

engineering data service 19ASP4

44 Percent

CHARACTERISTICS

GENERAL DATA												
Focusing Method Electrostatic Deflection Method												
Deflection Angles (Approx.)												
Horizontal	Degrees											
Diagonal	Degrees											
Vertical	Degrees											
Phosphor Aluminized P4	•											
Fluorescence												
Persistence Short to Medium												
Faceplate Bonded Shield												
(Gray Filter Glass Safety Plate Laminated												
Directly to Face of Tube)												

Light Transmittance of Faceplate Assembly (Approx.)

ELECTRICAL DATA

Heater Voltage		6.3 Volts											
Heater Current	. 0.	30 ± 5% Ampere											
Heater Warm-up Time ¹													
Direct Interelectrode Capacitances (Approx.)													
Cathode to All Other Electrodes		5 μμ f											
Grid No. 1 to All Other Electrodes		6 μμ f											
External Conductive Coating to Anode ²		1500 $\mu\mu$ f Max.											
· ·		1000 $\mu\mu$ f Min.											

MECHANICAL DATA

Minimum Usefu	ıl	Sci	eer	1	Din	en	sio	ns	(M	I ax	im	um	A	ssı	ırec	1)		
Height																12	1/16	Inches
Width																15	5/16	Inches
Diagonal .																	173/4	Inches
Area																	174	Sq. Inches
Neck Length .																51/8	$\pm \frac{1}{8}$	Inches
Overall Length .															125	⁄8 ±	5/16	Inches
Bulb											C1	49	Ex	p.	#5	or I	quiv.	
Safety Plate .														٠.		FP	159A	
Bulb Contact (F	lec	ess	sed	Sr	nall	C	avi	ty (Cap)							J1-21	
Base																\mathbf{B}^{2}	7-208	
Basing																	8HR	
Weight (Appro	x .))															181/2	Pounds

RATINGS

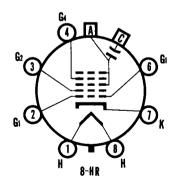
MAXIMUM RATINGS (Design Maximum Values) Grid Drive Service

Maximum Anode Voltage Minimum Anode Voltage		•	•	•								12,000	Volts	dc dc
Grid No. 4 Voltage (Focu														dc
Grid No. 2 Voltage											•	550	Volts	dc
Grid No. 1 Voltage														
Negative Bias Value												155	Volts	dc
Negative Peak Value												220	Volts	
Positive Bias Value.												0	Volts	dc
Positive Peak Value												2	Volts	
Peak Heater-Cathode Vol	age													
Heater Negative with	hŘ	esp	ect	to	Cat	ho	de							
During Warm-up								5 S	ecc	ond	s	450	Volts	
After Equipment												200	Volts	
Heater Positive with												200	Volts	
		-												

QUICK REFERENCE DATA

Television Picture Tube 19" Direct Viewed Rectangular Glass Type Spherical Faceplate Bonded Shield Gray Filter Glass Aluminized Screen **Electrostatic Focus** 114° Magnetic Deflection No Ion Trap **External Conductive Coating** 300 Ma Heater





SYLVANIA ELECTRONIC TUBES

A Division of Sylvania Electric Products Inc.

PICTURE TUBE OPERATIONS SENECA FALLS, NEW YORK

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PAGE 1 OF 3

Pile Under TELEVISION PICTURE TUBES



16,000 Volts

dc

CIRCUIT VALUES

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. External conductive coating must be grounded.
- 3. Visual extinction of focused raster. Extinction of stationary focused spot will require that these values be about 5 volts. more negative.

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.

OUTLINE

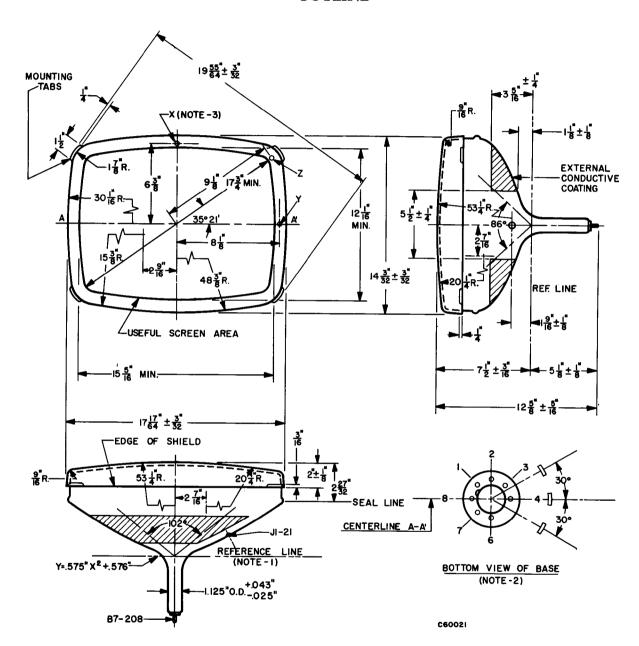


DIAGRAM NOTES:

- 1. Reference line is determined by place C-C' of JEDEC No. 126 Reference Line Gauge, when the gauge is seated against the bulb.
- 2. Base Pin No: 4 aligns with horizontal centerline (A-A') within 30° and is on same side as anode contact, J1-21.
- 3. Planes perpendicular to tube axis and passing through points X, Y and Z are located as follows:

Plane tangent to crown of face to plane of X: 0.500" Nominal

Plane of X to plane of $Y = .421'' \pm .025''$

Plane of X to plane of $Z = .738'' \pm .045''$