

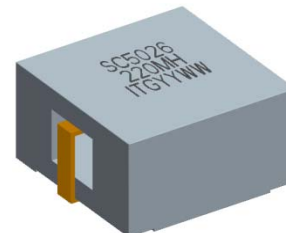


SC5026H Series



1. Features of SC5026H Series:

- Ferrite based SMD inductor with lower core loss.
- Inductance Range: 10.0uH to 22.0uH, Custom values are welcomed.
- High current output chokes, up to 13.0 Amp with approx. 20% roll off.
- Low Profile 7.00 mm Max. height .
- Foot Print 13.00 x 12.80 mm .
- 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: 500pcs, 13" Reel.

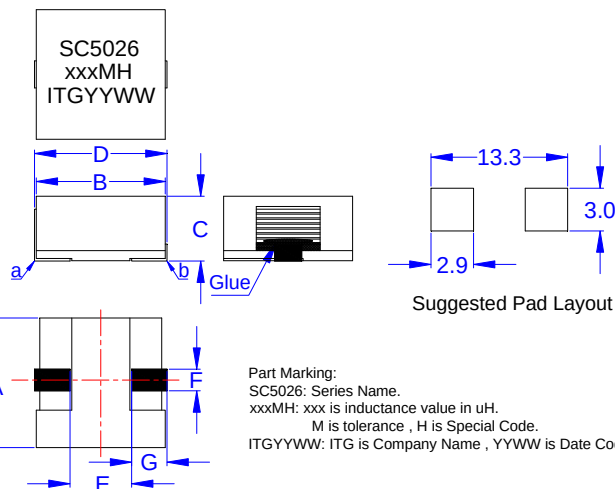


2. Electrical Characteristics of SC5026H Series:

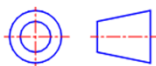
ITG Part Number	OCL ¹ (uH) ± 20%	L @ Isat1 ² (uH) Min.	DCR ³ (mΩ) Max.	Isat1 ⁴ (A) @25°C	Isat2 ⁴ (A) @75°C	Isat3 ⁴ (A) @100°C	Irms ⁵ (A) @25°C
SC5026H-100MHF	10.00	6.50	11.70	13.00	11.00	10.00	10.00
SC5026H-150MHF	15.00	9.75	11.70	9.00	8.00	7.00	10.00
SC5026H-220MHF	22.00	14.30	24.50	8.00	7.00	6.00	5.50

3. Mechanical Dimension of SC5026H Series:

A	B	C	D	E	F	G
± 0.30	± 0.30	Max.	Max.	Nom.	± 0.30	± 0.30
12.50	12.50	7.00	13.00	8.20	2.45	2.15



Third Angle Projection:



Notes:

1. Open Circuit Inductance (OCL) test condition: 100KHz, 1.0Vrms, 0A DC at 25°C.
2. L @ Isat and L @ Irms Test condition: 100KHz, 1.0Vrm (Ta=25°C).
3. The nominal DCR is measured from point "a" to point "b" as shown above in 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.
6. Derating is necessary for AC currents. Verify and check PCB pad layout, trace thickness, width, air-flow and proximity of other heat generating components as it will have an effect on the temperature rise.
7. It is recommended that the part temperature should not exceed 130° C under worst operating conditions.

● 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: November 23, 2016

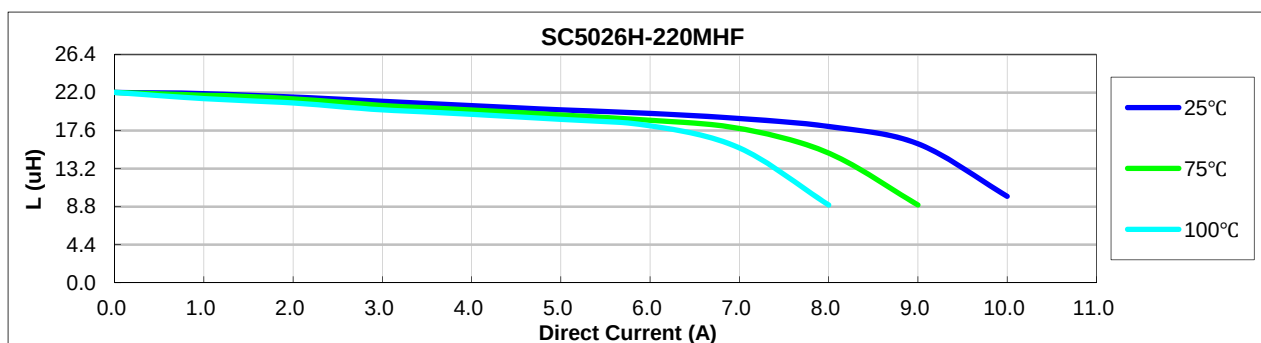
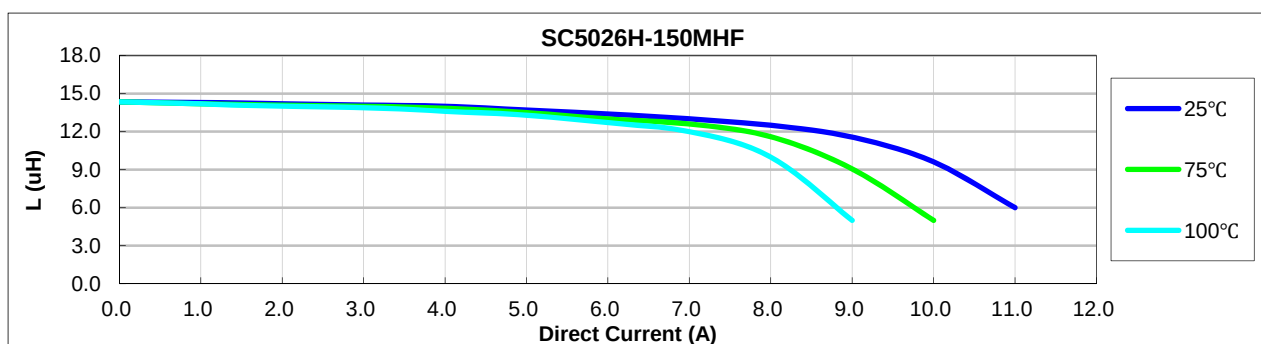
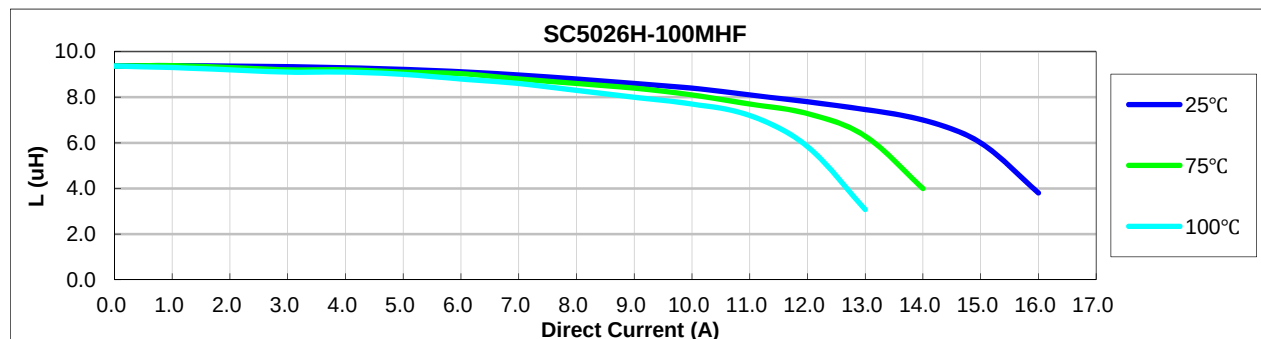
**Due to continuous product improvement, all specifications are subject to change without prior notice. Kindly contact an ITG field application engineer or a sales representative prior to purchase.*



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4. Inductance Characteristics of SC5026H Series (Inductance vs Current):



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