

1. Features of SL4125 Series :

- Ferrite based SMD inductor with lower core loss.
- Inductance Range: 100.0nH to 310.0nH, Custom values are welcomed.
- High current output chokes, up to 95.0 Amp with approx. 20% roll off.
- Low Profile 6.60mm/6.50mm Max. height .
- Foot Print 10.41 x 8.00 mm .
- Ideal for Buck Converter, VRM & High Density Board Design.
- Operating frequency up to 5.0 MHz application.
- Operating Temperature Range -55° C to +130° C , RoHs & HF compliance .
- T & R Qty: 800 pcs , 13" Reel ;

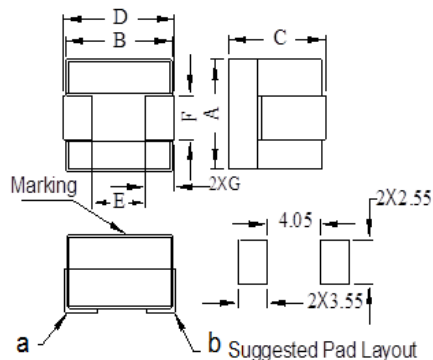


2. Electrical Characteristic of SL4125 Series:

Part Number	Inductance (uH) 10% or 15%	DCR (mΩ) ±7%	Isat ¹ (A) @25°C	Isat ² (A) @45°C	Isat ³ (A) @100°C	Irms (A) @25°C	Dim C (mm) Max.
SL4125A-R10KHF	0.10 , 10%	0.48	95.00	85.00	80.00	40.00	6.60
SL4125A-R14KHF	0.14 , 10%	0.48	70.00	67.00	59.00	40.00	6.50
SL4125A-R15KHF	0.15 , 10%	0.48	60.00	56.00	50.00	40.00	6.50
SL4125A-R18KHF	0.18 , 10%	0.48	58.00	55.00	47.00	40.00	6.50
SL4125A-R21KHF	0.215 , 10%	0.48	47.00	46.00	39.00	40.00	6.50
SL4125A-R30LHF	0.30 , 15%	0.48	33.00	31.00	27.00	40.00	6.50
SL4125A-R31LHF	0.31 , 15%	0.48	31.00	30.00	26.00	40.00	6.50

3. Mechanical Dimension(Unit : mm):

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



Notes:

1. Open Circuit Inductance (OCL) test condition:100KHz,0.1Vrms,0Adc , at 25 °C.
2. L @ Isat and L @ Irms Test condition:100KHz,0.1Vrms (Ta=25 °C).
3. The nominal DCR is measured from point "a" to point "b", as shown above on the mechanical drawing (Ta=25°C).
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°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.



4. Inductance Characteristics (Inductance vs. Current):

