

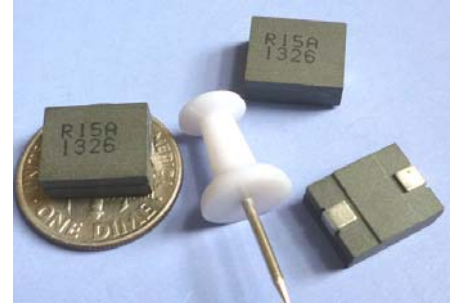


AH43209 Series



1. Features:

- Ferrite based SMD Inductor with lower core loss.
- Custom values are welcomed.
- High current output chokes, upto 53.0 Amp with approx. 20% roll off.
- Low Profile 5.0mm Max. height .
- Foot Print 11.0 x 9.0 mm Max.
- Ideal for Buck Converter, VRM & High Density Board Design.
- Operating frequency up to 2.0 MHz application.
- Operating Temperature Range -55°C to + 130°C , RoHs & HF compliance .
- T & R Qtys: 1000 pcs , 13" Reel ;

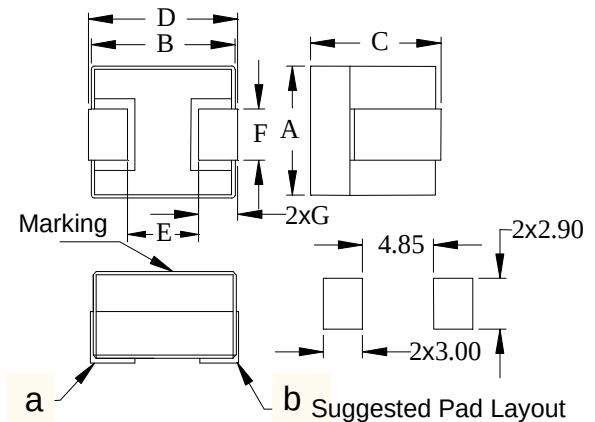


2. Electrical Characteristic of AH43209 Series:

Part Number	OCL ¹ (nH) ±10%	DCR ³ (mΩ) ± 7.0%	Isat1 ⁴ (A) @25°C	Isat2 ⁴ (A) @75°C	Isat3 ⁴ (A) @100°C	Irms ⁵ (A) @25°C
AH43209A-R15KHF	150.00	0.35	53.00	51.00	46.00	62.00

3. Mechanical Dimension(unit: mm):

A (Max.)	B (Max.)	C (Max.)	D (Max.)	E (Nom.)	F ± 0.20	G ± 0.20
9.00	10.90	5.00	11.00	6.00	2.40	2.50



Note:

- 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.
- 4>.Isat1,Isat2 & Isat3: DC current that will cause inductance to drops 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. It is recommended the part temperature not exceed 130°C under worst case operating conditions verified in the end application.

4. Inductance Characteristics (Inductance vs. Current):

