



CORPORATION

16AVP4

5600 WEST JARVIS AVENUE

CHICAGO 48, ILLINOIS

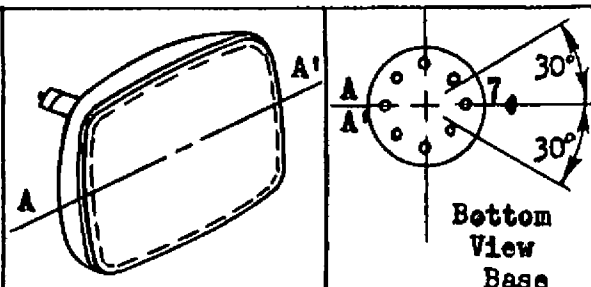
TELEPHONE MULBERRY 5-5000

TELETYPE 312-265-1293

DESCRIPTION

16" Direct View
 Rectangular Glass Envelope
 Spherical Faceplate
 Gray Filter Glass
 Aluminized Screen
 6.3 Volt, 450 Ma. Heater
 Bonded Implosion Panel

Low G₂ Voltage (35 V.)
 Cathode Drive Design
 114° Magnetic Deflection
 Electrostatic Focus
 External Conductive Coating
 No Ion Trap

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

900 min. uuf

Heater Current at 6.3 Volts

450 + 10% ma.

Heater Warm-up Time

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.



Rauland

16AVP4

CHICAGO 48, ILLINOIS

TELETYPE 312-265-1293



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°