**Oscilloscope Tube**

**FLAT FACED BULB**

**ELECTROSTATIC FOCUS. ELECTROSTATIC DEFLECTION**

**GENERAL:**
- Heater: Voltage: 4.0 a.c. or d.c. volts.
- Current: 1.0 amp.
- Direct Inter-electrode Capacitances:
  - Modulator to all other electrodes: 25 µf.
  - Each X Plate to all other electrodes: 25 µf.
  - Each Y Plate to all other electrodes: 25 µf.
  - One X to one Y Deflector Plate: 6 µf.
  - Cathode to all other electrodes: 15 µf.
- Screen:
  - Fluorescence: Blue.
  - Persistence: Very Short.
    - (10 µ sec. max. for 1% initial brightness).
- Focusing Method: Electrostatic.
- Deflecting Method: Electrostatic.
- Overall Length: 421 ± 10 mm.
- Greatest Diameter of Bulb: 159 mm.
- Minimum Useful Screen Diameter: 140 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.
- Anode 2: 700 volts.
- Anode 3 (5000v. max.): 4000 volts.
- Modulator volts for cut-off: -40 to -80 volts.
- 2000 volts.
- 400 volts.
- 2000 volts.

**Deflection Sensitivity:**
- X Plate: 0.145 mm/volt.
- Y Plate: 0.280 mm/volt.
- 0.290 mm/volt.
- 0.560 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 10 mm. radius concentric with the centre of the tube face.
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.