

**DESCRIPTION**

The Sylvania Type SC-3304 is a cathode ray tube with a fiber optics strip inserted into the faceplate. This tube is designed for high resolution photographic recording. The fiber optics strip has an active area 2<sup>3</sup>/<sub>4</sub>" long by 1/4" wide. The electron-optical system and fine grain screen achieve very fine trace width with conventional focusing and deflection units and a simple beam-centering magnet.

**CHARACTERISTICS**

**GENERAL DATA**

Focusing Method . . . . .	Magnetic
Deflection Method . . . . .	Magnetic
Deflection Angle (Approx.) . . . . .	30 Degrees
Phosphor* . . . . .	Fine Grain P11, Aluminized
Fluorescence . . . . .	Blue
Persistence . . . . .	Short
Faceplate . . . . .	Fiber Optics

\*In addition to the phosphor shown, the SC-3304 can be supplied with several other screen phosphors.

**ELECTRICAL DATA**

Heater Voltage . . . . .	6.3 Volts
Heater Current . . . . .	0.6 ± 10 % Ampere
Direct Interelectrode Capacitances (Approx.)	
Grid No. 1 to All Other Electrodes . . . . .	9 pf
Cathode to All Other Electrodes . . . . .	4 pf

**MECHANICAL DATA**

Minimum Useful Fiber Optics Screen Size . . . . .	2 <sup>3</sup> / <sub>4</sub> " x 1/4"
Overall Length . . . . .	16 ± 3/8 Inches
Base . . . . .	B8-181
Basing . . . . .	See Diagram

**RATINGS**

**MAXIMUM RATINGS (Absolute Maximum Values)**

Anode Voltage . . . . .	25,000 Volts dc
Grid No. 2 Voltage . . . . .	2500 Volts dc
Grid No. 1 Voltage	
Negative Bias Value . . . . .	150 Volts dc
Positive Bias Value . . . . .	0 Volt
Positive Peak Value . . . . .	0 Volt
Peak Heater Cathode Voltage	
Heater Negative with Respect to Cathode	
During Warm-up Period Not to	
Exceed 15 Seconds . . . . .	450 Volts
After Equipment Warm-up Period . . . . .	165 Volts
Heater Positive with Respect to Cathode . . . . .	165 Volts

**TYPICAL OPERATING CONDITIONS**

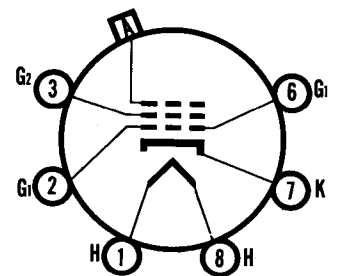
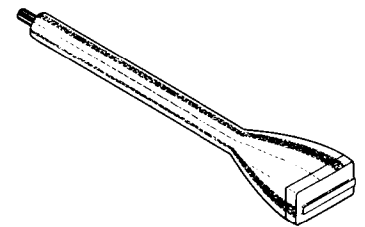
Anode Voltage . . . . .	20,000 Volts dc
Grid No. 2 Voltage . . . . .	2000 Volts dc
Grid No. 1 Voltage Required for Cutoff <sup>1</sup> . . . . .	-33 to -77 Volts dc
Focusing Coil Current (Approx.) <sup>2</sup> . . . . .	100 Ma
Line Width <sup>3</sup> . . . . .	0.001 Inch

**CIRCUIT VALUES**

Grid No. 1 Circuit Resistance . . . . .	1.5 Megohms Max.
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**QUICK REFERENCE DATA**

- High Resolution Tube
- .001" Line Width
- Fiber Optics Strip  
(inserted in faceplate)
- Extremely Fine Grain Screen
- Magnetic Deflection
- Magnetic Focus
- No Ion Trap
- Aluminized Screen



SC-3304

**SYLVANIA ELECTRIC PRODUCTS INC.**

Electronic Components Group  
ELECTRONIC TUBE DIVISION  
SENECA FALLS, NEW YORK

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PAGE 1 OF 2

*File Under*

SPECIAL AND GENERAL  
PURPOSE CATHODE RAY TUBES

