Oscilloscope Tube

**Data**

**General:**
- Heater: Voltage: 4.0 a.c. or d.c. volts.
- Current: 1.0 amp.
- Direct Inter-electrode Capacitances:
  - Modulator to all other electrodes: 25μf.
  - Each X Plate to all other electrodes: 25μf.
  - Each Y Plate to all other electrodes: 25μf.
  - One X to one Y Deflector Plate: 6μf.
  - Cathode to all other electrodes: 15μf.
- Screen:
  - Fluorescence: Blue.
  - Persistence: Very Short.
  - (10μ sec. max. for 1% initial brightness).
- Focusing Method: Electrostatic.
- Deflecting Method: Electrostatic.
- Overall Length: 332 ± 8 mm.
- Greatest Diameter of Bulb: 90 mm.
- Minimum Useful Screen Diameter: 70 mm.
- Mounting Position: Any.
- Base: B.12.D.

![Diagram of the tube with pin connections](image)

**Pin Numbers:**
- 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.
- Anode 2: 700 volts.
- Anode 3 (5000v. max.): 4000 volts.
- Modulator volts for cut-off: -40 to -80 volts.

**Deflection Sensitivity:**
- X Plate: 0.085 mm/volt.
- Y Plate: 0.190 mm/volt.

**Note 2.** The angle between the trace produced by X1 and X2 and the trace produced by Y1 and Y2 is 90° ± 3°.

**Note 3.** The undeflected focused spot will fall within a circle having a 6 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.