



engineering data service

ADVANCE DATA

CHARACTERISTICS

GENERAL DATA

| Focusing Method | Electrostatic | |
|-------------------------------|-------------------|---------|
| Deflection Method | Magnetic | |
| Deflection Angles (approx.) | | |
| Horizontal | 105 | Degrees |
| Diagonal | 110 | Degrees |
| Vertical | 87 | Degrees |
| Phosphor | Aluminized P4 | |
| Fluorescence | White | |
| Persistence | Short to Medium | |
| Faceplate | Gray Filter Glass | |
| Light Transmittance (approx.) | 77 ±3 | Percent |

ELECTRICAL DATA

| Heater Voltage Heater Current Heater Warm-up Time ¹ Direct Interelectrode Capacitances (a | | Volts Ampere Seconds | |
|---|---|----------------------------|--------------|
| Cathode to All Other Electrodes Grid No. 1 to All Other Electrodes External Conductive Coating to Anomaly | 5 | ԴԱ ԴԱԿ ԴԱԿ ԴԱԿ | Max. Min. |

MECHANICAL DATA

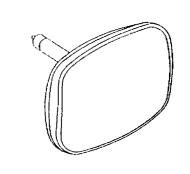
| Minimum Useful Screen D | | | |
|-------------------------|-------------------|-----------------|------------|
| (Maximum Assured) | 14 3/4 | x 11 11/16 | Inches |
| Minimum Useful Screen A | | | Sq. Inches |
| Bulb | J132 1/2Al or | equivalent | • |
| Bulb Contact (Recessed | Small Cavity Cap) | J1 - 21 | |
| Base | | B6 -1 85 | |
| Basing | | 7fa | |
| Weight (approx.) | RA TIN GS | 10 | Pounds |

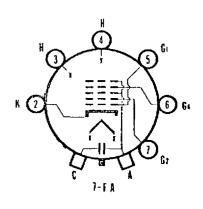
MAXIMUM RATINGS (Absolute Maximum Values)

| 17,600 | Volts | dc |
|---------------|---|-----------|
| | | |
| -550 to +1100 | Volts | dc |
| 550 | Volts | dc |
| | | |
| 154 | Volts | dc |
| 220 | Volts | |
| 0 | Volts | d¢ |
| 2 | Volts | |
| | -550 to +1100 550 154 220 0 | 220 Volts |

QUICK REFERENCE DATA

Television Picture Tube
17" Direct Viewed
Rectangular Glass Type
Lightweight Tube
Spherical Faceplate
Gray Filter Glass
Aluminized Screen
Electrostatic Focus
110° Magnetic Deflection
1 1/8" Neck Diameter
No Ion Trap
External Conductive Coating
6.3 Volt, 450 Ma Heater





SYLVANIA ELECTRIC PRODUCTS INC.

TELEVISION PICTURE TUBE DIVISION

SENECA FALLS, NEW YORK

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MAKIMUM RATINGS (Absolute Maximum Values) (Cont do)

Peak Heater-Cathode Voltage

Heater Negative with Respect to Cathode

During Warm-up Period not to Exceed 15 Seconds

After Equipment Warm-up Period

Heater Positive with Respect to Cathode

L50 Volts

200 Volts

TYPICAL OPERATING CONDITIONS

| Anode Voltage | 14,000 | Valts | dc |
|--|------------|-------|----|
| Grid No. 4 Voltage for Focus | 0 to 400 | Volts | dc |
| Grid No. 2 Voltage | 300 | Volts | de |
| Grid No. 1 Voltage Required for Cutoff 3 | -35 to -72 | Volts | đc |

CIRCUIT VALUES

Grid No. 1 Circuit Resistance

1.5 Megohms Max.

NOTES:

- l. Heater warm-up time is defined as the time required for the voltage across the heater to reach 80% of its rated value after applying four (4) times rated heater voltage to a circuit consisting of the tube heater in series with a resistance equal to three (3) times rated heater voltage divided by rated heater current.
- 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.

WARN ING:

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.

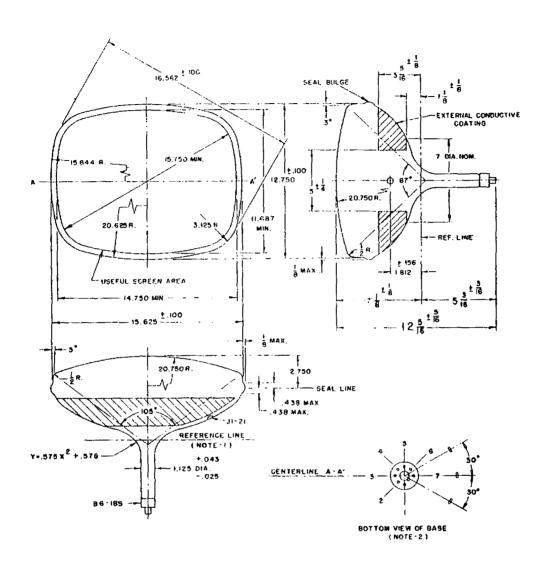


DIAGRAM NOTES:

- 1. Reference line is determined by plane C-C' of JETEC No. 126 Reference Line Gauge when the gauge is seated against the bulb.
- 2. Base pin No. 7 aligns with anode contact (J1-21) within 30°.
- 3. Dimensions are in inches.