

**5E02P****5E02P****Oscilloscope Tube**

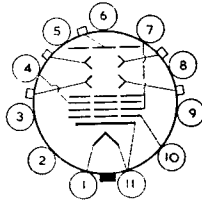
ELECTROSTATIC FOCUS. ELECTROSTATIC DEFLECTION.

## 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 . . . . .	12.0 $\mu$ mf.	
Each X Plate to all other electrodes . . . . .	5.0 $\mu$ mf.	
Each Y Plate to all other electrodes . . . . .	5.0 $\mu$ mf.	
Deflector Plates X1 to X2 . . . . .	2.3 $\mu$ mf.	
Deflector Plates Y1 to Y2 . . . . .	2.3 $\mu$ mf.	
Screen:		
Fluorescence . . . . .	Orange.	
Afterglow . . . . .	Orange.	
Persistence of Afterglow . . . . .	Long	
(10 sec. min./100 sec. max. for 1% initial brightness).		
Focussing Method . . . . .	Electrostatic.	
Deflecting Method . . . . .	Electrostatic.	
Overall Length . . . . .	425 $\pm$ 9 mm.	
Greatest Diameter of Bulb . . . . .	136.5 mm.	
Minimum Useful Screen Diameter . . . . .	114 mm.	
Mounting Position . . . . .	Any.	
Anode Cap . . . . .	English BSS448/CT2.	
Base . . . . .	11 Pin Magnal.	

Pin 1—Heater.  
 Pin 2—No connection.  
 Pin 3—No connection.  
 Pin 4—Anode 2.  
 Pin 5—No connection.  
 Pin 6—No connection.



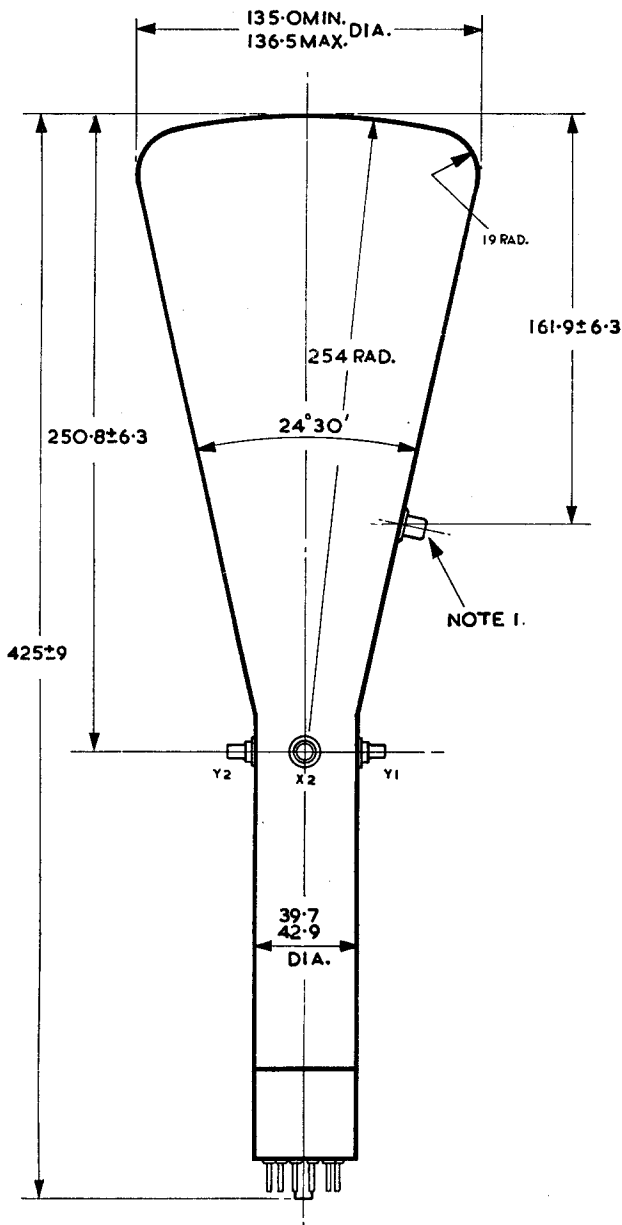
Pin 7—Anode 1 and Anode 3.  
 Pin 8—No connection.  
 Pin 9—No connection.  
 Pin 10—Modulator.  
 Pin 11—Heater and Cathode.  
 Cap—Anode 4 P.D.A.  
 BSS448/CT1 caps on neck connect to X1, X2, Y1 and Y2.

**Typical Operating Conditions :**

Anode 1 and 3 (2500 volts max.) . . . . .	2000 volts.
Anode 2 . . . . .	450/570 volts.
Anode 4 (5000 volts max.) . . . . .	4000 volts.
Modulator volts for cut-off . . . . .	-105 volts max.

**Deflection Sensitivity :**

	mm./volt.
X Plate . . . . .	0.22 to 0.33.
Y Plate . . . . .	0.22 to 0.33.



ALL SIZES IN MILLIMETRES.

- Note 1.** The angle between the trace produced by Y1, Y2 and a plane through the tube axis, spigot key and the P.D.A. Cap, may vary by an angular tolerance of  $10^\circ$ . The spigot key is on the same side of the tubes as the P.D.A. Cap.
- 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 the spigot key 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.