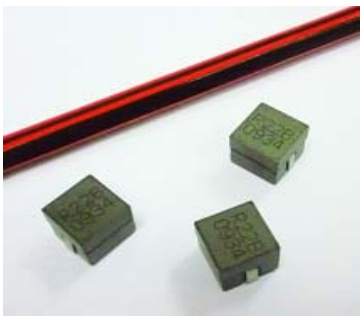
SL4035 Series

1. Features:



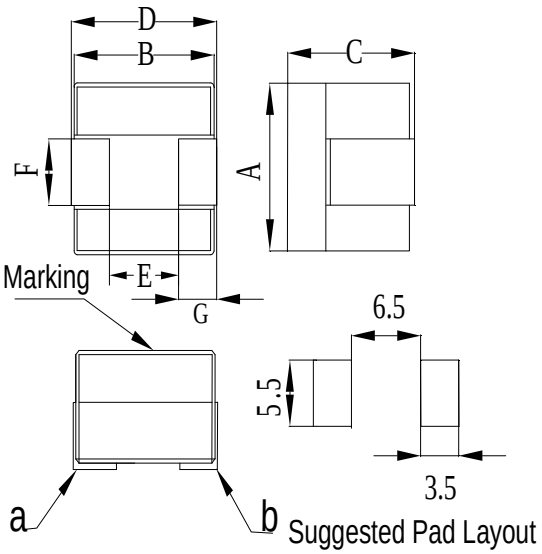
· Ferrite based SMD Inductor with lower core loss.
· Inductance Range:220nH to 470nH. Custom values are welcomed.
· High current output chokes, upto 68 Amp with approx. 20% roll off.
· Low Profile 9.0mm Max. height .
· Foot Print 11.2 x 11.0 mm Max.
· Ideal for Buck Converter, VRM & High Density Board Design.
· Operating frequency up to 1 MHz application.
· Operating Temperature Range -55°C to + 130°C , RoHs & HF compliance .
· T & R Qtys: 300 pcs , 13" Reel ;

2. Electrical Characteristic of SL4035 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℃
SL4035A-R22KHF	0.22 , 10%	0.48	68.0	63.0	59.0	40.0
SL4035B-R22KHF	0.22 , 10%	0.63	68.0	63.0	59.0	35.0
SL4035C-R22KHF	0.22 , 10%	0.32	68.0	63.0	59.0	49.0
SL4035D-R22KHF	0.22 , 10%	0.42	68.0	63.0	59.0	43.0
SL4035A-R27KHF	0.27 , 10%	0.48	52.0	50.0	47.0	40.0
SL4035B-R27KHF	0.27 , 10%	0.63	52.0	50.0	47.0	35.0
SL4035C-R27KHF	0.27 , 10%	0.32	52.0	50.0	47.0	49.0
SL4035D-R27KHF	0.27 , 10%	0.42	68.0	63.0	59.0	43.0
SL4035A-R32KHF	0.32 , 10%	0.48	46.0	45.0	40.0	40.0
SL4035B-R32KHF	0.32 , 10%	0.63	46.0	45.0	40.0	35.0
SL4035C-R32KHF	0.32 , 10%	0.32	46.0	45.0	40.0	49.0
SL4035D-R32KHF	0.32 , 10%	0.42	46.0	45.0	40.0	43.0
SL4035A-R47LHF	0.47 , 15%	0.48	30.0	28.0	25.0	40.0
SL4035B-R47LHF	0.47 , 15%	0.63	30.0	28.0	25.0	35.0
SL4035C-R47LHF	0.47 , 15%	0.32	30.0	28.0	25.0	49.0
SL4035D-R47LHF	0.47 , 15%	0.42	30.0	28.0	25.0	43.0

3. Mechanical Dimension(Unit:mm):

A Max.	B Max.	C Max.	D Max.	E Nom.	F Nom.	G Nom.
11.0	11.0	9.0	11.2	5.6	2.8	2.5



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 drop approximately by 20% ;(Ta=25℃).

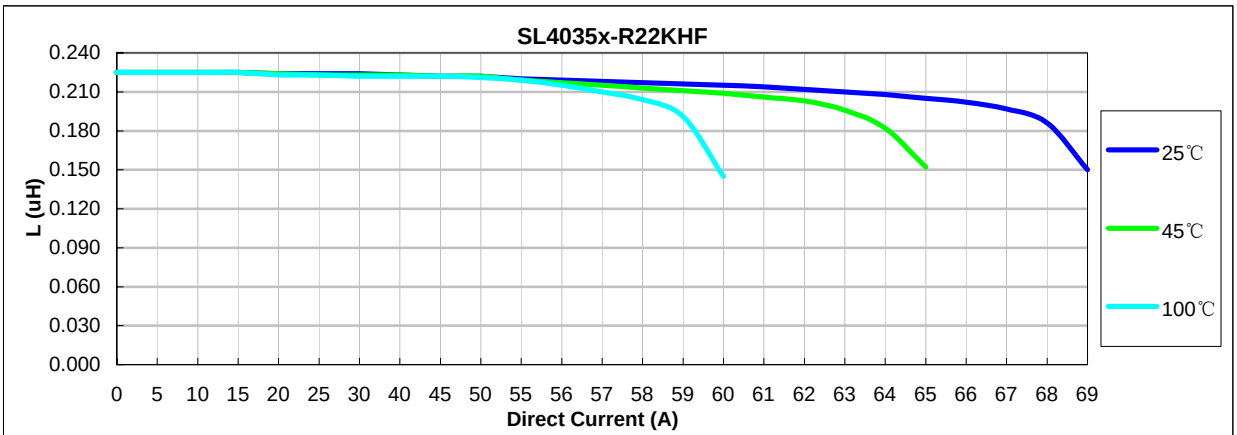
4>. Irms: DC current for an approximate temperature rise of 40℃ without core loss,.Derating is necessary for AC currents. PCB pad layout,trace thickness and width,air-flow and proximity of other heat generating components will affect the temperature rise. It is recommended the part temperature not exceed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

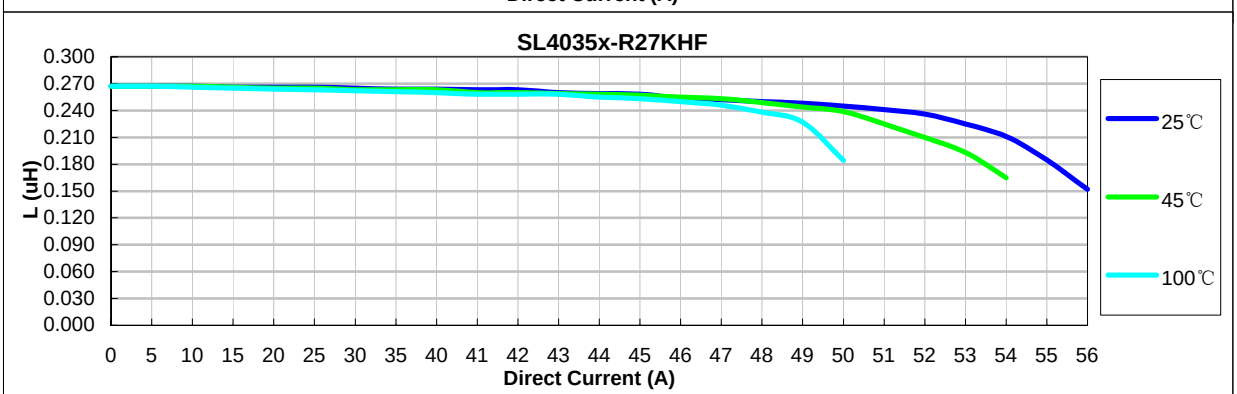
5>.The nominal DCR is measured from point "a" to point"b",as shown above on the mechanical drawing.

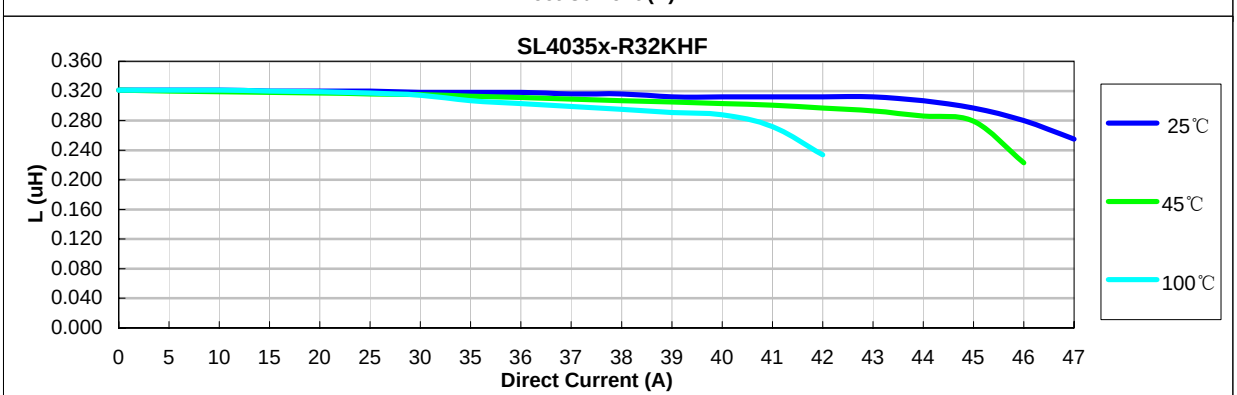
4. Inductance Characteristics (Inductance vs. Current):

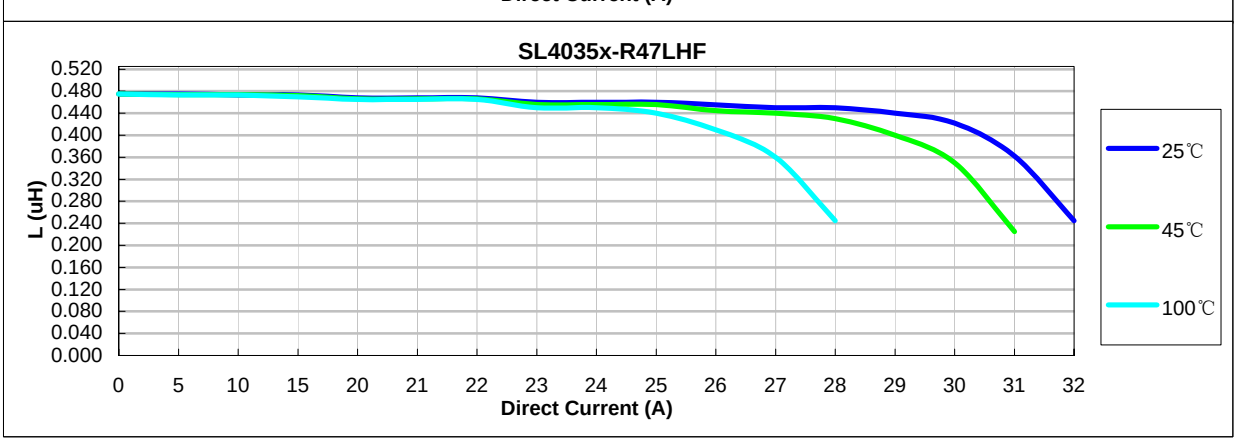
SL4035 Series

Inductance vs. Current









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