SUBMINIATURE OUTPUT PENTODE

Subminiature output pentode suitable for use in hearing-aids. It has a filament current of 25mA and is primarily intended for use with an H.T. battery supply of 22.5 volts.

FILAMENT

<table>
<thead>
<tr>
<th>$V_f$</th>
<th>1.25</th>
<th>V</th>
</tr>
</thead>
<tbody>
<tr>
<td>$I_f$</td>
<td>25</td>
<td>mA</td>
</tr>
</tbody>
</table>

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.

CAPACITANCE

$C_{a-g_1}$ 0.15 $\mu$F

CHARACTERISTICS

$V_a$ 22.5 V
$V_{g2}$ 22.5 V
$I_a$ 600 $\mu$A
$I_{g2}$ 150 $\mu$A
$V_{g1}$ -2.2 V
$g_m$ 430 $\mu$A/V
$r_a$ 100 k$\Omega$
$r_{g1-g2}$ 5.0

OPERATING CONDITIONS AS SINGLE VALVE CLASS "A" AMPLIFIER

$V_b$ 22.5 V
$V_{g2}$ 22.5 V
$V_{g1}$ -2.2 V
$R_a$ 37.5 k$\Omega$
$I_{b(0)}$ 600 $\mu$A
$I_{g(0)}$ 150 $\mu$A
$V_{in}$ (r.m.s.) 1.3 V
$P_{out}$ 5.0 mW
$D_{tot}$ 10 %

LIMITING VALUES

$V_a$ max. 45 V
$V_{g2}$ max. 45 V
$p_a$ max. 100 mW
$p_{g2}$ max. 25 mW
$I_{g}$ max. 2.3 mA
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B5A BASE