CHARACTERISTICS

GENERAL DATA

Focusing Method	Electrostatic
Deflecting Method	Magnetic
Deflecting Angles (Approx.)	
Vertical	50 Degrees
Horizontal	65 Degrees
Diagonal	70 Degrees
Phosphor	Aluminized, P4
Fluorescence	White
Persistence	Short to Medium
Faceplate	Gray Filter Glass
Light Transmittance (Approx.)	74 Percent

ELECTRICAL DATA

Heater Voltage	6.3 Volts	
Heater Current	0.6 ± 5% Ampere	
Direct Interelectrode Capacitances (Approx.)		
Cathode to All Other Electrodes	5 μμf	
Grid No. 1 to All Other Electrodes	6.5 μμf	
External Conductive Coating to Anode[1]	1500 μμf	Max.
	750 μμf	Min.

MECHANICAL DATA

Maximum Useful Screen Dimensions	11⅛ x 14 5/16 Inches
Minimum Useful Screen Area	149 Sq. Inches
Bulb Contact (Recessed Small Cavity Cap)	J1-21
Bulb	J133B or J133D
Base (Small Shell Duodecal 6-Pin)	B6-63
Basing	12L

RATINGS

MAXIMUM RATINGS (Absolute Maximum Values)

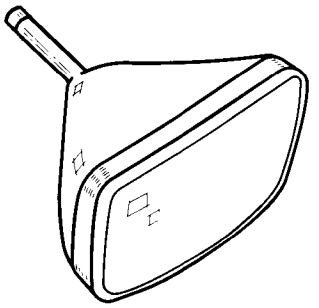
Anode Voltage	22,000 Volts	dc
Grid No. 4 (Focusing Electrode)		
Voltage	−550 to +1100 Volts	dc
Grid No. 2 Voltage	700 Volts	dc
Grid No. 1 Voltage		
Negative Bias Value	180 Volts	dc
Negative Peak Value	220 Volts	dc
Positive Bias Value	0 Volts	
Positive Peak Value	2	
Peak Heater-Cathode Voltage	Volts	
Heater Negative 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	

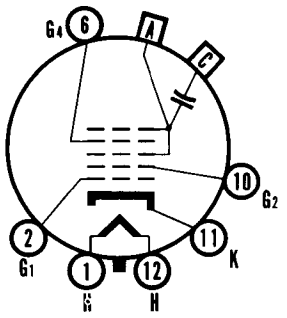
TYPICAL OPERATING CONDITIONS (Grid Drive Service)

Anode Voltage	18,000 Volts	dc
Grid No. 4 Voltage for Focus	0 to 400 Volts	dc
Grid No. 2 Voltage	300 Volts	dc
Grid No. 1 Voltage Required for Cutoff[2]	−35 to −72 Volts	dc

QUICK REFERENCE DATA

Television Monitor Tube
17" Direct Viewed
Rectangular Glass Type
Gray Filter Glass
Magnetic Deflection
Low Voltage Electrostatic Focus
No Ion Trap Required
External Conductive Coating
Spherical Faceplate
Aluminized Screen
High Resolution





12-L

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SPECIAL AND GENERAL PURPOSE
CATHODE RAY TUBES

CIRCUIT VALUES

Grid No. 1 Circuit Resistance . . . . . 1.5 Megohms Max.

NOTES:

1. *External conductive coating must be grounded.*
2. *Visual extinction of focused raster. Extinction of stationary focused spot will require that these values be about 5 volts more negative.*

WARNING:

X-ray radiation shielding may be necessary to protect against possible danger of personal injury from prolonged exposure at close range if this tube is operated at higher than the manufacturer's Maximum Rated Anode Voltage or 16,000 volts, whichever is less.

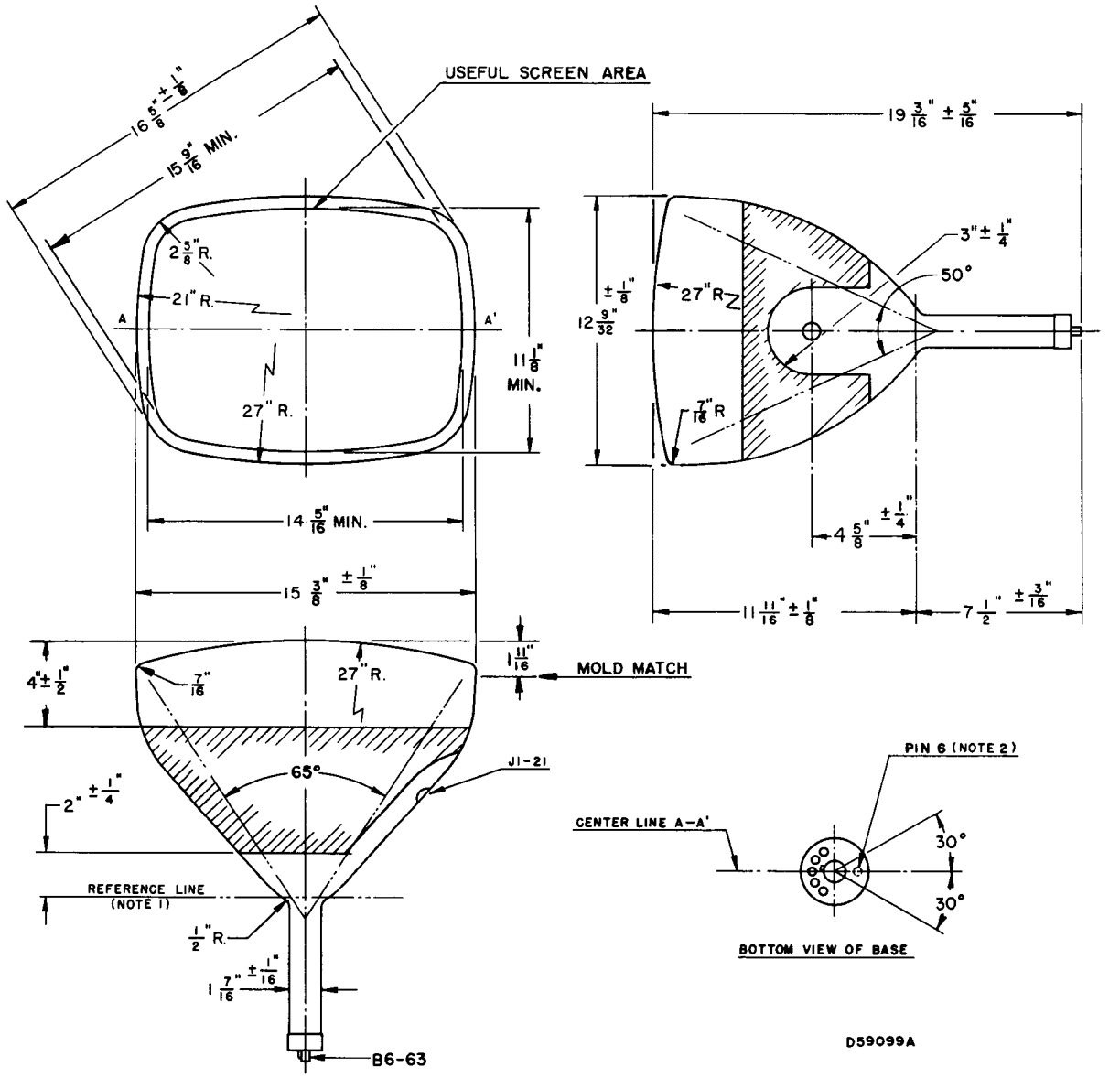

DIAGRAM NOTES:

1. *Reference line is determined by the plane of the upper edge of the reference line gauge (JEDEC No. 110) when the gauge is seated on the glass cone.*
2. *Pin #6 aligns with horizontal centerline within 30° and is on same side as anode contact (J1-21).*