**Oscilloscope Tube**

**ELECTROSTATIC FOCUS. ELECTROSTATIC DEFOCTION**

**DATA**

**GENERAL:**

- Heater: Voltage \( \cdot \cdot \cdot \) 4.0 \( \cdot \cdot \cdot \) a.c. or d.c. volts.
- Current \( \cdot \cdot \cdot \) 1.0 \( \cdot \cdot \cdot \) amp.
- Direct Inter-electrode Capacitances.
  - Modulator to all other electrodes \( \cdot \cdot \cdot \) 25\(\mu\)f.
  - Each X Plate to all other electrodes \( \cdot \cdot \cdot \) 25\(\mu\)f.
  - Each Y Plate to all other electrodes \( \cdot \cdot \cdot \) 25\(\mu\)f.
  - One X to one Y Deflector Plate \( \cdot \cdot \cdot \) 6\(\mu\)f.
  - Cathode to all other electrodes \( \cdot \cdot \cdot \) 15\(\mu\)f.
- Screen:
  - Fluorescence \( \cdot \cdot \cdot \) Blue.
  - Afterglow \( \cdot \cdot \cdot \) Yellow.
  - Persistence of Afterglow \( \cdot \cdot \cdot \) Long.
  - (10 sec. min./100 sec. max. for 1% initial brightness).
- Focusing Method \( \cdot \cdot \cdot \) Electrostatic.
- Deflecting Method \( \cdot \cdot \cdot \) Electrostatic.
- Overall Length \( \cdot \cdot \cdot \) 421 \( \pm \) 10 mm.
- Greatest Diameter of Bulb \( \cdot \cdot \cdot \) 160 mm.
- Minimum Useful Screen Diameter \( \cdot \cdot \cdot \) 130 mm.
- Mounting Position \( \cdot \cdot \cdot \) Any.
- Base \( \cdot \cdot \cdot \) 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 \( \cdot \cdot \cdot \) 2000 volts. 2000 volts.
- Anode 2 \( \cdot \cdot \cdot \) 700 volts. 400 volts.
- Anode 3 (5000v. max.) \( \cdot \cdot \cdot \) 4000 volts. 2000 volts.
- Modulator volts for cut-off \( \cdot \cdot \cdot \) -40 to -80 volts. -40 to -80 volts.

**Deflection Sensitivity:**

- X Plate \( \cdot \cdot \cdot \) 0.160 mm/volt.
- Y Plate \( \cdot \cdot \cdot \) 0.295 0.320 mm/volt.
- 0.590

**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.