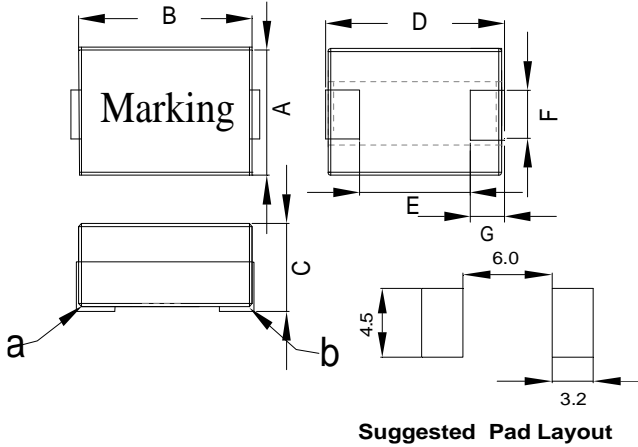
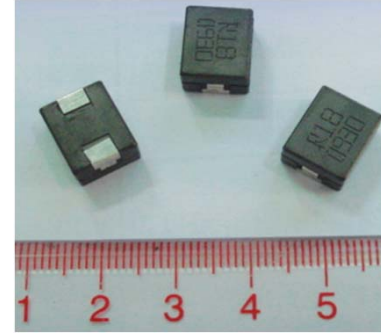


AH4727 Series



1. Features:

- Ferrite based SMD Inductor with lower core loss.
- Custom values are welcomed.
- High current output chokes, upto 65 Amp with max. 20% roll off.
- Low Profile 7.0mm 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



2. Electrical Characteristic of AH4727 Series:

Part Number	Inductance (uH) ± 10%	DCR (mΩ) ± 7%	Isat ¹ (A) @25°C	Isat ² (A) @45°C	Isat ³ (A) @100°C	Irms (A) @25°C
AH4727-R18KHF	0.18	0.48	65	63	59	40
AH4727-R23KHF	0.23	0.48	56	54	52	40

3. Mechanical Dimension(Unit:mm):

A	B	C	D	E	F	G
Max.	Max.	Max.	Max.	Nom.	Nom.	Nom.
10.0	11.7	7.0	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. Isat¹, Isat² & Isat³: DC current that will cause inductance to drop approximately by 20%.
4. 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. 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.

