

6ED4**6ED4**

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	. . .	25 μ f.
Each X Plate to all other electrodes	. . .	25 μ f.
Each Y Plate to all other electrodes	. . .	25 μ f.
One X to one Y Deflector Plate	. . .	6 μ f.
Cathode to all other electrodes	. . .	15 μ f.
Screen :		
Fluorescence	. . .	Blue.
Afterglow	. . .	Yellow.
Persistence of Afterglow	. . .	Long.
	(10 sec. min./100 sec. max. for 1% initial brightness).	
Focusing Method	. . .	Electrostatic.
Deflecting Method	. . .	Electrostatic.
Overall Length	. . .	421 $\pm$ 10 mm.
Greatest Diameter of Bulb	. . .	160 mm.
Minimum Useful Screen Diameter	. . .	130 mm.
Mounting Position	. . .	Any.
Base	. . .	B.12.D.

Pin 1—Modulator.

Pin 2—Cathode.

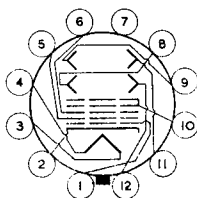
Pin 3—Heater.

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 :

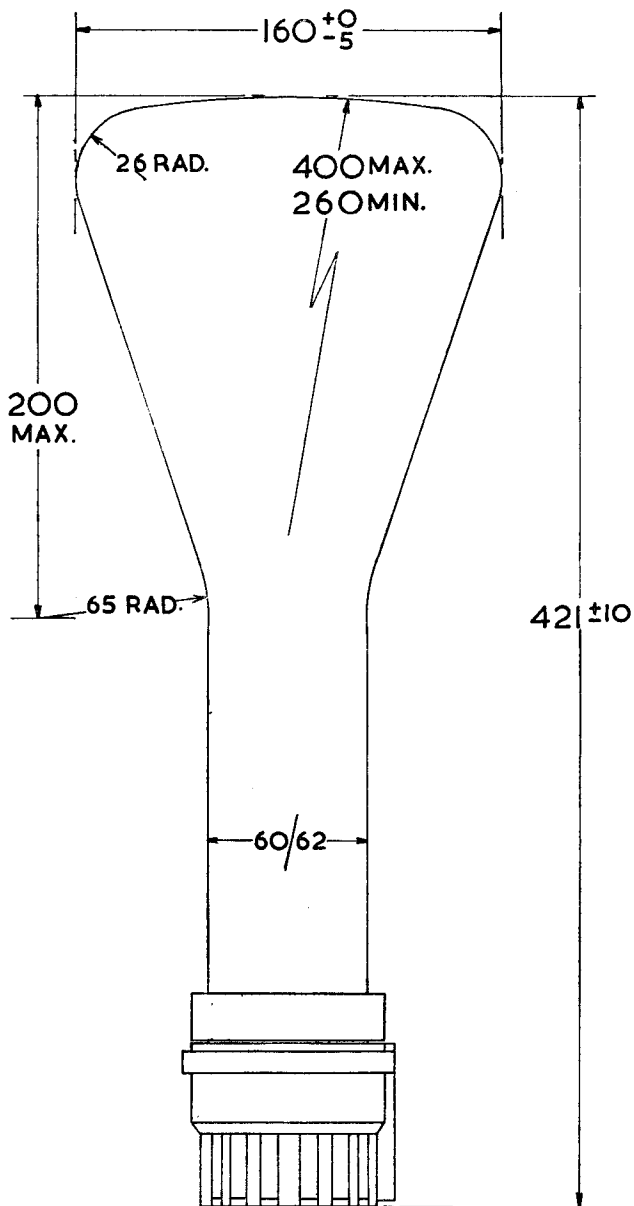
Anode 1	. . . 2000 volts.	2000 volts.
Anode 2	. . . 700 volts.	400 volts.
Anode 3 (5000v. max.)	. . . 4000 volts.	2000 volts.
Modulator volts for cut-off		
	-40 to -80 volts.	-40 to -80 volts.

Deflection Sensitivity :

	mm/volt.	mm/volt.
X Plate	. . . 0.160	0.320
Y Plate	. . . 0.295	0.590

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 10 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.