

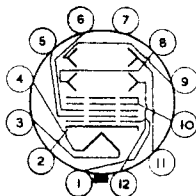
90EY4

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	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	Yellow.
Afterglow	Yellow.
Persistence of Afterglow	Long.
	(1 sec. min./10 sec. max. for 1% initial brightness).
Focusing Method	Electrostatic.
Deflecting Method	Electrostatic.
Overall Length	332 \pm 8 mm.
Greatest Diameter of Bulb	90 mm.
Minimum Useful Screen Diameter	70 mm.
Mounting Position	Any.
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.

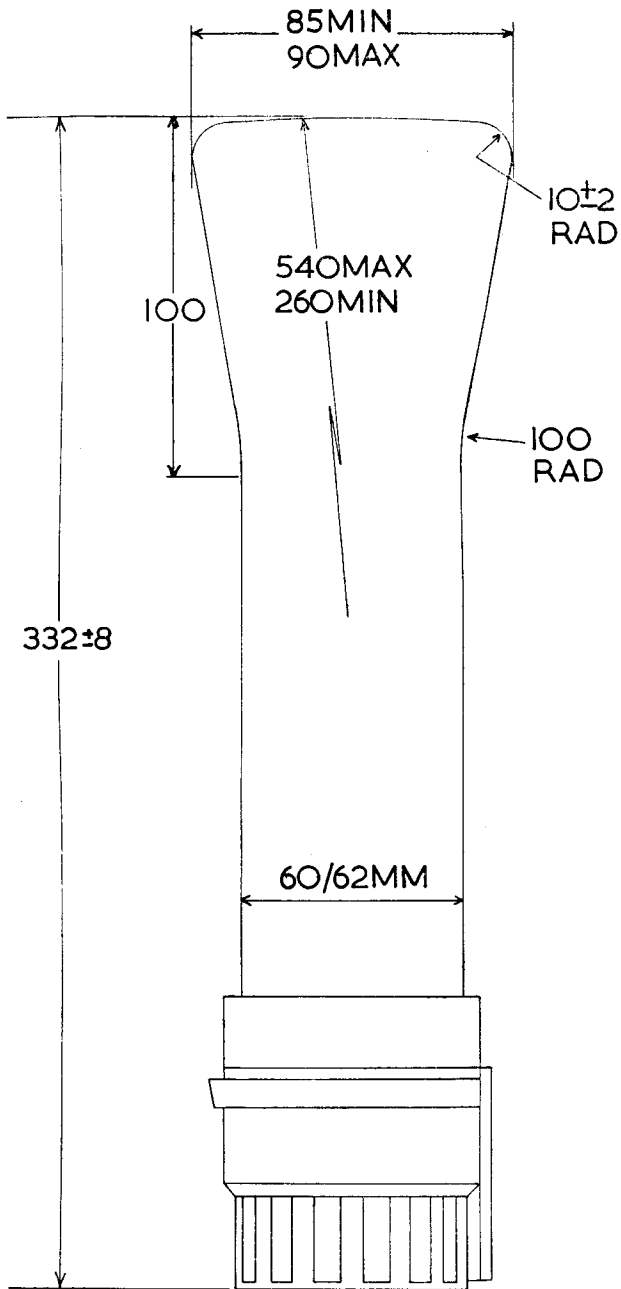
Typical Operating Conditions :

Anode 1	2000 volts.	2000 volts.
Anode 2	700 volts.	350 volts.
Anode 3 (5000v. max.)	4000 volts.	2000 volts.
Modulator volts for cut-off	-40 to -80 volts.	-40 to -80 volts.

Deflection Sensitivity :	mm/volt.	mm/volt.
X Plate	0.085	0.170
Y Plate	0.190	0.380

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.