

3EY1**3EY1**

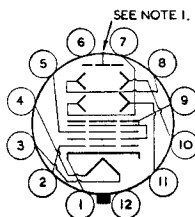
Oscilloscope Tube

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	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	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

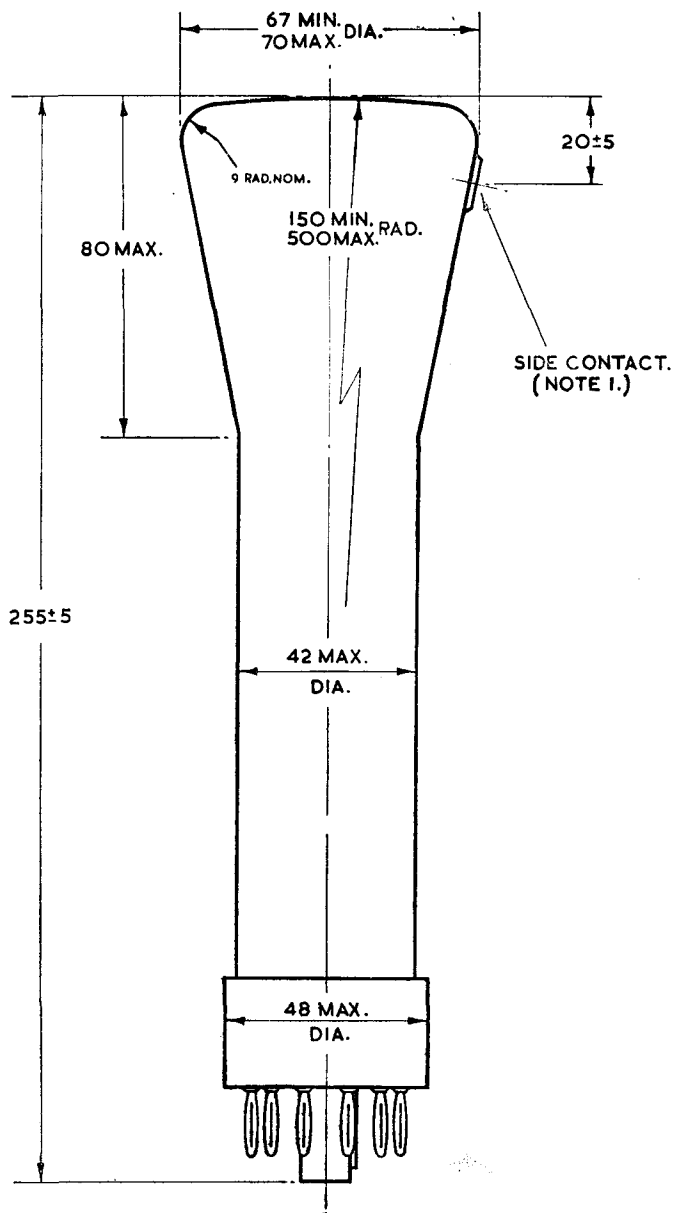
-65 to -145 volts. -45 to -100 volts.

Deflection Sensitivity :

	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.