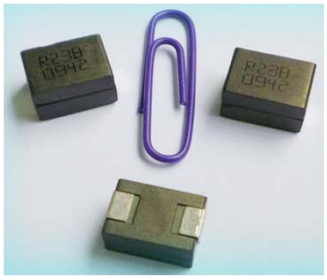
SL43308 Series

1. Features:



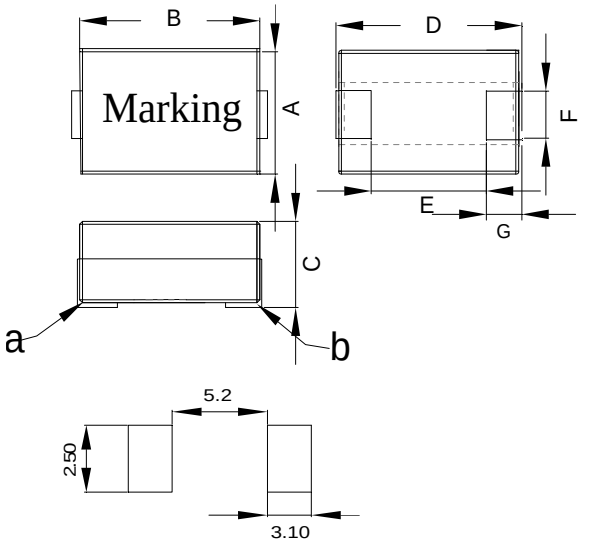
· Ferrite based SMD Inductor with lower core loss at high frequency application.
· Inductance Range:150nH to 390nH. Custom values are welcomed.
· High current output chokes, upto 72+ Amp with max. 20% roll off.
· Low Profile 7.5mm Max. height .
· Foot Print 11.0 x 8.0 mm Max.
· Ideal for Buck Converter, VRM & High Density Board Design.
· Operating up to 1 MHz application.
· Operating Temperature Range -55°C to + 130°C , RoHs compliance ;

2. Electrical Characteristic of SL43308 Series:

Part Number	Inductance (uH) 10% or 15%	DCR (mΩ) ± 7%	Isat[1] (A) @25℃	Isat[2] (A) @45℃	Isat[3] (A) @100℃	Irms (A) @25℃
SL43308A-R15KHF	0.15, 10%	0.29	72+	74	71	48
SL43308B-R15KHF	0.15, 10%	0.40	72+	74	71	41
SL43308C-R15KHF	0.15, 10%	0.48	72+	74	71	37
SL43308A-R17KHF	0.17, 10%	0.29	72+	73	65	48
SL43308B-R17KHF	0.17, 10%	0.40	72+	73	65	41
SL43308C-R17KHF	0.17, 10%	0.48	72+	73	65	37
SL43308A-R23KHF	0.23, 10%	0.29	57	55	47	48
SL43308B-R23KHF	0.23, 10%	0.40	57	55	47	41
SL43308C-R23KHF	0.23, 10%	0.48	57	55	47	37
SL43308A-R30LHF	0.30, 15%	0.29	38	36	30	48
SL43308B-R30LHF	0.30, 15%	0.40	38	36	30	41
SL43308C-R30LHF	0.30, 15%	0.48	38	36	30	37
SL43308A-R39LHF	0.39, 15%	0.29	30	28	24	48
SL43308B-R39LHF	0.39, 15%	0.40	30	28	24	41
SL43308C-R39LHF	0.39, 15%	0.48	30	28	24	37

3. Mechanical Dimension(Unit:mm):

A Max.	B Max.	C Max.	D Max.	E Nom.	F Nom.	G Nom.
8.0	10.6	7.5	11.0	5.6	2.3	2.5



Suggested Pad Layout

Note:

1>.Open Circuit Inductance (OCL) test condition:100KHz,0.10Vrms ,0Adc.

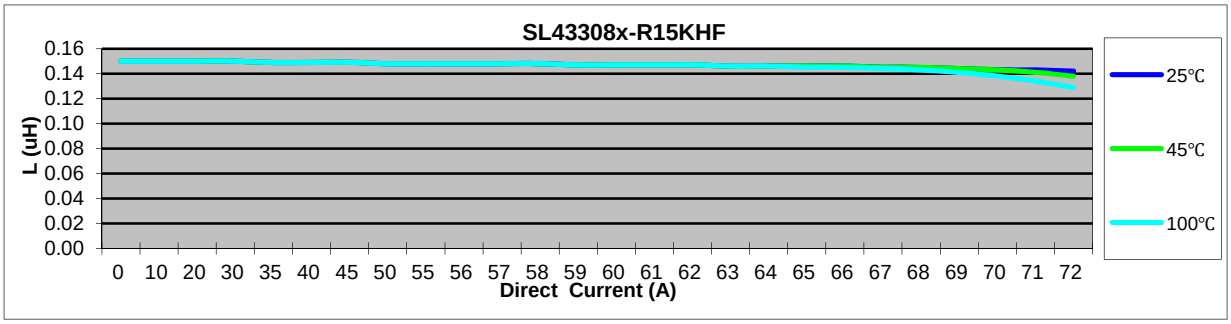
2>.Full Load Inductance (FLL) Test condition:100KHz,0.10Vrms ,Isat;(Ta=25℃).

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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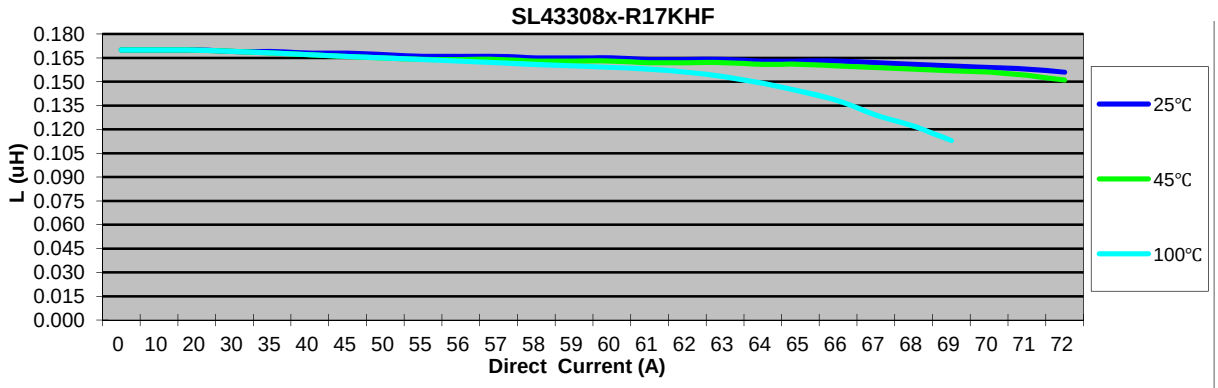
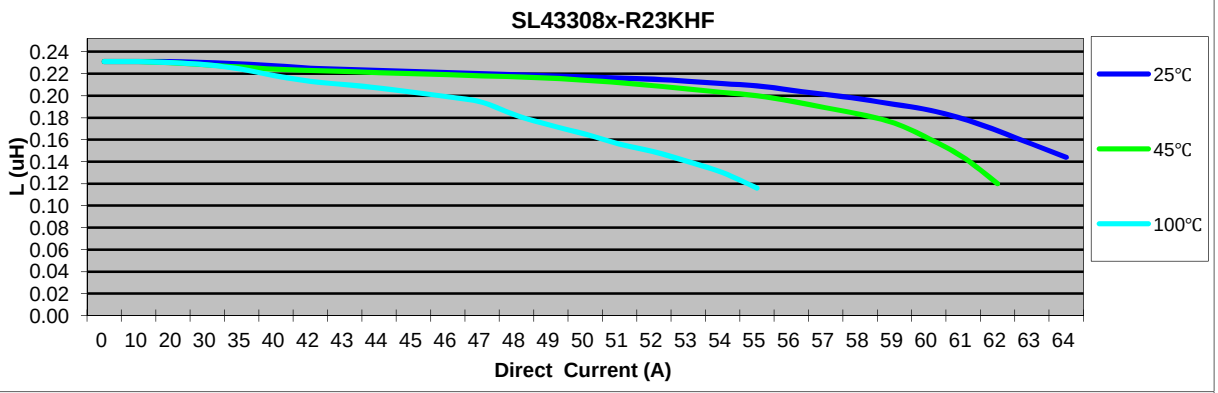
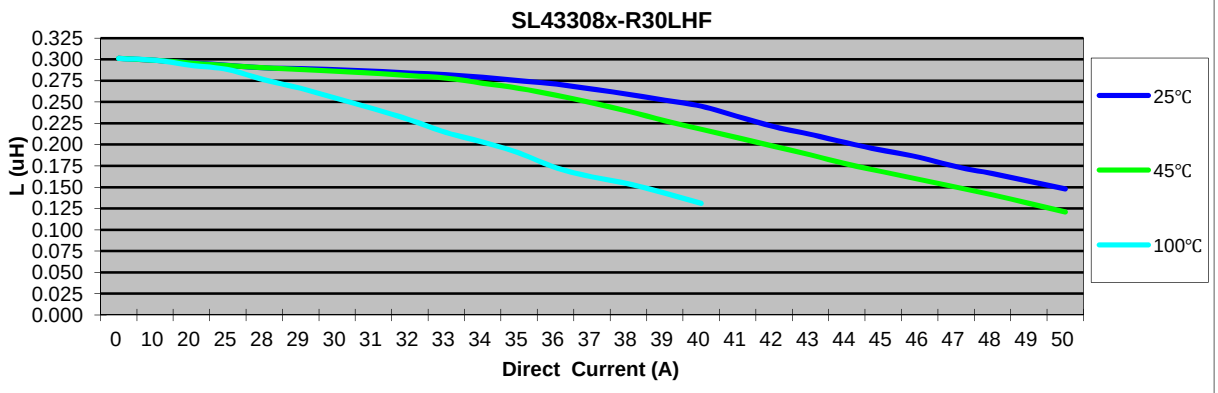
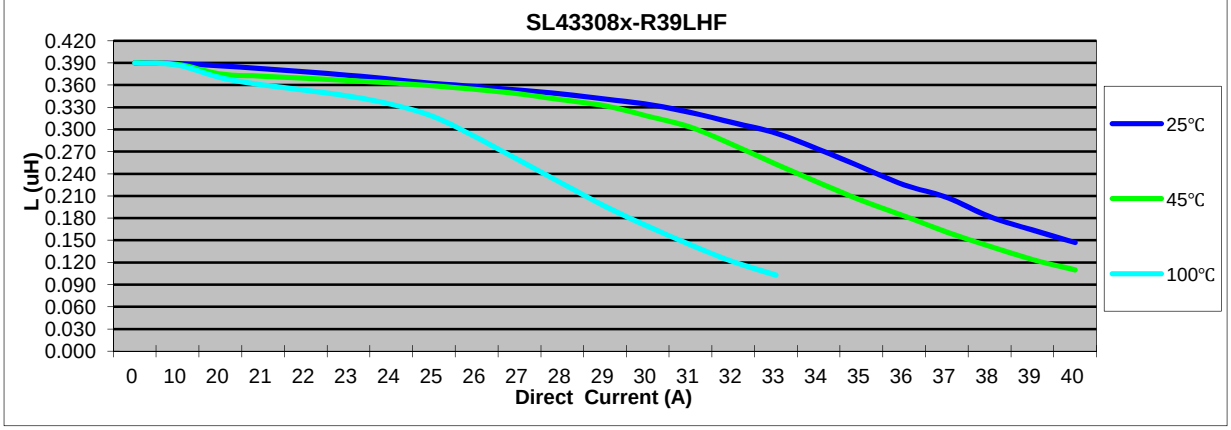
Inductance vs. Current









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