

LTCC

High Temperature Inductors

0.40x0.40 inch size



NASCENT Technology, 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.

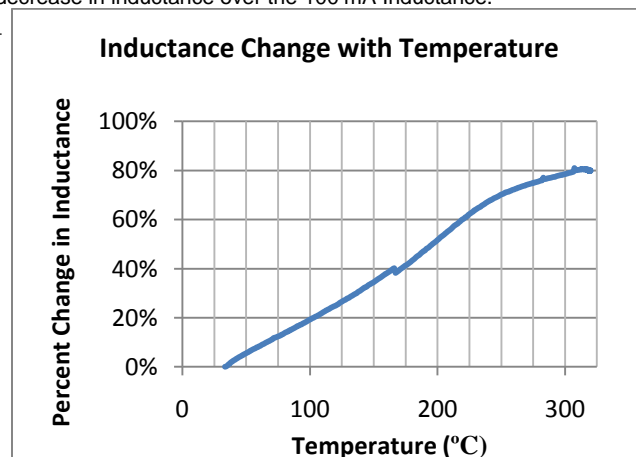
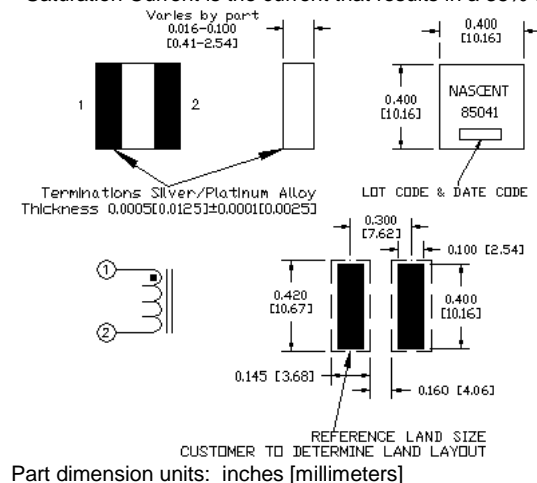
Electrical Parameters at 25 °C unless otherwise noted

| Part No. | No Load Inductance [†] μH | 100 mA Inductance μH | 100 mA Tolerance | Nominal DC Resistance ohms | Rated Current ^{††} mA | Saturation Current* mA |
|----------|---------------------------------------|-------------------------|------------------|-------------------------------|-----------------------------------|---------------------------|
| 85043 | 7.2 | 6.4 | 20% | 0.10 | 1050 | 350 |
| 85062 | 10 | 9.9 | 20% | 0.12 | - | 350 |
| 85044 | 13 | 12 | 20% | 0.20 | 1000 | 300 |
| 85047 | 20 | 20 | 20% | 0.19 | 900 | 300 |
| 85050 | 27 | 24 | 20% | 0.70 | 600 | 350 |
| 85048 | 49 | 30 | 20% | 0.56 | - | 225 |
| 85063 | 48 | 45 | 20% | 0.53 | - | 275 |
| 85053 | 48 | 42 | 30% | 1.33 | 400 | 300 |
| 85052 | 54 | 50 | 30% | 0.95 | 530 | 300 |
| 85064 | 90 | 75 | 20% | 0.99 | - | 275 |
| 85055 | 100 | 85 | 20% | 1.75 | 360 | 250 |
| 85056 | 115 | 110 | 20% | 1.00 | 430 | 300 |
| 85058 | 210 | 170 | 20% | 2.00 | 330 | 300 |

[†] 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.



For additional information, contact: Brian Nelson, National Sales Manager
 Phone: 605-878-2417, Fax: 605-884-2450, E-mail: bnelson@nascenttechnology.com
 NASCENT Technology, Inc. 121 Airport Drive, Watertown, SD 57201
www.nascenttechnology.com