

MECHANICAL DATA

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

ELECTRICAL DATA

HEATER CHARACTERISTICS

	4CX7	6CX7
Heater Voltage	4.2	6.3 Volts
Heater Current	600	400 Ma
Heater Warm-up Time ¹	11	Seconds
Heater-Cathode Voltage (Design Center Values)		
Heater Negative with Respect to Cathode		
Total DC and Peak ²	200	200 Volts Max.
Heater Positive with Respect to Cathode		
DC	100	100 Volts Max.
Total DC and Peak	200	200 Volts Max.

DIRECT INTERELECTRODE CAPACITANCES (Shielded)³

	Section No. 1	Section No. 2
Grid to Plate: (g to p)	1.2	μμf
Input: g to (h+k+e.s.)	2.4	μμf
Output: p to (h+k+e.s.)	1.3	μμf
Heater to Cathode: (h to k) ⁴	2.4	2.2 μμf
Plate to Cathode: (p to k)	0.17	0.17 μμf Max.
No. 2 Plate to No. 1 Plate and No. 1 Grid:		
No. 2 p to (No. 1 p+No. 1 g)	0.027	μμf Max.
Plate to Plate: (No. 1 p to No. 2 p)	0.017	μμf Max.
Grounded Grid Operation:		
Input: k to (g+i.s.+h+e.s.)	4.2	μμf
Output: p to (g+i.s.+h+e.s.)	1.7	μμf

RATINGS (Design Center Values — Each Section)

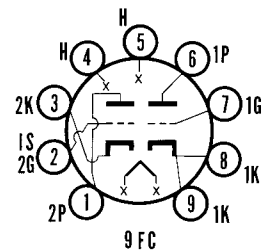
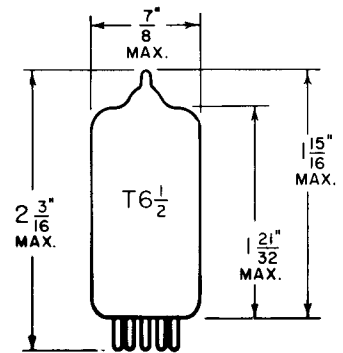
Plate Voltage ²	250 Volts Max.
Plate Dissipation	2 Watts Max.
Cathode Current	20 Ma Max.
Grid Circuit Resistance	0.5 Megohm Max.

CHARACTERISTICS — Class A₁ Amplifier (Each Section)

Plate Voltage	150 Volts
Grid Voltage	0 Volts
Cathode Bias Resistor	220 Ohms
Plate Current	9.0 Ma
Transconductance	6400 μmhos
Amplification Factor	39
Grid Voltage for I _b = 10 μa (approx.)	-10 Volts

QUICK REFERENCE DATA

The Sylvania Types 4CX7 and 6CX7 are miniature medium mu twin triodes designed for operation as cascode (vhf) amplifiers. The 4CX7 features a 600 ma heater and controlled heater warm-up time for service in television receivers employing a series heater string.



SYLVANIA ELECTRIC PRODUCTS INC.

RADIO TUBE DIVISION
EMPORIUM, PA.

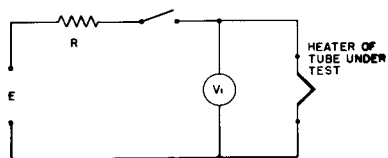
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JANUARY 1956

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NOTES:

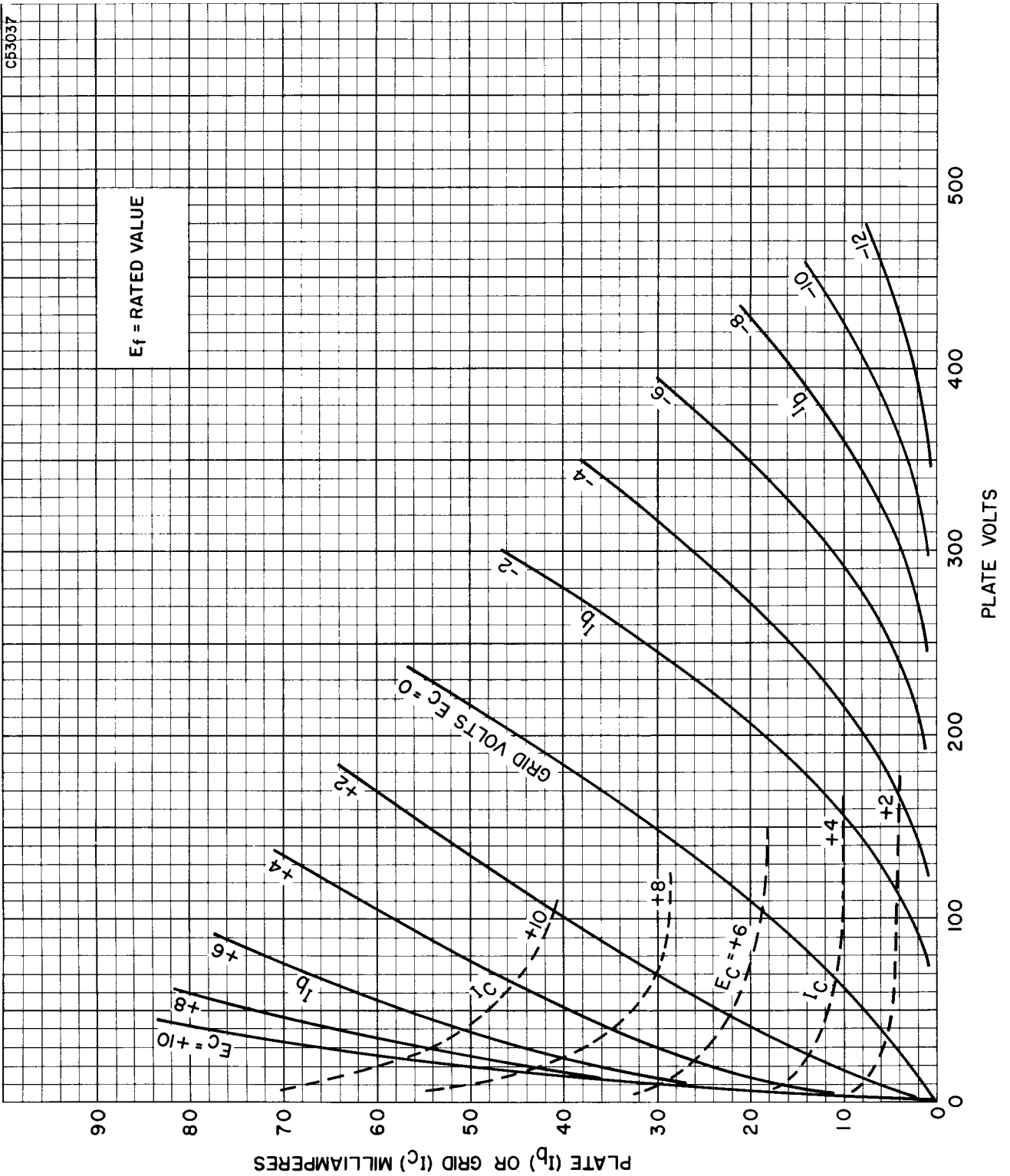
1. *Heater Warm-up Time is defined as the time required in the circuit shown below for the voltage across the heater terminals to increase from zero to the heater test voltage (V1). The conditions used in conjunction with the test circuit depend upon the rated heater voltage and current of the tube under test. For this type: E = 16.8 Volts, R = 21.0 Ohms, V1 = 3.33 Volts.*



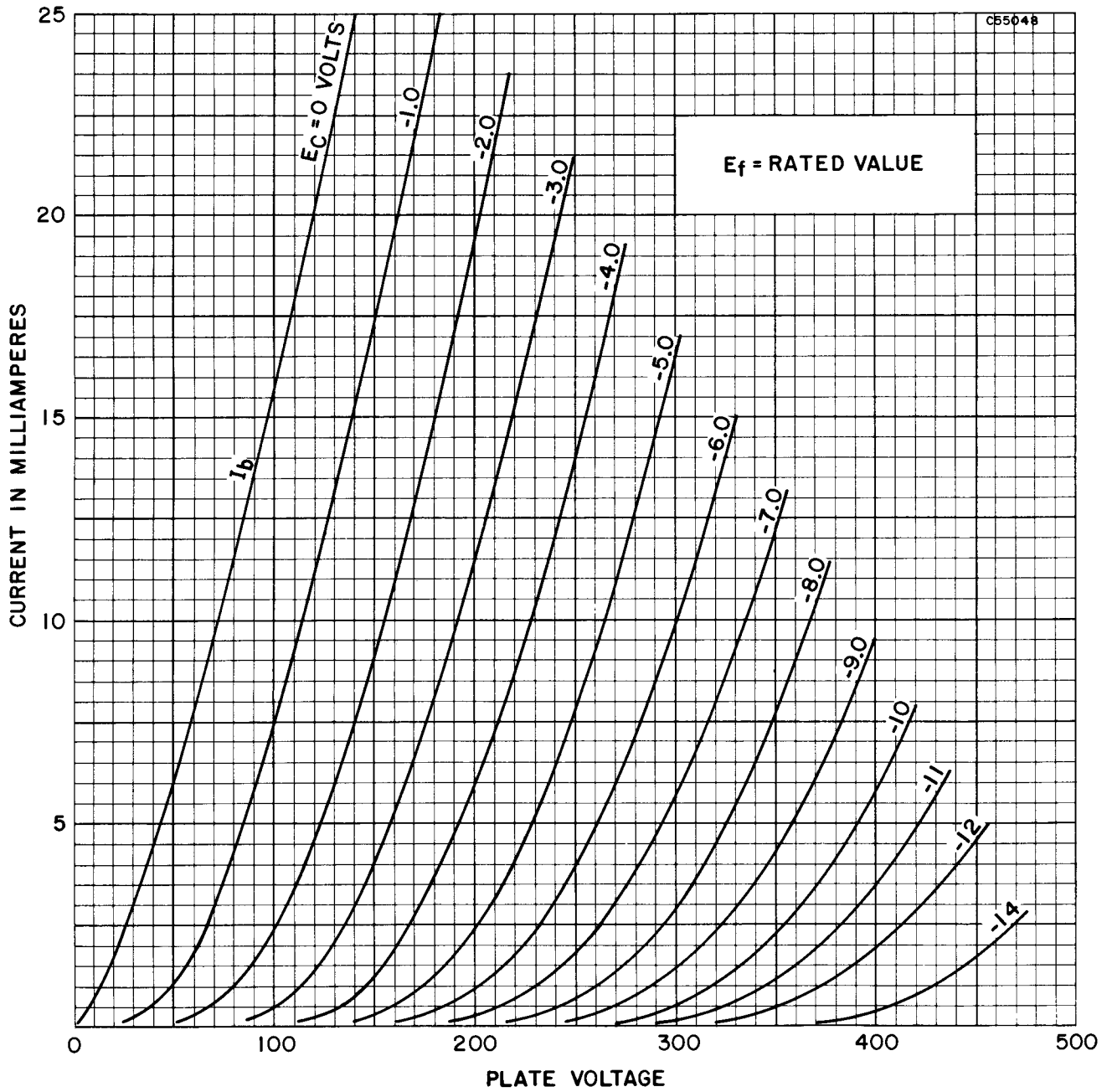
E — Applied Voltage, RMS or DC
 R — Total Series Resistance
 V1 — Heater Test Voltage, RMS or DC
 (80% Rated Heater Voltage)

2. *Under cutoff conditions when the tube is used as a cascode amplifier, this rating may be as high as 300 volts maximum.*
3. *Shield No. 315 connected to heater unless specified differently.*
4. *Shield No. 315 connected to ground.*

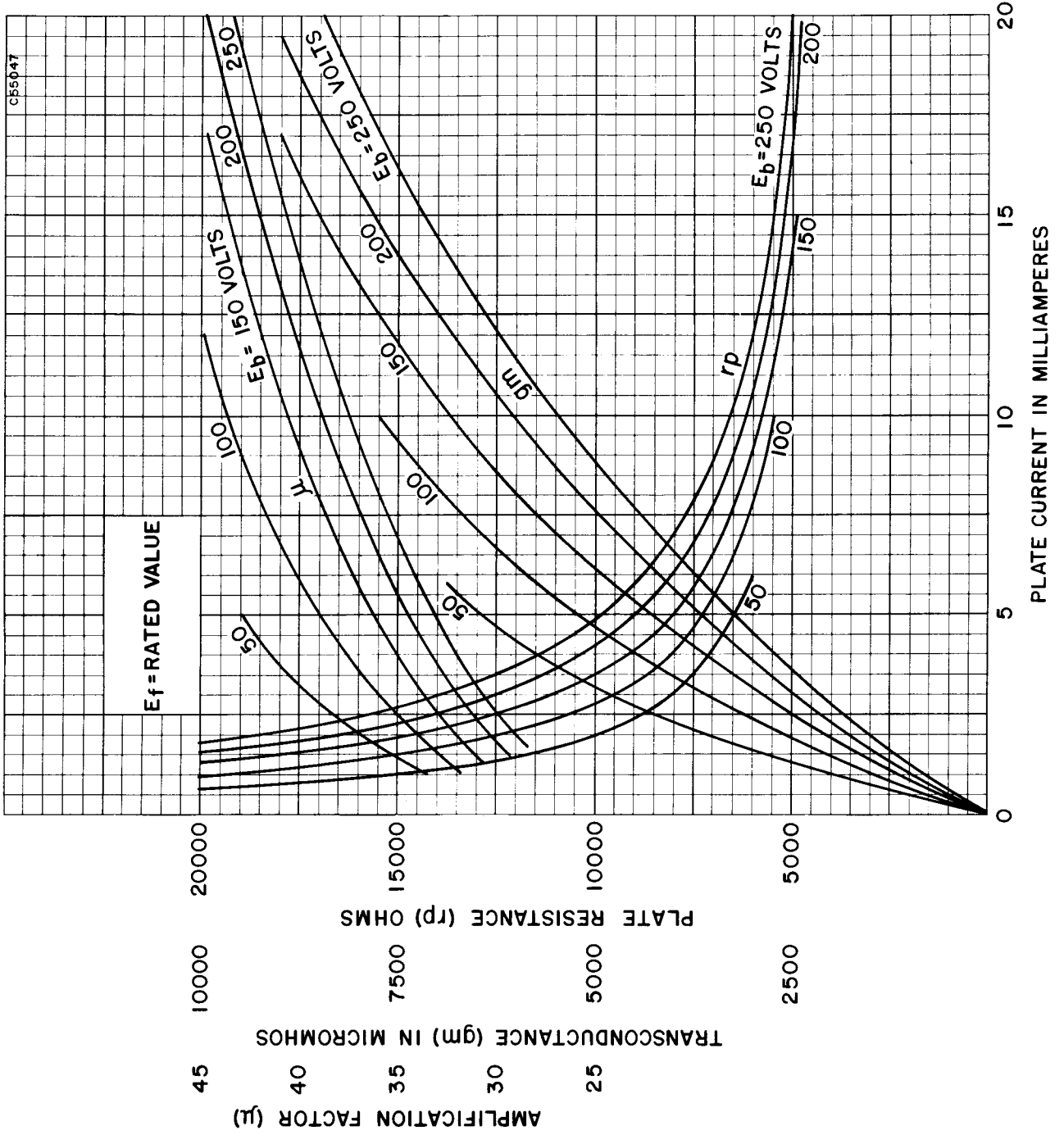
AVERAGE PLATE CHARACTERISTICS



AVERAGE PLATE CHARACTERISTICS



AVERAGE TRANSFER CHARACTERISTICS



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