

ADVANCE DATA

DESCRIPTION

The Sylvania SC-3369 is a 16" diameter, all glass cathode ray tube for character writing applications. Two pairs of electrostatic deflection plates are provided for character generation while character positioning is by means of magnetic deflection. The tube is electrostatically focused and has an aluminized screen.

CHARACTERISTICS

GENERAL DATA

Focusing Method	Electrostatic
Deflecting Method ¹	Electrostatic and Magnetic
Bulb	J127B
Phosphor Number	P7
Fluorescent Color	Blue
Phosphorescent Color	Yellow
Persistence	Long

ELECTRICAL DATA

Heater Voltage	6.3 Volts
Heater Current at 6.3 Volts	0.6 ± 10 % Ampere
Direct Interelectrode Capacitances (Approx.)	
Cathode to All Other Electrodes	3.8 pf
Grid No. 1 to All Other Electrodes	7.5 pf
D1 to D2	1.0 pf
D3 to D4	1.0 pf
D1 to All Other Electrodes	2.8 pf
D2 to All Other Electrodes	2.8 pf
D3 to All Other Electrodes	3.1 pf
D4 to All Other Electrodes	2.8 pf

RATINGS (Design Center Values)

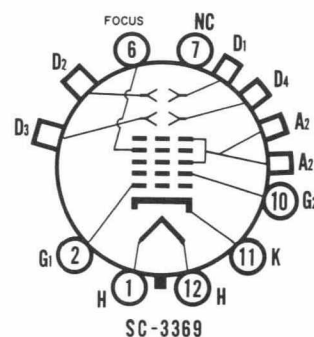
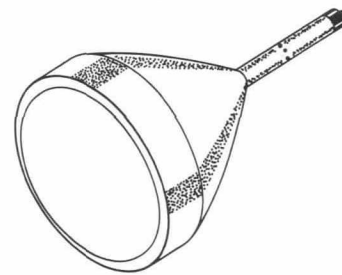
Accelerator Voltage	15,000 Volts dc	Max.
Accelerator Input	8 Watts	Max.
Focusing Electrode Voltage	5600 Volts dc	Max.
Grid No. 2 Voltage	700 Volts dc	Max.
Grid No. 1 Voltage		
Negative Bias Value	300 Volts dc	Max.
Positive Bias Value	0 Volt dc	Max.
Positive Peak Value	0 Volt	Max.
Peak Heater-Cathode Voltage		
Heater Negative with Respect to Cathode		
During Warm-up Period Not to Exceed		
15 Seconds	410 Volts	Max.
After Equipment Warm-up Period	180 Volts	Max.
Heater Positive with Respect to Cathode	180 Volts	Max.
Peak Voltage Between Accelerator and		
Any Deflection Electrode	500 Volts	Max.

TYPICAL OPERATING CONDITIONS

Accelerator Voltage	12,000 Volts dc
Focusing Electrode Voltage	3000 to 4400 Volts dc
Grid No. 2 Voltage	400 Volts dc
Grid No. 1 Voltage ³	-35 to -70 Volts dc
Modulation ²	30 Volts
Line Width "A" ²	0.012 Inch
Deflection Factors	
D1 and D2	315 to 385 Volts dc/Inch
D3 and D4	330 to 410 Volts dc/Inch
Focusing Electrode Current For Any Operating Condition	-10 to +5 μ A
Spot Position (Focused and Undelected) ⁴	Within a 25 mm Square
Maximum Grid No. 2 Current For Any Operating Position	5 μ A

QUICK REFERENCE DATA

Character Writing Tube
16" Diameter
Electrostatic and Magnetic
Deflection
Electrostatic Focus
Aluminized Screen



SYLVANIA ELECTRIC PRODUCTS INC.

Electronic Components Group
ELECTRONIC TUBE DIVISION
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File Under

SPECIAL AND GENERAL
PURPOSE CATHODE RAY TUBES

MAXIMUM CIRCUIT VALUES

Grid No. 1 Circuit Resistance	1.5 Megohms Max.
Resistance in Any Deflecting-Electrode Circuit ⁵	5.0 Megohms Max.

NOTES:

1. The electrostatic deflection plates are designed to form a $\frac{1}{2}$ inch square raster which can be deflected to any portion of the screen by the magnetic deflection yoke. Larger rasters may be used with a corresponding decrease in magnetic deflection area.
2. Measured in accordance with MIL-E-1 specifications, with $I_b = 25 \mu A$.
3. Visual extinction of the undeflected focused spot.
4. Connect deflecting electrodes to accelerator.
5. It is recommended that the deflecting electrode-circuit resistances be approximately equal.

OUTLINE

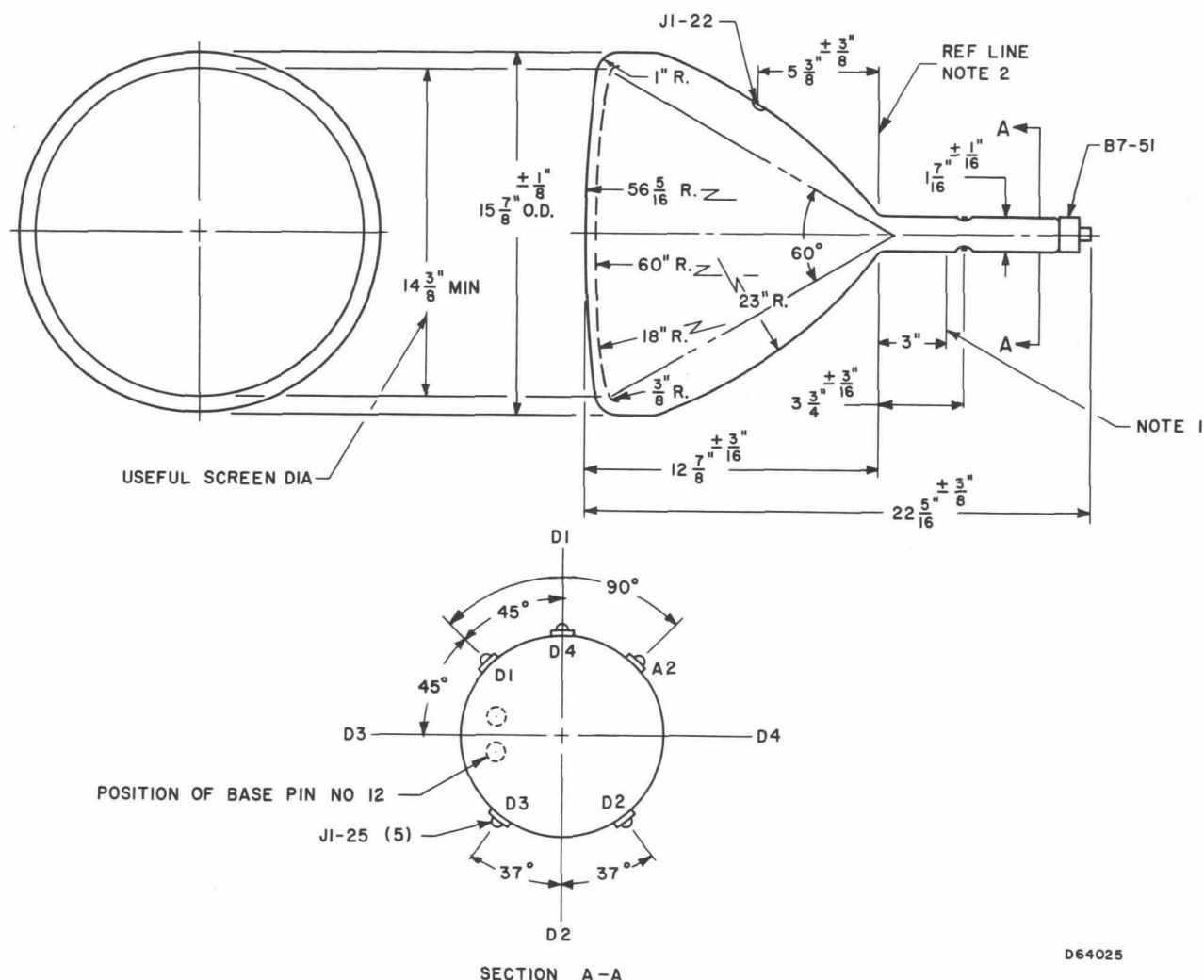


DIAGRAM NOTES:

1. The magnetic deflection field should not extend below this line.
2. Point where JEDEC G-112 reference line gauge will stop.