

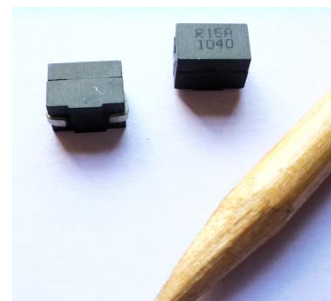


SL3732 Series



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 8.0mm Max. height .
- Foot Print 9.6 x 6.4 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 ± 0.2	B Max.	C ± 0.2	D ± 0.2	E Ref.	F ± 0.2	G ± 0.3	H Ref.	Fig
6.2	9.5	7.8	9.4	4.4	2.2	2.5		1
6.2	9.5	7.8	9.4	4.4	2.2	2.5	0.7	2

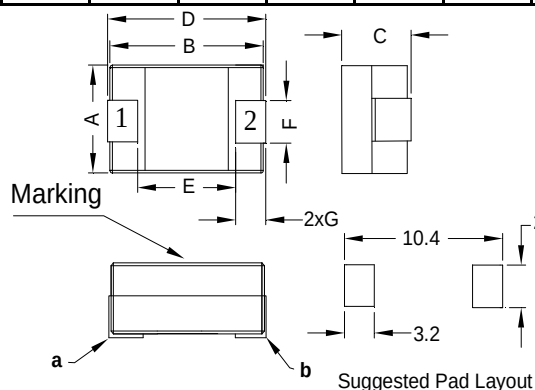
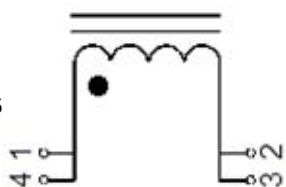


Fig 1



SCHEMATIC DIAGRAM

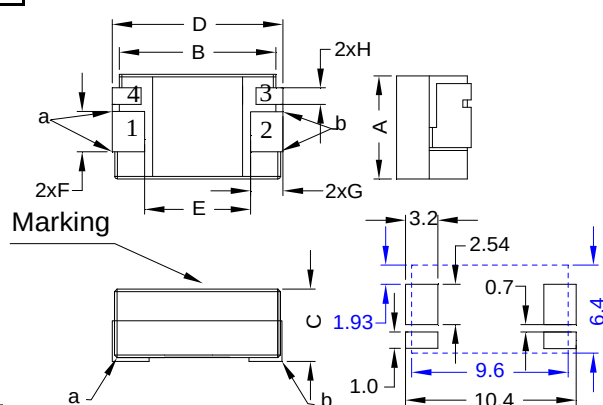


Fig 2

Suggested Pad Layout

3. Electrical Characteristic of SL3732 Series:

Part Number	Inductance (nH) 10% or 15%	DCR (mΩ) ± 5.0%	Isat ¹ (A) @25°C	Isat ² (A) @100°C	Irms (A) @25°C	Fig
SL3732A-R10KHF	100 , 10%	0.29	95.0	85.0	51.0	1
SL3732A-R12KHF	120 , 10%	0.29	80.0	70.0	51.0	1
SL3732A-R15KHF	150 , 10%	0.29	67.0	57.0	51.0	1
SL3732A-R18KHF	180 , 10%	0.29	47.0	42.0	51.0	1
SL3732A-R22KHF	220 , 10%	0.29	43.0	34.0	51.0	1
SL3732A-R28KHF	280 , 10%	0.29	29.0	24.0	51.0	1
SL3732A-R30KHF	300 , 10%	0.29	28.0	23.0	51.0	1
SL3732A-R40LHF	400 , 15%	0.29	18.0	15.0	51.0	1
SL3732A-R51LHF	510 , 15%	0.29	14.0	11.0	51.0	1
SL3732C-R12KHF	120 , 10%	0.29	75.0	62.0	51.0	2
SL3732C-R15KHF	150 , 10%	0.29	66.0	55.0	51.0	2
SL3732C-R22KHF	220 , 10%	0.29	40.0	31.0	51.0	2
SL3732C-R28KHF	280 , 10%	0.29	27.0	21.0	51.0	2
SL3732C-R30KHF	300 , 10%	0.29	25.0	20.0	51.0	2



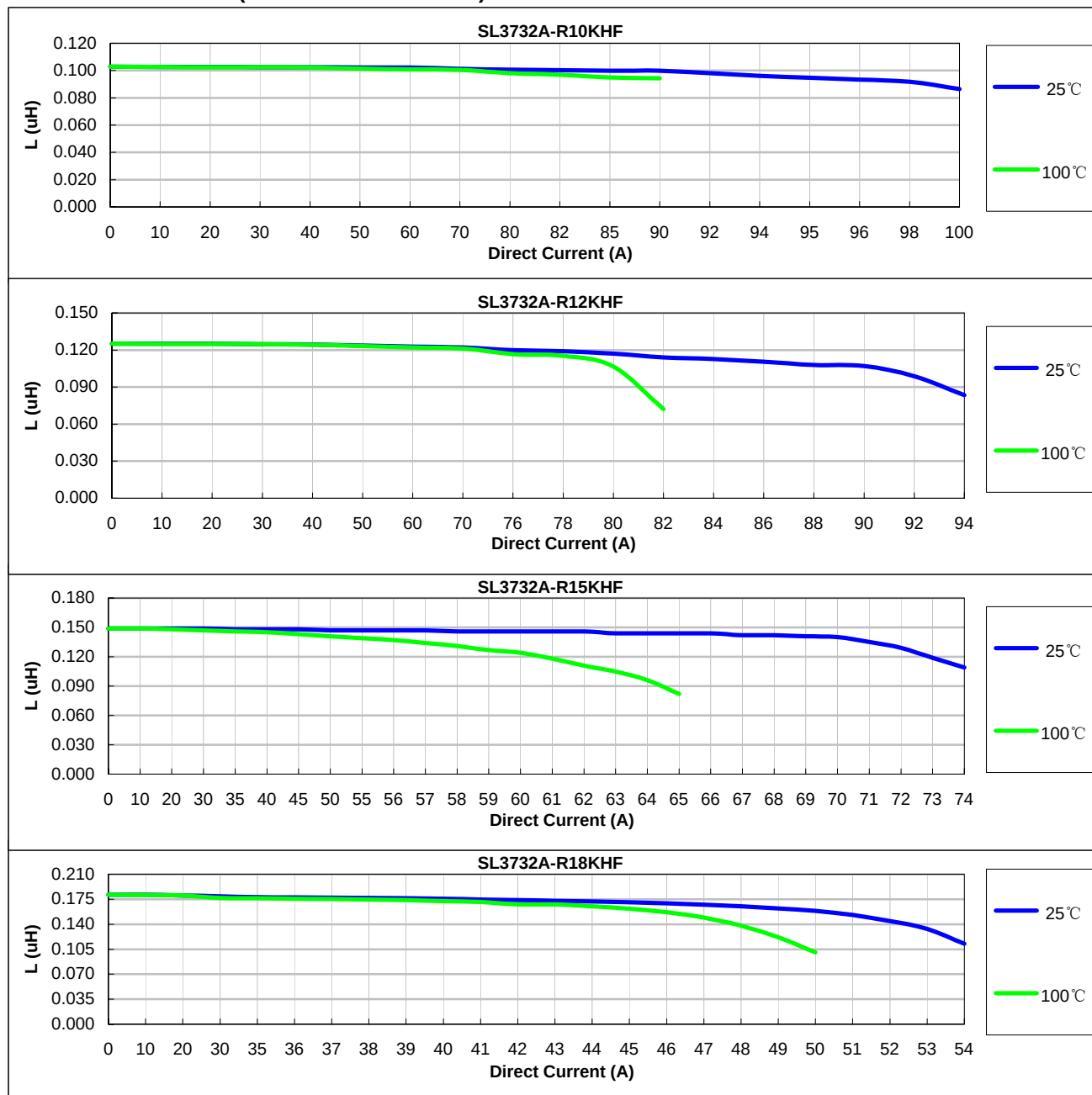
SL3732 Series



Note:

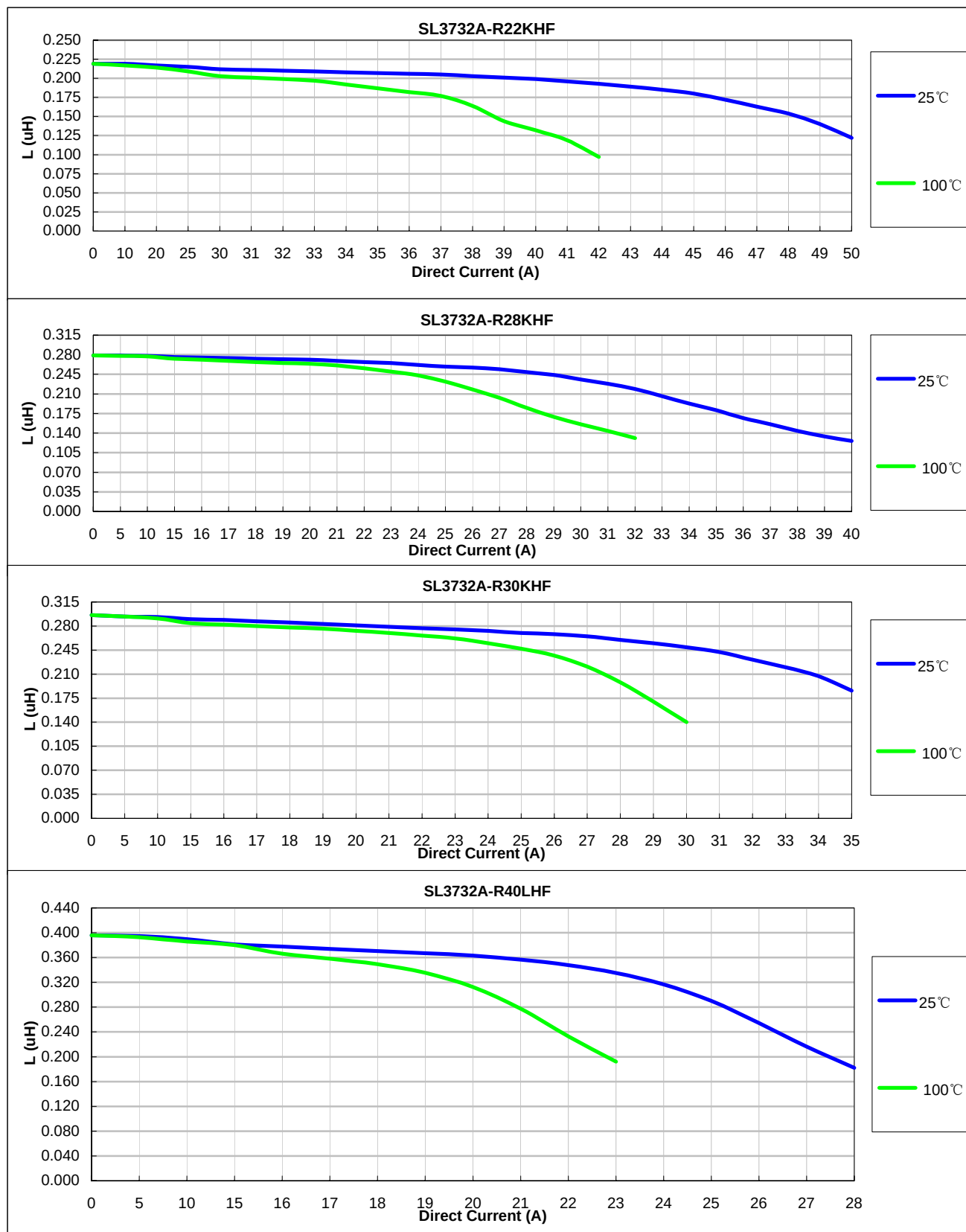
- 1>.Open Circuit Inductance (OCL) test condition:100KHz,1.0Vrms,0Adc ,at 25°C.
- 2>.Full Load Inductance (FLL) Test condition:100KHz,1.0Vrms ,Isat ;(Ta=25°C).
- 3>.Isat¹ & Isat² : DC current that will cause inductance to drops approximately by 20% ;
- 4>. Irms: DC current for an approximate temperature rise of 40°C 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):



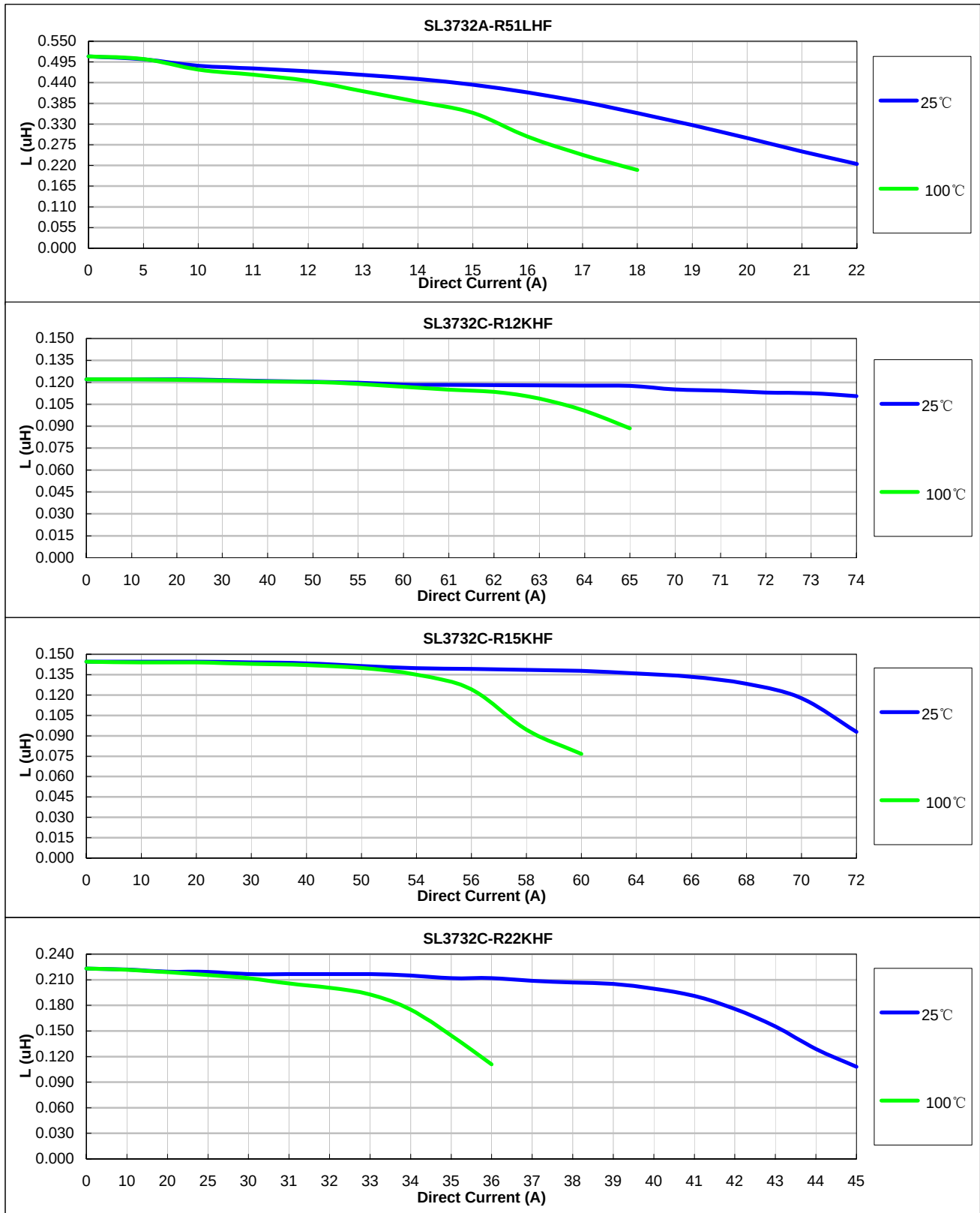


SL3732 Series



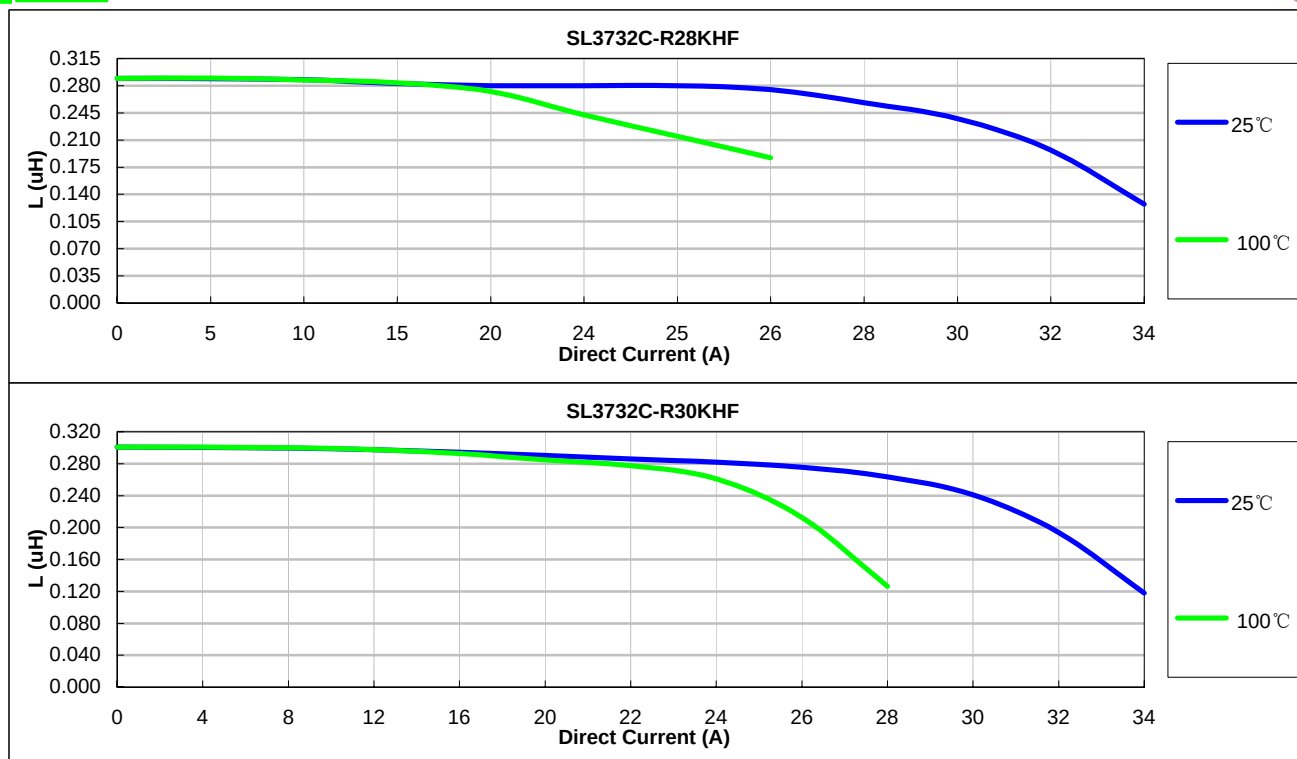


SL3732 Series

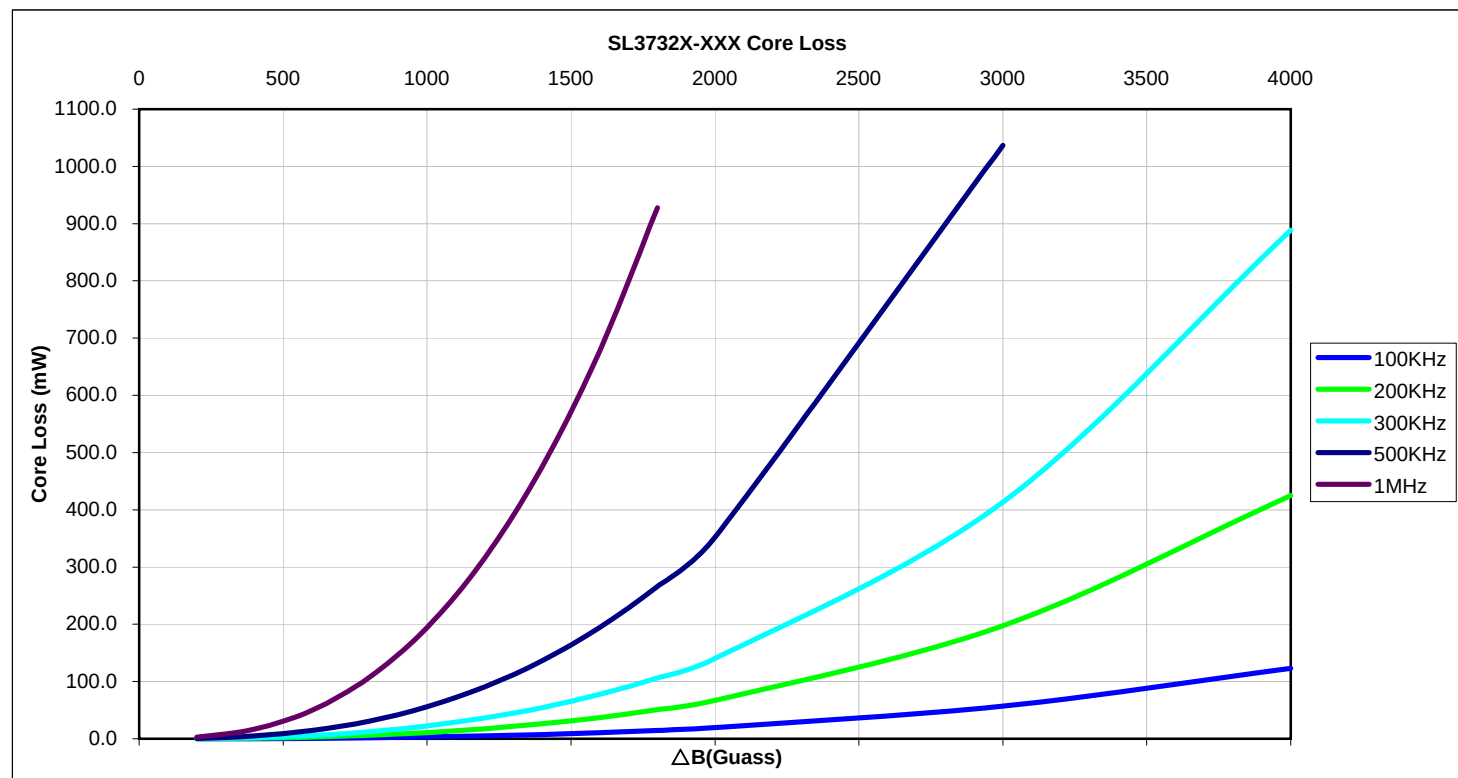




SL3732 Series



5. Core Loss:



Where $\Delta B = 0.40 \cdot L(nH) \cdot \Delta I$