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 Percent

ELECTRICAL DATA

Heater Voltage  
- 6.3 Volts

Heater Current  
- 0.60 ± 5% Ampere

Heater Warm-up Time  
- 11 Seconds

Direct Interelectrode Capacitances (approx.)
- Cathode to All Other Electrodes: 5 μF
- Grid No. 1 to All Other Electrodes: 6 μF
- External Conductive Coating to Anode: 1500 μF Max., 1000 μF Min.

MECHANICAL DATA

Minimum Useful Screen Dimensions (Maximum Assured)
- Height: 113/4
c
- Width: 143/4
c
- Diagonal: 15
c
- Area: 155 Sq.

Neck Length  
- 3/8 ± 1/6
c

Overall Length  
- 103/4 ± 1/4
c

Bulb  
- J132½-A or J132½-B

Bulb Contact (Recessed Small Cavity Cap)  
- J1-21

Base  
- B7-208

Basing  
- 8HR

Weight (approx.)  
- 10 Pounds

RATINGS

MAXIMUM RATINGS (Design Maximum Values) Grid Drive Service

Anode Voltage  
- 17,600 Volts dc

Grid No. 4 Voltage (Focusing Electrode)  
- −550 to +1100 Volts dc

Grid No. 2 Voltage  
- 550 Volts dc

Grid No. 1 Voltage
- Negative Bias Value: 155 Volts dc
- Negative Peak Value: 220 Volts
- Positive Bias Value: 0 Volts dc
- Positive Peak Value: 2 Volts

Peak Heater-Cathode Voltage
- Heater Negative with Respect to Cathode
  - During Warm-up Period: not to Exceed 15 Seconds 450 Volts
  - After Equipment Warm-up Period: 200 Volts
- Heater Positive with Respect to Cathode: 200 Volts

SYLVANIA
ELECTRONIC TUBES
A Division of Sylvania Electric Products Inc.

PICTURE TUBE OPERATIONS
SENeca FALLS, NEW YORK

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TYPICAL OPERATING CONDITIONS — Grid Drive Service

Anode Voltage ............................................. 14,000 Volts dc
Grid No. 4 Voltage for Focus .............................. 0 to 400 Volts dc
Grid No. 2 Voltage ........................................... 300 Volts dc
Grid No. 1 Voltage Required for Cutoff\(^3\) ........... −35 to −72 Volts dc

CIRCUIT VALUES

Circuit No. 1 Circuit Resistance ...................... 1.5 Megohm Max.

NOTES:

1. Heater warm-up time is defined as the time required for the voltage across the heater to reach 80% of the rated heater voltage 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 the rated heater voltage divided by the 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.

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.

DIAGRAM NOTES

1. Reference line is determined by plane C-C' of JEDEC No. 126 Reference Line Gauge, when the gauge is seated against the bulb.
2. Base Pin No. 4 aligns with horizontal centerline (A-A') within 30° and is on same side as anode contact, J1-21.