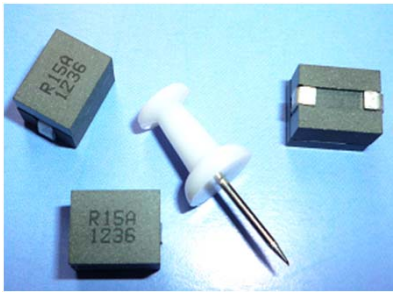
SL4132 Series

1. Features:

- Ferrite based SMD Inductor with lower core loss.
- Inductance Range:105nH to 170nH,Custom values are welcomed.
- High current output chokes, upto 100.0 Amp with approx. 20% roll off.
- Low Profile 8.00mm Max. height .
- Foot Print 10.41 x 8.00 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: 450 pcs , 13" Reel ;

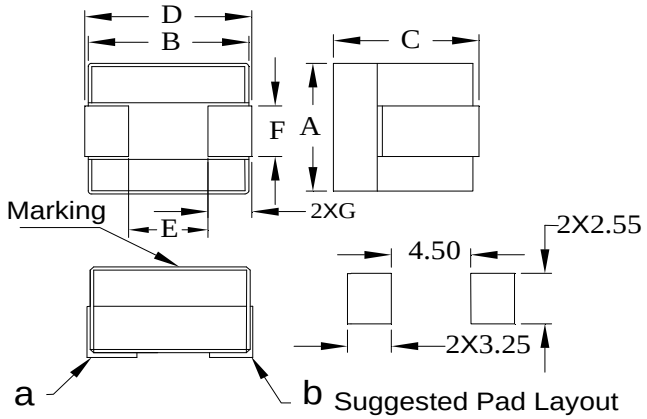


2. Electrical Characteristic of SL4132 Series:

Part Number	Inductance (uH) ±10%	DCR (mΩ) ± 5.0%	Isat[1] (A) @25℃	Isat[2] (A) @75℃	Isat[3] (A) @100℃	Irms (A) @25℃	C (mm) Max.
SL4132A-R105KHF	0.105	0.130	100.00	94.00	88.00	65.00	8.10
SL4132B-R105KHF	0.105	0.140	100.00	94.00	88.00	62.00	8.10
SL4132A-R12KHF	0.120	0.130	94.00	88.00	84.00	65.00	8.00
SL4132B-R12KHF	0.120	0.140	94.00	88.00	84.00	62.00	8.00
SL4132A-R15KHF	0.150	0.130	81.00	74.00	70.00	65.00	8.00
SL4132B-R15KHF	0.150	0.140	81.00	74.00	70.00	62.00	8.00
SL4132A-R17KHF	0.170	0.130	73.00	67.00	61.00	65.00	8.00
SL4132B-R17KHF	0.170	0.140	73.00	67.00	61.00	62.00	8.00

3. Mechanical Dimension(Unit:mm):

A Max.	B Max.	C Max.	D Max.	E Nom.	F Nom.	G Nom.
8.00	10.30	See Table	10.41	5.10	2.25	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 drops approximately by 20% ;

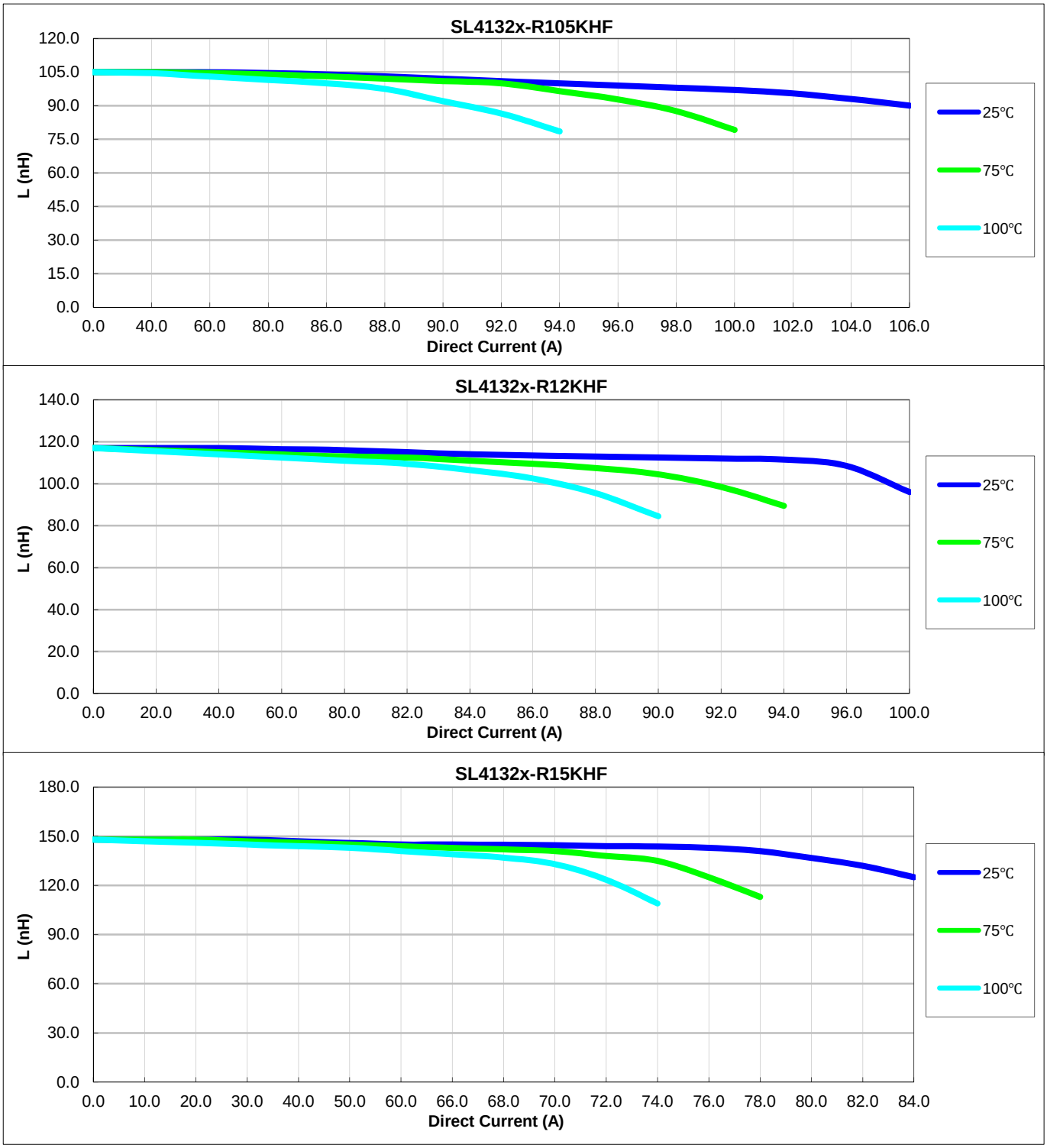
4>. Irms: DC current for an approximate temperature rise of 40℃ without core loss,.Derating is necessary for AC currents. PCB pad layout,trace thickness and width,air-flow and proximity of other heat generating components will affect the temperature rise. It is recommended the part temperature not exceed 130°C under worst case operat

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):

SL4132 Series

Inductance vs. Current



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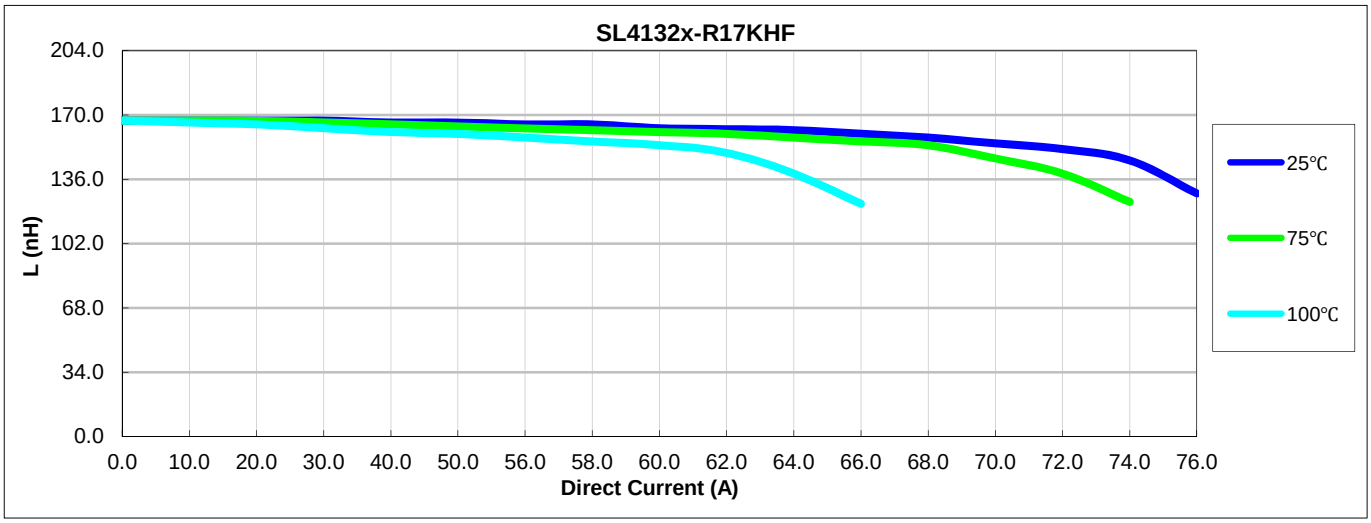
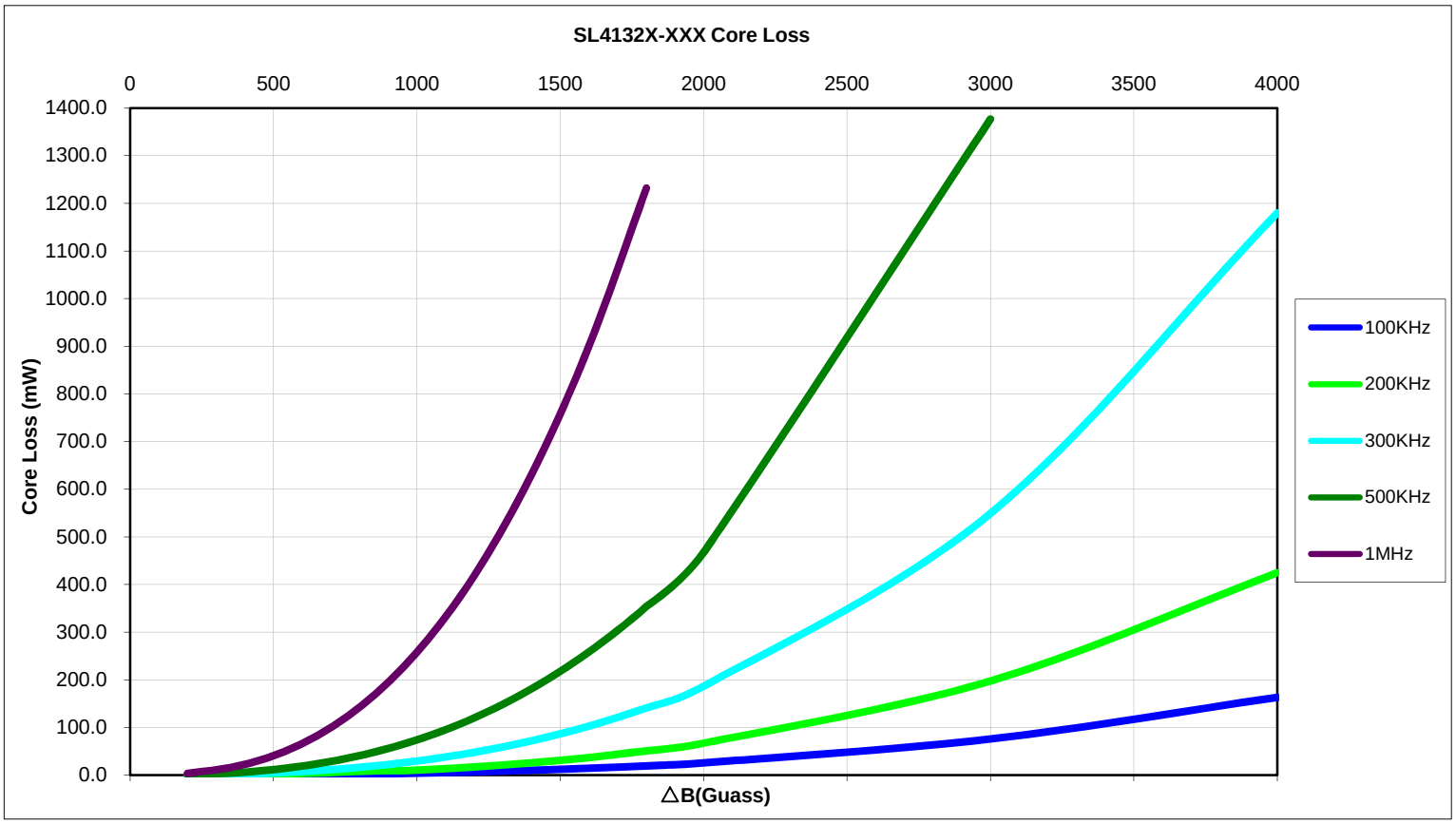
SL4132 Series

Inductance vs. Current



5. Core Loss:



Where △B=0.355*L(nH)*△I