



AH2026 Series



1. Features of AH2026 Series:

- Ferrite based SMD inductor with lower core loss.
- Inductance range: 50.0nH to 80.0nH, custom values are welcomed.
- High current output chokes of up to 74.0 Amp with approx. 20% roll off.
- Low profile 6.0mm max. height.
- 5.20 x 5.00mm 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: 800pcs, 13" Reel.




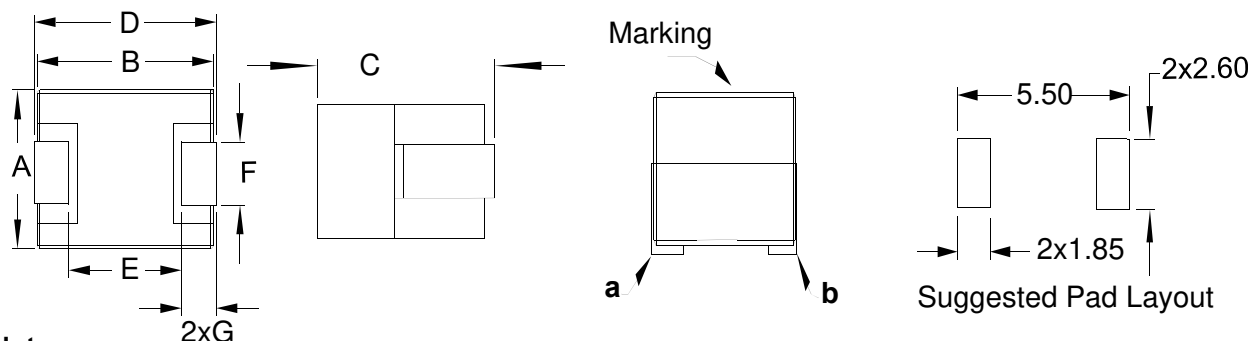
2. Electrical Characteristics of AH2026 Series:

Part Number	Inductance (nH) ±15%	DCR (mΩ)	Isat ¹ (A) @25°C	Isat ² (A) @45°C	Isat ³ (A) @75°C	Isat ⁴ (A) @100°C	Irms (A) @25°C
AH2026A-R05LHF	50.00	0.27 , ±7.0%	70.00	69.00	68.00	66.00	53.00
AH2026B-R05LHF	50.00	0.47 , ±9.0%	70.00	69.00	68.00	66.00	40.00
AH2026A-R08LHF	80.00	0.27 , ±7.0%	48.00	47.00	44.00	42.00	53.00
AH2026B-R08LHF	80.00	0.47 , ±9.0%	48.00	47.00	44.00	42.00	40.00

3. Mechanical Dimension of AH2026 Series:

A	B	C	D	E	F	G
Max.	Max.	Max.	Max.	Nom.	Nom.	Nom.
5.00	5.00	6.60	5.20	2.40	2.00	1.40

Third Angle Projection: 
 Part Marking: xxxX: xxxx is inductance value in uH (R:decimal point) X is part code
 yyyy: yyyy is date code.



Notes:

1. Open Circuit Inductance (OCL) test condition: 500KHz, 0.25Vrms, 0A DC at 25°C.
2. Full Load Inductance (FLL) Test condition: 500KHz, 0.25Vrms, Isat ; (Ta=25 °C).
3. Isat1, Isat2 & Isat3, Isat4: DC current that will cause inductance to drop approximately by 20% ;
4. I rms: DC current for an approximate temperature rise of 40°C without core loss.
5. The nominal DCR is measured from point "a" to point "b" as shown on the mechanical drawing above
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 B: May 5, 2016

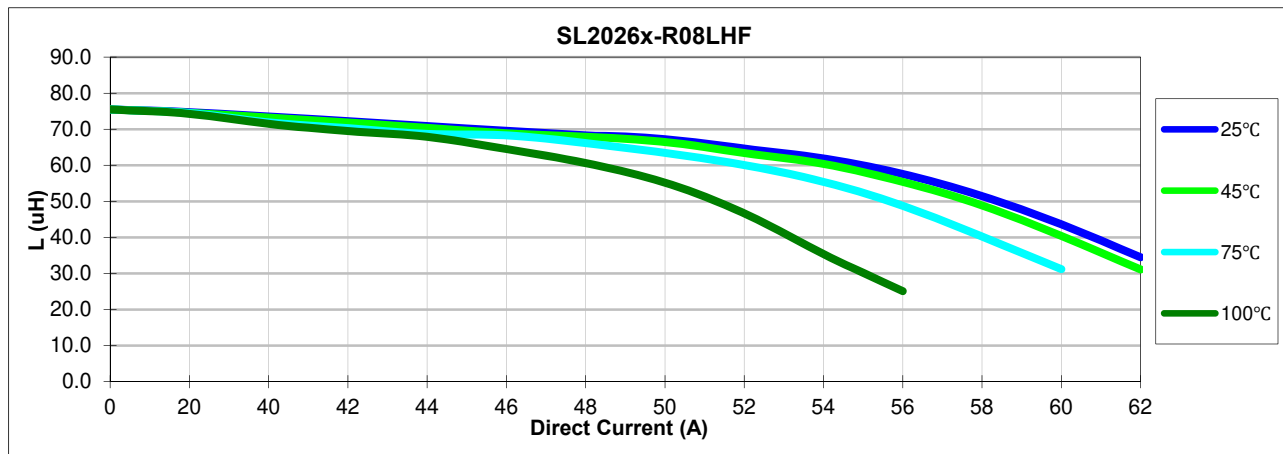
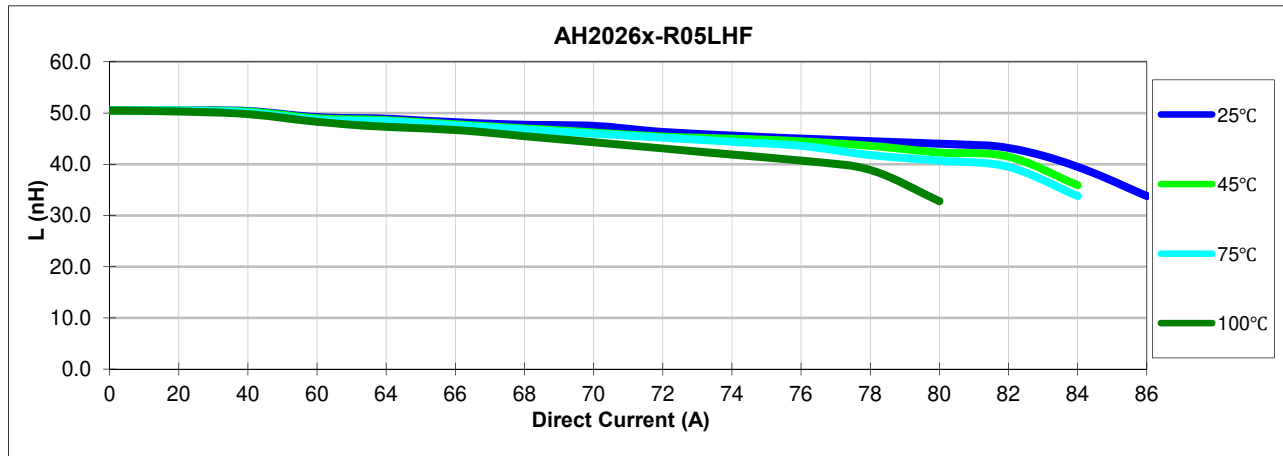
*Due to continuous product improvement, all specifications are subject to change without prior notice. Kindly contact an ITG field application engineer or a sales representative prior to purchase.



AH2026 Series



4. Inductance Characteristics of AH2026 Series (Inductance vs Current):



● 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 B: May 5, 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.*