INTERELECTRODE CAPACITANCES (Unshielded)**

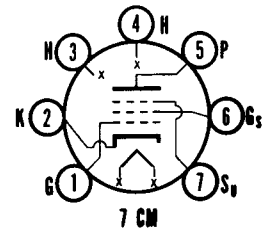
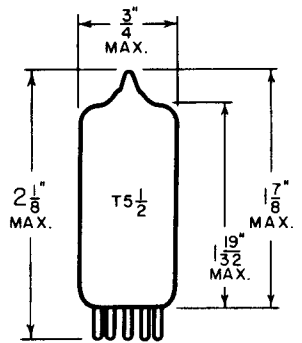
Grid No. 1 to Plate . . . . .	0.02 μμf	Max.
Input . . . . .	6.5 μμf	
Output . . . . .	2.0 μμf	

**RATINGS (Design Center Values)**

Plate Voltage . . . . .	300 Volts	Max.
Grid No. 2 Supply Voltage . . . . .	300 Volts	Max.
Grid No. 2 Voltage . . . . .	See Rating Chart	
Grid No. 3 Voltage . . . . .	0 Volts	Max.
Grid No. 1 Voltage . . . . .	0 Volts	Max.
Plate Dissipation . . . . .	2 Watts	Max.
Grid No. 2 Dissipation . . . . .	0.5 Watt	Max.
Grid No. 1 Circuit Resistance		
Fixed Bias . . . . .	0.25 Megohm	Max.
Self Bias . . . . .	1.0 Megohm	Max.

**CHARACTERISTICS AND TYPICAL OPERATION**

Plate Voltage . . . . .	200 Volts
Grid No. 3 . . . . .	Connected to Cathode at Socket
Grid No. 2 Voltage . . . . .	150 Volts
Cathode Bias Resistor . . . . .	180 Ohms
Plate Resistance (approx.) . . . . .	0.5 Megohm
Transconductance . . . . .	5500 μmhos
Plate Current . . . . .	9 Ma
Grid No. 2 Current . . . . .	3 Ma
Grid No. 1 Bias (approx.) for gm = 50 μmhos . . . . .	-12.5 Volts



**SYLVANIA ELECTRIC PRODUCTS INC.**

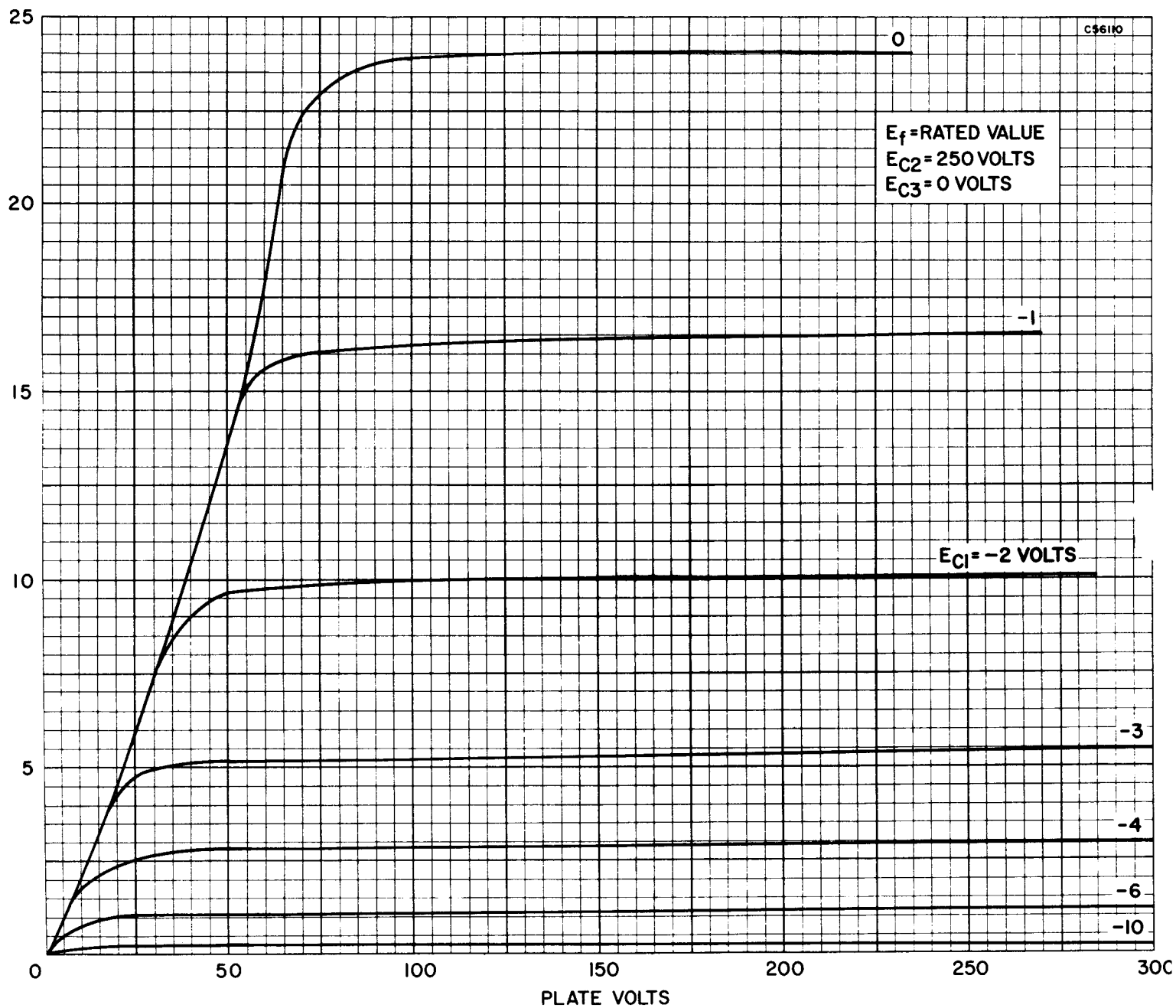
**RADIO TUBE DIVISION  
EMPORIUM, PA.**

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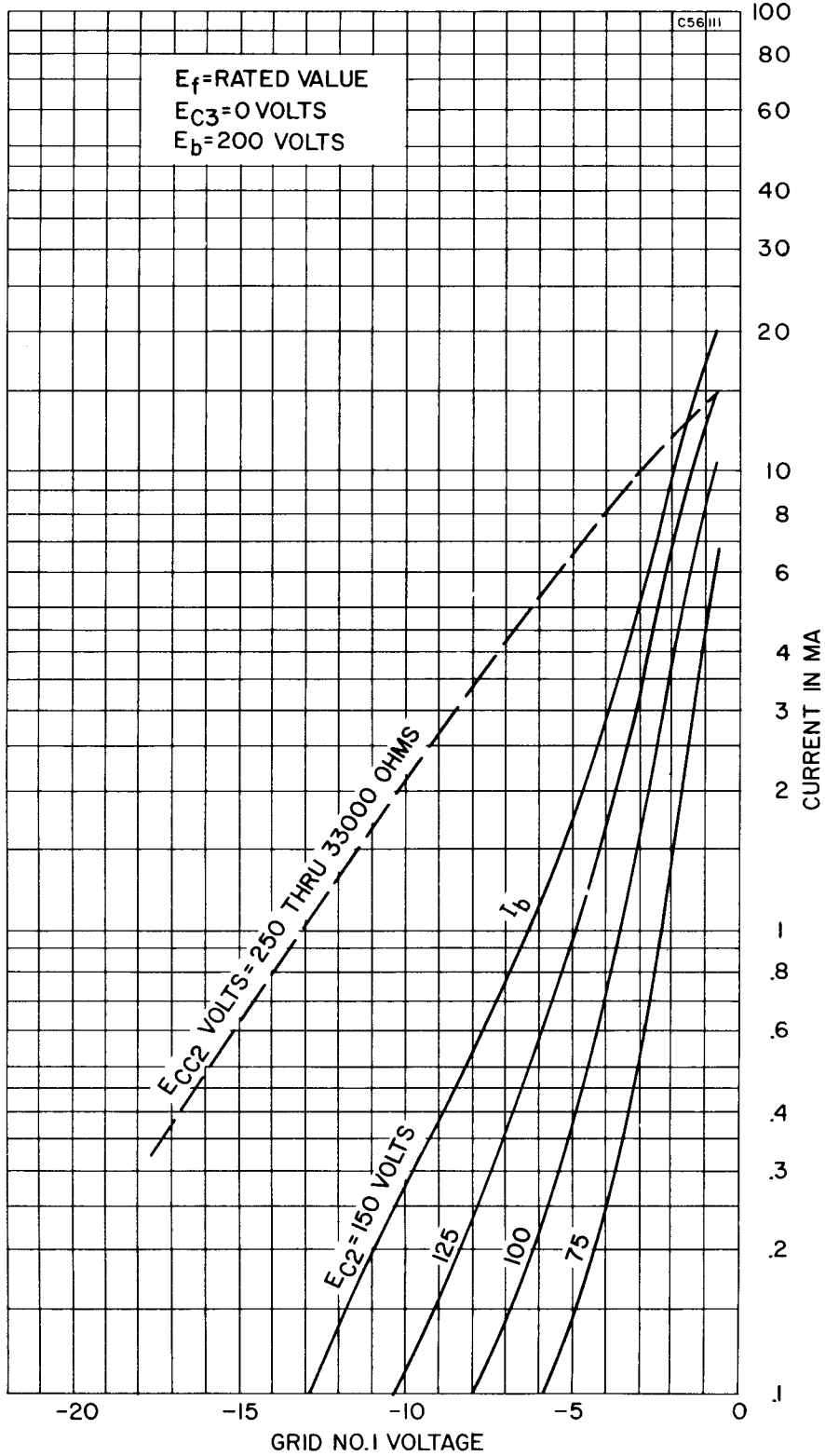
JULY 1956

PAGE 1 OF 6

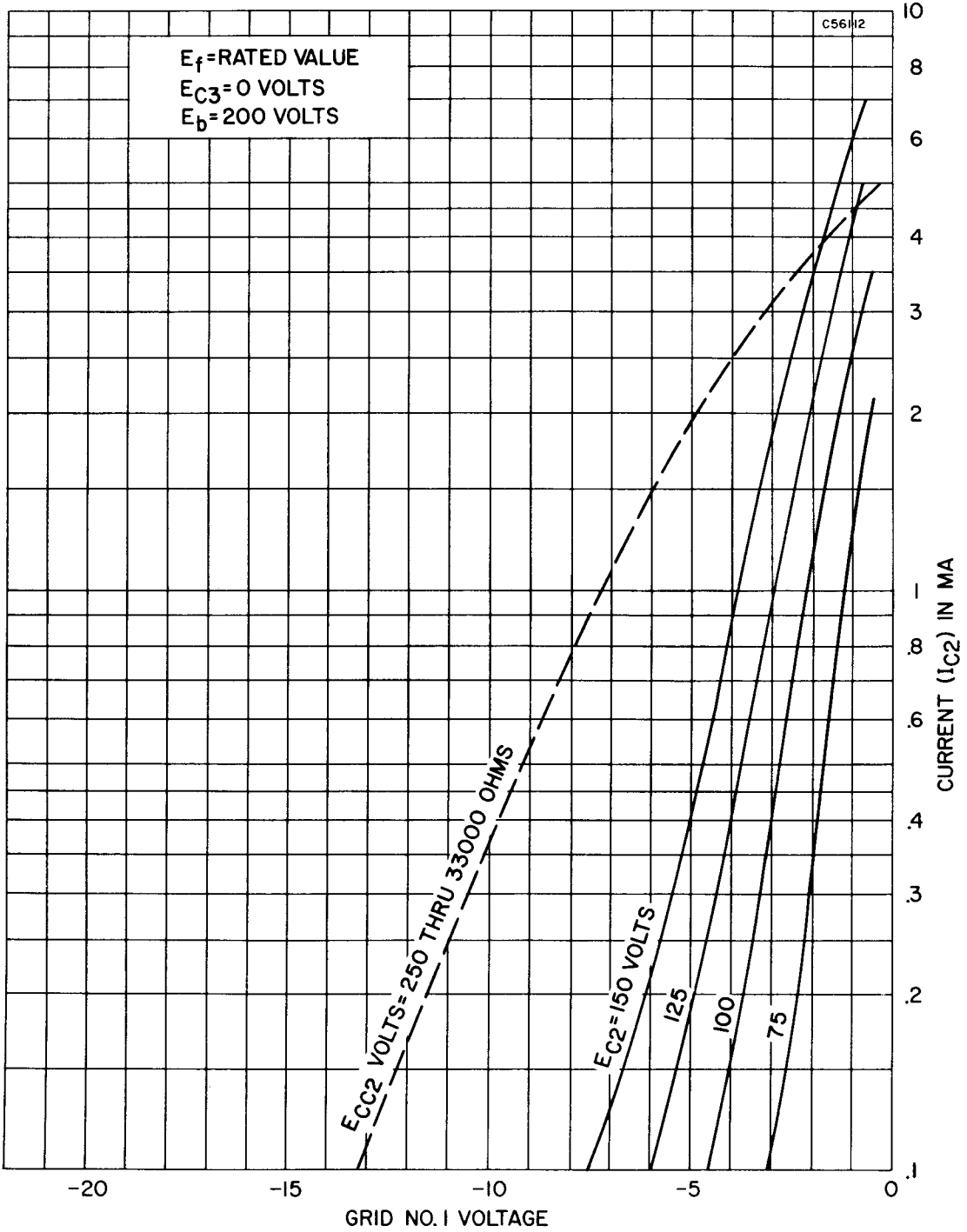
## AVERAGE PLATE CHARACTERISTICS



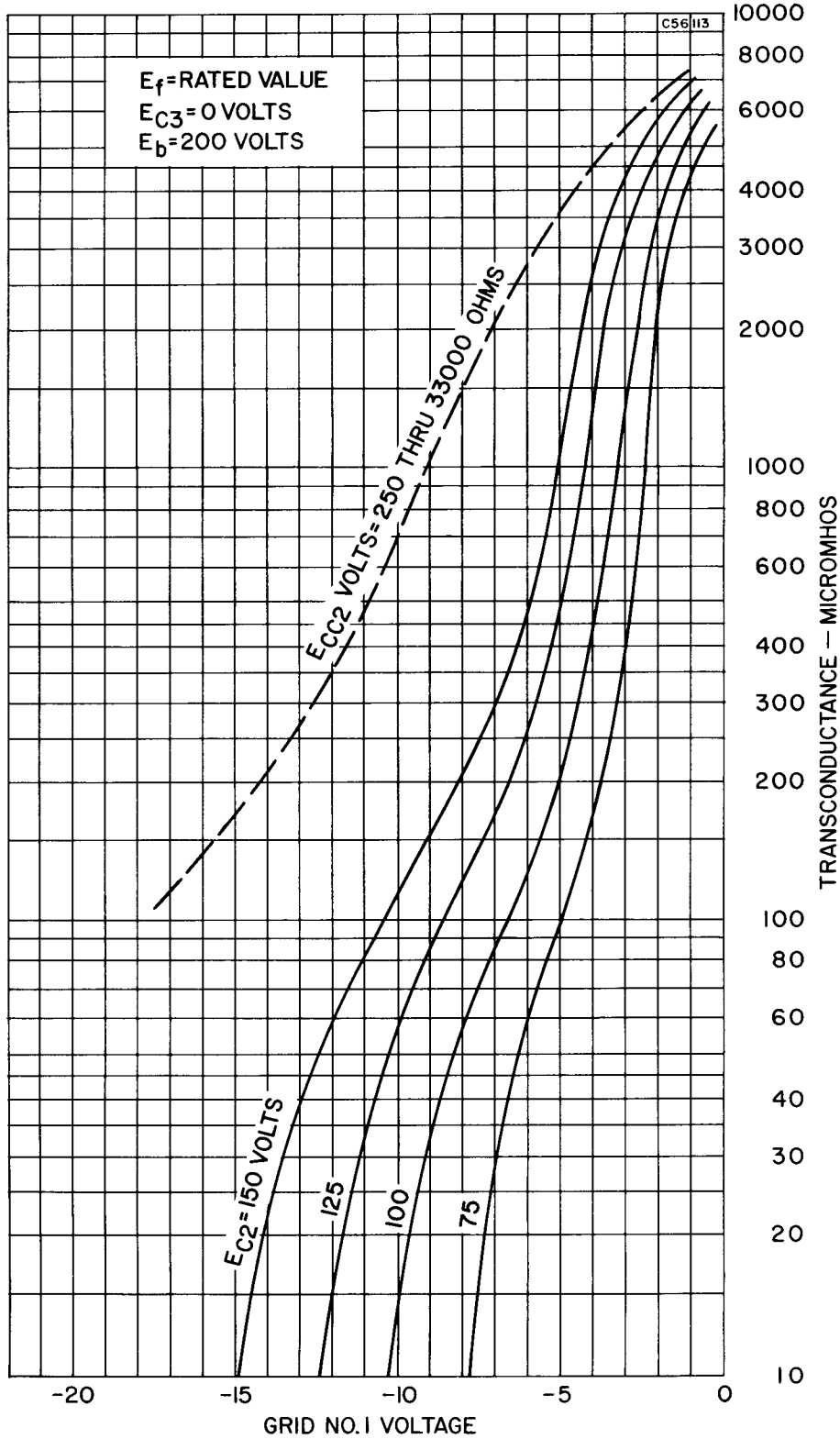
AVERAGE TRANSFER CHARACTERISTICS



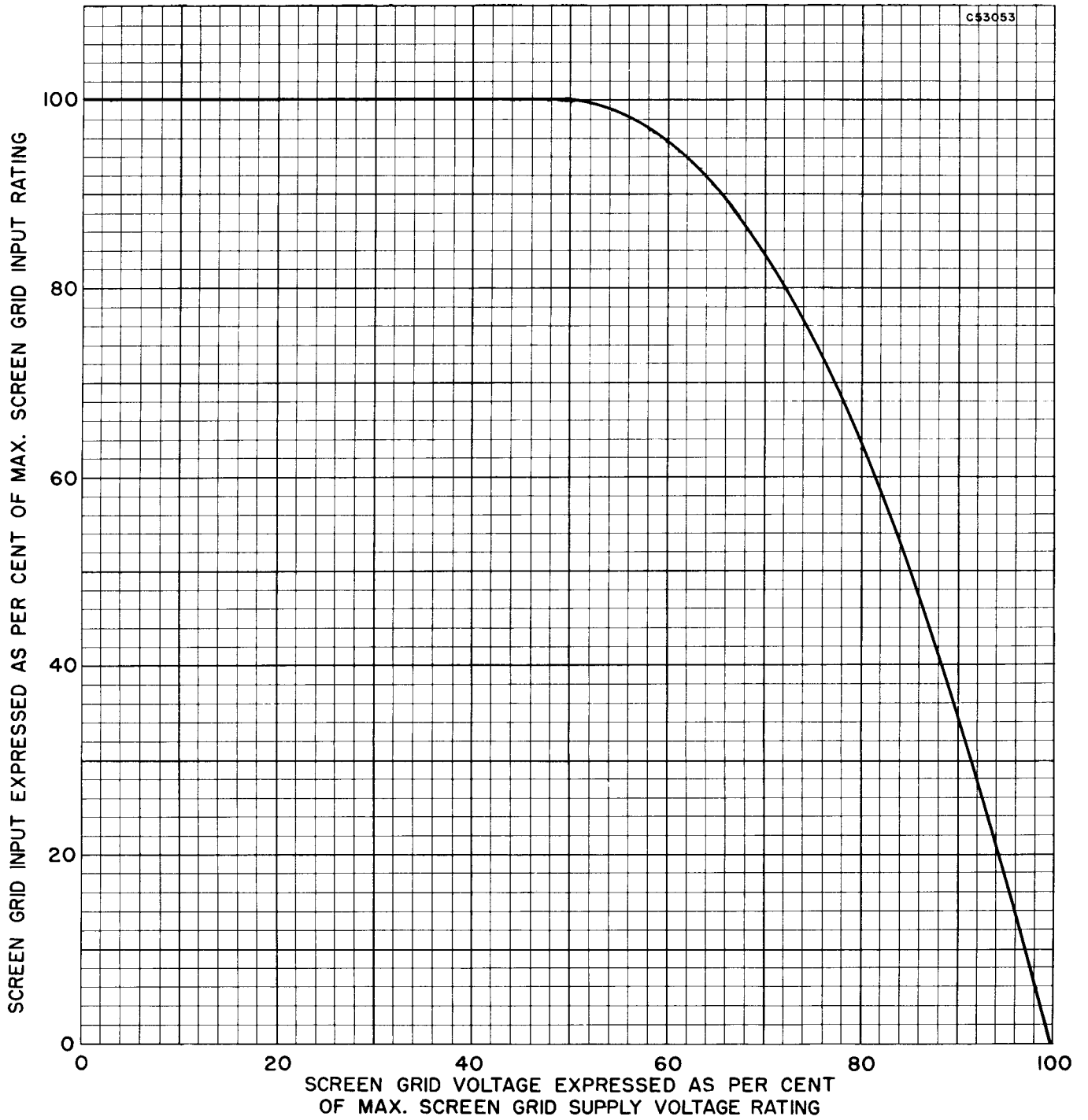
AVERAGE TRANSFER CHARACTERISTICS



AVERAGE TRANSFER CHARACTERISTICS



SCREEN GRID RATING CHART



C53053