

DIAMETER 2 $\frac{1}{4}$ " NOMINAL**3EW1****3EW1**

Oscilloscope Tube

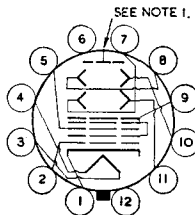
ELECTROSTATIC FOCUS. ELECTROSTATIC DEFLECTION

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.



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

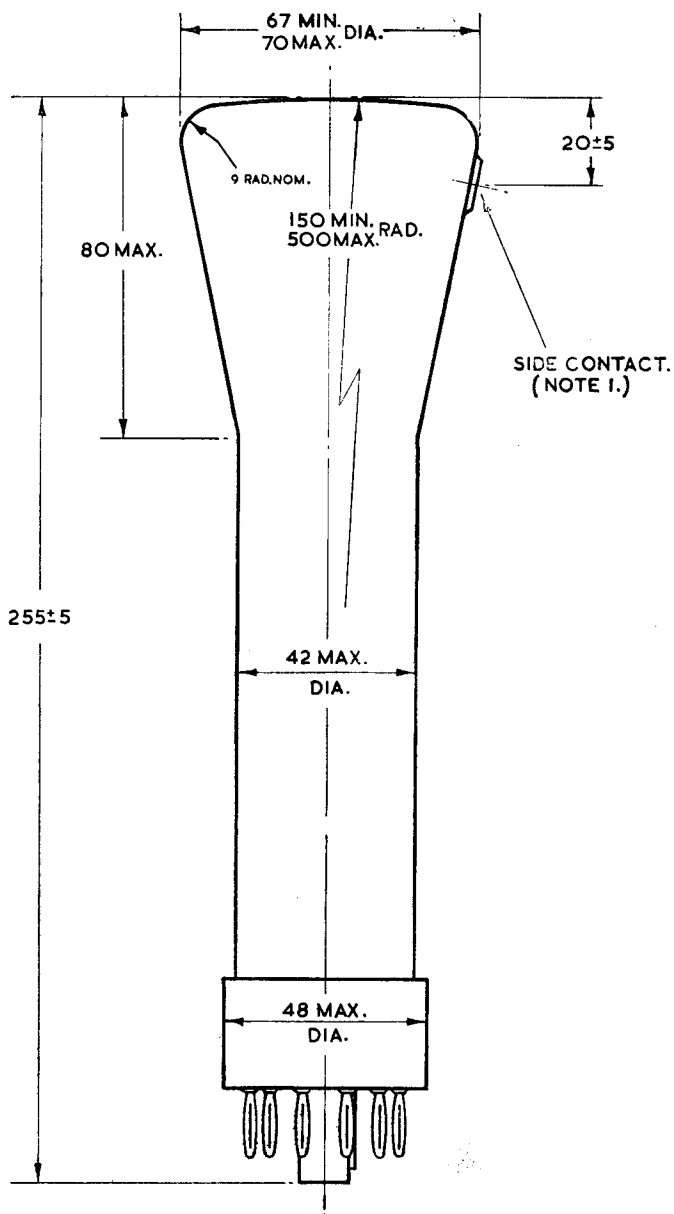
-65 to -145 volts.	-45 to -100 volts.
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Deflection Sensitivity :

	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.