



SL4035 Series



1. Features of SL4035 Series:

- Ferrite based SMD inductor with lower core loss.
- Inductance range: 0.22uH to 0.47uH , custom values are welcomed.
- High current output chokes , up to 68.0 Amp with approx. 20% roll off.
- Low profile 9.00 mm Max. height.
- 11.20 x 11.00 mm Foot Print.
- Ideal for Buck Converter, VRM & High Density Board Design.
- Operating frequency of up to 5.0MHz.
- Operating temperature range of -55° C to + 130° C . RoHS & HF compliant.
- T & R Qty's : 300pcs, 13" Reel.

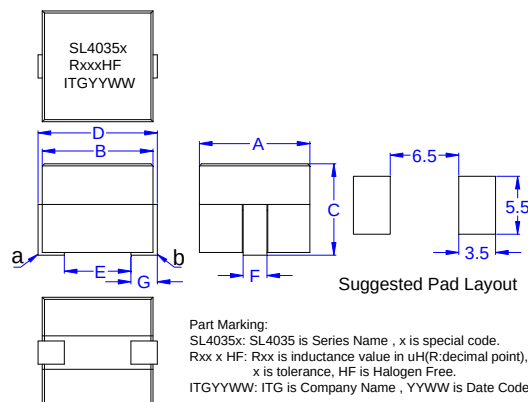


2. Electrical Characteristics of SL4035 Series:

ITG Part Number	OCL ¹ (uH) 10% or 15%	DCR ³ (mΩ) ±7%	Isat1 ⁴ (A) @25°C	Isat2 ⁴ (A) @45°C	Isat3 ⁴ (A) @100°C	Irms ⁵ (A) @25°C
SL4035A-R22KHF	0.22 ,10%	0.48	68.00	63.00	59.00	40.00
SL4035B-R22KHF	0.22 ,10%	0.63	68.00	63.00	59.00	35.00
SL4035C-R22KHF	0.22 ,10%	0.32	68.00	63.00	59.00	49.00
SL4035D-R22KHF	0.22 ,10%	0.42	68.00	63.00	59.00	43.00
SL4035A-R25KHF	0.25 ,10%	0.48	63.00	60.00	56.00	40.00
SL4035B-R25KHF	0.25 ,10%	0.63	63.00	60.00	56.00	35.00
SL4035C-R25KHF	0.25 ,10%	0.32	63.00	60.00	56.00	49.00
SL4035D-R25KHF	0.25 ,10%	0.42	63.00	60.00	56.00	43.00
SL4035A-R27KHF	0.27 ,10%	0.48	52.00	50.00	47.00	40.00
SL4035B-R27KHF	0.27 ,10%	0.63	52.00	50.00	47.00	35.00
SL4035C-R27KHF	0.27 ,10%	0.32	52.00	50.00	47.00	49.00
SL4035D-R27KHF	0.27 ,10%	0.42	52.00	50.00	47.00	43.00
SL4035A-R32KHF	0.32 ,10%	0.48	46.00	45.00	40.00	40.00
SL4035B-R32KHF	0.32 ,10%	0.63	46.00	45.00	40.00	35.00
SL4035C-R32KHF	0.32 ,10%	0.32	46.00	45.00	40.00	49.00
SL4035D-R32KHF	0.32 ,10%	0.42	46.00	45.00	40.00	43.00
SL4035A-R47LHF	0.47 ,15%	0.48	30.00	28.00	25.00	40.00
SL4035B-R47LHF	0.47 ,15%	0.63	30.00	28.00	25.00	35.00
SL4035C-R47LHF	0.47 ,15%	0.32	30.00	28.00	25.00	49.00
SL4035D-R47LHF	0.47 ,15%	0.42	30.00	28.00	25.00	43.00

3. Mechanical Dimensions (unit: mm):

A	B	C	D	E	F	G
Max.	Max.	Max.	Max.	Nom.	Nom.	Nom.
11.00	11.00	9.00	11.20	6.10	2.80	2.50



Notes:

- Open Circuit Inductance (OCL) test condition: 100KHz,0.1Vrms,0Aadc at 25°C.
- L @ Isat and L @ Irms Test condition: 100KHz,1.0Vrms (Ta=25°C).
- The nominal DCR is measured from point "a" to point "b" ,as shown above on the mechanical drawing (Ta=25°C).
- Isat1 , Isat2 & Isat3 : DC current that will cause inductance to drop approximately by 20%.
- 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.

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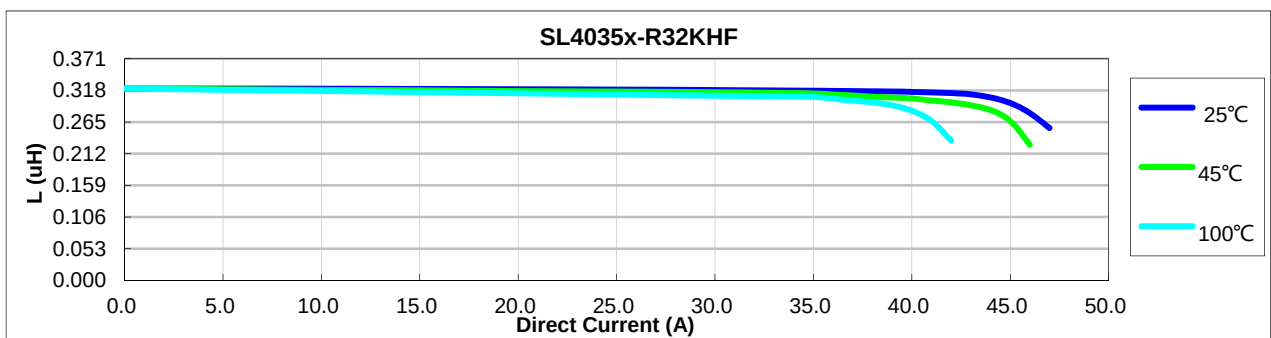
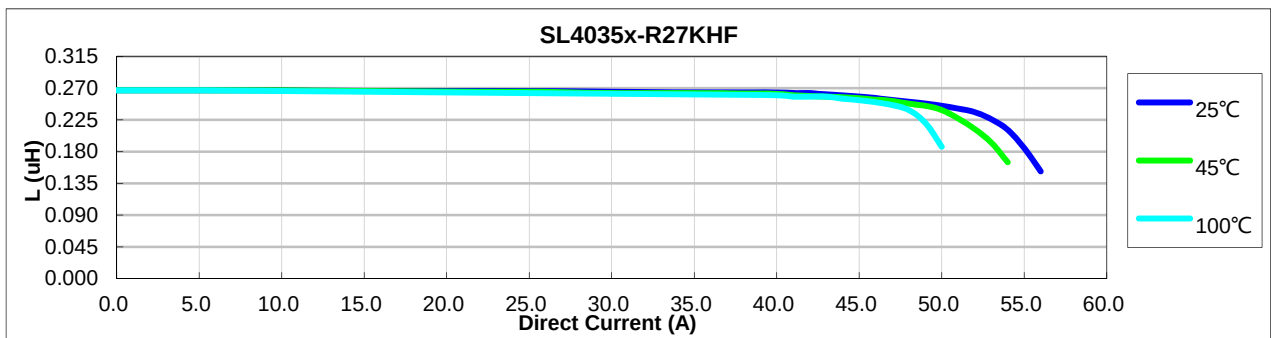
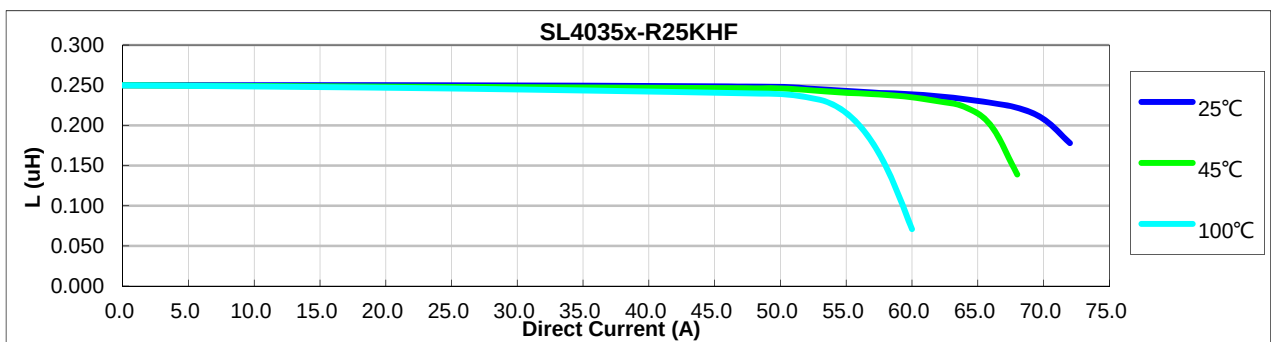
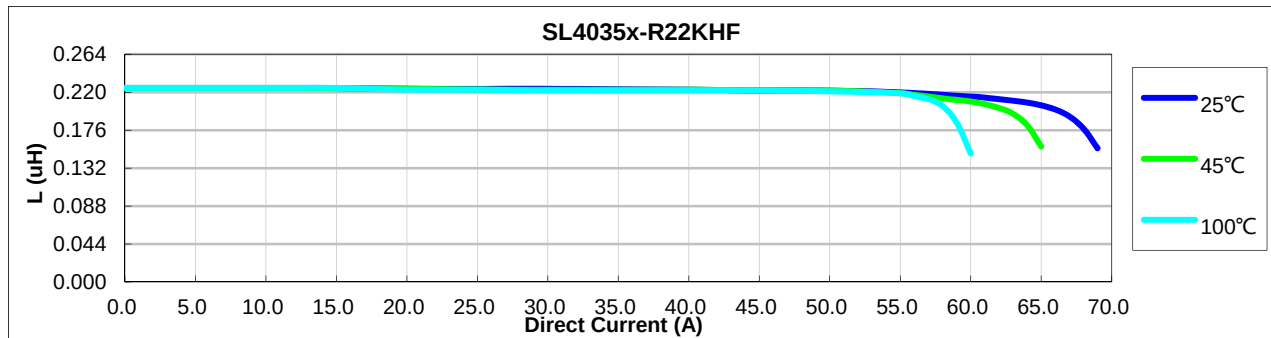
**Due to continuous product improvement, all specifications are subject to change without prior notice. Kindly contact an ITG field application engineer or a sales representative prior to purchase.*



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4. Inductance Characteristics of SL4035 Series (Inductance vs Current):



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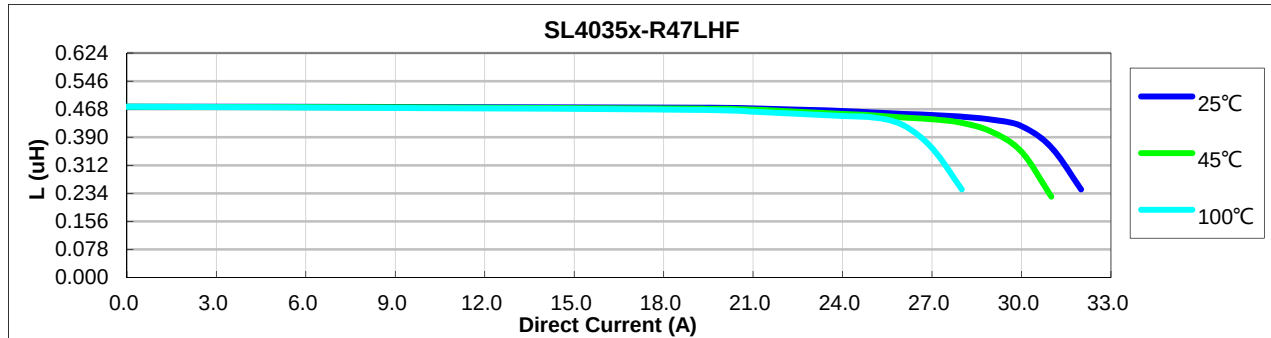
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