



SL323211 Series



1. Features of SL323211 Series :

- Ferrite based SMD inductor with lower core loss.
- Inductance Range: 45.0nH to 220.0nH, Custom values are welcomed.
- High current output chokes, up to 180.0 Amp with approx. 20% roll off.
- Low Profile 8.30 mm Max. height .
- Foot Print 8.20 x 11.00 mm Max .
- Ideal for Buck Converter, VRM & High Density Board Design.
- Operating frequency up to 5.0 MHz application.
- Operating Temperature Range -55 °C to + 130 °C, RoHs & HF compliance .
- T & R Qtys: 300 pcs , 13" Reel ;

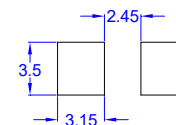
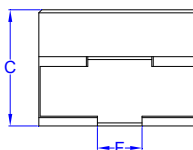
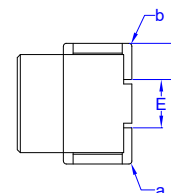
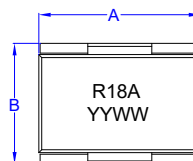


2. Electrical Characteristic of SL323211 Series:

Part Number	OCL ¹		DCR ³ (mΩ) ± 5.0%	Isat1 ⁴ (A) @25°C	Isat2 ⁴ (A) @75°C	Isat3 ⁴ (A) @100°C	Irms ⁵ (A) @25°C
	(nH)						
	± 10% or ± 15%						
SL323211A-45L	45.00	± 15%	0.063	180.00	150.00	140.00	106.00
SL323211A-R105KHF	105.00	± 10%	0.063	81.00	77.00	72.00	106.00
SL323211A-R12KHF	120.00	± 10%	0.063	72.00	68.00	63.00	106.00
SL323211A-R15KHF	150.00	± 10%	0.063	55.00	49.00	45.00	106.00
SL323211A-R18KHF	180.00	± 10%	0.063	42.00	36.00	32.00	106.00
SL323211A-R22KHF	220.00	±10%	0.063	30.00	26.00	23.00	106.00

3. Mechanical Dimension(Unit : mm):

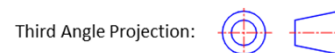
A	B	C	E	F	G
Max.	Max.	Max.	Nom.	Nom.	Nom.
11.00	8.20	8.30	2.80	3.00	2.40



Suggested Pad Layout

Notes:

1. Open Circuit Inductance (OCL) test condition:100KHz,0.1Vrms,0Adc , at 25 °C.
2. L @ Isat and L @ Irms Test condition:100KHz,0.1Vrms (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. It is recommended the part temperature not exceed 130 °C under worst case operating conditions verified in the end application.



● New York 1 914 347 2474 ● Taipei 886 2 2698 8669 ● Kaohsiung 886 7 350 2275
● Japan 81 568 85 2830 ● Shenzhen 86 755 8418 6263 ● Shanghai 86 21 5424 5141 ● Hong Kong 852 9688 9767
● sales@ITG-Electronics.com ● www.ITG-Electronics.com Revision D.0: May 31, 2024

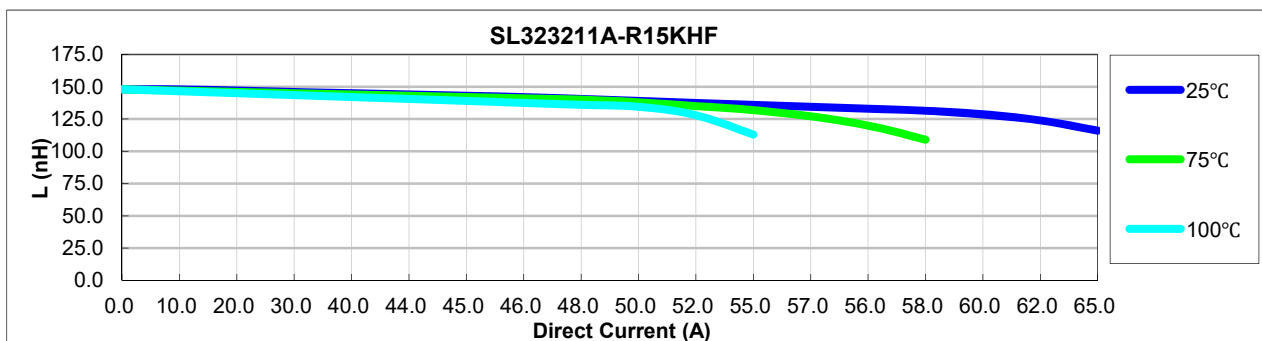
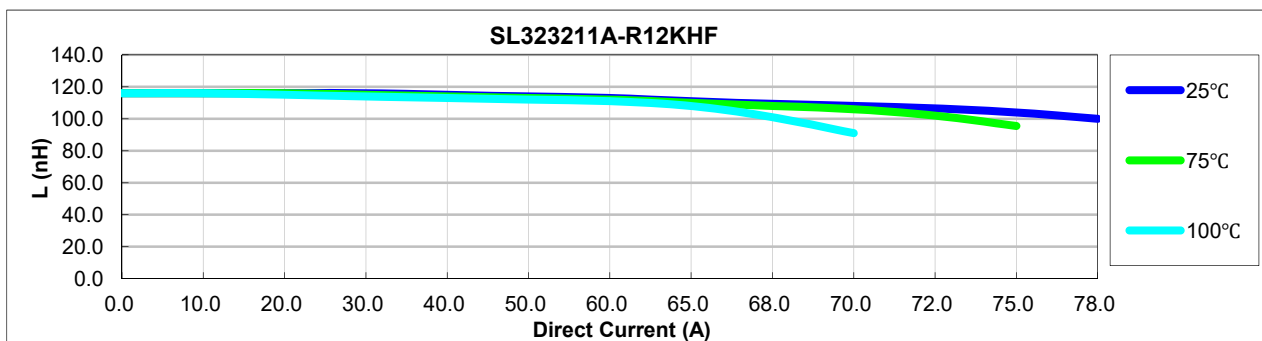
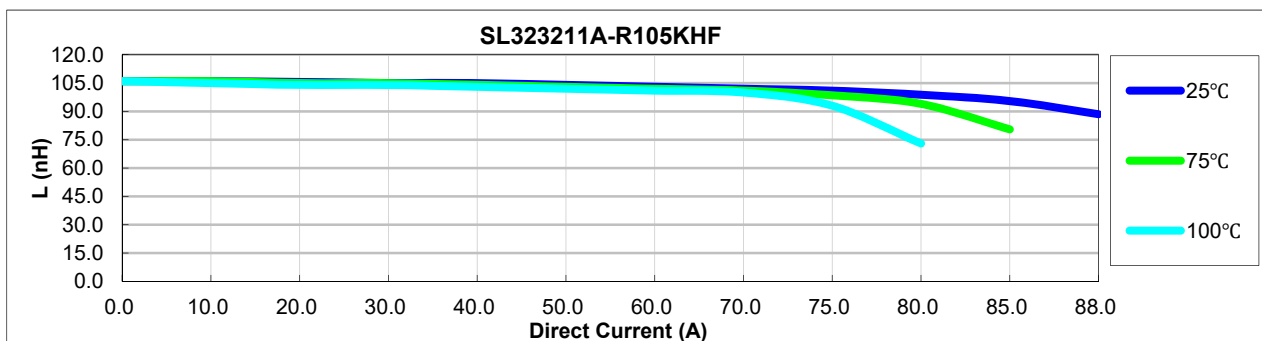
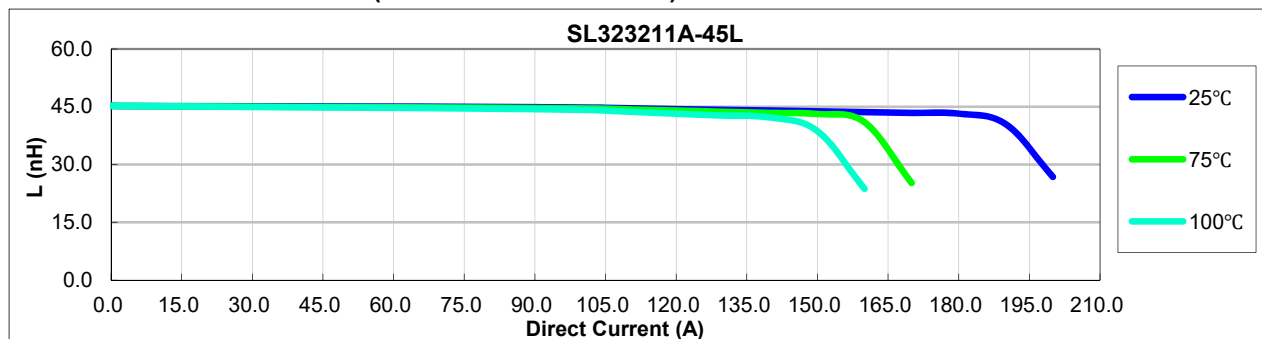
*Due to continuous product improvement, all specifications are subject to change without prior notice. Kindly contact an ITG field application engineer or a sales representative prior to purchase.



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4. Inductance Characteristics (Inductance vs. Current):



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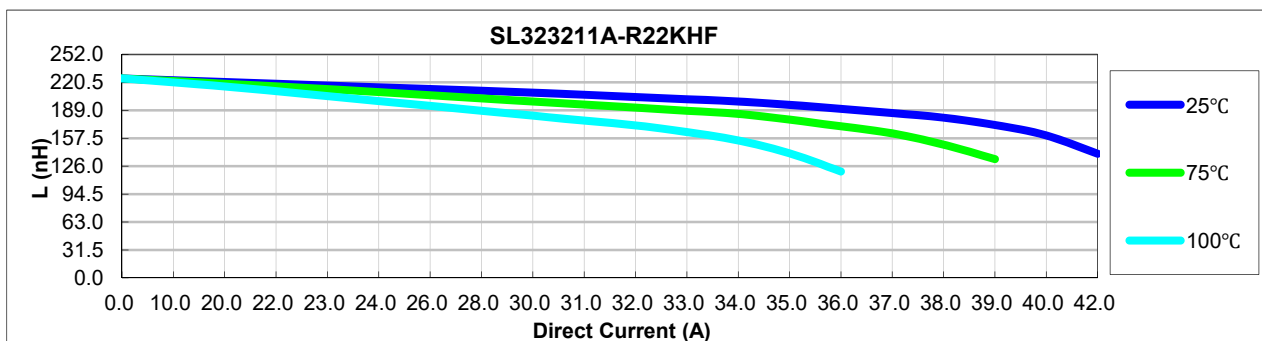
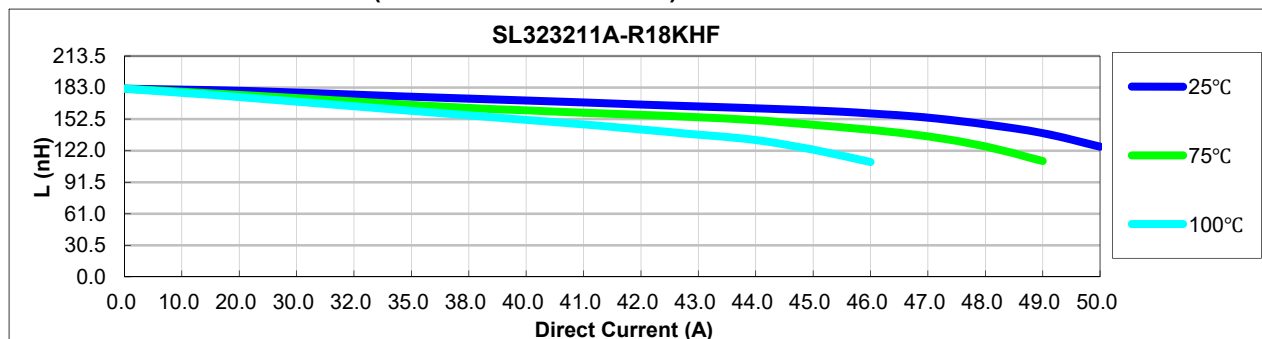
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