**23EDP4** 

6600 WEST JARVIS AVENUE

CHICAGO 48, ILLINOIS

TELEPHONE MULBERRY 5-5000 TELETYPE 312-265-1293

#### DESCRIPTION

23" Direct View Rectangular Glass Envelope Gray Filter Glass Aluminized Screen 6.3 Volts, 600 Ma. Heater

Bonded Implosion Panel 92° Magnetic Deflection Electrostatic Focus External Conductive Coating No Ion Trap

#### ELECTRICAL DATA

Focusing Method	Electrostatic
Deflection Angles (Approximate)	
Horizontal Horizontal	81 Degrees
Vertical	66 Degrees
Diagonal	92 Degrees
Direct Interelectrode Capacitances	•
Cathode to all other electrodes (approx.) Grid #1 to all other electrodes (approx.)	5 uuf
Grid #1 to all other electrodes (approx.)	5 uuf 6 uuf
External Conductive Coating to Anode	2,500 max. uuf
•	2,000 min. uuf
Heater Current at 6.3 volts	600+ 10% Ma
Heater Warm-up time	11 Seconds
OPTICAL DATA	

Phosphor Number Light Transmittance at Center (approx.) P4 Aluminized<sup>1</sup> 46 Percent

### MECHANICAL DATA

Overall Length Greatest Dimensions of Tube	18 3/16 <u>+</u> 7/16 inches
Diagonal Width	23 7/16 + 1/8 Inches 20 1/2 + 1/8 Inches
Height	16 1/2 + 1/8 inches
Minimum Useful Screen Dimensions (Projected	)
Diagonal	22 5/16 inches
Horizontal Axis	19 5/16 inches
Vertical Axis	15 1/4 inches
Area	282 Sq. Inches
Neck Length	5 1/2 + 3/16 Inches
Bulb	J18701
Implosion Panel	FP187B2
Bulb Contact	J1-21
Base	B6-203
Basing	12L
Bulb Contact Alignment	
J1-21 contact aligns with pin position #6	± 30 degrees

from JEDEC release #4821, Oct. 5, 1964

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## RATINGS (Design Maximum System)

Unless otherwise specified, voltage values are positive and measured with respect to cathode.

Maximum Anode Voltage	25,000 Volts
Minimum Anode Voltage	16,000 Volts
Maximum Grid #4 (Focusing Electrode) vol	tage +1100-550
Maximum Grid #2 Voltage	550 Volts
Minimum Grid #2 Voltage	200 Volts
Grid #1 Voltage	
Maximum Negative Value	155 Volts DC
Maximum Negative Peak Value	200 Volts
Maximum Positive Value	0 Volts
Maximum Positive Peak Value	2 Volts
Maximum Heater Voltage	7 Volts
Minimum Heater Voltage	5.8 Volts
Maximum Heater-Cathode Voltage	
Heater negative with respect to cathode	₽
During warm-up time no to exceed 15 se	
After equipment warm-up period	200 Volts
Heater positive with respect to cathode	e 200 Volts

#### TYPICAL OPERATING CONDITIONS

#### GRID DRIVE SERVICE

Unless otherwise specified, all voltage values are positive with respect to cathode.

Anode Voltage	20,000 Volts DC
Grid #4 (Focusing Electrode) voltage (Notes 2 and 3)	250 Volts DC
Grid #2 Voltage	300 Volts DC
Grid #1 Voltage (Note 1)	-35 to -72 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 200 micro-amperes on a 19 5/16" x 15 1/4" pattern from RCA 2F21 Monoscope or equivalent.
- 3. Individual tubes will have satisfactory focus at some value between 0 and 500 volts

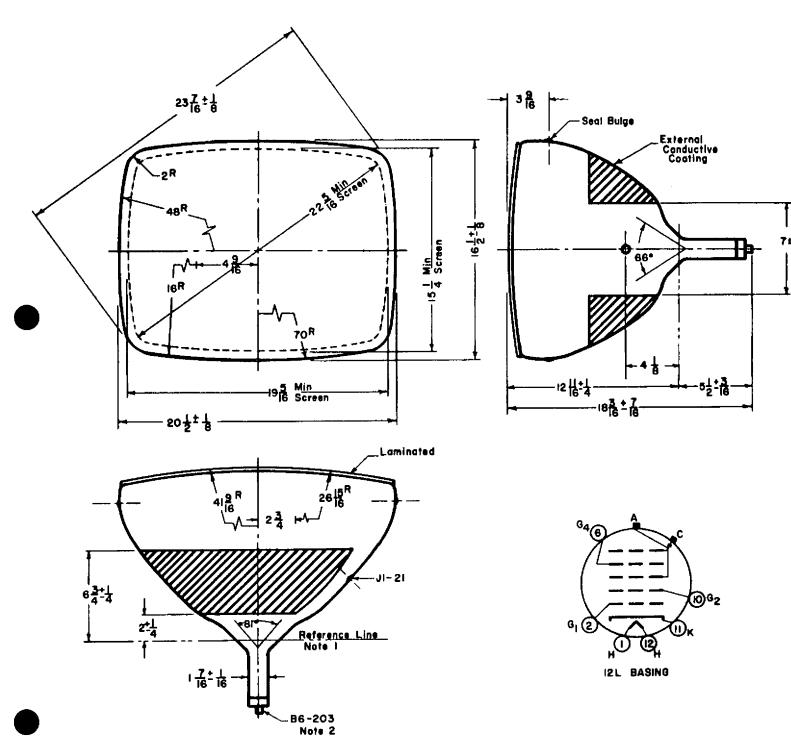


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NOTES:

- 1. Reference Line determined by Plane C-C' of J.E.D.E.C. Reference Line Gauge no. 116.
- 2. Base pin no. 6 aligns with anode contact within 30°