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.) ..................................... 79 Percent

ELECTRICAL DATA

Heater Voltage ....................................................... 6.3 Volts
Heater Current ..................................................... 0.6 ± 5% Ampere
Heater Warm-up Time 1 ........................................... 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 2 .................. 1500 µf Max.
                                            1000 µf Min.
Ion Trap Magnet ................................................... External, Single Field Type

MECHANICAL DATA

Minimum Useful Screen Dimensions (Maximum Assured) .... 14\(\frac{3}{4}\) x 11\(\frac{3}{16}\) Inches
Minimum Useful Screen Area ..................................... 155 Sq. Inches
Bulb ................................................................. J132\(\frac{3}{8}\) A1
Bulb Contact (Recessed Small Cavity Cap) ................. J1-21
Base ................................................................. B6-185
Basing .............................................................. 7FA
Weight (approx.) ................................................... 10 Pounds

RATINGS

MAXIMUM RATINGS (Absolute Maximum Values)

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 ........................................... 154 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 ELECTRIC PRODUCTS INC.
TELEVISION PICTURE TUBE DIVISION
SENeca FALLS, NEW YORK
Prepared and Released By The
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APRIL, 1957
PAGE 1 OF 3
TYPICAL OPERATING CONDITIONS

<table>
<thead>
<tr>
<th>Condition</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Anode Voltage</td>
<td>14,000 Volts dc</td>
</tr>
<tr>
<td>Grid No. 4 Voltage for Focus</td>
<td>-50 to +350 Volts dc</td>
</tr>
<tr>
<td>Grid No. 2 Voltage</td>
<td>300 Volts dc</td>
</tr>
<tr>
<td>Grid No. 1 Voltage Required for Cutoff³</td>
<td>-35 to -72 Volts dc</td>
</tr>
<tr>
<td>Field Strength of PM Ion Trap Magnet⁴</td>
<td>33 Gausses Min.</td>
</tr>
</tbody>
</table>

CIRCUIT VALUES

<table>
<thead>
<tr>
<th>Condition</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Grid No. 1 Circuit Resistance</td>
<td>1.5 Megohms Max.</td>
</tr>
</tbody>
</table>

NOTES:

1. Heater warm-up time is the time required for the voltage across the heater terminals to increase to 5.0 volts in the JETEC test circuit, with \( E = 25 \) volts and series \( R = 31.5 \) ohms.
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.
4. For typical PM ion trap magnet with field strength tolerance of ±3 gausses.
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.

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.