Micro SMT Broadband Conical Inductor

Features
- Smallest SMT conical available
- Broadband performance past 65 GHz
- SMT style for volume manufacturing
- Low insertion loss < -0.35 dB
- Perfect for fiber-optic applications

Micro SMT Conical Inductor Specification

<table>
<thead>
<tr>
<th>Part Number</th>
<th>L (uH)</th>
<th>I max (mA)</th>
<th>Upper Freq. Limit (GHz)</th>
<th>Return Loss (dB)</th>
<th>Insertion Loss (dB)</th>
<th>Q Typ. @ 10 MHz</th>
<th>DCR Typ (Ohms)</th>
<th>Wire Size (AWG)</th>
<th>Foot Print (L x W) Inch</th>
<th>Carrier Color</th>
</tr>
</thead>
<tbody>
<tr>
<td>CC20T44K240G5-C</td>
<td>.170</td>
<td>325</td>
<td>65+</td>
<td>-20</td>
<td>-35</td>
<td>22-28</td>
<td>0.300</td>
<td>44</td>
<td>.040 x .060</td>
<td>Tan</td>
</tr>
<tr>
<td>CC25T47K240G5-C</td>
<td>.250</td>
<td>230</td>
<td>65+</td>
<td>-26</td>
<td>-35</td>
<td>25-30</td>
<td>0.800</td>
<td>47</td>
<td>.040 x .060</td>
<td>Tan</td>
</tr>
</tbody>
</table>

Custom conicals available upon request - Contact Piconics for more info.

S-Parameters available @ www.piconics.com

Environmental:
- Operating Temp.: -55°C to +155°C
- Storage Temp.: -55°C to +155°C
- RoHS Compliant: Yes
- Outgas: Meets ASTM E595 (Coil & Housing Only, Alt Epoxy Required)
- MSL Rating: 1

Soldering:
- Max Temp: 260°C
- Max # Reflow: 3
- Max Time: 10 seconds

Frequency Response:

![S11 Frequency Response](attachment:image1)

CC25T47K240G5-C
Shunt Measurement
Mechanicals:
*Not Drawn To Scale*
*Dimensions in Inches*

Recommended Foot Print:
* See “Mounting Instructions” on our website for additional mounting instructions.

Tape & Reel Specs:

<table>
<thead>
<tr>
<th>Part #</th>
<th>CC20T44K240G5-C</th>
<th>CC25T47K240G5-C</th>
</tr>
</thead>
<tbody>
<tr>
<td>Qty. Per Reel</td>
<td>1000 MAX/ Reel</td>
<td></td>
</tr>
<tr>
<td>Tape Width</td>
<td>8 mm</td>
<td></td>
</tr>
<tr>
<td>Pocket Pitch</td>
<td>4.0 mm</td>
<td></td>
</tr>
<tr>
<td>Outside Reel Diameter</td>
<td>180 mm</td>
<td></td>
</tr>
</tbody>
</table>

Alignment notch denotes small end of coil.

Notes:
1. L & Q measured on an HP 4191A RF Impedance Analyzer using a 16092A Spring Clip Fixture.
2. Idc Max is the DC current at which the device sees a 100°C temperature rise over an ambient temperature of 25°C.
3. Please see “Conical Frequency Range Measurement Document” to see process for determining the inductors frequency range.
4. Please see “Mounting Instructions” in our application data section of our website for additional mounting instructions.