

DIAMETER $3\frac{1}{8}$ " NOMINAL

90EB4P

Oscilloscope Tube

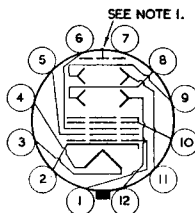
ELECTROSTATIC FOCUS. ELECTROSTATIC DEFLECTION

DATA

GENERAL :

Heater: Voltage	4.0	a.c. or d.c. volts.
Current	1.0	amp.
Direct Inter-electrode Capacitances.		
Modulator to all other electrodes	25 μ f.	
Each X Plate to all other electrodes	25 μ f.	
Each Y Plate to all other electrodes	25 μ f.	
One X to one Y Deflector Plate	6 μ f.	
Cathode to all other electrodes	15 μ f.	
Screen :		
Fluorescence	Blue.	
Persistence	Very Short.	
	(10 μ sec. max. for 1% initial brightness).	
Focusing Method	Electrostatic.	
Deflecting Method	Electrostatic.	
Overall Length	332 $\pm$ 8 mm.	
Greatest Diameter of Bulb	92 mm.	
Minimum Useful Screen Diameter	70 mm.	
Mounting Position	Any.	
Anode Cap	Recessed Small Ball.	
Base	B.12.D.	

- Pin 1—Modulator.
 Pin 2—Cathode.
 Pin 3—Heater.
 Pin 4—Heater.
 Pin 5—Anode 1.
 Pin 6—Anode 2.
 Pin 7—No connection.



- Pin 8—Y2.
 Pin 9—X2.
 Pin 10—Anode 3 and Internal Conductive coating.
 Pin 11—X1.
 Pin 12—Y1.
 Cap—Anode 4 P.D.A.

Typical Operating Conditions :

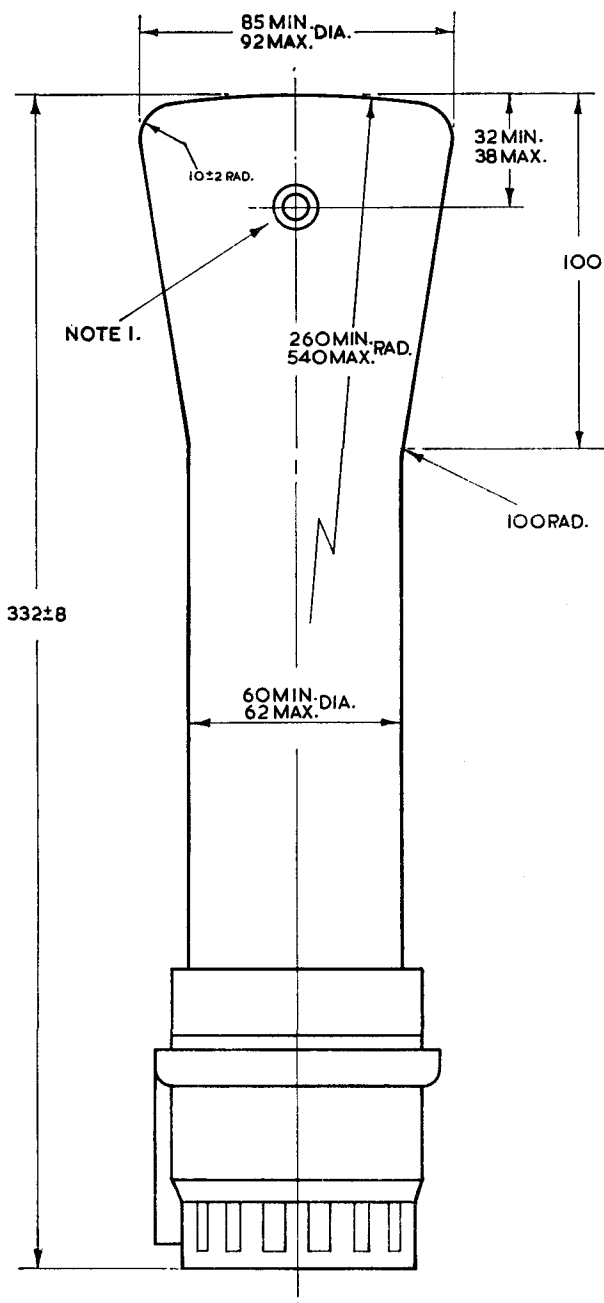
Anode 1	2000 volts.
Anode 2	380 volts.
Anode 3 (4000v. max.)	2000 volts.
Anode 4 Post Deflector Accelerator (6000v. max.)	4000 volts.
Modulator volts for cut-off	-40 to -80 volts.

Deflection Sensitivity :

	mm/volt.
X Plate	0.140
Y Plate	0.320

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

Note 3. The undeflected focused spot will fall within a circle having a 6 mm. radius concentric with the centre of the tube face.



ALL SIZES IN MILLIMETRES.

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.