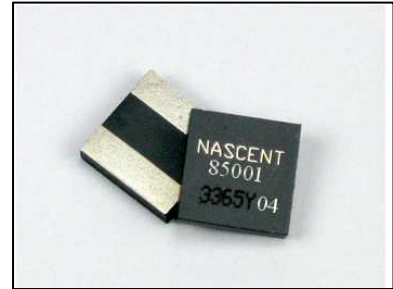


LTCC

High Temperature Inductors

85041 thru 85061

0.40x0.40 inch



NASCENTechnology, Inc. has developed a series of high temperature inductors using low temperature co-fired ceramic (LTCC) ferrite usable to 300°C that feature low profile, rugged packaging, self shielding and customizable. The monolithic structure provides improved mechanical strength over traditional transformer technology.

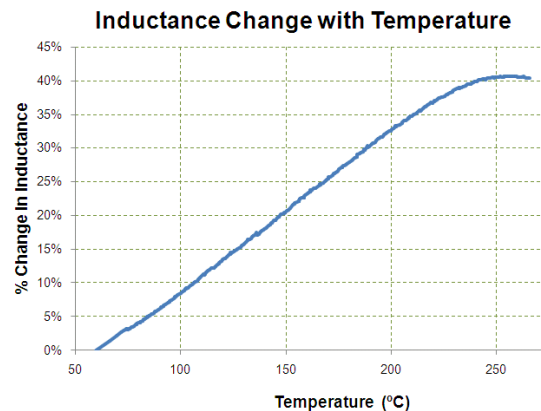
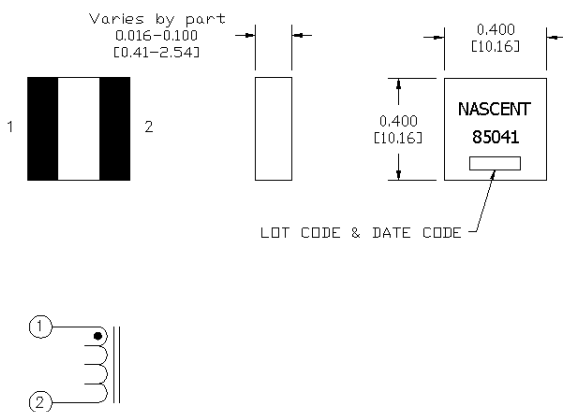
Electrical Parameters

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	15%	0.20	1000	300
85047	20	20	20%	0.19	900	300
85050	27	24	20%	0.70	600	350
85053	48	42	30%	1.33	400	300
85063	48	45	20 %	0.53	-	275
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 $\pm 25\%$

^{††} Current will cause a 35 C (20-25 to 55) temperature rise over ambient,

* Saturation Current is the current that results in a 35% decrease in inductance over the 100 mA Inductance.



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