

SL37408 Series



1. Features:

- Ferrite based SMD inductor with lower core loss.
- Inductance Range: 120.0 nH to 180.0 nH , custom values are welcomed.
- High current output chokes, up to 98.0 Amp with approx. 20% roll off.
- Low profile 10.00 mm Max. height.
- 9.41 x 8.00 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 Qty's: 400 pcs , 13" Reel.

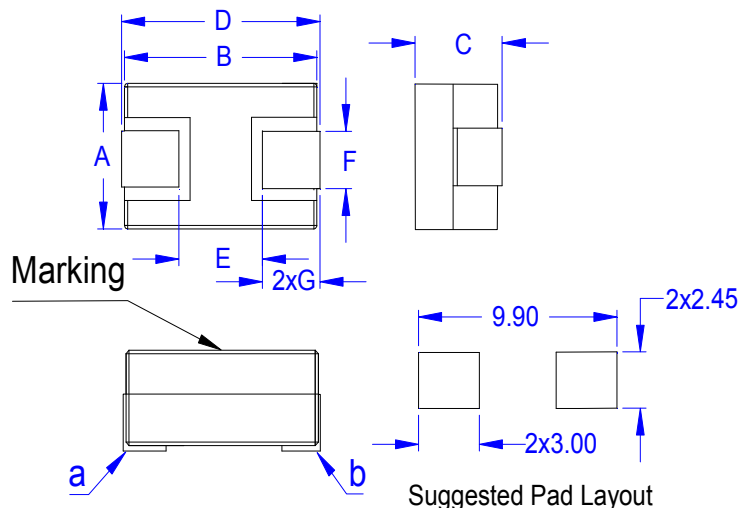


2. Electrical Characteristic of SL37408 Series:

ITG Part Number	OCL ¹ (nH) ± 10%	L @ Isat1 ² (nH) Min.	DCR ³ (mΩ) ± 5.0%	Isat1 ⁴ (A) @25°C	Isat2 ⁴ (A) @45°C	Isat3 ⁴ (A) @100°C	Irms ⁵ (A) @25°C
SL37408A-R12KHF	120.00	86.40	0.23	98.00	94.00	87.00	60.00
SL37408A-R15KHF	150.00	108.00	0.23	78.00	75.00	69.00	60.00
SL37408A-R18KHF	180.00	129.60	0.23	64.00	61.00	58.00	60.00

3. Mechanical Dimension(Unit:mm):

A (Max.)	B (Max.)	C (Max.)	D (Max.)	E (Ref.)	F ± 0.20	G ± 0.30
8.00	9.25	10.00	9.41	4.25	2.00	2.50



Notes:

- 1> Open Circuit Inductance (OCL) test condition: 100KHz, 0.10Vrms, 0Adc at 25°C.
- 2> L @ Isat and L @ Irms Test condition: 100KHz, 0.10Vrm (Ta=25°C).
- 3> The nominal DCR is measured from point "a" to point "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.

4. Inductance Characteristics (Inductance vs. Current):

