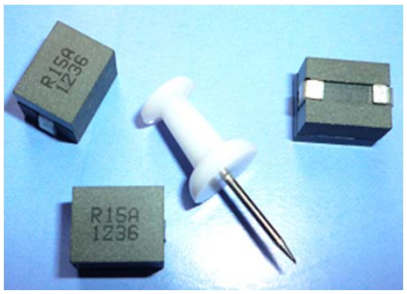
SL4134 Series

1. Features:

- Ferrite based SMD Inductor with lower core loss.
- Inductance Range:150nH to 170nH,Custom values are welcomed.
- High current output chokes, upto 82 Amp with approx. 20% roll off.
- Low Profile 8.60mm 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 .

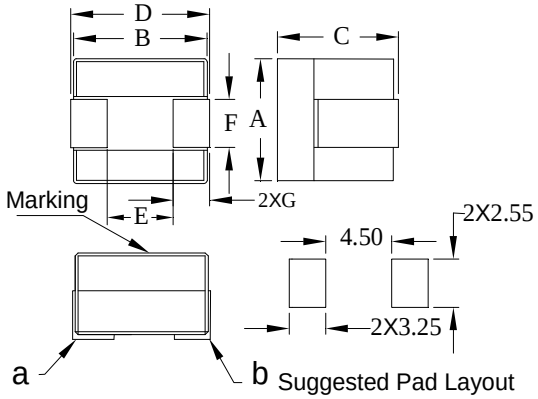


2. Electrical Characteristic of SL4134 Series:

Part Number	Inductance (uH) ±10%	DCR (mΩ) ± 5.0%	Isat[1] (A) @25℃	Isat[2] (A) @75℃	Isat[3] (A) @100℃	Irms (A) @25℃
SL4134A-R15KHF	0.15	0.13	82.00	75.00	70.00	65.00
SL4134B-R15KHF	0.15	0.16	82.00	75.00	70.00	58.00
SL4134A-R17KHF	0.17	0.13	74.00	68.00	62.00	65.00
SL4134B-R17KHF	0.17	0.16	74.00	68.00	62.00	58.00

3. Mechanical Dimension(Unit:mm):

A Max.	B Max.	C Max.	D Max.	E Nom.	F Nom.	G Nom.
8.00	10.30	8.60	10.41	5.10	2.25	2.50



Note:

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

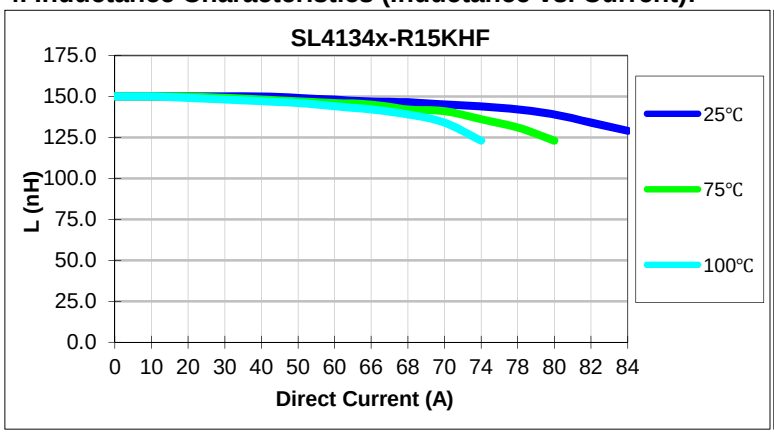
2>.Full Load Inductance (FLL) Test condition:100KHz,0.1Vrms ,Isat ;(Ta=25℃).

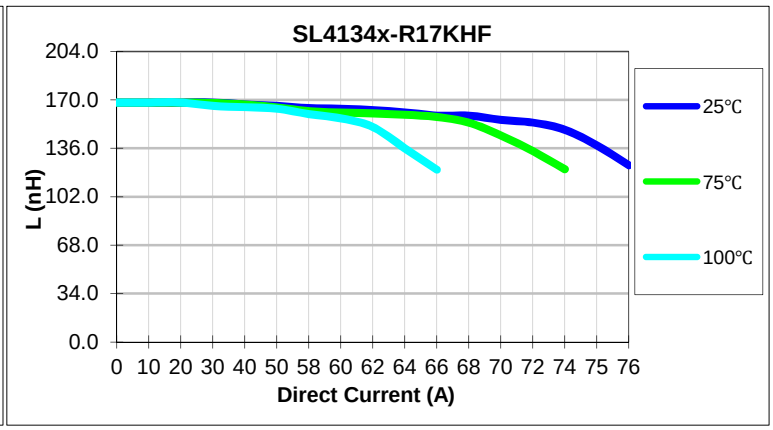
3>.Isat[1],Isat[2] & Isat[3] : DC current that will cause inductance to drops approximately by 20% ;

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 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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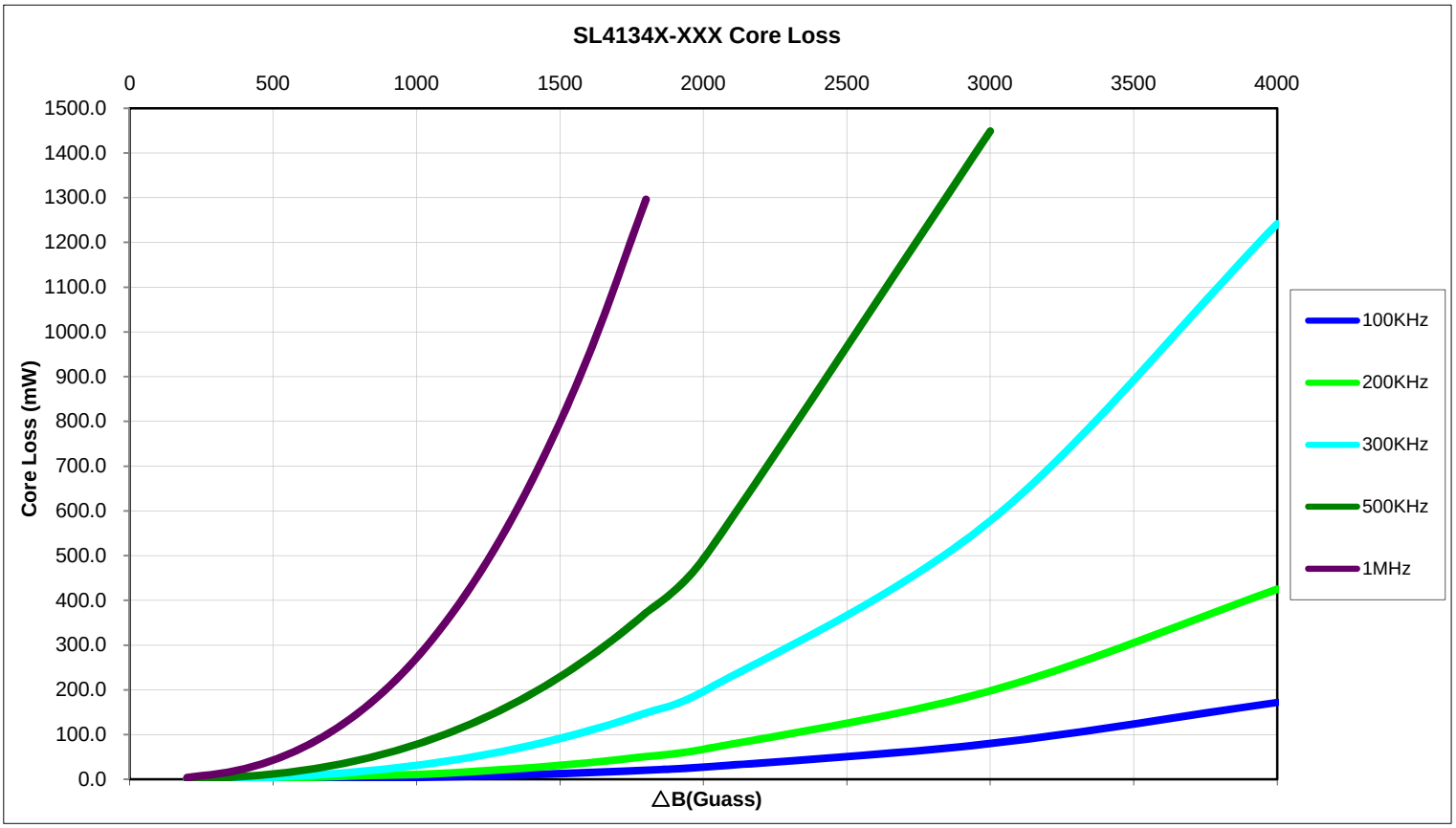
5. Core Loss:



Where △B=0.34*L(nH)*△I