

SL1616 Series



Halogen Free

1. Features of SL1616 Series:

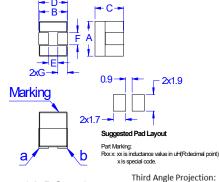
- · Ferrite based SMD inductor with lower core loss.
- Inductance range: 50.0nH to 100.0 nH, custom values are welcomed.
- High current output chokes , up to 29.0 Amp with approx. 20% roll off.
- Low profile 4.00 mm Max. height.
- 4.00 x 4.00 mm Foot Print.
- Ideal for Buck Converter, VRM & High Density Board Design.
- Operating frequency of up to 1.0MHz.
- Operating temperature range of -55° C to + 130° C.
- RoHS & HF compliant.
- T & R Qty's: 2000pcs, 13" Reel.

2. Electrical Characteristics of SL1616 Series:

	Inductance	DCR	lsat ¹	lsat ²	lsat ³	Irms
Part Number	(nH)	(mΩ)	(A)	(A)	(A)	(A)
	±15% / 20%	±9.0%/16%	@25℃	@45° C	@100℃	@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):

Α	В	С	D	Е	F	G
Max.	Max.	Max.	Max.	Nom.	Nom.	Nom.
4.00	3.90	4.00	4.00	1.30	1.40	1.30



Notes:

- 1. Open Circuit Inductance (OCL) test condition: 100KHz, 0.1Vrms, 0A DC at 25°C.
- 2. Full Load Inductance (FLL) Test condition:100KHz,0.1Vrms , Isat ;(Ta=25 °C).
- 3. Isat1,Isat2 & Isat3: 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. Verify and check PCB pad layout, trace thickness, width, air-flow and proximity of other heat generating components as it will have an effect on the temperature rise. It is recommended the part temperature not exceed 130° C under worst case operating conditions verified in the end application.
- 6. The nominal DCR is measured from point "a" to point "b", as shown above on the mechanical drawing. ● New York 1 914 347 2474 ● Taipei 886 2 2698 8669 ● Kaohsiung 886 7 350 2275
- Tokyo 81 568 85 2830 Shenzhen 86 755 8418 6263 Shanghai 86 21 5424 5141 Hong Kong 852 9688 9767 ● sales@ITG-Electronics.com ● www.ITG-Electronics.com Revision D.1: February 21, 2019

*Due to continuous product improvement, all specifications are subject to change without prior notice. Kindly contact an ITG field application engineer or a sales representative prior to purchase.



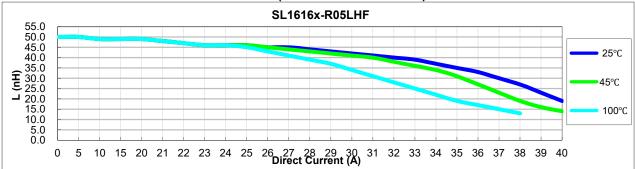


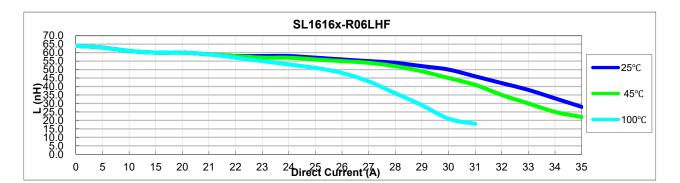
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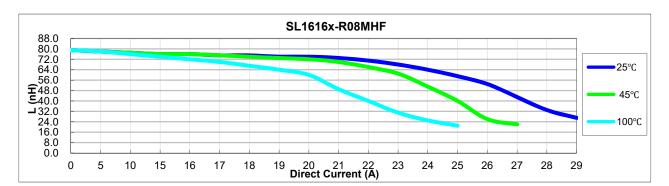


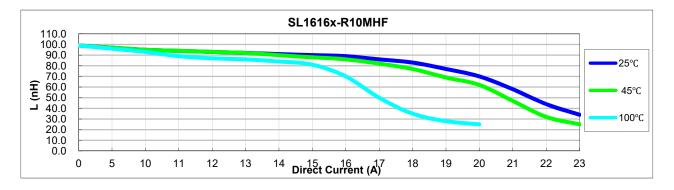
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4. Inductance Characteristics of SL1616 Series (Inductance vs Current):









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