

# engineering data service

± 10 Degrees

 $90 \pm 3$  Degrees

3/4 Pound

#### **CHARACTERISTICS**

#### GENERAL DATA

Focusing Method			Electrostation	:	
Deflecting 1	Method		Electrostation	:	
Types*	Fluorescence	Phosphorescence	Persistence		
3KP1	Green		Medium		
3KP4	White		Short to Medium	l	
3 <b>K</b> P7	Blue-White	Yellow	Long		
3KP11	Blue	<del></del>	Short		
3KP16	Violet & Near Ultraviolet	<del></del>	Extremely Short		
Faceplate			Clear, Spherica	l	
*In addition to the types shown, the 3KP- can be supplied with several other screen phosphors.					
ELECTRICAL	DATA				
Heater Volt	age		6.3	Volts	
Heater Current			$0.6 \pm 10\%$	Ampere	
Direct Inter	electrode Capacii	tances (Approx.)			
Grid No. 1 to All Other Electrodes				β μμf	
Between Deflecting Plates 1-2			2.5	μμf	
Between Deflecting Plates 3-4			2.5	$\mu\mu\mathrm{f}$	
Deflecting Plate 1 to All Other Electrodes .			11	$\mu\mu f$	
Deflecting Plate 2 to All Other Electrodes .			8	μμf	
Deflect	ing Plate 3 to All	Other Electrodes .	7	μμf	
Deflect	ing Plate 4 to All	l Other Electrodes .	8	$\mu \mu { m f}$	
MECHANICA					
	Jseful Screen Dia	ameter		Inches	
			J24N		
	um Shell <b>M</b> agnal	11-Pin)	B11-66		
Basing Base Alignm			11M		
D3-D4	Trace Aligns w	ith Pin No. 1			

and Tube Axis . . . . . . . . . . . .

Beam Approx. Toward Pin No. 4

Beam Approx. Toward Pin No. 1
Angle Between D1-D2 and D3-D4 Traces . . . .

Positive Voltage on D1 Deflects

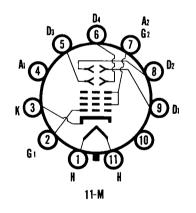
Positive Voltage on D3 Deflects

Weight (Approx.)

### QUICK REFERENCE DATA

3" Direct Viewed Round Glass Type Clear, Spherical Faceplate Electrostatic Deflection Electrostatic Focus





## 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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File Under

SPECIAL AND GENERAL PURPOSE CATHODE RAY TUBES

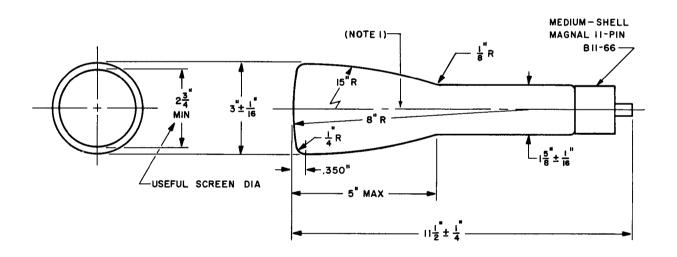
### **RATINGS**

MAXIMUM RATINGS (Absolute Maximum Values)	
Anode No. 2 Voltage <sup>1</sup>	
Negative Bias Value	
Peak Heater-Cathode Voltage  Heater Negative with Respect to Cathode	
TYPICAL OPERATING CONDITIONS	
Anode No. 2 Voltage <sup>2</sup>	
Deflection Factor  Deflecting Plates 1-2 <sup>4</sup>	'Inch
Spot Position (Focused, Undeflected) 6 Within a Circle of 7.5 mm Radius concervition with the center of the face	ntric
CIRCUIT VALUES	
Grid No. 1 Circuit Resistance	
NOTES:	
1. Anode No. 2 power input should be limited to 6 watts.	
2. Brilliance and definition decrease with decreasing Anode No. 2 Voltage. Recommended minimum for Type is 1000 volts. Recommended minimum for Types 3KP4, 3KP7, 3KP11 and 3KP16 is 1500 volts.	3 <b>KP</b> 1
3. Visual extinction of undeflected focused spot.	
4. Deflecting Plates D1-D2 are nearer the screen.	
5. Deflecting Plates D3-D4 are nearer the base.	
6. With tube shielded and all deflection plates connected to Anode No. 2.	

7. It is recommended that deflecting electrode circuit resistances be approximately equal.



### **OUTLINE**



S 58060

### DIAGRAM NOTE:

1. Centerline of bulb will not deviate more than  $\pm 2$  degrees in any direction from perpendicular erected at center of bottom of base.