

**MECHANICAL DATA**

Bulb . . . . .	T-6 $\frac{1}{2}$
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 <sup>1</sup>		Section 2 <sup>1</sup>		
	Shielded <sup>2</sup>	Unshielded	Shielded <sup>2</sup>	Unshielded	
Grid to Plate . . . . .	1.7	1.7	1.7	1.7	$\mu\mu f$
Input g to (h+k) . . . . .	1.8	1.6	1.8	1.6	$\mu\mu f$
Output p to (h+k) . . . . .	1.9	0.46	1.9	0.34	$\mu\mu f$

**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**

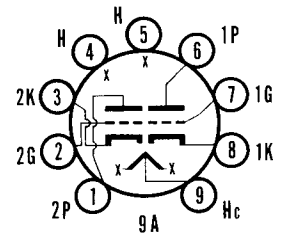
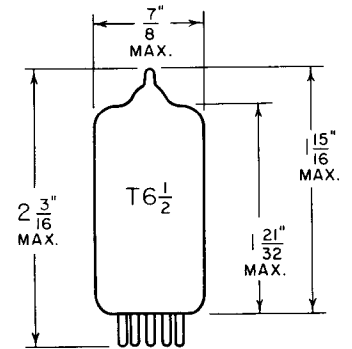
<b>Class A<sub>1</sub> Amplifier — Each Section</b>			
Plate Voltage . . . . .	100	250	Volts
Grid Voltage . . . . .	-1	-2	Volts
Plate Current . . . . .	0.5	1.2	Ma
Transconductance . . . . .	1250	1600	$\mu\text{mhos}$
Amplification Factor . . . . .	100	100	
Plate Resistance . . . . .	80,000	62,500	Ohms

**EQUIVALENT NOISE AND HUM VOLTAGE**

<b>(Referenced to Grid — Each Unit)</b>	
Average Value <sup>3</sup> (RMS) . . . . .	1.8 $\mu\text{Volts}$
Maximum Value <sup>4</sup> (RMS) . . . . .	7 $\mu\text{Volts}$

**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.

**RECEIVING TUBE  
OPERATIONS  
EMPORIUM, PENNSYLVANIA**

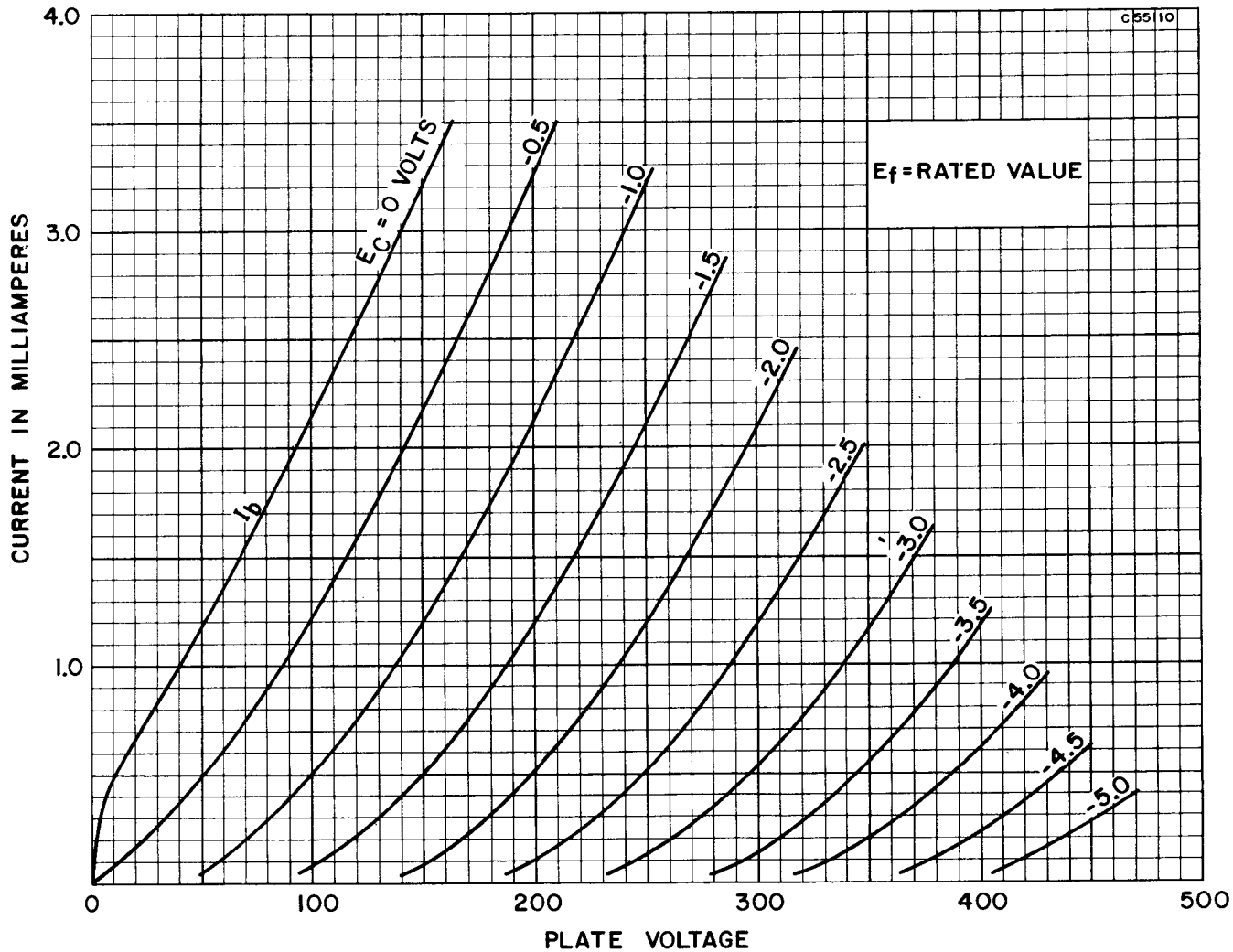
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**NOTES:**

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:  $E_f = 6.3 \text{ Vac}$ , parallel connection; center-tap of heater transformer grounded;  $E_f = 250 \text{ Vdc}$ ;  $R_g = 0.1 \text{ Megohm}$ ;  $R_k = 2700 \text{ Ohms}$ ;  $C_k = 100 \mu\text{f}$ ;  $R_g = 0$ ;  $F = 25 \text{ to } 10,000 \text{ cps}$ .
4. Measured under same conditions as "Average Value" except that  $R_k$  is unbypassed and  $R_g = 50,000 \text{ Ohms}$ .

AVERAGE PLATE CHARACTERISTICS



AVERAGE TRANSFER CHARACTERISTICS

