This new design is coil with a very stable and high quality ferrite core and tiny size (5.1 x 2.3 x 2.4mm) and high sensitivity in low frequency range (20-40kHz). Those pieces are winding with thin copper wire up to 12μm and its inductances range is 40-270μH. Besides, it has good frequency and temperature behaviour and can be served with "custom" electrics characteristics according requirements of hearing aid devices manufacturers.

**FEATURES**

- Small size
- High sensitivity
- SMD mounting

**APPLICATIONS**

- Hearing aid devices

**CHARACTERISTICS**

<table>
<thead>
<tr>
<th>L (μH) @ 1kHz</th>
<th>Tolerance</th>
<th>Rdc (KΩ)</th>
<th>SRF (kHz)</th>
<th>Sensitivity (mVpp/App/m) @1kHz</th>
</tr>
</thead>
<tbody>
<tr>
<td>TC0502-04000J</td>
<td>40</td>
<td>±5%</td>
<td>0.6</td>
<td>&gt; 250</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>&gt; 0.66</td>
</tr>
<tr>
<td>TC0502-14000J</td>
<td>140</td>
<td>±5%</td>
<td>2.9</td>
<td>&gt; 90</td>
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<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>&gt; 1.18</td>
</tr>
<tr>
<td>TC0502-17000J</td>
<td>170</td>
<td>±5%</td>
<td>3.2</td>
<td>&gt; 80</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>&gt; 1.38</td>
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<tr>
<td>TC0502-27000J</td>
<td>270</td>
<td>±5%</td>
<td>4.2</td>
<td>&gt; 70</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>&gt; 1.76</td>
</tr>
</tbody>
</table>

This chart is a reference guide for the most common required values at working frequency of 1kHz. Any other inductance value at LF or tighter tolerances can be provided. Please contact our sales department for any inquiry. Sensitivity measured with Helmholz coils H=0.34 App/m @1kHz. Contact us for measurement specification. Metallization: Ag(Base)/Ni(inter)/Sn(Finish)