

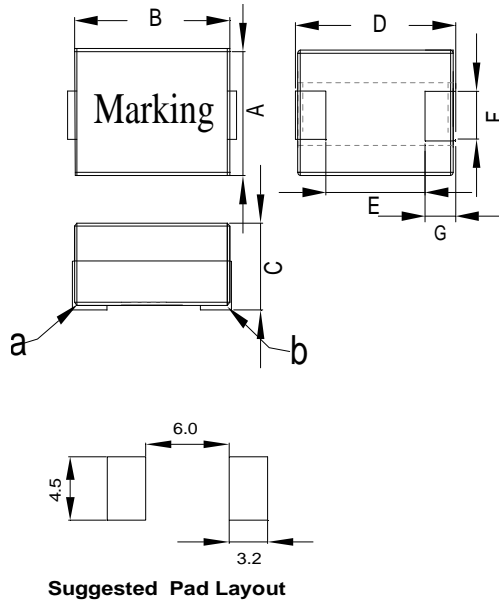
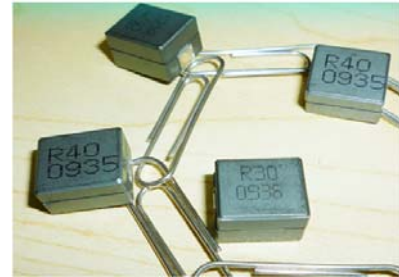


# AH4730 Series



## 1. Features:

- Ferrite based SMD Inductor with lower core loss.
- Custom values are welcomed.
- High current output chokes, upto 70 Amp with max. 20% roll off.
- Low Profile 7.5mm 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



## 2. Electrical Characteristic of AH4730 Series:

Part Number	Inductance (uH) ± 10%	DCR (mΩ) ± 7%	Isat <sup>1</sup> (A) @25°C	Isat <sup>2</sup> (A) @45°C	Isat <sup>3</sup> (A) @100°C	Irms <sup>4</sup> (A) @25°C
AH4730-R19KHF	0.19	0.48	70	68	66	42
AH4730-R24KHF	0.24	0.48	64	59	54	42
AH4730-R27KHF	0.27	0.48	55	54	50	42
AH4730-R30KHF	0.30	0.48	46	45	41	42
AH4730-R40KHF	0.40	0.48	30	29	28	42
AH4730-R51KHF	0.51	0.48	27	24	23	42

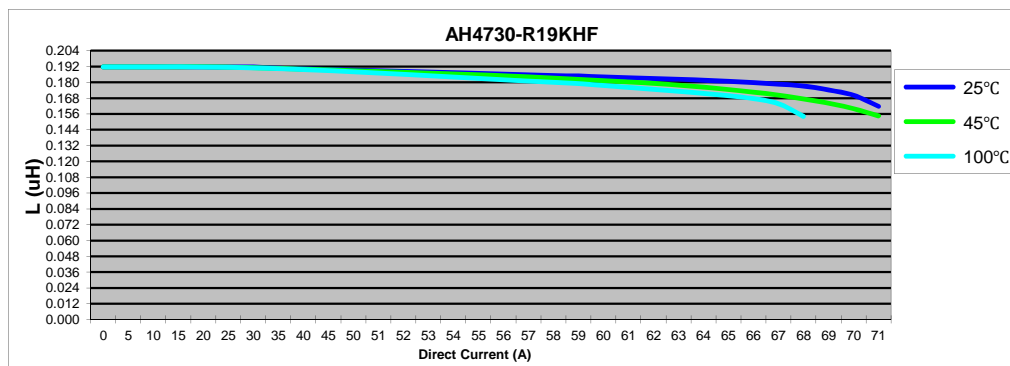
## 3. Mechanical Dimension(Unit:mm):

A	B	C	D	E	F	G
Max.	Max.	Max.	Max.	Nom.	Nom.	Nom.
10.0	11.7	7.5	12.1	7.0	3.8	2.5

## Note:

- 1.Open Circuit Inductance (OCL) test condition: At 500KHz,0.25Vrms;
- 2.Full Load Inductance (FLL) Test condition(Isat): At 500KHz,0.25Vrms ;(Ta=25°C).
- 3.Isat<sup>1</sup>,Isat<sup>2</sup> & Isat<sup>3</sup>: DC current that will cause inductance to drop approximately by 20% ;(Ta=25°C).
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;

## 4. Inductance characteristics:





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