

DESCRIPTION

Sylvania 3BEP- is a compact, rectangular direct-view oscilloscope tube designed primarily for use in airborne equipment. It features a high quality, nearly flat pressed faceplate, and employs electrostatic focus and deflection. Its encapsulated leads permit operation at high altitude and it will withstand a wide range of temperatures.

CHARACTERISTICS

GENERAL DATA

Focusing Method	Electrostatic
Deflecting Method	Electrostatic
Types*	Fluorescence Phosphorescence Persistence
P1	Green Medium
Faceplate	Clear, Pressed Glass

* In addition to the type shown, the 3BEP- 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.)	
Cathode to All Other Electrodes	5 μf
Grid No. 1 to All Other Electrodes	8 μf
Between Deflecting Plates 1-2	7 μf
Between Deflecting Plates 3-4	6 μf
Deflecting Plate 1 to All	9 μf
Deflecting Plate 2 to All	8 μf
Deflecting Plate 3 to All	7 μf
Deflecting Plate 4 to All	8 μf

MECHANICAL DATA

Minimum Useful Screen Dimensions (Maximum Assured)	
Horizontal	2 $\frac{3}{4}$ Inches
Vertical	1 $\frac{1}{8}$ Inches
Bulb	LEA 417 or Equivalent
Base	Encapsulated, Color Coded Leads
Trace Alignment with Bulb (See Diagram)	
D1-D2 Trace aligns with long axis of tube face ¹	± 1.5 Degrees
Angle between D1-D2 trace and D3-D4 trace	90 ± 1 Degrees
Weight (Approx.)	$\frac{3}{4}$ Pounds

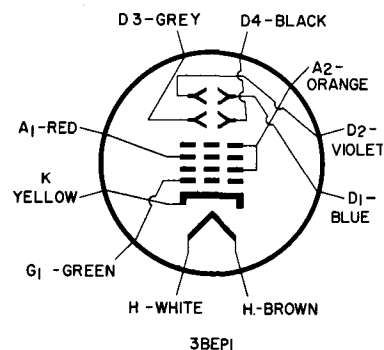
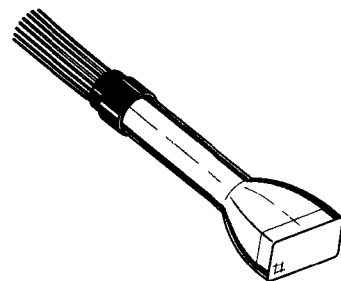
RATINGS

MAXIMUM RATINGS (Absolute Maximum Values)

Anode No. 2 Voltage	3000 Volts	dc
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 Heater-Cathode Voltage		
Heater Negative with Respect to Cathode.	140 Volts	
Heater Positive with Respect to Cathode.	140 Volts	
Altitude	70,000 Feet	
Operating Temperature Range	-65 to +85 °C	

QUICK REFERENCE DATA

Oscilloscope Tube
1½" x 3" Direct Viewed
Rectangular Glass Type
Electrostatic Deflection
Electrostatic Focus
High Quality, Clear,
Pressed Faceplate
Encapsulated Base with
color coded leads.



SYLVANIA ELECTRONIC TUBES

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File Under
SPECIAL AND GENERAL PURPOSE
CATHODE RAY TUBES

