

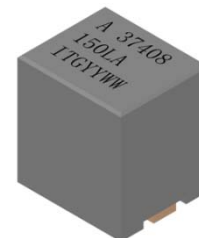


AHR37408 Series



1. Features of AHR37408 Series:

- Low Audio Noise Ferrite based SMD Box inductor.
- Inductance range: 70.0nH up to 150.0nH, custom values are welcomed
- High current output chokes up to 170.0 Amp with approx. 20% roll off.
- Low profile 10.00mm max height.
- 9.41 x 8.00mm max. Foot Print.
- Idea for Graphic Card, GPU's current output chokes applications.
- Operating frequency of up to 5.0MHz.
- Operating temperature range of -55° C to + 130° C
- RoHS & HF compliant.
- T & R Qty's: 400pcs, 13" Reel.

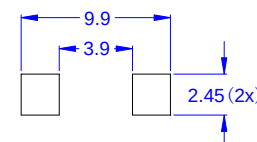
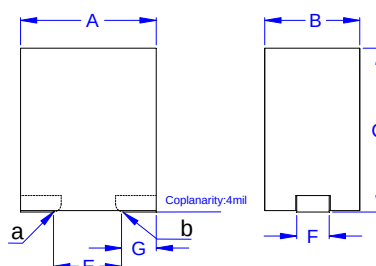
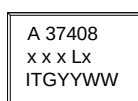


2. Electrical Characteristics of AHR37408 Series:

ITG Part Number	Inductance ¹ (nH) ± 15%	L @ Isat1 ² (nH) Min.	DCR ³ (mΩ) ± 5.0%	Isat1 ⁴ (A) @25°C	Isat2 ⁴ (A) @75°C	Isat3 ⁴ (A) @100°C	Irms ⁵ (A) @25°C
AHR37408A-70L	70.00	49.00	0.16	170.00	160.00	155.00	66.00
AHR37408A-90L	90.00	63.00	0.16	120.00	108.00	104.00	66.00
AHR37408A-100L	100.00	70.00	0.16	114.00	106.00	102.00	66.00
AHR37408A-120L	120.00	84.00	0.16	94.00	84.00	80.00	66.00
AHR37408A-150L	150.00	105.00	0.16	78.00	72.00	68.00	66.00

3. Mechanical Dimension of AHR37408 Series:

A	B	C	E	F	G
Max.	Max.	Max.	± 0.30	± 0.20	± 0.20
9.41	8.00	10.00	4.40	2.00	2.50

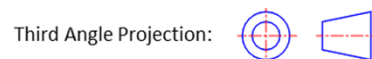


Suggested Pad Layout

Part Marking:
A 37408: A 37408 is Series Name.
xxLx: xxx is inductance value in nH, L is OCL Tolerance.
x is Special Code
ITGYYWW: ITG is Company Name, YYWW is 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, 0.25Vrms (Ta=25°C).
3. The nominal DCR is measured from point "a" to point "b", as shown above on 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. 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.
6. It is recommended the part temperature not exceed 130° C under worst case operating conditions as verified in the end application.



Third Angle Projection:

● 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.1 : October 15, 2018

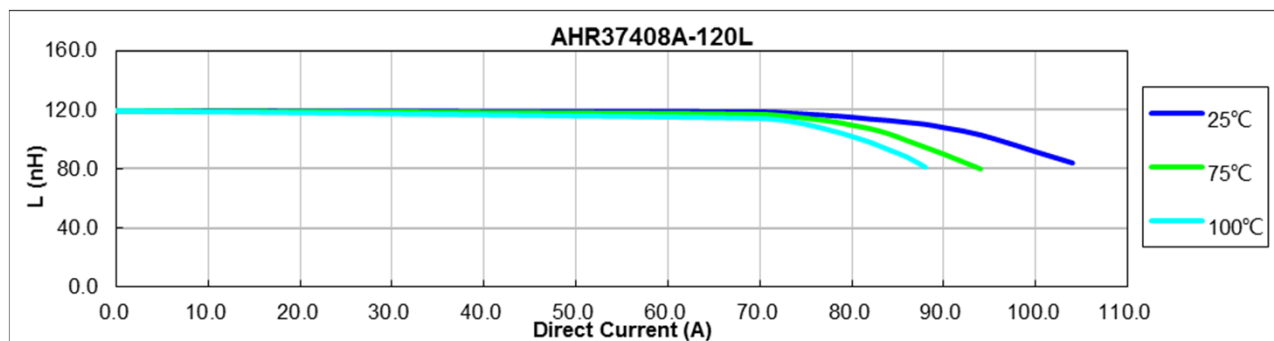
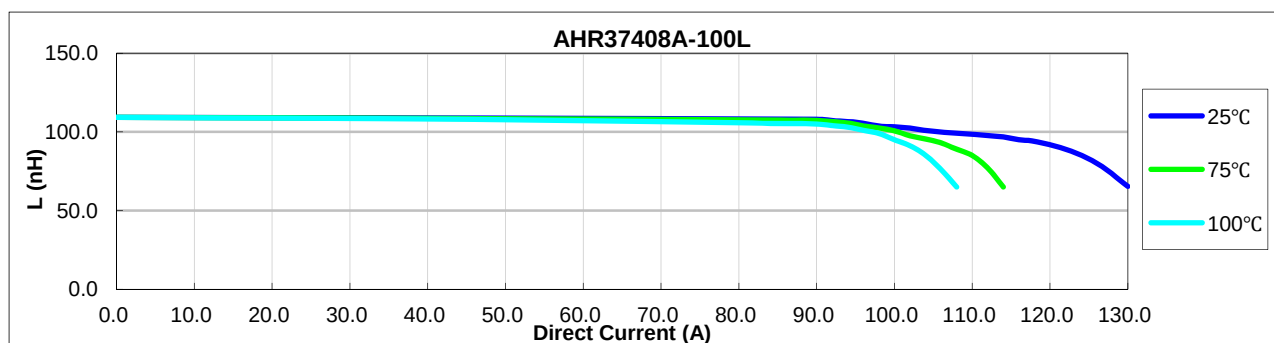
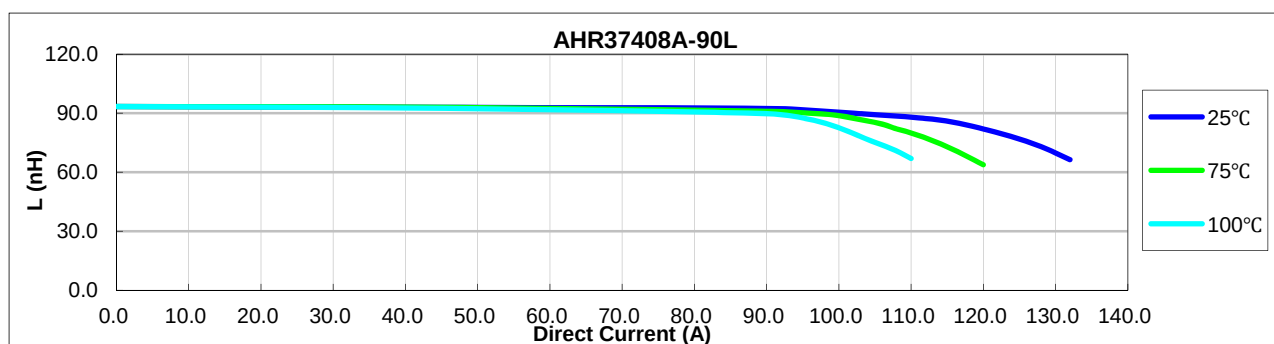
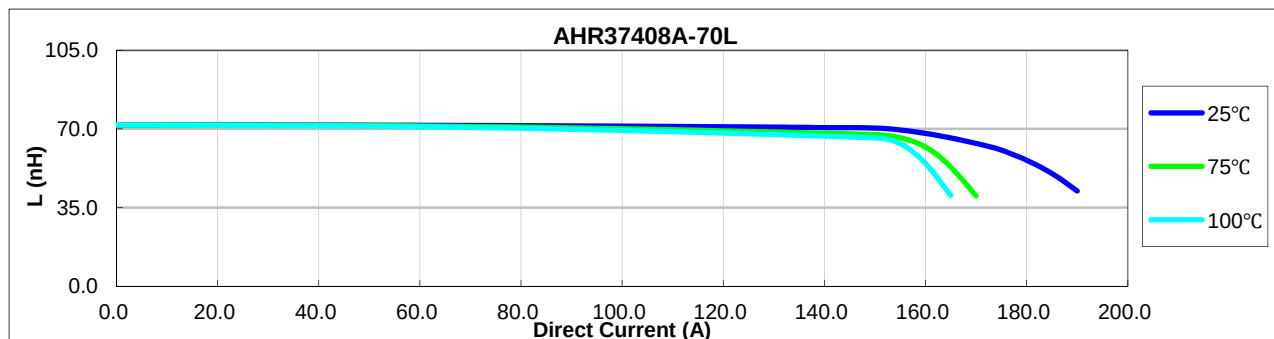
*Due to continuous product improvement, all specifications are subject to change without prior notice. Kindly contact an ITG field application engineer or a sales representative prior to purchase.



AHR37408 Series



4. Inductance Characteristics of AHR37408 Series (Inductance vs Current):

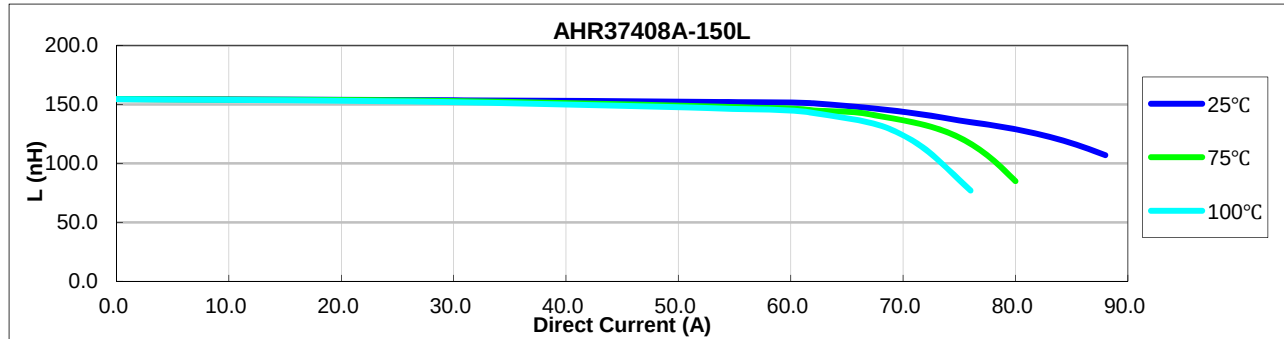


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