

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)

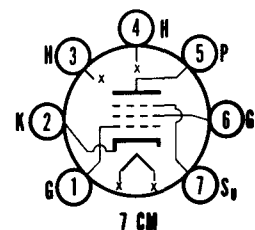
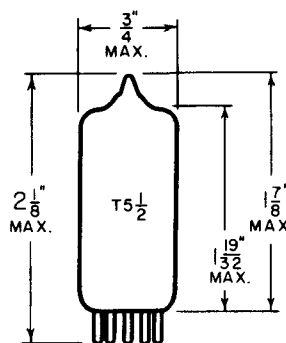
Grid No. 1 to Plate	0.02 $\mu\mu\text{f}$	Max.
Input	6.5 $\mu\mu\text{f}$	
Output	2.0 $\mu\mu\text{f}$	

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 $g_m = 50 \mu\text{mhos}$	-12.5 Volts



SYLVANIA ELECTRIC
PRODUCTS INC.

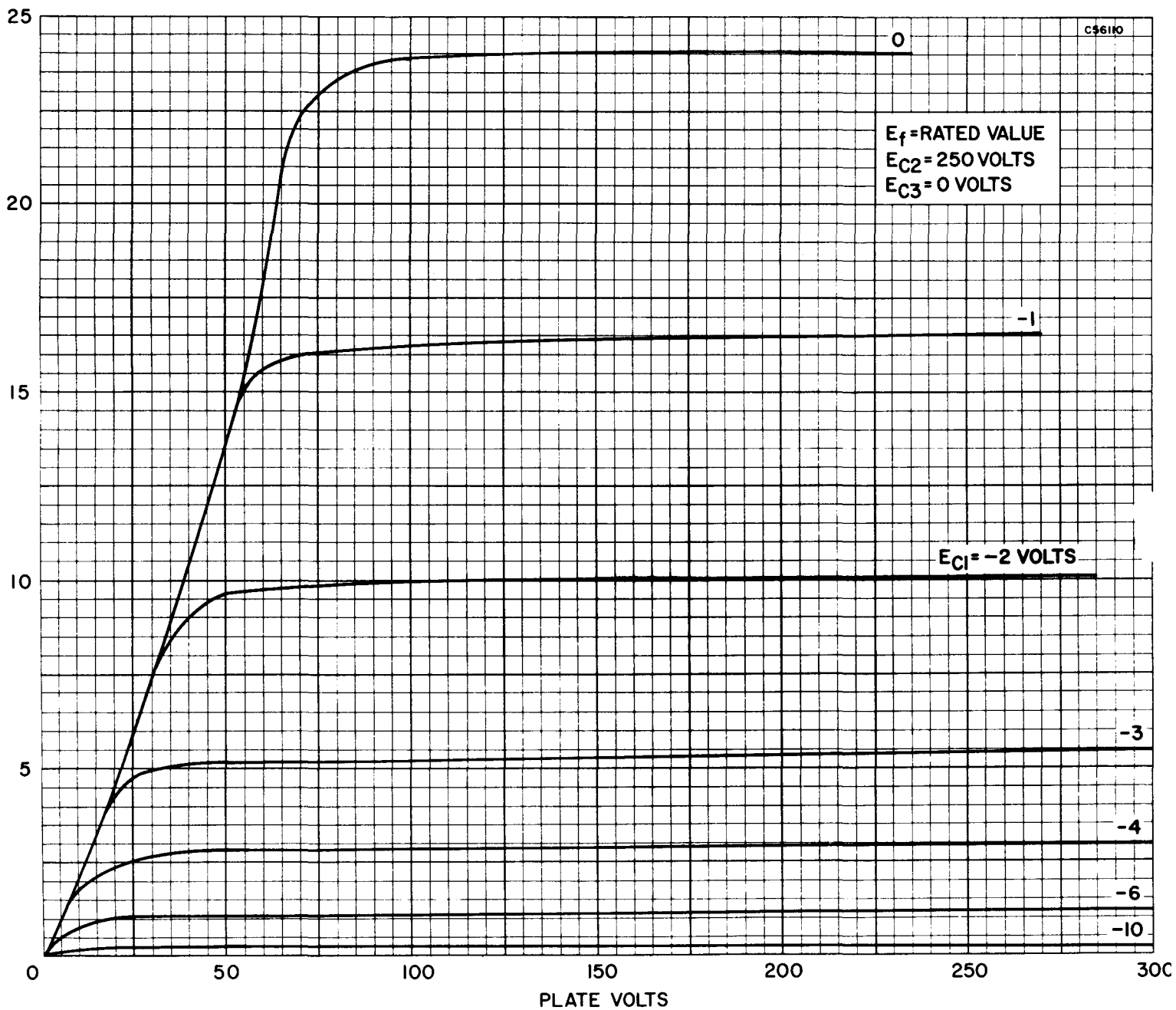
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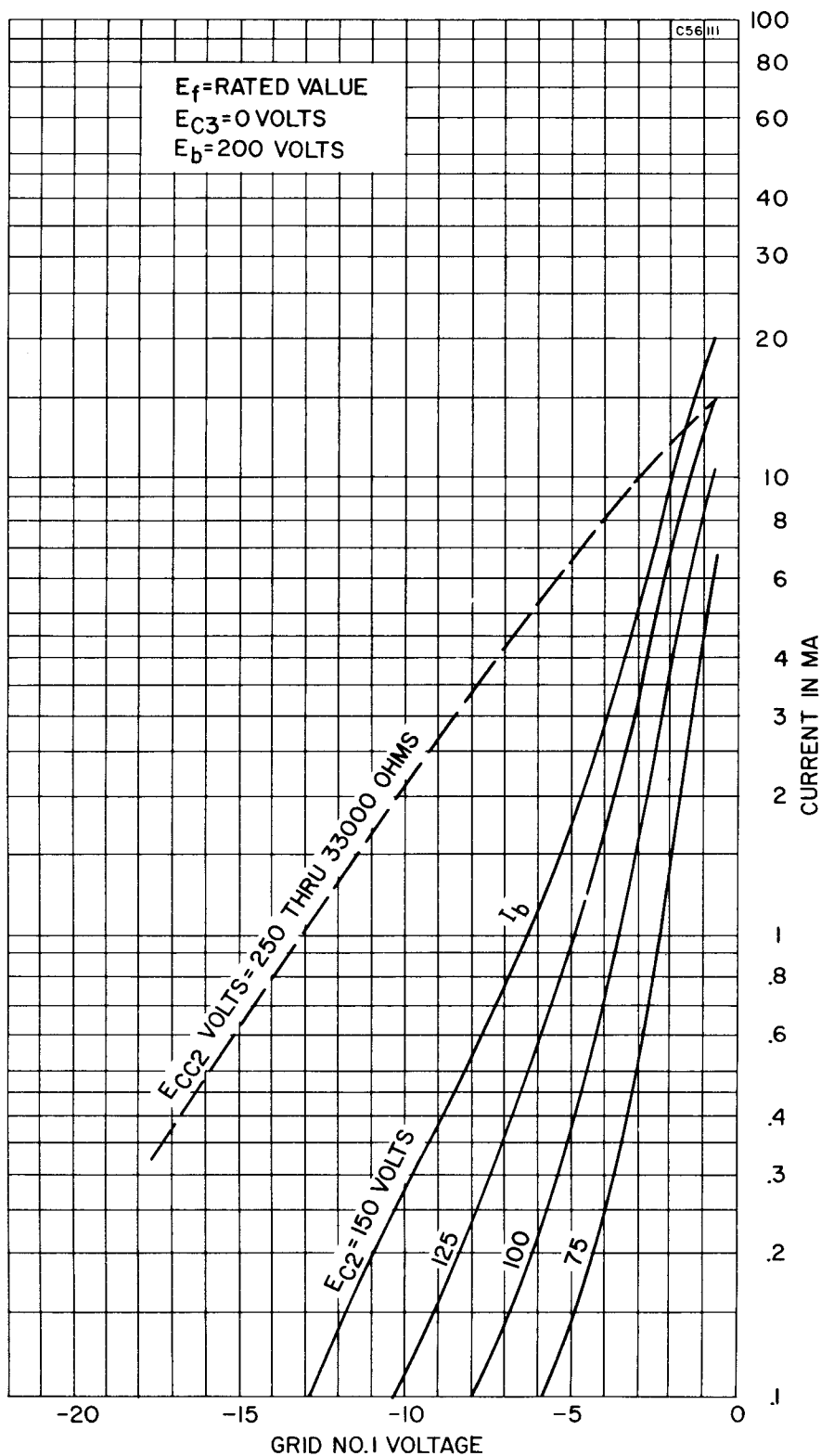
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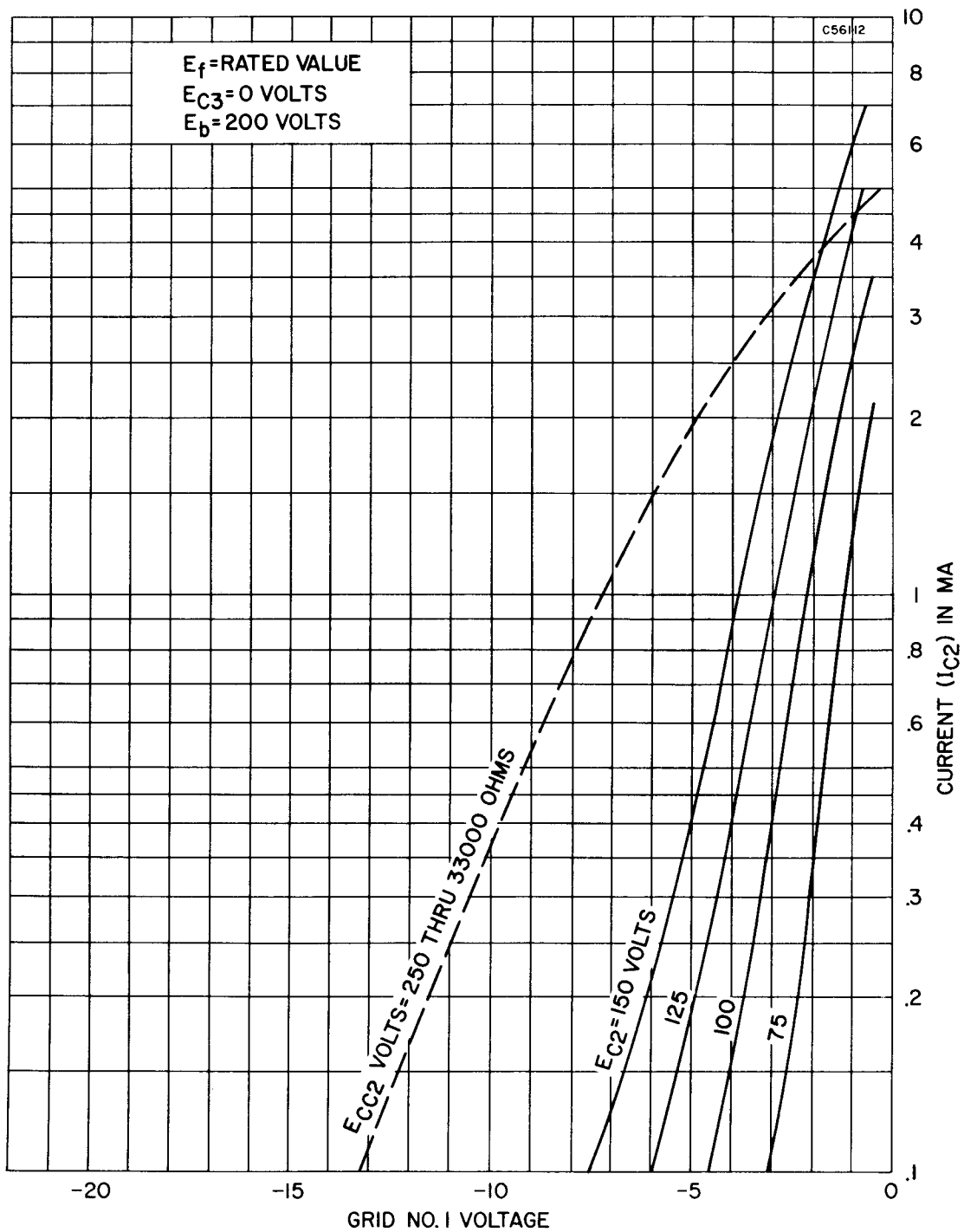
AVERAGE PLATE CHARACTERISTICS



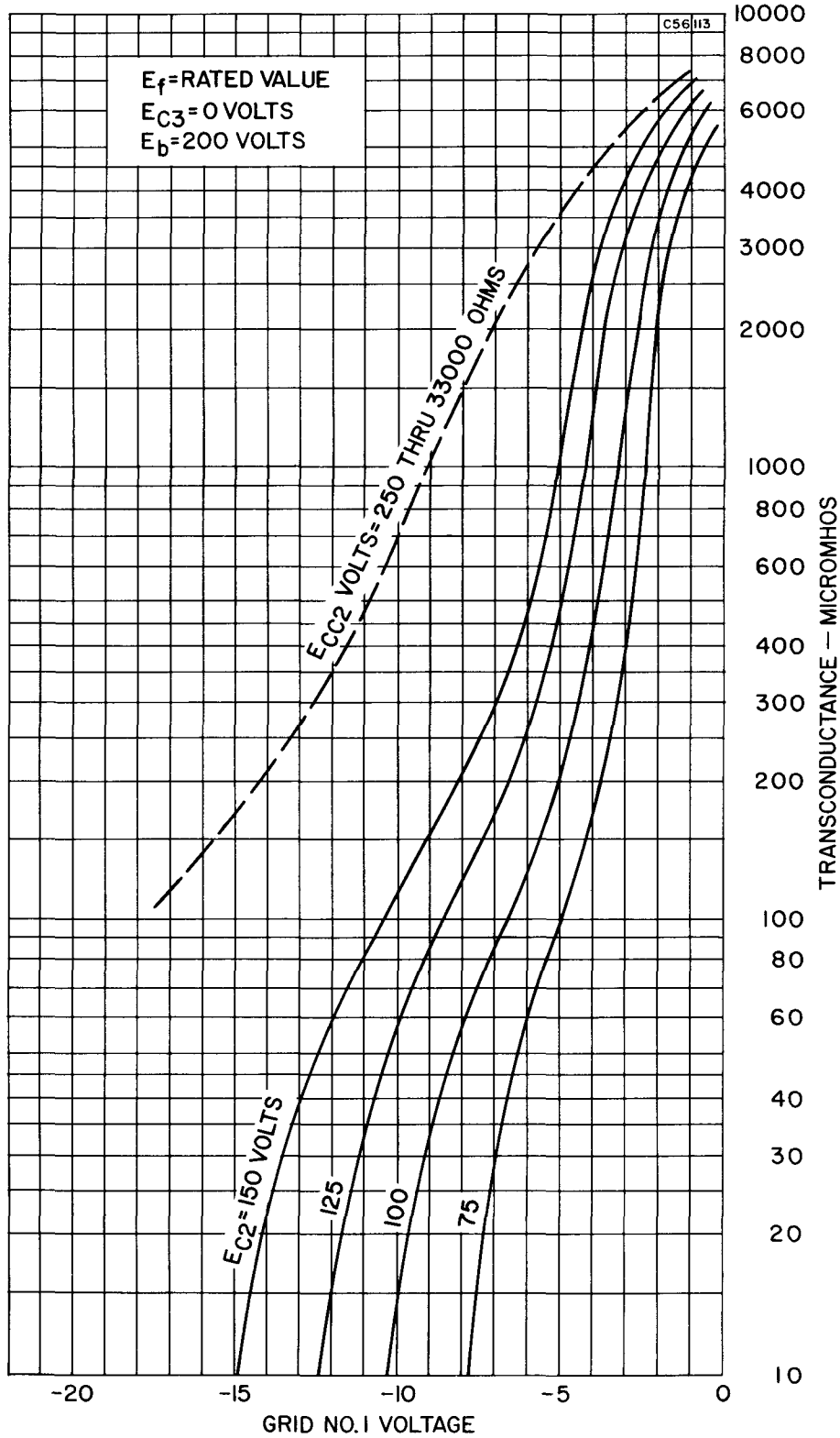
AVERAGE TRANSFER CHARACTERISTICS



AVERAGE TRANSFER CHARACTERISTICS



AVERAGE TRANSFER CHARACTERISTICS



SCREEN GRID RATING CHART

