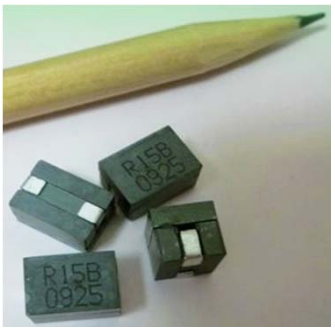
SL4328 Series



1. Features:

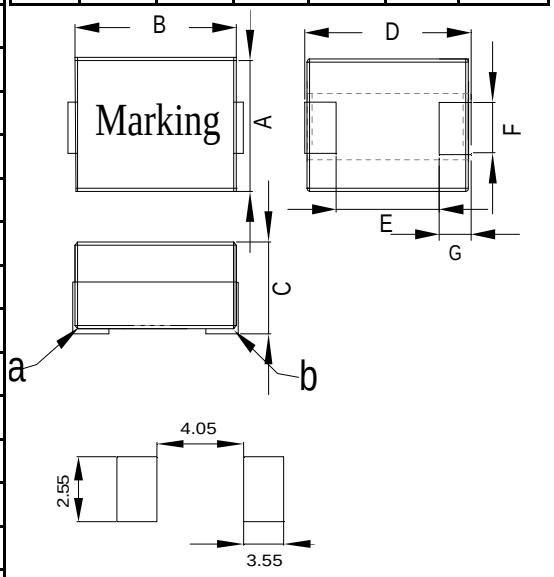
· Ferrite based SMD Inductor with lower core loss.
· Inductance Range:150nH to 510nH. Custom values are welcomed.
· High current output chokes, upto 72 Amp with max. 20% roll off.
· Low Profile 7.2mm Max. height .
· Foot Print 11.0 x 7.2 mm Max.
· Ideal for Buck Converter, VRM & High Density Board Design.
· Operating up to 1 MHz application.
· Operating Temperature Range -55°C to + 130°C

2. Electrical Characteristic of SL4328 Series:

Part Number	Inductance (uH) ±10% or ±15%	DCR (mΩ) ±7%	Isat[1] (A) @25℃	Isat[2] (A) @45℃	Isat[3] (A) @100℃	Isat[4] (A) @125℃	Irms (A)
SL4328A-R15KHF	0.15 , ±10%	0.47	72	65	61	58	42
SL4328B-R15KHF	0.15 , ±10%	0.40	72	65	61	58	45
SL4328A-R18KHF	0.18 , ±10%	0.47	63	61	54	50	42
SL4328B-R18KHF	0.18 , ±10%	0.40	63	61	54	50	45
SL4328A-R21KHF	0.21 ,10%	0.47	51	48	44	37	42
SL4328B-R21KHF	0.21 ,10%	0.40	51	48	44	37	45
SL4328A-R23KHF	0.23 , ±10%	0.47	50	47	43	36	42
SL4328B-R23KHF	0.23 , ±10%	0.40	50	47	43	36	45
SL4328A-R30LHF	0.30 , ±15%	0.47	36	34	29	28	42
SL4328B-R30LHF	0.30 , ±15%	0.40	36	34	29	28	45
SL4328A-R40LHF	0.40 , ±15%	0.47	26	25	23	20	42
SL4328B-R40LHF	0.40 , ±15%	0.40	26	25	23	20	45
SL4328A-R51LHF	0.51 , ±15%	0.47	19	18	17	16	42
SL4328B-R51LHF	0.51 , ±15%	0.40	19	18	17	16	45

3. Mechanical Dimension(Unit:mm):

A Max.	B Max.	C Max.	D Max.	E Nom.	F Nom.	G Nom.
7.2	10.4	7.2	11.0	5.6	2.1	2.5

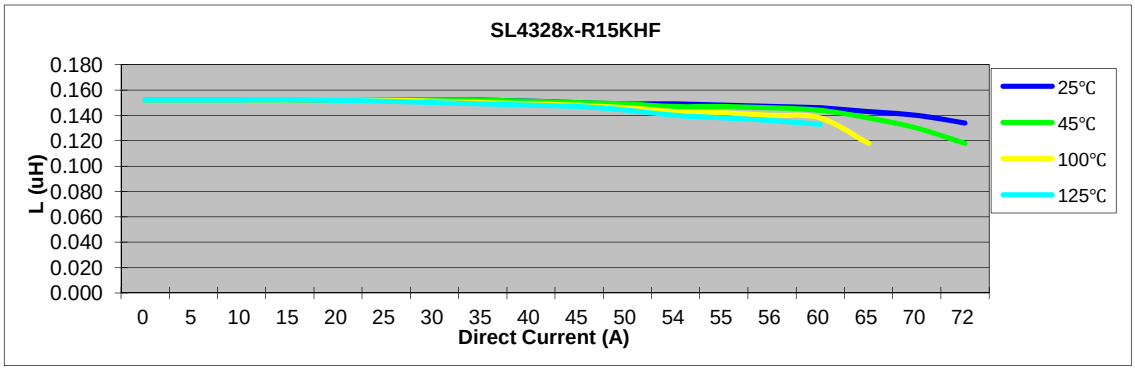


Suggested Pad Layout

Note:

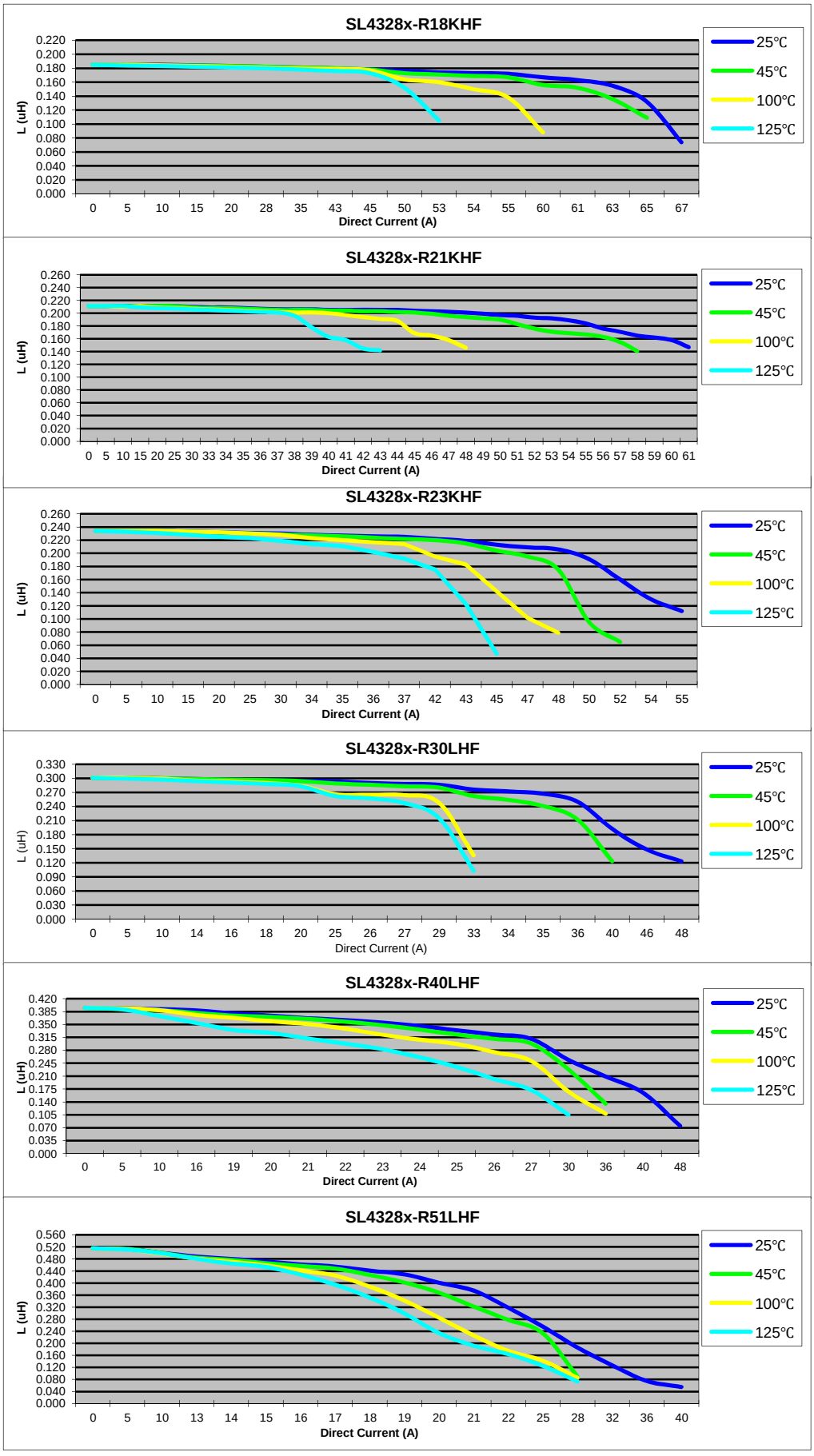
1.Open Circuit Inductance (OCL) test condition:100KHz,0.1Vrms ,0Adc;
2.Full Load Inductance (FLL) Test condition:100KHz,0.1Vrms ,Isat;(Ta=25℃).
3. Isat[1],Isat[2] ,Isat[3] & Isat[4]: DC current that will cause inductance to drop approximately by 20%;(Ta=25℃).
4. Irms: DC current for an approximate temperature 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:



New York 1.914.347.2474 ●Taiwan 886.972.022.388 ●Shenzhen 86.755.8418.6263 ●Shanghai 86.21.5424.5141 ●Hong Kong 852.9688.9767
sales@inter-technical.com ● www.inter-technical.com
Revision D: 11/14/11

SL4328 Series



New York *1.914.347.2474* ●**Taiwan** *886.972.022.388* ●**Shenzhen** *86.755.8418.6263* ●**Shanghai** *86.21.5424.5141* ●**Hong Kong** *852.9688.9767*
sales@inter-technical.com ● www.inter-technical.com

Revision D: 11/14/11