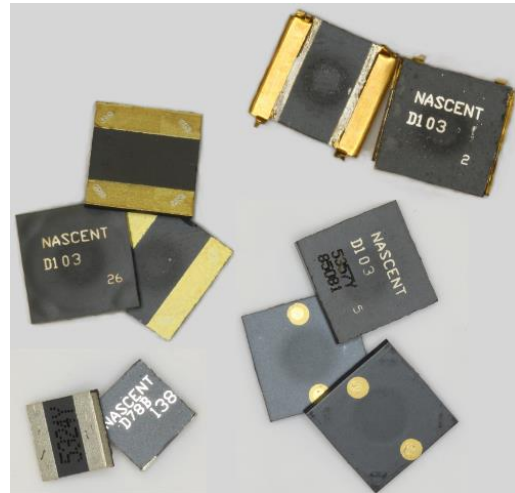


LTCC High Temperature Inductors 0.2x0.2 inch (5x5 mm)



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	Approx Height mm
85071	3.7	3.1	25 %	0.14	-	275	1.1
85068	9.7	7.5	25%	0.2	-	250	1.7
85074	12	6.6	25 %	0.18	-	250	1.5
85072	15	13	25 %	0.7	-	250	1.1
85075	32	24	25 %	0.9	-	200	1.5
85069	37	29	25 %	1	-	250	1.7
85073	38	27	25 %	2	-	200	1.1
85076	71	48	25 %	2.5	-	200	1.5
85070	87	57	25 %	2.9	-	225	1.7

[†] 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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