

### MECHANICAL DATA

Bulb . . . . .	T-6½
Base . . . . .	Small Button 9-Pin
Basing . . . . .	9A
Cathode . . . . .	Unipotential
Mounting Position . . . . .	Any

### ELECTRICAL DATA

#### HEATER CHARACTERISTICS

Heater Voltage . . . . .	6.3	12.6 Volts
Heater Current . . . . .	0.45	0.225 Ampere
Heater-Cathode Voltage		
Heater Positive with Respect to Cathode		
DC Component . . . . .		90 Volts Max.
Total DC and Peak . . . . .		180 Volts Max.
Heater Negative with Respect to Cathode		
Total DC and Peak . . . . .		180 Volts Max.

#### DIRECT INTERELECTRODE CAPACITANCES (Unshielded)

Grid to Plate (Each Section) . . . . .	3.0 $\mu\text{f}$
Input (Each Section) . . . . .	3.8 $\mu\text{f}$
Output (Section 1) <sup>1</sup> . . . . .	0.5 $\mu\text{f}$
Output (Section 2) <sup>1</sup> . . . . .	0.38 $\mu\text{f}$
Plate to Plate . . . . .	0.5 $\mu\text{f}$

#### RATINGS (Design Center Values — Each Section)

Plate Voltage . . . . .	300 Volts Max.
Positive DC Grid Voltage . . . . .	0 Volt Max.
Plate Dissipation . . . . .	2.2 Watts Max.
Plate Dissipation (Both Plates) . . . . .	4.0 Watts Max.
Cathode Current . . . . .	15 Ma Max.
Grid Circuit Resistance	
Fixed Bias . . . . .	0.1 Megohm Max.
Cathode Bias . . . . .	0.5 Megohm Max.

#### AVERAGE CHARACTERISTICS (Each Section)

Plate Voltage . . . . .	150 Volts
Cathode Bias Resistor . . . . .	220 Ohms
Plate Current . . . . .	8.2 Ma
Plate Resistance, approximate . . . . .	7250 Ohms
Transconductance . . . . .	6500 $\mu\text{mhos}$
Amplification Factor . . . . .	47

#### TYPICAL OPERATION (Computer Service — Each Section)

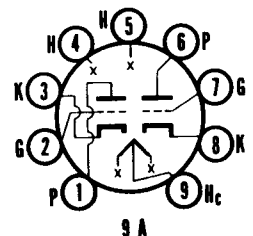
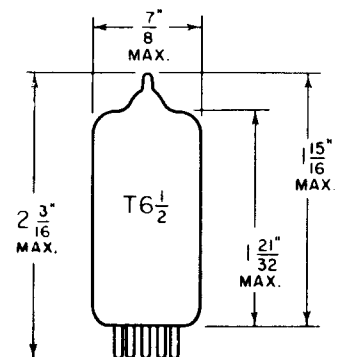
	On Condition	Off Condition
Plate Supply Voltage . . . . .	150	150 Volts
Plate Load Resistor . . . . .	7200	7200 Ohms
Grid Voltage . . . . .	0 <sup>2</sup>	— Volt
Plate Current, approximate . . . . .	10.5	— Ma
Grid Voltage		
I <sub>b</sub> = 150 Microampere <sup>3</sup> , approx. . . . .	—	-5.5 Volts

#### NOTES:

- Section 1 connects to pins 6, 7 and 8. Section 2 connects to pins 1, 2 and 3.
- Approximate value of grid voltage with grid current adjusted for approximately 140 microamperes.
- The grid voltage required to produce 150 microamperes in one section normally will not differ by more than 1.5 volts from the grid voltage required to produce 150 microamperes in the other section with a plate supply voltage of 150 volts and a plate load resistor of 7200 ohms.

### QUICK REFERENCE DATA

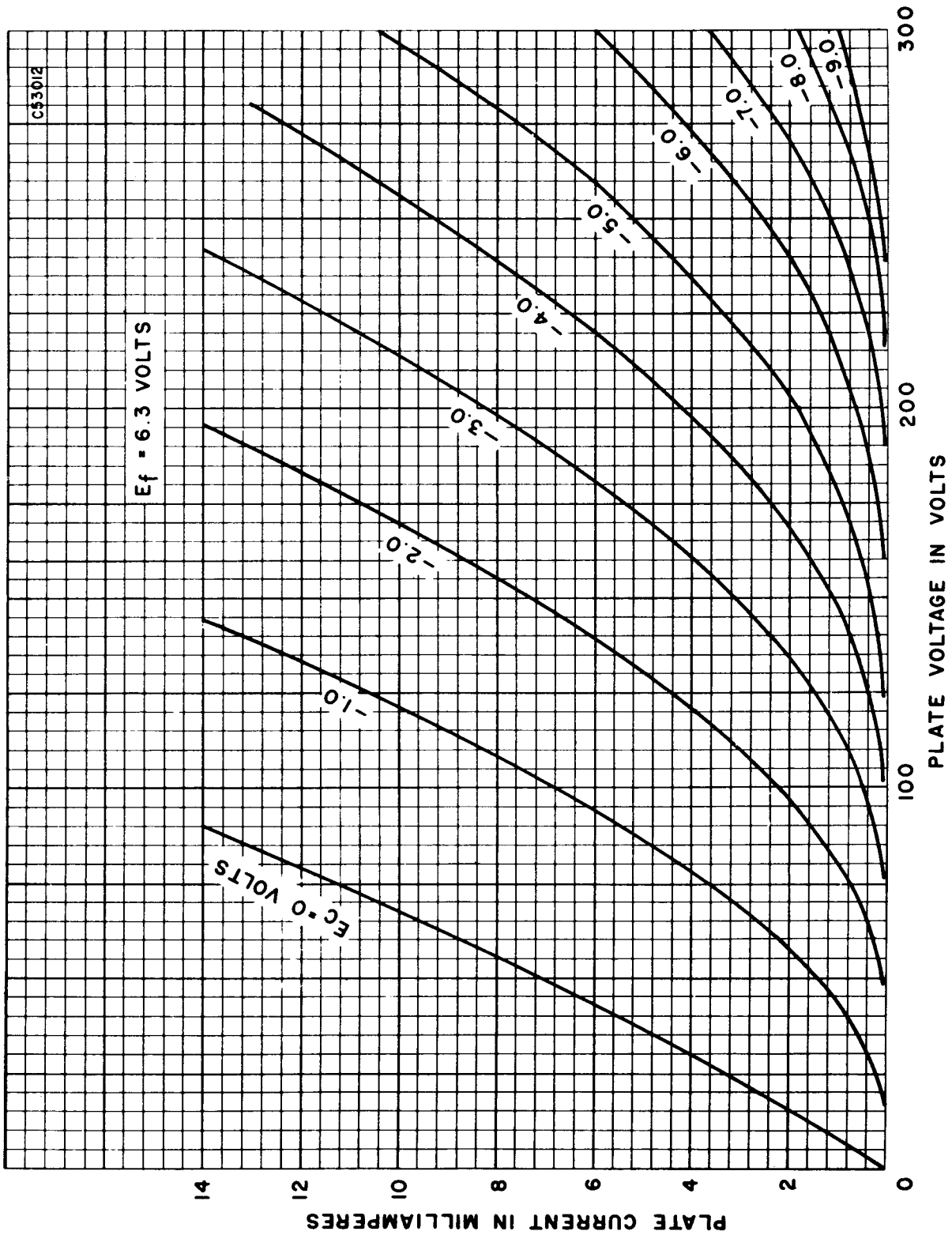
Miniature twin triode designed for use in high-speed digital computers. Each section features a high zero bias plate current, a sharp cut-off characteristic, and a separate cathode connection.



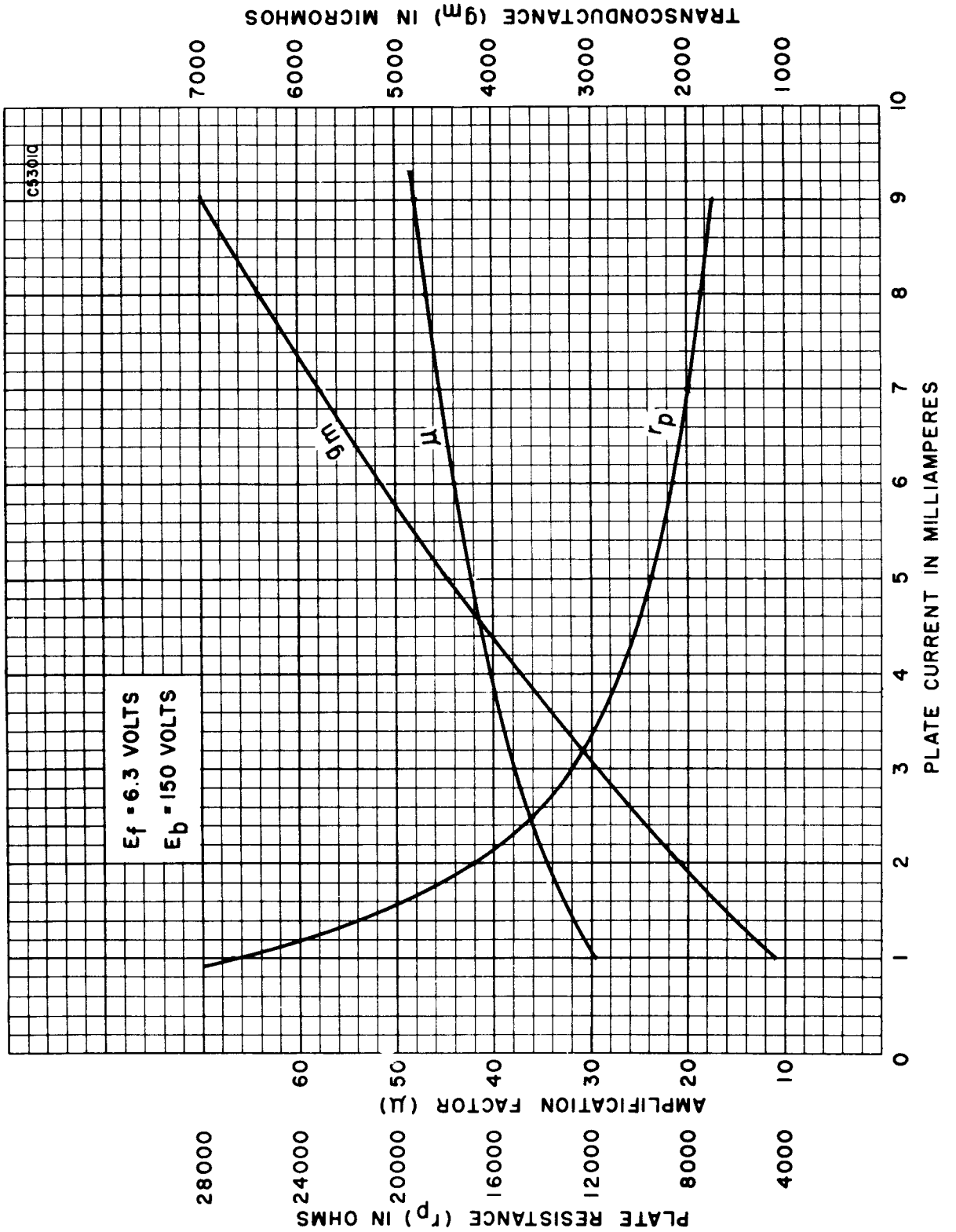
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AVERAGE PLATE CHARACTERISTICS



AVERAGE TRANSFER CHARACTERISTICS



AVERAGE CHARACTERISTICS

