



CORPORATION

5600 WEST JARVIS AVENUE

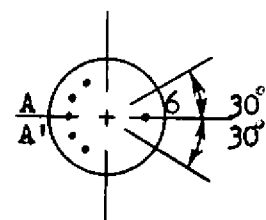
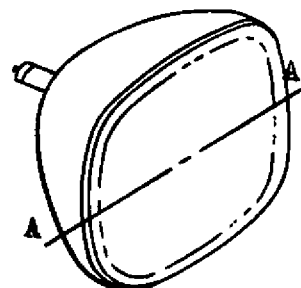
CHICAGO 48, ILLINOIS

TELEPHONE MULBERRY 5-5000

TELETYPE 312-265-1293

24BCP4DESCRIPTION

24" Direct View	90° Magnetic Deflection
Rectangular Glass Envelope	Electrostatic Focus
Spherical Faceplate	External Conductive Coating
Gray Filter Glass	No Ion Trap
Aluminized Screen	Bonded Implosion Panel
6.3 Volt, 600 Ma. Heater	

BOTTOM VIEW
BASEELECTRICAL DATA

Focusing Method	Electrostatic
Deflection Angles, Approximate	
Horizontal	85 Degrees
Vertical	68 Degrees
Diagonal	90 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	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	P4 Aluminized
Light Transmittance at Center, Approximate	45 Percent

MECHANICAL DATA

Overall Length	19 3/8 ± 7/16 Inches
Greatest Dimensions of Tube	
Diagonal	24 ± 1/8 Inches
Width	22 11/16 ± 1/8 Inches
Height	18 7/16 ± 1/8 Inches
Minimum Useful Screen Dimensions (Projected)	
Diagonal	22 11/16 Inches
Horizontal Axis	21 7/16 Inches
Vertical Axis	16 7/8 Inches
Area	332 Sq. Inches
Neck Length	5 1/2 ± 3/16 Inches
Bulb	J192A2
Implosion Panel	PPG SK3123 or equivalent
Bulb Contact	J1-21
Base	B6-203
Basing	12L
Bulb Contact Alignment	
Anode contact aligns with pin position #6	± 30 Degrees

RATINGS (Design Maximum System)

Unless otherwise specified, voltages are positive and measured with respect to cathode

Maximum Anode Voltage	22,000	Volts
Minimum Anode Voltage	16,000	Volts
Maximum Grid #4 (Focusing Electrode) Voltage	+ 1100 - 500	Volts
Maximum Grid #2 Voltage	550	Volts
Minimum Grid #2 Voltage	200	Volts
Grid #1 Voltage		
Maximum Negative Value	220	Volts DC
Maximum Negative Peak Value	155	Volts
Maximum Positive Value	0	Volts DC
Maximum Positive Peak Value	2	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	450	Volts
After equipment warm-up period	200	Volts
Heater positive with respect to cathode	200	Volts

TYPICAL OPERATING CONDITIONS

GRID DRIVE SERVICE

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

Anode Voltage	18,000	Volts
Grid #4 Voltage (Focusing Electrode) ^{2, 3}	250	Volts
Grid #2 Voltage ₁	400	Volts
Grid #1 Voltage ¹	-36 to -94	Volts

MAXIMUM CIRCUIT VALUES

Maximum Grid #1 Circuit Resistance	1.5	Megohms
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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 100 microamperes on a 21 7/16 x 16 7/8 pattern from 2F21 Monoscope or equivalent.
3. Individual tubes will have satisfactory focus at some value between 0 and 400 volts.

THE



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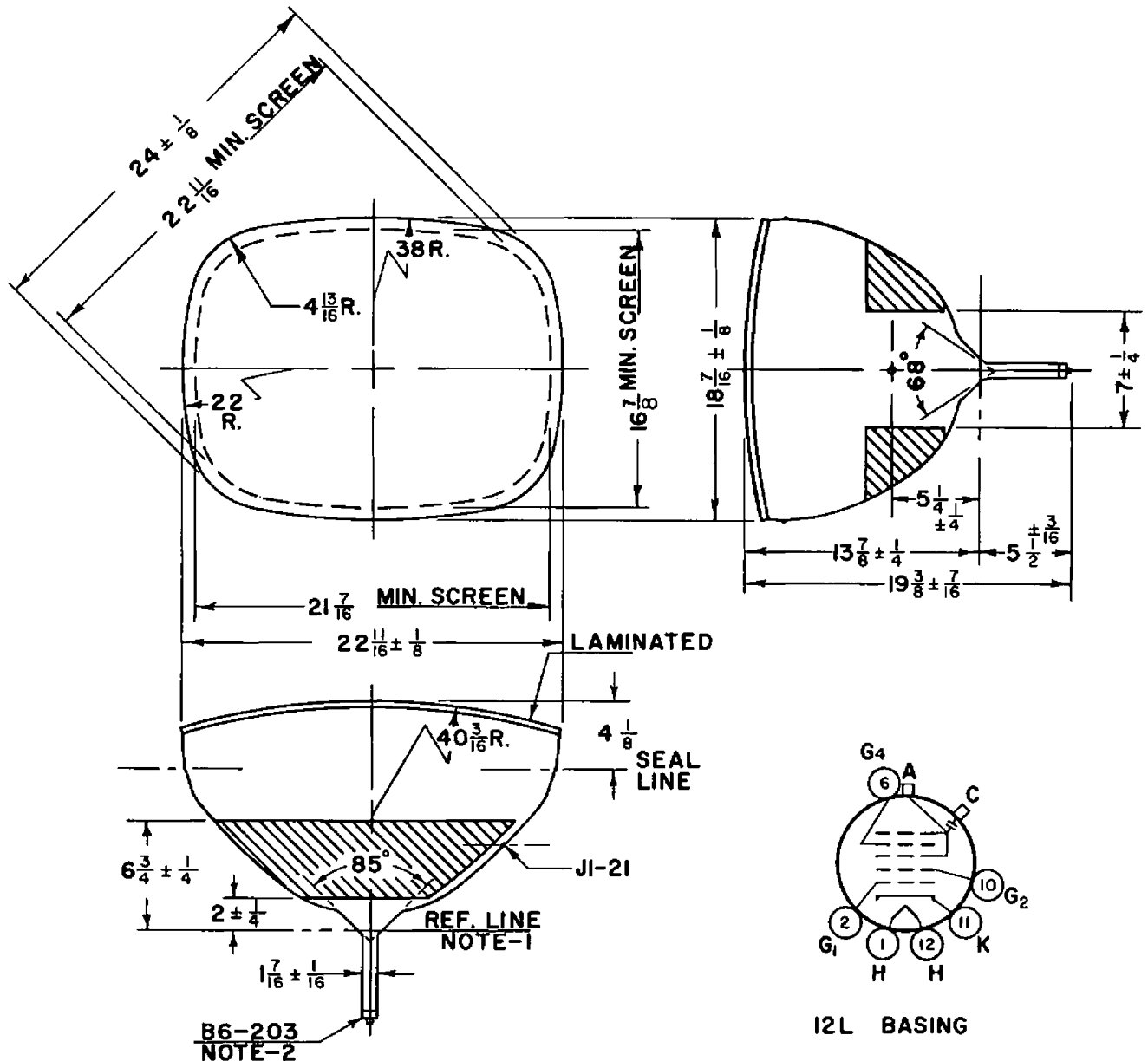
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NOTES

1. REFERENCE LINE DETERMINED BY PLANE C-C OF JEDEC. REFERENCE LINE GAUGE NO.116
2. BASE PIN NO.6 ALIGNS WITH ANODE CONTACT WITHIN 30°