CHARACTERISTICS

- Very small size: 5.4x2.8x2.9mm
- Good mechanical performance
- Good sensitivity in small volume
- Very stable electrical properties in full operational operative range (-40°C to +125°C)
- Wire: H, 125°C solderable.
- Terminals: Ag-Ni-Sn100
- Max. Operating Temperature: +125°C
- Suitable for Pick&Place SMD assembly
- This component is also functional to 20kHz and 134kHz.

SPECIFICATIONS

DIMENSIONS (mm)

SMD Transponder Coil with CAP
5.4x2.8x2.9mm

SINGLE AXIS TRANSPONDERS INDUCTORS

FEATURES

This single axis transponder suitable for Surface Mountable process combines a very small size and a good electrical performance and stability in temperature. A very good solution for RTPMS.

ELECTRICAL SPECIFICATIONS | 125kHz

<table>
<thead>
<tr>
<th>Code</th>
<th>L (mH)</th>
<th>Q min</th>
<th>SRF (kHz) Min</th>
<th>Cress (pF)</th>
<th>DCR (Ω) Max</th>
<th>Sensitivity (mV/uT) min</th>
<th>Dimensions (mm) Max</th>
</tr>
</thead>
<tbody>
<tr>
<td>TP0502CAP-0589J</td>
<td>5.29 ± 5%</td>
<td>22</td>
<td>550</td>
<td>270</td>
<td>96.8</td>
<td>20</td>
<td>5.4 x 2.8 x 2.9</td>
</tr>
<tr>
<td>TP0502CAP-0720J</td>
<td>7.2 ± 5%</td>
<td>20</td>
<td>550</td>
<td>220</td>
<td>107.8</td>
<td>25</td>
<td>5.4 x 2.8 x 2.9</td>
</tr>
<tr>
<td>TP0502CAP-1600J</td>
<td>16.0 ± 5%</td>
<td>21</td>
<td>400</td>
<td>100</td>
<td>191.4</td>
<td>40</td>
<td>5.4 x 2.8 x 2.9</td>
</tr>
</tbody>
</table>

Recommended Pad-Layout