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 Capacitance.
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 . . . Yellow.
Afterglow . . . Yellow.
Persistence of Afterglow (1 sec. min./10 sec. max. for 1% initial brightness).
Focusing Method . . . Electrostatic.
Deflecting Method . . . Electrostatic.
Overall Length . . . 332 ± 8 mm.
Greatest Diameter of Bulb . . . 92 mm.
Minimum Useful Screen Diameter . . . 70 mm.
Mounting Position . . . Any.
Anode Cap . . . Recessed Small Ball.
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.
Cap—Anode 4 P.D.A.

Typical Operating Conditions:
Anode 1 . . . 2000 volts.
Anode 2 . . . 380 volts.
Anode 3 (4000v. max.) . . . 2000 volts.
Anode 4 Post Deflector Accelerator (6000v. max.) . . . 4000 volts.
Modulator volts for cut-off . . . −40 to −80 volts.

Deflection Sensitivity:
X Plate . . . 0.140
Y Plate . . . 0.320

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 6 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.