

6EB5

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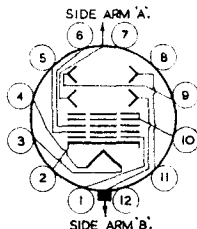
Oscilloscope Tube

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	$\mu\text{f.}$	
Each X Plate to all other electrodes	20	$\mu\text{f.}$	
Each Y Plate to all other electrodes	13	$\mu\text{f.}$	
One X to one Y Deflector Plate	2.5	$\mu\text{f.}$	
Cathode to all other electrodes	25	$\mu\text{f.}$	
Screen :			
Fluorescence	Blue.		
Persistence	Very Short.		
(10 μ 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—No connection.



Pin 9—X2.
 Pin 10—Anode 3 and
 Internal Conductive
 coating.
 Pin 11—X1.
 Pin 12—No connection
 Side Arm 'A'—Y2.
 Side Arm 'B'—Y1.

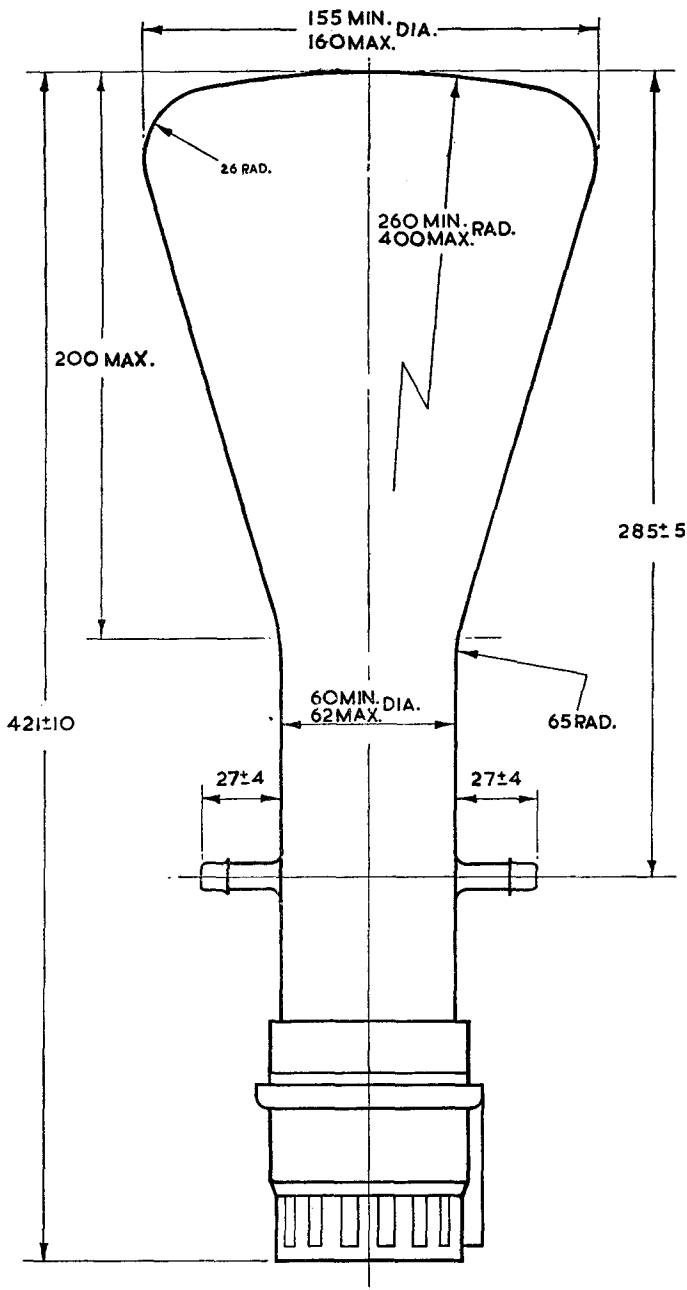
Typical Operating Conditions :

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.