



Preliminary spec AH2520 Series



1. Features:

- Ferrite based SMD Inductor with lower core loss.
- Inductance Range: 72nH to 100nH , Custom values are welcomed.
- High current output chokes, upto 60.0 Amp with approx. 20% roll off.
- Low Profile 4.96mm Max. height .
- 7.00 x 7.00mm foot print.
- Ideal for Buck Converter, VRM & High Density Board Design.
- Operating frequency up to 2 MHz application.
- Operating Temperature Range -55°C to + 130°C , RoHs & HF compliance .
- T & R Qtys: 1000 pcs , 13" Reel ;

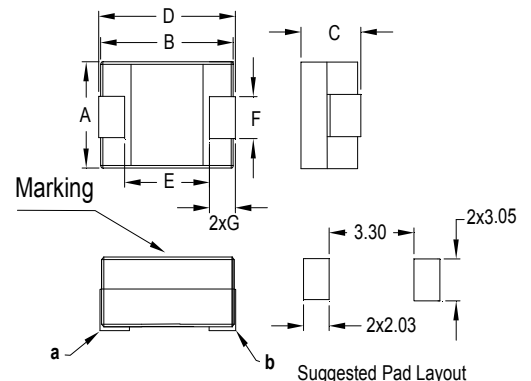


2. Electrical Characteristic of AH2520 Series:

Part Number	Inductance (uH) ±20%	DCR (mΩ) ± 6.5%	Isat ¹ (A) @25°C	Isat ² (A) @75°C	Isat ³ (A) @100°C	Irms (A) @25°C
AH2520A-R072MHF	72.00	0.460	60.00	56.00	50.00	31.00
AH2520A-R10MHF	105.00	0.460	46.00	42.00	38.00	31.00

3. Mechanical Dimension(unit: mm):

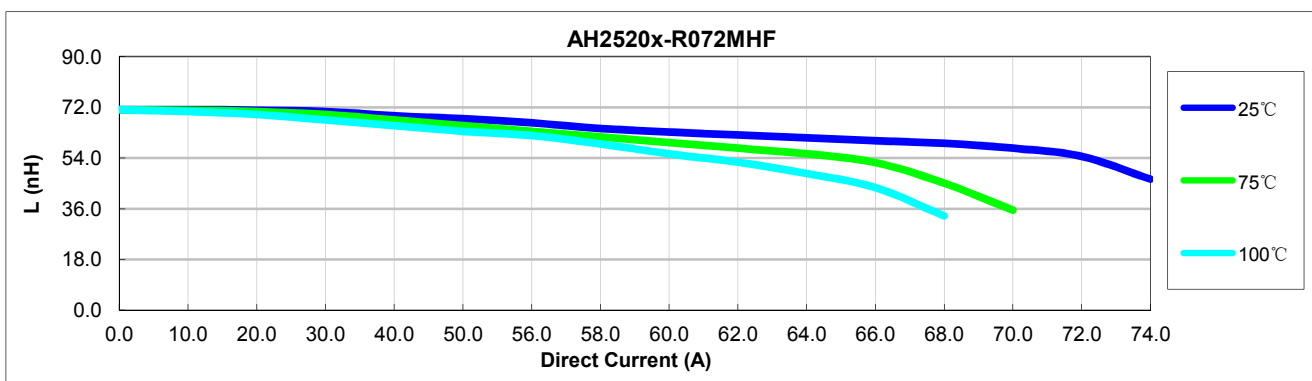
A	B	C	D	E	F	G
Max.	Max.	Max.	Max.	Nom.	Nom.	Nom.
7.00	6.80	4.96	7.00	3.90	2.49	1.52



Note:

- 1>.Open Circuit Inductance (OCL) test condition: 500KHz, 0.25Vrms, 0A dc , at 25 °C .
- 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 drops 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.

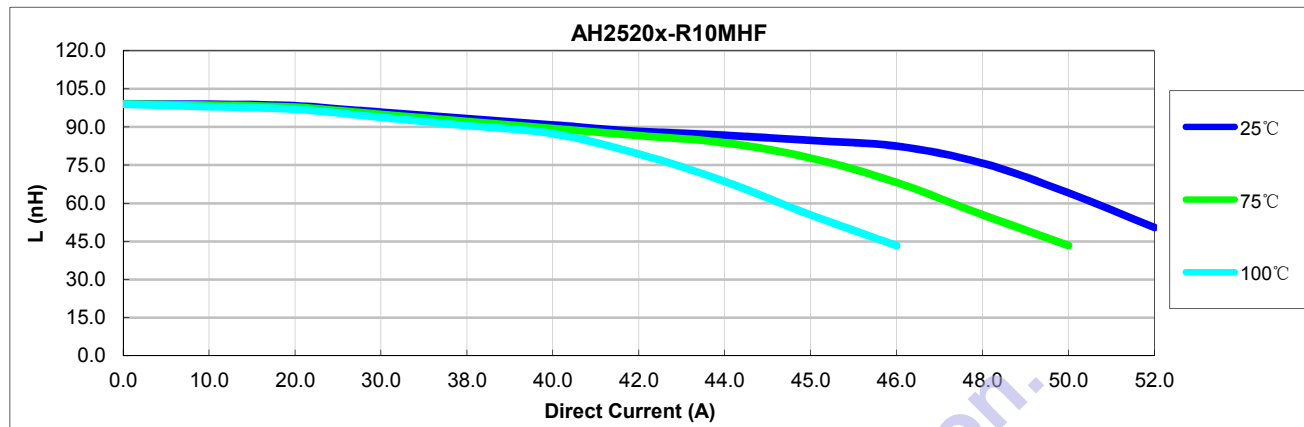
4. Inductance Characteristics (Inductance vs. Current):





AH2520 Series

Inductance vs. Current



Preliminary specification