LTCC
High Temperature Inductors
0.27x0.27 inch size
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.

**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>85090</td>
<td>20</td>
<td>19</td>
<td>20%</td>
<td>0.50</td>
<td>800</td>
<td></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