SL3732H Series

1. Features of SL3732H Series:

- 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,up to 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 of up to 5.0MHz.
- Operating temperature range of -55° C to + 130° C. RoHS & HF compliant.
- T & R Qty's: 650pcs, 13" Reel.

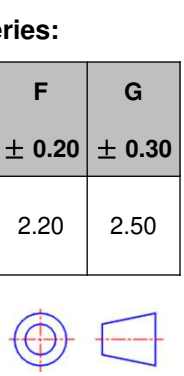
2. Electrical Characteristics of SL3732H Series:

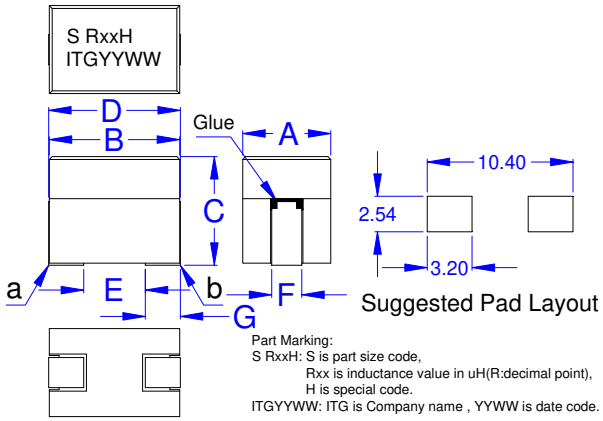
ITG Part Number	OCL [1] (nH) ± 10% or 15%	L @ Isat1 [2] (nH) Min.	DCR [3] (mΩ) ± 5.0%	Isat1 [4] (A) @25℃	Isat2 [4] (A) @100℃	Irms [5] (A) @25℃	Dim. C (mm) ± 0.20
SL3732H-R10KHF	100.00, 10%	72.00	0.29	95.00	85.00	51.00	8.00
SL3732H-R12KHF	120.00, 10%	86.40	0.29	81.00	70.00	51.00	7.90
SL3732H-R15KHF	150.00, 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 of SL3732H Series:

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

Third Angle Projection:





Part Marking:
S RxxH: S is part size code,
Rxx is inductance value in uH(R:decimal point),
H is special code.
ITGYYWW: ITG is Company name , YYWW is date code.

Notes:

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 : 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.
6. It is recommended the part temperature not exceed 130° C under worst case operating conditions as verified in the end application.

● **New York** *1 914 347 2474* ● **Taipei** *886 2 2698 8669* ● **Kaohsiung** *886 7 350 2275*
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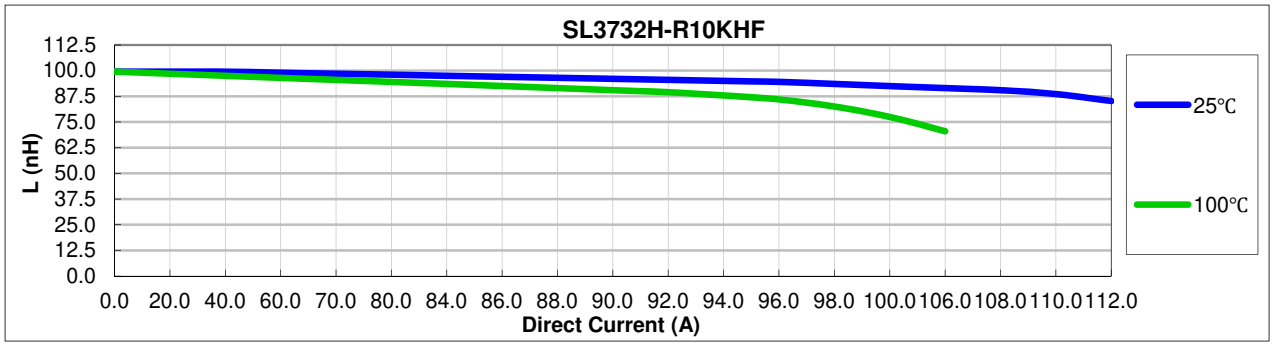
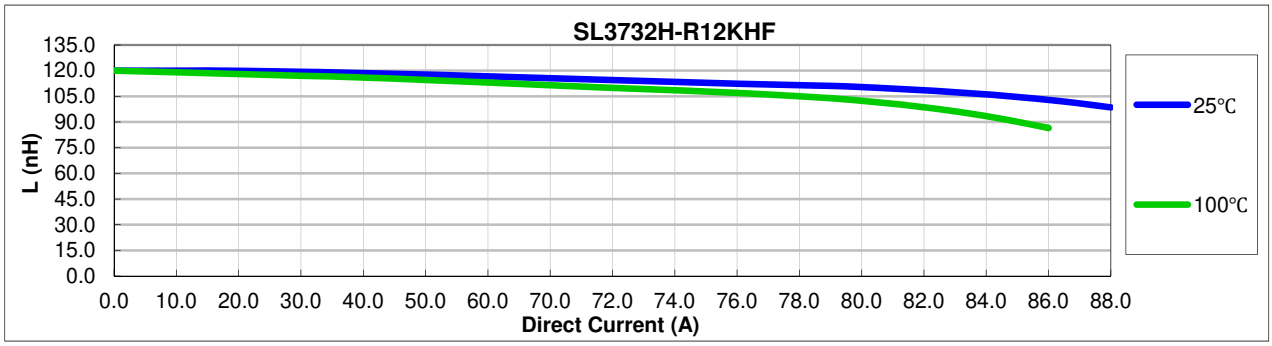
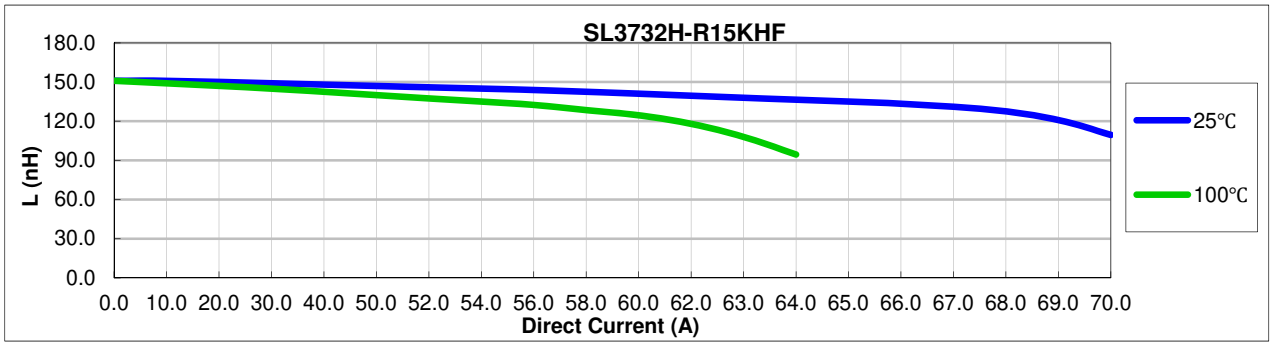
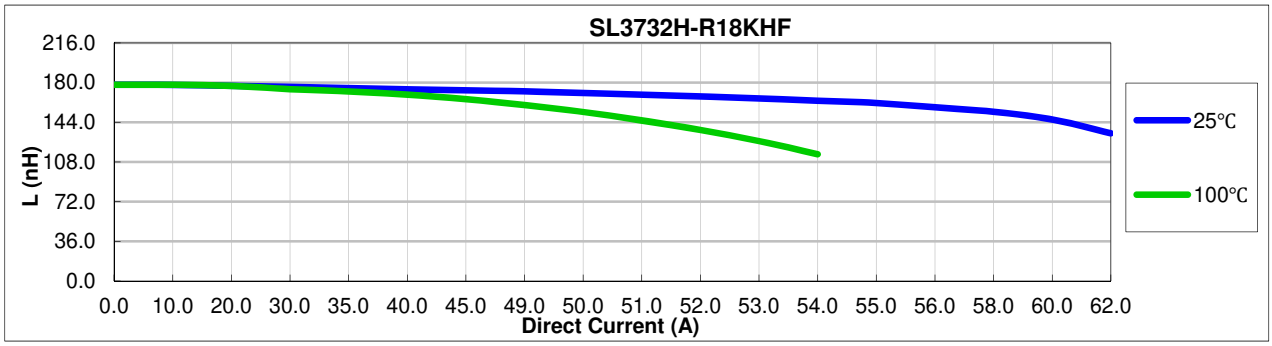
SL3732H Series

4. Inductance Characteristics of SL3732H Series (Inductance vs Current):









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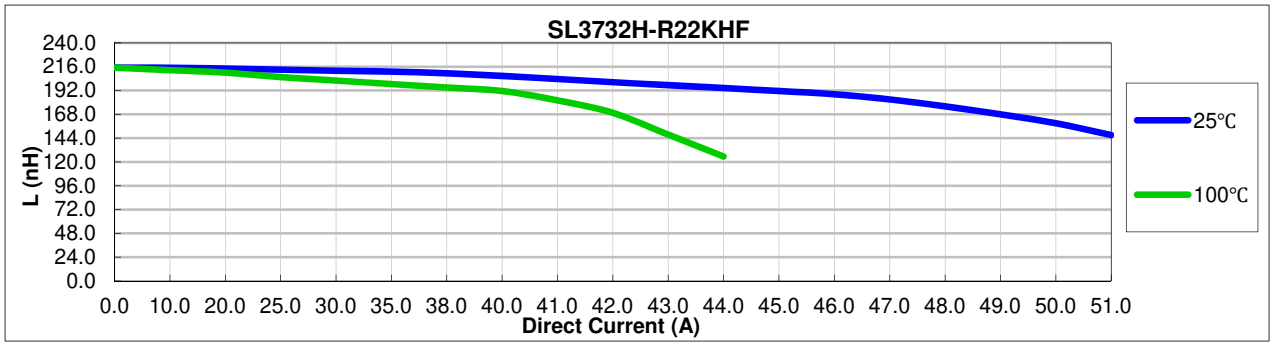

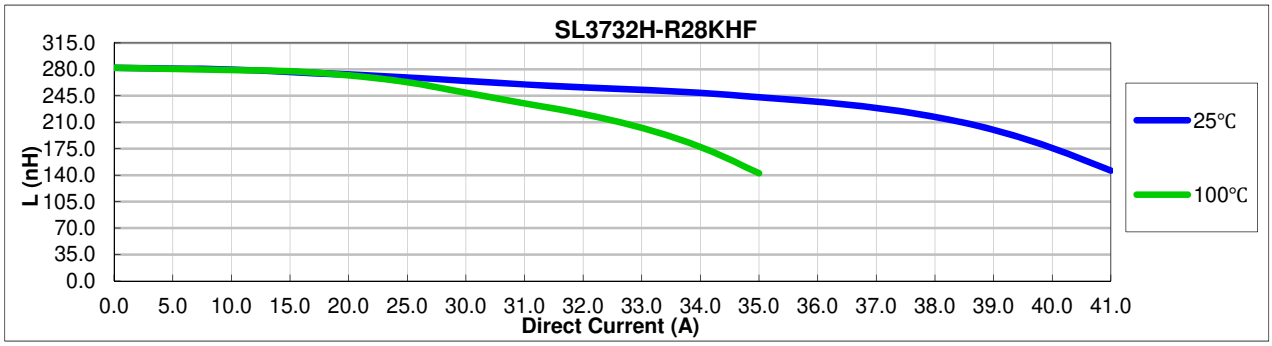

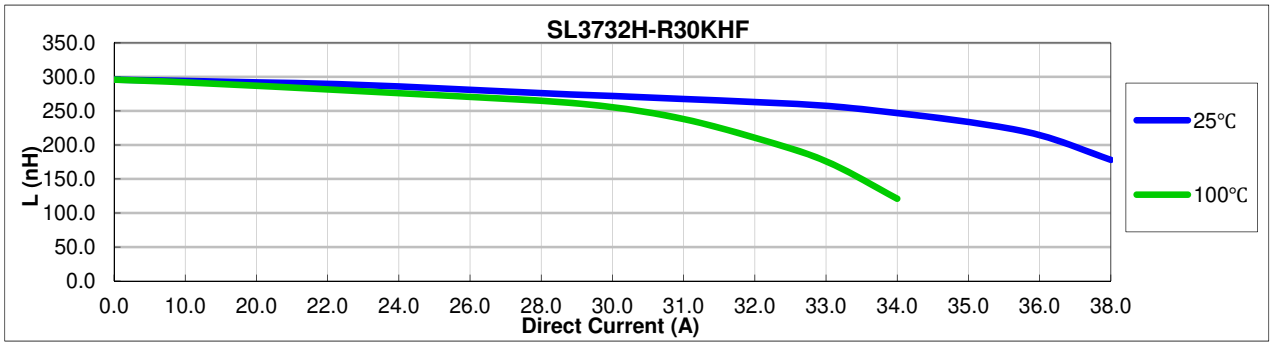

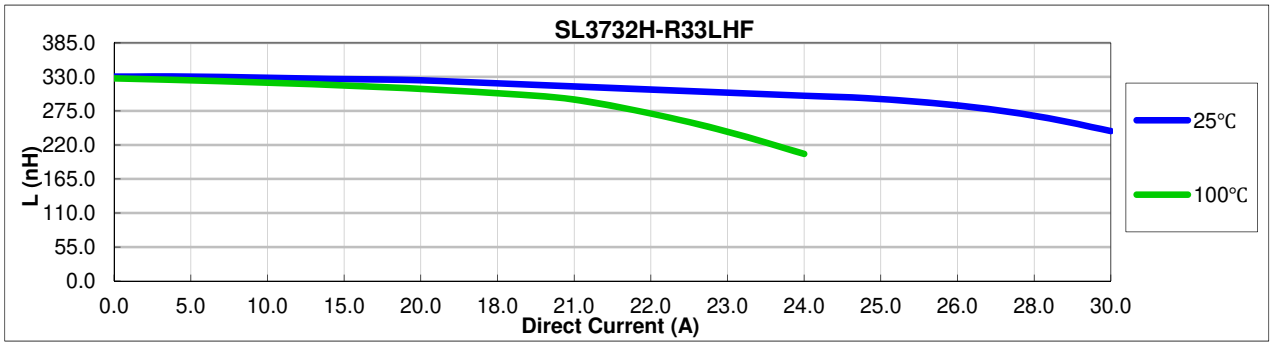

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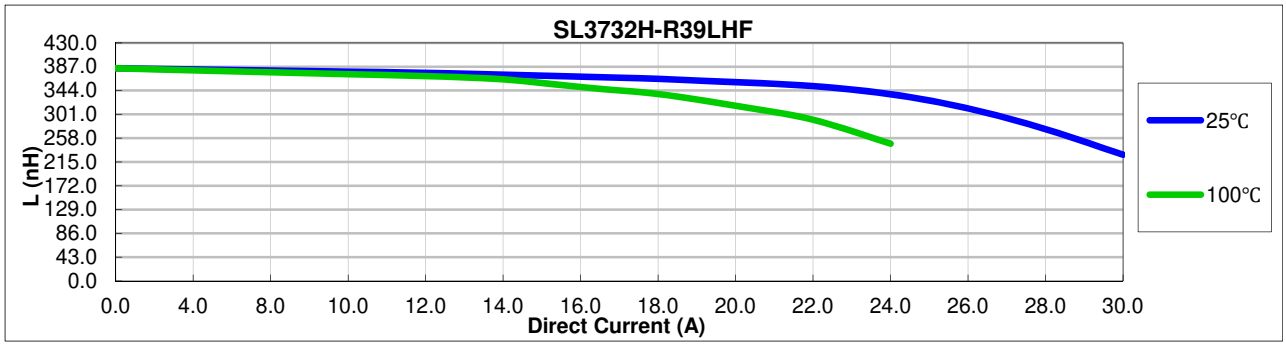
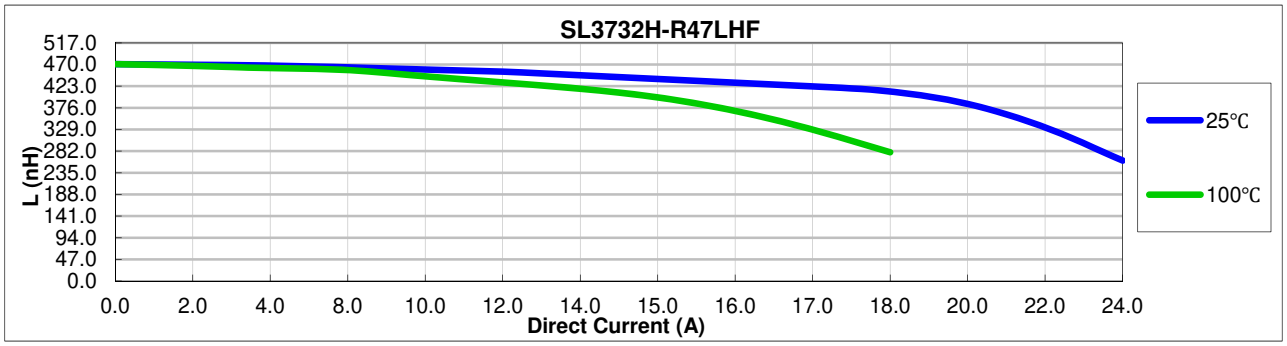
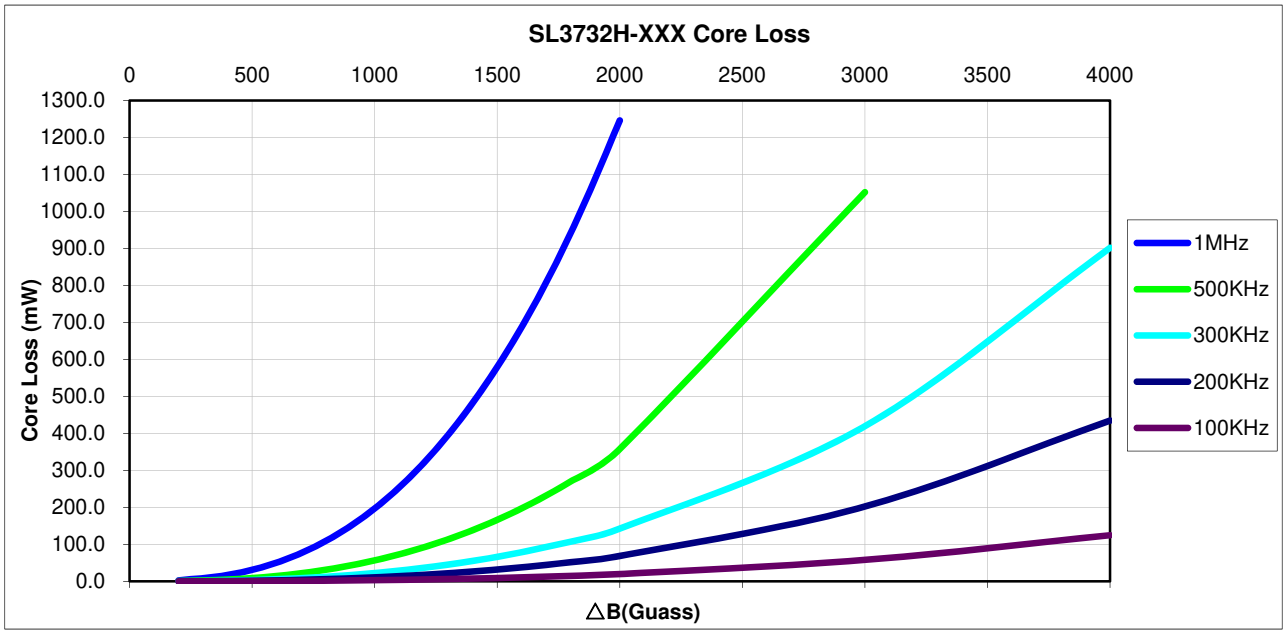




5. Core Loss:



Where △B=0.40*L(nH)*△I

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