

3EB3P**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 μ mf.	
Each X Plate to all other electrodes	11.0 μ mf.	
Each Y Plate to all other electrodes	9.0 μ mf.	
Deflector Plates X1 to X2	4.0 μ mf.	
Deflector Plates Y1 to Y2	3.5 μ mf.	
Screen:		
Fluorescence	Blue.	
Persistence	Very Short	
	(10 μ sec. max. for 1% of initial brightness).	
Focussing Method	Electrostatic.	
Deflecting Method	Electrostatic.	
Overall Length	254 \pm 6 mm.	
Greatest Diameter of Bulb	77.8 mm.	
Minimum Useful Screen Diameter	69.0 mm.	
Mounting Position	Any.	
Anode Cap	Recessed Ball	
	BSS448/CT7.	
Base	B.14A.	

Pin 1—Heater.

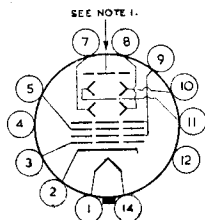
Pin 2—Cathode.

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.

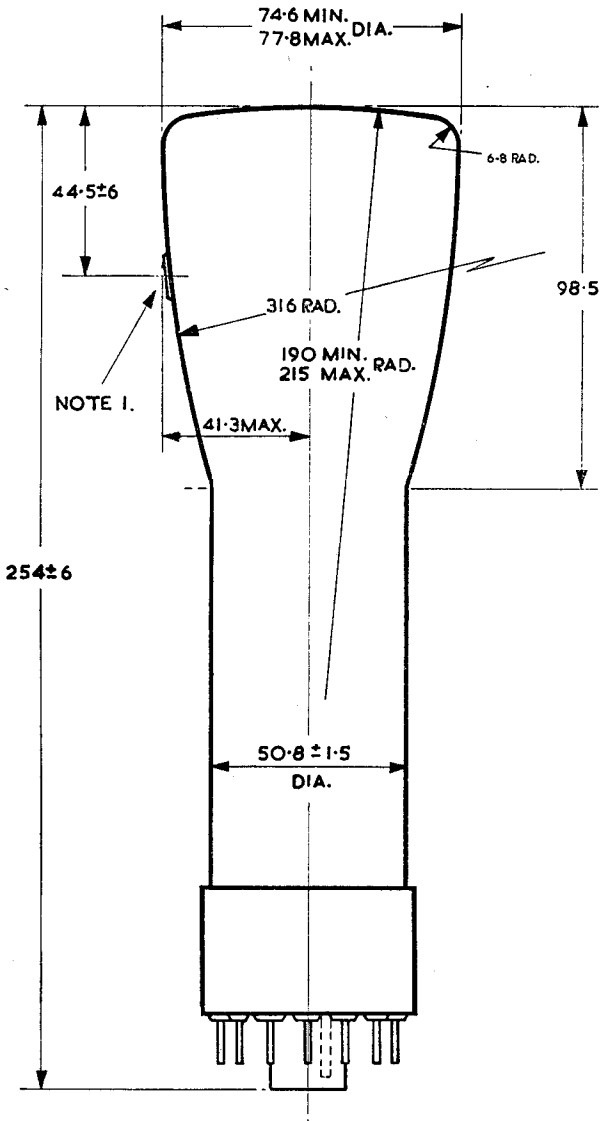
Cap—Anode 4 P.D.A.

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 :

	mm./volt
X Plate	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° . 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.