

engineering data service

27GP4

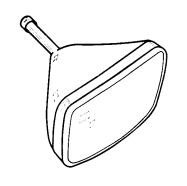
CHARACTERISTICS

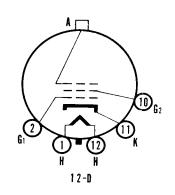
GENERAL DATA	
Focusing Method	
Deflecting Method Magnetic	
Deflection Angle (approx.)	
Horizontal	Degrees
Diagonal	Degrees
Phosphor	
Fluorescence	
Persistence	
Faceplate Gray Filter Glass	D.
Light Transmittance (approx.)	Percent
ELECTRICAL DATA	
Heater Voltage 6.3	Volts
Heater Voltage	Ampere
Direct Interelectrode Capacitances (approx.)	
Cathode to all Other Electrodes	$\mu\mu\mathrm{f}$
Cathode to all Other Electrodes	$\mu\mu\mathrm{f}$
Ion Trap Magnet External, Single Field Type	
MECHANICAL DATA	
Minimum Useful Screen Dimensions 241/4 x 181/2	Inches
Bulb Contact (Recessed Small Cavity Cap)	
Basing	
Dasing	
RATINGS	
MAXIMUM RATINGS (Design Center Values)	
Anode Voltage	Volts de
Grid No. 2 Voltage	
Grid No. 1 Voltage	
Negative Bias Value	Volts dc
Positive Bias Value 0	
Positive Peak Value	Volts
Peak Heater-Cathode Voltage	
Heater Negative with Respect to Cathode	
During Warm-up Period Not to Exceed 15 Seconds . 410	Volts
After Equipment Warm-up Period	Volts
Heater Positive with Respect to Cathode 180	Volts
RECOMMENDED OPERATING CONDITIONS	
Anode Voltage ¹	Volta de
Grid No. 2 Voltage 300	Volts de
Grid No. 2 Voltage	Volts de
Focusing Coil Current ³	Ma de
Focusing Coil Current ³	Gausses
CIRCUIT VALUES	
Grid No. 1 Circuit Resistance	Megohms Max.
NOTES:	

- 1. Brilliance and definition decrease with decreasing anode voltage. In general, the anode voltage should not be less than this value.
- 2. Visual extinction of focused raster. Extinction of the stationary focused spot will require that these values be about 5 volts more negative.
- 3. For JETEC focusing coil No. 109 or equivalent 3 inches from reference line with the combined grid No. 1 bias voltage and video signal voltage adjusted to produce a highlight brightness of 20 foot lamberts on a picture area of 241/4 x 181/2 inches.

QUICK REFERENCE DATA

Television Picture Tube 27" Direct Viewed Rectangular Glass Type Spherical Faceplate Gray Filter Glass Magnetic Deflection Magnetic Focus Single Field Ion Trap





SYLVANIA ELECTRIC PRODUCTS INC.

TELEVISION PICTURE TUBE DIVISION SENECA FALLS, NEW YORK

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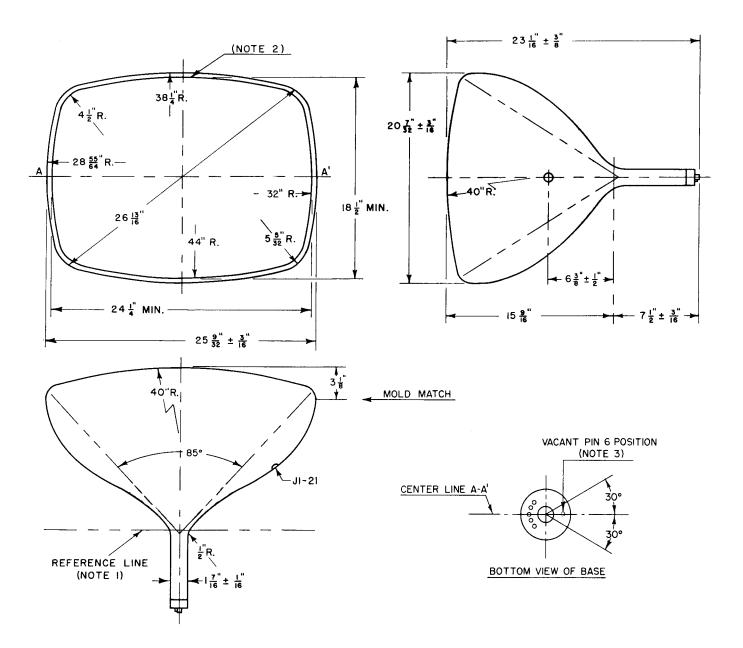


DIAGRAM NOTES:

- 1. Reference line is determined by the plane C-Cl of the reference line gauge (JETEC No. 116) when the gauge is resting on the cone. The neck diameter near the cone may exceed 1.500" but is limited by the internal contour of the yoke reference line gauge.
- 2. Suggested mask opening.
- 3. Bulb contact aligns with vacant pin position No.6 \pm 30 degrees.

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.