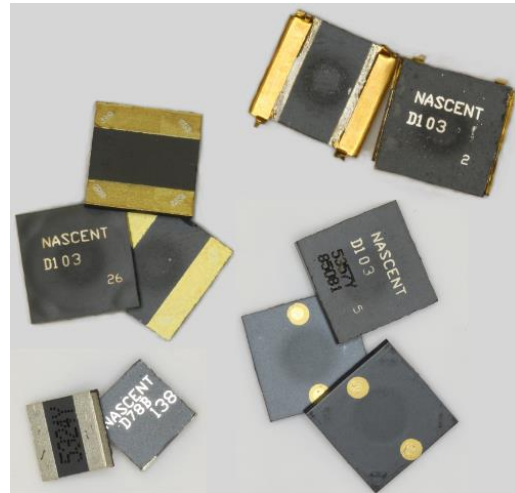


LTCC High Temperature Inductors 0.30x0.30 inch Size

NASCENTTechnology, 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

| Part No. | No Load Inductance [†] μH | 100 mA Inductance μH | 100 mA Tolerance | Nominal DC Resistance ohms | Rated Current ^{††} mA | Saturation Current* mA |
|----------|---------------------------------------|-------------------------|------------------|-------------------------------|-----------------------------------|---------------------------|
| 85022 | 10 | 5.9 | 20% | 0.12 | | 250 |
| 85024 | 12 | 10 | 20% | 0.20 | | 250 |
| 85027 | 21 | 19 | 20% | 0.30 | | 250 |
| 85028 | 51 | 30 | 20% | 0.60 | | 250 |
| 85032 | 48 | 43 | 25% | 1.00 | | 250 |
| 85031 | 88 | 47 | 20% | 1.20 | | 250 |
| 85035 | 86 | 67 | 20% | 1.90 | | 250 |
| 85036 | 100 | 85 | 25% | 1.35 | | 250 |
| 85038 | 175 | 125 | 25% | 2.43 | | 250 |

[†] 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

For additional information, contact: Daryl Schofield, General Manager
Phone : 605-882-8513, Fax : 605-884-2450, E-mail : dschofield@nascenttechnology.com
NASCENTTechnology Manufacturing, Inc. 1404 9th Ave. SW, Watertown, SD 57201
www.nascenttechnology.com