

DIAMETER 12" NOMINAL

12EG6

Oscilloscope Tube

ELECTROSTATIC FOCUS. ELECTROSTATIC DEFLECTION

12EG6

GENERAL:	DATA
Heater: Voltage	4.0 a.c. or d.c. volts
Current	1.0 amp.
Direct Inter-electrode Capacitances:	
Modulator to all other electrodes	15 μ f.
Each X Plate to all other electrodes	15 μ f.
Each Y Plate to all other electrodes	15 μ f.
One X to one Y Deflector Plate	4.0 μ f.
Cathode to all other electrodes	15 μ f.
Screen:	
Fluorescence	Green
Persistence of Afterglow	Short
(10 m. sec min./100m. sec. max.) for 1% initial brightness.	
Focussing Method	Electrostatic
Deflecting Method	Electrostatic.
Overall Length	635 \pm 5 mm.
Greatest Diameter of Bulb	312 mm.
Minimum Useful Screen Diameter	280 mm.
Mounting Position	Any
Base	B12D.

Pin 1—Modulator.

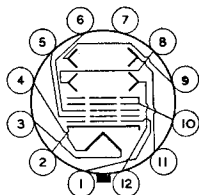
Pin 2—Cathode.

Pin 3—Heater.

Pin 4—Heater.

Pin 5—Anode 1

Pin 6—Anode 2



Pin 7— Internal Conductive Coating.

Pin 8—Y2.

Pin 9—X2.

Pin 10—Anode 3.

Pin 11—X1.

Pin 12—Y1.

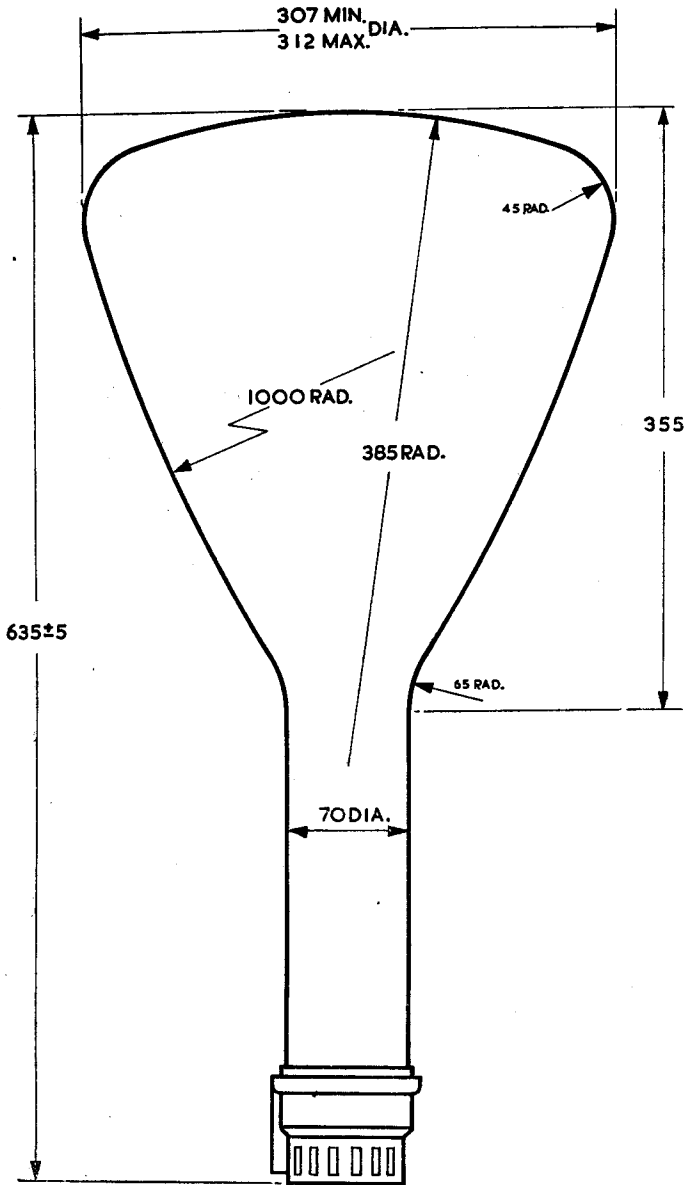
Typical Operating Conditions:

Anode 1	1000 volts.	1000 volts
Anode 2	550 volts.	900 volts.
Anode 3 (5500 volts max.)	3000 volts.	5000 volts.
Modulator volts for cut-off	-60 to -110	-60 to -110

Deflection Sensitivity:	mm./volt.	mm./volt.
X Plate	0.4	0.24
Y Plate	0.4	0.24

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 15 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.