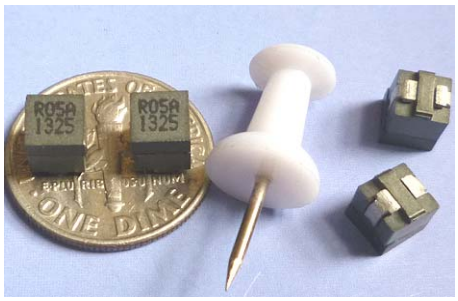
SL2024 Series

1. Features:

· Ferrite based SMD Inductor with lower core loss.
· Inductance Range:50nH to 100nH , Custom values are welcomed.
· High current output chokes, upto 71.0 Amp with approx. 20% roll off.
· Low Profile 6.00mm/6.10mm typical Height .
· 5.20 x 5.00mm foot print.
· Ideal for Buck Converter, VRM & High Density Board Design.
· Operating frequency up to 1 MHz application.
· Operating Temperature Range -55°C to + 130°C , RoHs & HF compliance .
· T & R Qtys: 850 pcs , 13'' Reel ;

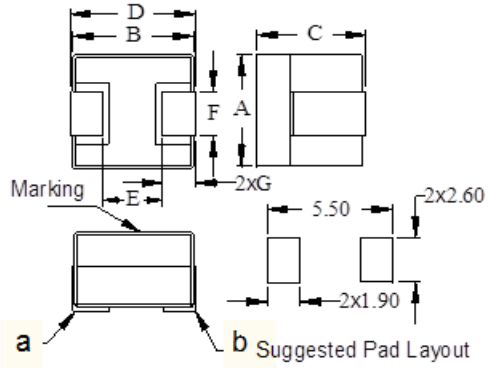


2. Electrical Characteristic of SL2024 Series:

Part Number	Inductance (nH) ±15%	DCR (mΩ) ± 7.0%	Isat[1] (A) @25℃	Isat[2] (A) @75℃	Isat[3] (A) @100℃	Irms (A) @25℃	Dim. C (mm) Max.
SL2024A-R05LHF	50.00	0.20	68.00	64.00	58.00	44.00	6.10
SL2024B-R05LHF	50.00	0.27	71.00	65.00	61.00	50.00	6.10
SL2024A-R06LHF	60.00	0.20	56.00	51.00	47.00	44.00	6.00
SL2024B-R06LHF	60.00	0.27	59.00	54.00	50.00	50.00	6.00
SL2024A-R10LHF	100.00	0.20	34.00	32.00	29.00	44.00	6.00

3. Mechanical Dimension(unit: mm):

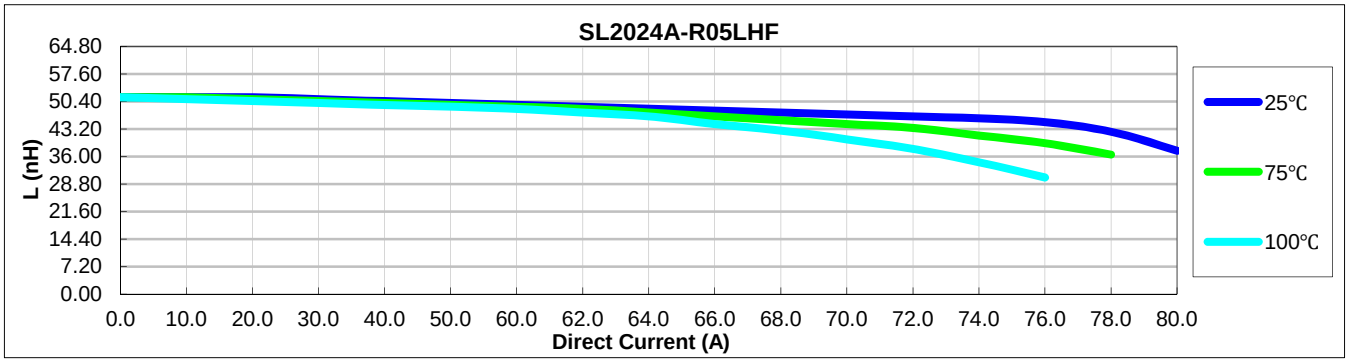
Series Name	A Max.	B Max.	C Max.	D Max.	E Nom.	F ±0.20	G ±0.2
SL2024A	5.00	5.00	See table above	5.20	2.20	2.00	1.40
SL2024B	5.00	5.00		5.20	2.40	2.00	1.40



Note:

1>.Open Circuit Inductance (OCL) test condition:100KHz,0.1Vrms,0Adc ,at 25 ℃.
2>.Full Load Inductance (FLL) Test condition:100KHz,0.1Vrms ,Isat ;(Ta=25 ℃).
3>.Isat[1],Isat[2]&Isat[3]: DC current that will cause inductance to drops approximately by 20% ;
4>. Irms: DC current for an approximate temperature rise of 40℃ without core loss,.Derating is necessary for AC currents. PCB pad layout,trace thickness and width,air-flow and proximity of other heat generating components will affect the temperature rise. It is recommended the part temperature not exceed 130°C under worst case operating conditions verified in the end application.
5>.The nominal DCR is measured from point "a" to point"b",as shown above on the mechanical drawing.

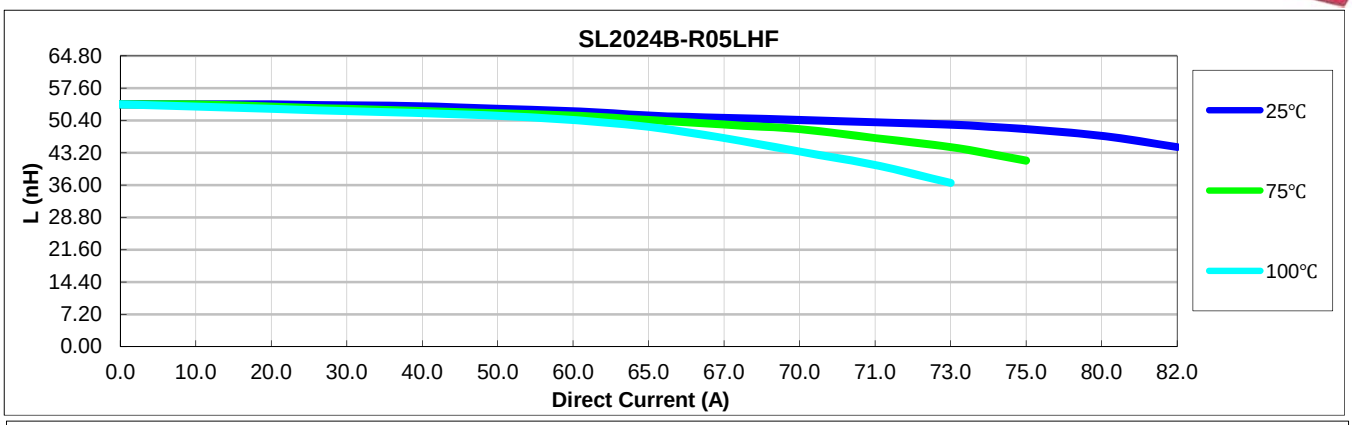
4. Inductance Characteristics (Inductance vs. Current):

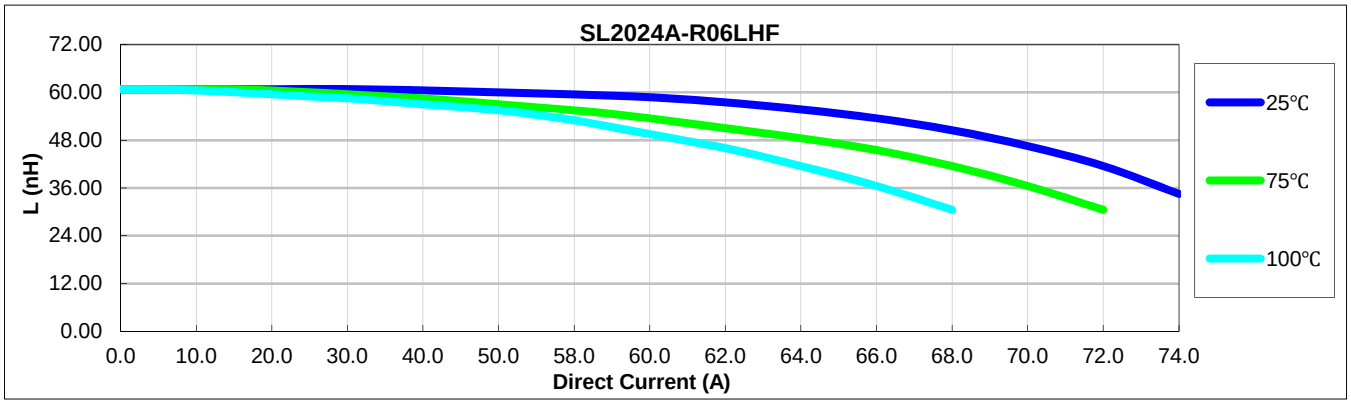


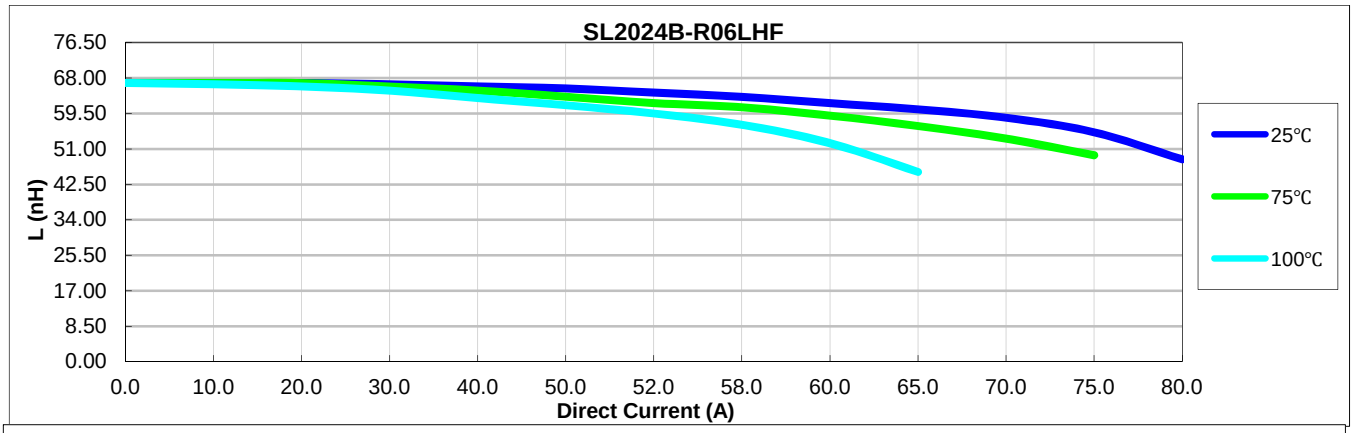
US 1 914 347 2474 ●Taiwan 886 972 022 388 ●Shenzhen 86 755 8418 6263 ●Shanghai 86 21 5424 5141 ●HK 852 9688 9767
Sales@inter-technical.com www.inter-technical.com , Rev.B, Aug.7, 2013

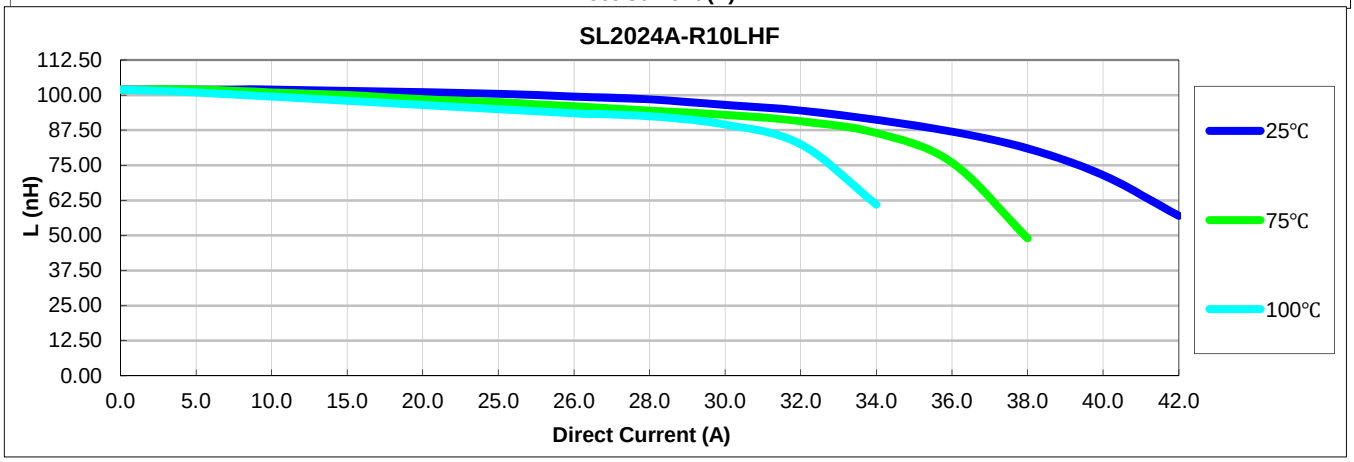
SL2024 Series

Inductance vs. Current









US 1 914 347 2474 ●Taiwan 886 972 022 388 ●Shenzhen 86 755 8418 6263 ●Shanghai 86 21 5424 5141 ●HK 852 9688 9767
Sales@inter-technical.com www.inter-technical.com , Rev.B, Aug.7, 2013