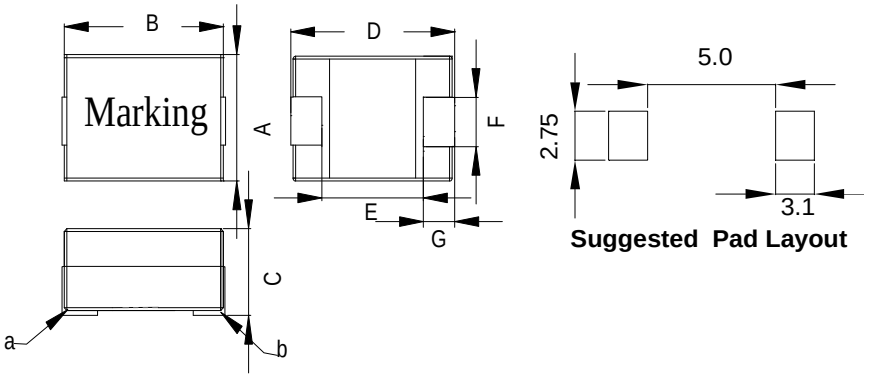
SL4433 Series

1. Features:

· Ferrite based SMD Inductor with lower core loss.
· Inductance:220nH to 630nH . Custom values are welcomed.
· High current output chokes, upto 40 Amp with approx. 20% roll off.
· Low Profile 8.4mm Max. height .
· Foot Print 11.2 x 9.0 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. Mechanical Dimension(Unit:mm):



A Max.	B Max.	C Max.	D Max.	E Ref.	F Nom.	G Nom.
9.0	10.2	8.4	11.2	5.6	2.3	2.3

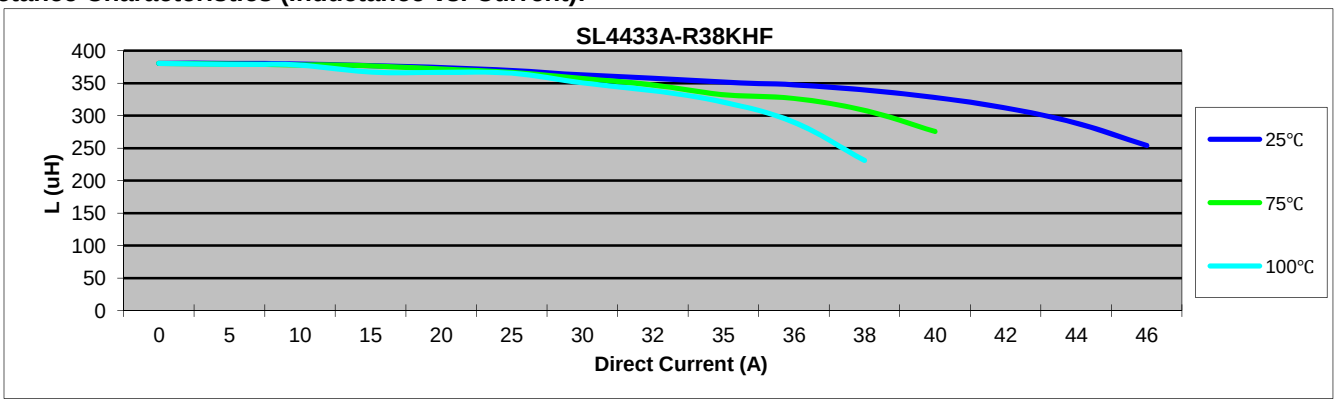
3. Electrical Characteristic of SL4433 Series:

Part Number	Inductance (nH) ±10%	DCR (mΩ) ± 7.0%	Isat[1] (A) @25℃	Isat[2] (A) @75℃	Isat[3] (A) @100℃	Irms (A) @25℃
SL4433A-R38KHF	380	0.53	40.0	35.0	32.0	45.0
SL4433B-R38KHF	380	0.60	40.0	35.0	32.0	45.0

Note:

1>.Open Circuit Inductance (OCL) test condition:100KHz,1.0Vrms,0Adc ,at 25℃.
2>.Full Load Inductance (FLL) Test condition:100KHz,1.0Vrms ,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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