SYLVANIA

engineering data service

SYLVANIA
10VP15
10VP*

CHARACTERISTICS

GENERAL DATA

Focusing Method	Magnetic
Deflecting Method	Magnetic
Deflection Angle (Approx.)	50 Degrees
Phosphor	Aluminized, P15
Fluorescence	Blue-Green
Persistence	Extremely Short
Faceplate	Clear Glass

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

ELECTRICAL DATA

Heater Voltage	6.3	Volts
Heater Current	0.6 ± 10%	Ampere
Direct Interelectrode Capacitances (approx.)		
Cathode to All Other Electrodes	5	μμf
Grid No. 1 to All Other Electrodes	6	μμf
External Conductive Coating to Anode[1]	2,500	μμf Max.
	500	μμf Min.

MECHANICAL DATA

Minimum Useful Screen Diameter	9⅛ Inches
Bulb Contact (Recessed Small Cavity Cap)	J1-21
Base (Small Shell Duodecal 5-Pin)	B5-57
Basing	12N
Bulb	J84C or J84D
Weight	9 Pounds

RATINGS

MAXIMUM RATINGS (Absolute Maximum Values)

Anode Voltage	13,200 Volts	dc
Grid No. 2 Voltage	450 Volts	dc
Grid No. 1 Voltage		
Negative Bias Value	140 Volts	dc
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 Warm-up Period	154 Volts	
Heater Positive with Respect to Cathode	154 Volts	

TYPICAL OPERATING CONDITIONS

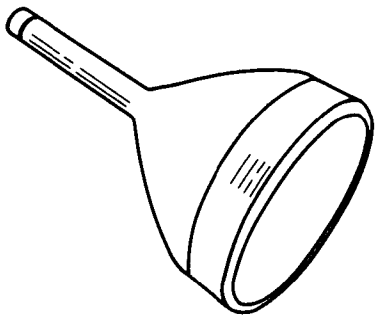
Anode Voltage	11,000 Volts	dc
Grid No. 2 Voltage	250 Volts	dc
Grid No. 1 Voltage Required for Cutoff[2]	−28 to −72 Volts	dc
Focusing Coil Current (Approx.)[3]	110 Ma	dc
Spot Position (Undeflected)	16 mm	Max.

CIRCUIT VALUES

Grid No. 1 Circuit Resistance	1.5 Megohms Max.

QUICK REFERENCE DATA

Flying Spot Scanner
10" Round Glass Type
Spherical Faceplate
Clear Glass
Aluminized Screen
Magnetic Deflection
Magnetic Focus
External Conductive Coating



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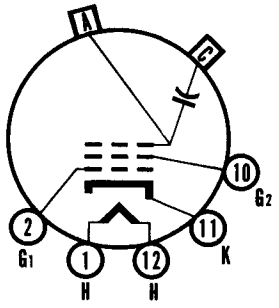

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SYLVANIA
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NOTES:

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.*
3. *For standard focus coil EIA No. 106 or equivalent, with the combined Grid No. 1 bias voltage and video-signal voltage adjusted to produce a highlight brightness of 40 foot-lamberts on a 6 inch by 8 inch picture area. Center of the air gap of the coil to reference line shall be 3¼ inches.*

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.

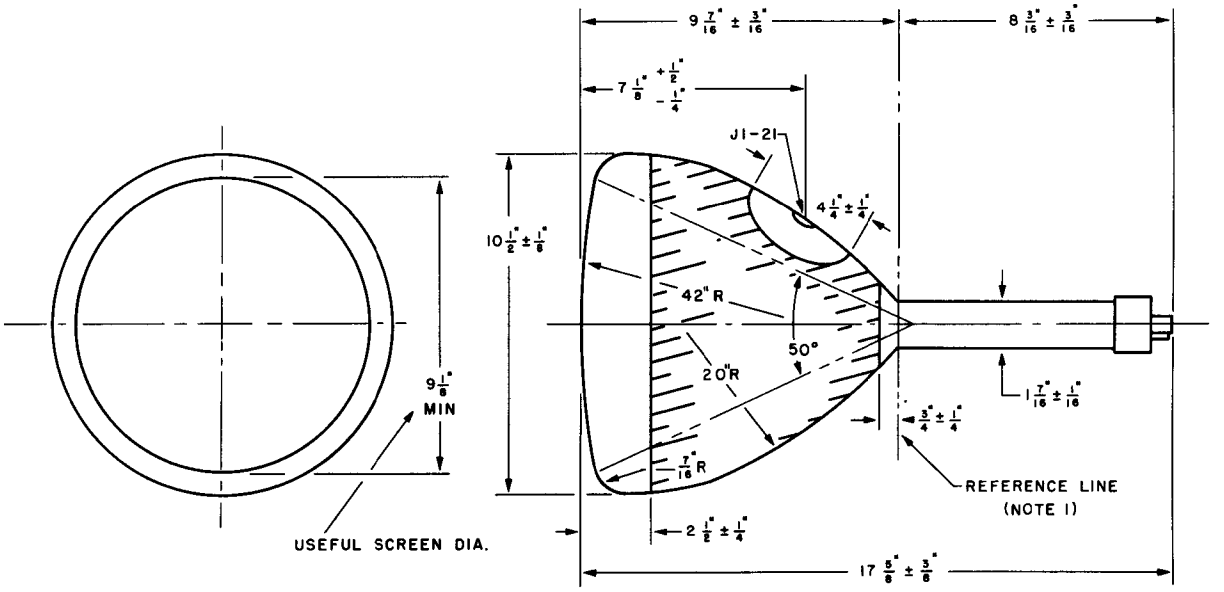

DIAGRAM NOTES:

1. *Reference line is determined by position where JETEC No. 112 reference line gauge will seat against bulb.*
2. *Vacant position Pin No. 3 aligned with anode, contact cap (J1-21) within 30 degrees.*