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.) .................................. 76 Percent

ELECTRICAL DATA
Heater Voltage ................................................... 6.3 Volts
Heater Current .................................................. 0.45 ± 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 ........... 2500 μF Max.
                                                                                     1700 μF Min.

MECHANICAL DATA
Minimum Useful Screen Dimensions (Maximum Assured)
  Height ....................................................... 16 7/8 Inches
  Width ......................................................... 21-7/16 Inches
  Diagonal ..................................................... 22-13/16 Inches
  Area .......................................................... 332 Sq. Inches
Bulb ............................................................... J192C or J192D
Bulb Contact (Recessed Small Cavity Cap) ........... J1-21
Base ............................................................... B7-183
Basing ............................................................. 8HR
Weight (approx.) ............................................... 26 1/2 Pounds

RATINGS
MAXIMUM RATINGS (Absolute Maximum Values)
Anode Voltage ............................................... 22,000 Volts dc
Grid No. 4 Voltage (Focusing Electrode).................. -550 to +1100 Volts dc
Grid No. 2 Voltage .......................................... 550 Volts dc
Grid No. 1 Voltage .......................................... 154 Volts dc
  Negative Bias 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

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TELEVISION PICTURE TUBE DIVISION
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PAGE 1 OF 3
TYPICAL OPERATING CONDITIONS

Anode Voltage ........................................ 16,000 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 Cutoff3 ........ -35 to -72 Volts dc

CIRCUIT VALUES

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

NOTES:

1. Heater warm-up time is defined as the time required for the voltage across the heater to reach 80% of its rated value 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 rated heater voltage divided by 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 JETEC No. 126 Reference Line Gauge, when the gauge is seated against the bulb.

2. Base pin No. 4 aligns with horizontal centerline within 30°, and is on same side as anode contact (J1-21).