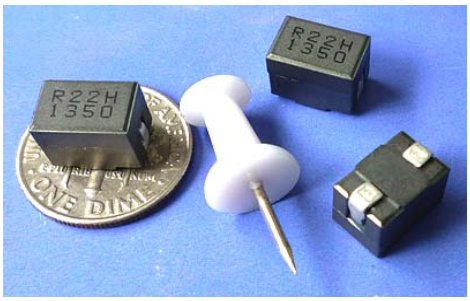
SL3732H Series

1. Features:

- Ferrite based SMD Inductor with lower core loss.
- Inductance Range: 100.0 nH to 470.0 nH , Custom values are welcomed.
- High current output chokes, upto 95.0 Amp with approx. 20% roll off.
- Low Profile 7.80/7.90/8.00mm typical height .
- 9.60 x 6.40 mm Foot Print.
- Ideal for Buck Converter, VRM & High Density Board Design.
- Operating frequency up to 1.0 MHz.
- Operating Temperature Range -55°C to + 130°C. RoHs & HF compliant.
- T & R Qtys: 650 pcs , 13" Reel.

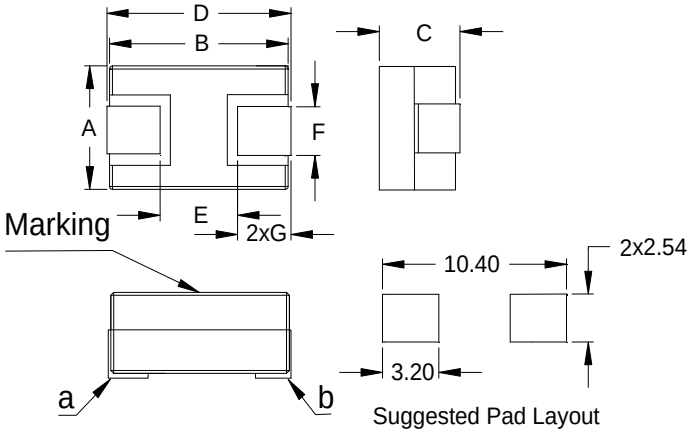


2. Electrical Characteristic of SL3732H Series:

Part Number	OCL [1] (nH) ± 10% or 15%	L @ Isat1 [2] (nH) Min.	DCR [3] (mΩ) ± 5.0%	Isat1 [4] (A) @25℃	Isat2 [4] (A) @100℃	Irms [5] (A) @25℃	Dim. C (mm) ± 0.20
SL3732H-R10KHF	100.00 , 10%	72.00	0.29	95.00	85.00	51.00	8.00
SL3732H -R12KHF	120.00 , 10%	86.40	0.29	81.00	70.00	51.00	7.90
SL3732H -R15KHF	150.00 , 10%	108.00	0.29	66.00	56.00	51.00	7.80
SL3732H -R18KHF	180.00 , 10%	129.60	0.29	55.00	49.00	51.00	7.80
SL3732H -R22KHF	220.00 , 10%	158.40	0.29	45.00	41.00	51.00	7.80
SL3732H -R28KHF	280.00 , 10%	201.60	0.29	35.00	32.00	51.00	7.80
SL3732H -R30KHF	300.00 , 10%	216.00	0.29	33.00	30.00	51.00	7.80
SL3732H -R33LHF	330.00 , 15%	237.60	0.29	26.00	22.00	51.00	7.80
SL3732H -R39LHF	390.00 , 15%	280.80	0.29	22.00	19.00	51.00	7.80
SL3732H -R47LHF	470.00 , 15%	338.40	0.29	18.00	15.00	51.00	7.80

3. Mechanical Dimension(Unit:mm):

A ± 0.20	B (Max.)	C ± 0.20	D ± 0.20	E (Ref.)	F ± 0.20	G ± 0.30
6.20	9.50	see table above	9.40	4.40	2.20	2.50



First Angle Projection:

Note:

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

2>.L @ Isat and L @ Irms Test condition: 100KHz,1.0Vrms (Ta=25℃).

3>.The nominal DCR is measured from point" a " to point" b ", as shown above on the mechanical drawing (Ta=25℃).

4>.Isat1,Isat2 & Isat3 : DC current that will cause inductance to drop approximately by 20%.

5>. 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 as verified in the end application.

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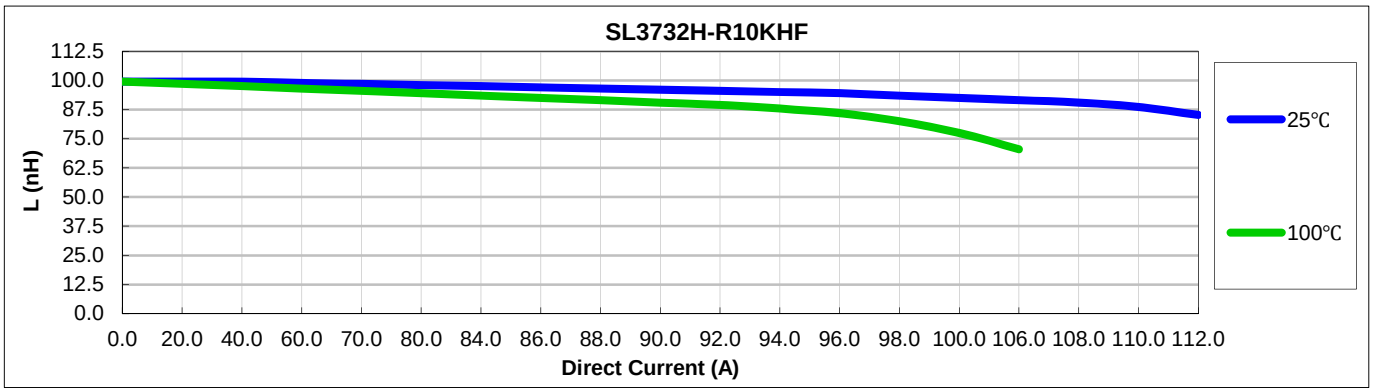
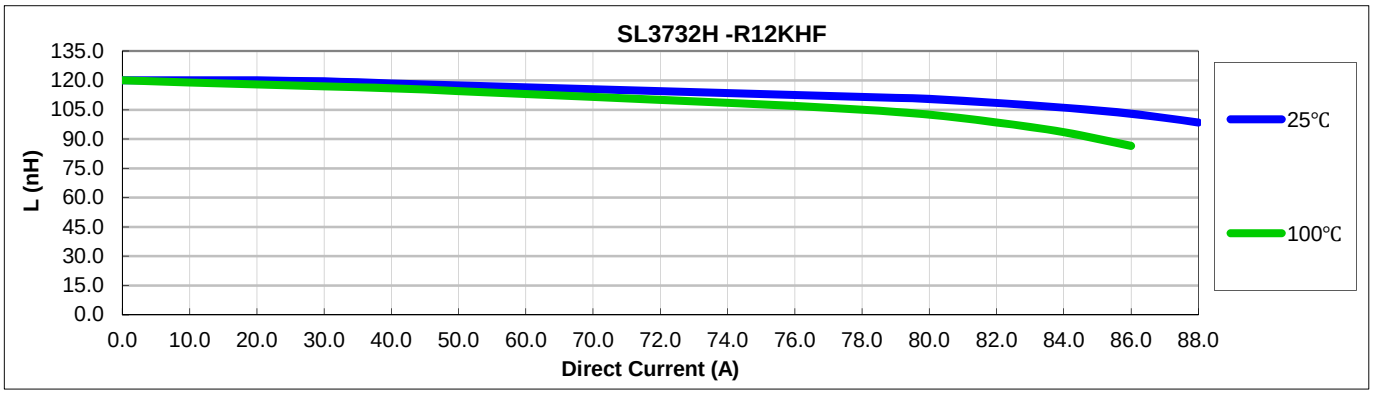
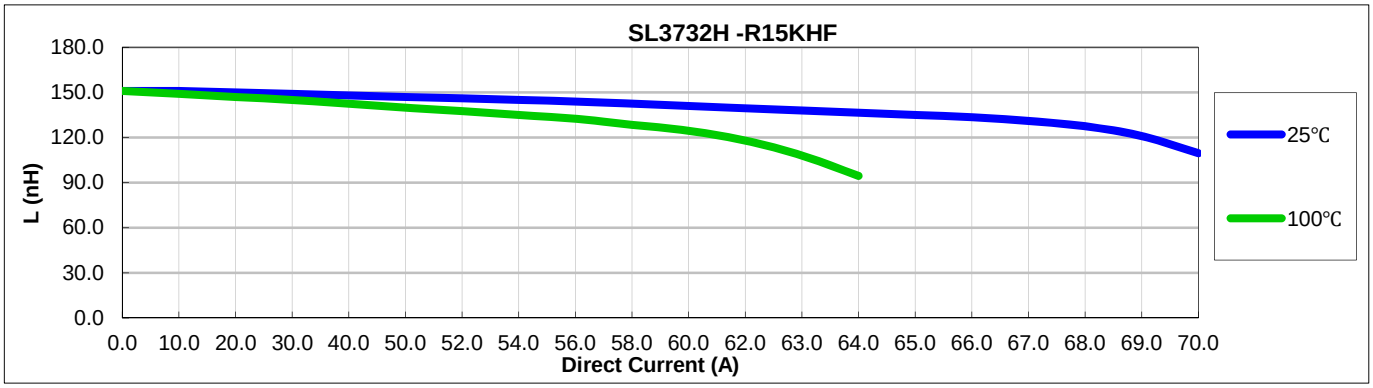
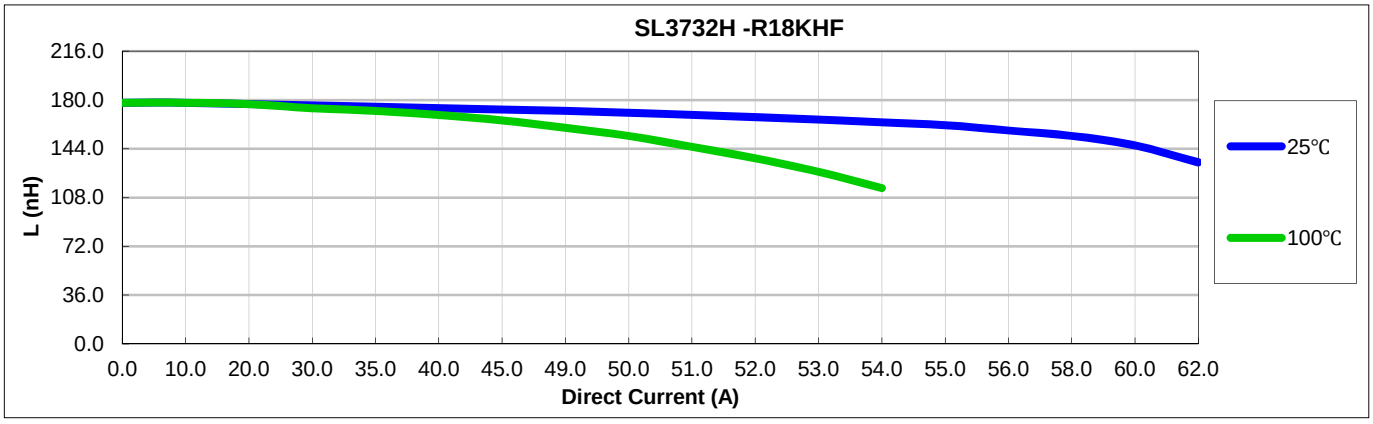
SL3732H Series

4. Inductance Characteristics (Inductance vs. Current):









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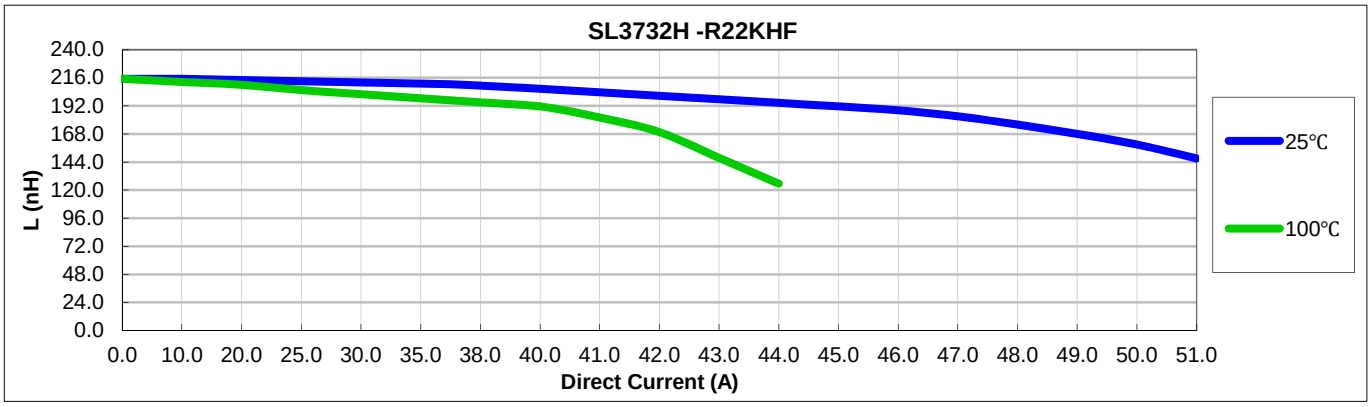
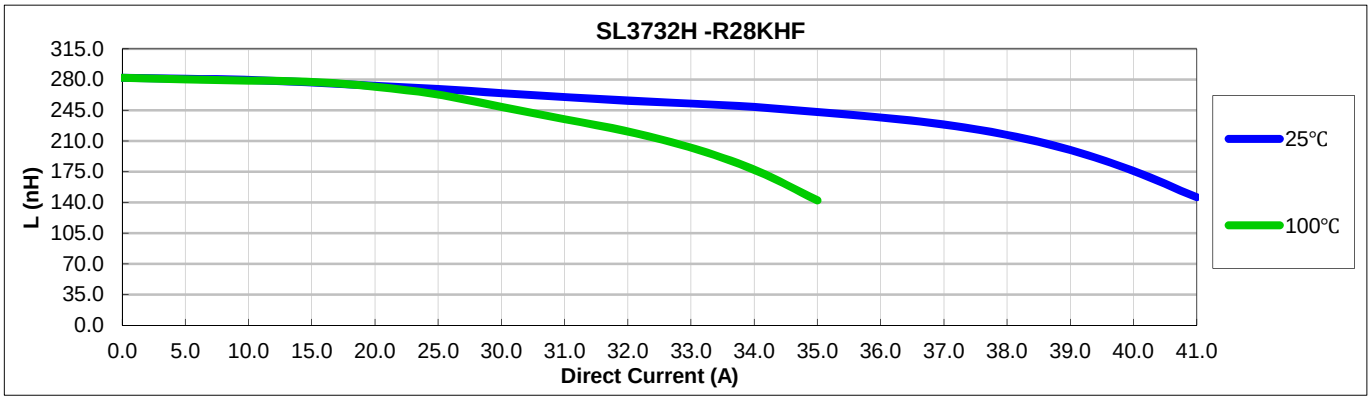
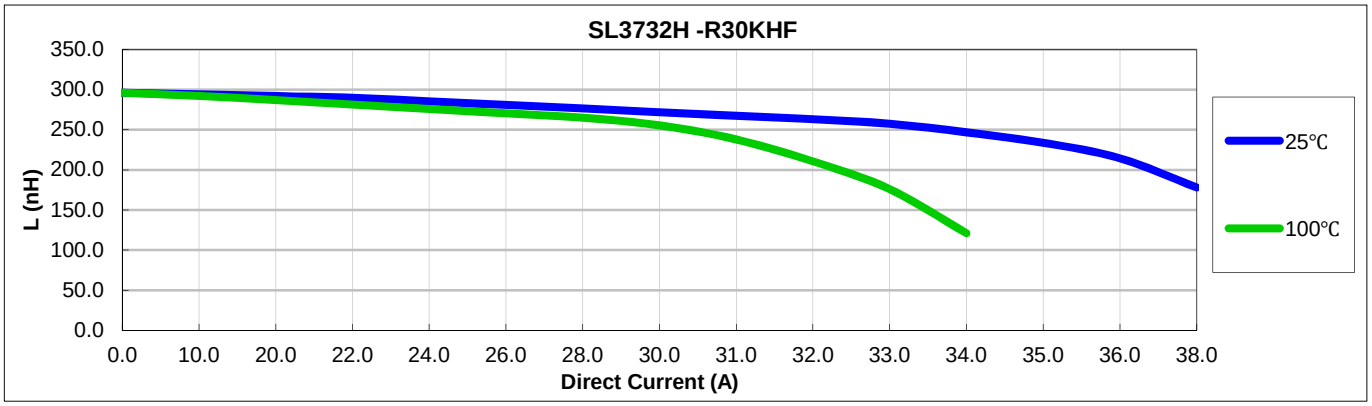
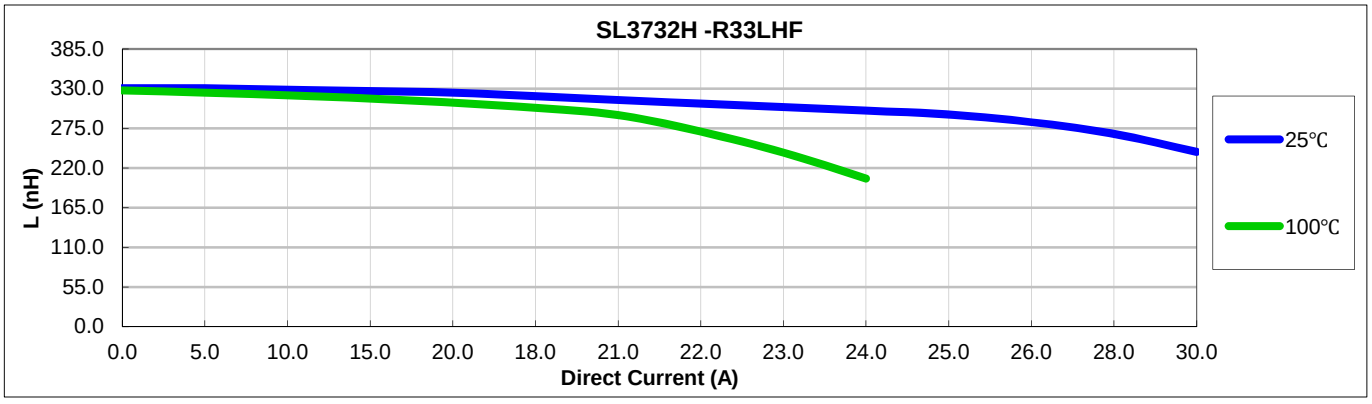
Inductance vs. Current









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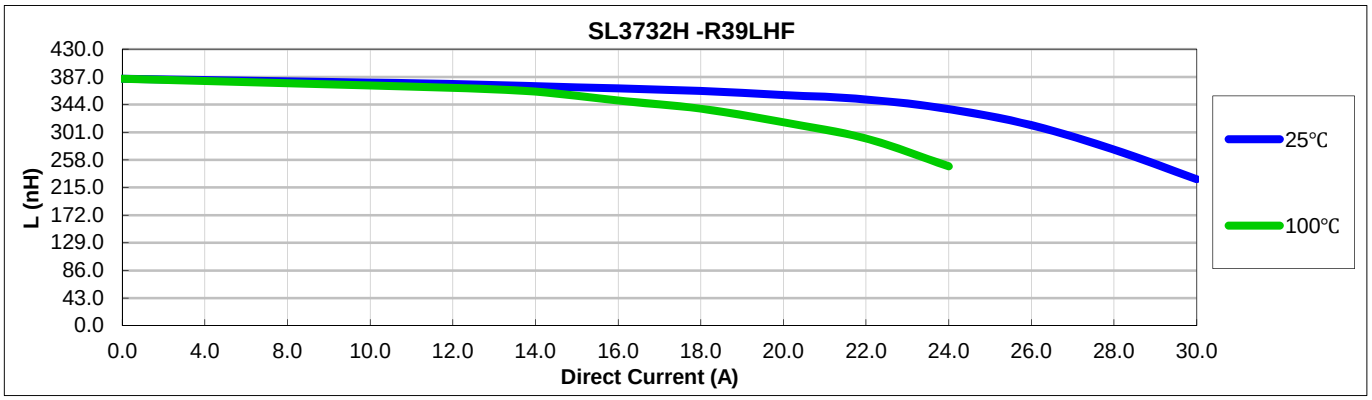
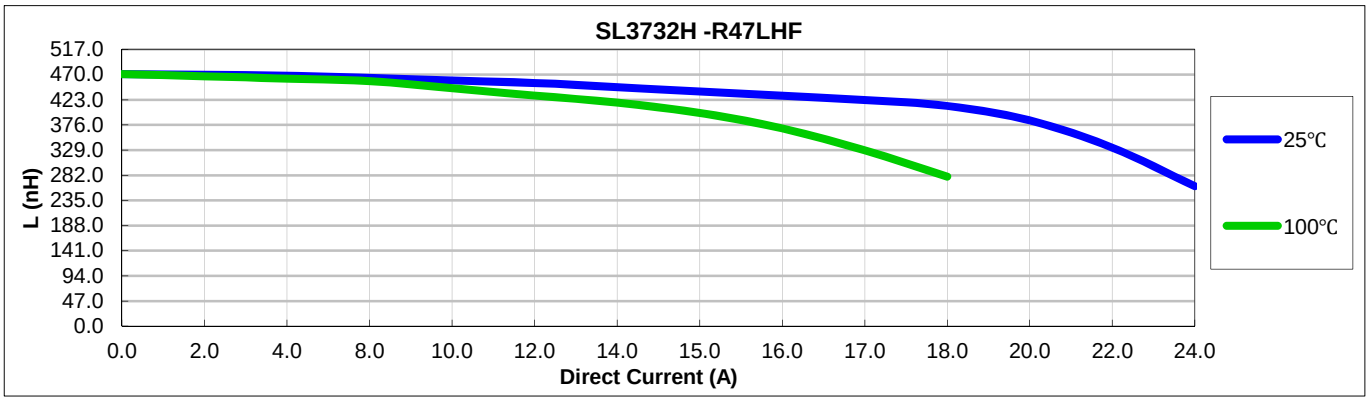
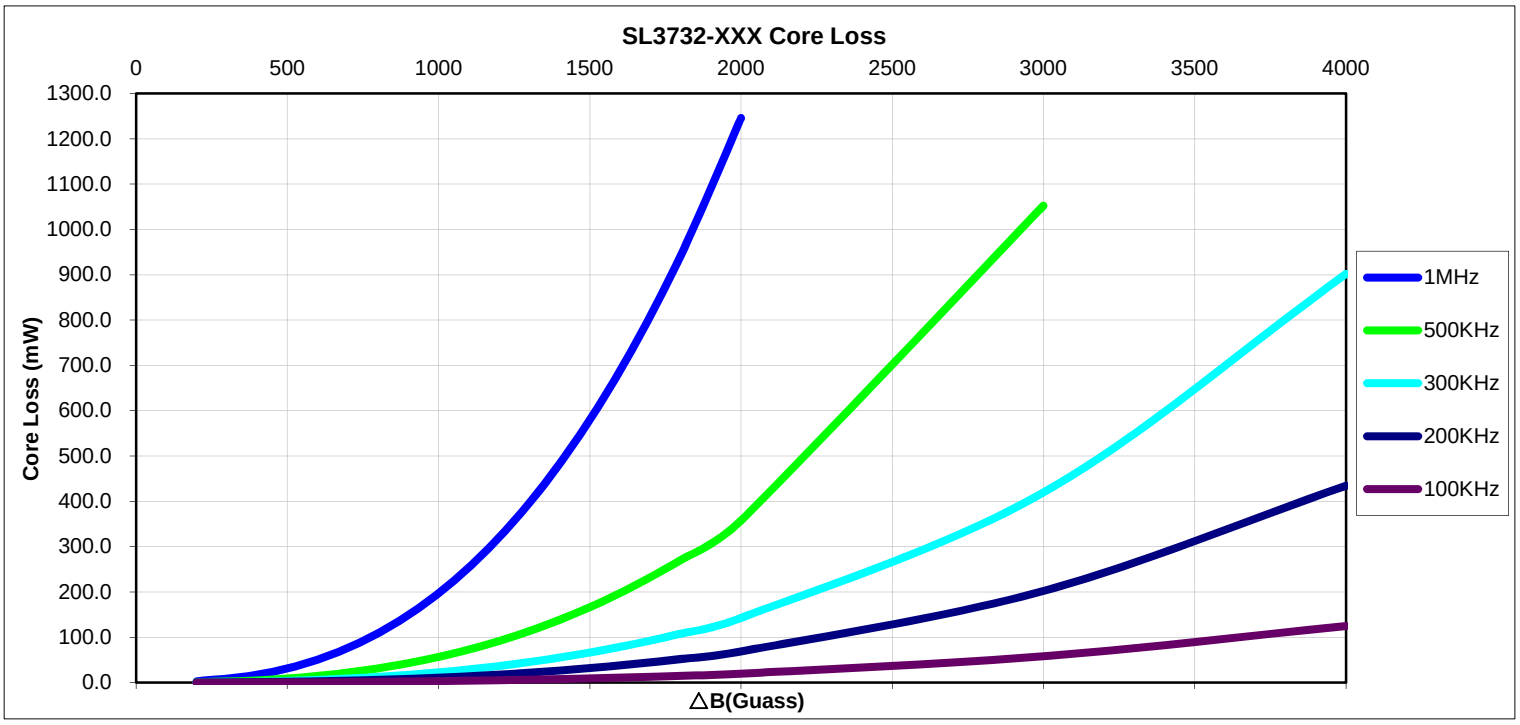
Inductance vs. Current





5. Core Loss:



Where △B=0.40*L(nH)*△I

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