

MECHANICAL DATA

Bulb	T-61½
Base	E9-1, Miniature Button 9-Pin
Outline	6-2
Basing	9A
Cathode	Coated Unipotential
Mounting Position	Any

ELECTRICAL DATA

HEATER CHARACTERISTICS

Heater Voltage Series/Parallel	12.6/6.3 Volts
Heater Current Series/Parallel	150/300 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

	Section 1 ¹		Section 2 ¹	
	Shielded ²	Unshielded	Shielded ²	Unshielded
Grid to Plate	1.7	1.7	1.7	1.7 $\mu\mu\text{f}$
Input g to (h+k)	1.8	1.6	1.8	1.6 $\mu\mu\text{f}$
Output p to (h+k)	1.9	0.46	1.9	0.34 $\mu\mu\text{f}$

RATINGS (Design Center Values) Each Section

Plate Voltage	300 Volts Max.
Plate Dissipation	1.0 Watt Max.
Positive Grid Voltage	0 Volts Max.
Negative Grid Voltage	-50 Volts Max.

CHARACTERISTICS AND TYPICAL OPERATION

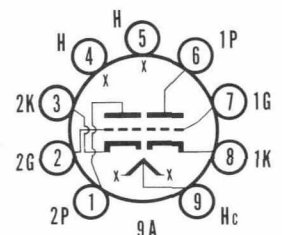
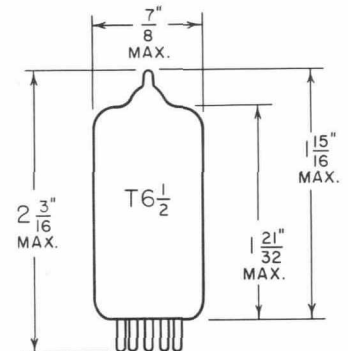
Class A ₁ Amplifier — Each Section			
Plate Voltage	100	250 Volts	
Grid Voltage	-1	-2 Volts	
Plate Current	0.5	1.2 Ma	
Transconductance	1250	1600 μmhos	
Amplification Factor	100	100	
Plate Resistance	80,000	62,500 Ohms	

EQUIVALENT NOISE AND HUM VOLTAGE

(Referenced to Grid — Each Unit)	
Average Value ³ (RMS)	1.8 μVolts
Maximum Value ⁴ (RMS)	7 μVolts

QUICK REFERENCE DATA

The Sylvania Type 7025 is a miniature high-mu twin triode having separate cathodes. It is designed for service as an audio voltage amplifier or phase inverter. The center tapped heater permits operation on 12.6 or 6.3 volts. The Type 7025 is identical to the 12AX7 except for improved noise and hum characteristics.



SYLVANIA ELECTRONIC TUBES

A Division of
SYLVANIA ELECTRIC PRODUCTS, Inc.

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EMPORIUM, PENNSYLVANIA

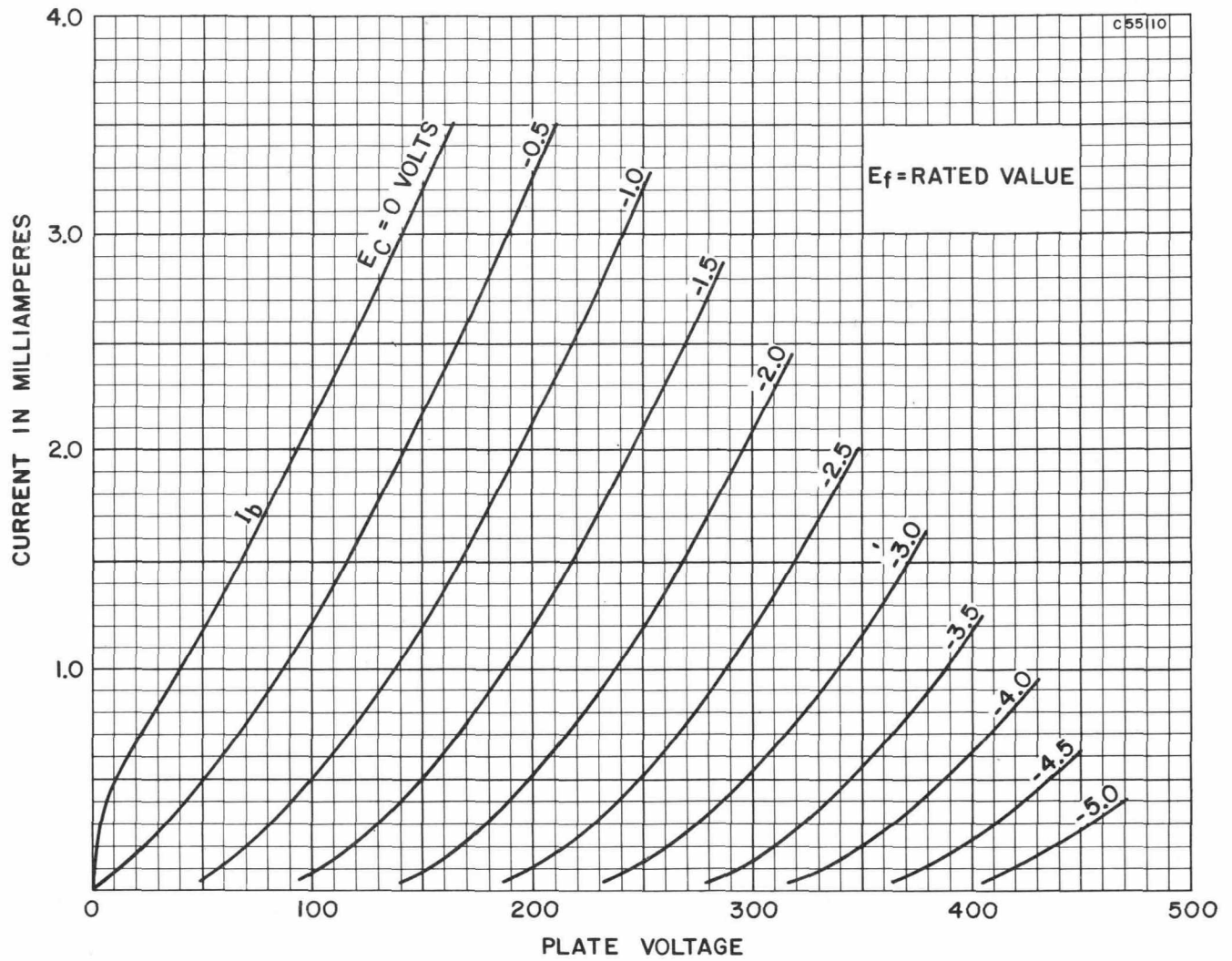
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NOTES:

1. *Section No. 1 connects to Pins 6, 7, and 8.
Section No. 2 connects to Pins 1, 2, and 3.*
2. *External shield No. 315 connected to cathode of section under test.*
3. *Measured under the following conditions: $E_f = 6.3$ Vac, parallel connection; center-tap of heater transformer grounded; $E_f = 250$ Vdc; $R_g = 0.1$ Megohm; $R_k = 2700$ Ohms; $C_k = 100$ μ f; $R_g = 0$; $F = 25$ to 10,000 cps.*
4. *Measured under same conditions as "Average Value" except that R_k is unbypassed and $R_g = 50,000$ Ohms.*

AVERAGE PLATE CHARACTERISTICS



AVERAGE TRANSFER CHARACTERISTICS

