

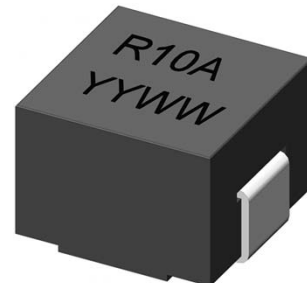


AH2520 Series



1. Features of AH2520 Series:

- Ferrite based SMD inductor with lower core loss.
- Inductance range: 72.0 nH to 150.0 nH, custom values are welcomed.
- High current output chokes, up to 60.0 Amp with approx. 20% roll off.
- Low Profile 4.96 mm Max. height .
- 7.00 x 7.00 mm Foot Print.
- Ideal for Buck Converter, VRM & High Density Board Design.
- Operating frequency of up to 5.0 MHz.
- Operating temperature range of -55° C to + 130° C.
- T & R Qty's: 1000pcs, 13" Reel. RoHS & HF compliant.

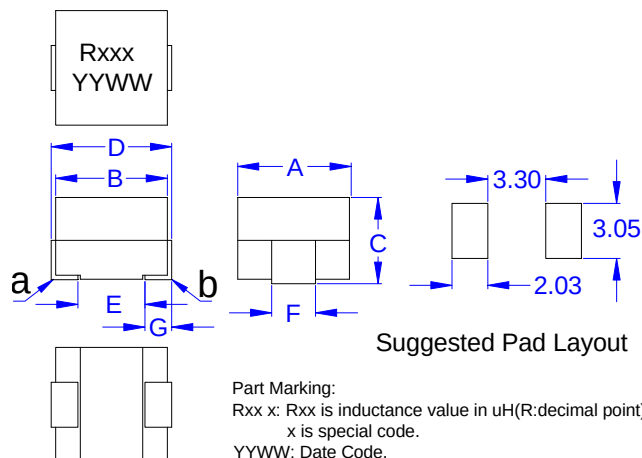


2. Electrical Characteristics of AH2520 Series:

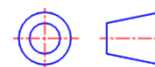
ITG Part Number	OCL ¹ (nH) ± 20%	DCR ³ (mΩ) ± 6.5%	Isat1 ⁴ (A) @25°C	Isat2 ⁴ (A) @75°C	Isat3 ⁴ (A) @100°C	Irms ⁵ (A) @25°C
AH2520A-R072MHF	72.00	0.46	60.00	56.00	50.00	31.00
AH2520A-R10MHF	105.00	0.46	46.00	42.00	38.00	31.00
AH2520A-R15MHF	150.00	0.46	32.00	30.00	28.00	31.00

3. Mechanical Dimension of AH2520 Series:

A	B	C	D	E	F	G
Max.	Max.	Max.	Max.	Ref.	± 0.25	± 0.35
7.00	6.50	4.96	7.00	3.90	2.49	1.52



Third Angle Projection:



Notes:

1. Open Circuit Inductance (OCL) test condition: 500KHz , 0.25Vrms , 0Adc at 25°C.
2. L @ Isat and L @ Irms Test condition: 500KHz , 0.25Vrms (Ta=25°C).
3. The nominal DCR is measured from point "a" to point "b", as shown above on the mechanical drawing (Ta=25°C).
4. Isat1 , Isat2 & Isat3 : DC current that will cause inductance to drop approximately by 20%.
5. 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.
6. It is recommended the part temperature not exceed 130° C under worst case operating conditions as verified in the end application.

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**Due to continuous product improvement, all specifications are subject to change without prior notice. Kindly contact an ITG field application engineer or a sales representative prior to purchase.*



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4. Inductance Characteristics of AH2520 Series (Inductance vs Current):

