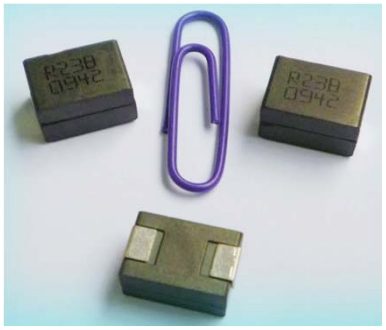
AH43308 Series



1. Features:

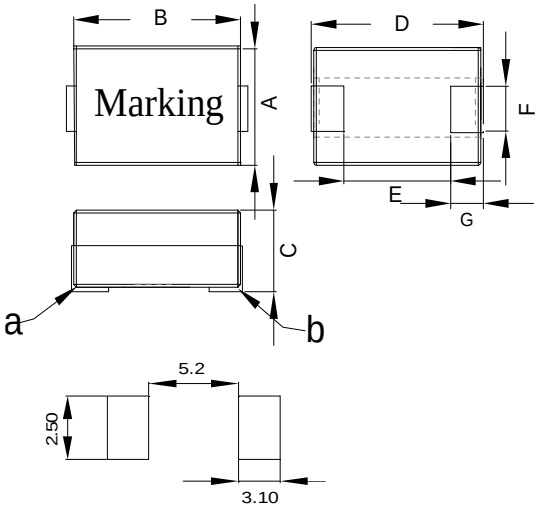
- Ferrite based SMD Inductor with lower core loss at high frequency application.
- Inductance Range:170nH to 370nH ,Custom values are welcomed.
- High current output chokes, upto 71 Amp with max. 20% roll off.
- Low Profile 7.5mm Max. height .
- Foot Print 11.0 x 8.0 mm Max.
- Ideal for Buck Converter, VRM & High Density Board Design.
- Operating up to 2 MHz application.
- Operating Temperature Range -55°C to + 130°C , RoHs compliance

2. Electrical Characteristic of AH43308 Series:

Part Number	Inductance (uH) 10% or 15%	DCR (mΩ) ± 7%	Isat[1] (A) @25℃	Isat[2] (A) @45℃	Isat[3] (A) @100℃	Irms (A) @25℃
AH43308A-R17KHF	0.17, 10%	0.29	71	67	63	48
AH43308B-R17KHF	0.17, 10%	0.40	71	67	63	41
AH43308C-R17KHF	0.17, 10%	0.48	71	67	63	37
AH43308A-R18KHF	0.18, 10%	0.29	68	64	60	48
AH43308B-R18KHF	0.18, 10%	0.40	68	64	60	41
AH43308C-R18KHF	0.18, 10%	0.48	68	64	60	37
AH43308A-R21KHF	0.215, 10%	0.29	52	50	46	48
AH43308B-R21KHF	0.215, 10%	0.40	52	50	46	41
AH43308C-R21KHF	0.215, 10%	0.48	52	50	46	37
AH43308A-R28LHF	0.28, 15%	0.29	38	37	34	48
AH43308B-R28LHF	0.28, 15%	0.40	38	37	34	41
AH43308C-R28LHF	0.28, 15%	0.48	38	37	34	37
AH43308A-R37LHF	0.37, 15%	0.29	26	25	23	48
AH43308B-R37LHF	0.37, 15%	0.40	26	25	23	41
AH43308C-R37LHF	0.37, 15%	0.48	26	25	23	37

3. Mechanical Dimension(Unit:mm):

A Max.	B Max.	C Max.	D Max.	E Nom.	F Nom.	G Nom.
8.0	10.6	7.5	11.0	5.6	2.3	2.5



Suggested Pad Layout

Note:

1>.Open Circuit Inductance (OCL) test condition:500KHz,0.25Vrms ,0Adc.

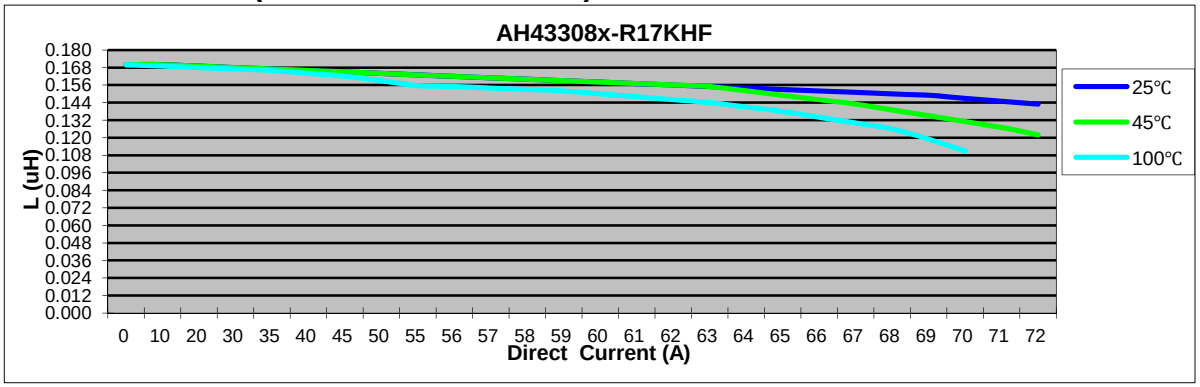
2>.Full Load Inductance (FLL) Test condition:500KHz,0.25Vrms ,Isat;(Ta=25℃).

3>.Isat[1],Isat[2] & Isat3: DC current that will cause inductance to drop approximately by 20%;(Ta=25℃).

4>. Irms: DC current for an approximate temperature rise of 40℃ 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. It is recommended the part temperature not exceed 130°C under worst case operating conditions verified in the end application.

5>.The nominal DCR is measured from point "a" to point"b",as shown above on the mechanical drawing.

4. Inductance characteristics (Inductance vs. Current):



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Inductance vs. Current