

engineering data service

SYLVANIA

CHARACTERISTICS

GENERAL I	JATA
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Types*	Fluorescence	Phosphorescence	Persistence			
8CP1	Green		Medium			
8CP2	Blue-Green	Green	Long			
8CP4	White		Medium			
8CP5	Blue		Veryshort			
8CP7	Blue	Yellow	Long			
8CP11	Blue	_	Short			

^{*}In addition to the types shown, the 8CP- can be supplied with several other screen phosphors.

ELECTRICAL DATA

Heater Voltage		
Heater Current	$0.6 \pm$	10% Amperes
Direct Interelectrode Capacitances (Approx.)		
Cathode to All Other Electrodes		$10~\mu\mu f$
Grid No. 1 to All Other Electrodes		$8~\mu\mu f$
Between Deflecting Plates 1-21		$4~\mu\mu f$
Between Deflecting Plates 3-41		$2~\mu\mu f$
Deflecting Plate 1 to All Other Electrodes Except	DP2	$8~\mu\mu f$
Deflecting Plate 2 to All Other Electrodes Except	DP1	$8~\mu\mu f$
Deflecting Plate 3 to All Other Electrodes Except	DP4	$6~\mu\mu f$
Deflecting Plate 4 to All Other Electrodes Except	DP3	$6 \mu \mu f$

MECHANICAL DATA

Minimum Useful Screen Diameter .					. $7\frac{1}{2}$ Inches	
Bulb Contact (Recessed Small Ball) .					. J1-22	
Base (Medium Shell Diheptal 12-Pin)) .				B12-37	
Basing					. 14J	
Base alignment D1-D2 trace aligns with	th Pi	n No.	5			
and No. 12					. ±10 Degrees	
Positive voltage on D1 deflects be	eam	toward	Pin	No.	5	
Positive voltage on D3 deflects be	eam	toward	Pin	No.	2	
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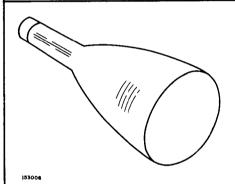
RATINGS

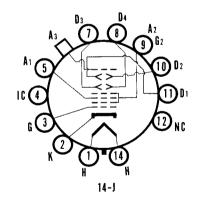
MAXIMUM RATINGS (Absolute Maximum Values)

Anode No. 3 Voltage	6,600 Volts	dc
Anode No. 2 Voltage	6,600 Volts	dc
Ratio of Anode No. 3 Voltage to Anode No. 2 Voltage .	2.3:1 Volts	dc
Anode No. 1 Voltage	2,750 Volts	dc
Grid No. 1 Voltage		
Negative Bias Value	220 Volts	dc
Positive Bias Value	0	
Positive Peak Value	2 Volts	
Peak Heater Cathode Voltage		
Heater Negative with Respect to Cathode	140 Volts	
Heater Positive with Respect to Cathode	140 Volts	
Peak Voltage Between Anode No. 2		
And Any Deflecting Plate	550 Volts	
	Anode No. 2 Voltage	Negative Bias Value ·

QUICK REFERENCE DATA

Special Purpose Tube 8" Direct Viewed Round Glass Type Electrostatic Deflection Electrostatic Focus Post Deflection Accelerator





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

NOVEMBER, 1958

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TYPICAL OPERATING CONDITIONS

Anode No. 3 Voltage			. 4,000	Volts	dc
Anode No. 2 Voltage			. 2,000	Volts	dc
Anode No. 1 Voltage			540 to 800	Volts	dc
Grid No. 1 Voltage Required for Cutoff ²			−24 to −56	Volts	dc
Deflection Factor					
Deflecting Plates 1-2			58 to 81	Volts	dc/Inch
Deflecting Plates 3-4			49 to 68	Volts	dc/Inch
CHIT MALLIEC					
CUIT VALUES					

CIRCUIT

Grid No. 1 Circuit Resistance 1.5 Megohms Max. 5.0 Megohms Max. Deflection Circuit Resistance . . .

NOTES:

- 1. Deflecting Plate 1 is Pin No. 11 Deflecting Plate 2 is Pin No. 10 Deflecting Plate 3 is Pin No. 7 Deflecting Plate 4 is Pin No. 8
- 2. Visual extinction of undeflected spot.

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.

