## DIAMETER 31 NOMINAL

## 90E D4

OFD<sub>#</sub>

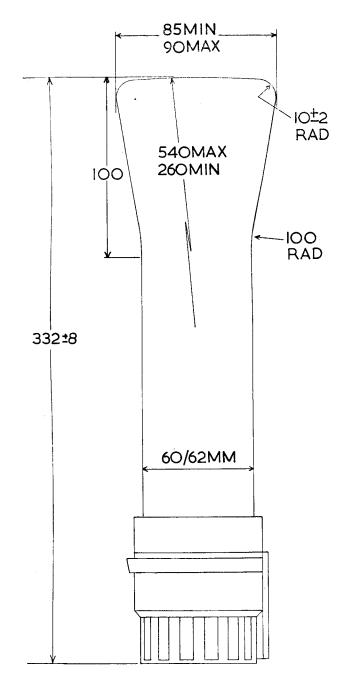
## Oscilloscope Tube

ELECTROSTATIC FOCUS. ELECTROSTATIC DEFLECTION

## DATA

	]	DATA				
GENERAL:						
Heater: Voltage .		4.0				a.c. or d.c. volts.
Current .		1.0				amp.
Direct Inter-electrode C	apacita	nces.				<b>F</b>
Modulator to all other	electrod	les				25μμf.
Each X Plate to all other	er electr	odes				25μμf.
Each Y Plate to all other	er electr	odes				25uuf.
One X to one Y Deflect Cathode to all other ele	tor Plate	е.				6μμf.
	ctrodes					15μμf.
Screen:						. ,
Fluorescence						Blue.
Afterglow Persistence of Afterglow					•	Yellow
Persistence of Afterglow	<i>'</i> .					Long.
(10 sec. m	ın./100 s	sec. ma	ıx. to	r 1%	in	itial brightness).
Focusing Method Deflecting Method Overall Length						Electrostatic.
Deflecting Method .						Electrostatic.
Overall Length Greatest Diameter of B Minimum Useful Screen						334 ± 6 mm.
Greatest Diameter of B	ulb .					90 mm.
Minimum Useful Screen	n Diame	eter				70 mm.
woulding Position						Any.
Base		•				B.12.D.
<b></b>						
Pin 1—Modulator.	(	6 (7)			Pir	n 8—Y2.
Pin 2—Cathode.	(5)		8		Pir	1 9—X2.
Pin 3—Heater.		~~~~	7			10-Anode 3 and
Pin 4—Heater.		==4	<b>(e)</b>			ernal Conductive
Pin 5—Anode 1.	3/V		(10)			iting.
Pin 6—Anode 2.	2	<u> </u>	5			11—X1.
Pin 7—No connection.	~ ~ ~	(2)	<u>"</u>		Pir	ı 12—Y1.
The Free Connection.						
Typical Operating Condi	itions :					
Anode 1		2000	volte			2000 volts.
A = 1 . A		700				350 volts.
Anode 3 (5000v. max.)						2000 volts.
Modulator volts for cut	off .	4000	voits.			2000 voits.
Modulator voits for cut		o –80 ·	volte			-40 to -80 volts.
	<del>-4</del> 0 t	U -0U	voits.	1		-40 to -ou volts.
<b>Deflection Sensitivity:</b>		mm	/volt.			mm/volt.
X Plate		0.0	085			0.170
Y Plate			190			0.380
•	•	٠.				0.500

- 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 6 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.