CHARACTERISTICS

GENERAL DATA
Focusing Method ................................................................. Magnetic
Deflecting Method ............................................................... Magnetic
Deflecting Angle (approx.) .................................................... 54 Degrees
Phosphor ................................................................. Aluminized, P4
Fluorescence ................................................................. White
Persistence ................................................................. Medium
Faceplate ................................................................. Gray Filter Glass
Transmittance (approx.) ........................................................ 74 Percent

ELECTRICAL DATA
Heater Voltage ................................................................. 6.3 Volts
Heater Current (±10%) ........................................................ 0.6 Ampere
Direct Inter-electrode Capacitances (approx.)
  Cathode to All Other Electrodes ......................................... 5 µF
  Grid No. 1 to All Other Electrodes ....................................... 6 µF
  External Conductive Coating to Anode¹ .................................. 3000 µF Max.
  .......................................................................................... 750 µF Min.
Ion Trap Magnet ................................................................. External, Double Field Type

MECHANICAL DATA
Minimum Useful Screen Dimensions (Diameter) ......................... 11 Inches
Bulb Contact Recessed Small Cavity Cap) ................................. J1-21
Base (Small Shell Duodecal 5-Pin) ........................................... B5-57
Basing ................................................................. 12N
Bulb Contact Aligns with Vacant Pin
  Position No. 3 ................................................................. ±10 Degrees

RATINGS

MAXIMUM RATINGS (Design Center Values)
Anode Voltage ................................................................. 12,000 Volts dc
Grid No. 2 Voltage .............................................................. 410 Volts dc
Grid No. 1 Voltage
  Negative Bias Value .......................................................... 125 Volts dc
  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 .................................................. 410 Volts
  After Equipment Warm-up Period ........................................ 140 Volts
  Heater Positive with Respect to Cathode ................................ 140 Volts

RECOMMENDED OPERATING CONDITIONS
Anode Voltage ................................................................. 11,000 Volts dc
Grid No. 2 Voltage .............................................................. 250 Volts dc
Grid No. 1 Voltage Required for
cutoff² ................................................................. -27 to -63 Volts dc
Focusing Coil Current (approx.)³ ............................................. 110 Ma dc
Ion Trap Magnet Strength (approx.) ........................................ 35 Gausses

CIRCUIT VALUES
Grid No. 1 Circuit Resistance ................................................ 1.5 Megohms Max.

NOTES:
1. External conductive coating must be grounded.
2. Visual extinction of undeflected focused spot.
3. For JETEC focusing coil 106 or equivalent three and one quarter inches from reference line, bias adjusted to 20 foot lamberts on a 7½ x 10 inch picture area sharply focused at center of screen.

SYLVANIA ELECTRIC PRODUCTS INC.
TELEVISION PICTURE TUBE DIVISION
SENeca FALLS, NEW YORK
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DIAGRAM NOTES:
1. Reference line is determined by the plane of the upper edge of the reference line gauge (JETEC No. 112) when the gauge is resting on the glass cone.

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.