



SLA3247 Series



1. Features of SLA3247 Series :

- Ferrite based SMD inductor with lower core loss.
- Inductance Range: 120.0 nH to 150.0 nH , custom values are welcomed.
- High current output chokes, up to 98.0 Amp with approx. 20% roll off.
- Low Profile 12.00 mm Max. height.
- 8.00 x 6.40 mm Foot Print.
- Ideal for Buck Converter, VRM & High Density Board Design.
- Operating frequency up to 1.0 MHz.
- Operating Temperature Range -55°C to + 130°C. RoHs & HF compliant.
- T & R Qtys: 400 pcs , 13" Reel.

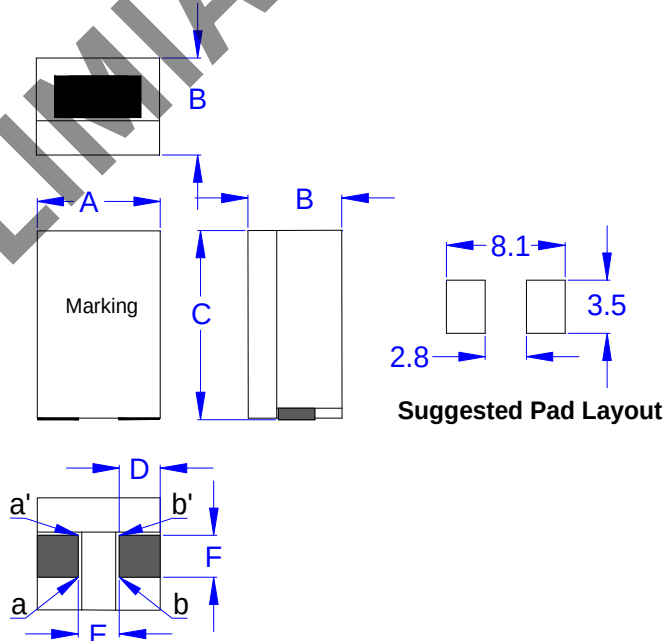


2. Electrical Characteristic of SLA3247 Series:

ITG Part Number	OCL ¹ (nH) ± 10%	L @ Isat1 ² (nH) Min.	DCR ³ (mΩ) ± 10%	Isat1 ⁴ (A) @25°C	Isat2 ⁴ (A) @100°C	Isat3 ⁴ (A) @125°C	Irms ⁵ (A) @25°C
SLA3247A-120K	120.00	86.40	0.18	98.00	78.00	75.00	61.00
SLA3247A-150K	150.00	108.00	0.18	80.00	64.00	61.00	61.00

3. Mechanical Dimension(Unit:mm):

A (Max.)	B (Max.)	C (Max.)	D ± 0.20	E (Nom.)	F ± 0.20
8.00	6.40	12.00	2.15	3.30	3.00



Notes:

- 1> Open Circuit Inductance (OCL) test condition: 100KHz, 0.25Vrms, 0Adc at 25°C.
- 2> L @ Isat and L @ Irms Test condition: 100KHz, 0.25Vrm (Ta=25°C).
- 3> The nominal DCR is measured from point "a" and "a'" to point "b" and "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 as verified in the end application.