



AH47328A Series



1. Features of AH47328A Series:

- Ferrite based SMD inductor with lower core loss.
- Inductance range: 150nH to 260nH , custom values are welcomed.
- High current output chokes of up to 95.0 Amp with approx. 20% roll off.
- Low profile 8.0mm maximum height
- 12.10 x 8.00mm foot print.
- Ideal for Buck Converter, VRM & High Density Board Design.
- Operating frequency of up to 5.0 MHz
- Operating temperature range of -55° C to + 130° C.
- RoHS & HF compliant.
- T & R Quantity: 500pcs, 13"Reel



2. Electrical Characteristics of AH47328A Series:

Part Number	Inductance (uH) ± 10%	DCR (mΩ) ± 5.0%	Isat ¹ (A) @25°C	Isat ² (A) @45°C	Isat ³ (A) @85°C	Isat ⁴ (A) @105°C	Isat ⁵ (A) @125°C	Irms (A) @25°C	C (mm) Max.
AH47328A-R15KHF	0.150 , 10%	0.290	95.00	93.00	89.00	86.00	82.00	50.00	8.10
AH47328A-R18KHF	0.180 , 10%	0.290	80.00	78.00	72.00	68.00	64.00	50.00	8.00
AH47328A-R21KHF	0.210 , 10%	0.290	69.00	68.00	66.00	61.00	56.00	50.00	8.00
AH47328A-R23KHF	0.230 , 10%	0.290	64.00	63.00	58.00	53.00	51.00	50.00	8.00
AH47328A-R26KHF	0.260 , 10%	0.290	54.00	53.00	51.00	46.00	42.00	50.00	8.00

3. Mechanical Dimension of AH47328A Series:

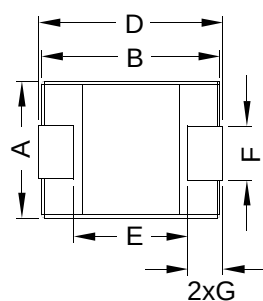
A Max.	B Max.	C See	D Max.	E Nom.	F Nom.	G Nom.
8.00	11.75	Table C	12.1	7.0	2.10	2.50

Third Angle Projection:



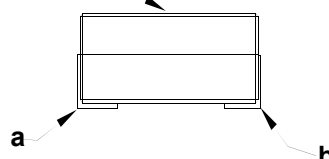
Part Marking:

xxxxX: xxxx is inductance value in uH (R:decimal point) X is part code
ITGYYWW: ITG: Company name, YYWW: Date code.

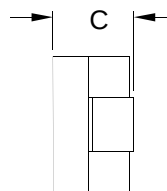


Bottom View

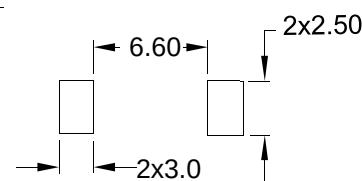
Marking



Front View



Side View



Suggested Pad Layout

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. The nominal DCR is measured from point "a" to point "b" as shown above in the mechanical drawing.
4. Isat1, Isat2, Isat3, Isat4 and Isat5: 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 B: June 28 , 2016

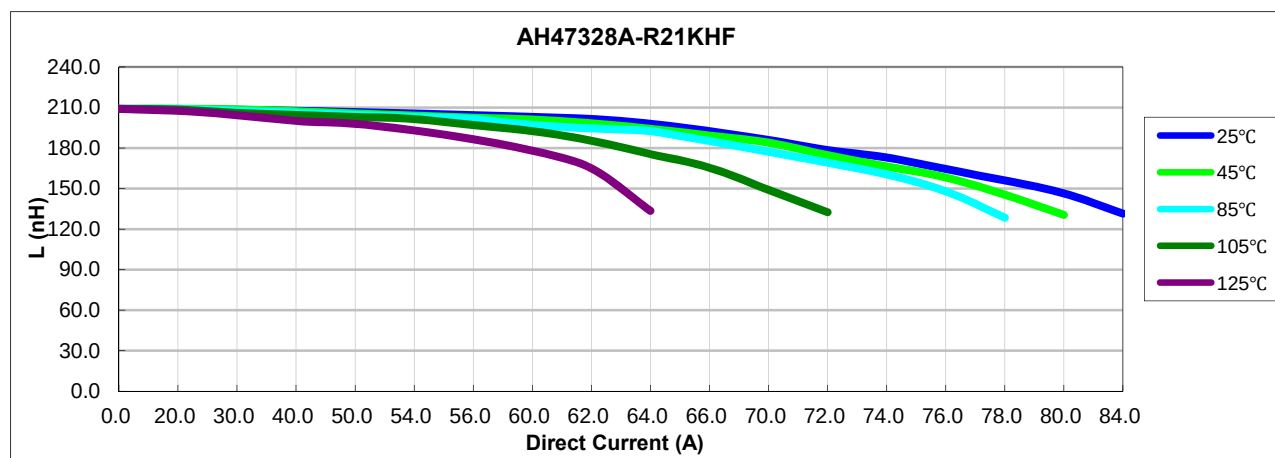
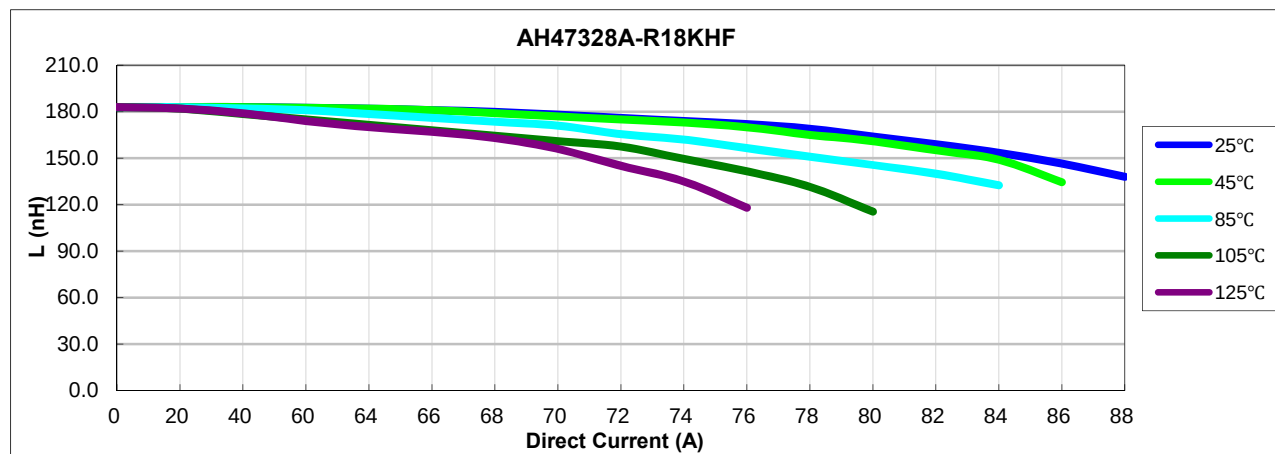
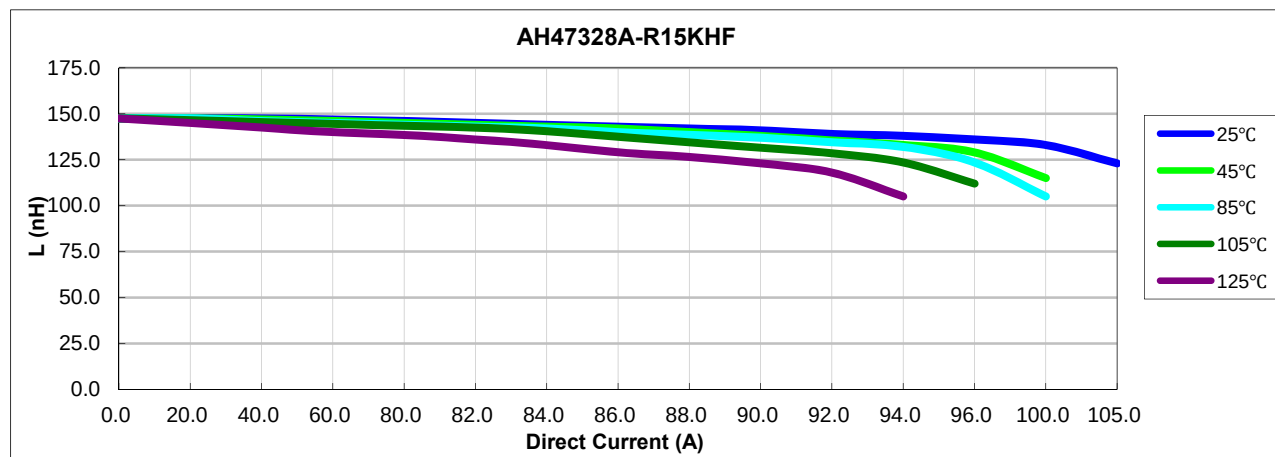
*Due to continuous product improvement, all specifications are subject to change without prior notice. Kindly contact an ITG field application engineer or a sales representative prior to purchase.



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4. Inductance Characteristics of AH47328A Series (Inductance vs Current):



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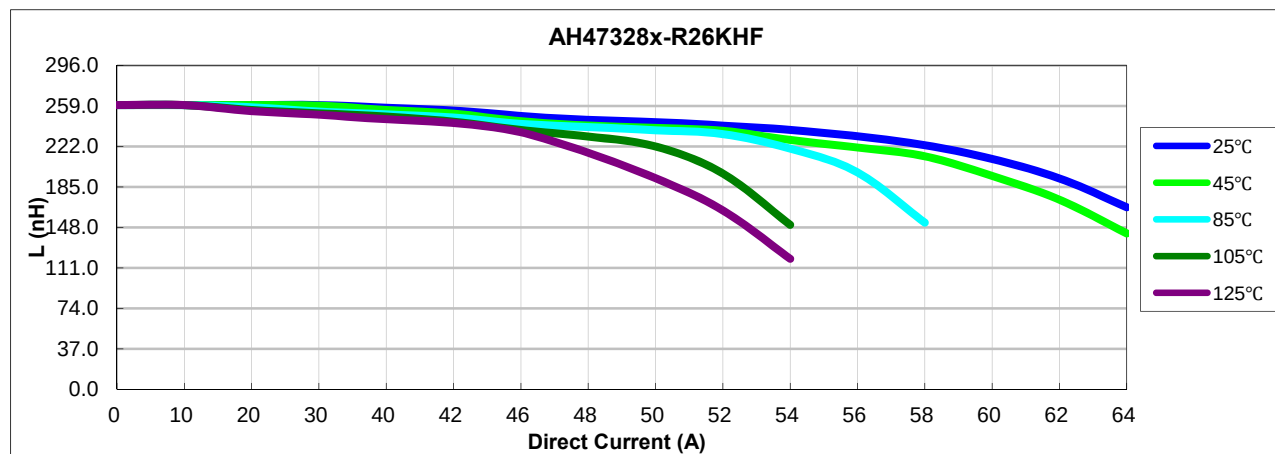
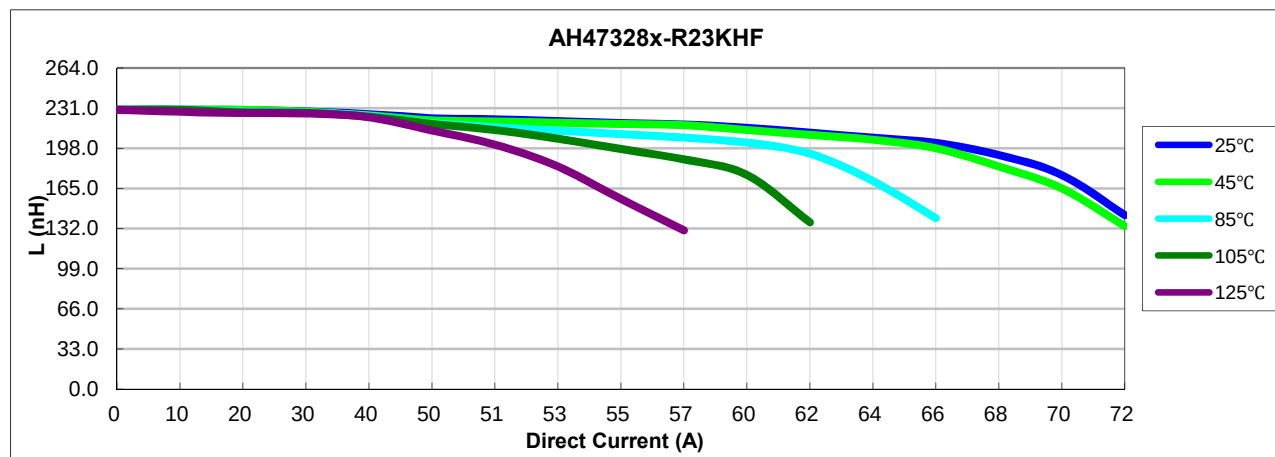
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4. Inductance Characteristics of AH47328A Series (Inductance vs Current):

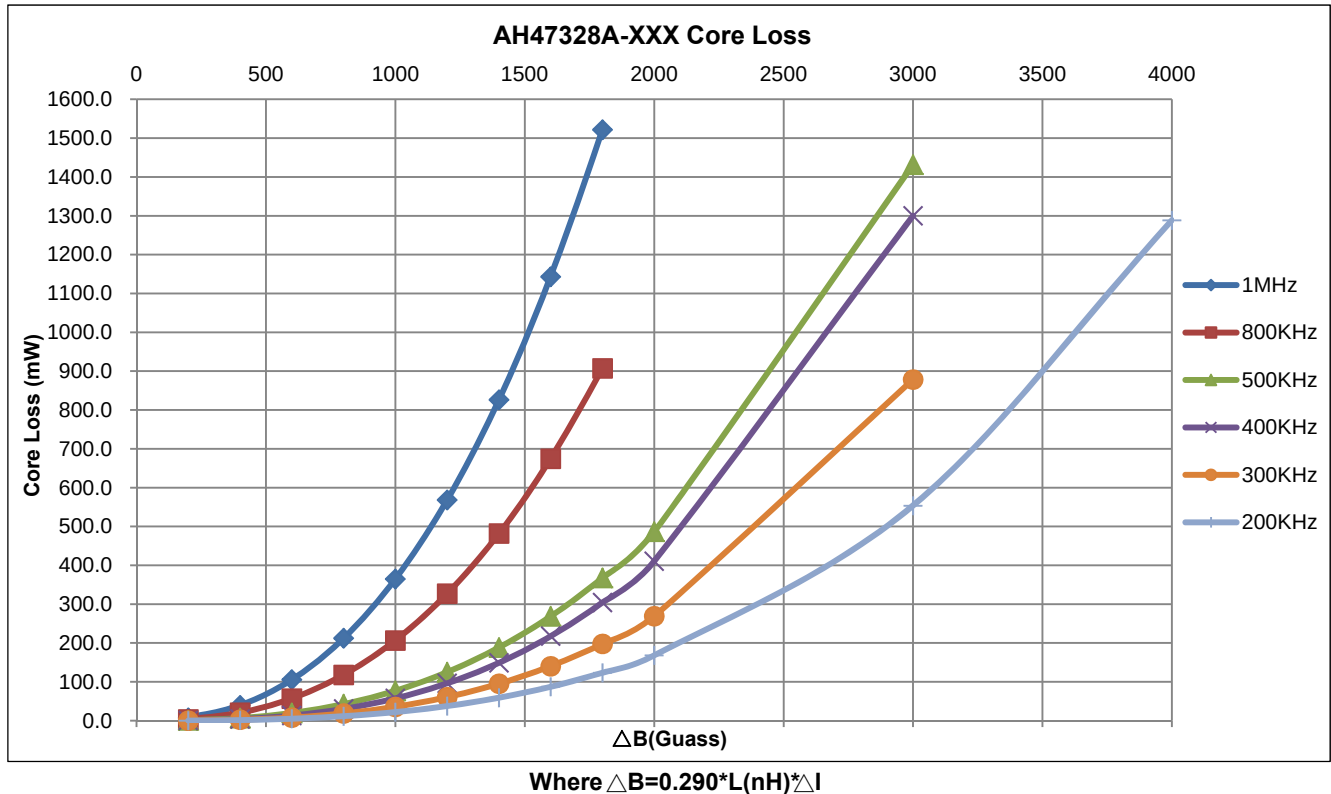




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5. Core loss Characteristics of AH47328A Series:



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