LTCC
High Temperature Inductors
0.2x0.2 inch (5x5 mm)
Higher Isat Series

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.

<table>
<thead>
<tr>
<th>Part No.</th>
<th>No Load Inductance† µH</th>
<th>100 mA Inductance µH</th>
<th>Tolerance</th>
<th>Nominal DC Resistance ohms</th>
<th>Rated Current†† mA</th>
<th>Saturation Current* mA</th>
</tr>
</thead>
<tbody>
<tr>
<td>85084</td>
<td>4.9</td>
<td>4.9</td>
<td>25 %</td>
<td>0.23</td>
<td>900</td>
<td>1000</td>
</tr>
<tr>
<td>85085</td>
<td>21</td>
<td>21</td>
<td>25%</td>
<td>1.14</td>
<td>-</td>
<td>550</td>
</tr>
<tr>
<td>85086</td>
<td>49</td>
<td>46</td>
<td>25 %</td>
<td>3</td>
<td>-</td>
<td>400</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]
Part mass 0.6 to 1.2 g

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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