

**3EG3P****3EG3P****Oscilloscope Tube**

ELECTROSTATIC FOCUS. ELECTROSTATIC DEFLECTION.

## DATA

**GENERAL :**

Heater: Voltage . . . . .	6.3 . . . . .	a.c. or d.c. volts.
Current . . . . .	0.6 . . . . .	amp.
Direct Inter-electrode Capacitances:		
Modulator to all other electrodes . . . . .	10.5 $\mu$ mf.	
Each X Plate to all other electrodes . . . . .	11.0 $\mu$ mf.	
Each Y Plate to all other electrodes . . . . .	9.0 $\mu$ mf.	
Deflector Plates X1 to X2 . . . . .	4.0 $\mu$ mf.	
Deflector Plates Y1 to Y2 . . . . .	3.5 $\mu$ mf.	
Screen:		
Fluorescence . . . . .	Green.	
Persistence . . . . .	Short	
(10m. sec. min./100m. sec. max. for 1% initial brightness).		
Focussing Method . . . . .	Electrostatic.	
Deflecting Method . . . . .	Electrostatic.	
Overall Length . . . . .	254 mm. $\pm$ 6 mm.	
Greatest Diameter of Bulb . . . . .	77.8mm.	
Minimum Useful Screen Diameter . . . . .	69.0 mm.	
Mounting Position . . . . .	Any.	
Anode Cap . . . . .	Recessed Ball BSS448/CT7.	
Base . . . . .	B14A.	

Pin 1—Heater.

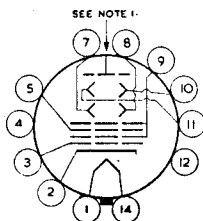
Pin 2—Cathode.

Pin 3—Modulator.

Pin 4—No connection.

Pin 5—Anode 2.

Pin 7—Y1.



Pin 8—Y2.

Pin 9—Anode 1 and  
Anode 3.

Pin 10—X2.

Pin 11—X1.

Pin 12—No connection.

Pin 14—Heater.

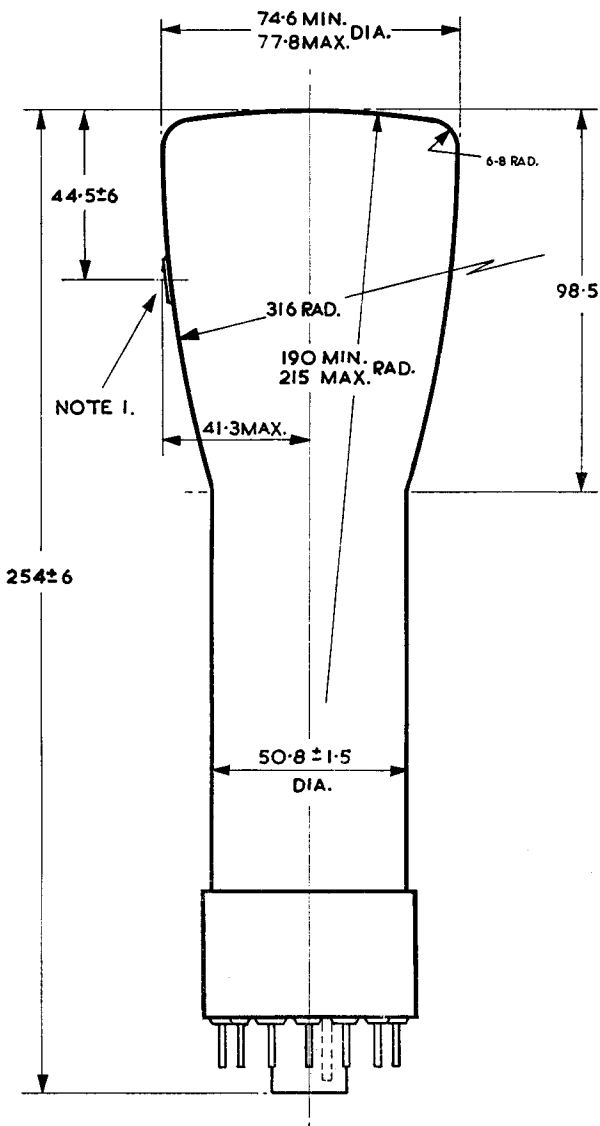
Cap—Anode 4 P.D.A.

**Typical Operating Conditions :**

Anode 1 and Anode 3 (2500 volts max.) . . . . .	1500 volts.
Anode 2 . . . . .	350/500 volts.
Anode 4 P.D.A. (5000 volts max.) . . . . .	3000 volts.
Modulator volts for cut-off . . . . .	-65 volts max.

**Deflection Sensitivity :**

X Plate . . . . .	mm./volt. 0.15 to 0.2
Y Plate . . . . .	0.2 to 0.27



ALL SIZES IN MILLIMETRES.

- Note 1.** The angle between the trace produced by X1, X2 and a plane through the tube axis, Pin 5 and the P.D.A. Cap may vary by an angular tolerance of  $10^\circ$ . The P.D.A. Cap is on the same side of the tube as Pin 5.
- 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 m.m. radius concentric with the centre of the tube face.
- Note 4.** When viewing the screen with the tube positioned such that Pin No. 5 is on the left, 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.