

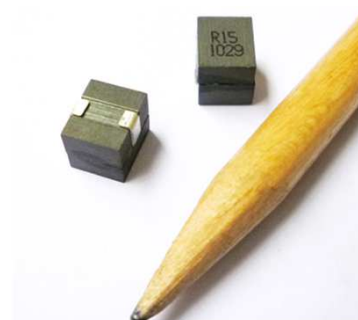


SL28409 Series



1. Features:

- Ferrite based SMD inductor with lower core loss.
- Inductance Range:120nH to 180nH. Custom values are welcomed.
- High current output chokes, up to 75 Amp with approx. 20% roll off.
- Low Profile 10.0mm Max. height.
- Foot Print 7.2 x 9.0 mm Max.
- 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: TBD pcs , 13" Reel ;

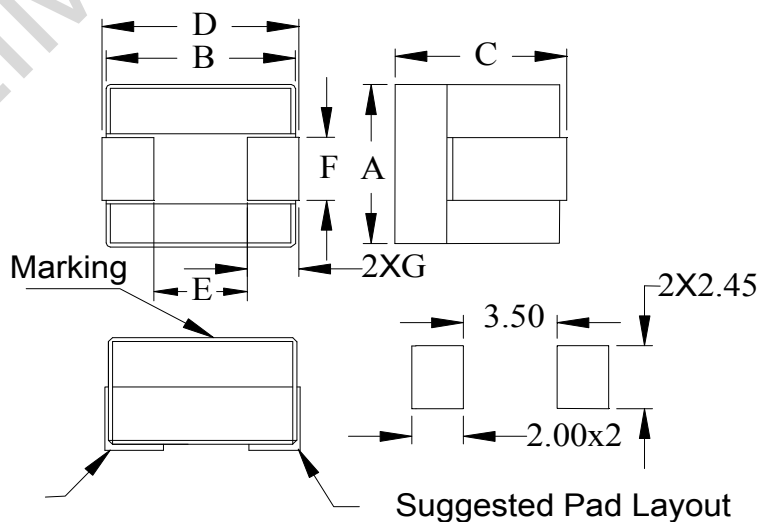


2. Electrical Characteristic of SL28409 Series:

Part Number	Inductance (nH) ± 10%	DCR (mΩ) ± 5.0%	Isat ¹ (A) @25°C	Isat ² (A) @45°C	Isat ³ (A) @100°C	Irms (A) @25°C
SL28409A-R12KHF	120.000	0.180	75.00	68.00	63.00	65.00
SL28409A-R15KHF	150.000	0.180	58.00	53.00	49.00	65.00
SL28409A-R18KHF	180.000	0.180	48.00	44.00	40.00	65.00

3. Mechanical Dimension(Unit:mm):

A	B	C	D	E	F	G
Max.	Max.	Max.	Max.	Nom.	Nom.	Nom.
9.00	7.00	10.00	7.20	3.95	2.00	1.52



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 : DC current that will cause inductance to drop 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 as verified in the end application.
- 5>.The nominal DCR is measured from point "a" to point"b",as shown above on the mechanical drawing(Ta=25 °C).

4. Inductance Characteristics (Inductance vs. Current): Pending