



SL5415 Series



1. Features of SL5415 Series:

- Ferrite based SMD inductor with lower core loss.
- Inductance range: 70.0 nH to 300.0 nH , custom values are welcomed.
- High current output chokes , up to 105.0 Amp with approx. 20% roll off.
- Low profile 4.20 / 4.10 / 4.00 mm Max. height.
- 13.80 x 7.80 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: 1200pcs, 13" Reel.

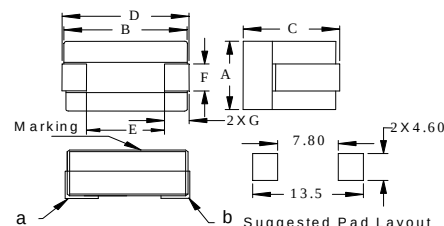


2. Electrical Characteristics of SL5415 Series:

ITG Part Number	OCL ¹ (nH) ± 10%,15% or 20%	DCR ³ (mΩ) ± 7.0% or 10%	Isat1 ⁴ (A) @25°C	Isat2 ⁴ (A) @45°C	Isat3 ⁴ (A) @100°C	Irms ⁵ (A) @25°C	Dim. C (mm) Max.
SL5415C-R07KHF	70, 10%	0.230, 10.0%	105.00	101.00	88.00	50.00	4.20
SL5415C-R08KHF	80, 10%	0.230, 10.0%	91.00	88.00	79.00	50.00	4.20
SL5415C-R10KHF	100, 10%	0.230, 10.0%	73.00	71.00	62.00	50.00	4.10
SL5415A-R11KHF	110, 10%	0.200, 7.0%	68.00	66.00	55.00	53.00	4.10
SL5415B-R11KHF	110, 10%	0.225, 7.0%	68.00	66.00	55.00	50.50	4.10
SL5415C-R11KHF	110, 10%	0.230, 10.0%	68.00	66.00	55.00	50.00	4.10
SL5415A-R12LHF	120, 15%	0.200, 7.0%	61.00	60.00	53.00	53.00	4.00
SL5415B-R12LHF	120, 15%	0.225, 7.0%	61.00	60.00	53.00	50.50	4.00
SL5415C-R12LHF	120, 15%	0.230, 10.0%	61.00	60.00	53.00	50.00	4.00
SL5415A-R14LHF	140, 15%	0.200, 7.0%	53.00	52.00	45.00	53.00	4.00
SL5415B-R14LHF	140, 15%	0.225, 7.0%	53.00	52.00	45.00	50.50	4.00
SL5415C-R14LHF	140, 15%	0.230, 10.0%	53.00	52.00	45.00	50.00	4.00
SL5415A-R18LHF	180, 15%	0.200, 7.0%	42.00	40.00	37.00	53.00	4.00
SL5415B-R18LHF	180, 15%	0.225, 7.0%	42.00	40.00	37.00	50.50	4.00
SL5415C-R18LHF	180, 15%	0.230, 10.0%	42.00	40.00	37.00	50.00	4.00
SL5415A-R24MHF	240, 20%	0.200, 7.0%	30.00	29.00	26.00	53.00	4.00
SL5415B-R24MHF	240, 20%	0.225, 7.0%	30.00	29.00	26.00	50.50	4.00
SL5415C-R24MHF	240, 20%	0.230, 10.0%	30.00	29.00	26.00	50.00	4.00
SL5415A-R30MHF	300, 20%	0.200, 7.0%	21.00	20.00	19.00	53.00	4.00
SL5415B-R30MHF	300, 20%	0.225, 7.0%	21.00	20.00	19.00	50.50	4.00
SL5415C-R30MHF	300, 20%	0.230, 10.0%	21.00	20.00	19.00	50.00	4.00

3. Mechanical Dimension of SL5415 Series:

A Max.	B Max.	C Max.	D Max.	E Ref.	F Nom.	G Nom.
7.80	12.70	see table above	13.80	8.20	4.10	2.50



Third Angle Projection:



● New York 1 914 347 2474 ● Taipei 886 2 2698 8669 ● Kaohsiung 886 7 350 2275
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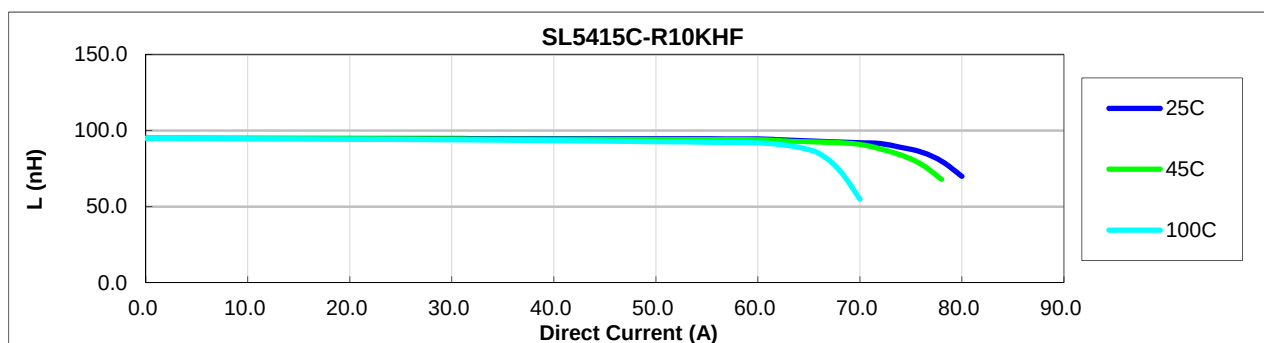
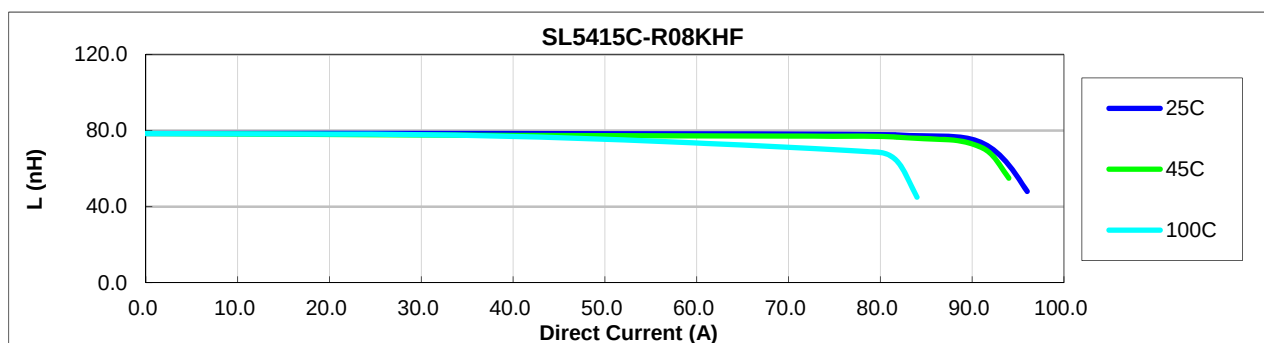
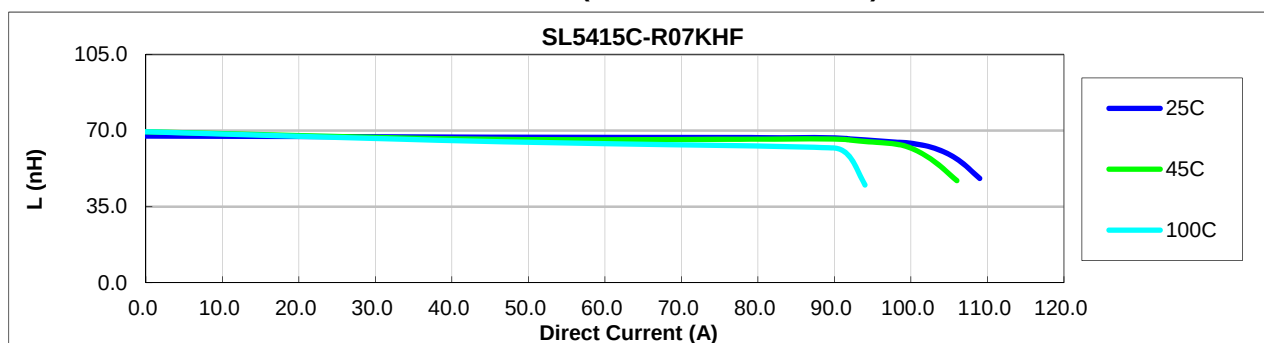
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Notes:

1. Open Circuit Inductance (OCL) test condition: 100KHz,0.1Vrms,0Adc at 25°C.
2. L @ Isat and L @ Irms Test condition: 100KHz,1.0Vrms (Ta=25°C).
3. The nominal DCR is measured from point "a" to point "b",as shown above on the mechanical drawing (Ta=25°C).
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°C 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.
6. It is recommended the part temperature not exceed 130° C under worst case operating conditions as verified in the end application.

4. Inductance Characteristics of SL5415 Series (Inductance vs Current):

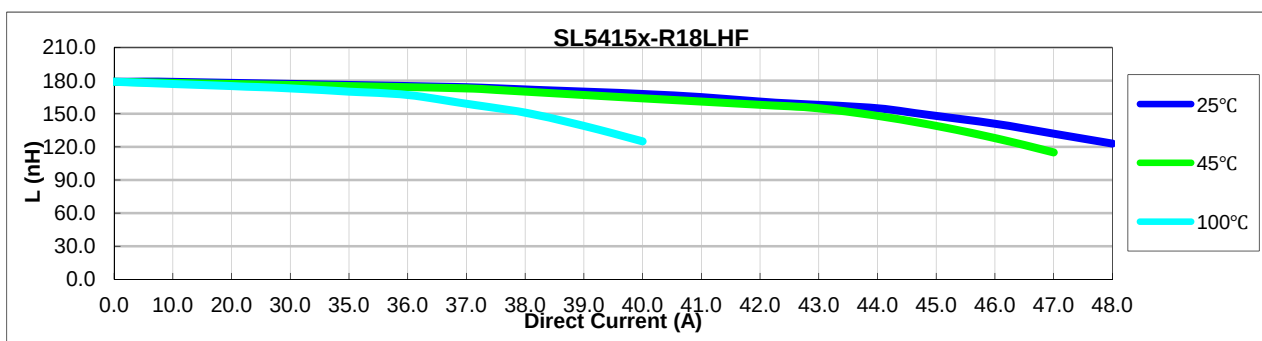
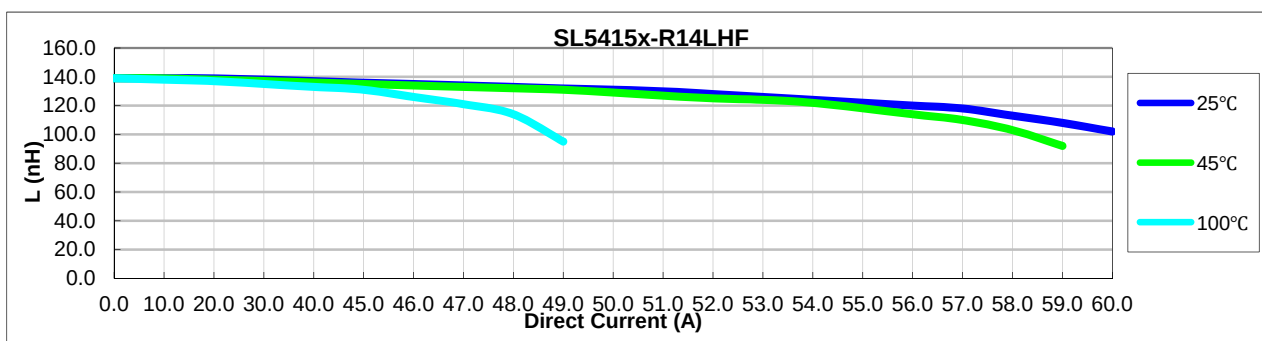
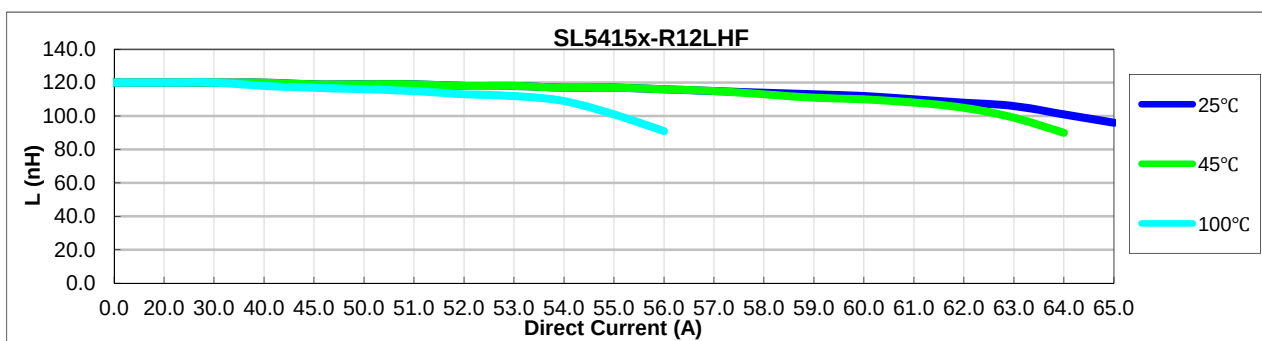
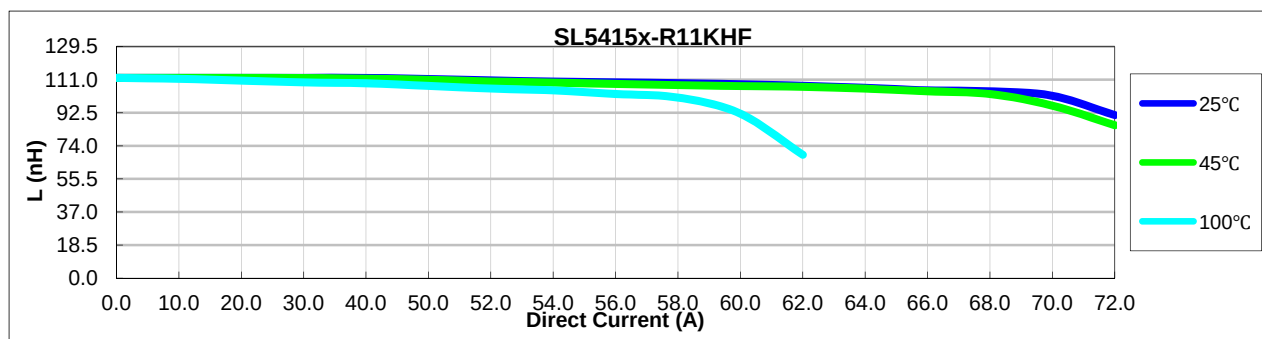


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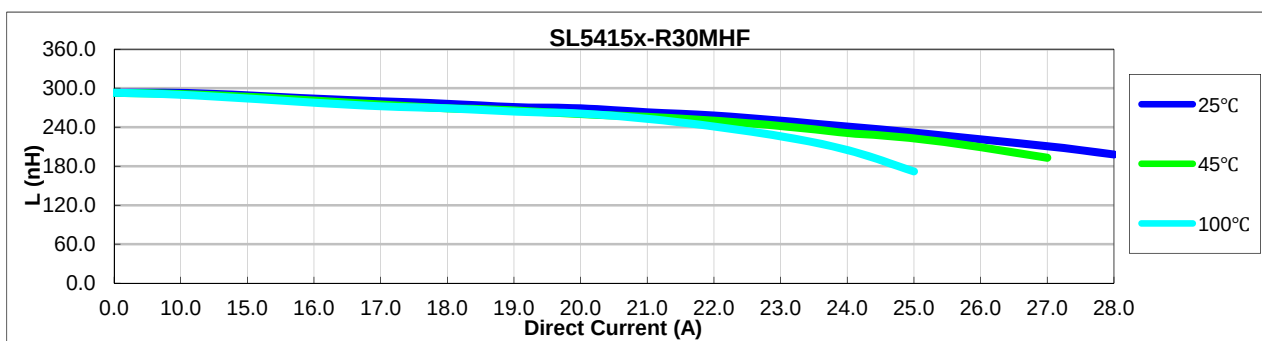
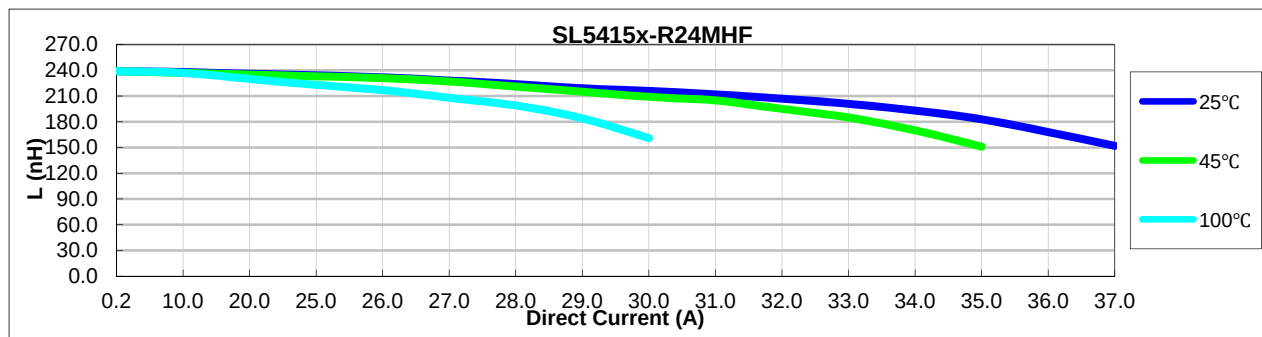


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