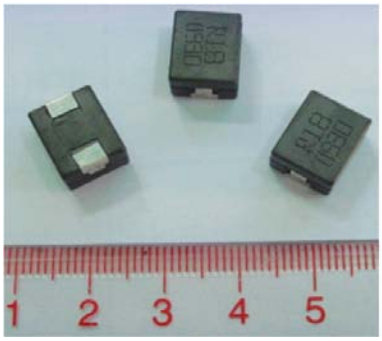
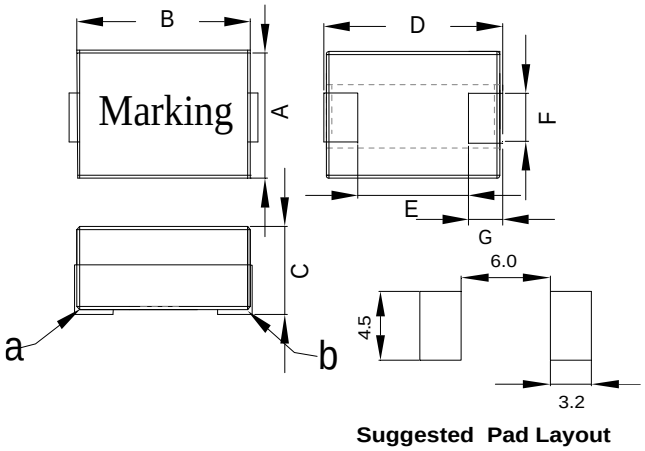
AH4725 Series



1. Features:

· Ferrite based SMD Inductor with lower core loss.
· Custom values are welcomed.
· High current output chokes, upto 64 Amp with max. 20% roll off.
· Low Profile 6.5mm Max. height .
· Foot Print 12.1 x 10.0 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



Suggested Pad Layout

2. Electrical Characteristic of AH4725 Series:

Part Number	Inductance (uH) ± 10%	DCR (mΩ) ± 7%	Isat[1] (A) @25℃	Isat[2] (A) @45℃	Isat[3] (A) @100℃	Irms (A) @25℃
AH4725-R18KHF	0.18	0.48	64	60	57	40
AH4725-R23KHF	0.23	0.48	54	52	49	40

3. Mechanical Dimension(Unit:mm):

A Max.	B Max.	C Max.	D Max.	E Nom.	F Nom.	G Nom.
10.0	11.7	6.5	12.1	7.0	3.8	2.3

Note:

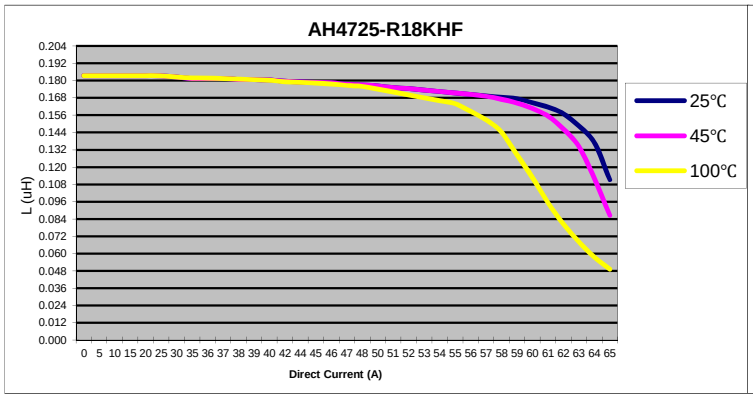
1.Open Circuit Inductance (OCL) test condition: At 500KHz,0.25Vrms

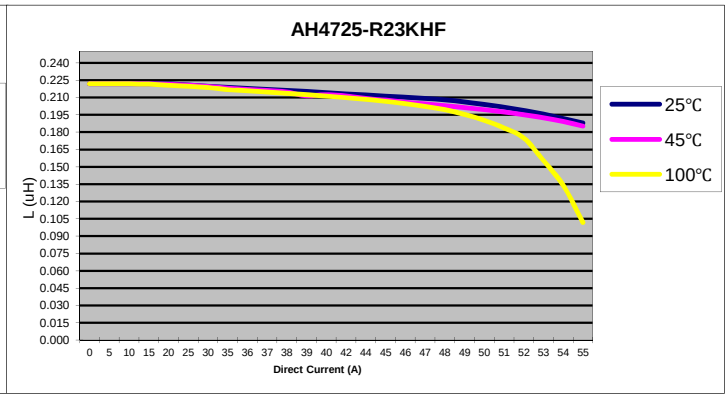
2.Full Load Inductance (FLL) Test condition(Isat): At 500KHz,0.25Vrms .

3.Isat[1],Isat[2] & Isat3: DC current that will cause inductance to drop approximately by 20%.

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.





New York 1.914.347.2474 ●Taiwan 886.972.022.388 ●Shenzhen 86.755.8418.6263 ●Shanghai 86.21.5424.5141 ●Hong Kong 852.9688.9767
sales@inter-technical.com ● www.inter-technical.com

Revision B: 11/18/11