



DESCRIPTION

The Sylvania SC-3557 is an ultra compact, magnetically deflected and low voltage electrostatically focused cathode ray tube. The screen, a special blend of phosphors, is aluminized, permitting its use in very high ambient light applications such as cockpit displays in high altitude fighter aircraft. Typical resolution is 150 lines per inch.

CHARACTERISTICS

GENERAL DATA

Focus Method	Electrostatic
Deflection Method	Magnetic
Phosphor, Aluminized	Modified P20
Face Plate	Gray, Non Browning

MECHANICAL DATA

Overall Length	5 $\frac{7}{8}$ Inches
Neck Diameter	0.870
Face Diameter	3 Inches
Bulb Contact	Potted Anode Connector
Base	E9-37
Basing	9HT
Weight (Approx.)	8 Ozs.

MAXIMUM RATINGS (Absolute Maximum Values)

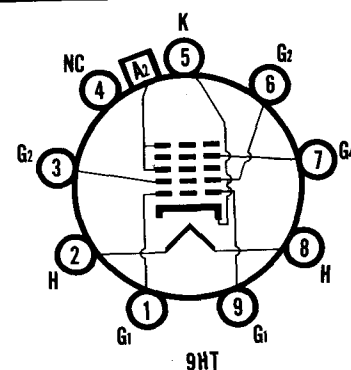
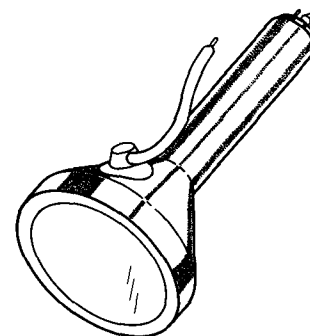
Anode Voltage	17,500 Volts
Focus Electrode Voltage	1100 Volts
Grid No. 2 Voltage	770 Volts
Grid No. 1 Voltage	0 to -150 Volts

TYPICAL OPERATING CONDITIONS

Heater Voltage	6.3 Volts
Anode Voltage	15 KV
Focus Voltage	-100 to +300 Volts
Grid No. 2 Voltage	500 Volts
Grid No. 1 Voltage for Cutoff	-33 to -77 Volts
Line Width @ 100 μ a	0.008 Inches Max.
Light Output @ 100 μ a (full screen raster)	600 FTL Min.

QUICK REFERENCE DATA

3" Round Glass Type
Compact Design
High Brightness
Aluminized Screen with Special
Phosphor Blend
Magnetic Deflection
Low Voltage Electrostatic Focus
Small (.840") Neck Diameter



SYLVANIA ELECTRIC
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Electronic Components Group
ELECTRONIC TUBE DIVISION
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File Under

SPECIAL AND GENERAL
PURPOSE CATHODE RAY TUBES

Technical drawing of a mechanical part, showing a cross-section and a side view.

Cross-section (Left):

- Outer diameter: $2\frac{1}{2}$ DIA.
- Inner diameter: $3 \pm \frac{1}{16}$ DIA.
- Label: MIN. USEFUL SCREEN
- Part number: D63007

Side View (Right):

- Overall length: 24"
- Inner diameter: $.840 \begin{smallmatrix} +.060 \\ -.030 \end{smallmatrix}$ DIA.
- Feature: CD LINE
- Length from centerline to end: $2\frac{1}{8} \pm \frac{3}{16}$
- Maximum length: $\frac{7}{16}$ MAX
- Overall length from centerline to end: $5\frac{7}{8} \pm \frac{1}{4}$