CATHODE RAY TUBE

Oscilloscope tube with 3-in. diameter screen.

HEATER

\[ \begin{align*}
V_h & = 4.0 \text{ V} \\
I_h & = 1.0 \text{ A}
\end{align*} \]

CAPACITANCES

- Grid to all other electrodes: \( \leq 20 \text{ uuF} \)
- Each \( X \) plate or each \( Y \) plate to all other electrodes: \( \leq 15 \text{ uuF} \)
- One \( X \) plate to one \( Y \) plate: \( \leq 3 \text{ uuF} \)

FLUORESCENT COLOUR

Green. Non-persistent.

DEFLECTION

Electrostatic. The tube is primarily intended for symmetrical operation.

OPERATING CONDITIONS

\[ \begin{align*}
V_{a1} = V_{a3} & = 900 \text{ V} \\
V_{a2} & = 100 \text{ to } 170 \text{ V} \\
V_g & = -1.0 \text{ to } -18 \text{ V}
\end{align*} \]

LIMITING VALUES

\[ \begin{align*}
V_{a1} = V_{a3} \text{ max} & = 1000 \text{ V} \\
V_{h-k} \text{ max} & = 50 \text{ V}
\end{align*} \]

DEFLECTION SENSITIVITY

\[ \text{X and Y plates} \quad \frac{170}{V_{a3}} \text{ mm/V} \]
Viewed from the screen end, and with the tube positioned so that the spigot key of the base is uppermost, a positive voltage on $X'$ will deflect the spot to the left, and a positive voltage on $Y'$ will deflect the spot upwards.

**DIMENSIONS**

70 mm. MAX.

206 mm. MAX.

**ARRANGEMENT OF ELECTRODES AND BASE CONNECTIONS**

**12-CONTACT PIN BASE**