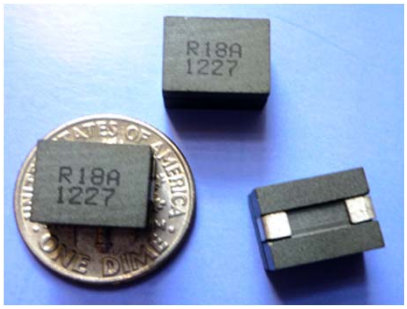
SL4128 Series

1. Features:



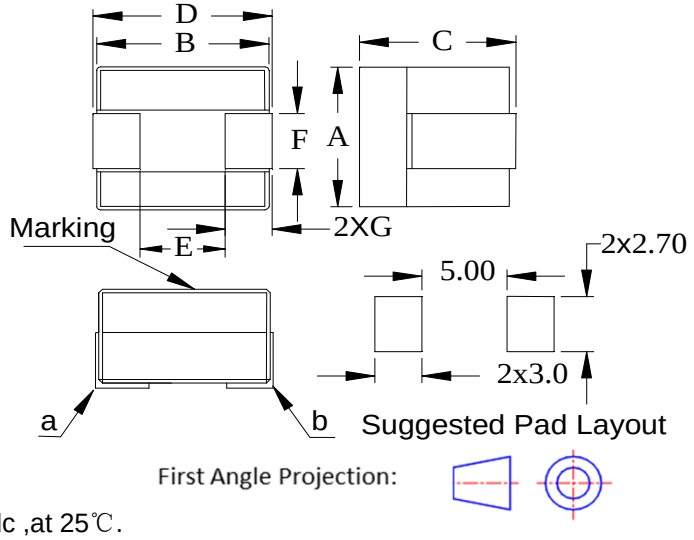
- Ferrite based SMD Inductor with lower core loss.
- Inductance:150nH to 390nH . Custom values are welcomed.
- High current output chokes, upto 75.0 Amp with approx. 20% roll off.
- Low Profile 7.00mm Max. height .
- Foot Print 10.50 x 8.00 mm Max.
- Ideal for Buck Converter, VRM & High Density Board Design.
- Operating frequency up to 1 MHz application.
- Operating Temperature Range -55°C to + 130°C , RoHs & HF compliance .
- T & R Qtys: 750 pcs , 13" Reel ;

2. Electrical Characteristic of SL4128 Series:

Part Number	Inductance (nH) ± 10% or 15%	L @ Isat1 [2] (nH) Min.	DCR [3] (mΩ) ± 5.0%	Isat1 [4] (A) @25℃	Isat2 [4] (A) @75℃	Isat3 [4] (A) @100℃	Irms [5] (A) @25℃
SL4128A-R15KHF	150.0 , 10%	108.00	0.29	75.00	67.00	61.00	61.00
SL4128A-R18KHF	180.0 , 10%	129.60	0.29	60.00	54.00	50.00	61.00
SL4128A-R22KHF	220.0 , 10%	158.40	0.29	50.00	46.00	40.00	61.00
SL4128A-R27KHF	270,0 , 10%	194.40	0.29	41.00	37.50	33.00	61.00
SL4128A-R33KHF	330.0 , 10%	237.60	0.29	33.00	30.00	27.00	61.00
SL4128A-R39LHF	390.0 , 15%	280.80	0.29	28.00	25.00	22.50	61.00

3. Mechanical Dimension(Unit:mm):

A (Max.)	B (Max.)	C (Max.)	D (Max.)	E (Nom.)	F ± 0.20	G ± 0.30
8.00	10.25	7.00	10.50	5.60	2.20	2.50



Note:

1>.Open Circuit Inductance (OCL) test condition:100KHz,0.1Vrms,0Adc ,at 25℃.

2>.L @ Isat and L @ Irms Test condition:100KHz,0.1Vrms ; (Ta=25℃).

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

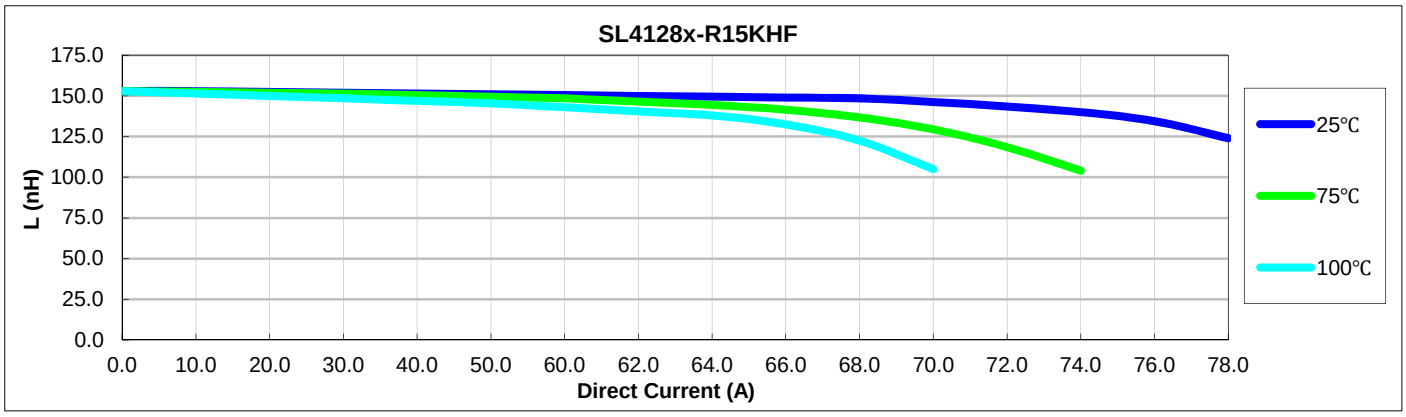
4>.Isat1,Isat2 & Isat3 : DC current that will cause inductance to drops approximately by 20% ;

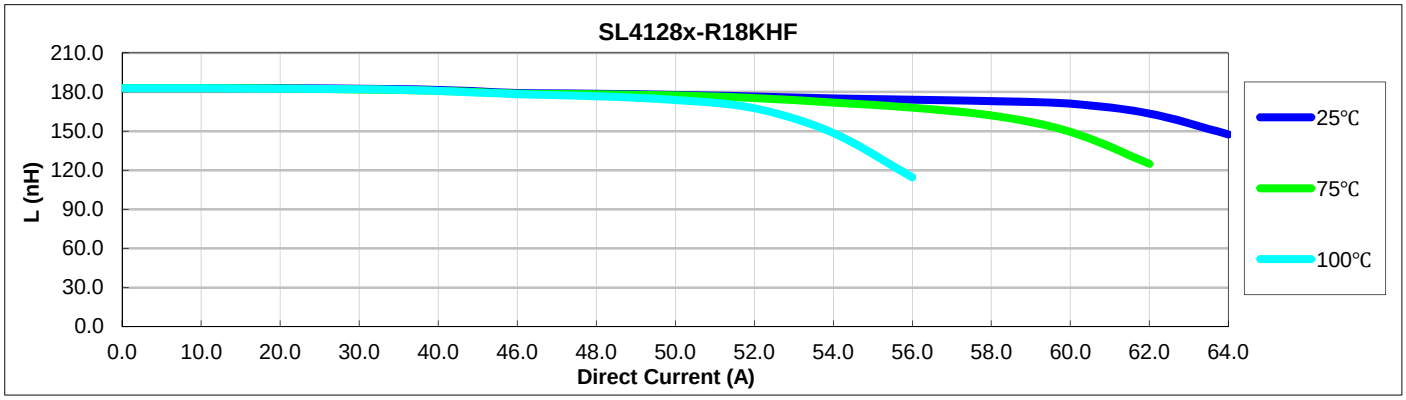
5>. Irms: DC current for an approximate temperature rise of 40℃ without core loss,.Derating is necessary for AC currents. PCB pad layout,trace thickness and width,air-flow and proximity of other heat generating components will affect the temperature rise. It is recommended the part temperature not exceed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

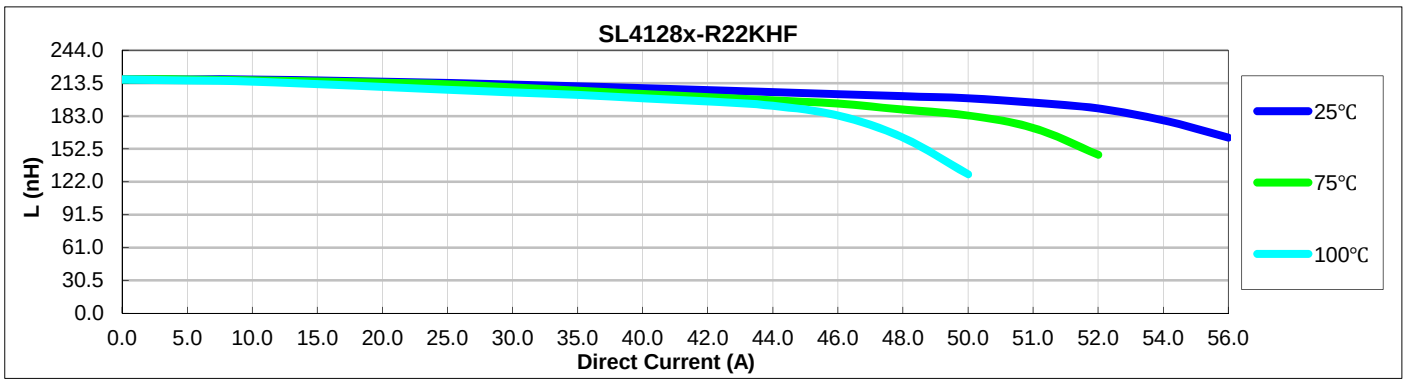
4. Inductance Characteristics (Inductance vs. Current):

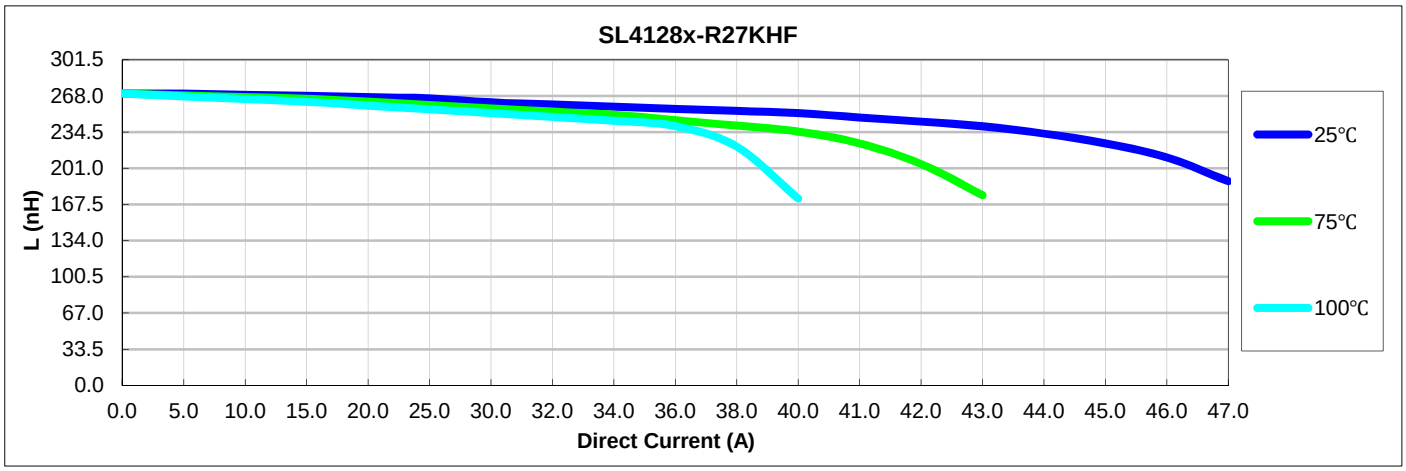
SL4128 Series

Inductance vs. Current









US 1 914 347 2474 ●Taiwan 886 972 022 388 ●Shenzhen 86 755 8418 6263 ●Shanghai 86 21 5424 5141 ●HK 852 9688 9767
Sales@inter-technical.com www.inter-technical.com , Rev.B, May.12, 2014

SL4128 Series

Inductance vs. Current