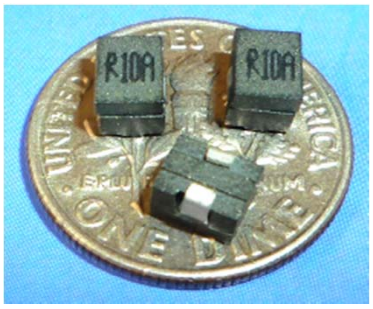
SL16165 Series

1. Features:



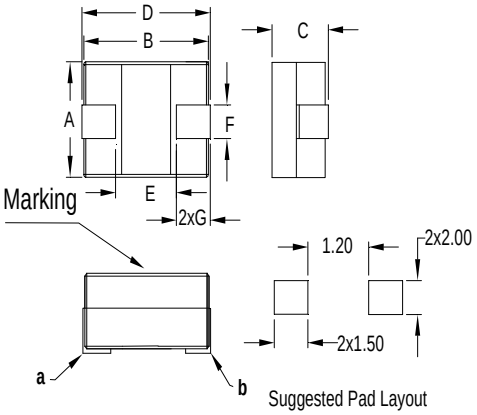
- Ferrite based SMD Inductor with lower core loss.
- Inductance Range:65.0nH to 100.0nH,Custom values are welcomed.
- High current output chokes, upto 30.0 Amp with approx. 20% roll off.
- Low Profile 4.00mm Max. height .
- Foot Print 4.00 x 5.00 mm Max.
- Ideal for Buck Converter, VRM & High Density Board Design.
- Operating frequency up to 1 MHz application.
- Operating Temperature Range -55°C to + 130°C , RoHs & HF compliance .
- T & R Qtys: 2000 pcs , 13" Reel ;

2. Electrical Characteristic of SL16165 Series:

Part Number	Inductance (nH) ±15% or 20%	DCR (mΩ) ± 10.0%	Inductance @Isat[3] (nH TYP)	Isat[1] (A) @25℃	Isat[2] (A) @75℃	Isat[3] (A) @100℃	Irms (A) @25℃
SL16165A-R06LHF	65.0 , 15%	0.330	60.00	30.00	27.00	25.00	30.00
SL16165A-R10MHF	100.0 , 20%	0.330	90.00	17.50	16.00	14.00	30.00

3. Mechanical Dimension(Unit:mm):

A Max.	B Max.	C Max.	D Max.	E Nom.	F Nom.	G Nom.
5.00	3.90	4.00	4.00	1.60	1.40	1.00



Note:

1>.Open Circuit Inductan

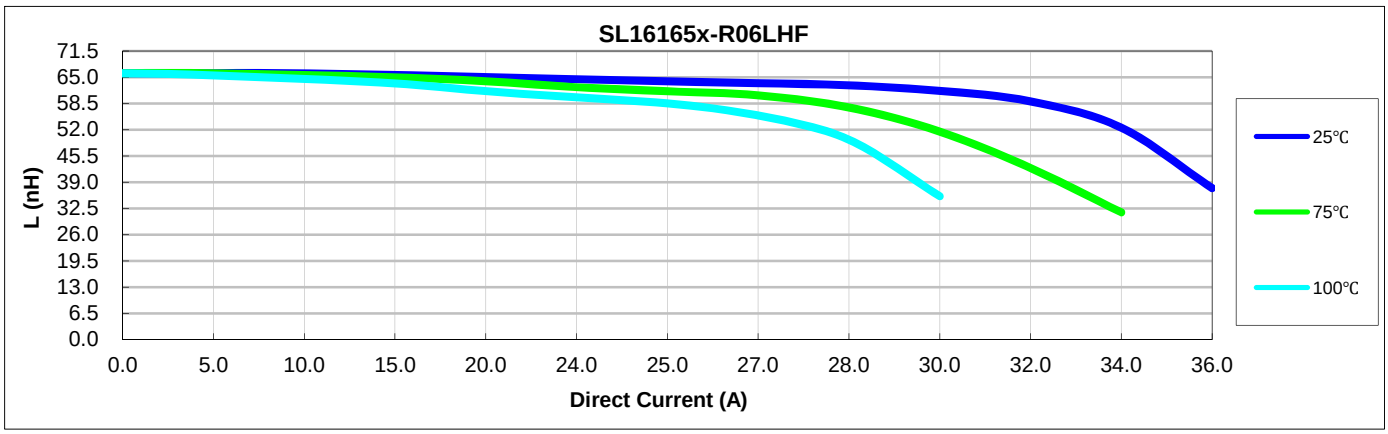
2>.Full Load Inductance (FLL) Test condition:100KHz,0.1Vrms ,Isat ;(Ta=25 ℃).

3>.Isat[1],Isat[2] & Isat[3] : DC current that will cause inductance to drops approximately by 20% ;

4>. 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.

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):



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Inductance vs. Current