

3ED2**3ED2**

Oscilloscope Tube

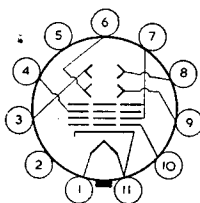
ELECTROSTATIC FOCUS. ELECTROSTATIC DEFLECTION.

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 μ f.
Each X Plate to all other electrodes	. . .	16 μ f.
Each Y Plate to all other electrodes	. . .	11 μ f.
Deflector Plates X1 to X2	. . .	2.5 μ f.
Deflector Plates Y1 to Y2	. . .	2.5 μ f.
Screen:		
Fluorescence	. . .	Blue.
Afterglow	. . .	Yellow.
Persistence of Afterglow	. . .	Long
(10 sec. min./100 sec. max. for 1% initial brightness).		
Focussing Method	. . .	Electrostatic.
Deflecting Method	. . .	Electrostatic.
Overall Length	. . .	292 $\pm$ 9 mm.
Greatest Diameter of Bulb	. . .	77.8 mm.
Minimum Useful Screen Diameter	. . .	69.0 mm.
Mounting Position	. . .	Any.
Base	. . .	11 Pin Magnal.

Pin 1—Heater.
 Pin 2—No connection.
 Pin 3—X1.
 Pin 4—Anode 2.
 Pin 5—No connection.



Pin 6—Y2.
 Pin 7—Anode 1 and 3.
 Pin 8—X2.
 Pin 9—Y1.
 Pin 10—Modulator.
 Pin 11—Heater and Cathode.

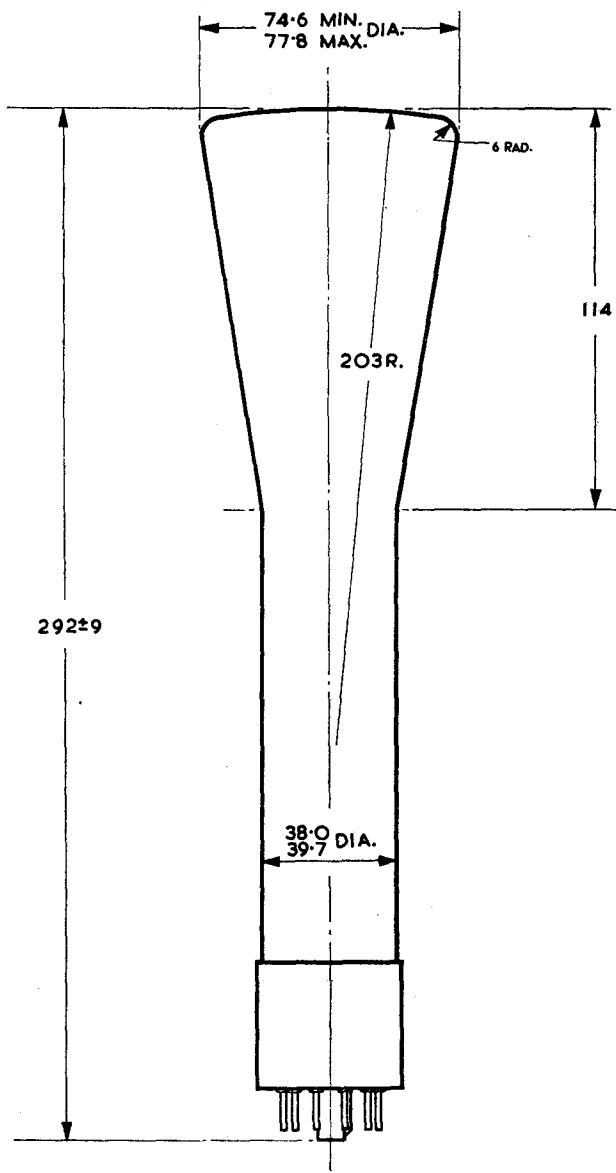
Typical Operating Conditions:

Anode 1 and 3 (2500 volts max.)

	1000 volts	2000 volts.
Anode 2	200/280 volts	400/560 volts.
Modulator volts for cut-off	-50 volts max.	-100 volts max.

Deflection Sensitivity:

	mm/volt	mm./volt.
X Plate	 0.26 to 0.4	0.13 to 0.2
Y Plate	 0.3 to 0.45	0.15 to 0.22



ALL SIZES IN MILLIMETRES.

- Note 1.** When viewing the screen with the tube positioned such that the spigot key is uppermost, a positive voltage applied to terminal X1 will deflect the spot to the left and a positive voltage applied to the terminal Y1 will deflect the spot upwards.
- 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.** The angle between the trace produced by the deflector plates Y1, Y2 and a plane through the tube axis and Pin No. 6, may vary by an angular tolerance of 10° .