

engineering data service 14SP4

CHARACTERISTICS

GENERAL DATA	
Focusing Method Electrostatic Deflection Method	
Horizontal	
Light Transmittance (approx.)	
ELECTRICAL DATA	
Heater Voltage	
900 μμf Min. Ion Trap Magnet External, Single Field Type	
MECHANICAL DATA	
Minimum Useful Screen Dimensions	
(Maximum Assured) $12 \times 9\frac{7}{16}$ InchesMinimum Useful Screen Area 103 Sq. Inches Bulb Contact (Recessed Small Cavity Cap) $J1-21$ Base (Small Shell Duodecal 6-Pin) $B6-63$	
Basing	
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RATINGS	
RATINGS MAXIMUM RATINGS (Absolute Maximum Values)	
RATINGS MAXIMUM RATINGS (Absolute Maximum Values) Anode Voltage	
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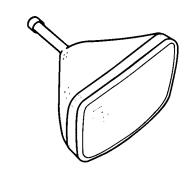
1. Heater warm-up time is the time required for the voltage across the heater terminals

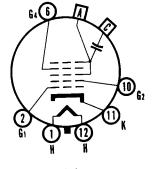
R = 31.5 ohms.

to increase to 5.0 volts in the JETEC test circuit, with E = 25 volts and series

QUICK REFERENCE DATA

Television Picture Tube 14" Direct Viewed Rectangular Glass Type Spherical Faceplate Gray Filter Glass Magnetic Deflection Electrostatic Focus Single Field Ion Trap **External Conductive Coating** Aluminized Screen





12-L

SYLVANIA ELECTRIC PRODUCTS INC.

TELEVISION PICTURE TUBE **DIVISION**

SENECA FALLS, NEW YORK

Prepared and Released By The TECHNICAL PUBLICATIONS SECTION EMPORIUM, PENNSYLVANIA

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- 2. External conductive coating must be grounded.
- 3. Visual extinction of focused raster. Extinction of stationary focused spot will require that these values be about 5 volts more negative.
- 4. For JETEC Ion Trap Magnet No. 117 with pole pieces centered over Grid No. 2 on mount, and rotated for maximum brightness.
- 5. For typical PM ion trap magnet with field strength tolerance of ± 3 gausses.

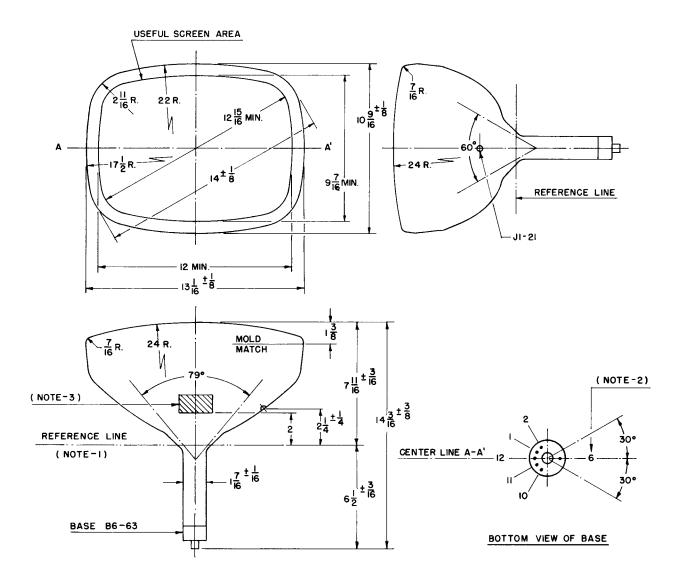


DIAGRAM NOTES:

- 1. Reference line is determined by the plane C-C' of the reference line gauge (JETEC No. 116) when the gauge is resting on the glass cone.
- 2. Base pin No. 6 aligns with anode contact terminal J1-21 within 30 degrees.
- 3. Contact area for external conductive coating, 2" x 2", located 90 degrees counterclockwise from anode contact as viewed from base end of tube.
- 4. Dimensions are in inches.

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.