



SLA5038B Series



1. Features of SLA5038B Series :

- Ferrite based SMD inductor with lower core loss.
- Inductance Range: 0.36uH to 0.47uH, Custom values are welcomed.
- High current output chokes, up to 53.0 Amp with approx. 20% roll off.
- Low Profile 9.50 mm Max. height .
- Foot Print 12.70 x 8.70 mm .
- Perfect for high density designs with limited board space.
- Operating frequency up to 5.0 MHz application.
- Operating Temperature Range -55° C to + 130° C , RoHs & HF compliance .
- T & R Qtys: 400 pcs , 13" Reel ;

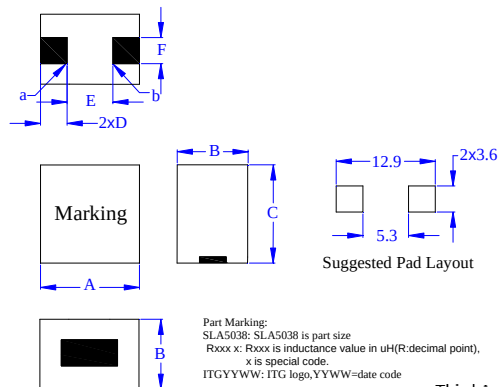


2. Electrical Characteristic of SLA5038B Series:

Part Number	Inductance (uH) ±10%	DCR (mΩ) ± 5.0%	L@Isat ¹ (uH) Typ.	Isat ¹ (A) @25°C	Isat ² (A) @75°C	Isat ³ (A) @100°C	Irms (A) @25°C
SLA5038B-R36KHF	0.360	0.270	0.288	53.00	44.00	42.50	47.00
SLA5038B-R47KHF	0.470	0.270	0.376	40.00	34.00	32.00	47.00

3. Mechanical Dimension(Unit : mm):

A	B	C	D	E	F
Max.	Max.	Max.	± 0.20	± 0.20	± 0.20
12.70	8.70	9.50	3.10	5.80	3.10



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 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 verified in the end application.

● New York 1 914 347 2474 ● Taipei 886 2 2698 8669 ● Kaohsiung 886 7 350 2275
 ● Japan 81 568 85 2830 ● Shenzhen 86 755 8418 6263 ● Shanghai 86 21 5424 5141 ● Hong Kong 852 9688 9767
 ● sales@ITG-Electronics.com ● www.ITG-Electronics.com Revision A.1: November 16, 2020

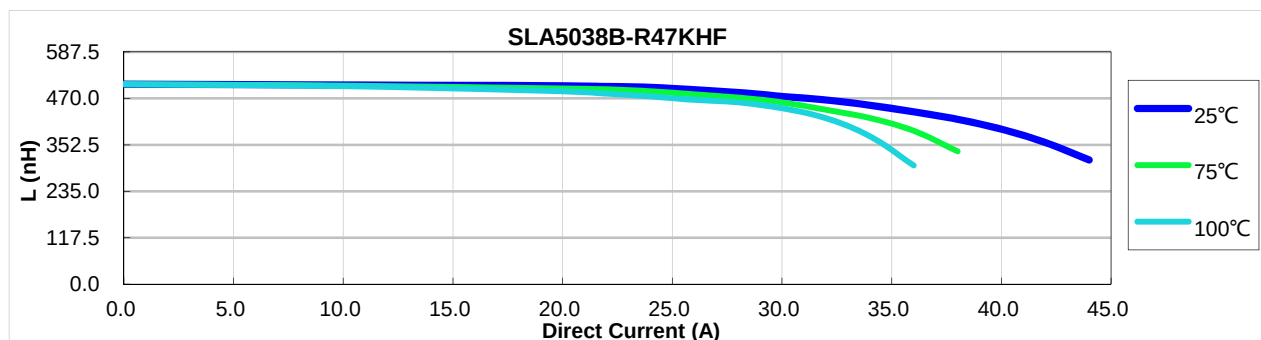
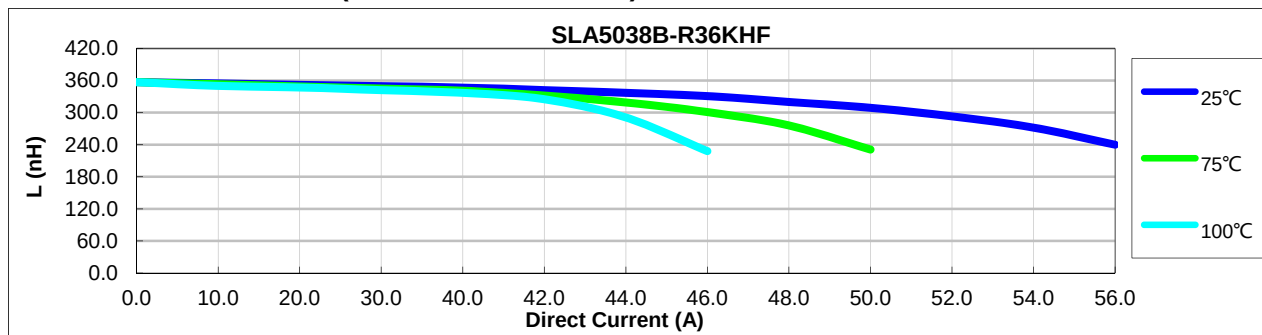
*Due to continuous product improvement, all specifications are subject to change without prior notice. Kindly contact an ITG field application engineer or a sales representative prior to purchase.



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4. Inductance Characteristics (Inductance vs Current):



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