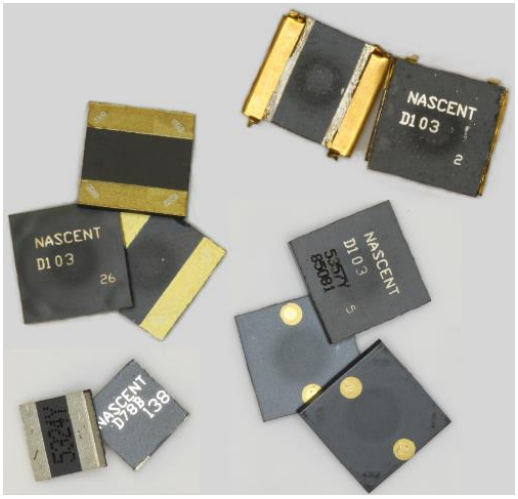
LTCC
High Temperature Inductors
0.40x0.40 inch size



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

Part No.	No Load Inductance† µH	100 mA Inductance µH	100 mA Tolerance	Nominal DC Resistance ohms	SRF MHz	Rated Current†† mA	Saturation Current* mA
85042	4.5	4.1	20%	0.10		-	290
85043	7.2	6.4	20%	0.10	16	1050	350
85062	10	9.9	20%	0.12		-	350
85044	13	12	20%	0.20	13	1000	280
85047	20	20	20%	0.19	8.8	900	300
85048	21	20	20%	1.00		-	290
85050	27	24	20%	0.70		600	350
85051	31	30	20%	1.5		-	270
85063	48	45	20%	0.53		-	275
85053	48	42	30%	1.33		400	300
85052	54	50	30%	0.95	4.3	530	250
85064	90	75	20%	0.99		-	275
85055	100	85	20%	1.75	3.7	360	225
85056	115	110	20%	1.00	3.7	430	300
85058	210	170	20%	2.00	3.1	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.
Part mass 0.6 to 1.2 g
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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