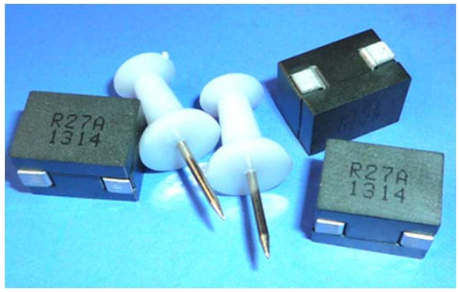
SLA5038 Series

1. Features:

- Ferrite based SMD Inductor with lower core loss.
- Custom values are welcomed.
- High current output chokes, upto 72.0 Amp with approx. 20% roll off.
- Low Profile 9.50mm Max. height .
- Foot Print 12.50 x 8.70 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: 400 pcs , 13" Reel ;

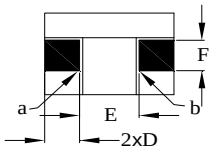


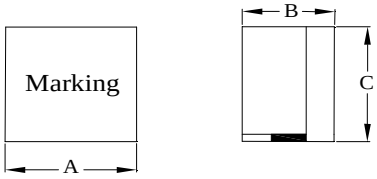
2. Electrical Characteristic of SLA5038 Series:

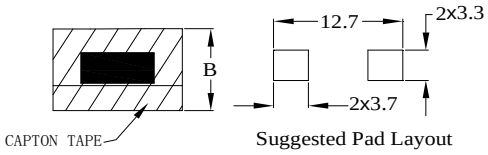
Part Number	Inductance (uH) ±10%	DCR (mΩ) ± 5.0%	Isat[1] (A) @25℃	L@Isat[1] (uH) Typ.	Isat[2] (A) @75℃	Isat[3] (A) @100℃	Irms (A) @25℃
SLA5038A-R27KHF	0.270	0.370	72.00	0.216	62.00	58.00	41.00

3. Mechanical Dimension(Unit:mm):

A Max.	B Max.	C Max.	D Nom.	E Nom.	F Nom.
12.50	8.70	9.50	3.00	5.80	2.80





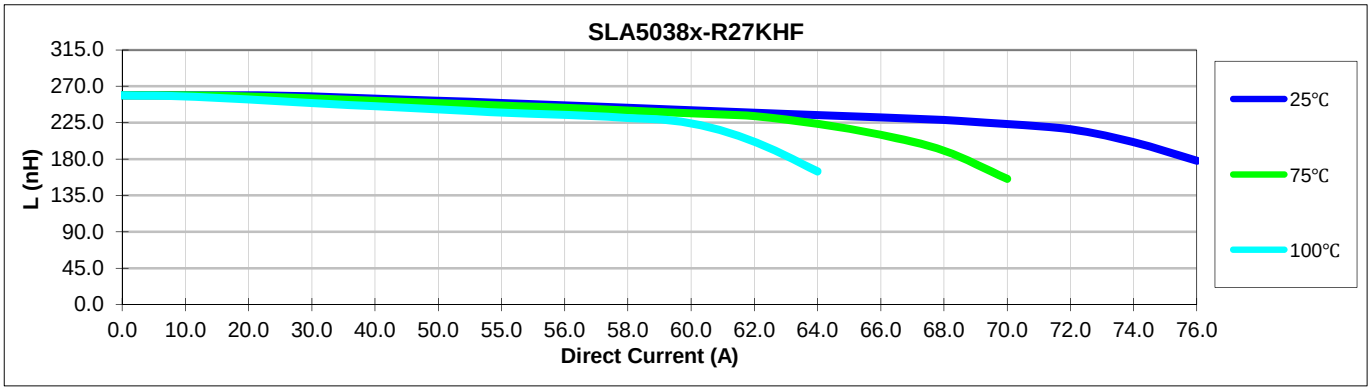


Suggested Pad Layout

Note:

1>.Open Circuit Inductance (OCL) test condition:100KHz,1.0Vrms,0Adc ,at 25 ℃.
2>.Full Load Inductance (FLL) Test condition:100KHz,1.0Vrms ,Isat ;(Ta=25 ℃).
3>.Isat[1],Isat[2]&Isat[3]: DC current that will cause inductance to drops approximately by 20% ,
4>. Irms: DC current for an approximate temperature rise of 40℃ 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):



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