

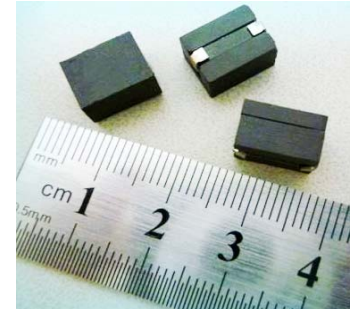


# SL4125 Series



## 1. Features:

- Ferrite based SMD Inductor with lower core loss.
- Inductance Range:140nH to 310nH. Custom values are welcomed.
- High current output chokes, upto 70 Amp with approx. 20% roll off.
- Low Profile 6.5mm Max. height .
- Foot Print 10.41 x 8.0 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: 800 pcs , 13" Reel ;



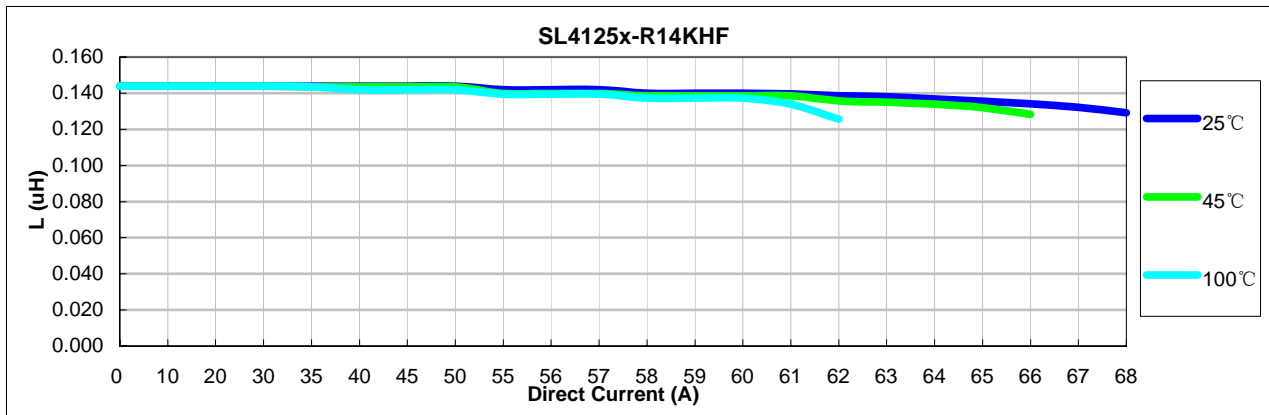
## 2. Electrical Characteristic of SL4125 Series:

Part Number	Inductance (uH) 10% or 15%	DCR (mΩ) ±7%	Isat <sup>1</sup> (A) @25°C	Isat <sup>2</sup> (A) @45°C	Isat <sup>3</sup> (A) @100°C	Irms (A) @25°C
SL4125A-R14KHF	0.14 , 10%	0.48	70.0	67.0	59.0	40.0
SL4125A-R18KHF	0.18 , 10%	0.48	58.0	55.0	47.0	40.0
SL4125A-R21KHF	0.215 , 10%	0.48	47.0	46.0	39.0	40.0
SL4125A-R30LHF	0.30 , 15%	0.48	33.0	31.0	27.0	40.0
SL4125A-R31LHF	0.31 , 15%	0.48	31.0	30.0	26.0	40.0

### Note:

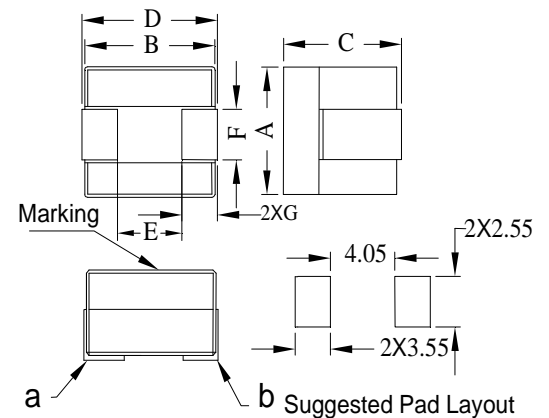
- 1>.Open Circuit Inductance (OCL) test condition:100KHz,0.1Vrms,0Adc ,at 25°C .
- 2>.Full Load Inductance (FLL) Test condition:100KHz,0.1Vrms ,Isat;(Ta=25°C).
- 3>.Isat<sup>1</sup>,Isat<sup>2</sup> & Isat<sup>3</sup>: DC current that will cause inductance to drop approximately by 20% ;(Ta=25°C).
- 4>. 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):



## 3. Mechanical Dimension(Unit:mm):

A	B	C	D	E	F	G
Max.	Max.	Max.	Max.	Nom.	Nom.	Nom.
8.00	10.25	6.50	10.41	5.10	2.05	2.50





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## Inductance vs. Current

