**SMD Telecoil – CP-H0114-C**

**Core material**  Ferrite  
**Terminations**  RoHS compliant silver-palladium-platinum-glass frit. Other terminations available at additional cost.  
**Weight**  100 mg  
**Ambient temperature**  −40°C to +85°C with Irms current, +85°C to +100°C with derated current  
**Storage temperature**  Component: −40°C to +100°C. Packaging: −40°C to +80°C  
**Resistance to soldering heat**  Max three 40 second refractions at +260°C, parts cooled to room temperature between cycles  
**Moisture Sensitivity Level (MSL)**  1 (unlimited floor life at <30°C/85% relative humidity)  
**Failures in Time (FIT) / Mean Time Between Failures (MTBF)**  One per billion hours / one billion hours, calculated per Telcordia SR-332  
**Packaging**  1000 per 7″ reel; 3500 per 13″ reel  
**PCB washing**  Only pure water or alcohol recommended

<table>
<thead>
<tr>
<th>Part number</th>
<th>Inductance (±5% (mH))</th>
<th>SRF typ (kHz)</th>
<th>SRF in parallel with 220 pF capacitor (±3 (kHz))</th>
<th>DCR max (Ohms)</th>
<th>Irms (mA)</th>
</tr>
</thead>
<tbody>
<tr>
<td>CP-H0114-C_</td>
<td>6.6</td>
<td>710</td>
<td>124.6</td>
<td>82.7</td>
<td>30</td>
</tr>
</tbody>
</table>

1. When ordering, please specify **packaging** code:
   
   **Packaging:**
   
   C = 7″ machine-ready reel. EIA-481 embossed plastic tape (2000 parts per full reel).
   
   B = Less than full reel. In tape, but not machine ready. To have a leader and trailer added ($25 charge), use code letter C instead.
   
   D = 13″ machine-ready reel. EIA-481 embossed plastic tape. Factory order only, not stocked (3500 parts per full reel).

2. Inductance measured at 125 kHz, 0.1 Vrms using Coilcraft SMD-B fixture in Agilent/HP 4192-A impedance analyzer with Coilcraft-provided correlation pieces.

3. SRF measured using Agilent/HP 8753D network analyzer with Coilcraft SMD-D test fixture.

4. DCR measured on Cambridge Technology Micro-ohmmeter.

5. Current that causes a 15°C temperature rise from 25°C ambient. Because of their open construction, these parts will not saturate.


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**Recommended Land Pattern**

<table>
<thead>
<tr>
<th>A (max)</th>
<th>B (max)</th>
<th>C (max)</th>
<th>D (ref)</th>
<th>E</th>
<th>F</th>
<th>G</th>
<th>H (inches)</th>
<th>I</th>
<th>J (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.224</td>
<td>0.098</td>
<td>0.098</td>
<td>0.039</td>
<td>0.083</td>
<td>0.031</td>
<td>0.138</td>
<td>0.093</td>
<td>0.041</td>
<td>0.129</td>
</tr>
<tr>
<td>5.70</td>
<td>2.50</td>
<td>2.50</td>
<td>1.00</td>
<td>2.10</td>
<td>0.80</td>
<td>3.50</td>
<td>2.36</td>
<td>1.04</td>
<td>3.27</td>
</tr>
</tbody>
</table>