



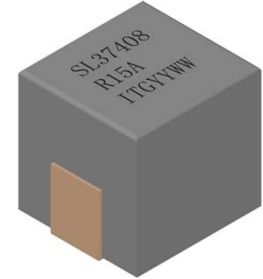
Halogen Free

# SL37408 Series



## 1. Features of SL37408 Series:

- Ferrite based SMD inductor with lower core loss.
- Inductance range: 100.0 nH to 330.0 nH , custom values are welcomed.
- High current output chokes, up to 120.0 Amp with approx. 20% roll off.
- Low profile 10.20 / 10.00 mm Max. height.
- 9.41 x 8.00 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: 400pcs, 13" Reel.

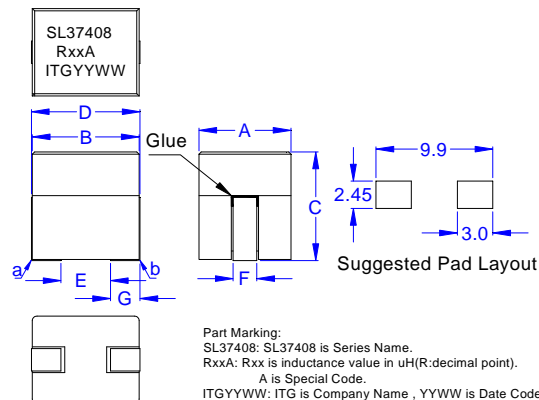


## 2. Electrical Characteristics of SL37408 Series:

ITG Part Number	OCL <sup>1</sup> (nH) ± 10%	L @ Isat1 <sup>2</sup> (nH) Min.	DCR <sup>3</sup> (mΩ) ± 5.0%	Isat1 <sup>4</sup> (A) @25°C	Isat2 <sup>4</sup> (A) @45°C	Isat3 <sup>4</sup> (A) @100°C	Irms <sup>5</sup> (A) @25°C	Dim. C (mm) Max.
SL37408A-R10KHF	100.00	72.00	0.23	120.00	115.00	107.00	60.00	10.20
SL37408A-R12KHF	120.00	86.40	0.23	98.00	94.00	87.00	60.00	10.00
SL37408A-R15KHF	150.00	108.00	0.23	78.00	75.00	69.00	60.00	10.00
SL37408A-R18KHF	180.00	129.60	0.23	64.00	61.00	58.00	60.00	10.00
SL37408A-R22KHF	220.00	158.40	0.23	52.00	49.00	46.00	60.00	10.00
SL37408A-R27KHF	270.00	194.40	0.23	42.00	39.00	37.00	60.00	10.00
SL37408A-R30KHF	300.00	216.00	0.23	37.00	34.00	31.00	60.00	10.00
SL37408A-R33KHF	330.00	237.60	0.23	33.00	30.00	27.00	60.00	10.00

## 3. Mechanical Dimension of SL37408 Series:

A	B	C	D	E	F	G
Max.	Max.	Max.	Max.	Ref.	± 0.20	± 0.30
8.00	9.25	see table above	9.41	4.25	2.00	2.50



### Notes:

1. Open Circuit Inductance (OCL) test condition: 100KHz,0.1Vrms,0A<sub>dc</sub> at 25°C.
2. L @ Isat and L @ I<sub>rms</sub> Test condition: 100KHz,1.0Vrms (T<sub>a</sub>=25°C).
3. The nominal DCR is measured from point "a" to point "b", as shown above on the mechanical drawing (T<sub>a</sub>=25°C).
4. Isat1 , Isat2 & Isat3 : DC current that will cause inductance to drop approximately by 20%.
5. I<sub>rms</sub>: 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.
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  
 ● Japan 81 568 85 2830 ● Shenzhen 86 755 8418 6263 ● Shanghai 86 21 5424 5141 ● Hong Kong 852 9688 9767  
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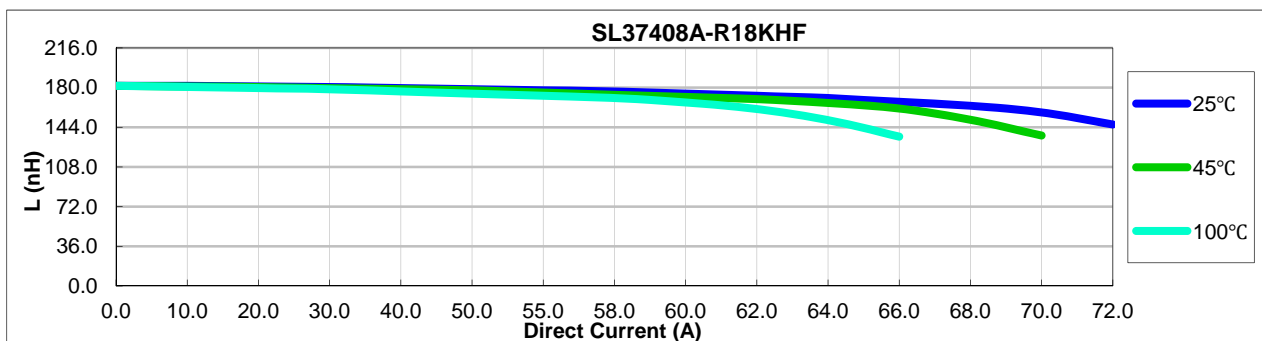
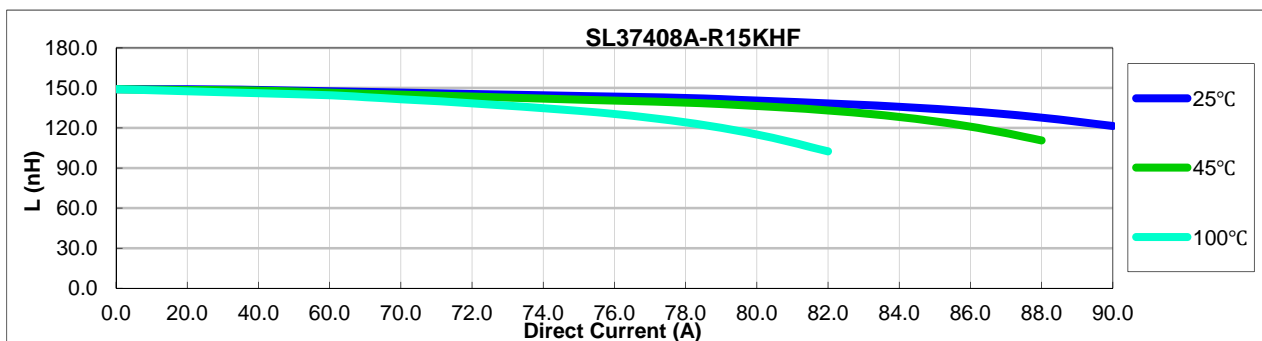
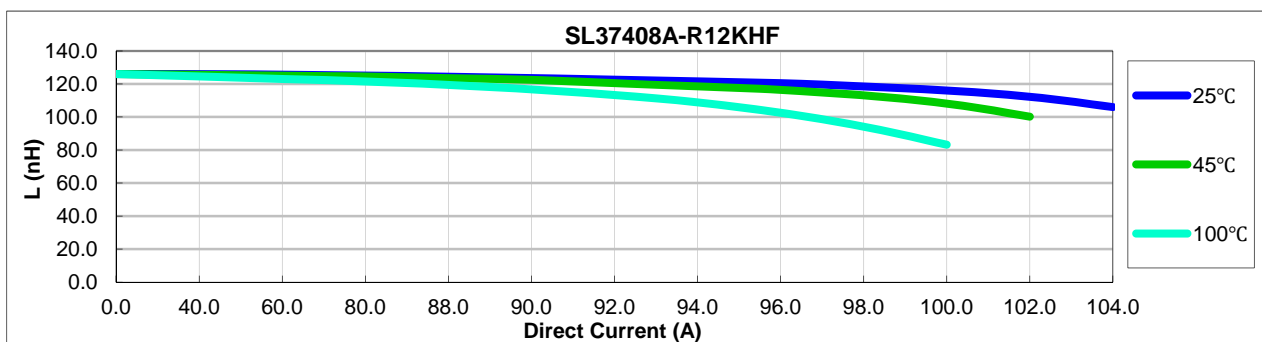
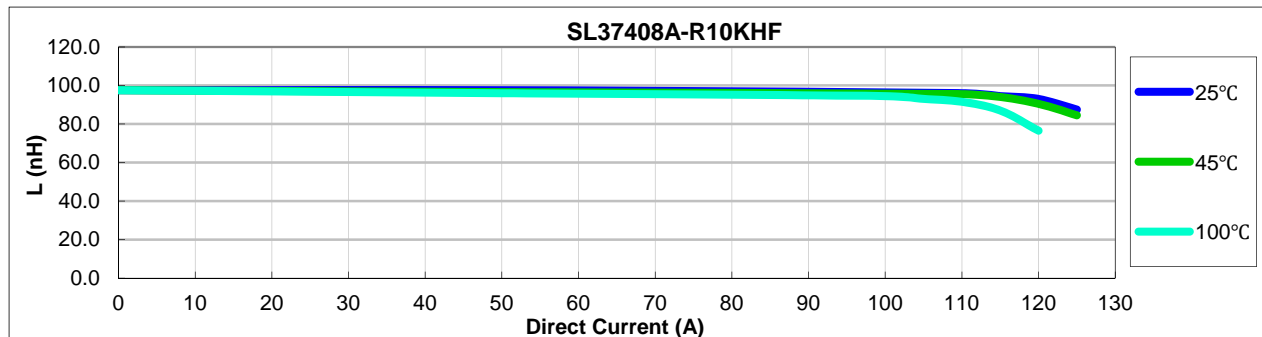
*\*Due to continuous product improvement, all specifications are subject to change without prior notice. Kindly contact an ITG field application engineer or a sales representative prior to purchase.*



# SL37408 Series



## 4. Inductance Characteristics of SL37408 Series (Inductance vs Current):



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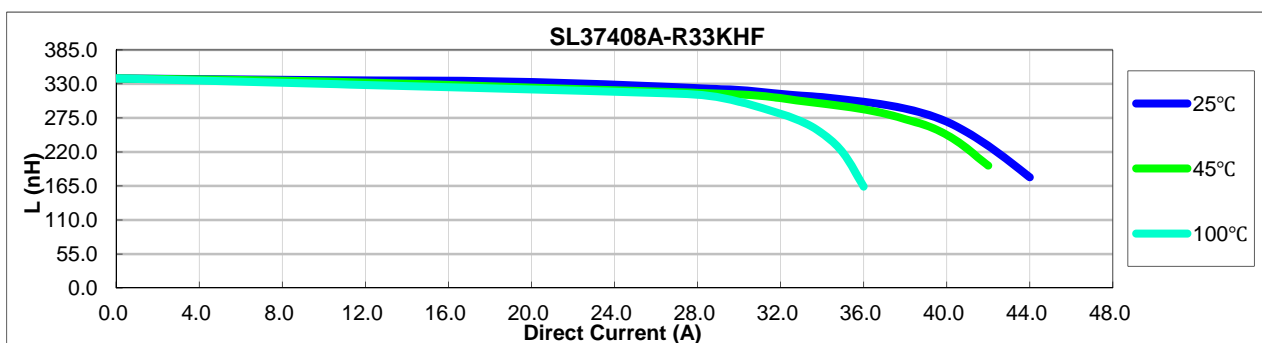
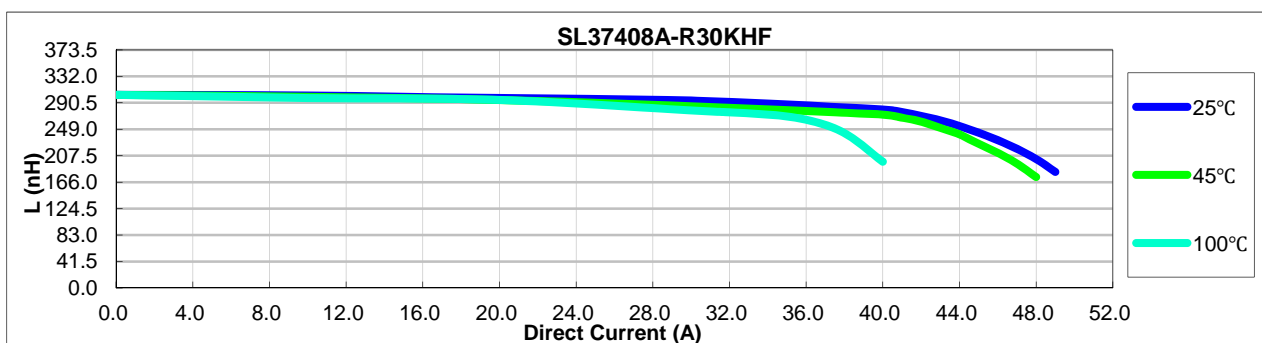
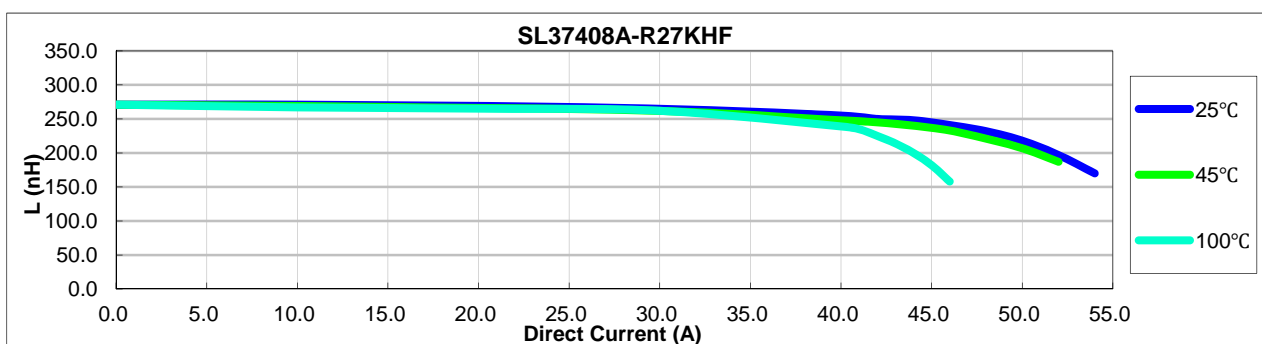
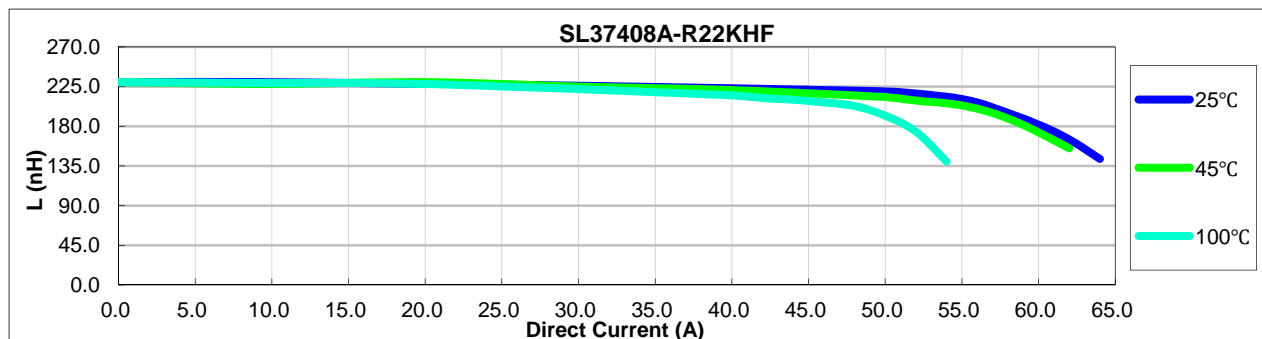
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