Oscilloscope Tube

**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 ............................................. Blue.
Persistence ............................................... Very Short.
(10µ 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:
mms/volt.
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.