## DIAMETER 31/ NOMINAL

## **90EG4**

OFC\*

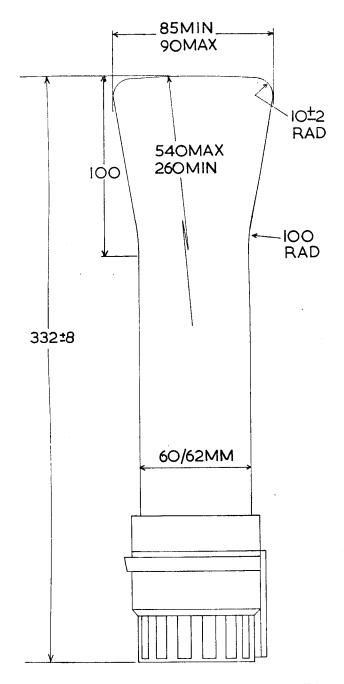
## Oscilloscope Tube

ELECTROSTATIC FOCUS. ELECTROSTATIC DEFLECTION

## DATA

	$\mathbf{D}$	ATA			
GENERAL:					
Heater: Voltage .		4.0 .			a.c. or d.c. volts.
Current .					amp.
Direct Inter-electrode (	Capacitan	ices.			F·
					25µµf.
Modulator to all other Each X Plate to all oth	er electro	odes .	·		25µµf.
Each Y Plate to all oth	er electro	odes .		_	25µµf.
One X to one Y Deflec	tor Plate				6μμf.
Cathode to all other ele	ectrodes				15μμf.
Screen:					• •
Fluorescence Persistence of Afterglov					Green.
Persistence of Afterglov	v .			. :	Short.
(10m sec. m	in /100m	sec may	for	1% i:	nitial brightness)
Focusing Method Deflecting Method . Overall Length . Greatest Diameter of B					Electrostatic.
Deflecting Method .					Electrostatic.
Overall Length .				. :	$332 \pm 8 \text{ mm}.$
Greatest Diameter of B	ulb .				90 mm.
Minimum Useful Screet	i Diamet	ter .		. 7	70 mm.
Mounting Position					Any.
Mounting Position 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.	6 4 3 2 1	8 9		Pin Pin Inte coat Pin	8—Y2. 9—X2. 10—Anode 3 and rnal Conductive ing. 11—X1. 12—Y1.
Typical Operating Conditions:					
Anode 1		2000 volts	3.		2000 volts.
		700 volts	š.		350 volts.
Anode 2 Anode 3 (5000v. max.)		4000 volts	š.		2000 volts.
Modulator volts for cut	-off				
	–40 to	-80 volts	S.	-	40 to -80 volts.
<b>Deflection Sensitivity:</b>		mm/volt	t <b>.</b>		mm/volt.
X Plate		0.085			0.170
Y Plate		0.190			0.380

- 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.