SUBMINIATURE U.H.F. TRIODE

EC70

Triode primarily intended for use as an oscillator at frequencies of the order of 500Mc/s.

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 satisfactory 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

<table>
<thead>
<tr>
<th>Shielded</th>
<th>Unshielded</th>
</tr>
</thead>
<tbody>
<tr>
<td>( C_{a-k} )</td>
<td>2.1 pF</td>
</tr>
<tr>
<td>( C_{g-k} )</td>
<td>1.8 pF</td>
</tr>
<tr>
<td>( C_{a-g} )</td>
<td>2.8 pF</td>
</tr>
</tbody>
</table>

CHARACTERISTICS

\[ V_a \]
\[ V_g \]
\[ I_h \]
\[ z_m \]
\[ \mu \]
\[ r_a \]

100 V
-2.0 V
13 mA
5.5 mA/V
20
3.6 kΩ

TYPICAL OPERATING CONDITIONS AS AN OSCILLATOR AT 500 Mc/s

\[ V_{a_{opt}} \]
\[ I_{a_{opt}} \]
\[ I_g \]
\[ R_{g-k} \]
\[ P_{10dB} \]

175 V
20 mA
2.0 mA
5.6 kΩ
750 mW
EC70

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LIMITING VALUES

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>$V_{b(h)}$ max.</td>
<td>300 V</td>
</tr>
<tr>
<td>$V_b$ max.</td>
<td>175 V</td>
</tr>
<tr>
<td>$p_a$ max.</td>
<td>3.0 W</td>
</tr>
<tr>
<td>$I_k$ max.</td>
<td>22 mA</td>
</tr>
<tr>
<td>$R_{g-k}$ max.</td>
<td>500 kΩ</td>
</tr>
<tr>
<td>$R_{h-k}$ max.</td>
<td>20 kΩ</td>
</tr>
<tr>
<td>$V_{h-k}$ max.</td>
<td>100 V</td>
</tr>
</tbody>
</table>

All dimensions in mm