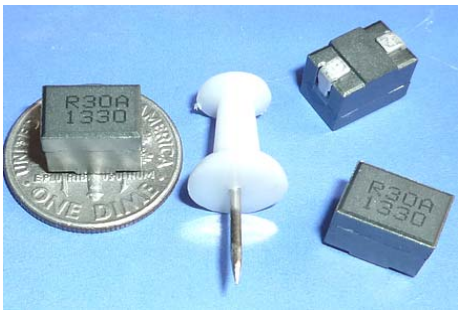
SL3732 Series

1. Features:

· Ferrite based SMD Inductor with lower core loss.
· Inductance:100nH to 510nH . Custom values are welcomed.
· High current output chokes, upto 95 Amp with approx. 20% roll off.
· Low Profile 8.00mm Max. height .
· Foot Print 9.60 x 6.40 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: 650 pcs , 13" Reel ;



2. Mechanical Dimension(Unit:mm):

A ± 0.20	B (Max.)	C ± 0.20	D ± 0.20	E Ref.	F ± 0.20	G ± 0.30	H (Ref.)	Fig
6.20	9.50	7.80	9.40	4.40	2.20	2.50		1
6.20	9.50	7.80	9.40	4.40	2.20	2.50	0.70	2

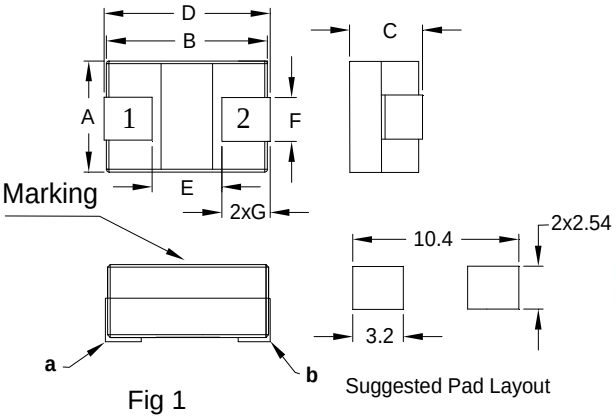
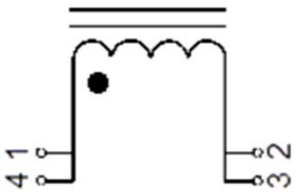


Fig 1

Suggested Pad Layout



SCHEMATIC DIAGRAM

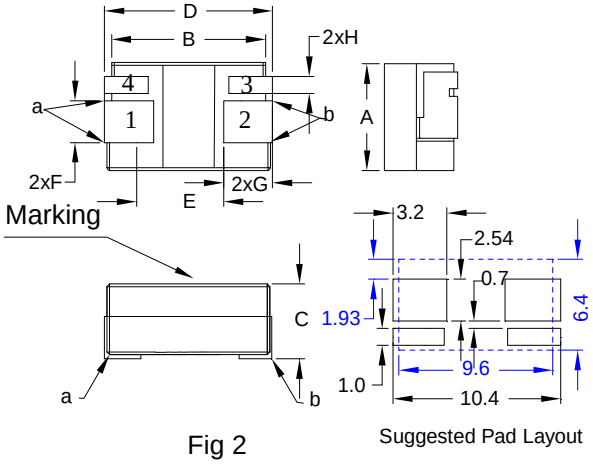


Fig 2

Suggested Pad Layout

3. Electrical Characteristic of SL3732 Series:

Part Number	Inductance (nH) 10% or 15%	DCR (mΩ) ± 5.0%	Isat[1] (A) @25℃	Isat[2] (A) @100℃	Irms (A) @25℃	Fig
SL3732A-R10KHF	100 , 10%	0.29	95.00	85.00	51.00	1
SL3732A-R12KHF	120 , 10%	0.29	80.00	70.00	51.00	1
SL3732A-R15KHF	150 , 10%	0.29	67.00	57.00	51.00	1
SL3732A-R18KHF	180 , 10%	0.29	47.00	42.00	51.00	1
SL3732A-R22KHF	220 , 10%	0.29	43.00	34.00	51.00	1
SL3732A-R28KHF	280 , 10%	0.29	29.00	24.00	51.00	1
SL3732A-R30KHF	300 , 10%	0.29	28.00	23.00	51.00	1
SL3732A-R40LHF	400 , 15%	0.29	18.00	15.00	51.00	1
SL3732A-R51LHF	510 , 15%	0.29	14.00	11.00	51.00	1
SL3732C-R12KHF	120 , 10%	0.29	75.00	62.00	51.00	2
SL3732C-R15KHF	150 , 10%	0.29	66.00	55.00	51.00	2
SL3732C-R22KHF	220 , 10%	0.29	40.00	31.00	51.00	2
SL3732C-R28KHF	280 , 10%	0.29	27.00	21.00	51.00	2
SL3732C-R30KHF	300 , 10%	0.29	25.00	20.00	51.00	2
SL3732H-R30KHF	300 , 10%	0.29	33.00	30.00	51.00	1

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Note:

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

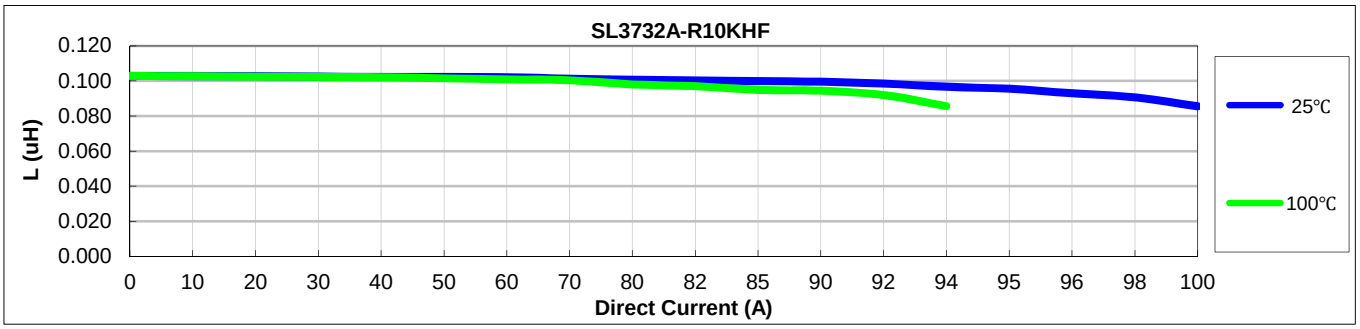
2>.Full Load Inductance (FLL) Test condition:100KHz,1.0Vrms ,Isat ;(Ta=25℃).

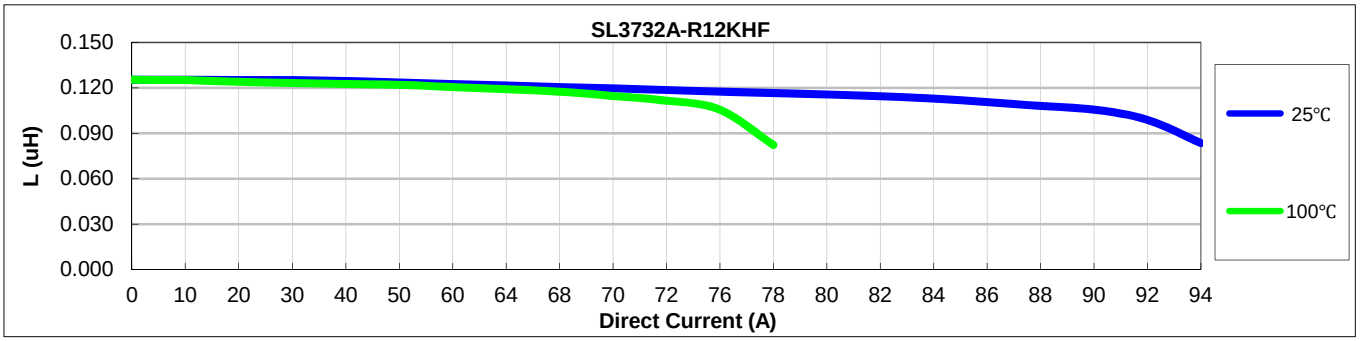
3>.$Isat^1$ & $Isat^2$: DC current that will cause inductance to drops approximately by 20% ;

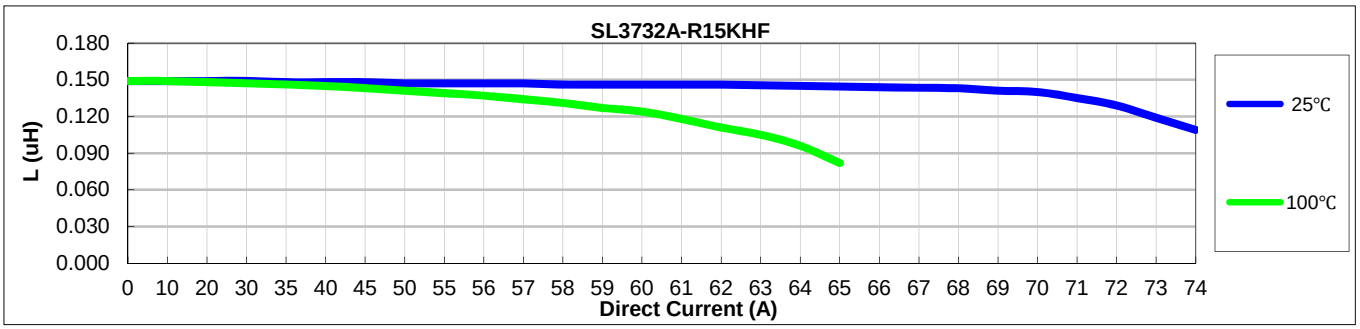
4>. Irms: DC current for an approximate temperature rise of 40℃ without core loss,.Derating is necessary for AC currents. PCB pad layout,trace thickness and width,air-flow and proximity of other heat generating components will affect the temperature rise. It is recommended the part temperature not exceed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

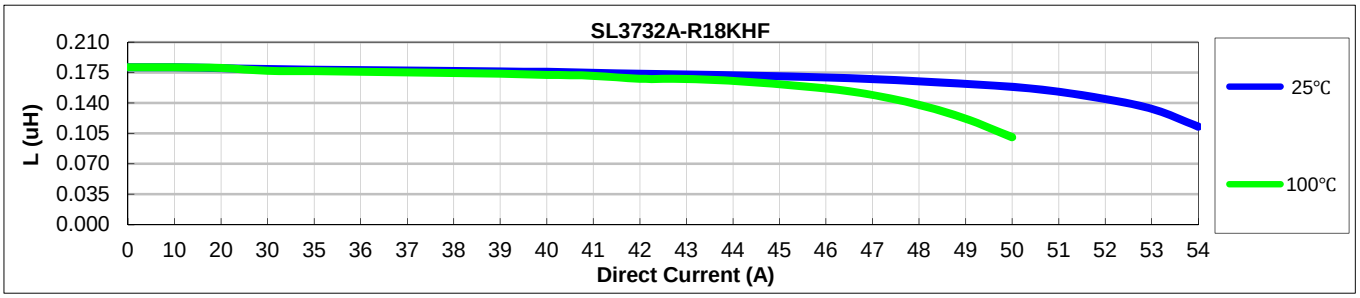
5>.The nominal DCR is measured from point "a" to point"b",as shown above on the mechanical drawing.

4. Inductance Characteristics (Inductance vs. Current):









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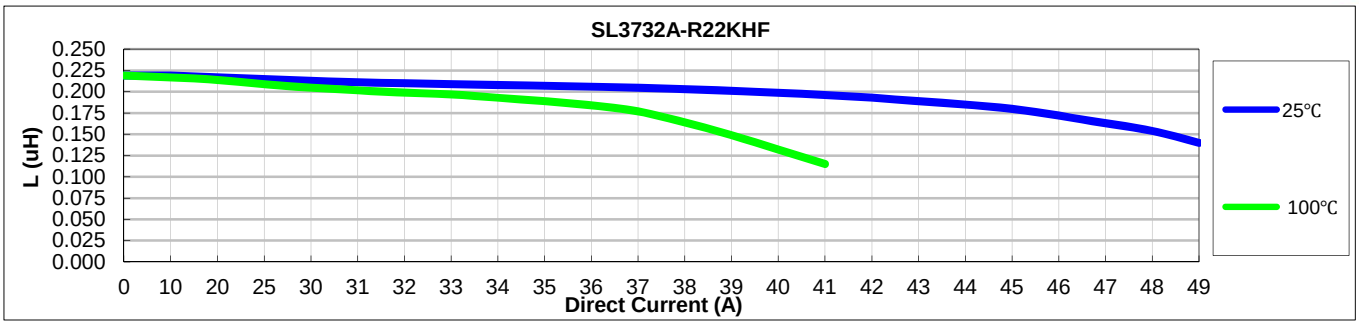

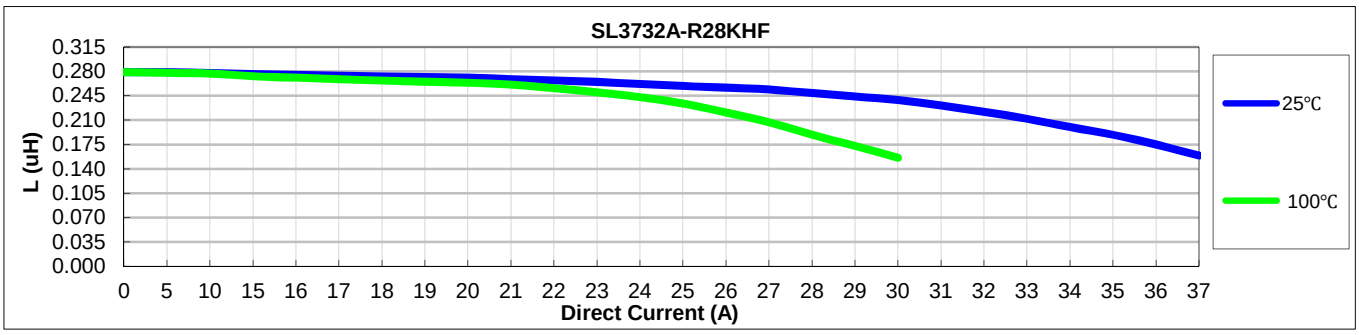

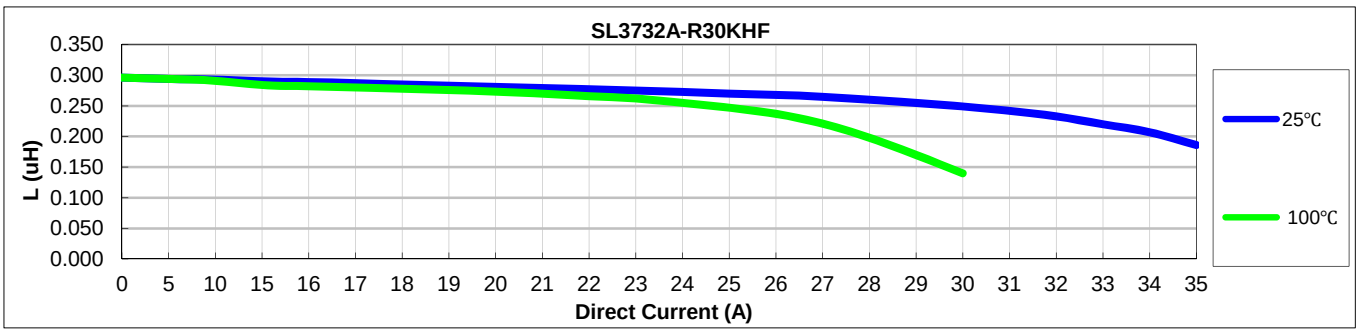

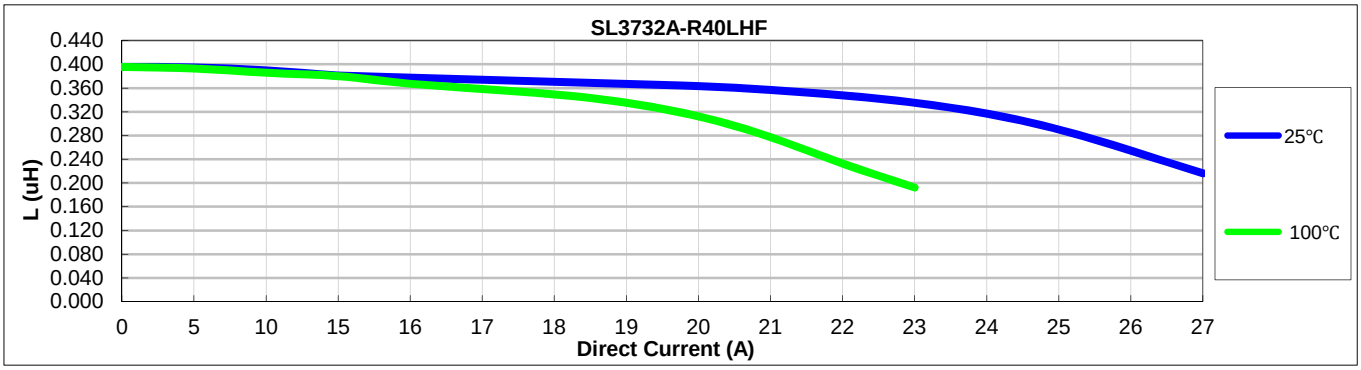

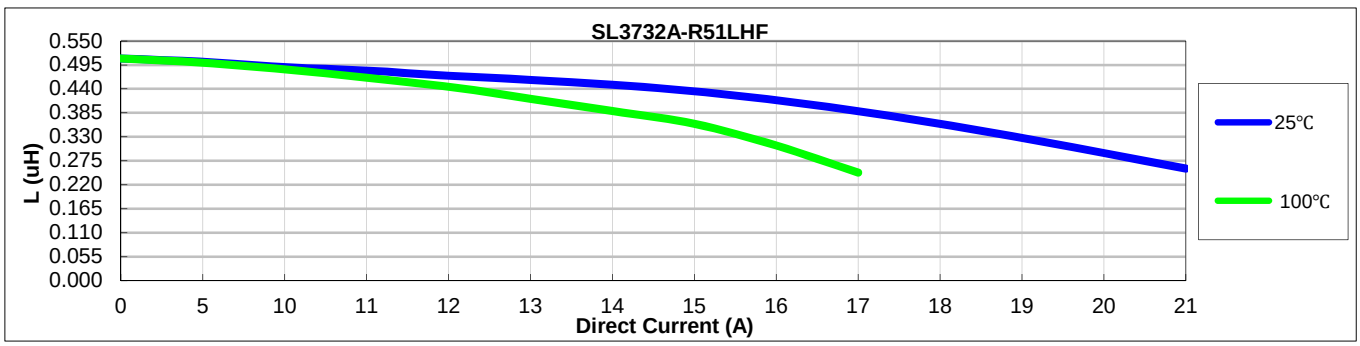

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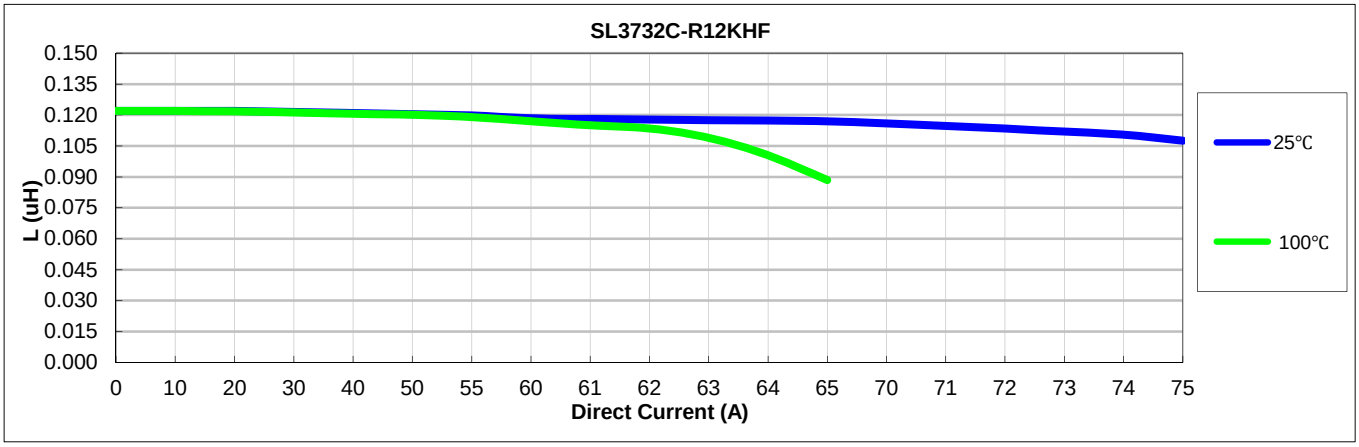

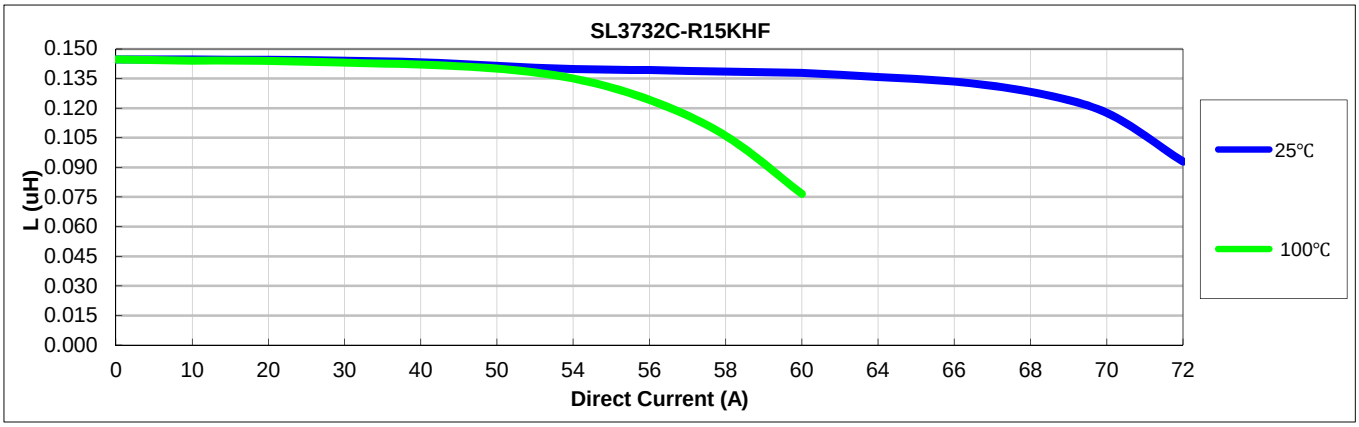

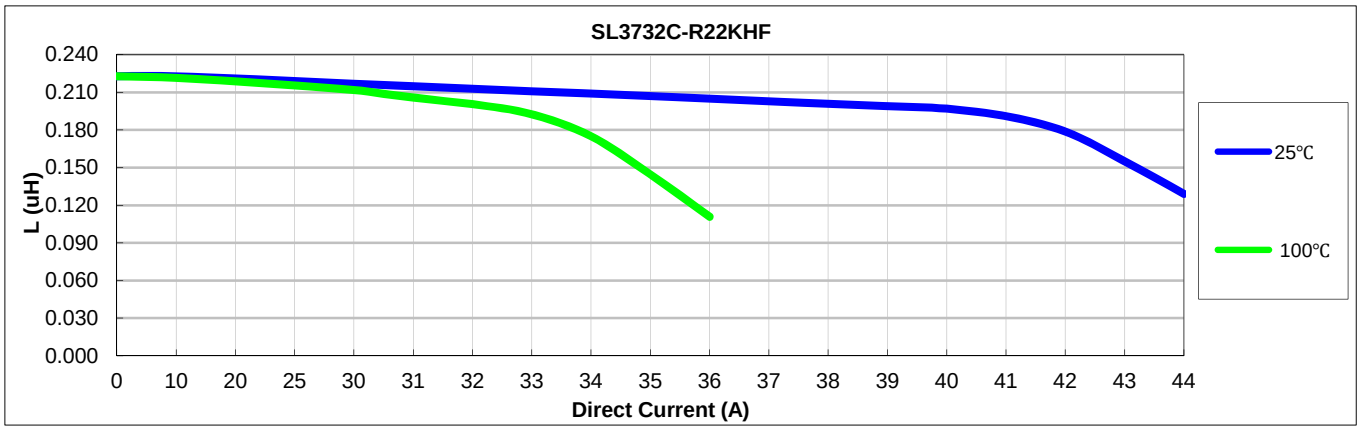

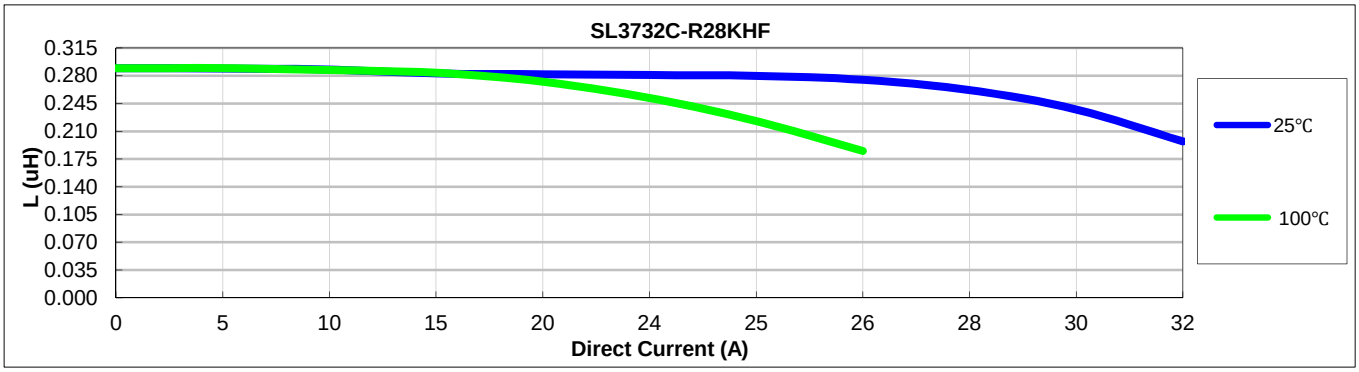

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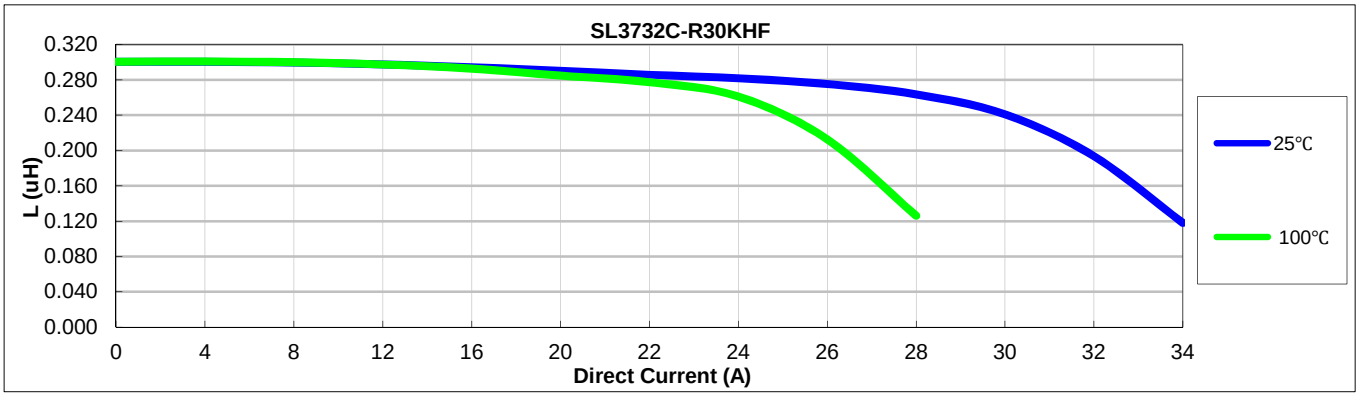
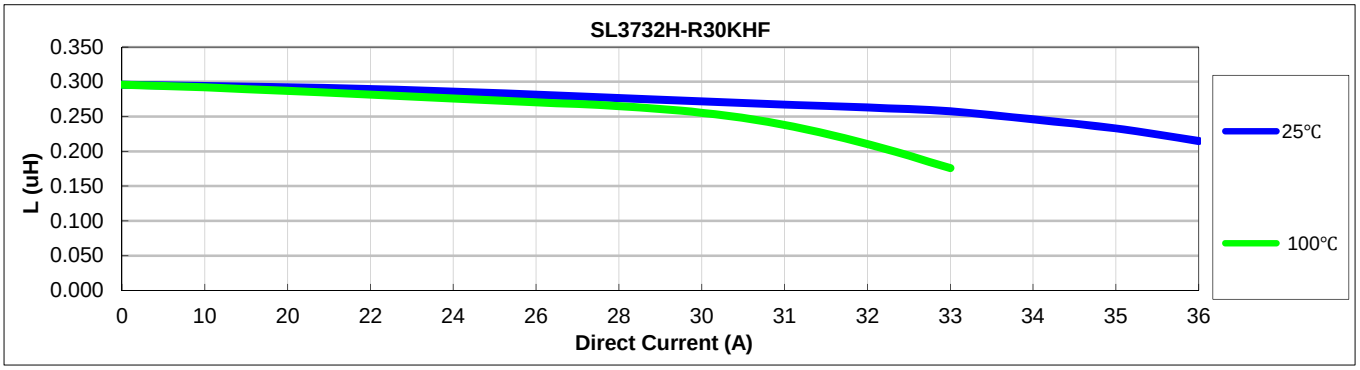
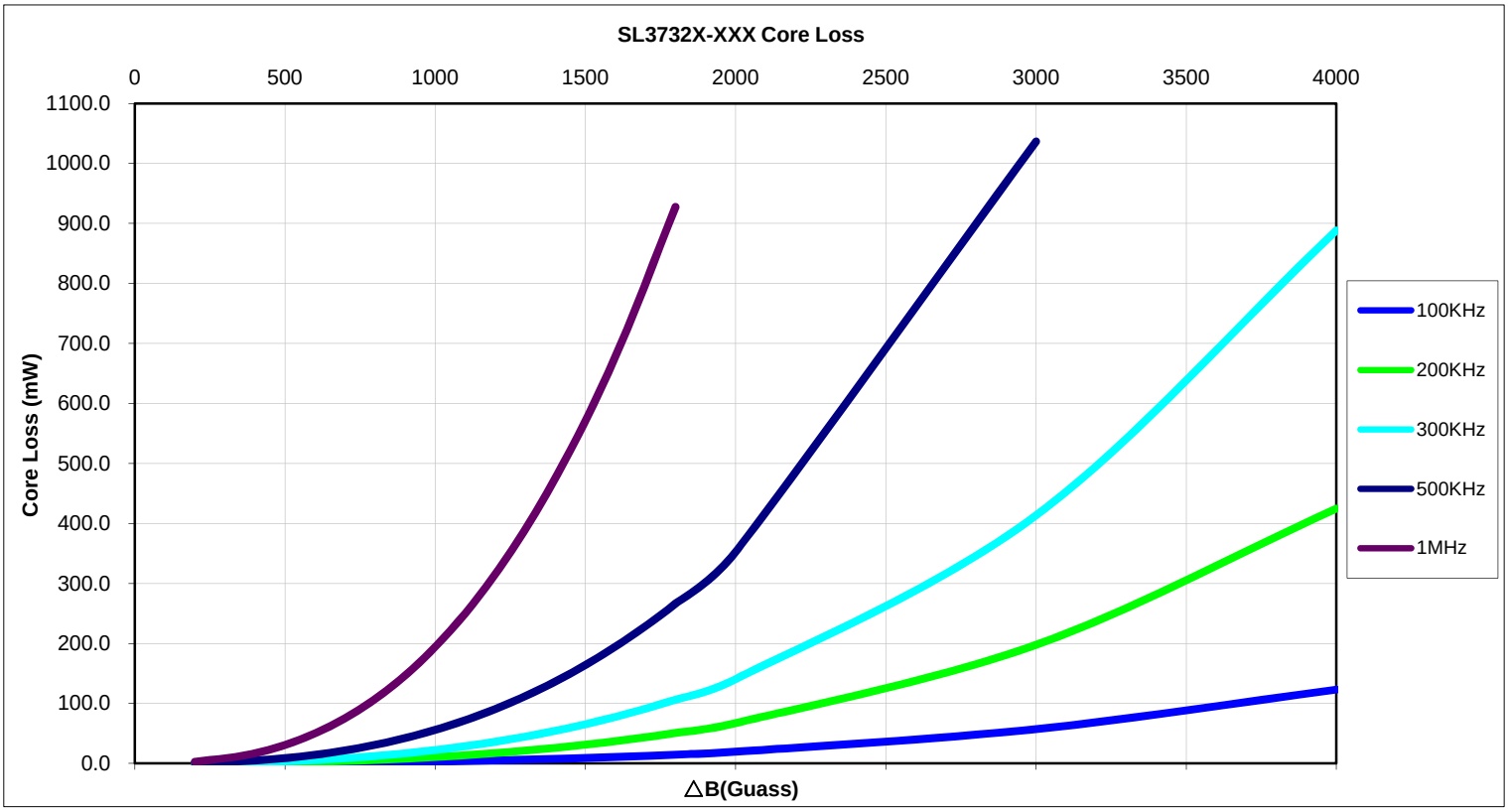




5. Core Loss:



Where △B=0.40*L(nH)*△I