

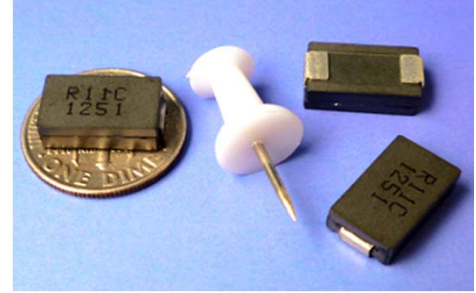


SL5415 Series



1. Features:

- Ferrite based SMD Inductor with lower core loss.
- Inductance Range:110nH to 300nH. Custom values are welcomed.
- High current output chokes, upto 68.0 Amp with approx. 20% roll off.
- Low Profile 4.0mm Max. height .
- Foot Print 13.8 x 7.8 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 Qty: 1200 pcs , 13" Reel ;

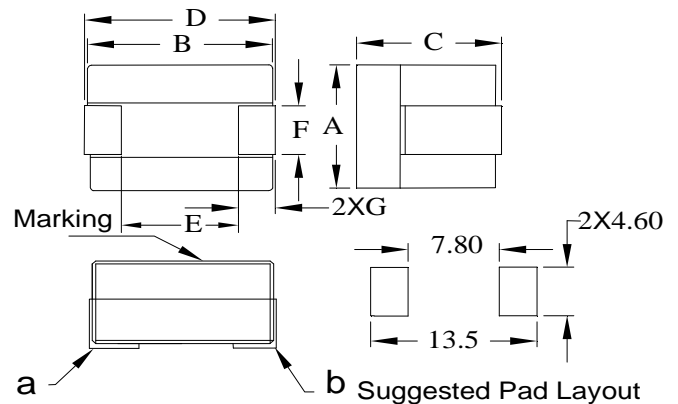


2. Electrical Characteristic of SL5415 Series:

Part Number	Inductance (nH)	DCR (mΩ)	Isat ¹ (A)	Isat ² (A)	Isat ³ (A)	Irms (A)	C (mm)
	10%,15% or 20%	± 7.0% or 10%	@25°C	@45°C	@100°C	@25°C	Max.
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	125 , 15%	0.200 , 7.0%	61.00	60.00	53.00	53.00	4.00
SL5415B-R12LHF	125 , 15%	0.225 , 7.0%	61.00	60.00	53.00	50.50	4.00
SL5415C-R12LHF	125 , 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(Unit:mm):

A	B	C	D	E	F	G
Max.	Max.	Max.	Max.	Ref.	Nom.	Nom.
7.80	12.70	See Table	13.80	8.20	4.10	2.50



Note:

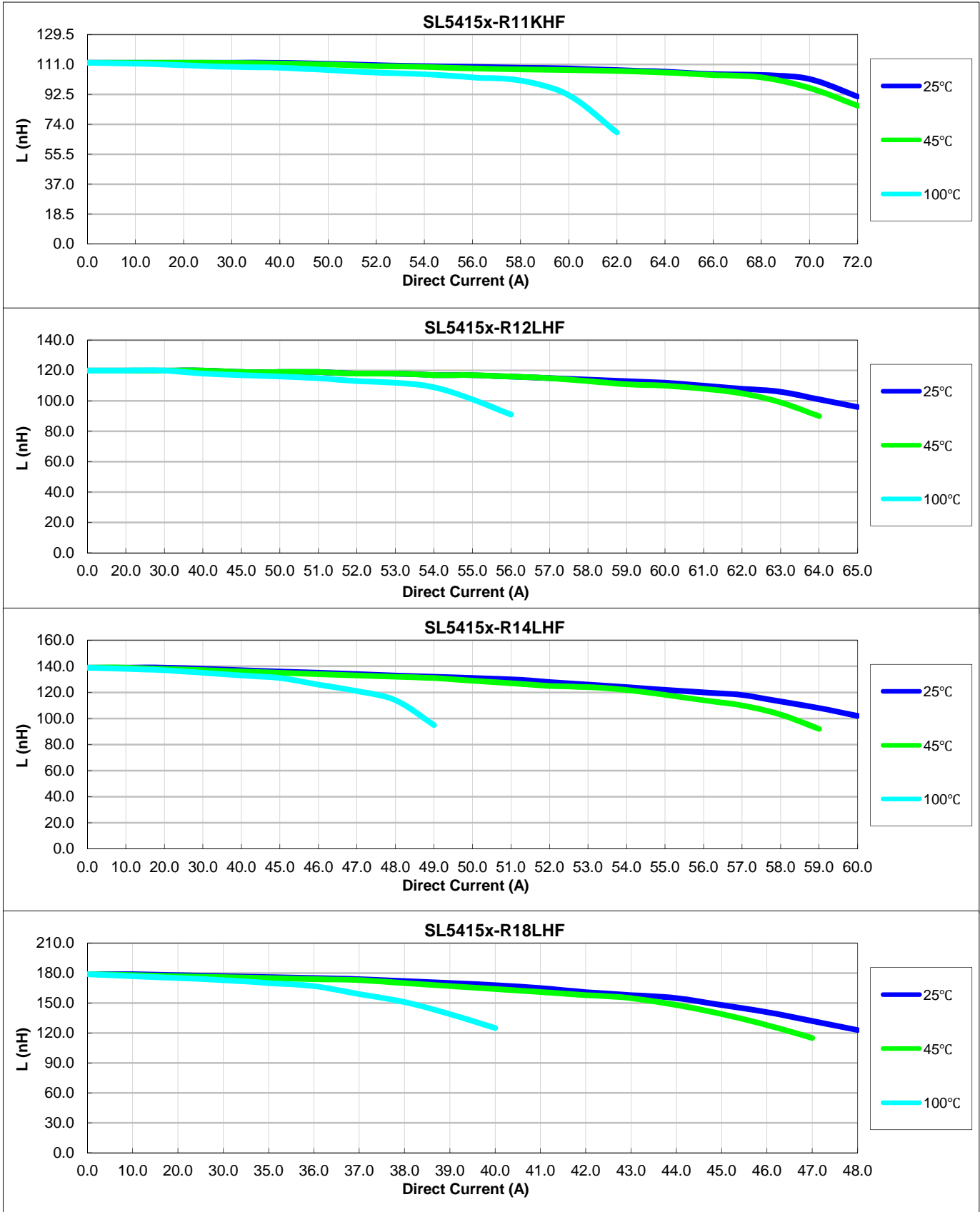
- 1>.Open Circuit Inductance
- 2>.Full Load Inductance (FLL) Test condition:100KHz,0.1Vrms ,Isat ;(Ta=25 °C).
- 3>.Isat¹,Isat² ,Isat³& Isat⁴ : DC current that will cause inductance to drops approximately by 20% ;
- 4>. Irms: DC current for an approximate temperature rise of 40°C without core loss,.Derating 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.
- 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):



SL5415 Series

Inductance vs. Current





SL5415 Series

Inductance vs. Current

