

3EW1**3EW1****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 13 μ mf.

Each X Plate to all other electrodes 21 μ mf.

Each Y Plate to all other electrodes 21 μ mf.

One X to one Y Deflector Plate 4 μ mf.

Cathode to all other electrodes 12 μ mf.

Screen:

Fluorescence White.

Persistence Short.

(5m sec. min./25m 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.

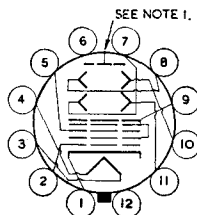
Pin 3—Heater.

Pin 4—Heater.

Pin 5—Anode 2.

Pin 6—Pin omitted.

Pin 7—Y2.



SEE NOTE 1.

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.

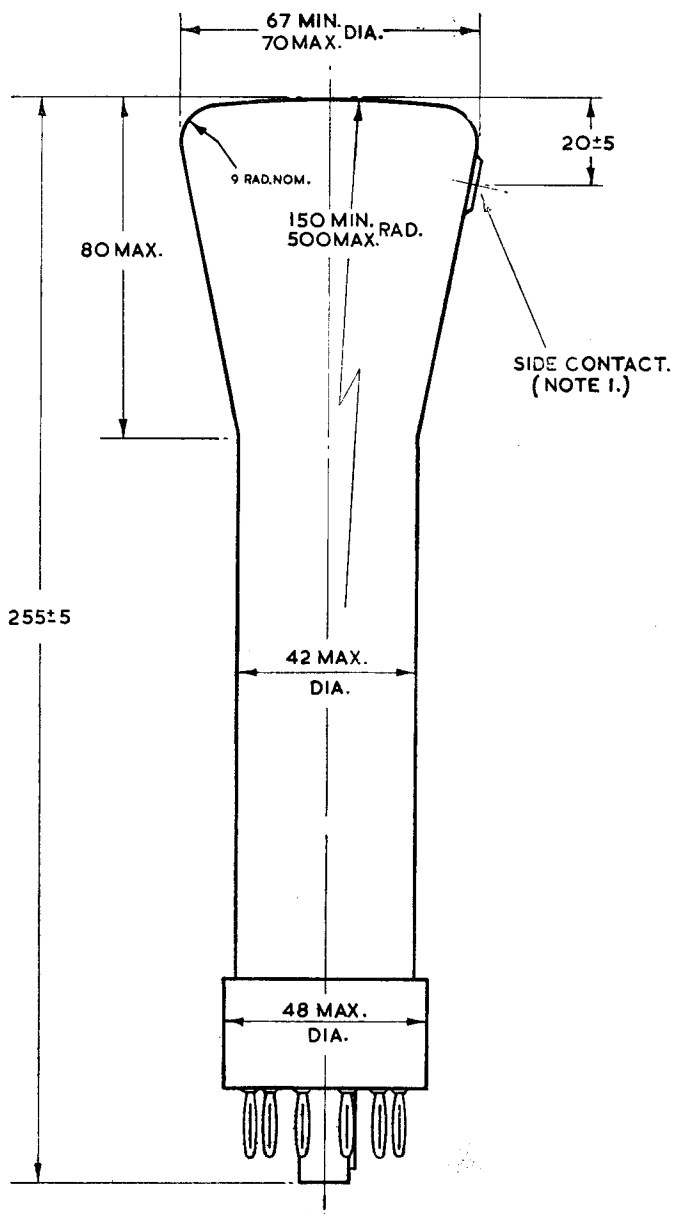
mm/volt.

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 $90^\circ \pm 3^\circ$.

Note 3. The undeflected focused spot will fall within a circle having a 7 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.