

19CDP4

4245 NORTH KNOX AVE.

CHICAGO 41, ILLINOIS

TELEPHONE MULBERRY 5-5000 TELETYPE CG 2790

DESCRIPTION

19" Direct View Rectangular Glass Envelope Spherical Faceplate

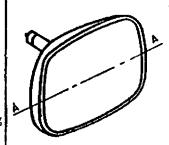
Gray Filter Glass Aluminized Screen

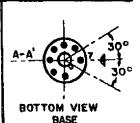
6.3 Volt, 600 Ma. Heater

Low G, Voltage (50V.) Cathode Drive Design 1140 Magnetic Deflection Electrostatic Focus

External Conductive Coating

No Ion Trap





ELECTRICAL DATA

Focusing Method

Deflection Angles, Approximate Horizontal

Vertical Diagonal

Direct Interelectrode Capacitances

Cathode to all other electrodes, approximate Grid #1 to all other electrodes, approximate

External Conductive Coating to Anode

Heater Current at 6.3 volts

Heater Warm-up time

Electrostatic

103 Degrees 86 Degrees

114 Degrees

5 uuf 6 uuf

1900 max. uuf 1400 min. uuf

600 £ 10% Ma

11 Seconds

OPTICAL DATA

Phosphor Number

Light Transmittance at Center, Approximate

P4, Aluminized 78 Percent

MECHANICAL DATA

Overall Length

Greatest Diameter of Tube

Diagonal Width Height

Minimum Useful Screen Dimensions (Projected) Diagonal

Horizontal Axis Vertical Axis

Area

Neck Length

Bu_{1b}

Bulb Contact

Base

Basing

Bulb Contact Alignment

Anode contact aligns with pin position #7

11 5/8 £ 1/4 Inches

18 $5/8 \neq 1/8$ Inches

16 13/32 $\frac{7}{4}$ 1/8 Inches

13 11/32 f 1/8 Inches

17 9/16 Inches

15 1/8 Inches

12 Inches

172 Sq. Inches

4 3/8 <u>f</u> 1/8 Inches

J 149 Al or equivalent

J1-21

B6-214

7FA

30 Degrees

positive and measured with respect to Grid #1		
Maximum Anode Voltage	19,800	Volts
Minimum Anode Voltage	12,000	Volts
▼	100 -500	
Maximum Grid #2 Voltage	70	
Minimum Grid #2 Voltage	40	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		

MAXIMUM CIRCUIT VALUES

Anode Voltage

Grid #2 Voltage

Cathode Voltage

Maximum Grid #1 Circuit Resistance

Grid #4 Voltage (Focusing Electrode) 2, 3

1.5 Megohms

Volts

Volts

Volts

Volts

16,000

35 to 50

250

50

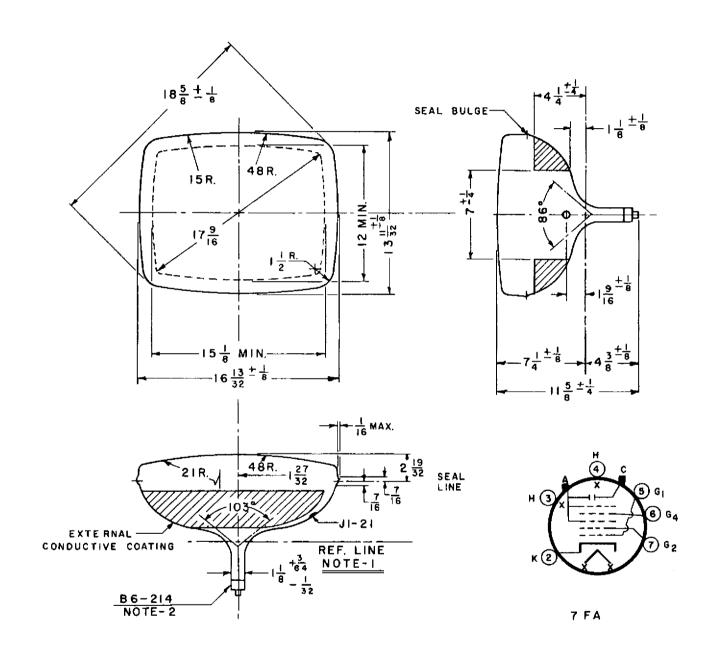
NOTES

- 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 DETERMINED BY PLANE C-C' OF J.E.D.E.C. REFERENCE LINE GAUGE NO. 126
- 2. BASE PIN NO.7 ALIGNS WITH ANODE CONTACT WITHIN 30°