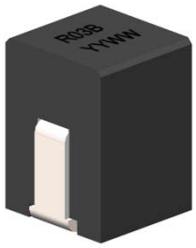
SL2026 Series

1. Features of SL2026 Series:



- Ferrite based SMD inductor with lower core loss.
- Inductance range: 37.0 nH to 200.0 nH , custom values are welcomed.
- High current output chokes , up to 83.0 Amp with approx. 20% roll off.
- Low Profile 6.60mm max height .
- 5.20 x 5.50 mm Foot Print.
- Ideal for Buck Converter, VRM & High Density Board Design.
- Operating frequency of up to 5.0MHz.
- Operating temperature range of -55° C to + 130° C.
- RoHS & HF compliant.
- T & R Qty's: 800pcs, 13" Reel.

2. Electrical Characteristics 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
SL2026B-R08LHF	80 , 15%	0.27	52.00	50.00	43.00	53.00	2
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
SL2026B-R15MHF	150 , 20%	0.27	22.00	20.00	17.00	53.00	2
SL2026B-R20MHF	200 , 20%	0.27	16.00	15.00	12.00	53.00	2

3. Mechanical Dimension (Uint : 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

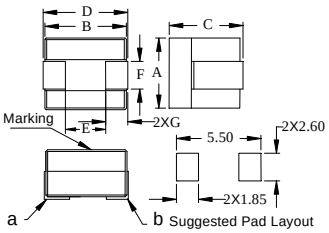


Fig 1

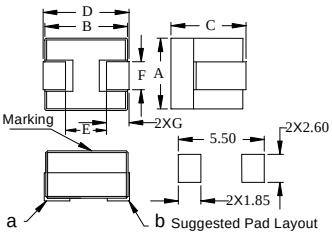


Fig 2

Notes:

1. Open Circuit Inductance (OCL) test condition: 100KHz, 0.1Vrms, 0A DC at 25℃.
2. L @ Isat and L @ Irms Test condition: 100KHz, 0.1Vrm (Ta=25℃).
3. The nominal DCR is measured from point "a" to point "b" as shown above in the mechanical drawing (Ta=25℃).
4. Isat1, Isat2 & Isat3: DC current that will cause inductance to drop approximately by 20%.
5. Irms: DC current for an approximate temperature rise of 40℃ without core loss.
6. 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.
6. It is recommended the part temperature not exceed 130° C under worst case operating conditions as verified in the end application.

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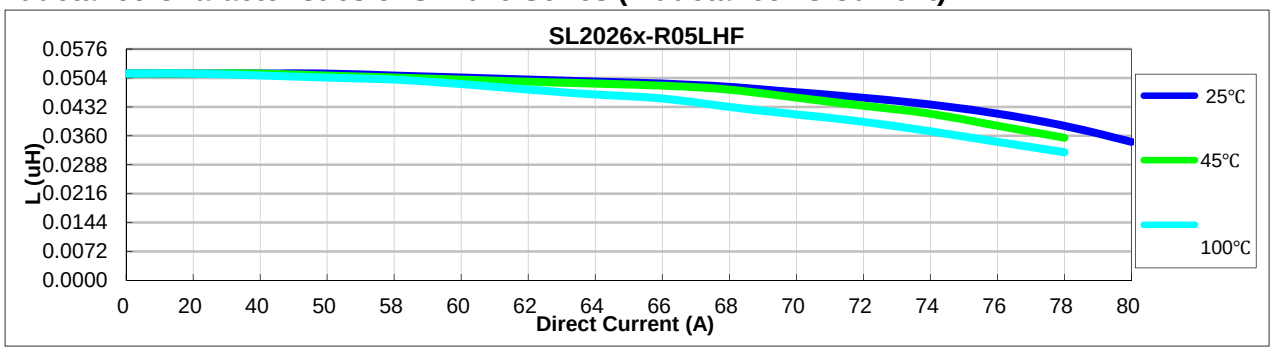
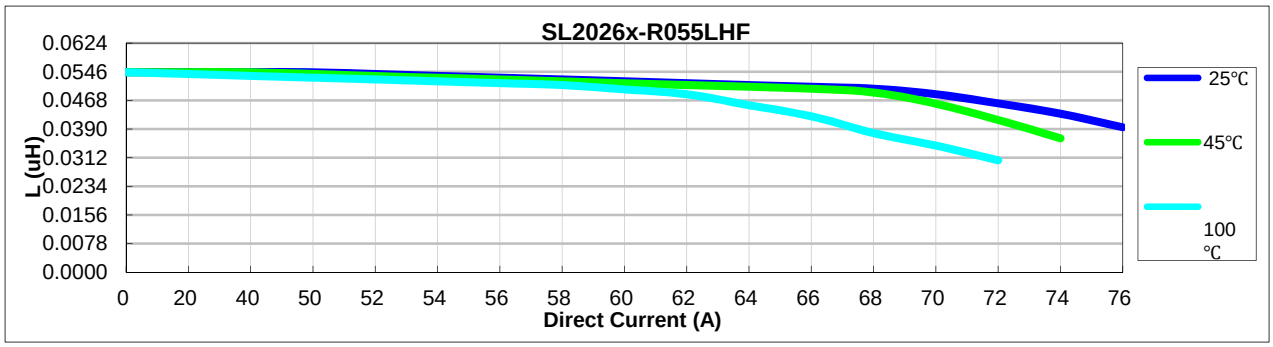
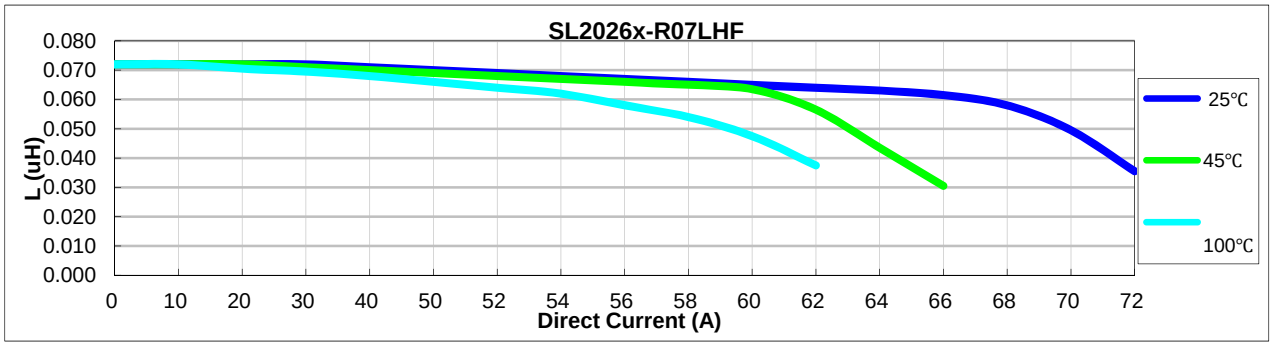
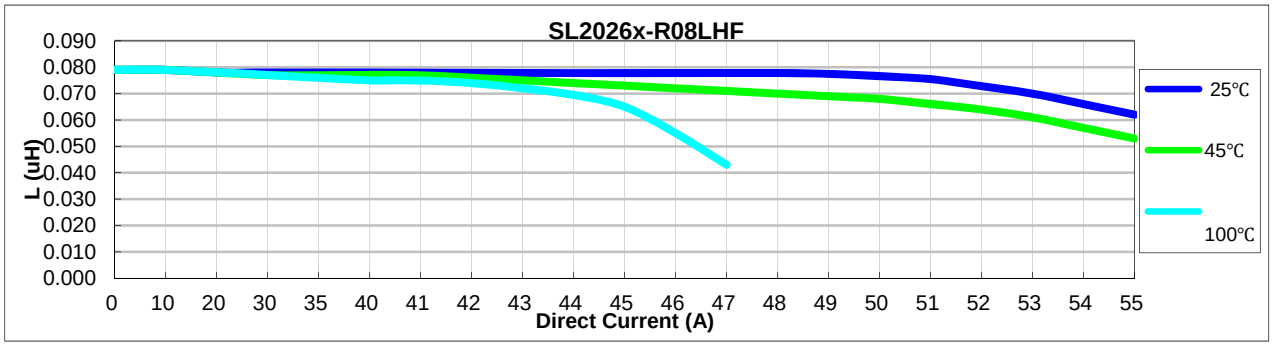
4. Inductance Characteristics of SL2026 Series (Inductance vs Current):









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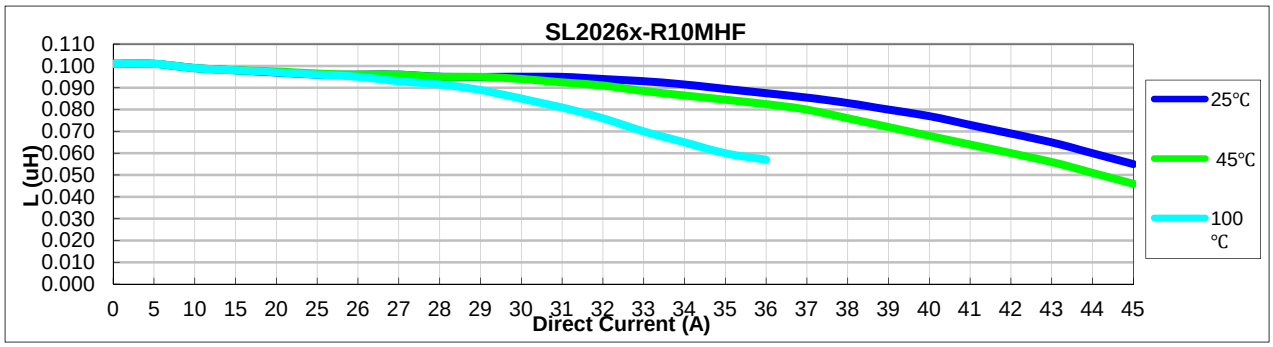

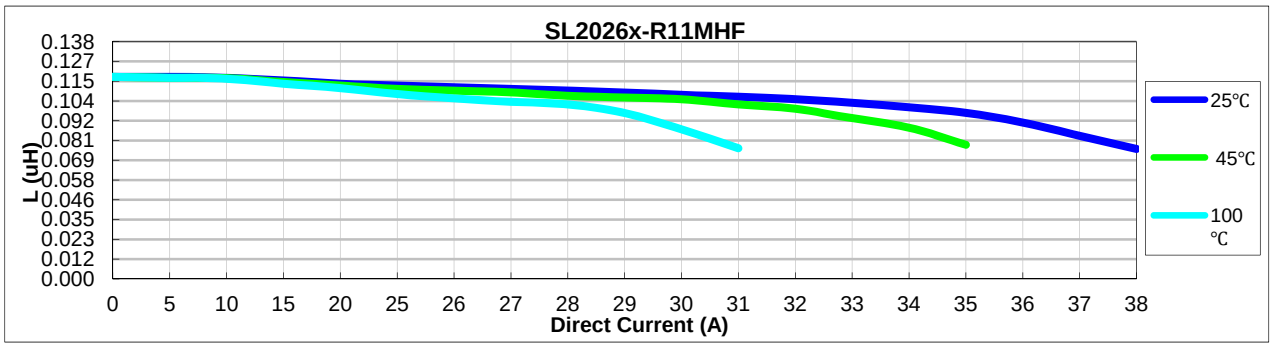

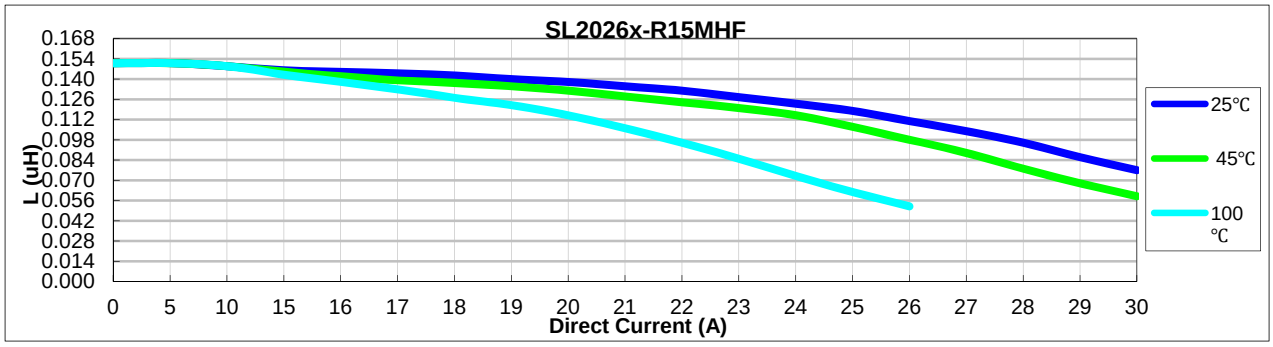

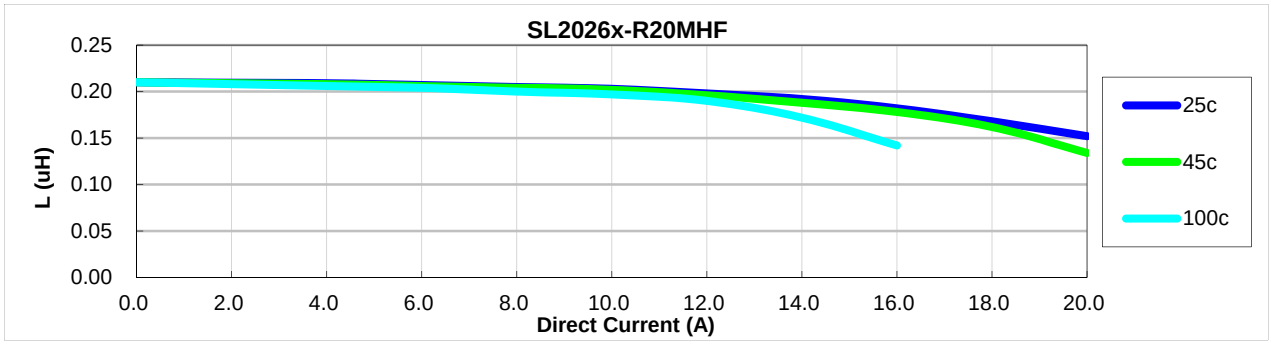

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