# Oscilloscope Tube

**6EG4F**

**Flat Faced Bulb**

**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: 25\(\mu\)f.
  - Each X Plate to all other electrodes: 25\(\mu\)f.
  - Each Y Plate to all other electrodes: 25\(\mu\)f.
  - One X to one Y Deflector Plate: 6\(\mu\)f.
  - Cathode to all other electrodes: 15\(\mu\)f.

**Screen:**
- Fluorescence: Green.
- Persistence: Short.
  - (10 m sec. min./100 m sec. max. for 1% initial brightness).

**Focusing Method:** Electrostatic.
**Deflecting Method:** Electrostatic.
**Overall Length:** 421 ± 10 mm.
**Greatest Diameter of Bulb:** 159 m.m.
**Minimum Useful Screen Diameter:** 140 mm.
**Mounting Position:** Any.
**Base:** B.12.D.

**Pin Connections:**
- 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: 0.145 mm/volt.
- Y Plate: 0.280 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.