



CORPORATION

4245 NORTH KNOX AVE.

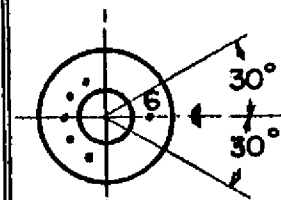
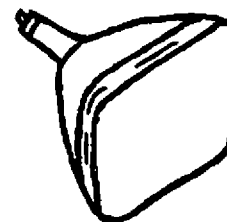
CHICAGO 41, ILLINOIS

TELEPHONE MULBERRY 5-5000

TELETYPE CG 2790

DESCRIPTION

19" Direct View	Low G ₂ Voltage (35V)
Rectangular Glass Envelope	Cathode Drive Design
Spherical Faceplate	92° Magnetic Deflection
Gray Filter Glass	Electrostatic Focus
Aluminized Screen	External Conductive Coating
6.3 Volt, 600 Ma Heater	No Ion Trap



BOTTOM VIEW
BASE

ELECTRICAL DATA

Focusing Method

Electrostatic

Deflection Angles, Approximate

Horizontal

80 Degrees

Vertical

65 Degrees

Diagonal

92 Degrees

Direct Interelectrode Capacitance

Cathode to all other electrodes, approximate

5 uuf

Grid #1 to all other electrodes, approximate

6 uuf

External Conductive Coating to Anode

2,000 max. uuf

1,500 min. uuf

Heater Current at 6.3 volts

600 ± 10% Ma

Heater Warm-up time

11 Seconds

OPTICAL DATA

Phosphor Number

P4 Aluminized

Light Transmittance at Center, Approximate

78 Percent

MECHANICAL DATA

Overall Length

15 1/4 ± 3/8 Inches

Greatest dimensions of tube

Diagonal

18 5/8 ± 1/8 Inches

Width

16 13/32 ± 1/8 Inches

Height

13 11/32 ± 1/8 Inches

Minimum Useful Screen Dimensions (Projected)

Diagonal

17 9/16 Inches

Horizontal Axis

15 1/8 Inches

Vertical Axis

12 Inches

Area

172 Sq. Inches

Neck Length

5 1/2 ± 3/16 Inches

Bulb

J149B1 or equivalent

Bulb Contact

J1 - 21

Base

B6- 203

Basing

12L

Bulb Contact Alignment

Anode Contact aligns with pin position #6

±30 Degrees

FEB., 1962

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RATINGS (Design Maximum System)

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

Maximum Anode Voltage	19,800 Volts
Minimum Anode Voltage	12,000 Volts
Maximum Grid #4 (Focusing Electrode) Voltage	±1100 - 500 Volts
Maximum Grid #2 Voltage	40 Volts
Minimum Grid #2 Voltage	25 Volts
Cathode Voltage	100 Volts
Maximum Heater Voltage	7 Volts
Minimum Heater Voltage	5.8 Volts
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	2,3	14,500 Volts
Grid #4 Voltage (Focusing Electrode)		250 Volts
Grid #2 Voltage ₁		35 Volts
Cathode Voltage		25 to 40 Volts

MAXIMUM CIRCUIT VALUES

Maximum Grid #1 Circuit Resistance	1.5 Megohms
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NOTES

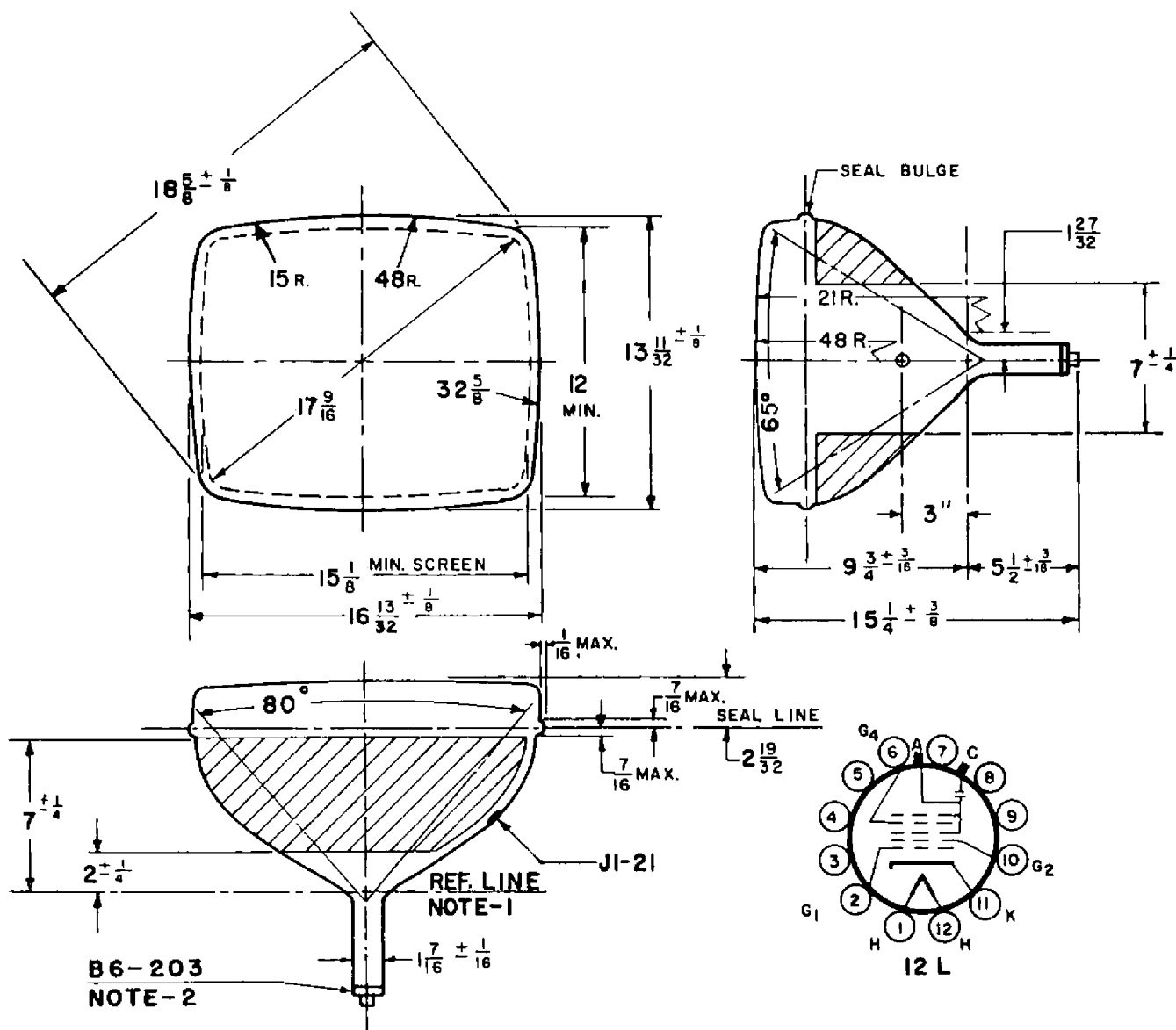
1. Visual extinction of focused raster.
2. With the combined grid #1 bias voltage and video-signal voltage adjusted to give an anode current of 150 microamperes on a 15 1/8 x 12 pattern from 2F21 Monoscope or equivalent.
3. Individual tubes will have satisfactory focus at some value between 0 and 500 Volts.

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NOTE: I. REFERENCE LINE AS DETERMIND BY PLANE C-C OF JEDEC REFERENCE LINE GAUGE 116

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