

DIAMETER 6" NOMINAL

6EG7

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# Oscilloscope Tube

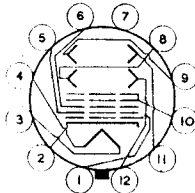
ELECTROSTATIC FOCUS. ELECTROSTATIC DEFLECTION  
Suitable for Asymmetrical Deflection

**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 . . . . .    |   |           | 25 $\mu$ mf.        |
| Each X Plate to all other electrodes . . . . . |   |           | 25 $\mu$ mf.        |
| Each Y Plate to all other electrodes . . . . . |   |           | 25 $\mu$ mf.        |
| One X to one Y Deflector Plate . . . . .       |   |           | 2.5 $\mu$ mf.       |
| Cathode to all other electrodes . . . . .      |   |           | 15 $\mu$ mf.        |
| Screen :                                       |   |           |                     |
| Fluorescence . . . . .                         |   |           | Green.              |
| Persistence . . . . .                          |   |           | Short.              |
|  | (10m sec. min./100m sec. max. for 1% initial brightness). |           |                     |
| Focusing Method . . . . .                      |   |           | Electrostatic.      |
| Deflecting Method . . . . .                    |   |           | Electrostatic.      |
| Overall Length . . . . .                       |   |           | 421 $\pm$ 10 mm.    |
| Greatest Diameter of Bulb . . . . .            |   |           | 163 mm.             |
| Minimum Useful Screen Diameter . . . . .       |   |           | 130 mm.             |
| Mounting Position . . . . .                    |   |           | Any.                |
| Base . . . . .                                 |   |           | B.12.D.             |

- Pin 1—Modulator.
- Pin 2—Cathode.
- Pin 3—Heater.
- Pin 4—Heater.
- Pin 5—Anode 1.
- Pin 6—Anode 2.
- Pin 7—No connection.



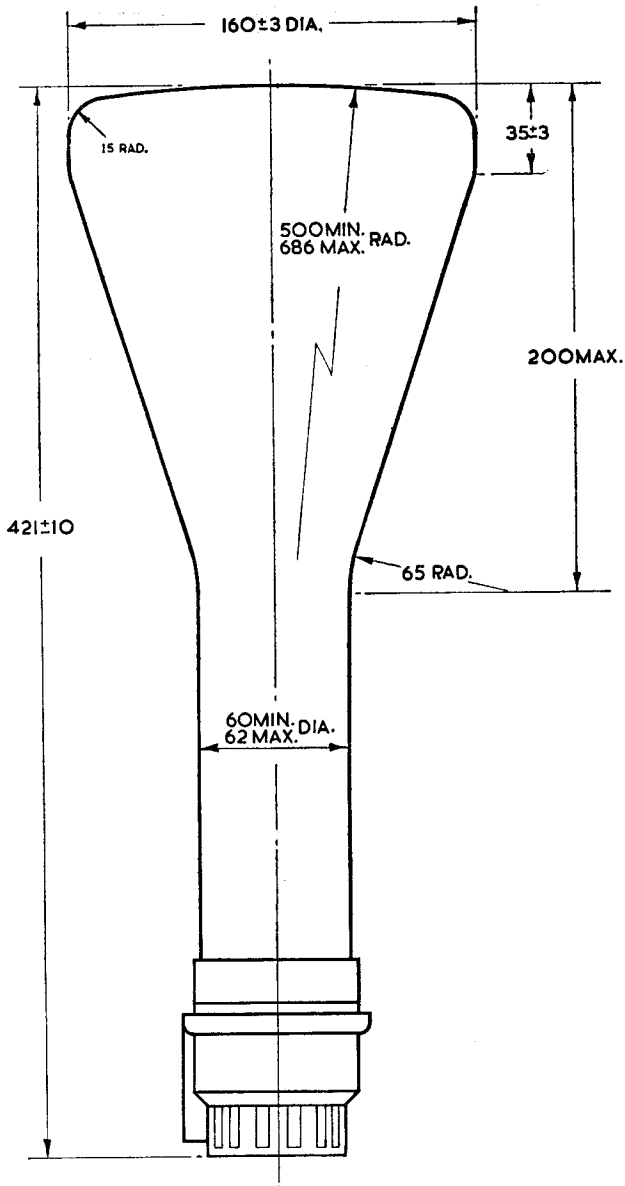
- Pin 8—Y2.
- Pin 9—X2.
- Pin 10—Anode 3 and Internal Conductive coating.
- Pin 11—X1.
- Pin 12—Y1.

**Typical Operating Conditions :**

|                                 |                   |                   |
|---------------------------------|-------------------|-------------------|
| Anode 1 . . . . .               | 2000 volts.       | 2000 volts.       |
| Anode 2 . . . . .               | 800 volts.        | 530 volts.        |
| Anode 3 (6000v. max.) . . . . . | 5000 volts.       | 3000 volts.       |
| Modulator volts for cut-off     |                   |                   |
|                                 | -45 to -80 volts. | -45 to -80 volts. |

|                                 |          |          |
|---------------------------------|----------|----------|
| <b>Deflection Sensitivity :</b> | mm/volt. | mm/volt. |
| X Plate . . . . .               | 0.130    | 0.215    |
| Y Plate . . . . .               | 0.250    | 0.415    |

- 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 10 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.