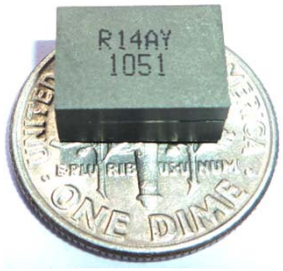
SL4322 Series

1. Features:



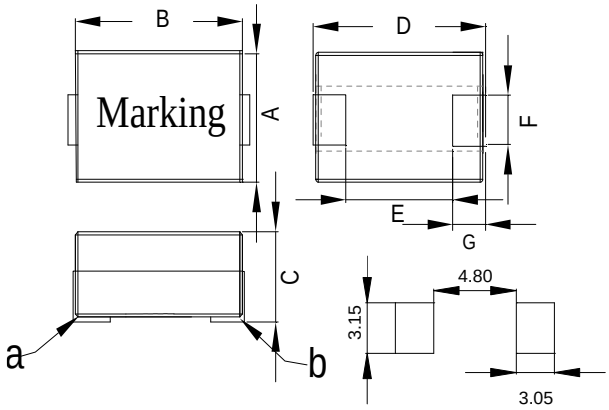
· Ferrite based SMD Inductor with lower core loss.
· Inductance Range:140nH to 170nH. Custom values are welcomed.
· High current output chokes, upto 65 Amp with approx. 20% roll off.
· Low Profile 5.5mm Max. height .
· Foot Print 10.9 x 7.9 mm Max.
· Ideal for Buck Converter, VRM & High Density Board Design.
· Operating frequency up to 1 MHz application.
· Operating Temperature Range -55°C to + 130°C , RoHs compliance ;

2. Electrical Characteristic of SL4322 Series:

Part Number	Inductance (uH) ± 10%	DCR (mΩ) ±7%	Isat[1] (A) @25℃	Isat[2] (A) @75℃	Isat[3] (A) @100℃	Irms (A)
SL4322A-R14KHF	0.14 , 10%	0.27	65	55	50	46
SL4322A-R17KHF	0.17 , 10%	0.27	52	46	41	46

3. Mechanical Dimension(Unit:mm):

A Max.	B Max.	C Max.	D Max.	E Nom.	F Nom.	G Nom.
7.9	10.6	5.5	10.9	5.6	2.5	2.5

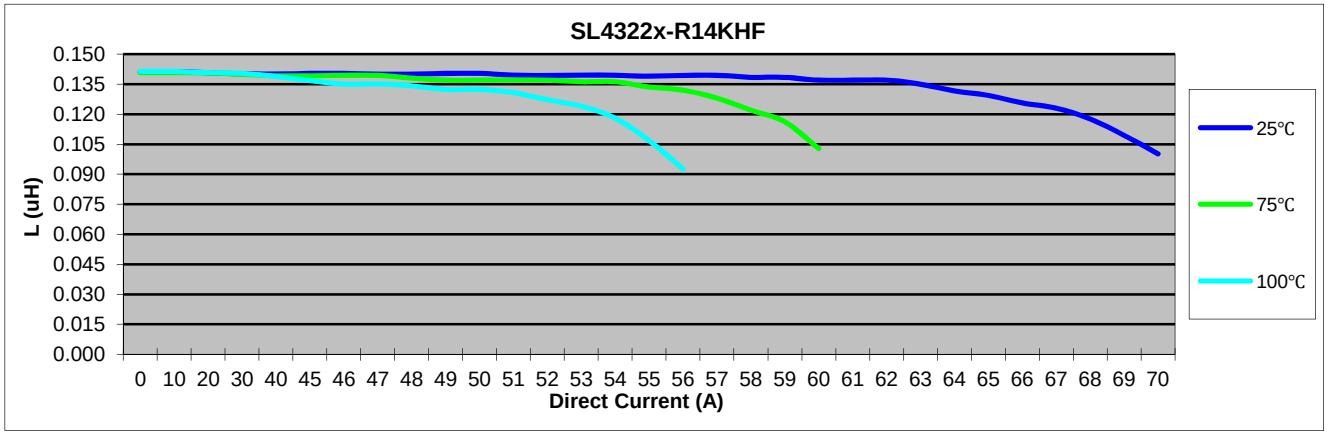


Suggested Pad Layout

Note:

1>.Open Circuit Inductance (OCL) test condition:100KHz,0.1Vrms ,0Adc.
2>.Full Load Inductance (FLL) Test condition:100KHz,0.1Vrms ,Isat.
3>.Isat[1],Isat[2] & Isat[3]: DC current that will cause inductance to drop approximately by 20%.
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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Revision B: 12/06/11

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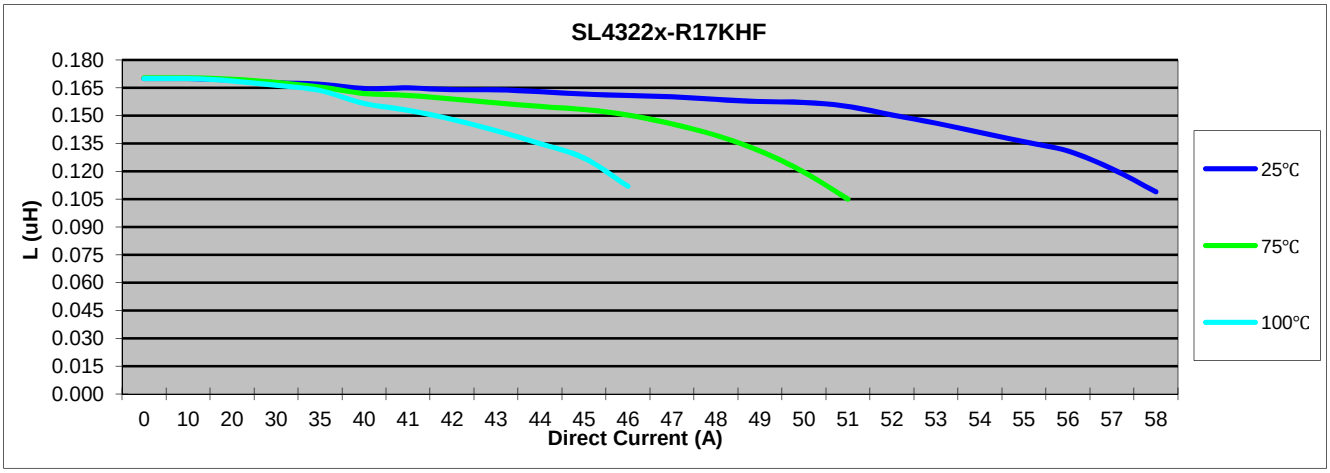
Inductance vs. Current



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