

DIAMETER 2 1/4" NOMINAL

3EB1

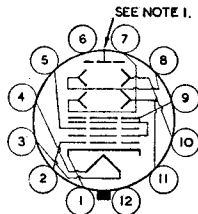
3EB1

Oscilloscope Tube

ELECTROSTATIC FOCUS. ELECTROSTATIC DEFLECTION

GENERAL :	DATA
Heater: Voltage	4.0 a.c. or d.c. volts.
Current	1.0 amp.
Direct Inter-electrode Capacitances.	
Modulator to all other electrodes	13 μ f.
Each X Plate to all other electrodes	21 μ f.
Each Y Plate to all other electrodes	21 μ f.
One X to one Y Deflector Plate	4 μ f.
Cathode to all other electrodes	12 μ f.
Screen :	
Fluorescence	Blue.
Persistence	Very Short.
	(10 μ sec. max. for 1% initial brightness).
Focusing Method	Electrostatic.
Deflecting Method	Electrostatic.
Overall Length	255 \pm 5 mm.
Greatest Diameter of Bulb	70 mm.
Minimum Useful Screen Diameter	55 mm.
Mounting Position	Any.
Anode Cap	Recessed Small Ball.
Base	B.12.B.

- Pin 1—Cathode.
- Pin 2—Modulator.
- Pin 3—Heater.
- Pin 4—Heater.
- Pin 5—Anode 2.
- Pin 6—Pin omitted.
- Pin 7—Y2.



- Pin 8—X2.
- Pin 9—Anode 1, Anode 3 and Internal Conductive coating.
- Pin 10—X1.
- Pin 11—Y1.
- Pin 12—Pin omitted.
- Cap—Anode 4 P.D.A.

Typical Operating Conditions :

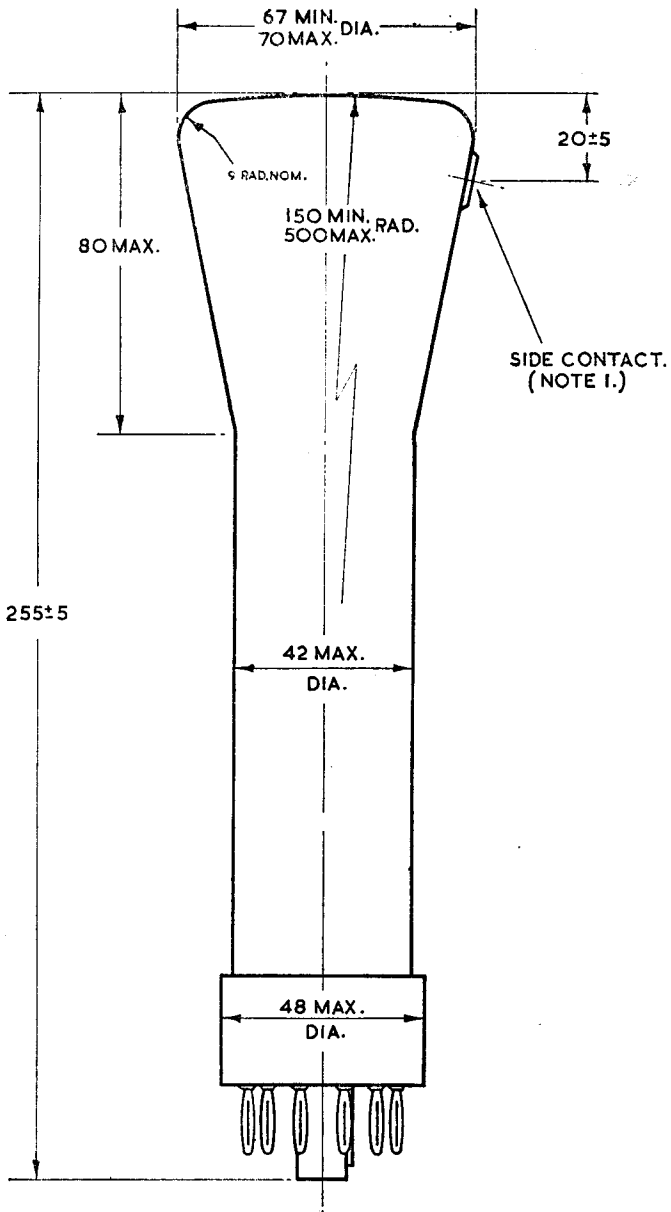
Anode 1 (2500v. max.)	2000 volts.	1300 volts.
Anode 2	130 volts.	100 volts.
Anode 3 (2500v. max.)	2000 volts.	1300 volts.
Anode 4 Post Deflector Accelerator (5KV max.)	4000 volts.	2500 volts.

Modulator volts for cut-off
 -65 to -145 volts. -45 to -100 volts.

Deflection Sensitivity :	mm/volt.	mm/volt.
X Plate	0.125	0.190
Y Plate	0.145	0.220

Note 2. The angle between the trace produced by X1 and X2 and the trace produced by Y1 and Y2 is 90° \pm 3°.

Note 3. The undeflected focused spot will fall within a circle having a 7 mm. radius concentric with the centre of the tube face.



Note 1. When viewing the screen with the tube positioned such that the base spigot is uppermost, a positive voltage applied to the terminal X1 will deflect the spot to the left and a positive voltage applied to the terminal Y1 will deflect the spot upwards.