

CORPORATION

16BXP4

5600 WEST JARVIS AVENUE

CHICAGO 48, ILLINOIS

TELEPHONE MULBERRY 5-5000 TELETYPE 312-265-1293

DESCRIPTION

16" Direct View
Rectangular Glass Envelope
Gray Filter Glass
Aluminized Screen
6.3 Volts, 450 Ma. Heater
Cathode Drive Design
Rim Provides Mounting Holes
Filled Rim Implosion Protection
Cathology Protection
Filled Rim Implosion Protection
Cathology Magnetic Deflection
Electrostatic Focus
External Conductive Coating
No Ion Trap
Low G2 Voltage (35 V)

SPECIAL CHARACTERISTICS-Anode Penetration Current 150 ua Max.
(Note 4)

ELECTRICAL DATA

Focusing Method Electrostatic Deflection Angles (approx.) Horizontal 103 Degrees Vertical 87 Degrees Diagonal 114 Degrees Direct Interelectrode Capacitances Cathode to all other electrodes (approx.) 5 uuf Grid #1 to all other electrodes (approx.) 6 uuf External Conductive Coating to Anode 1,400 max. uuf (Including implosion protection hardware) 900 min. uuf 450 ± 5% Heater Current at 6.3 Volts Heater Warm-up time 11 Seconds

OPTICAL DATA
Phosphor Number
Pli Aluminized
Light Transmittance at Center (approx.)

55 %

MECHANICAL DATA
Overall Length
Greatest Dimensions of Tube (Metal Rim)
Diagonal

10 9/16 ± 1/4"
17 1/2 ± 3/32"

Diagonal
Width
Height
Minimum Useful Screen Dimensions (Projected)
Diagonal
Horizontal Axis.

17 1/2 ± 3/32"
14 3/8 ± 1/16"
11 3/4 ± 1/16"
11 7/8"
12 15/16"

 Vertical Axis.
 10 1/4"

 Area
 125 Sq. in.

 Neck Length
 4 3/8± 1/8"

 Bulb
 J125BlA

 Bulb Contact
 J1-21

Bulb Contact

Base

Basing

Weight (approx.)

J1-21

B6-214

7FA

9 lb. 14 oz.

Bulb Contact Alignment
J1-21 contact aligns with pin position #7 ± 30 degrees

RATINGS (Design Maximum System)

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

Maximum Anode Voltage
Minimum Anode Voltage
Maximum Grid #4(Focusing Electrode)voltage
Maximum Grid #2 Voltage
Minimum Grid #2 Voltage
Cathode Voltage
Maximum Heater Voltage
Minimum H

Maximum Heater-Cathode Voltage

Heater negative with respect to cathode

During warm-up time not to exceed 15 sec. 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 (Focusing Electrode) voltage
(Notes 2 and 3)
Grid #2 Voltage
Cathode Voltage (Note 1)

15,000 Volts DC
250 Volts DC
25 to 50 Volts DC
25 to 50 Volts DC

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 125 micro-amperes on a 12 15/16" X 10 1/4" pattern from RCA 2F21 Monoscope or equivalent.
- 3. Individual tubes will have satisfactory focus at some value between 0 and 500 volts
- 4. This is the maximum beam current with 17,600 volts (design max.) applied to Anode, zero voltage applied to Cathode, Grid #1, and Grid #2, all other elements to have nominal voltages.

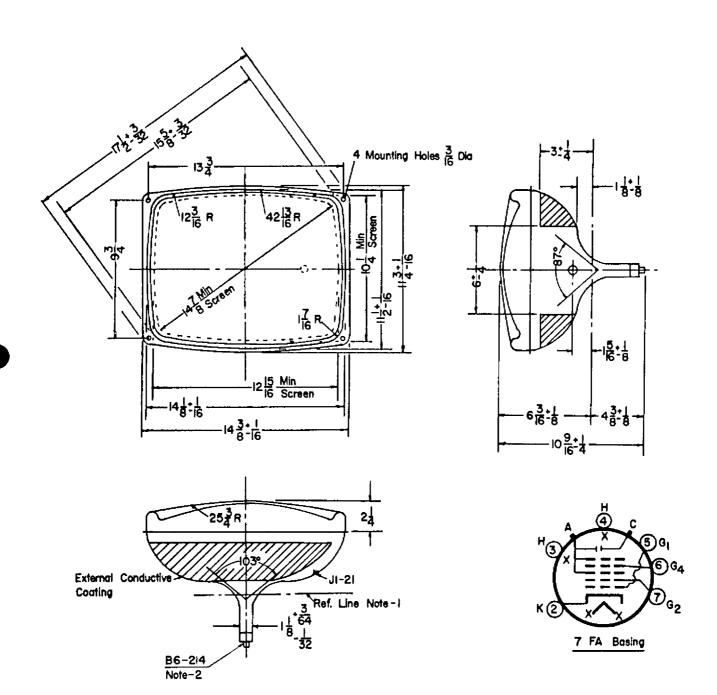


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Notes

-). Reference Line as determined by Plane $C = C^{\dagger}$ of J. E. D. E. C. Reference Line Gauge no. 126.
- 2. Base Pin no. 7 aligns with anode contact within 30°