

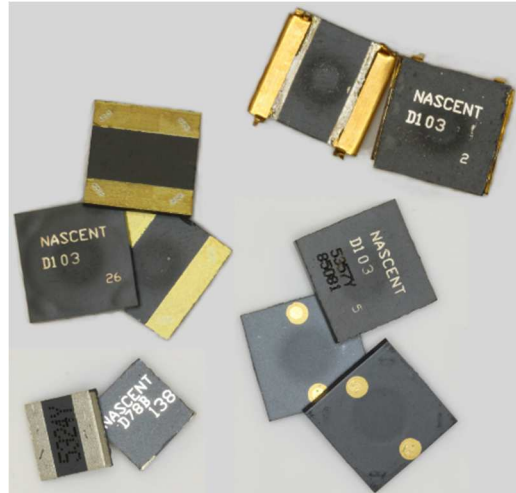
# LTCC

## High Temperature Inductors

### 0.40x0.40 inch size

### Higher Isat Series

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. See individual data sheets for part dimensions.



#### Electrical Parameters at 25 °C unless otherwise noted

Part No.	No Load Inductance <sup>†</sup> μH	100 mA Inductance μH	100 mA Tolerance	Nominal DC Resistance ohms	Rated Current <sup>††</sup> mA	Saturation Current* mA
85081	10.7	10.7	20%	0.28	-	950
85082	52	52	20%	1.4	-	350
85083	91	91	20%	2.75	-	290

<sup>†</sup> Tolerance for no load inductance is ±25 %

<sup>††</sup> 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, compliant to MIL-PRF-123D Appendix B
- C0 Thick film Au, Au wirebonding
- D0 Au over Ni, solderable, compliant to MIL-PRF-123D Appendix B
- D1 Au over Ni, Al wirebonding
- F0 Thick film AgPt without side terminations, solderable, compliant to MIL-PRF-123D Appendix B

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