GENERAL DATA

CHARACTERISTICS

Focusing Method ........................................ Magnetic
Deflecting Method ...................................... Magnetic
Deflection Angle (Approx.) ................................. 50 Degrees
Phosphor .................................................. Aluminized, P7
  Fluorescence ........................................... Blue-White
  Phosphorescence ....................................... Yellow
  Persistence ............................................... Long
Faceplate .................................................. Grey Glass
Light Transmittance (Approx.) ......................... 76 Percent

* In addition to the type shown, the 10AKP- can be supplied with several other screen phosphors.

ELECTRICAL DATA

Heater Voltage .............................................. 6.3 Volts
Heater Current ........................................... 0.6 ± 10% Ampere
Direct Interelectrode Capacitances (Approx.)
  Cathode to All Other Electrodes ...................... 5 μF
  Grid No. 1 to All Other Electrodes ................. 8 μF

MECHANICAL DATA

Minimum Useful Screen Diameter ....................... 9 Inches
Bulb Contact (Recessed Small Cavity Cap) ............. J1-21
Base .................................................... B5-57
Basing .................................................... 12D
Bulb ..................................................... J84C

RATINGS

MAXIMUM RATINGS (Absolute Maximum Values)

Anode Voltage ............................................. 11,000 Volts dc
Grid No. 2 Voltage ....................................... 1100 Volts dc
Grid No. 1 Voltage
  Negative Bias Value .................................. 200 Volts dc
  Positive Bias Value .................................. 0 Volts dc
  Positive Peak Value .................................. 2 Volts dc
Peak Grid No. 1 Drive from Cutoff ..................... 65 Volts
Peak Heater-Cathode Voltage
  Heater Negative with Respect to Cathode ............ 200 Volts
  Heater Positive with Respect to Cathode .......... 200 Volts

TYPICAL OPERATING CONDITIONS

Anode Voltage ............................................. 8000 Volts dc
Grid No. 2 Voltage ....................................... 700 Volts dc
Grid No. 1 Voltage Required for Cutoff ................. -35 to -80 Volts dc
Focusing Coil Current (Approx.)\(^n\) ................. 105 Ma dc
Linewidth \(A^2\) ........................................... 30 mm Max.
Spot Position (Undelected) \(^4\) ......................... 18 mm Max.

CIRCUIT VALUES

Grid No. 1 Circuit Resistance ......................... 1.5 Megohms Max.
NOTES:

1. Visual extinction of undeflected focused spot.
2. For JEDEC focusing coil No. 106 with distance from the yoke reference line to center of air gap equal to 3\(\frac{3}{4}\) inches.
3. Measured in accordance with Mil-E-1, paragraph 4.12.6.2, at an anode current of 200 \(\mu\)A.
4. The center of the undeflected, unfocused spot will fall within a circle of 18 m.m. radius, concentric with the tube face.

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 position where JEDEC No. 112 reference line gauge will seat against bulb.
2. Anode contact (J1-21) aligns with Vacant Pin Position No. 3 within 10 degrees.