

CHARACTERISTICS

GENERAL DATA

Focusing Method	.	.	.	.	.	.	.	.	.	.	Electrostatic
Deflection Method	.	.	.	.	.	.	.	.	.	.	Electrostatic
Types*	Fluorescence			Phosphorescence			Persistence				
3ASP1	Green						Medium				
3ASP2	Blue-Green			Green			Long				
3ASP11	Blue						Short				
Faceplate	.	.	.	.	.	.	.	.	.	.	Flat, Clear

*In addition to the types shown, the 3ASP- can be supplied with several other screen phosphors.

ELECTRICAL DATA

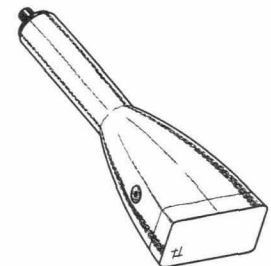
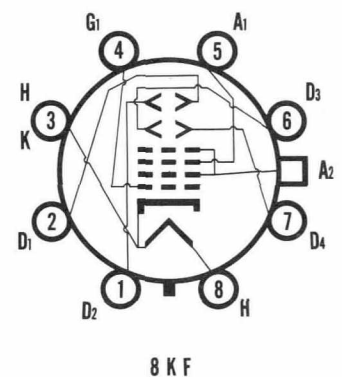
Heater Voltage	6.3 Volts
Heater Current	$0.6 \pm 10\%$ Ampere
Direct Interelectrode Capacitances (approx.)	
Grid No. 1 to All Other Electrodes	4.5 $\mu\mu\text{f}$
Between Deflection Plates 1-2	2.0 $\mu\mu\text{f}$
Between Deflection Plates 3-4	2.5 $\mu\mu\text{f}$
Deflection Plate 1 to All Other Electrodes	6.5 $\mu\mu\text{f}$
Deflection Plate 2 to All Other Electrodes	6.0 $\mu\mu\text{f}$
Deflection Plate 3 to All Other Electrodes	5.5 $\mu\mu\text{f}$
Deflection Plate 4 to All Other Electrodes	5.5 $\mu\mu\text{f}$

MECHANICAL DATA

Minimum Useful Screen Dimensions	
Horizontal	$2\frac{3}{4}$ Inches
Vertical	$1\frac{1}{8}$ Inches
Bulb	LEA 448 or Equiv.
Base	B8-218
Basing	8KF
Anode No. 2 Contact	J1-22
Base Alignment	
Pin #3 aligns with major axis of tube face within 10° , and is on same side as anode contact (J1-22)	
Trace Alignment	
Positive Voltage on D1 (Pin #2) with respect to D2, (Pin #1) deflects spot approximately toward Pin #3.	
Positive Voltage on D3 (Pin #6) with respect to D4, (Pin #7) deflects spot approximately toward Pin #5.	
Angle between D1-D2 and D3-D4 traces	90 ± 1 Degree
Angle between D1-D2 and major axis of tube face	$0 \pm 1\frac{1}{2}$ Degrees
Deflection Plates	
D1 and D2 are nearer to the tube face	
D3 and D4 are nearer the base	

QUICK REFERENCE DATA

$1\frac{1}{2}$ " x 3" Direct Viewed
Rectangular Glass Type
Clear, Pressed Faceplate
Electrostatic Deflection
Electrostatic Focus
High Deflection
Sensitivity



SYLVANIA ELECTRONIC TUBES

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File Under
SPECIAL AND GENERAL PURPOSE
CATHODE RAY TUBES

RATINGS

MAXIMUM RATINGS (Absolute Maximum Values)

Anode No. 2 Voltage	3000 Volts	dc
Anode No. 2 Input	6.0 Watts	
Anode No. 1 Voltage (Focusing Electrode)	1200 Volts	dc
Grid No. 1 Voltage		
Negative Bias Value	140 Volts	dc
Positive Bias Value	0 Volts	dc
Positive Peak Value	2 Volts	
Peak Voltage between Anode No. 2 and Any		
Deflection Plate	600 Volts	
Altitude	35,000 Feet	

TYPICAL OPERATING CONDITIONS

Anode No. 2 Voltage	2000 Volts	dc
Anode No. 1 Voltage for Focus	400 to 700 Volts	dc
Grid No. 1 Voltage Required for Cutoff ¹	-40 to -70 Volts	dc
Deflection Factors		
Deflection Plates 1-2	68 to 92 Volts	dc/Inch
Deflection Plates 3-4	28 to 38 Volts	dc/Inch
Spot Position (Undelected, Focused) ²	Within a 15 mm Square	
P1 Light Output ⁴	20 Ft. L.	Min.
Modulation ⁵	38 Volts	dc Max.
Line Width A ⁶	0.65 mm	Max.

CIRCUIT VALUES

Grid No. 1 Circuit Resistance	1.5 Megohms Max.
Deflection Circuit Resistance ³	1.0 Megohms Max.

NOTES:

1. Visual extinction of undeflected focused spot.
2. With the tube shielded and with the deflection plates connected to Anode No. 2, the square shall be centered on the tube face with its sides parallel to the deflection axis.
3. It is recommended that the deflecting electrode circuit resistances be approximately equal.
4. Raster size $1\frac{1}{8}" \times 1\frac{9}{16}"$.
5. Measured at 20 Ft. L. on a raster $1\frac{1}{8}" \times 1\frac{9}{16}"$.
6. Measured by compressed raster method starting with conditions of Note 5.

OUTLINE

