

engineering data service

8FP4

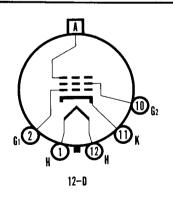
CHARACTERISTICS

GENERAL DATA		
Focusing Method Magnetic	c	
Deflection Method Magnetic		
Deflection Angles (approx.)		
Vertical	Degrees	s
Horizontal		
Diagonal	Degree:	S
Phosphor Aluminized P4	į	
Fluorescence	:	
Persistence Short to Medium	1	
Faceplate Gray Filter Glass	;	
Light Transmittance (approx.) 80) Percent	
ELECTRICAL DATA		
Heater Voltage 6.3	Volts	
Heater Current		
Heater Warm-up time ¹		
Direct Interelectrode Capacitances (approx.)	occomas	•
Cathode to All Other Electrodes	uuf	
	$\mu\mu$ f	
Ion Trap Magnet External, Single Field Type		
MECHANICAL DATA		
Minimum Useful Screen Dimensions		
Bulb Contact (Recessed Small Cavity Cap)		
Base (Small Shell Duodecal 5-Pin)		
Basing		
Weight (approx.)	Pounds	
RATINGS		
MAXIMUM RATINGS (Absolute-Maximum Values)		
Anode Voltage	Volts	do
Grid No. 2 Voltage	Volts	do
Grid No. 1 Voltage		
Negative Bias Value	Volts	do
	Volts	
	Volts	do
	Volts	
Peak Heater-Cathode Voltage		
Heater Negative with Respect to Cathode		
	Volts	
• • •	Volts	
Heater Positive with Respect to Cathode 200	Volts	
TYPICAL OPERATING CONDITIONS		
Anode Voltage	Volts	do
	Volts	do
Grid No. 1 Voltage Required for Cutoff ² 35 to -72		do
Focusing Coil Current ³		do
	Ma	do
	Gausses	

QUICK REFERENCE DATA

Monitor Tube 8" Rectangular, All Glass Magnetic Focusing Ion Trap 90° Magnetic Deflection **Gray Filter Glass** Aluminized Screen





SYLVANIA ELECTRIC PRODUCTS INC.

TELEVISION PICTURE TUBE **DIVISION** SENECA FALLS, NEW YORK

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CIRCUIT VALUES

Grid No. 1 Circuit Resistance 1.5 Megohms Max.

NOTES:

- 1. Heater warm-up time is defined as the time required for the voltage across the heater to reach 80% of the rated heater voltage after applying four (4) times rated heater voltage to a circuit consisting of the tube heater in series with a resistance equal to three (3) times the rated heater voltage divided by the rated heater current.
- 2. Visual extinction of focused raster. Extinction of stationary focused spot will require that these values be about 5 volts more negative.
- 3. For JETEC Focusing Coil No. 109 or equivalent, located with center of air gap 3" from reference line, bias adjusted for 20 ft. L on a 7-3/16" x 5-3/8" picture area, sharply focused at center of screen.
- 4. For JETEC Ion Trap Magnet No. 117, with pole pieces centered over Grid No. 2 on mount and rotated for maximum brightness.
- 5. For typical PM ion trap magnet with field strength tolerance of ± 3 gausses.

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.

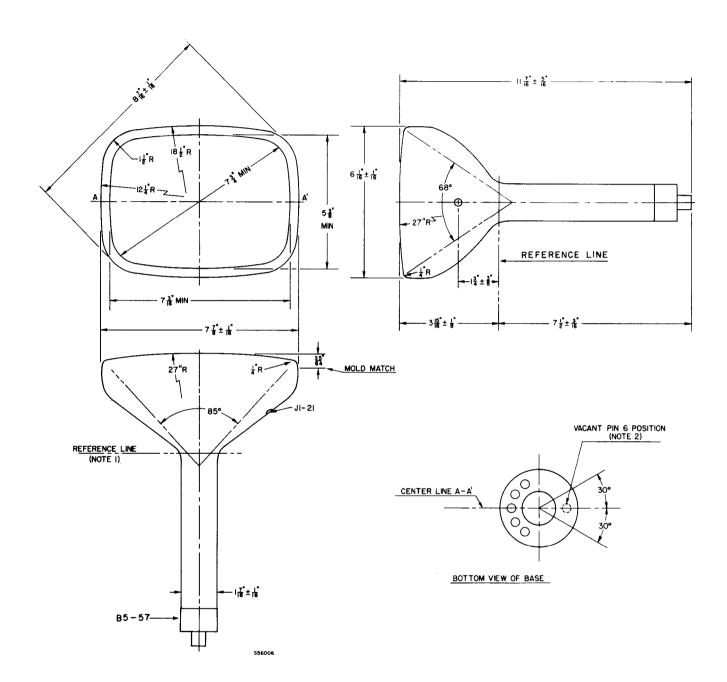


DIAGRAM NOTES:

- 1. Reference line is determined by the plan C-C' of the reference line gauge (JETEC No. 116) when the gauge is seated against the glass cone.
- 2. Anode contact aligns with vacant pin position No. 6 ± 30 degrees.

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