HEATER

\[ V_h \]
\[ I_h \]
6.3 V
150 mA

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 interests 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 and should result in a bulb temperature of approximately 100°C.

CAPACITANCES

Pentode connected

\[ C_{a-g1} \] less than 0.015 pF
\[ C_{in} \] 4.1 pF
\[ C_{out} \] 2.5 pF

Triode connected

\[ C_{a-g1} \] 1.65 pF
\[ C_{in} \] 2.8 pF
\[ C_{out} \] 4.2 pF

CHARACTERISTICS

Pentode connected

\[ V_a \] 100 V
\[ V_{gs} \] 100 V
\[ V_{g1} \] -1.4 V
\[ I_a \] 7.0 mA
\[ I_{g2} \] 2.2 mA
\[ g_m \] 5.0 mA/V
\[ r_a \] 250 kΩ
\[ r_{g1-g2} \] 36 kΩ
\[ R_{eq} \] 1.6 kΩ
\[ R_{in} (f = 50 Mc/s) \] 25 kΩ

Triode connected

\[ V_a \] -1.4 V
\[ V_{g1} \] 9.2 mA
\[ I_a \] 6.8 mA/V
\[ g_m \] 5.3 kΩ
\[ \mu \] 36
**EF72**

**SUBMINIATURE R.F. PENTODE**

*High slope r.f. pentode*

**LIMITING VALUES**

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>$V_{b1 b2}$ max.</td>
<td>300 V</td>
</tr>
<tr>
<td>$V_b$ max.</td>
<td>175 V</td>
</tr>
<tr>
<td>$V_{gs b}$ max.</td>
<td>300 V</td>
</tr>
<tr>
<td>$V_{gs}$ max.</td>
<td>175 V</td>
</tr>
<tr>
<td>$p_a$ max.</td>
<td>800 mW</td>
</tr>
<tr>
<td>$p_{es}$ max.</td>
<td>300 mW</td>
</tr>
<tr>
<td>$p_{a+es}$ max.</td>
<td>1.0 W</td>
</tr>
<tr>
<td>$I_k$ max.</td>
<td>12 mA</td>
</tr>
<tr>
<td>$V_{gs}$ max. ($I_{gs} = +0.3 \mu A$)</td>
<td>-1.3 V</td>
</tr>
<tr>
<td>$R_{gs k}$ max.</td>
<td>500 kΩ</td>
</tr>
<tr>
<td>$V_{h k}$ max.</td>
<td>100 V</td>
</tr>
<tr>
<td>$R_{h k}$ max.</td>
<td>20 kΩ</td>
</tr>
</tbody>
</table>

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**BBD/F Base**

All dimensions in mm

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**Mullard**

ISSUE 3

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