Mullard
OSCILLOGRAPH TUBE

E40-G3

CATHODE RAY TUBE FOR OSCILLOGRAPHIC USE

3 - Inch Screen

Heater

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

 Capacities

\[ \begin{align*}
C_g &= 6.0 \text{ uF} \\
C_{D1D1'} &= 1.0 \text{ uF} \\
C_{D2D2'} &= 3.0 \text{ uF}
\end{align*} \]

Fluorescent Colour - Green

Deflection - Double electrostatic for symmetrical operation.

Operating Conditions

\[ \begin{align*}
V_{a2} &= 500 \text{ V} \\
V_{a1} \text{ (approx. for focus)} &= 140 \text{ V} \\
V_g \text{ ........(l)} &= 0 \text{ V} \\
N_1 &= 0.35 \text{ mm/V} \\
N_2 &= 0.24 \text{ mm/V}
\end{align*} \]

(1) The Grid Voltage should be adjusted to give the required light intensity. The voltage should never become positive or damage to the tube will result.

Max. writing speed ...................... 0.3 km/sec

Limiting Values

\[ \begin{align*}
V_{a2} \text{ max} &= 800 \text{ V} \\
V_{a1} \text{ max} &= 275 \text{ V}
\end{align*} \]

Arrangement of electrodes and base connections.
$V_{a1} = \text{Focus}$

Graph showing the relationship between $V_g$ (V) and $I_a$ (μA) with different voltages applied to $V_a$. The graph includes points for $V_a = 800$ V and $V_a = 500$ V.