

engineering data service

CHARACTERISTICS

GENERAL DATA

Focusing Method												Electrostatic
Deflection Method												Electrostatic
Types*		3	AD	P1		3	ADP	2		3AD	P7	3ADP11
Fluorescence		C	re	en	Ε	Blue	-G	reen	Blı	ıe-V	Vhite	
Phosphorescence .						C	ree	n	•	Yell	ow	***************************************
Persistence		M	edi	um		L	ong	3		Lon	g	Short
Faceplate												Flat, Clear
*In addition to the	٠.,	h			 4 Z		. 4 T	מר	 	cast		

^{*}In addition to the types shown, the 3ADP- can be supplied with several other screen phosphors.

ELECTRICAL DATA

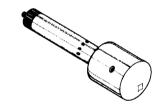
He	ater Voltage				. 6.3 Volts
Hε	ater Current			0.6	± 10% Ampere
	rect Interelectrode Capacitances				•
	•			Min.	Max.
	Cathode to All Other Electrodes			3.0	4.5 μμf
	Grid No. 1 to All Other Electrodes			5.5	$7.2~\mu\mu f$
	Between Deflecting Plates 1-2			1.4	2.0 μμf
	Between Deflecting Plates 3-4			0.9	1.5 $\mu\mu$ f
	Deflecting Plate 1 to All Other Electrodes			3.6	4.6 μμf
	Deflecting Plate 2 to All Other Electrodes			3.6	4.6 μμf
	Deflecting Plate 3 to All Other Electrodes			2.7	$3.6 \mu \mu f$
	Deflecting Plate 4 to All Other Electrodes	· .		2.7	3.6 μμf

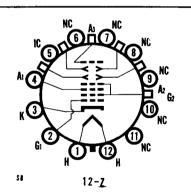
MECHANICAL DATA

Inches
Degrees
Degree
J
Degrees
Ü

QUICK REFERENCE DATA

3" Direct Viewed Round Glass Type Flat, Clear Faceplate Electrostatic Focus Electrostatic Deflection Post Deflection Acceleration Close Tolerances





SYLVANIA ELECTRONIC TUBES

A Division of Sylvania Electric Products, Inc.

PICTURE TUBE OPERATIONS SENECA FALLS, NEW YORK

Prepared and Released By The TECHNICAL PUBLICATIONS SECTION EMPORIUM, PENNSYLVANIA

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RATINGS

MAXIMUM RATINGS (Absolute Maximum Values)

Anode No. 3 Voltage		. 6600	Volts dc
Anode No. 2 Voltage ¹			Volts dc
Ratio of Anode No. 3 Voltage to Anode No. 2 Voltage			
Anode No. 1 Voltage (Focusing Electrode)		. 1100	Volts dc
Grid No. 1 Voltage			
Negative Bias Value			Volts dc
Positive Bias Value		. 0	Volts dc
Positive Peak Value		. 0	Volts
Peak Heater-Cathode Voltage			
Heater Negative with Respect to Cathode		. 200	Volts
Heater Positive with Respect to Cathode			Volts
Peak Voltage Between Anode No. 2 and Any Deflecting Plate			Volts
Anode No. 3 Voltage		<i>4</i> 000	Volts
· · · · · · · · · · · · · · · · · · ·			Volts
Anode No. 2 Voltage			
Anode No. 1 Voltage for Focus			
Grid No. 1 Voltage Required for Cutoff ²	•	. –32 to –87	VOICS
Deflecting Plates 1-2		160 to 160	Volta do/Inch
			Volts dc/Inch
Deflecting Plates 3-4			Volts dc/Inch Volts dc Max
Modulation @ Ib3 = 25 μ a ³	•	. 20	Inches Max
Light Output @ Ib3 = 25 μ a ⁴ Light Output @ Ib3 = 25 μ a ⁴	•	014	menes wax
3ADP15		20	Ft. L. Min
3ADP116			Ft. L. Min
Deflection Factor Uniformity ³			Percent Max.
Pattern Distortion ⁷	•	. 2	Percent Max.
			a 10 mm Square
Undeflected Spot Position ⁸	•	. within	a to min square
D1-D2 ± 1.315 Inches From Tube Face Center or a 7	lotal :	2 63 Inches Mir	,
D3-D4 ±0.75 Inches From Tube Face Center of a T		-	
D3-D4 ±0./3 inches from rupe race Center of a	otai.	1.) Inches Min.	

CIRCUIT VALUES

Grid No. 1 Circuit Resistance								1.5 Megohms Max.
Deflection Circuit Resistance9								1.0 Megohms Max.

NOTES:

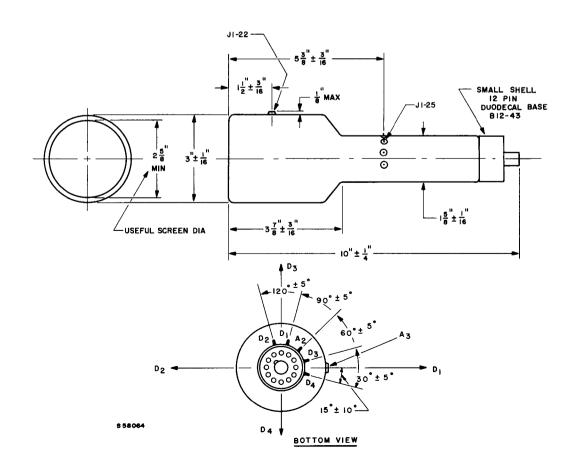
- 1. The product of the Anode No. 2 Voltage and the Average Anode No. 2 Current should be limited to 6.0 watts.
- 2. Visual extinction of undeflected focused spot.

NOTES: (Cont'd)

- 3. Measured in accordance with MIL-E-1.
- 4. Using a raster size of $2\frac{1}{4} \times 1\frac{1}{2}$ inches.
- 5. Using a No. 594 Photronic cell with Viscor filter (for eye correction).
- 6. Using a No. 594 Photronic cell without Viscor filter (without eye correction).
- 7. All edges of a raster, pattern adjusted so its widest points just touch the sides of 2.295 x 1.530 inch rectangle, will fall within the area bounded by the 2.295 x 1.530 inch rectangle and an inscribed 2.205 x 1.470 inch rectangle.
- 8. With the tube shielded and with all deflection plates connected to Anode No. 2. Limit square centered on tube face, sides parallel to deflection axes.
- 9. It is recommended that the deflecting electrode circuit resistances be approximately equal.

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.



A Technical Publication of SYLVANIA ELECTRIC PRODUCTS INC. EMPORIUM, PA.

