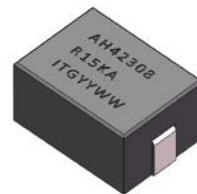


1. Features of AH42308 Series:

- Ferrite based SMD inductor with lower core loss.
- Inductance range: 120.0nH up to 150.0nH, custom values are welcomed
- High current output chokes , up to 95.0 Amp with approx. 20% roll off.
- Low profile 7.50mm max height.
- Foot Print 10.90 x 8.00mm max footprint.
- Perfect for high density designs with limited board space.
- Operating frequency of up to 2.0MHz.
- Operating temperature range of -55° C to + 130° C
- RoHS & HF compliant.
- T & R Qty's: 500pcs, 13" Reel.

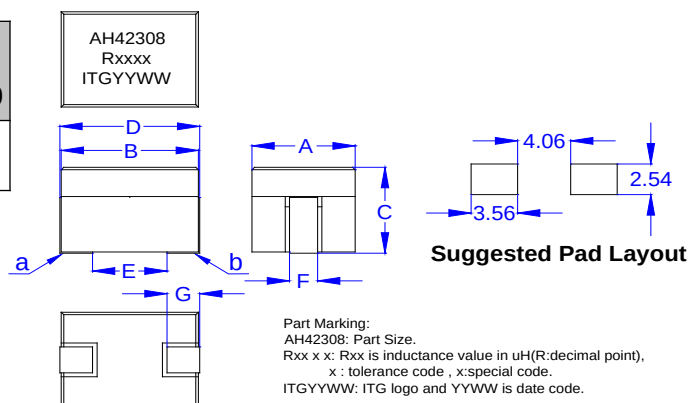


2. Electrical Characteristics of AH42308 Series:

ITG Part Number	OCL ¹ (nH) ± 10%	L @ Isat ² (nH) MIN.	DCR ³ (mΩ) ± 5%	Isat1 ⁴ (A) @25°C	Isat2 ⁴ (A) @75°C	Isat3 ⁴ (A) @100°C	Irms ⁵ (A) @25°C
AH42308A-R12KHF	120.00	86.00	0.18	95.00	90.00	86.00	70.00
AH42308A-R15KHF	150.00	108.00	0.18	68.00	62.00	58.00	70.00

3. Mechanical Dimension of AH42308 Series:

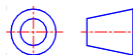
A	B	C	D	E	F	G
± 0.20	± 0.20	± 0.20	± 0.20	(Ref.)	± 0.20	± 0.30
7.80	10.40	7.30	10.70	5.70	2.20	2.50



Notes:

1. Open Circuit Inductance (OCL) test condition: 500KHz, 0.25Vrms, 0A DC at 25°C.
2. L @ Isat and L @ Irms Test condition: 500KHz, 0.25Vrm (Ta=25°C).
3. The nominal DCR is measured from point "a" to point "b" as shown above in 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.
6. Derating is necessary for AC currents. Verify and check PCB pad layout, trace thickness, width, air-flow and proximity of other heat generating components as it will have an effect on the temperature rise.
7. It is recommended that the part temperature should not exceed 130° C under worst operating conditions.

Third Angle Projection:



4. Inductance Characteristics of AH42308 Series (Inductance vs Current):

