DESCRIPTION
19" Direct View
Rectangular Glass Envelope
Spherical Faceplate
Gray Filter Glass
Aluminized Screen
6.3 Volt, 600 Ma. Heater
Low G2 Voltage (35V.)
Cathode Drive Design
92° Magnetic Deflection
Electrostatic Focus
External Conductive Coating
No Ion Trap

ELECTRICAL DATA
Focusing Method
Deflection Angles, Approximate
   Horizontal
   Vertical
   Diagonal
   80 Degrees
   65 Degrees
   92 Degrees
Direct Interelectrode Capacitances
   Cathode to all other electrodes, approximate
   Grid #1 to all other electrodes, approximate
   External Conductive Coating to Anode
   5 uuf
   6 uuf
   2,000 max. uuf
   1,500 min. uuf
   600 ± 10% Ma.
   11 Seconds
Heater Current at 6.3 volts
Heater Warm-up Time

OPTICAL DATA
Phosphor Number
Light Transmittance at Center, Approximate
   P4 Aluminized
   78 Percent

MECHANICAL DATA
Overall Length
Greatest Dimensions of Tube
   Diagonal
   Width
   Height
   15 1/4 ± 3/8 Inches
   18 5/8 ± 1/8 Inches
   16 13/32 ± 1/8 Inches
   13 11/32 ± 1/8 Inches

Minimum Useful Screen Dimensions (Projected)
   Diagonal
   Horizontal Axis
   Vertical Axis
   Area
   17 9/16 Inches
   15 1/8 Inches
   12 Inches
   172 Sq. Inches
Neck Length
   5 1/2 ± 3/16 Inches
Bulb
   J149Bl or Equivalent
Bulb Contact
   J1-21
Base
   B6-203
Basing
   12L
Bulb Contact Alignment
   Anode contact aligns with pin position #6
   ± 30 Degrees
RATING (Design Maximum System)

Unless otherwise specified, voltages are positive and measured with respect to Grid #1

Maximum Anode Voltage
Minimum Anode Voltage
Maximum Grid #4 (Focusing Electrode) Voltage + 1100 - 500 Volts
Maximum Grid #2 Voltage
Minimum Grid #2 Voltage
Cathode Voltage
Maximum Heater Voltage
Minimum Heater Voltage
Maximum Heater-Cathode Voltage

Heater negatives with respect to cathode

During warm-up period not to exceed 15 Seconds

-410 Volts

After equipment warm-up period

-180 Volts

Heater positive with respect to cathode

180 Volts

TYPICAL OPERATING CONDITIONS

CATHODE DRIVE SERVICE

Unless otherwise specified, all voltage values are positive with respect to Grid #1

Anode Voltage
Grid #4 Voltage (Focusing Electrode)\(^2\), \(^3\)
Grid #2 Voltage
Cathode Voltage

MAXIMUM CIRCUIT VALUES

Maximum Grid #1 Circuit Resistance 1.5 Megohms

NOTES

1. Visual extinction of focused raster.

2. With the combined grid #1 bias voltage and video-signal voltage adjusted to give an anode current of 150 microamperes on a 15 1/8 x 12 pattern from 2F21 Monoscope or equivalent.

3. Individual tubes will have satisfactory focus at some value between 0 and 500 Volts.
NOTE: 1. REFERENCE LINE AS DETERMINED BY PLANE C-C OF JEDEC REFERENCE LINE GAUGE 116

2. BASE PIN NO. 6 ALIGNS WITH ANODE CONTACT WITHIN 30°