

# engineering data service

SYLVANIA 5UP1 5UP7 5UP11

#### **CHARACTERISTICS**

GENERAL DATA
Focusing Method Electrostatic Deflection Method Electrostatic Phosphor Pl Fluorescence Green Persistence Medium Faceplate Clear
ELECTRICAL DATA
Heater Voltage
Grid to All Other Electrodes 8.0 μμf Between Deflecting Plates 1-2 2.5 μμf
Between Deflecting Plates 3-4 2.5 μμf Deflecting Plate 1 <sup>1</sup> to All Other Electrodes 11.0 μμf
Deflecting Plate 21 to All Other Electrodes 8.0 μμf Deflecting Plate 31 to All Other Electrodes 7.0 μμf Deflecting Plate 41 to All Other Electrodes 8.0 μμf
MECHANICAL DATA
Minimum Useful Screen Diameter
MAXIMUM RATINGS (Absolute Maximum Values)
Anode No. 2 Voltage
Negative Bias Value
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 Deflection Plate

#### TYPICAL OPERATING CONDITIONS

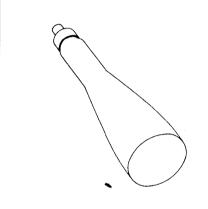
								2000	Volts	dc
ocu	S							. 340 to 640	Volts	dc
qui	red	l fo	r C	uto	off3			90	Volts	dc
•										
								56 to 77	Volts	dc/Inch
								46 to 62		
	ocu qui	ocus equired	ocus . equired fo	ocus equired for C	ocus equired for Cuto	ocus	ocus	ocus	ocus	

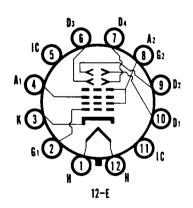
### **CIRCUIT VALUES**

Grid Circuit Resistance Deflection Circuit Resistance					
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## QUICK REFERENCE DATA

Special Purpose Tube 5" Direct Viewed Round Glass Type Electrostatic Deflection Electrostatic Focus





SYLVANIA ELECTRIC PRODUCTS INC.

TELEVISION PICTURE TUBE DIVISION

SENECA FALLS, NEW YORK

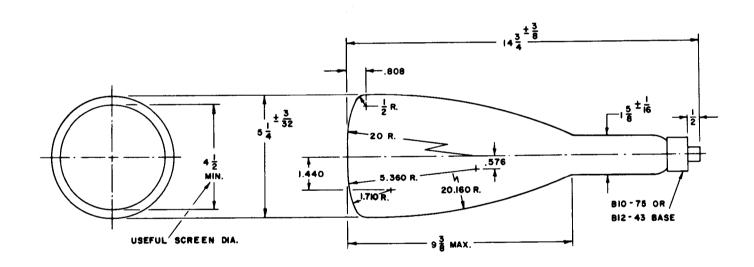
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#### NOTES:

- 1. Positive voltage on Pin No. 10 will move spot approximately in direction of Pin No. 4. Positive voltage on Pin No. 6 will move spot approximately in direction of Pin No. 1.
- 2. Brilliance and definition decrease with decreasing Anode No. 2 Voltage. In general, Anode No. 2 Voltage should not be less than 1000 volts for the Type 5UP1 and not less than 1500 volts for the Types 5UP7 and 5UP11.
- 3. Visual extinction of undeflected focused spot.
- 4. Angle between trace produced by plates D1-D2 and the plane through the tube axis and Pin No. 4 does not exceed 10°.
- 5. Angle between D1-D2 trace and D3-D4 trace is  $90^{\circ} \pm 30$ .
- 6. Deflecting Plates 1-2 are nearer the screen.
- 7. Deflecting Plates 3-4 are nearer the base.



# **5UP7**

The Sylvania Type 5UP7 is identical to the Type 5UP1 except it has a blue-white fluorescence, yellow phosphorescence, long persistence phosphor.

# **5UP11**

The Sylvania Type 5UP11 is identical to the Type 5UP1 except it has blue phosphor and a short persistence.