from JETEC release
#2042, Nov. 11, 1957

ADVANCE DATA

CHARACTERISTICS

GENERAL DATA

Focusing Method
Electrostatic
Deflection Method
Magnetic
Deflection Angles (approx.)
Horizontal 85 Degrees
Diagonal 90 Degrees
Phosphor
Aluminized P4
Fluorescence
White
Persistence
Short to Medium
Faceplate
Gray Filter Glass
Light Transmittance (approx.) 77 Percent

ELECTRICAL DATA

Heater Voltage 6.3 Volts
Heater Current 0.6 ± 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 2 1500 μF Max.
1000 μF Min.

MECHANICAL DATA

Minimum Useful Screen Dimensions
(Maximum Assured) 14 3/4 x 11 11/16 Inches
Minimum Useful Screen Area 155 Sq. Inches
Bulb: J132 1/2 C or Equivalent
Bulb Contact (Recessed Small Cavity Cap) J1-21
Base (Small Shell Duodecal 6-Pin) B6-63
Basing 12L
Weight (approx.) 10 1/2 Pounds

RATINGS

MAXIMUM RATINGS (Absolute Maximum Values) 3

Anode Voltage 17,600 Volts dc
Grid No. 1 Voltage
(Focusing Electrode) -550 to +1100 Volts dc
Grid No. 2 Voltage 70 Volts dc
Cathode Voltage
Positive Bias Value 150 Volts dc
Negative Peak Value 0 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

QUICK REFERENCE DATA

Television Picture Tube
17" Direct Viewed
Rectangular Glass Type
Lightweight Tube
Spherical Faceplate
Gray Filter Glass
Aluminized Screen
Electrostatic Focus
90° Magnetic Deflection
Short Neck Tube
No Ion Trap
External Conductive Coating
Cathode Drive Design
Low Grid No. 2 Voltage

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

September 18, 1957
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TYPICAL OPERATING CONDITIONS

Anode Voltage 14,000 Volts dc
Grid No. 4 Voltage for Focus 0 to +400 Volts dc
Grid No. 2 Voltage 50 Volts dc
Cathode Voltage Required for Cutoff 4 35 to 50 Volts dc

CIRCUIT VALUES

Grid No. 1 Circuit Resistance 1.5 Megohms Max.

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. This type is designed for cathode-drive service. All voltages shown are positive with respect to Grid No. 1 Voltage, unless otherwise indicated.

4. For visual extinction of focused raster. Extinction of stationary focused spot will require that these values increase approximately 5 volts.

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 the plane C-C' of the reference line gauge (JETEC No. 116) when the gauge is resting on the glass cone.

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