

CHARACTERISTICS

GENERAL DATA

Focusing Method	Magnetic
Deflecting Method	Magnetic
Deflection Angle (Approx.)	50 Degrees
Phosphor	Aluminized, P7
Fluorescence	Blue-White
Phosphorescence	Yellow
Persistence	Long
Faceplate	Gray Glass
Light Transmittance (Approx.)	76 Percent

* In addition to the type shown, the 10AKP- can be supplied with several other screen phosphors.

ELECTRICAL DATA

Heater Voltage	6.3 Volts
Heater Current	$0.6 \pm 10\%$ Ampere
Direct Interelectrode Capacitances (Approx.)	
Cathode to All Other Electrodes	5 μmf
Grid No. 1 to All Other Electrodes	8 μmf

MECHANICAL DATA

Minimum Useful Screen Diameter	9 Inches
Bulb Contact (Recessed Small Cavity Cap)	J1-21
Base	B5-57
Basing	12D
Bulb	J84C

RATINGS

MAXIMUM RATINGS (Absolute Maximum Values)

Anode Voltage	11,000 Volts	dc
Grid No. 2 Voltage	1100 Volts	dc
Grid No. 1 Voltage		
Negative Bias Value	200 Volts	dc
Positive Bias Value	0 Volts	dc
Positive Peak Value	2 Volts	
Peak Grid No. 1 Drive from Cutoff	65 Volts	
Peak Heater-Cathode Voltage		
Heater Negative with Respect to Cathode	200 Volts	
Heater Positive with Respect to Cathode	200 Volts	

TYPICAL OPERATING CONDITIONS

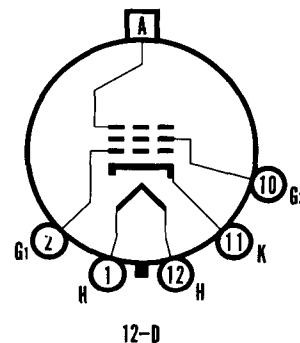
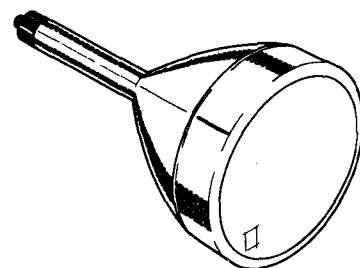
Anode Voltage	8000 Volts	dc
Grid No. 2 Voltage	700 Volts	dc
Grid No. 1 Voltage Required for Cutoff ¹	-35 to -80 Volts	dc
Focusing Coil Current (Approx.) ²	105 Ma	dc
Linewidth A ³	.30 mm	Max.
Spot Position (Undelected) ⁴	18 mm	Max.

CIRCUIT VALUES

Grid No. 1 Circuit Resistance	1.5 Megohms Max.
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QUICK REFERENCE DATA

Radar Indicator Tube
High Resolution
10" Round Glass Type
Spherical Faceplate
Gray Glass
Aluminized Screen
Magnetic Deflection
Magnetic Focus



SYLVANIA ELECTRONIC TUBES

A Division of
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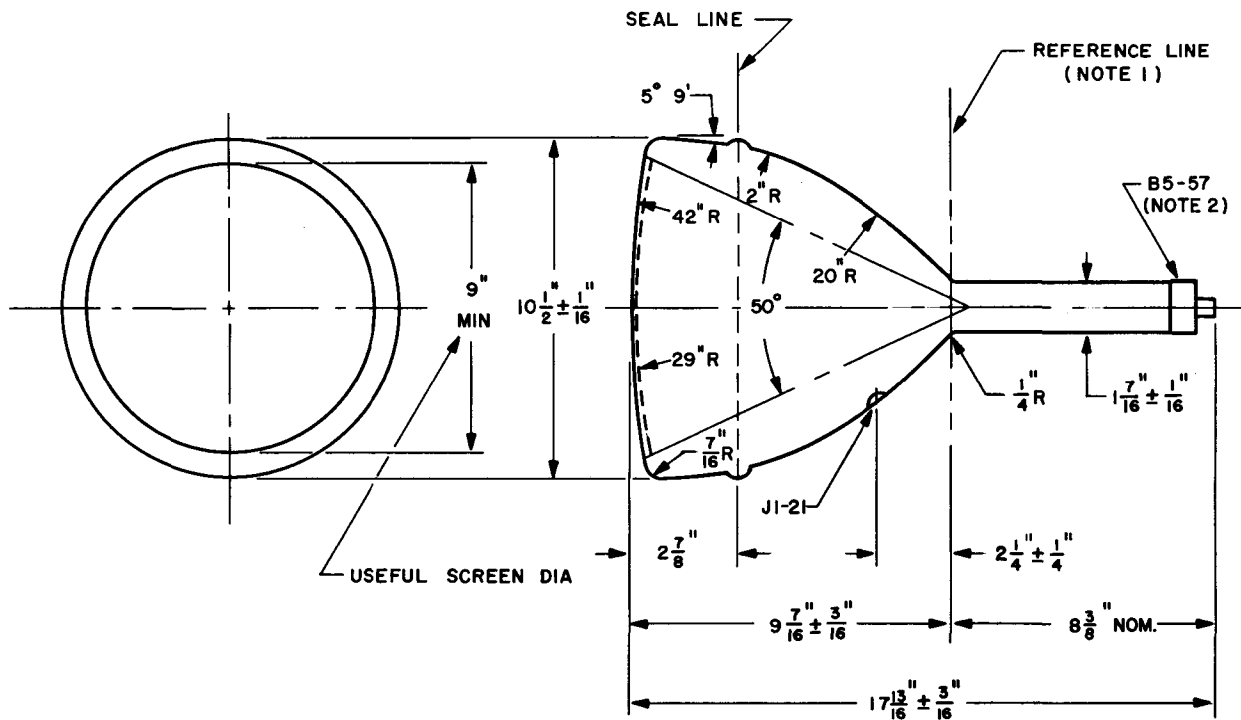
File Under
SPECIAL AND GENERAL PURPOSE
CATHODE RAY TUBES

NOTES:

1. Visual extinction of undeflected focused spot.
2. For JEDEC focusing coil No. 106 with distance from the yoke reference line to center of air gap equal to $3\frac{1}{4}$ inches.
3. Measured in accordance with Mil-E-1, paragraph 4.12.6.2, at an anode current of $200 \mu\text{a}$.
4. The center of the undeflected, unfocused spot will fall within a circle of 18 m.m. radius, concentric with the tube face.

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.



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DIAGRAM NOTES:

1. Reference line is determined by position where JEDEC No. 112 reference line gauge will seat against bulb.
2. Anode contact (J1-21) aligns with Vacant Pin Position No. 3 within 10 degrees.