

1. Features of SL16184 Series :

- Ferrite based SMD inductor with lower core loss.
- Inductance Range: 80nH to 100nH , custom values are welcomed.
- High current output chokes, up to 22.0 Amp with approx. 20% roll off.
- Low Profile 4.50 mm Max. height .
- Foot Print 4.00 x 4.00 mm .
- Ideal for Buck Converter, VRM & High Density Board Design.
- Operating frequency up to 5.0 MHz application.
- Operating Temperature Range -40° C to + 125° C , RoHs & HF compliance .
- T & R Qty: 1500 pcs , 13" Reel ;

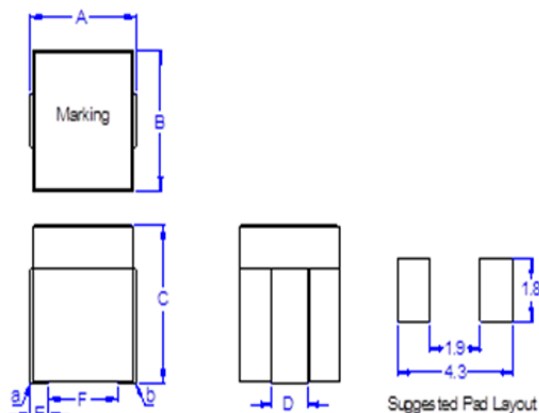


2. Electrical Characteristic of SL16184 Series:

ITG Part Number	OCL ¹ (nH) ± 15%	L @ Isat1 ² (nH) Min.	DCR ³ (mΩ) ± 10%	Isat1 ⁴ (A) @25°C	Isat2 ⁴ (A) @75°C	Isat3 ⁴ (A) @100°C	Irms ⁵ (A) @25°C
SL16184A-R08LHF	80.00	56.00	0.145	22.00	20.00	19.00	32.00
SL16184A-R10LHF	100.00	70.00	0.145	16.00	14.00	13.00	32.00

3. Mechanical Dimension(Unit : mm):

A (Max.)	B (Max.)	C (Max.)	D ± 0.20	E ± 0.20	F ± 0.30
4.00	4.00	4.50	1.30	0.70	2.40



Notes:

1. Open Circuit Inductance (OCL) test condition:100KHz,1.0Vrms,0Adc , at 25 °C.
2. L @ Isat and L @ Irms Test condition:100KHz,1.0Vrms (Ta=25 °C).
3. The nominal DCR is measured from point "a" to "b" as shown above on the mechanical drawing (Ta=25°C).
4. Isat1,Isat2 & Isat3 : DC current that will cause inductance to drop approximately by 20%.
5. 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.

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