

3EW1**Oscilloscope Tube**

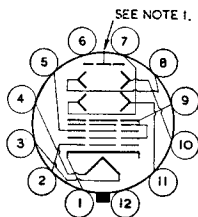
ELECTROSTATIC FOCUS. ELECTROSTATIC DEFLECTION

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 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	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.



- 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 :

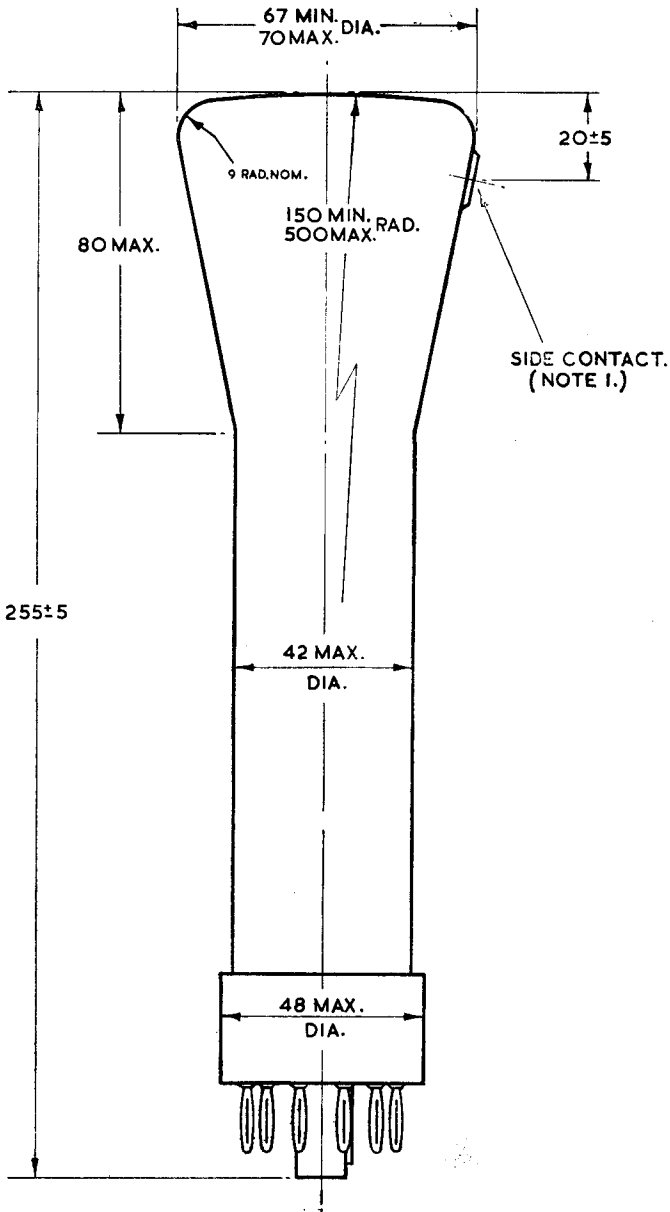
Anode 1 (2500v. max.)	2000 volts.	1300 volts.
Anode 2	130 volts.	100 volts.
Anode 3 (2500v. max.)	2000 volts.	1300 volts.
Anode 4 Post Deflector Accelerator (5KV max.)	4000 volts.	2500 volts.
Modulator volts for cut-off	-65 to -145 volts.	-45 to -100 volts.

Deflection Sensitivity :

X Plate	mm/volt.	mm/volt.
Y Plate	0.125	0.190
	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.