SUBMINIATURE LOW MICROPHONY PENTODE

Voltage amplifying pentode primarily designed for low microphony applications.

HEATER

\[ V_h = 6.3 \text{ V} \]
\[ I_h = 200 \text{ mA} \]

To reduce the possibility of hum the heater should be operated from d.c.

MOUNTING POSITION

Any

Note – Direct soldered connections to the leads of this valve must be at least 5mm from the seal and any bending of the valve leads must be at least 1.5mm from the seal.

COOLING

In operation this valve may become very hot and therefore, in the interest of long life, it should be adequately cooled. A suitable method is to mount the valve in a metal clip which conducts the heat away to the chassis.

CAPACITANCES (measured with external shield)

\[ C_{a-k1} < 0.3 \text{ pF} \]
\[ C_{in} = 3.6 \text{ pF} \]
\[ C_{out} = 4.2 \text{ pF} \]

CHARACTERISTICS

\[ V_u = 100 \text{ V} \]
\[ V_{g1} = 0 \text{ V} \]
\[ V_{k2} = 100 \text{ V} \]
\[ I_u = 7.0 \text{ mA} \]
\[ I_{k2} = 2.4 \text{ mA} \]
\[ I_{k1} = -1.4 \text{ V} \]
\[ I_{m} = 3.1 \text{ mA/V} \]
\[ F_u = 200 \text{ kΩ} \]
\[ \beta_{k1-k2} = 28 \]
LIMITING VALUES

\[
\begin{align*}
V_{a1(b1)} \text{ max.} & \quad 300 \quad V \\
V_a \text{ max.} & \quad 175 \quad V \\
V_{g2(b2)} \text{ max.} & \quad 300 \quad V \\
V_{g2} \text{ max.} & \quad 175 \quad V \\
p_{\text{pk}} \text{ max.} & \quad 900 \quad \text{mW} \quad \leftarrow \\
p_{g2} \text{ max.} & \quad 350 \quad \text{mW} \quad \leftarrow \\
l_k \text{ max.} & \quad 10 \quad \text{mA} \\
R_{R1-k} \text{ max. (cathode bias)} & \quad 3.0 \quad \text{M}\Omega \\
R_{R1-k} \text{ max. (fixed bias)} & \quad 1.0 \quad \text{M}\Omega \\
V_{R-k} \text{ max.} & \quad 100 \quad V
\end{align*}
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