

DESCRIPTION

A flat face 5" high resolution electrostatically deflected and focused cathode ray tube. Monoaccelerator construction is employed for maximum resolution and minimum deflection defocusing and pattern distortion. Deflection electrodes are brought out through the neck wall to minimize lead inductance and capacitance.

CHARACTERISTICS

GENERAL DATA

Focus Method	Electrostatic
Deflection Method	Electrostatic
Phosphor*	P11

*The tube can be supplied in any of several standard phosphors if required.

ELECTRICAL DATA

Heater Voltage	6.3 Volts
Heater Current	0.600 ± 10 % Ampere

MECHANICAL DATA

Overall Length	18 ⁵ / ₈ ± 3 ³ / ₈ Inches
Face to Neck Contacts	11 ¹ / ₄ ± 1 ¹ / ₄ Inches
Neck Diameter	2 Inches
Face Diameter	5 Inches
Base	B12-37
Medium Shell Diheptal	12 Pin
Neck Buttons (7)	J1-25

- 4 Deflection Plates
- 1 A2 Contact
- 1 Focus Contact
- 1 Astigmatism

Bulb	J42P
Basing	See Diagram
Trace Angle Between 1D2 and 3D4 Traces	90 ± 1 Degree

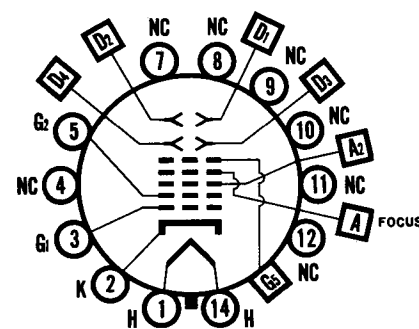
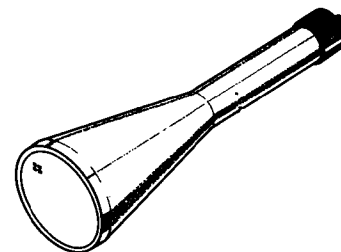
Dynamic Focusing is Recommended for Optimum Operation.

MAXIMUM RATINGS

Anode A2 Voltage	11 Kv
Anode A1 Voltage	6 Kv
G2 Voltage	4 Kv
Grid No. 1 Voltage	
Negative Bias Value	220 Volts
Positive Bias Value	0 Volt
Positive Peak Value	2 Volts
Peak Heater Cathode Voltage	
Heater Negative with Respect to Cathode	200 Vdc
Heater Positive with Respect to Cathode	0 Vdc
Peak Voltage Between Anode No. 2 and	
Any Deflection Plate	800 Vdc

QUICK REFERENCE DATA

- High Resolution for Photographic Recording
- 5" Flat Face
- High Resolution
- Electrostatic Focus
- Electrostatic Deflection
- Monoaccelerator Construction
- Deflection Contacts Brought Out Through Neck
- SC-3195B—Aluminized Screen



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PAGE 1 OF 2

File Under

SPECIAL AND GENERAL PURPOSE CATHODE RAY TUBES

TYPICAL OPERATING CONDITIONS

A2 Voltage	10,000 Volts DC
Astigmatism Voltage (G5)	10,000 ± 50 Volts
A1 Voltage (Focus)	4500-5500 Volts DC
G2 Voltage	2000 Volts DC
G1 Voltage for Cutoff	150 ± 20 % Volts
Deflection Factors	
1D2	285 ± 20 % Volts/In.
3D4	150 ± 20 % Volts/In.
Scan Size Minimum	
1D2	4 Inches
3D4	4 Inches
Line Width at 20 Volts Drive	0.003 Inches
Undelected Spot Position	15 MM Sq.

GENERAL CONSTRUCTION AND QUALITY

The tube will be constructed and tested to comply with the applicable MIL-E-1D specifications.

