

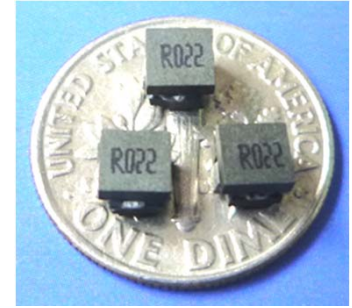


# SLC1615 Series



## 1. Features:

- Ferrite based SMD Inductor with lower core loss.
- Inductance Range:22.0nH to 10.0nH,Custom values are welcomed.
- High current output chokes, upto 60.0 Amp with approx. 20% roll off.
- Low Profile 3.9mm Max. height .
- Foot Print 4.0 x 4.0 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: 2000 pcs , 13" Reel ;

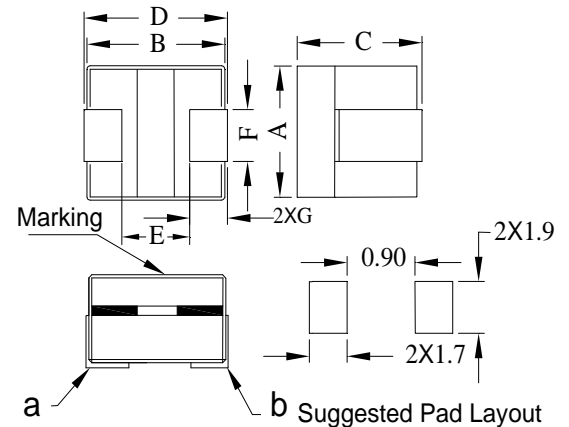


## 2. Electrical Characteristic of SLC1615 Series:

Part Number	Inductance (nH) +10%/-30%	DCR (mΩ) ± 9.0%	Isat <sup>1</sup> (A) @25°C	Isat <sup>2</sup> (A) @75°C	Isat <sup>3</sup> (A) @100°C	Irms (A) @25°C
SLC1615A-R022LHF	22.00	0.23	60.00	58.00	55.00	22.00
SLC1615B-R01MHF	10.00	0.22	80.00	74.00	70.00	25.00

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

A Max.	B Max.	C Max.	D Max.	E Nom.	F Nom.	G Nom.
4.00	3.95	3.90	4.00	1.40	1.40	1.35



### 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 drops approximately by 20% ;
- 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):



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## Inductance vs. Current

