LTCC
High Temperature Inductors
0.27x0.27 inch size

NASCENTechnology, Inc. has developed a series of high temperature, RoHS compliant inductors using low temperature co-fired ceramic (LTCC) ferrite usable to 300°C that feature low profile, rugged packaging, and self shielding characteristics. See individual data sheets for part dimensions.

Electrical Parameters at 25 °C unless otherwise noted

<table>
<thead>
<tr>
<th>Part No.</th>
<th>No Load Inductance† µH</th>
<th>100 mA Inductance µH</th>
<th>100 mA Tolerance</th>
<th>Nominal DC Resistance ohms</th>
<th>Rated Current†† mA</th>
<th>Saturation Current* mA</th>
</tr>
</thead>
<tbody>
<tr>
<td>85008</td>
<td>15</td>
<td>12</td>
<td>20%</td>
<td>0.40</td>
<td></td>
<td>350</td>
</tr>
<tr>
<td>85012</td>
<td>35</td>
<td>29</td>
<td>25%</td>
<td>0.60</td>
<td>530</td>
<td></td>
</tr>
<tr>
<td>85016</td>
<td>63</td>
<td>48</td>
<td>30%</td>
<td>0.80</td>
<td></td>
<td>250</td>
</tr>
<tr>
<td>85077</td>
<td>33</td>
<td>30</td>
<td>25%</td>
<td>0.38</td>
<td></td>
<td>250</td>
</tr>
</tbody>
</table>

† Tolerance for no load inductance is ±25 %
†† Current will cause a 35 °C temperature rise over ambient (measured 20 to 55 °C)
* Saturation Current is the current that results in a 35% decrease in inductance over the 100 mA Inductance.
Thickness varies by part; the range is 0.032-0.100 in [0.8-2.54 mm]

Common termination options (please add option to the end of the part number when inquiring):
-A0 Thick film AgPt with side terminations, solderable
-C0 Thick film Au, Au wirebonding
-D0 Au over Ni, solderable
-D1 Au over Ni, Al wirebonding

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This product is protected under US Patent #6054914, #6198374 and other international patents.
Specifications subject to change without notice. 04/17