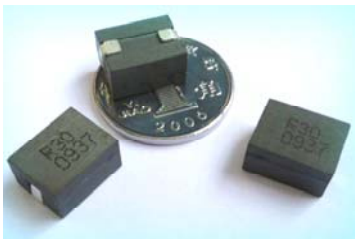
SL4127 Series

1. Features:



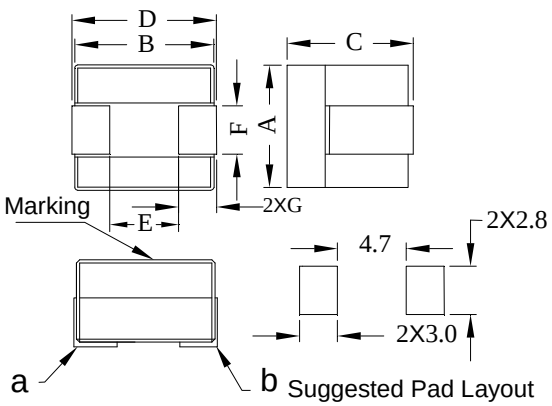
· Ferrite based SMD Inductor with lower core loss.
· Inductance Range:140nH to 400nH. Custom values are welcomed.
· High current output chokes, upto 67 Amp with approx. 20% roll off.
· Low Profile 6.8mm Max. height .
· Foot Print 10.41 x 8.0 mm Max.
· Ideal for Buck Converter, VRM & High Density Board 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. Electrical Characteristic of SL4127 Series:

Part Number	Inductance (uH) ±10% or 15%	DCR (mΩ) ± 7%	Isat[1] (A) @25℃	Isat[2] (A) @45℃	Isat[3] (A) @100℃	Irms[4] (A) @25℃
SL4127A-R14KHF	0.14 , 10%	0.32	67.0	64.0	58.0	48.0
SL4127B-R14KHF	0.14 , 10%	0.28	67.0	64.0	58.0	51.0
SL4127A-R17KHF	0.17 , 10%	0.32	57.0	54.0	46.0	48.0
SL4127B-R17KHF	0.17 , 10%	0.28	57.0	54.0	46.0	51.0
SL4127A-R18KHF	0.18 , 10%	0.32	56.0	53.0	45.0	48.0
SL4127B-R18KHF	0.18 , 10%	0.28	56.0	53.0	45.0	51.0
SL4127A-R21KHF	0.21 , 10%	0.32	45.0	44.0	38.0	48.0
SL4127B-R21KHF	0.21 , 10%	0.28	45.0	44.0	38.0	51.0
SL4127A-R30LHF	0.30 , 15%	0.32	30.0	29.0	25.0	48.0
SL4127B-R30LHF	0.30 , 15%	0.28	30.0	29.0	25.0	51.0
SL4127A-R40LHF	0.40 , 15%	0.32	21.0	20.0	18.0	48.0
SL4127B-R40LHF	0.40 , 15%	0.28	21.0	20.0	18.0	51.0

3. Mechanical Dimension(Unit:mm):

A Max.	B Max.	C Max.	D Max.	E Nom.	F Nom.	G Nom.
8.00	10.25	6.80	10.41	5.40	2.20	2.50



Note:

1>.Open Circuit Inductance (OCL) test condition:100KHz,0.1Vrms,0Adc ,at 25℃.

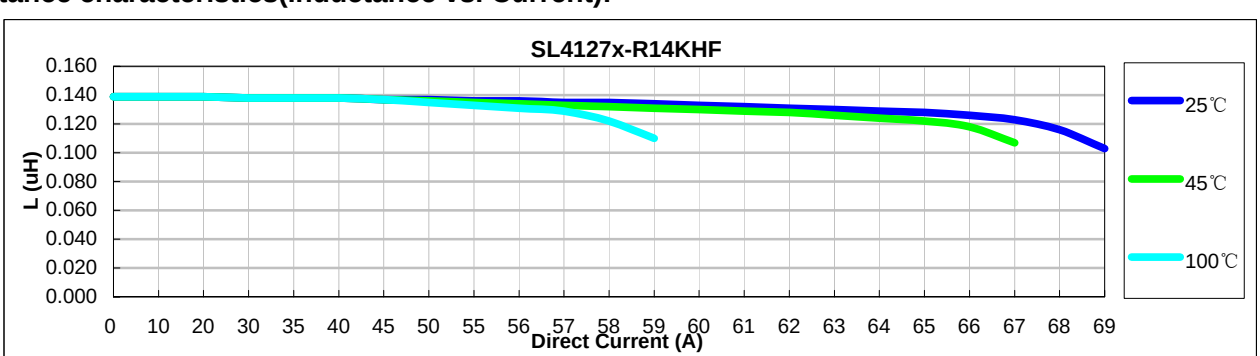
2>.Full Load Inductance (FLL) Test condition:100KHz,0.1Vrms ,Isat;(Ta=25℃).

3>.Isat[1],Isat[2] & Isat[3]: DC current that will cause inductance to drop approximately by 20% ;(Ta=25℃).

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):



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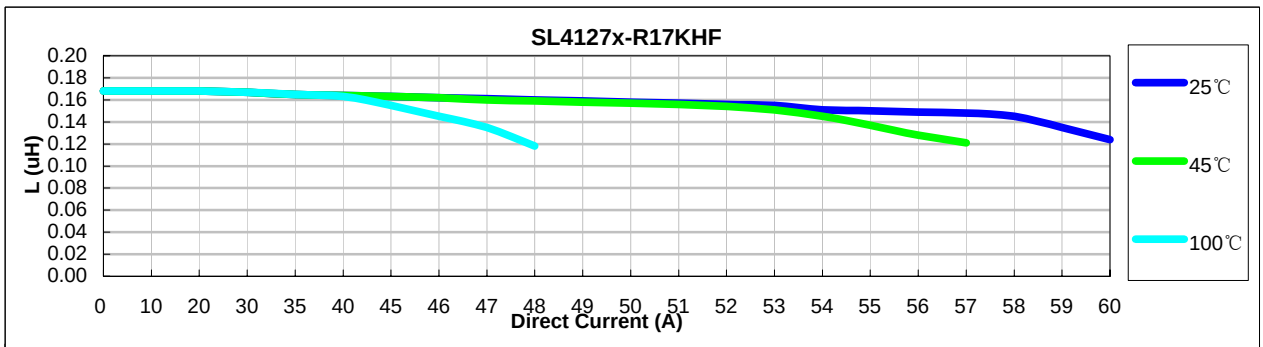
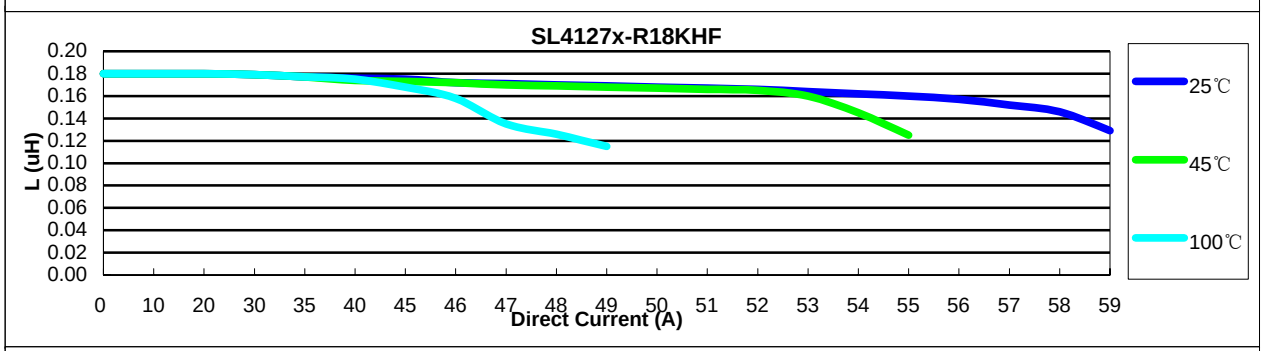
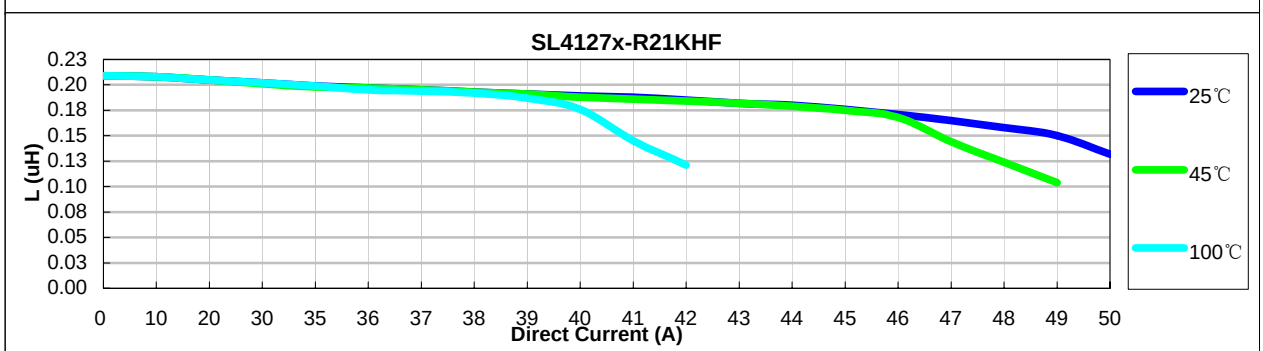
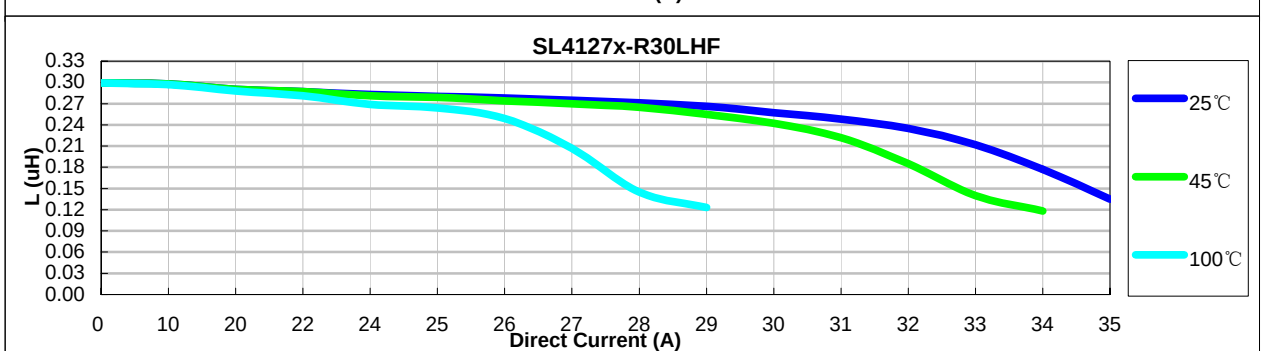
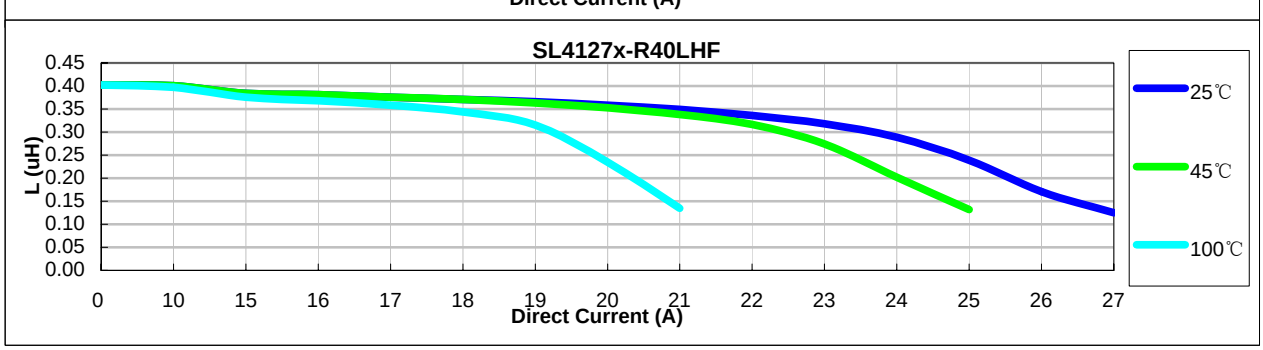
Inductance vs. Current











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