

CHARACTERISTICS

GENERAL DATA

Focusing Method	Electrostatic
Deflection Method	Magnetic
Deflection Angles (Approx.)	
Vertical	53 Degrees
Horizontal	67 Degrees
Diagonal	72 Degrees
Phosphor	P4
Fluorescence	White
Persistence	Short to Medium
Faceplate	Gray Filter Glass
Light Transmittance (Approx.)	75 Percent

ELECTRICAL DATA

Heater Voltage	6.3 Volts	
Heater Current	$0.6 \pm 5\%$ Ampere	
Direct Interelectrode Capacitances (Approx.)		
Cathode to All Other Electrodes	5 μmf	
Grid No. 1 to All Other Electrodes	6.5 μmf	
External Conductive Coating to Anode ¹	1500 μmf	Max.
	1200 μmf	Min.

MECHANICAL DATA

Minimum Useful Screen Dimensions	19 1/16 x 15 1/16 Inches
Minimum Useful Screen Area	262 Sq. Inches
Bulb	J171B or J171F
Bulb Contact (Recessed Small Cavity Cap)	J1-21
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	
Positive Bias Value	0 Volts	dc
Positive Peak Value	2 Volts	
Peak Heater-Cathode Voltage		
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

CIRCUIT VALUES

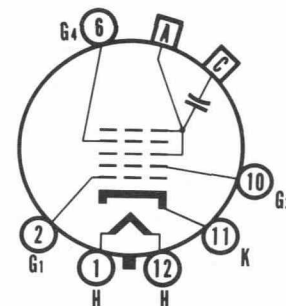
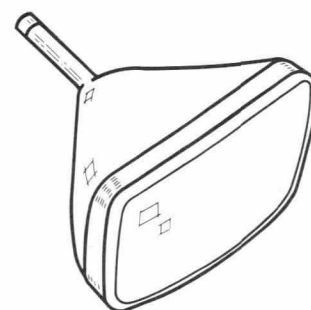
Grid No. 1 Circuit Resistance	1.5 Megohms Max.
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NOTES:

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

QUICK REFERENCE DATA

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



12-1

SYLVANIA ELECTRONIC TUBES

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File Under
SPECIAL AND GENERAL PURPOSE
CATHODE RAY TUBES

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.



1. Pin No. 6 aligns with horizontal centerline within 30° and is on same side as anode contact (J1-21).
2. With the tube neck inserted through the flared end of Reference-Line Gauge (JEDEC No. 110) and with the tube seated in the gauge, the reference line is determined by the intersection of the plane cc' (face of the flared end) of the gauge with the glass funnel.
3. Contact area of external conductive coating 2" min. x 2" min. located $2" \pm \frac{1}{4}"$ from reference line 90° counterclockwise from anode button as viewed from base end of tube.