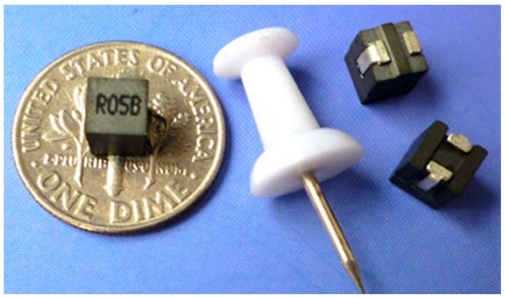
SL2026 Series

1. Features:

· Ferrite based SMD Inductor with lower core loss.
· Inductance Range:50.0nH to 150.0nH. Custom values are welcomed.
· High current output chokes, upto 72.0 Amp approx. 20% roll off.
· Low Profile 6.60mm Max. height .
· Foot Print 5.20 x 5.00 mm Max.
· 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: 800 pcs , 13" Reel .



2. Mechanical Dimension(Unit:mm):

Series Name	A Max.	B Max.	C Max.	D Max.	E Nom.	F Nom.	G Nom.
SL2026	5.00	5.00	6.60	5.20	2.40	2.00	1.20
SL2026B	5.00	5.00	6.60	5.20	2.40	2.00	1.40

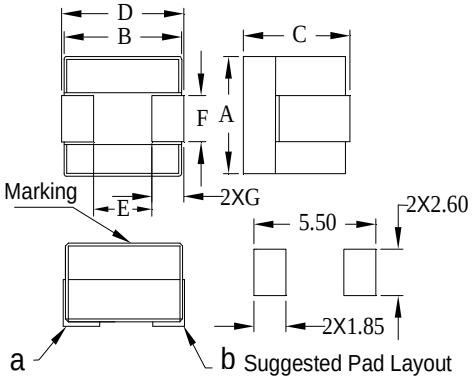


Fig 1

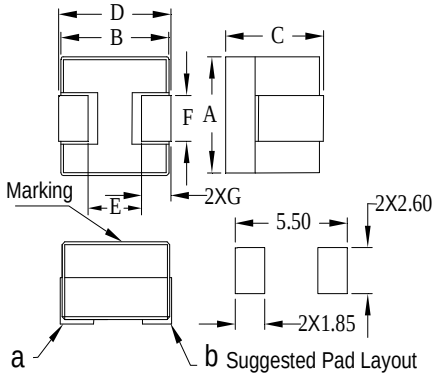


Fig 2

3. Electrical Characteristic of SL2026 Series:

Part Number	Inductance (nH) ±15% or 20%	DCR (mΩ) ± 7.0%	Isat[1] (A) @25℃	Isat[2] (A) @45℃	Isat[3] (A) @100℃	Irms[4] (A) @25℃	Fig
SL2026B-R05LHF	50 , 15%	0.27	72.00	70.00	66.00	53.00	2
SL2026-R055LHF	55 , 15%	0.47	68.00	66.00	63.00	40.00	1
SL2026B-R07LHF	70 , 15%	0.27	60.00	54.00	50.00	53.00	2
SL2026-R08LHF	80 , 15%	0.47	52.00	50.00	43.00	40.00	1
SL2026-R10MHF	100 , 20%	0.47	35.00	32.00	29.00	40.00	1
SL2026B-R10MHF	100 , 20%	0.27	35.00	32.00	29.00	53.00	2
SL2026B-R11MHF	110 , 20%	0.27	32.00	30.00	26.00	53.00	2
SL2026-R15MHF	150 , 20%	0.47	22.00	20.00	17.00	40.00	1

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 drop approximately by 20%.

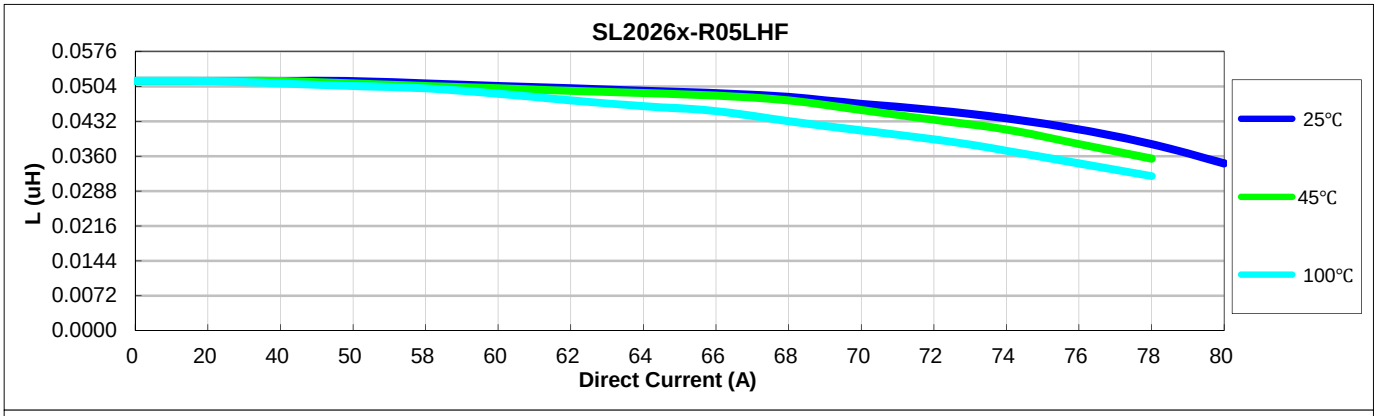
4>. Irms: DC current for an approximate temperature rise of 40℃ without core loss,.Derating is necessary for AC currents. PCB pad layout, trace thickness and width, air-flow and proximity of other heat generating components will affect the temperature rise. It is recommended the part temperature not exceed 130°C under worst case operating conditions verified in the end application.

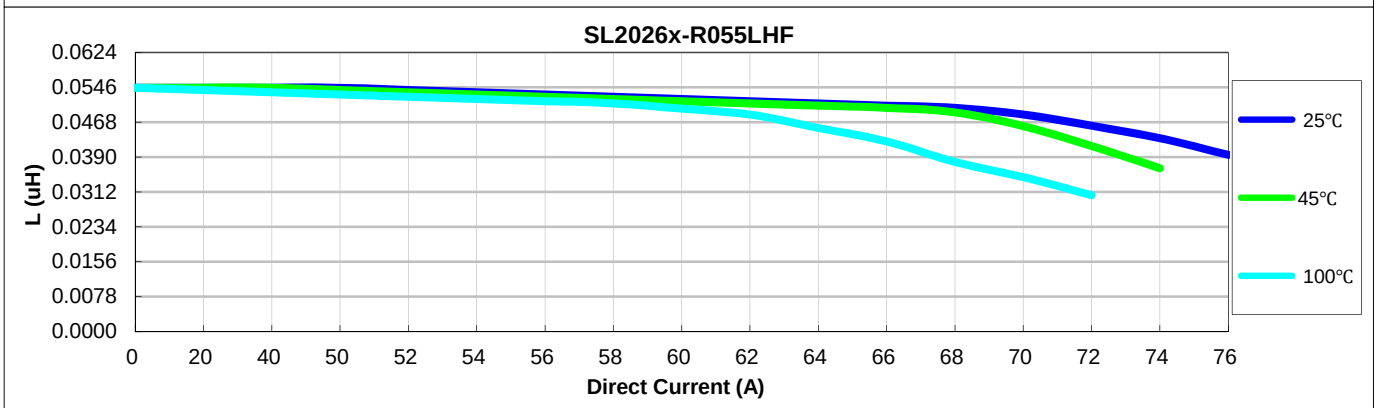
5>.The nominal DCR is measured from point "a" to point"b",as shown above on the mechanical drawing.

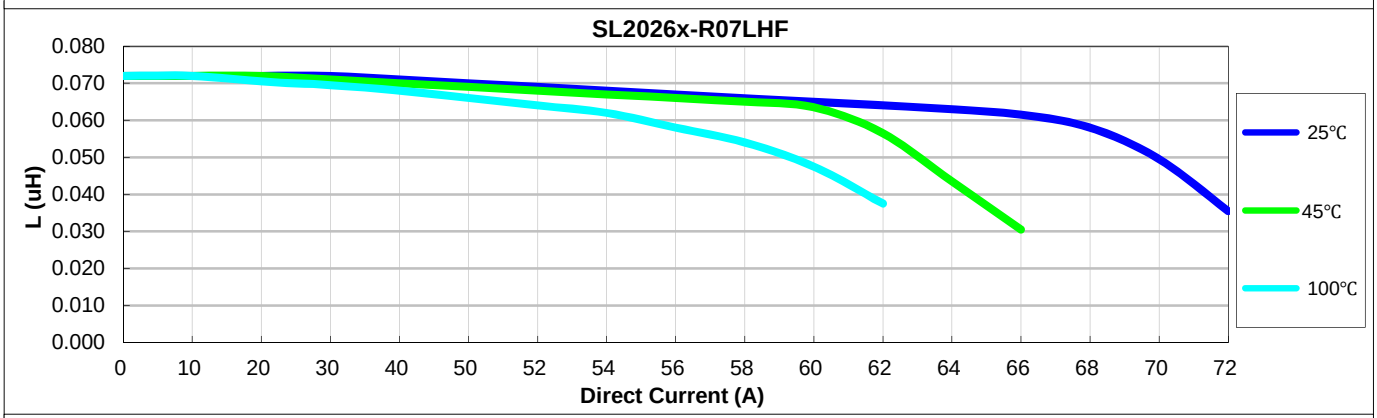
4. Inductance Characteristics (Inductance vs. Current):

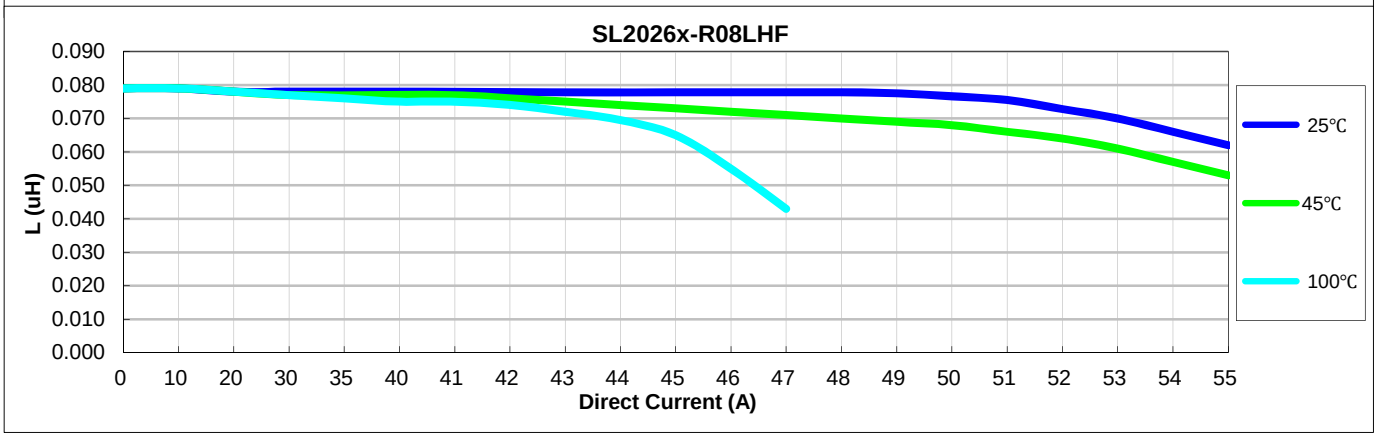
SL2026 Series

Inductance vs. Current









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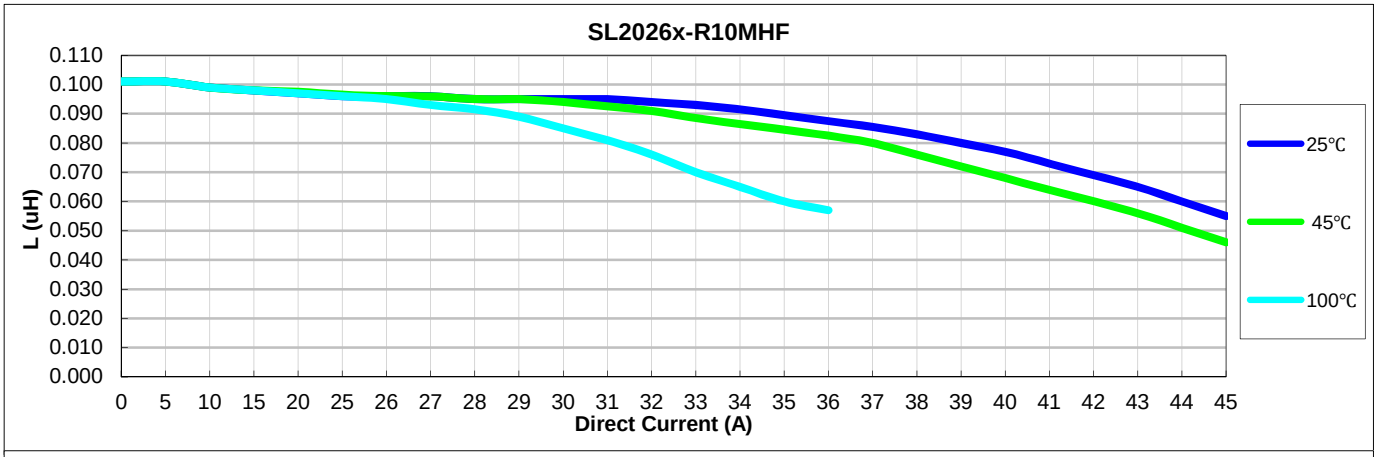
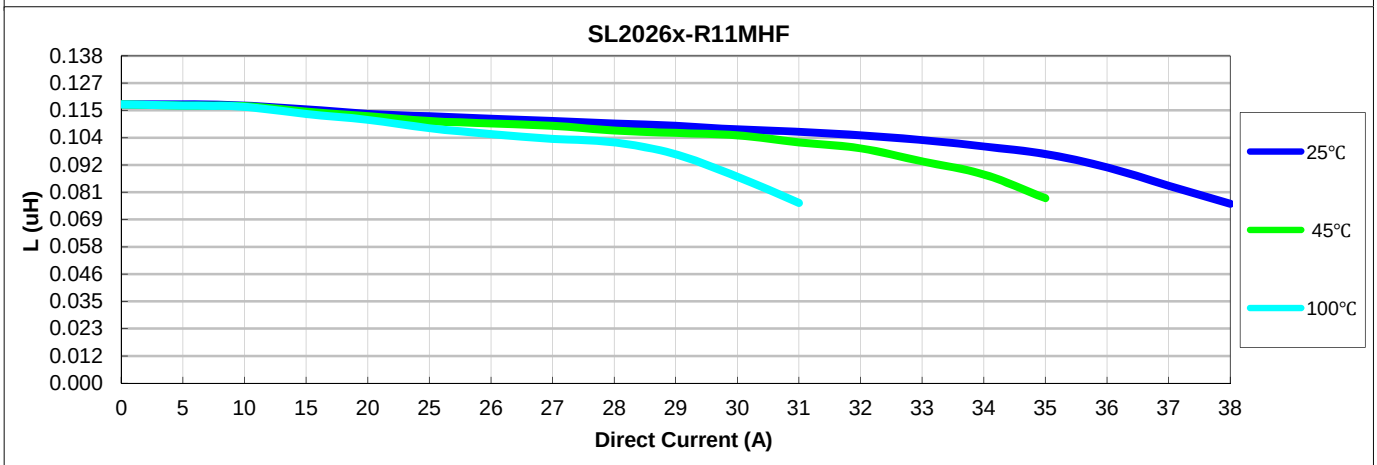
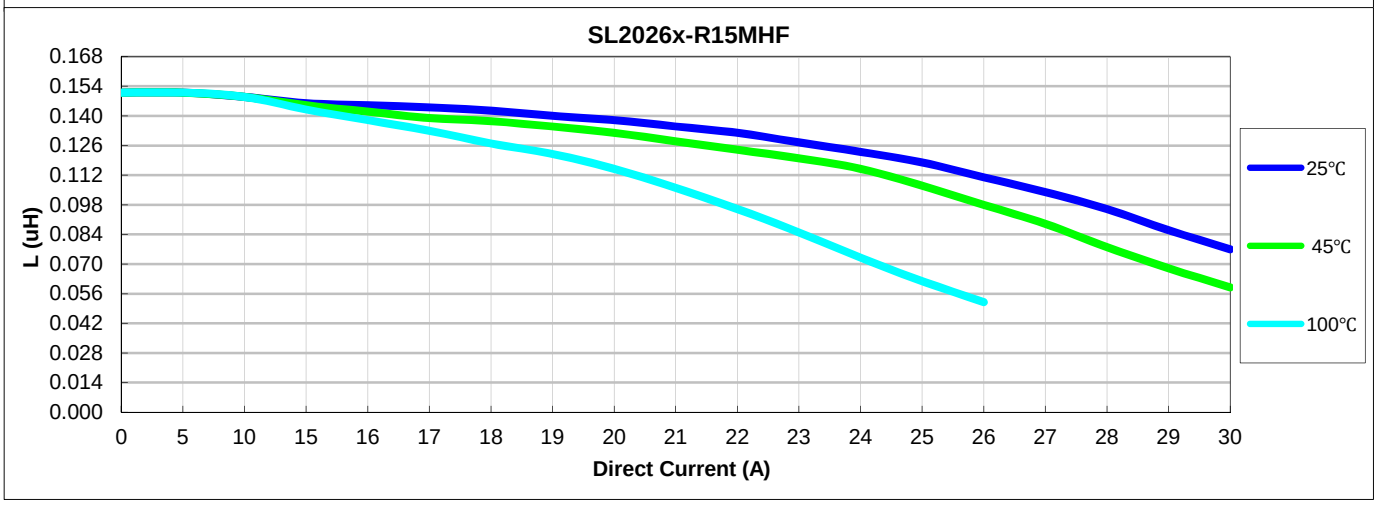
Inductance vs. Current







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