



CHARACTERISTICS

GENERAL DATA

Focusing Method	Electrostatic
Deflection Method	Magnetic
Deflection Angle (Approx.)	50 Degrees
Phosphor*	P4
Fluorescence	White
Phosphorescence	White
Persistence	Med. Short

*In addition to the phosphors shown the SC-3122 can be supplied with several other phosphors.

ELECTRICAL DATA

Heater Voltage	6.3 Volts
Heater Current	$0.6 \pm 10\%$ Ampere
Direct Interelectrode Capacitances (Approx.)	
Cathode to All Other Electrodes	5 pf
Grid No. 1 to All Other Electrodes	6 pf

MECHANICAL DATA

Minimum Useful Screen Diameter	9 Inches
Bulb Contact (Recessed Small Cavity Cap)	J1-21
Base (Small Shell Duodecal 6-Pin)	B6-63
Basing	12M
Bulb Contact Aligns with Vacant Pin	
Position No. 3	± 10 Degrees

MAXIMUM RATINGS (Absolute Maximum Values)

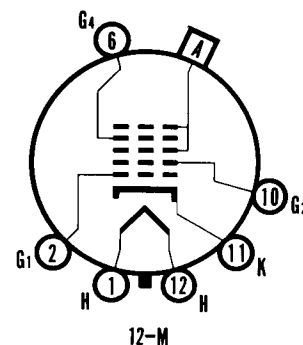
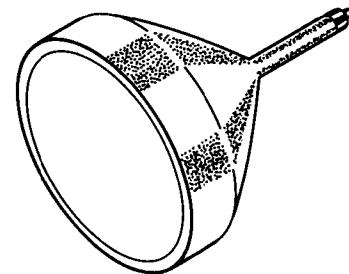
Anode Voltage	22,000 Volts	dc
Grid No. 4 Voltage (Focusing Electrode)	-550 to 1100 Volts	dc
Grid No. 2 Voltage	770 Volts	dc
Grid No. 1 Voltage		
Negative Bias Value	200 Volts	dc
Positive Bias Value ¹	0 Volt	dc
Positive Peak Value	0 Volt	
Peak Heater-Cathode Voltage		
Heater Negative with Respect to Cathode	200 Volts	dc
Heater Positive with Respect to Cathode	200 Volts	dc

TYPICAL OPERATING CONDITIONS

Anode Voltage ²	20,000 Volts	dc
Grid No. 4 Voltage for Focus ³	0 to 300 Volts	dc
Grid No. 2 Voltage	300 Volts	dc
Grid No. 1 Voltage for Cutoff ⁴	-28 to -72 Volts	dc
Resolution at $I_b = 50 \mu a$	700 Lines	Min.

QUICK REFERENCE DATA

Monitor Tube
Electrostatic Focus
Magnetic-Deflection
10" Diameter
Flat Face



SYLVANIA ELECTRIC
PRODUCTS INC.

Electronic Components Group
ELECTRONIC TUBE DIVISION
SENECA FALLS, NEW YORK

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File Under

SPECIAL AND GENERAL
PURPOSE CATHODE RAY TUBES

MAXIMUM CIRCUIT VALUE

Grid No. 1 Circuit Resistance 1.5 Megohms Max.

NOTES:

1. At or near this rating, the effective resistance of the anode supply should be adequate to limit the anode input power to 6 watts. To prevent burning, minimum beam current densities should be employed.
2. Brilliance and definition decrease with decreasing anode voltage. In general, anode voltage should not be less than 7,000 volts.
3. With Eg1 adjusted for $I_b = 50$ microamperes.
4. Visual extinction of focused raster. Extinction of stationary focused spot will require values of about 5 volts more negative.

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 Rated Anode Voltage or 16,000 volts, whichever is less.

OUTLINE

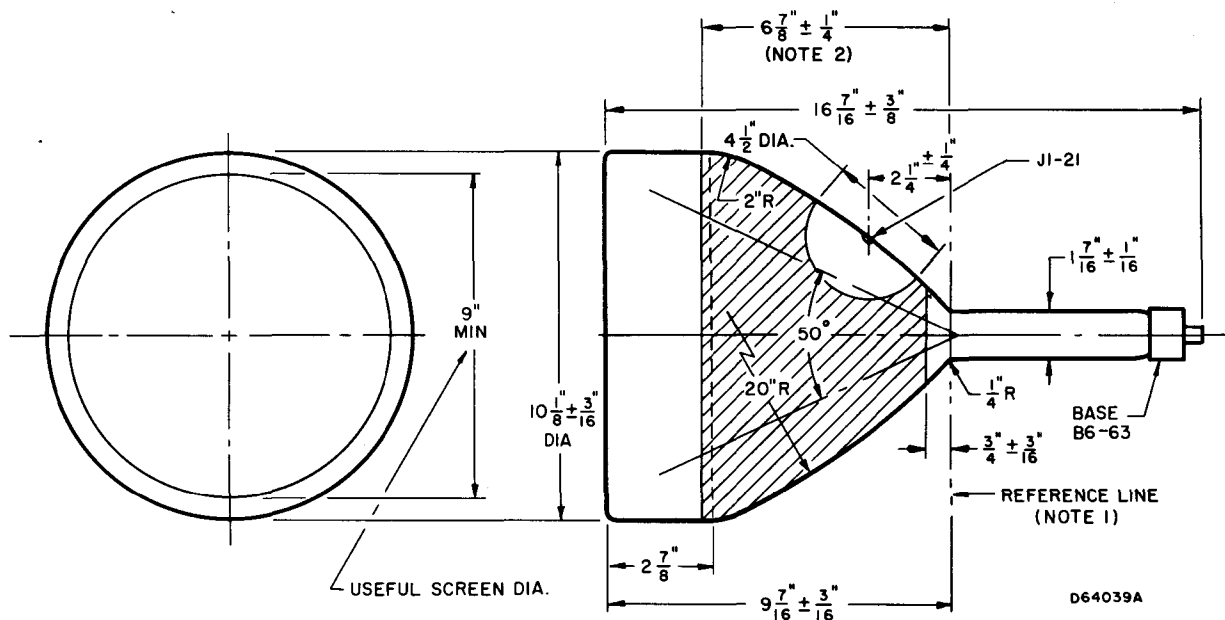


DIAGRAM NOTES:

1. Reference line is the point where a $1.500'' \pm .003''$ diameter ring gauge 2" long will stop against the bulb.
— .000"
2. With external conductive coating, tube is designated as the SC3122P-A. Capacitance value will be between 500 pf and 2500 pf