

**CHARACTERISTICS**

**GENERAL DATA**

Focusing Method . . . . .	Electrostatic
Deflecting Method . . . . .	Magnetic
Deflection Angle (approx.) . . . . .	53°
Phosphor . . . . .	Aluminized P 16
Fluorescence . . . . .	Violet and near Ultra-Violet
Persistence . . . . .	Extremely Short
Faceplate . . . . .	Clear

**ELECTRICAL DATA**

Heater Voltage . . . . .	6.3 Volts
Heater Current . . . . .	0.6 Amperes
Direct Interelectrode Capacitances (approx.)	
Cathode to All Other Electrodes . . . . .	5 $\mu$ fd
Grid No. 1 to All Other Electrodes . . . . .	6 $\mu$ fd
Ion Trap . . . . .	No Ion Trap Required

**MECHANICAL DATA**

Minimum Useful Screen Diameter (Maximum Assured) . . . . .	4 $\frac{1}{4}$ Inches
Overall Length . . . . .	10 $\frac{5}{8}$ $\pm$ $\frac{3}{8}$ Inches
Bulb Contact (Recessed Small Ball Cap) . . . . .	J1-22
Base (Small Shell Duo Decal 6 Pin) . . . . .	B6-63
Basing . . . . .	12M
Bulb . . . . .	J39 $\frac{1}{2}$ L

**RATINGS**

**MAXIMUM RATINGS (Absolute Maximum Values)**

Anode Voltage . . . . .	19,800 Volts	dc
Grid No. 4 Voltage (Focusing Electrode) . . . . .	-550 to +1100 Volts	dc
Grid No. 2 Voltage . . . . .	550 Volts	dc
Grid No. 1 Voltage		
Negative Bias Value . . . . .	155 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**

Anode Voltage . . . . .	14,000 Volts	dc
Grid No. 4 Voltage for Focus . . . . .	-50 to + 350 Volts	dc
Grid No. 2 Voltage . . . . .	300 Volts	dc
Grid No. 1 Voltage for Cutoff <sup>1</sup> . . . . .	-28 to -72 Volts	dc

**CIRCUIT VALUES**

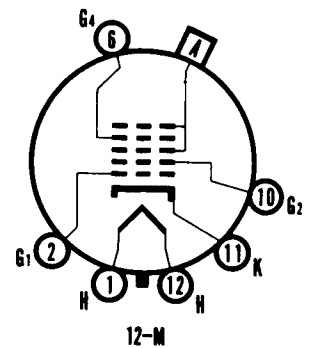
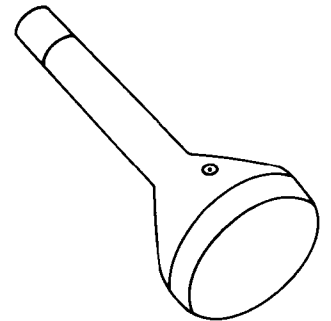
Grid No. 1 Circuit Resistance . . . . .	1.5 Megohms Max.
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**NOTE:**

1. Visual Extinction of Raster.

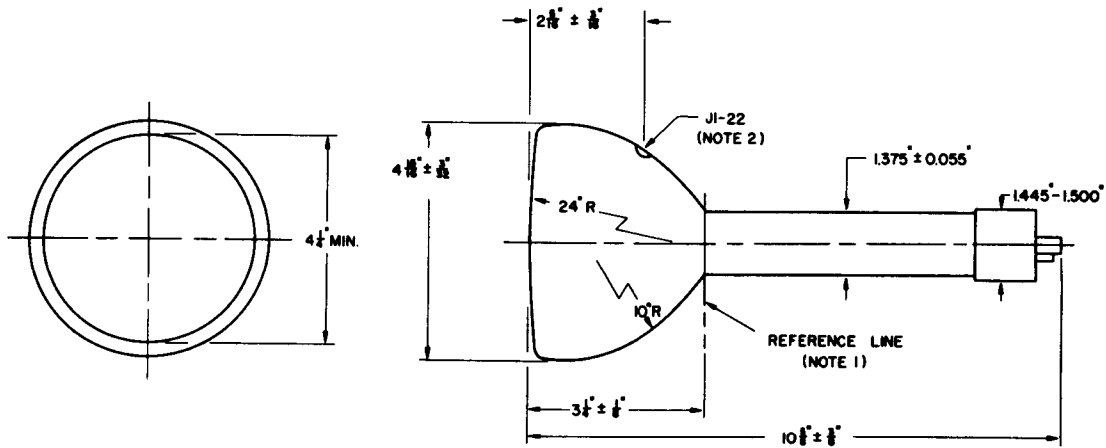
**QUICK REFERENCE DATA**

- Flying Spot Scanner Tube
- 5" Round Glass Type
- Spherical Faceplate
- Clear Faceplate
- Magnetic Deflection
- Electrostatic Focus
- No Ion Trap
- Aluminized Screen



**SYLVANIA ELECTRIC PRODUCTS INC.**  
**TELEVISION PICTURE TUBE DIVISION**  
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**DIAGRAM NOTES:**

1. Reference line is determined by the plane C-C' of JETEC gauge 116 with gauge resting against bulb cone.
2. Anode contact (J1-22) aligns with Base Pin No. 6  $\pm 30^\circ$ .

**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.*