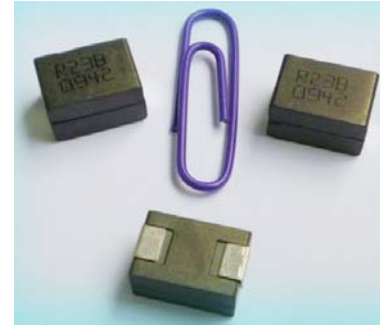


AH47308 Series



1. Features:

- Ferrite based SMD Inductor with lower core loss at high frequency application
- Inductance Range:180nH to 230nH , Custom values are welcomed
- High current output chokes, upto 71 Amp with max. 20% roll off.
- Low Profile 7.5mm Max. height .
- Foot Print 12.1 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

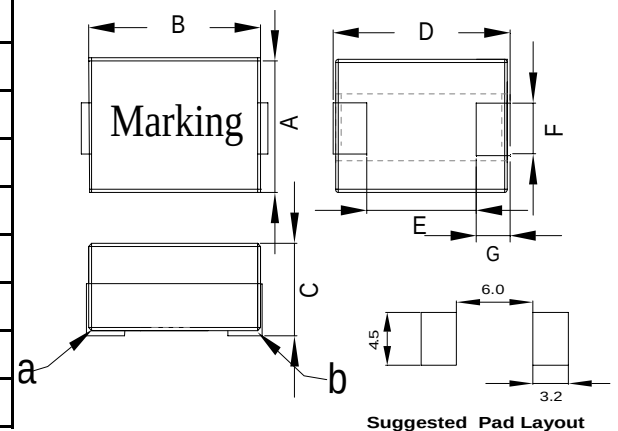


2. Electrical Characteristic of AH47308 Series:

Part Number	Inductance (uH) ± 10%	DCR (mΩ) ± 7%	Isat1 (A) @25°C	Isat2 (A) @45°C	Isat3 (A) @100°C	Irms (A) @25°C
AH47308A-R18KU	0.18	0.40	71	69	62	46
AH47308B-R18KU	0.18	0.48	71	69	62	42
AH47308C-R18KU	0.18	0.29	71	69	62	54
AH47308A-R21KU	0.21	0.40	64	62	54	46
AH47308B-R21KU	0.21	0.48	64	62	54	42
AH47308C-R21KU	0.21	0.29	64	62	54	54
AH47308A-R23KU	0.23	0.40	54	52	48	46
AH47308B-R23KU	0.23	0.48	54	52	48	42
AH47308C-R23KU	0.23	0.29	54	52	48	54

3. Mechanical Dimension(Unit:mm):

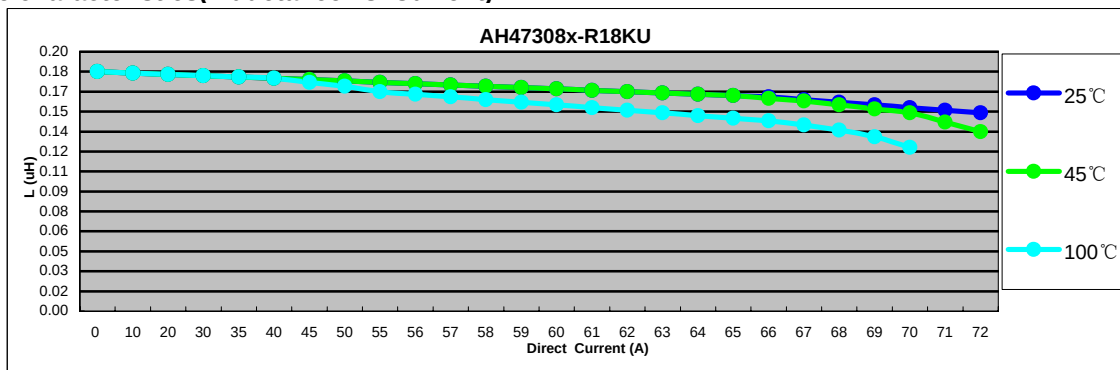
A	B	C	D	E	F	G
Max.	Max.	Max.	Max.	Nom.	Nom.	Nom.
8.0	11.7	7.5	12.1	7.0	3.8	2.3



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°C).
- 3>.Isat¹,Isat² & Isat³: 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(Inductance vs. Current):





AH47308 Series

Inductance vs. Current

