AH2511 Series

1. Features:

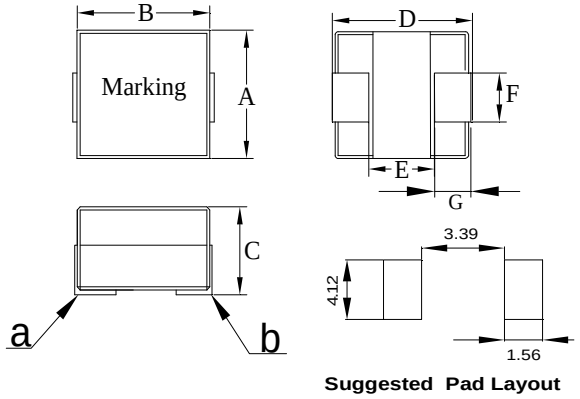
· Ferrite based SMD Inductor with lower core loss at high frequency application.
· Custom values are welcomed.
· High current output chokes, upto 22 Amp with max. 20% roll off.
· Low Profile 2.9mm Max. height .
· Foot Print 7.2 x 6.6 mm Max.
· Ideal for Buck Converter, VRM & High Density Board Design.
· Operating up to 2 MHz application.
· Operating Temperature Range -55°C to + 130°C

2. Electrical Characteristic of AH2511 Series:

Part Number	Inductance (uH) ± 20%	DCR (mΩ) ± 7%	Isat[1] (A) @25℃	Isat[2] (A) @45℃	Isat[3] (A) @100℃	Irms (A) @25℃
AH2511A-R10MHF	0.10	0.35	22	21	20	19
AH2511B-R10MHF	0.10	0.30	22	21	20	21
AH2511C-R10MHF	0.10	0.28	22	21	20	22

3. Mechanical Dimension(Unit:mm):

A Max.	B Max.	C Max.	D Max.	E Nom.	F Nom.	G Nom.
6.6	6.6	2.9	7.2	3.9	3.3	1.3



Suggested Pad Layout

Note:

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

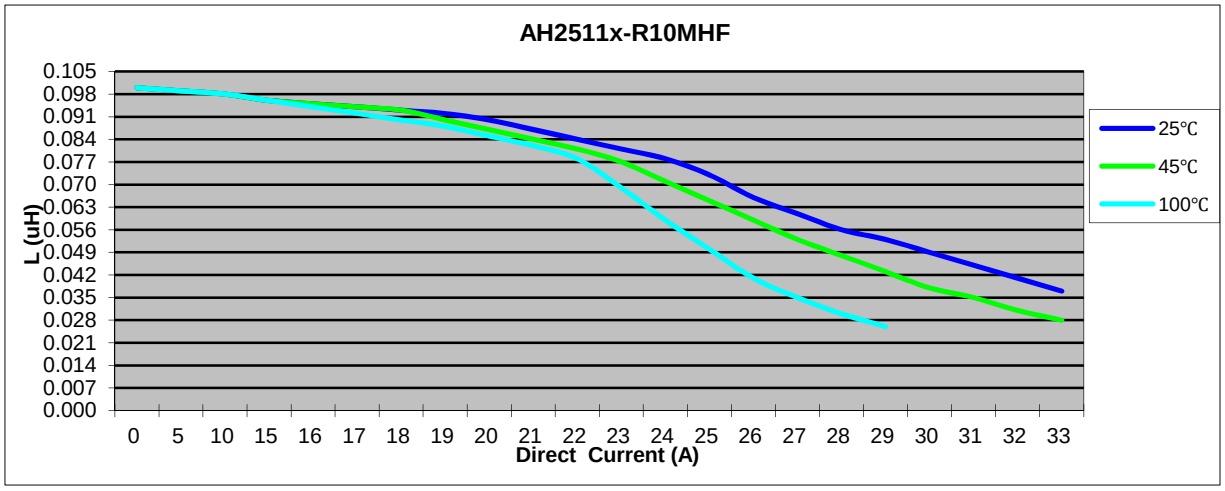
2>.Full Load Inductance (FLL) Test condition:500KHz,0.25Vrms ,Isat;(Ta=25℃).

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:



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