

TECHNICAL DATA

5640

Sylvania

TYPE 5640

BEAM POWER AMPLIFIER

TENTATIVE RATINGS

Heater Voltage AC or DC $\pm 10\%$	6.3	Volts
Max. Plate Voltage	150	Volts
Max. Screen Voltage	140	Volts
Max. Plate Dissipation	3.5	Watts
Max. Screen Dissipation	1.0	Watts
Max. Heater-Cathode Voltage	90	Volts

Direct Interelectrode Capacitances:

	Shielded ^o	Unshielded
Grid to Plate	0.18	0.26 $\mu\text{mf.}$
Input	9.0	9.0 $\mu\text{mf.}$
Output	7.0	4.0 $\mu\text{mf.}$

^oWith a 0.405" diameter shield connected to cathode.

TYPICAL OPERATING CONDITIONS

Heater Voltage	6.3	Volts
Heater Current	0.450	Amps
Plate Voltage	100	Volts
Screen Voltage	100	Volts
Grid Voltage ^{oo}	-9.0	Volts
Cathode Bias Resistor	270	Ohms
Plate Current (Zero Signal)	31	Ma.
Plate Current (Max. Signal)	32.0	Ma.
Screen Current (Zero Signal)	2.2	Ma.
Screen Current (Max. Signal)	9.0	Ma.
Transconductance	5000	μmhos
Plate Resistance	15,000	Ohms
Load Resistance	3000	Ohms
Power Output (Max. Signal)	1.25	Watts
Distortion	10	%

^{oo}Maximum grid circuit resistance should not exceed 0.10 megohm for fixed bias operation and 0.50 megohm for self bias operation.

CIRCUIT APPLICATION

Sylvania Type 5640 is a subminiature beam power output tube designed for use in compact, light-weight equipment.

Notes:

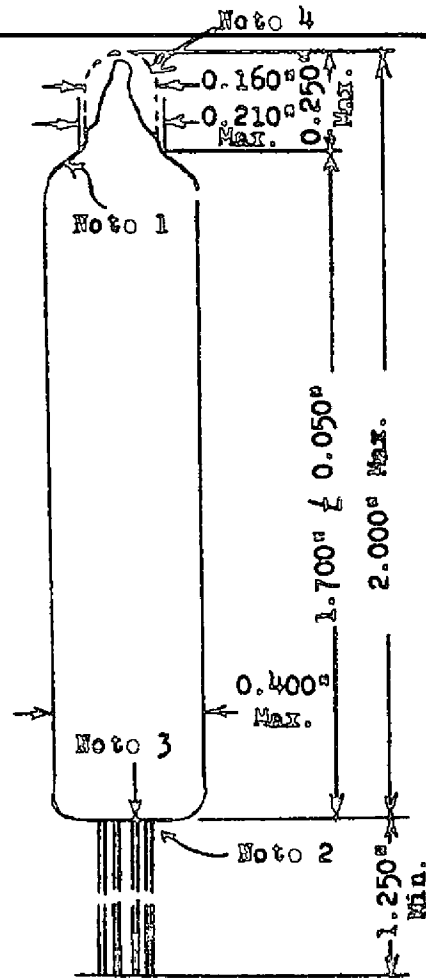
1. Reference diameter from which tip and bulb lengths are determined.
2. Avoid soldering leads closer than $\frac{1}{8}$ " from glass.
3. Arrow indicates position of plate lead.
4. All tips lie within dotted outline.
5. Avoid bending leads closer than 0.060" from glass.

PHYSICAL SPECIFICATIONS

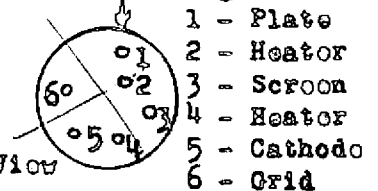
Style Subminiature
 Bulb T-3
 Base E8-10 Flexible Leads
 Dimensions See outline
 Mounting Position Any

LEAD CONNECTIONS

As per outline



Basings:



Bottom View of Base

8DE

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SYLVANIA ELECTRIC PRODUCTS INC.
 Emporium, Pennsylvania