6EG4

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 . . . . 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 . . . . 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 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 2 . . . . 700 volts. 400 volts.
Anode 3 (5000v. max.) . . . . 4000 volts. 2000 volts.
Modulator volts for cut-off
-40 to -80 volts. -40 to -80 volts.

Deflection Sensitivity:
X Plate . . . . 0.160 0.320
Y Plate . . . . 0.295 0.590

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.