

CHARACTERISTICS

GENERAL DATA

Focusing Method	Electrostatic
Deflecting Method	Electrostatic
Phosphor*	P7
Fluorescence	Blue-White
Phosphorescence	Yellow
Persistence	Long
Faceplate	Gray Filter Glass

*In addition to the P7 screen shown, the SC-2558 can be supplied with several other screen phosphors.

ELECTRICAL DATA

Heater Voltage	6.3 Volts
Heater Current	$0.6 \pm 10\%$ Amperes
Direct Interelectrode Capacitances (Approx.)	
Cathode to All Other Electrodes	10 $\mu\mu\text{f}$
Grid No. 1 to All Other Electrodes	8 $\mu\mu\text{f}$
Between Deflecting Plates 1-2	4 $\mu\mu\text{f}$
Between Deflecting Plates 3-4	2 $\mu\mu\text{f}$
Deflecting Plate 1 to All Other Electrodes Except D2	8 $\mu\mu\text{f}$
Deflecting Plate 2 to All Other Electrodes Except D1	8 $\mu\mu\text{f}$
Deflecting Plate 3 to All Other Electrodes Except D4	6 $\mu\mu\text{f}$
Deflecting Plate 4 to All Other Electrodes Except D3	6 $\mu\mu\text{f}$

MECHANICAL DATA

Minimum Useful Screen Diameter	11 Inches
Bulb Contact (Recessed Small Cavity Cap)	J1-21
Base (Medium Shell Diheptal 12-Pin)	B12-37
Basing	14J
Weight (Approx.)	12 Pounds
J1-21 Contact Aligns with Trace D1-D2	± 10 Degrees
J1-21 Contact Aligns with Pin No. 5	± 10 Degrees
Positive Voltage on D1 Deflects Beam	
Approx. Toward Pin No. 5	
Positive Voltage on D3 Deflects Beam	
Approx. Toward Pin No. 1	

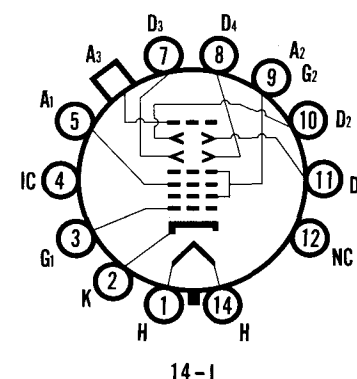
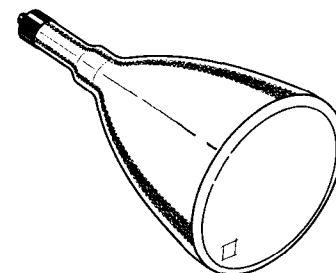
RATINGS

MAXIMUM RATINGS (Absolute Maximum Values)

Anode Input ¹	6 Watts
Anode No. 3 Voltage	12,000 Volts dc
Anode No. 2 Voltage	6,000 Volts dc
Anode No. 1 Voltage	2,500 Volts dc
Grid No. 1 Voltage	
Negative Bias Value	200 Volts dc
Positive Bias Value	0 Volts dc
Positive Peak Value	2 Volts
Peak Heater-Cathode Voltage	
Heater Negative with Respect to Cathode	200 Volts
Heater Positive with Respect to Cathode	200 Volts
Peak Voltage Between Anode No. 2	
And Any Deflecting Plate	750 Volts
Ratio Post Accelerator Voltage to	
Anode Voltage	2.3:1

QUICK REFERENCE DATA

Oscilloscope Tube
12" Direct Viewed
Round Glass Type
Electrostatic Deflection
Electrostatic Focus
Post Deflection
Acceleration



SYLVANIA ELECTRONIC TUBES

A Division of
Sylvania Electric Products Inc.

PICTURE TUBE OPERATIONS SENECA FALLS, NEW YORK

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File Under

SPECIAL AND GENERAL PURPOSE
CATHODE RAY TUBES

TYPICAL OPERATING CONDITIONS

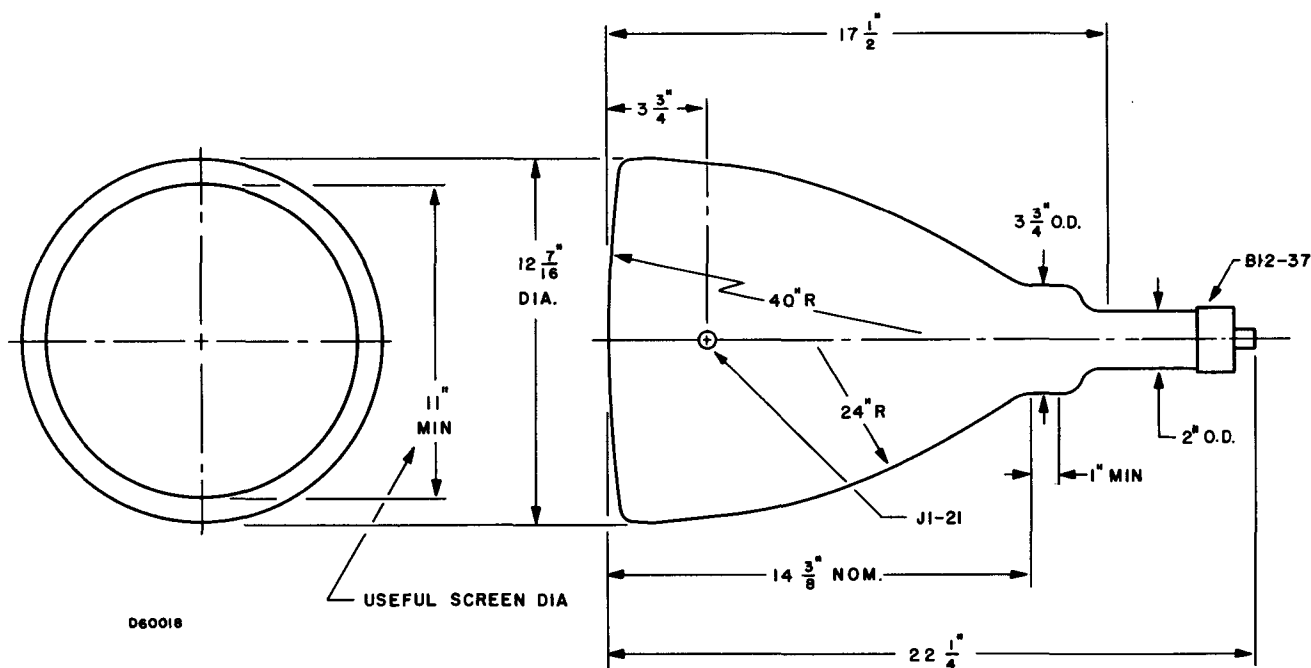
Anode No. 3 Voltage	10,000 Volts	dc
Anode No. 2 Voltage	5,000 Volts	dc
Anode No. 1 Voltage for Focus	1300 to 2200 Volts	dc
Grid No. 1 Voltage Required for Cutoff ²	-60 to -100 Volts	dc
Deflection Factor ³		
Deflecting Plates 1-2	105 to 145 Volts	dc/Inch
Deflecting Plates 3-4	80 to 115 Volts	dc/Inch
Modulation ⁴	30 Volts	Max.
Line Width "A" ⁴	.5 mm	
Focus Electrode Current ⁴	-15 to +10 μ a	dc
Spot Position, Undelected	Within 30 mm	Square
Angle Between D1-D2 Trace and D3-D4 Trace	90 $\pm$ 2	Degrees

CIRCUIT VALUES

Grid No. 1 Circuit Resistance	1.5 Megohms Max.
Resistance in Any Deflection Plate Circuit	5.0 Megohms Max.

NOTES:

1. Anode input equals the product of anode No. 2 voltage and average anode No. 2 current.
2. For visual extinction of undeflected focused spot.
3. Deflection plates 1 and 2 are nearer the screen. Plates 3 and 4 are more sensitive and with post acceleration may produce less than full screen coverage.
4. Measured in accordance with MIL-E-1C specification at a post accelerator current (1A3) equal to 25 μ a.



X-RAY WARNING:

X-ray radiation shielding may be necessary to protect against possible danger of personal injury from prolonged exposure at close range if this tube is operated at higher than the manufacturer's maximum anode voltage or 16,000 volts, whichever is less.