SUBMINIATURE OUTPUT PENTODE

Subminiature output pentode suitable for use in hearing aids. It has a filament current of 10mA and is primarily intended for use with an H.T. battery supply of 15 volts.

FILAMENT

\[ V_f \quad 1.25 \quad V \]
\[ I_f \quad 10 \quad mA \]

MOUNTING POSITION

Any

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

CAPACITANCES (Measured without external screen)

\[ C_{a-g1} \quad <0.25 \quad \mu\mu F \]
\[ C_{1n} \quad 2.5 \quad \mu\mu F \]
\[ C_{out} \quad 2.4 \quad \mu\mu F \]

CHARACTERISTICS

\[ V_a \quad 15 \quad V \]
\[ V_g2 \quad 15 \quad V \]
\[ I_a \quad 160 \quad \mu A \]
\[ I_{g2} \quad 40 \quad \mu A \]
\[ V_{g1} \quad -1.5 \quad V \]
\[ E_{in} \quad 180 \quad \mu A/V \]
\[ r_a \quad 400 \quad k \Omega \]
\[ \beta_{g1-g2} \quad 4.5 \]

OPERATING CONDITIONS AS SINGLE VALVE CLASS "A" AMPLIFIER

\[ V_a \quad 15 \quad V \]
\[ V_g2 \quad 15 \quad V \]
\[ V_{g1} \quad 150 \quad \mu A \]
\[ R_a \quad 100 \quad k \Omega \]
\[ I_{a(0)} \quad 37 \quad \mu A \]
\[ I_{g(0)} \quad 0.85 \quad V \]
\[ V_{in(r.m.s.)} \quad 950 \quad \mu W \]
\[ P_{out} \quad 10 \quad % \]

LIMITING VALUES

\[ V_{a \ max.} \quad 45 \quad V \]
\[ V_{g2 \ max.} \quad 45 \quad V \]
\[ I_{k \ max.} \quad 600 \quad \mu A \]
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