**6EG5 Oscilloscope Tube**

**ELECTROSTATIC FOCUS ELECTROSTATIC DEFLECTION**

**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 25μμf.
  - Each X Plate to all other electrodes 20μμf.
  - Each Y Plate to all other electrodes 13μμf.
  - One X to one Y Deflector Plate 2.5μμf.
  - Cathode to all other electrodes 25μμf.
- Screen:
  - Fluorescence Green.
  - Persistence Short.
  - (10m sec. min./100m sec. max. for 1% initial brightness).
- Focusing Method Electrostatic.
- Deflecting Method Electrostatic.
- Overall Length 421 ± 10 mm.
- Greatest Diameter of Bulb 160 mm.
- Minimum Useful Screen Diameter 130 mm.
- Mounting Position Any.
- Base B.12.D.

**Pin Diagram:**
- 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—No connection.
- Pin 9—X2.
- Pin 10—Anode 3 and Internal Conductive coating.
- Pin 11—X1.
- Pin 12—No connection
- Side Arm 'A'—Y2.
- Side Arm 'B'—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 0.160 mm/volt.
- Y Plate 0.295 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.
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.