from JETEC release
#2284, Oct. 6, 1958

GENERAL DATA

Focusing Method
Deflection Method
Deflection Angles (Approx.)
  Horizontal
  Diagonal
Phosphor
  Fluorescence
  Persistence
Faceplate
  Light Transmittance (Approx.)
  Electrostatic
  Magnetic
  85 Degrees
  90 Degrees
  Aluminized P4
  White
  Gray Filter Glass
  74 Percent

ELECTRICAL DATA

Heater Voltage
Heater Current
Heater Warm-up Time
Direct Interelectrode Capacitance (Approx.)
  Cathode to All Other Electrodes
  Grid No. 1 to All Other Electrodes
  External Conductive Coating to Anode

6.3 Volts
0.3 ± 5% Ampere
11 Seconds
5 μuf
6 μuf
1500 μuf Max.
1000 μuf Min.

MECHANICAL DATA

Minimum Useful Screen Dimensions
Minimum Useful Screen Area
Bulb
Bulb Contact (Recessed Small Cavity Cap)
Base (Small Shell Duodecal 6-Pin)
Basing
Weight (Approx.)

14 5/16 x 11 1/8 Inches
149 Sq. Inches
J133F or J133G
J1-21
B6-63
12L
13 Pounds

RATINGS

MAXIMUM RATINGS (Absolute Maximum Values)

Anode Voltage
Grid No. 4 Voltage
  (Focusing Electrode)
Grid No. 2 Voltage
Grid No. 1 Voltage
  Negative Bias Value
  Negative Peak Value
  Positive Bias Value
  Positive Peak Value
Peak Heater-Cathode Voltage
  Heater Negative with Respect to Cathode
  During Warm-up Period Not to Exceed 15 Seconds
  After Equipment Warm-up Period
  Heater Positive with Respect to Cathode

17,600 Volts dc
-550 to +1100 Volts dc
550 Volts dc
155 Volts dc
220 Volts dc
0 Volts dc
2 Volts dc
450 Volts
200 Volts
200 Volts

SYLVANIA ELECTRIC PRODUCTS INC.
TELEVISION PICTURE TUBE DIVISION
SENeca FALLS, NEW YORK
Prepared and Released By The
TECHNICAL PUBLICATIONS SECTION
EMPORIUM, PENNSYLVANIA

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TYPICAL OPERATING CONDITIONS

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<td>14,000 Volts dc</td>
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<tr>
<td>Grid No. 4 Voltage</td>
<td>-50 to +300 Volts dc</td>
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<td>300 Volts dc</td>
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<td>Grid No. 1 Voltage Required for Cutoff3</td>
<td>-35 to -72 Volts dc</td>
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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.
DIAGRAM NOTES:

1. Reference line is determined by the plane C-C' of the Reference Line Gauge (JETEC No. 116) when the gauge is seated on the glass cone.

2. Contact area for external conductive coating 2" x 2", located 90 degrees counterclockwise from anode contact as viewed from base end of tube.

3. Anode contact aligns with pin position No. 6 ± 30 degrees.

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.