SYLVANIA

engineering data service

SYLVANIA
7025

MECHANICAL DATA

Bulb	T-6½
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	μμf
Input g to (h+k)	1.8	1.6	1.8	1.6	μμf
Output p to (h+k)	1.9	0.46	1.9	0.34	μμf

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

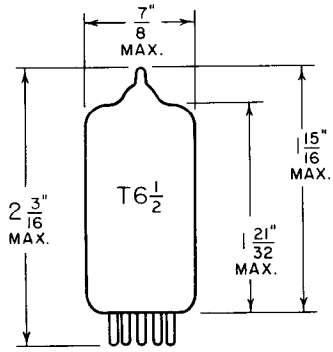
Class A_1 Amplifier — Each Section			
Plate Voltage	100	250	Volts
Grid Voltage	−1	−2	Volts
Plate Current	0.5	1.2	Ma
Transconductance	1250	1600	μmhos
Amplification Factor	100	100	
Plate Resistance	80,000	62,500	Ohms

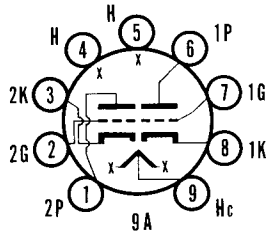
EQUIVALENT NOISE AND HUM VOLTAGE

(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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OPERATIONS
EMPORIUM, PENNSYLVANIA

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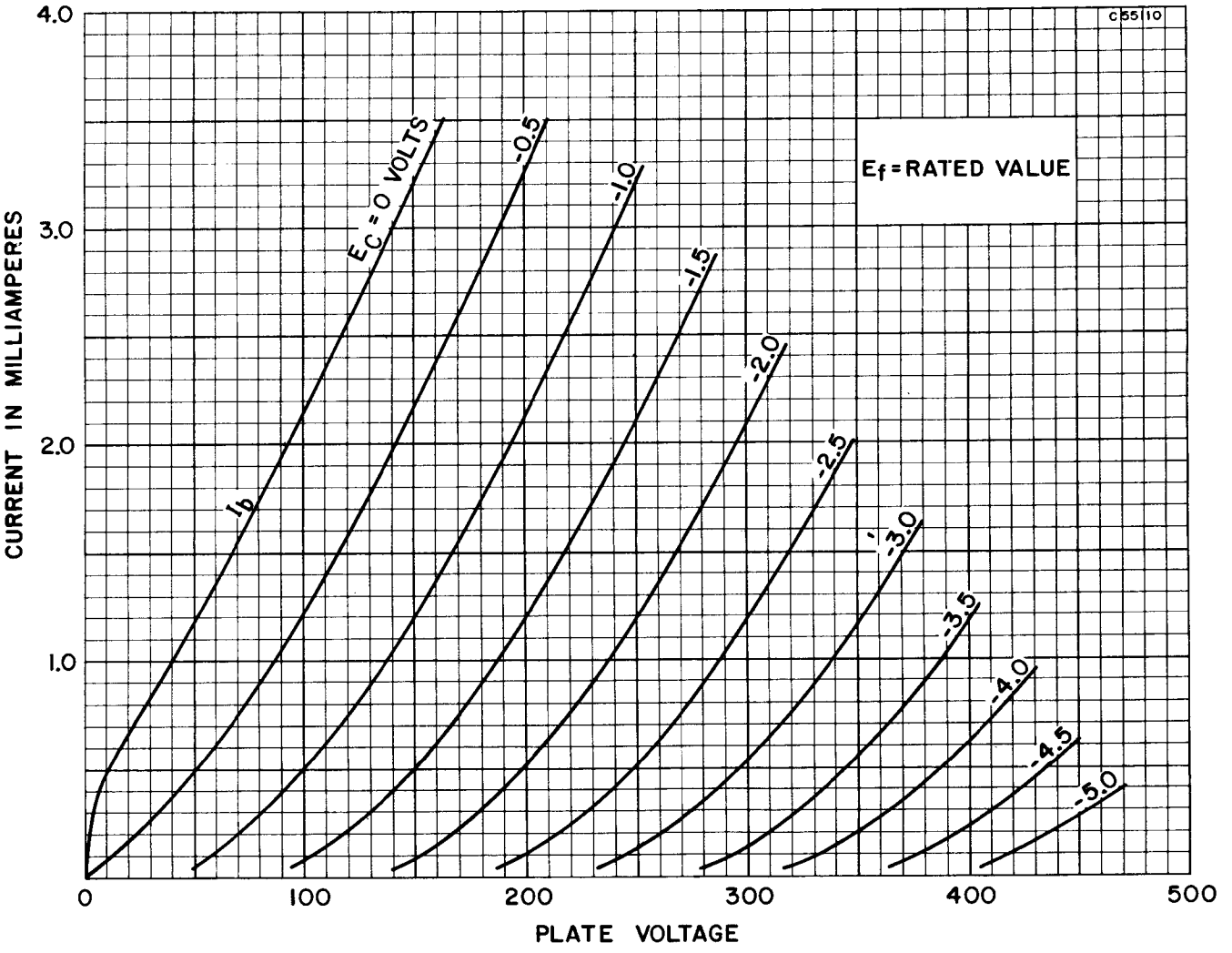
NOTES:

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: Ef = 6.3 Vac, parallel connection; center-tap of heater transformer grounded; Ef = 250 Vdc; Rg = 0.1 Megohm; Rk = 2700 Ohms; Ck = 100 μf; Rg = O; F = 25 to 10,000 cps.*
4. *Measured under same conditions as "Average Value" except that Rk is unbypassed and Rg = 50,000 Ohms.*

AVERAGE PLATE CHARACTERISTICS



AVERAGE TRANSFER CHARACTERISTICS