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 . . . . 25μμf.
Each Y Plate to all other electrodes . . . . 25μμf.
One X to one Y Deflector Plate . . . . 6μμf.
Cathode to all other electrodes . . . . 15μμf.

Screen:
Fluorescence . . . . Yellow.
Afterglow . . . . Yellow.
Persistence of Afterglow . . Long.
(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 . . . . 90 mm.
Minimum Useful Screen Diameter . . . . 70 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. 350 volts.
Anode 3 (5000v. max.) . . . . 4000 volts. 2000 volts.
Modulator volts for cut-off
-40 to -80 volts. -40 to -80 volts.

Deflection Sensitivity:

<table>
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<tr>
<th>Plate</th>
<th>Sensitivity (mm/volt)</th>
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<tbody>
<tr>
<td>X</td>
<td>0.085</td>
</tr>
<tr>
<td>Y</td>
<td>0.190</td>
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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.
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.