



CORPORATION

16AVP4

5600 WEST JARVIS AVENUE

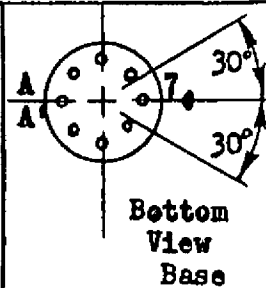
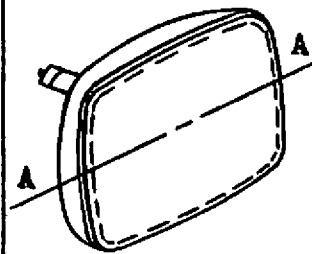
CHICAGO 48, ILLINOIS

TELEPHONE MULBERRY 5-5000

TELETYPE 312-265-1293

DESCRIPTION

| | |
|----------------------------|------------------------------------|
| 16" Direct View | Low G ₂ Voltage (35 V.) |
| Rectangular Glass Envelope | Cathode Drive Design |
| Spherical Faceplate | 114° Magnetic Deflection |
| Gray Filter Glass | Electrostatic Focus |
| Aluminized Screen | External Conductive Coating |
| 6.3 Volt, 450 Ma. Heater | No Ion Trap |
| Bonded Implosion Panel | |

ELECTRICAL DATA

Focusing Method

Electrostatic

Deflection Angles, Approximate

Horizontal

103 Degrees

Vertical

87 Degrees

Diagonal

114 Degrees

Direct Interelectrode Capacitances

Cathode to all other electrodes, approximate

5 uuf

Grid #1 to all other electrodes, approximate

6 uuf

External Conductive Coating to Anode

1400 max. uuf

Heater Current at 6.3 Volts

900 min. uuf

Heater Warm-up Time

450 + 10% ma.

11 Seconds

OPTICAL DATA

Phosphor Number

P₄ Aluminized

Light Transmittance at Center, Approximate

59 Percent

MECHANICAL DATA

Overall Length

10 11/16 ± 5/16 Inches

Greatest Dimensions of Tube

Diagonal

15 5/8 ± 1/8 Inches

Width

13 23/32 ± 1/8 Inches

Height

11 3/32 ± 1/8 Inches

Minimum Useful Screen Dimensions (Projected)

Diagonal

14 7/8 Inches

Horizontal Axis

12 15/16 Inches

Vertical Axis

10 1/4 Inches

Area

125 Sq. Inches

Neck Length

4 3/8 ± 1/8 Inches

Bulb

J125A1-A or equivalent

Implosion Panel

FP125A1 or equivalent

Bulb Contact

J1-21

Base

B6-214

Basing

7FA

Bulb Contact Alignment

Anode contact aligns with pin position #7

± 30 Degrees

RATINGS (Design Maximum System)

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

| | |
|------------------------------------------------|------------------|
| Maximum Anode Voltage | 17,600 Volts |
| Minimum Anode Voltage | 12,000 Volts |
| Maximum Grid #4 (Focusing Electrode) Voltage | +1100 -500 Volts |
| Maximum Grid #2 Voltage | 60 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 | 15,000 Volts |
| Grid #4 Voltage (Focusing Electrode) 2, 3 | 250 Volts |
| Grid #2 Voltage | 35 Volts |
| Cathode Voltage 1 | 25 to 50 Volts |

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 microamperes 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.

THE



CORPORATION

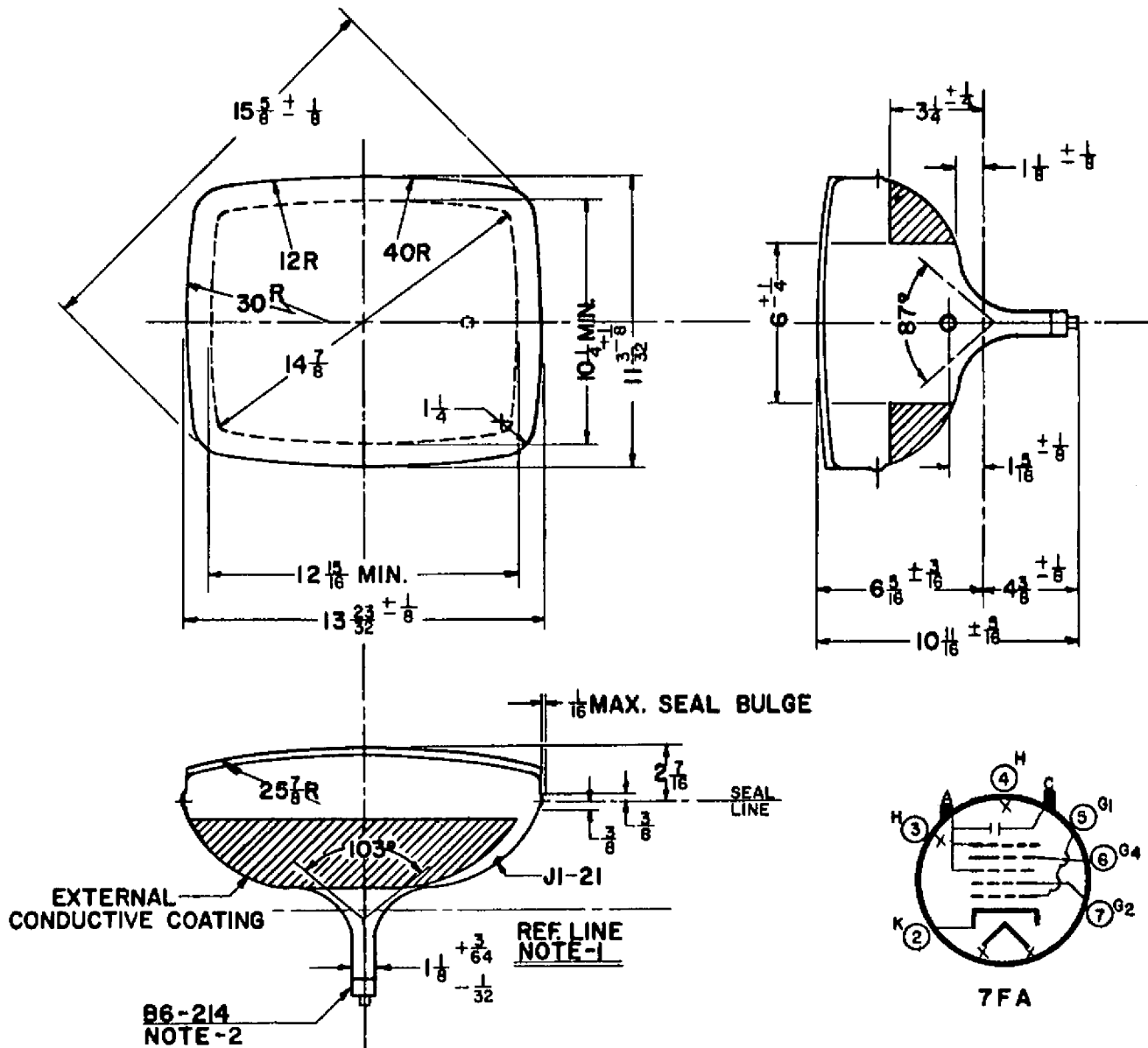
16AVP4

5600 WEST JARVIS AVENUE

CHICAGO 48, ILLINOIS

TELEPHONE MULBERRY 5-5000

TELETYPE 312-265-1293



NOTES:

1. 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° .