

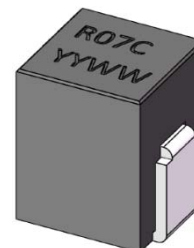


AH3032 Series



1. Features of AH3032 Series:

- Ferrite based SMD inductor with lower core loss.
- Inductance range: 30.0nH to 80.0 nH, custom values are welcomed.
- High current output chokes , up to 175.0 Amp with approx. 20% roll off.
- Low profile 8.0 mm Max. height.
- 7.20 x 6.20 mm Foot Print.
- Perfect for high density designs with limited board space.
- Operating frequency of up to 5.0MHz.
- Operating temperature range of -55° C to + 130° C.
- RoHS & HF compliant.
- T & R Qty's: 650pcs, 13" Reel.

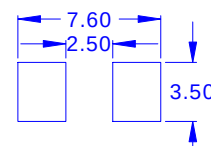
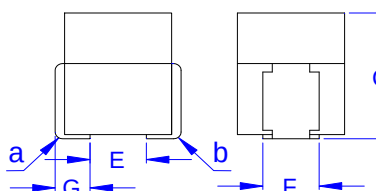
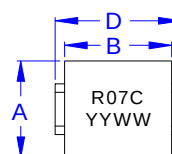


2. Electrical Characteristics of AH3032 Series:

ITG Part Number	OCL ¹ (nH) ± 15% or 20%	L @ Isat1 ² (nH) Min.	DCR ³ (mΩ) ± 7%	Isat1 ⁴ (A) @25°C	Isat2 ⁴ (A) @75°C	Isat3 ⁴ (A) @100°C	Irms ⁵ (A) @25°C
AH3032C-30LHF	30.0 ± 15%	21.60	0.18	175.00	170.00	165.00	39.00
AH3032C-42LHF	42.0 ± 15%	30.24	0.18	125.00	110.00	105.00	39.00
AH3032C-R07MHF	70.0 ± 20%	50.40	0.18	70.00	65.00	60.00	39.00
AH3032C-R08MHF	80.0 ± 20%	57.60	0.18	64.00	60.00	58.00	39.00

3. Mechanical Dimension of AH3032 Series:

A	B	C	D	E	F	G
Max.	Max.	Max.	Max.	(Ref.)	± 0.20	± 0.35
6.20	6.20	8.00	7.20	3.10	3.00	1.85



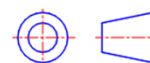
Suggested Pad Layout

Part Marking:
R07 x: R07 is inductance value in uH(R:decimal point),
C is special code.
YYWW: Date Code

Notes:

1. Open Circuit Inductance (OCL) test condition: 500KHz, 0.25Vrms, 0A DC at 25°C.
2. L @ Isat and L @ Irms Test condition: 500KHz, 0.25Vrm (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.

Third Angle Projection:



● New York 1 914 347 2474 ● Taipei 886 2 2698 8669 ● Kaohsiung 886 7 350 2275
 ● Tokyo 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 C.0: November 28, 2017

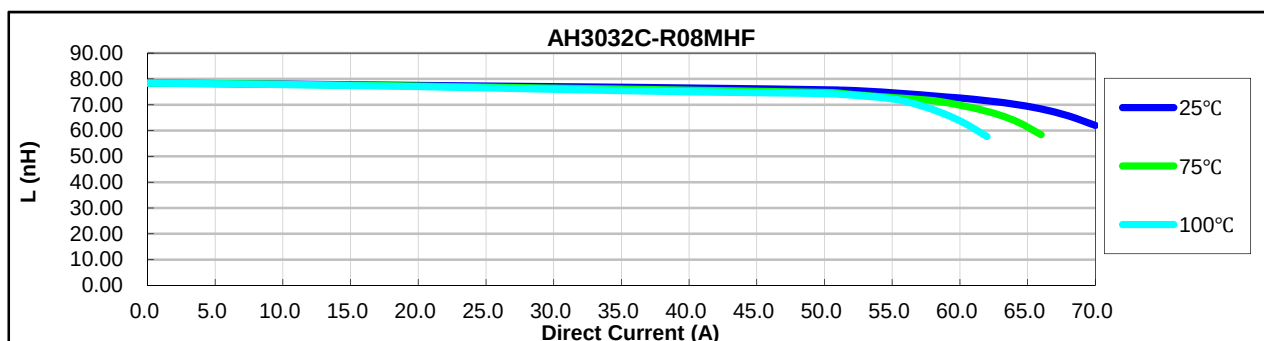
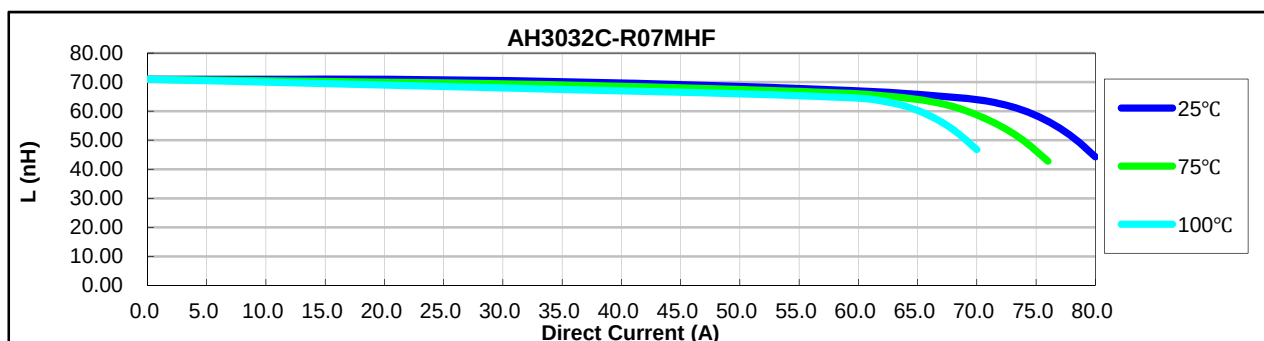
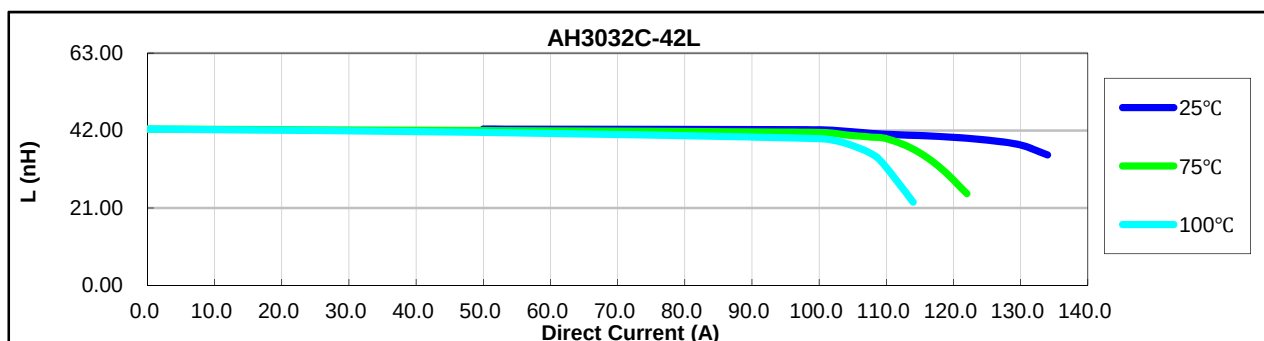
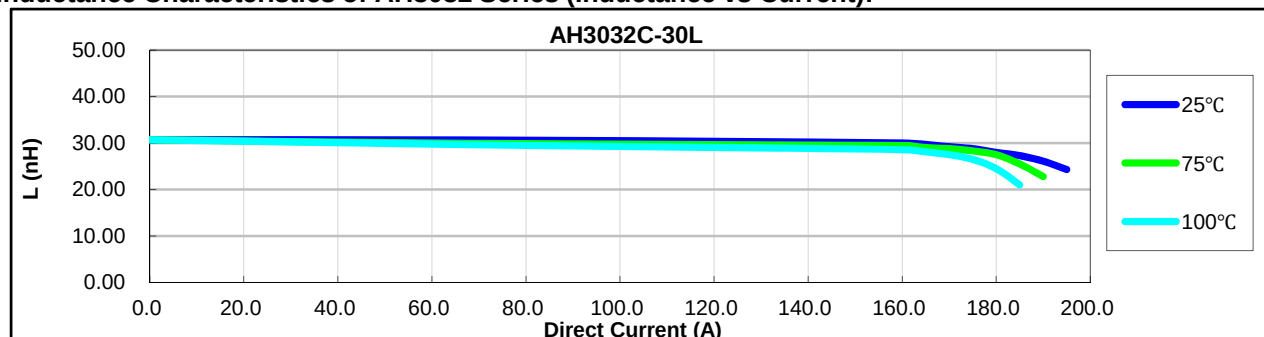
**Due to continuous product improvement, all specifications are subject to change without prior notice. Kindly contact an ITG field application engineer or a sales representative prior to purchase.*



AH3032 Series



4. Inductance Characteristics of AH3032 Series (Inductance vs Current):



● New York 1 914 347 2474 ● Taipei 886 2 2698 8669 ● Kaohsiung 886 7 350 2275
 ● Tokyo 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 C.0: November 28, 2017

**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.*