

R = 31.5 ohms.

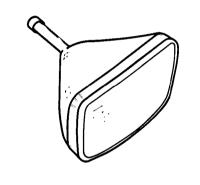
engineering data service 14SP4

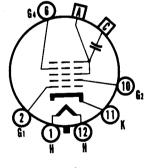
CHARACTERISTICS

CHARACTERISTICS			
GENERAL DATA			
Deflection Method		. Magnetic	
Diagonal		85 Aluminized P4 White hort to Medium	Degrees
Light Transmittance ELECTRICAL DATA	(approx.)	75	Percent
			37-1
Heater Warm-up Time ¹ Direct Interelectrode Cap	acitances (approx.)	11	Seconds
Grid No. 1 to All Ot	Electrodes	6	in f
External Conductive	Costing to Anodo?	1200	me May
External Conductive	Coating to Anode ²	1200	uuf Min.
	External, Sin	300	μμτ Min.
ion trap Magnet	External, Sil	ngie rieid Type	
MECHANICAL DATA			
Minimum Useful Screen I	Dimensions '		
(Maximum Assured)	$12 \times 9_{16}$	Inches
Minimum Useful Screen A	irea	. 103 Sq.	Inches
Bulb Contact (Récessed S Base (Small Shell Duode	mall Cavity Cap)	J1-21 B6-63	
Dasing	· · · · · · · · · · · · · · · · · · ·	12L	
	RATINGS		
MAXIMUM RATINGS (Absolute Maximum Values)			
Anode Voltage	using Electrode)	15,400	Volts dc
Grid No. 4 Voltage (Foc	using Electrode) –	-550 to +1100	Volts dc
Grid No. 2 Voltage		550	Volts dc
Grid No. 1 Voltage			
		154	Volts de
Negative Peak Value	· · · · · · · · · · · · · · · · · · ·	220	Volts
Positive Bias Value			Volts de
Positive Peak Value	· · · · · · · · · · · · · · · · · · ·		Volts
Peak Heater-Cathode Volt		2	VOICS
Heater Negative with	h Respect to Cathode		
During Warma	p Period not to Exceed		
15 Seconde	ip remod not to Exceed	450	Volte
A free Fauinmer	t Warm-up Period	200	Volts
Heater Positive with	Respect to Cathode	200	Volts
ricater rositive with	respect to Cathode	200	VOICS
TYPICAL OPERATING		12.000	T7 1
Anode Voltage		12,000	Volts dc
Grid No. 4. Voltage for	Focus	-48 to +264	Volts dc
Grid No. 2 Voltage	red for Cutoff ³	300	volts dc
Grid No. 1 Voltage Requi	red for Cutoff ³	-28 to -/2	Volts dc
Ion Trap Magnet Curren	t (Average)*	26	Ma dc
Field Strength of PM lo	n Trap Magnet ³	28	Gausses Min.
CIRCUIT VALUES			
Grid No. 1 Circuit Resis	tance	1.5	Megohms Max.
NOTES:			-
` '			
1. Heater warm-up time is the time required for the voltage across the heater terminals to increase to 5.0 volts in the JETEC test circuit, with E = 25 volts and series R = 31.5 ohms			

QUICK REFERENCE DATA

Television Picture Tube 14" Direct Viewed Rectangular Glass Type Spherical Faceplate Gray Filter Glass Magnetic Deflection Electrostatic Focus Single Field Ion Trap External Conductive Coating Aluminized Screen





12-L

SYLVANIA ELECTRIC PRODUCTS INC.

TELEVISION PICTURE TUBE **DIVISION**

SENECA FALLS, NEW YORK

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External conductive coating must be grounded.
 Visual extinction of focused raster. Extinction of stationary focused spot will re-

quire that these values be about 5 volts more negative.
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.

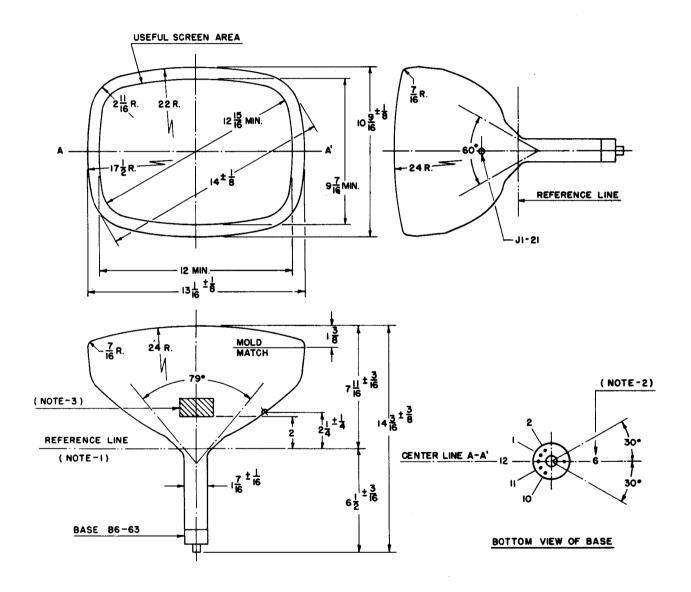


DIAGRAM NOTES:

1. Reference line is determined by the plane C-C' of the reference line gauge (JETEC No. 116) when the gauge is resting on the glass cone.

2. Base pin No. 6 aligns with anode contact terminal J1-21 within 30 degrees.

3. Contact area for external conductive coating, 2" x 2", located 90 degrees counterclockwise from anode contact as viewed from base end of tube.

4. Dimensions are in 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.