

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 μ fd
Grid No. 1 to All Other Electrodes	6 μ fd
Ion Trap	No Ion Trap Required

MECHANICAL DATA

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

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 ¹	-28 to -72 Volts	dc

CIRCUIT VALUES

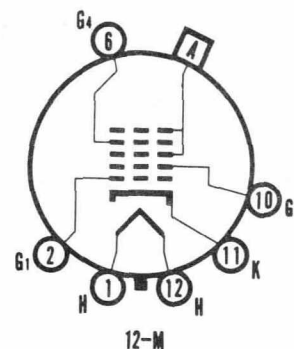
Grid No. 1 Circuit Resistance	1.5 Megohms Max.
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NOTE:

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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5BNP16

Technical drawing of a propeller. The drawing includes a top view (left) and a side view (right). The top view shows a circular propeller with a minimum thickness of $4\frac{1}{4}$ MIN. The side view shows the propeller's profile with the following dimensions and callouts:

- Overall length: $10\frac{5}{8} \pm \frac{3}{16}$
- Hub diameter: $2\frac{1}{8} \pm \frac{1}{16}$
- Hub thickness: $4\frac{1}{8} \pm \frac{3}{16}$
- Blade length from hub face: $3\frac{1}{4} \pm \frac{1}{8}$
- Blade tip radius: $24^\circ R$
- Blade root radius: $10^\circ R$
- Blade thickness at root: 1.375 ± 0.055
- Blade thickness at tip: $1.445 - 1.500$
- Material: JI-22 (NOTE 2)
- Reference Line (NOTE 1) is indicated at the base of the blade.

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 $\pm 30^\circ$.

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.