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 . . . . Orange.
 Afterglow . . . . Orange.
 Persistence of Afterglow . . . . Long.
 (10 sec. min./100 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:

<table>
<thead>
<tr>
<th></th>
<th>mm/volt.</th>
<th>mm/volt.</th>
</tr>
</thead>
<tbody>
<tr>
<td>X Plate</td>
<td>0.160</td>
<td>0.320</td>
</tr>
<tr>
<td>Y Plate</td>
<td>0.295</td>
<td>0.590</td>
</tr>
</tbody>
</table>

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.