

DIAMETER 3½" NOMINAL

90EY4F**Oscilloscope Tube****FLAT FACED BULB**

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 mf.

Each X Plate to all other electrodes 25 μ mf.

Each Y Plate to all other electrodes 25 μ mf.

One X to one Y Deflector Plate 6 μ mf.

Cathode to all other electrodes 15 μ mf.

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 88.5 mm.

Minimum Useful Screen Diameter 75 mm.

Mounting Position Any.

Base B.12.D.

Pin 1—Modulator.

Pin 2—Cathode.

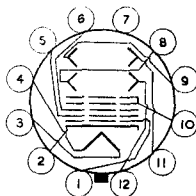
Pin 3—Heater.

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.

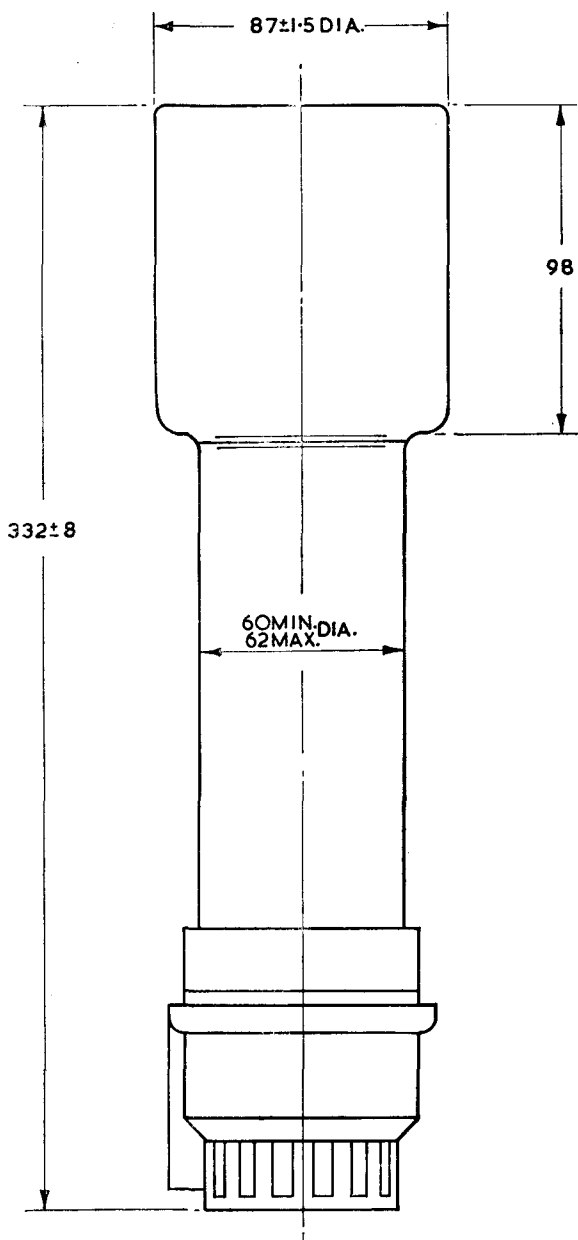
Deflection Sensitivity : mm/volt. mm/volt.

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.