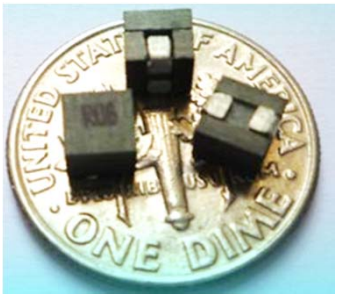
SL1616 Series

1. Features:

· Ferrite based SMD Inductor with lower core loss.
· Inductance Range:50nH to 100nH. Custom values are welcomed.
· High current output chokes, upto 29 Amp with approx. 20% roll off.
· Low Profile 4.00mm Max. height .
· Foot Print 4.00 x 4.00 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 ;

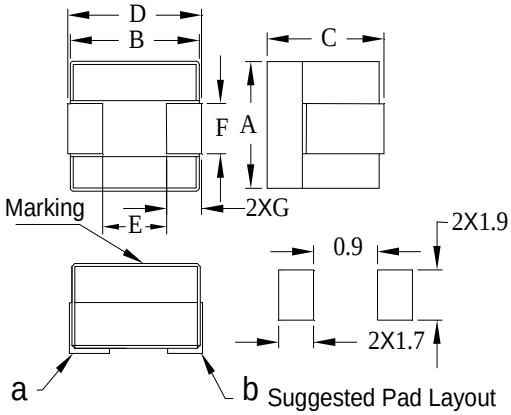


2. Electrical Characteristic of SL1616 Series:

Part Number	Inductance (nH) ±15% / 20%	DCR (mΩ) ±9.0%/16%	Isat[1] (A) @25℃	Isat[2] (A) @45℃	Isat[3] (A) @100℃	Irms (A) @25℃
SL1616A-R05LHF	50 , 15%	0.32,9.0%	29.00	28.00	26.00	19.00
SL1616B-R05LHF	50 , 15%	1.00,16%	29.00	28.00	26.00	11.00
SL1616A-R06LHF	65 , 15%	0.32,9.0%	26.00	25.00	22.00	19.00
SL1616B-R06LHF	65 , 15%	1.00,16%	26.00	25.00	22.00	11.00
SL1616A-R08MHF	80 , 20%	0.32,9.0%	22.00	21.00	17.00	19.00
SL1616B-R08MHF	80 , 20%	1.00,16%	22.00	21.00	17.00	11.00
SL1616A-R10MHF	100 , 20%	0.32,9.0%	17.00	15.00	13.00	19.00
SL1616B-R10MHF	100 , 20%	1.00,16%	17.00	15.00	13.00	11.00

3. Mechanical Dimension(Unit:mm):

A Max.	B Max.	C Max.	D Max.	E Nom.	F Nom.	G Nom.
4.00	3.90	4.00	4.00	1.30	1.40	1.30



Note:

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

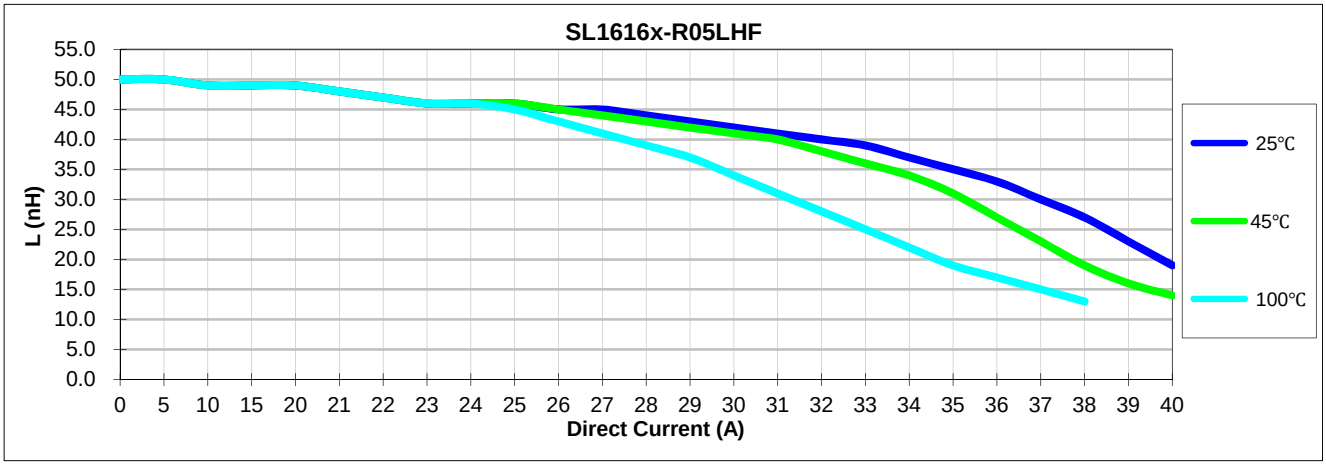
2>.Full Load Inductance (FLL) Test condition:100KHz,0.1Vrms ,Isat;(Ta=25 ℃).

3>.Isat[1],Isat[2] & Isat[3]: DC current that will cause inductance to drop approximately by 20% ;(Ta=25℃).

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