

engineering data service

MECHANICAL DATA

Bulb	T-6 $\frac{1}{2}$
Base	E9-1, Small Button 9-Pin
Outline	6-2
Basing	9A
Cathode	Coated Unipotential
Mounting Position	Any

ELECTRICAL DATA

HEATER CHARACTERISTICS

Heater Voltage ($\pm 5\%$)	6.3	12.6 Volts
Heater Current	300	150 Ma
Peak Heater Cathode Voltage		
Heater Positive with Respect to Cathode		90 Volts Max.
Heater Negative with Respect to Cathode		90 Volts Max.

DIRECT INTERELECTRODE CAPACITANCES (Unshielded)

Grid to Plate (Each Section)	2.22 μmf
Input (Each Section)	2.90 μmf
Output (Section 1) ¹	0.54 μmf
Output (Section 2) ¹	0.46 μmf
Plate to Plate	0.56 μmf
Grid to Grid	0.06 μmf Max.

RATINGS (Absolute Values — Each Section)

Plate Voltage	200 Volts	Max.
Grid Voltage:		
Negative Bias Value	100 Volts	Max.
Positive Bias Value	0 Volts	Max.
Peak Negative Value	200 Volts	Max.
Plate Dissipation	1.0 Watts	Max.
Grid Input	0.1 Watt	Max.
Cathode Current	14 Ma	Max.
Grid Circuit Resistance		
Fixed Bias	0.1 Megohm	Max.
Cathode Bias	0.5 Megohm	Max.

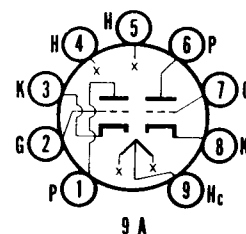
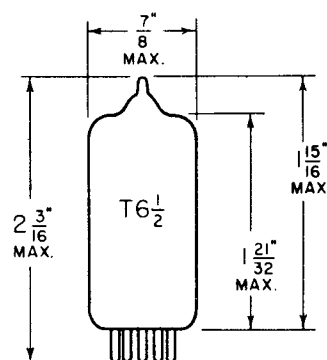
AVERAGE CHARACTERISTICS (Each Section)

Class A Amplifier

Plate Voltage	100 Volts
Cathode Bias Resistor	470 Ohms
Plate Current	4.6 Ma
Plate Resistance, approx.	7500 Ohms
Transconductance	3600 μmhos
Amplification Factor	27

QUICK REFERENCE DATA

The Sylvania Type 6211 is a miniature, medium mu, twin triode designed for frequency divider circuits in electronic computers, and other "on-off" control applications involving long periods of operation under cutoff conditions.



**SYLVANIA ELECTRIC
PRODUCTS INC.**

**RADIO TUBE DIVISION
EMPORIUM, PA.**

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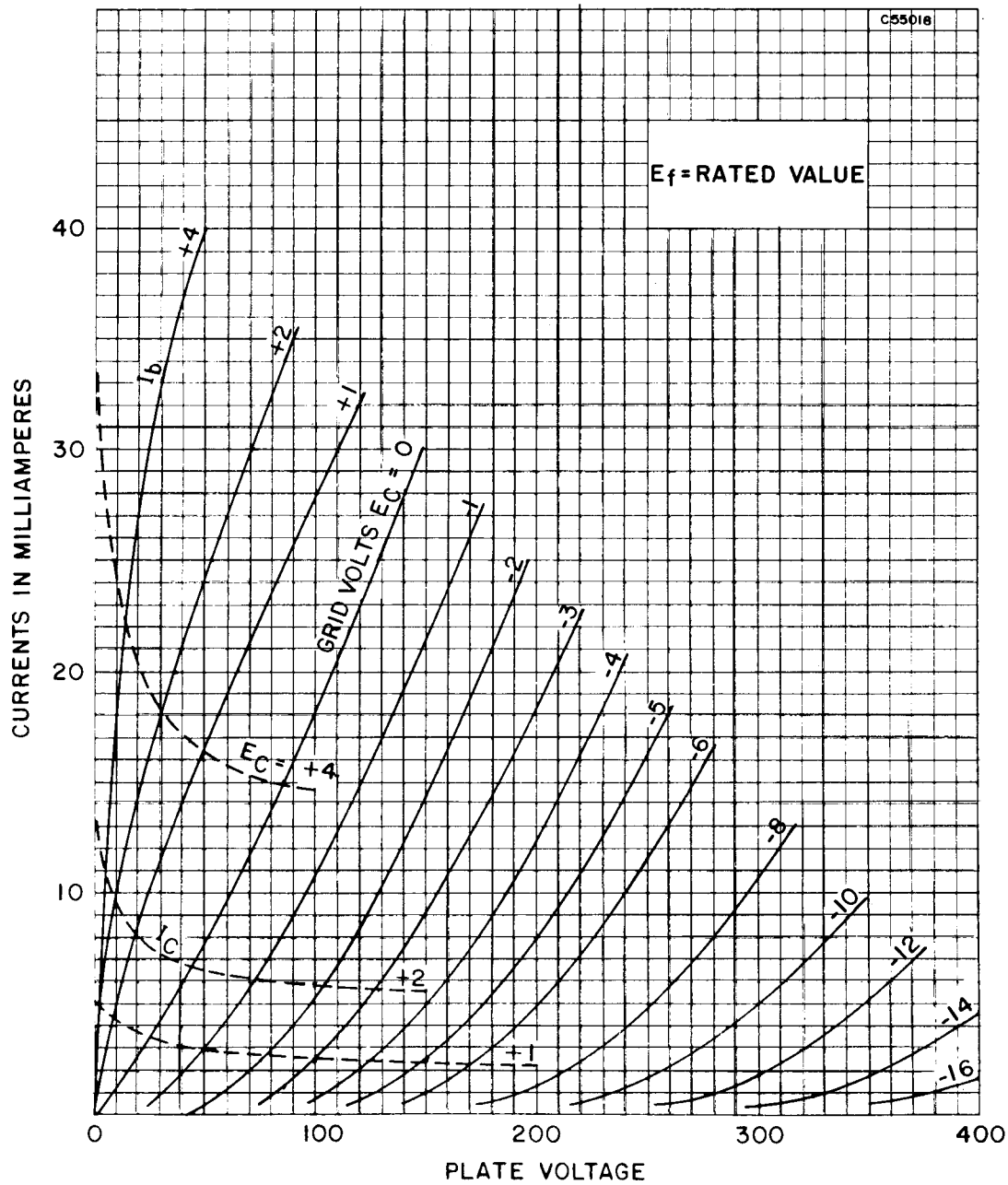
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CHARACTERISTICS Cont'd	Min.	Max.
Reverse Grid Current ^{2, 3} (Section in Parallel)		1.0 μ a
Cutoff Conditions:		
Grid Bias Voltage for $I_b = 100 \mu$ a ^{2, 4}		-10 Volts
Difference in Grid Bias Voltage Between Sections		1.0 Volts
Zero Bias Conditions (Each Section):		
Plate Current ^{2, 5}	4.8	5.5 Ma

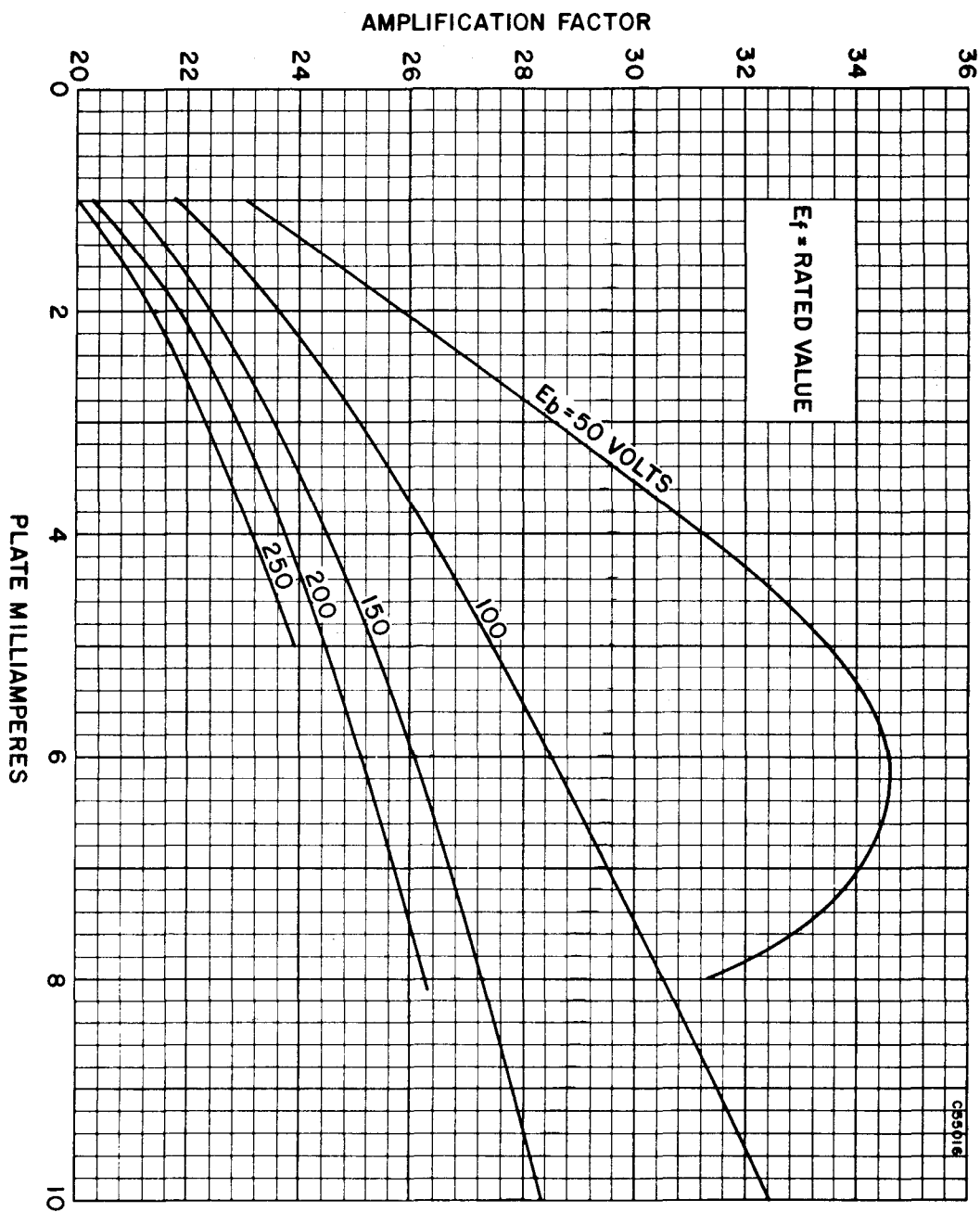
NOTES:

- 1. Section 1 connects to Pins 6, 7 and 8. Section 2 connects to Pins 1, 2 and 3.
- 2. With 12.6 volts ac or dc on heater (series arrangement).
- 3. For conditions with plate supply volts = 150, cathode bias resistor (ohms) = 470, grid circuit resistance (megohm) = 0.5. Unit not under test biased to cutoff.
- 4. For conditions with plate supply volts = 150, grid supply voltage adjusted to give plate current of 100 microamperes, plate circuit resistance (ohms) = 20,000, and grid circuit resistance (ohms) = 47,000. Unit not under test biased to cutoff.
- 5. For conditions with plate supply volts = 150, plate circuit resistance (ohms) = 20,000, grid circuit resistance (ohms) = 47,000, and grid bias volts = 0. Unit not under test biased to cutoff.

AVERAGE PLATE CHARACTERISTICS



AVERAGE TRANSFER CHARACTERISTICS



AVERAGE GRID CHARACTERISTICS

