

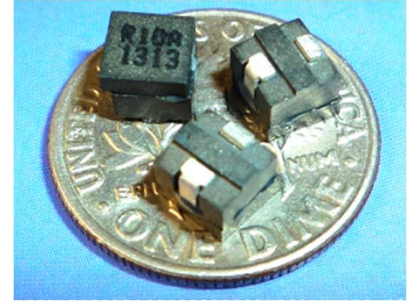


SL18185 Series



1. Features:

- Ferrite based SMD Inductor with lower core loss.
- Custom values are welcomed.
- High current output chokes, upto 22.0 Amp with approx. 20% roll off.
- Low Profile 4.50mm Max. height .
- Foot Print 4.50 x 4.50 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: 1700 pcs , 13" Reel ;

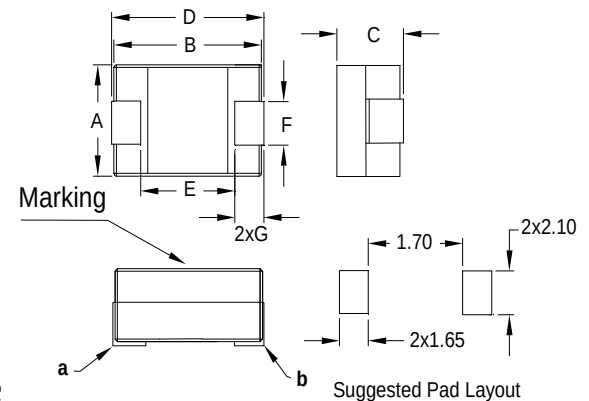


2. Electrical Characteristic of SL18185 Series:

Part Number	Inductance (nH) ±20%	DCR (mΩ) ± 9.0%	Isat ¹ (A) @25°C	L@Isat ¹ (A) Min.	Isat ² (A) @75°C	Isat ³ (A) @100°C	Isat ⁴ (A) @125°C	Irms (A) @25°C
SL18185A-R10MHF	100.00	0.30	22.00	72.00	21.00	19.00	18.00	40.00

3. Mechanical Dimension(Unit:mm):

A	B	C	D	E	F	G
Max.	Max.	Max.	Max.	Nom.	Nom.	Nom.
4.50	4.30	4.50	4.50	2.00	1.50	1.20



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>.Isat¹,Isat²,Isat³&Isat⁴: 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):

