GENERAL DATA

Focusing Method .................................................. Electrostatic
Deflecting Method ............................................... Magnetic
Deflecting Angle-Diagonal (Approx.) ......................... 110 Degrees
Horizontal .......................................................... 99 Degrees
Vertical ............................................................ 82 Degrees
Phosphor ............................................................ P4 Aluminized
Fluorescence ....................................................... White
Persistence .......................................................... Medium
Faceplate ............................................................ Gray Filter Glass
Light Transmission (including twin panel) ............. 40% (Approx.)

ELECTRICAL DATA

Heater Voltage ...................................................... 6.3 Volts
Heater Current ..................................................... .6 Ampere ± 5%
Direct Inter-electrode Capacitance (Approx.)
Cathode to All Other Electrodes ....................... 5 µuf
Grid No. 1 to All Other Electrodes .................. 6 µuf
Ion Trap Magnet .................................................. None

MECHANICAL DATA

Minimum Useful Screen Dimensions ....... 19 5/6" x 15 1/4" Inches
Minimum Useful Screen Area (Approx.) .......... 262 Sq.In.
Bulb Contact (Recessed Small Cavity Cap) ........... J1-21
Base (Small Wafer Eightar 7 Pin) ................ B7-208 or B7-183
Basing ............................................................... 8 HR
J1-21 Contact Aligns with Pin Position No. 4 ± 30 Degrees

RATINGS

MAXIMUM RATINGS (Design Maximum Values)
Anode Voltage (Note 1) ................................. 20,000 Volts dc
Grid No. 1 Voltage (focusing electrode) ....... -500 to + 2000 Volts dc
Grid No. 2 Voltage ............................................. 550 Volts dc
Grid No. 1 Voltage
Negative Bias Value ...................................... 154 Volts dc
Positive Bias Value ........................................ 0 Volts dc
Positive Peak Value ...................................... 2 Volts dc
Peak Heater-Cathode Voltage (Note 2)
Heater Negative with Respect to Cathode
During Warm-up Period Not to exceed ... 15 sec 150 Volts dc
After Equipment Warm-up Period ............... 200 Volts dc
Heater Positive with Respect to Cathode ......... 200 Volts dc

RECOMMENDED OPERATING CONDITIONS
Anode Voltage ................................................... 16,000 Volts dc
Grid No. 1 Voltage (Note 3) ..................... 0 to + 1000 Volts dc
Grid No. 2 Voltage ............................................. 300 Volts dc
Grid No. 1 Voltage (Note 4) ...................... -45 to -72 Volts dc

CIRCUIT VALUES
Grid No. 1 Circuit Resistance ....................... 1.5 Max. Megohm
External Conductive Coating to Anode
Capacitance .................................................. 2500 µuf, Max.
.......................... 2000 µuf, Min.

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THOMAS ELECTRONICS, INC., PASSAIC, NEW JERSEY
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-GL.

3. Planes perpendicular to tube axis and passing through points X, Y, and Z are located as follows:

   Plane tangent to crown of face to plane of \(X = 0.758^n\) Nom.
   Plane of X to plane of \(Y = 0.63^n \pm 0.03^n\)
   Plane of X to plane of \(Z = 0.970^n \pm 0.03^n\)
   Plane of X to the bottom of ear = 1.960^n

4. Dimensions are in inches.

5. External Conductive Coating must be grounded.

6. Anti-corona coating around connector.

7. Panel edge flatness: \(0.075^n\) maximum out of plane.