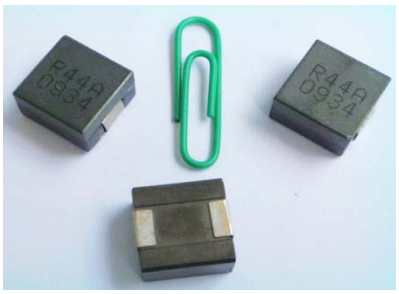
SL5032 Series

1. Features:



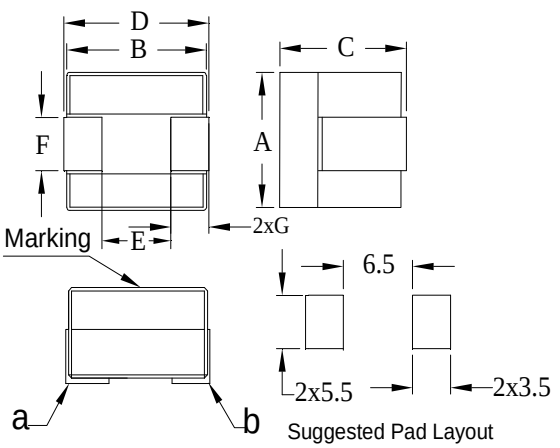
· Ferrite based SMD Inductor with lower core loss.
· Inductance Range:210nH to 440nH. Custom values are welcomed.
· High current output chokes, upto 71 Amp with approx. 20% roll off.
· Low Profile 8.0mm Max. height .
· Foot Print 13.3 x 13.0 mm Max.
· Ideal for Buck Converter, VRM & High Density Board Design.
· Operating frequency up to 1 MHz application.
· Operating Temperature Range -55°C to + 130°C , RoHs & HF compliance .
· T & R Qtys: 400 pcs , 13" Reel ;

2. Electrical Characteristic of SL5032 Series:

Part Number	Inductance (uH) 10% or 15%	DCR (mΩ) 8.0%,9.5% or 10%	Isat[1] (A) @25℃	Isat[2] (A) @45℃	Isat[3] (A) @100℃	Irms (A) @25℃
SL5032A-R21KHF	0.21 , 10%	0.29 , 8.0%	71.00	68.00	66.00	47.00
SL5032B-R21KHF	0.21 , 10%	0.41 , 9.5%	71.00	68.00	66.00	40.00
SL5032C-R21KHF	0.21 , 10%	0.32 , 8.0%	71.00	68.00	66.00	45.00
SL5032D-R21KHF	0.21 , 10%	0.18 , 10%	71.00	68.00	66.00	60.00
SL5032A-R26KHF	0.26 , 10%	0.29 , 8.0%	61.00	60.00	55.00	47.00
SL5032B-R26KHF	0.26 , 10%	0.41 , 9.5%	61.00	60.00	55.00	40.00
SL5032C-R26KHF	0.26 , 10%	0.32 , 8.0%	61.00	60.00	55.00	45.00
SL5032D-R26KHF	0.26 , 10%	0.18 , 10%	61.00	60.00	55.00	60.00
SL5032A-R32KHF	0.32 , 10%	0.29 , 8.0%	54.00	51.00	45.00	47.00
SL5032B-R32KHF	0.32 , 10%	0.41 , 9.5%	54.00	51.00	45.00	40.00
SL5032C-R32KHF	0.32 , 10%	0.32 , 8.0%	54.00	51.00	45.00	45.00
SL5032D-R32KHF	0.32 , 10%	0.18 , 10%	54.00	51.00	45.00	60.00
SL5032A-R44LHF	0.44 , 15%	0.29 , 8.0%	35.00	34.00	30.00	47.00
SL5032B-R44LHF	0.44 , 15%	0.41 , 9.5%	35.00	34.00	30.00	40.00
SL5032C-R44LHF	0.44 , 15%	0.32 , 8.0%	35.00	34.00	30.00	45.00
SL5032D-R44LHF	0.44 , 15%	0.18 , 10%	35.00	34.00	30.00	60.00

3. Mechanical Dimension(Unit:mm):

A Max.	B Max.	C Max.	D Max.	E Nom.	F Nom.	G Nom.
13.00	13.00	8.00	13.30	7.60	4.80	2.50



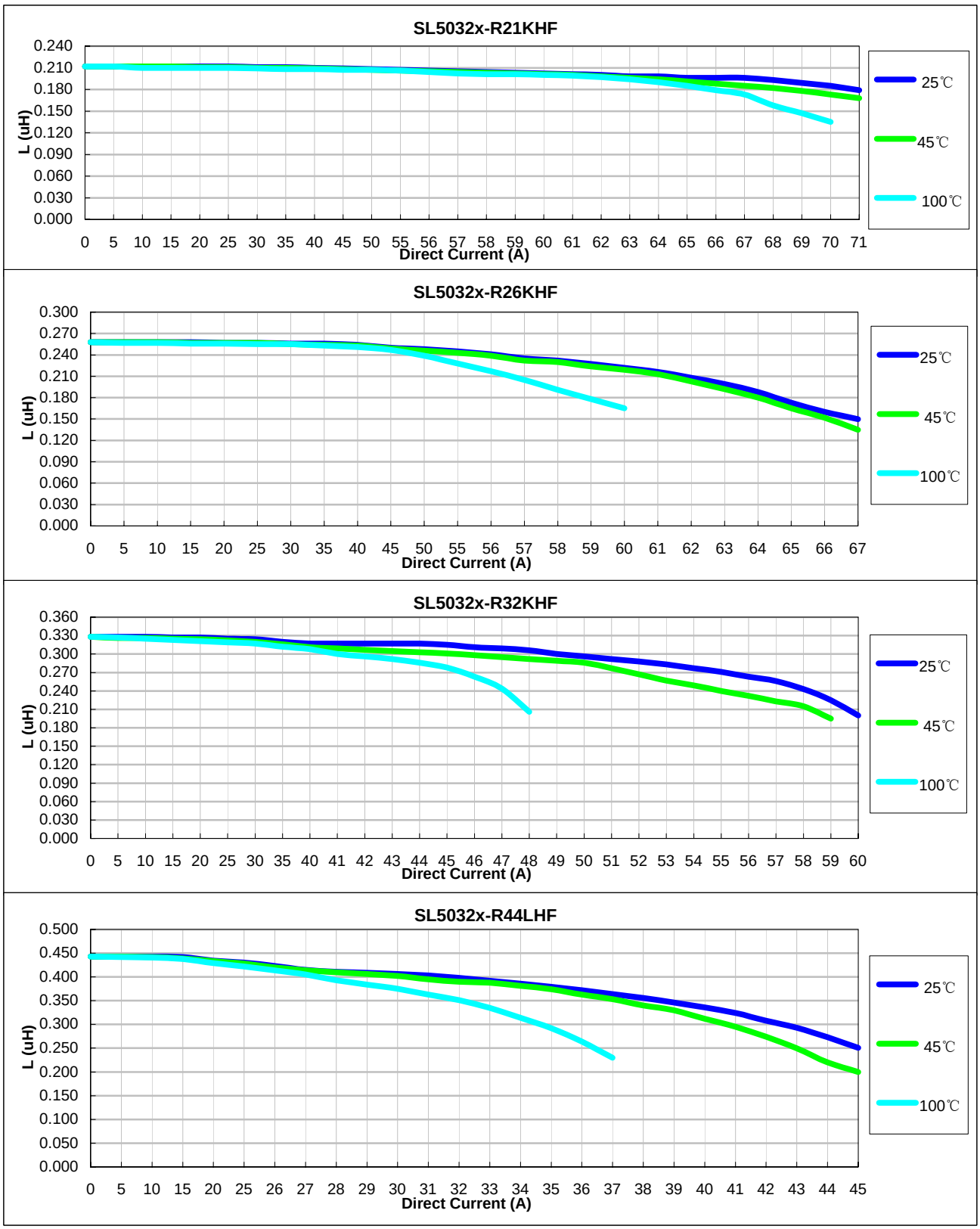
Note:

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 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):

SL5032 Series

Inductance vs. Current



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