

1. Features of AH2511 Series:

- Ferrite based SMD inductor with lower core loss.
- Inductance range: 0.047 uH to 0.10 uH , custom values are welcomed.
- High current output chokes, up to 53.0 Amp with approx. 20% roll off.
- Low profile 2.90 mm / 3.10 mm Max.
- 7.20 x 6.60 mm Foot Print.
- Perfect for high density designs with limited board space.
- Operating frequency of up to 5.0MHz.
- Operating temperature range of -55° C to + 130° C. RoHS & HF compliant.
- T & R Qty's: 800pcs, 13" Reel.

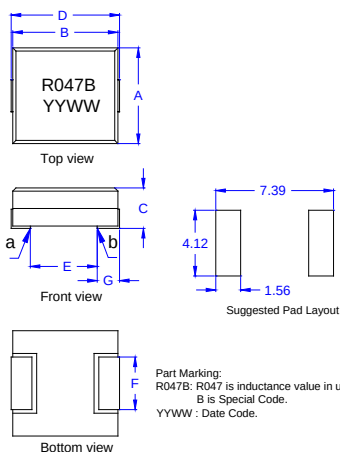


2. Electrical Characteristics of AH2511 Series:

ITG Part Number	OCL ¹ (uH) ± 20%	L @ Isat1 ² (uH) Min.	DCR ³ (mΩ) ± 7%	Isat1 ¹ (A) @25°C	Isat2 ⁴ (A) @45°C	Isat3 ⁴ (A) @100°C	Irms ⁵ (A) @25°C	Dim C mm Max.
AH2511B-R047MHF	0.047	0.034	0.300	53.00	47.00	44.00	21.00	3.10
AH2511B-R10MHF	0.10	0.072	0.300	22.00	21.00	20.00	21.00	2.90

3. Mechanical Dimension of AH2511 Series:

A Max.	B Max.	C Max.	D Max.	E Nom.	F Nom.	G Nom.
6.60	6.60	See above table	7.20	3.90	3.30	1.30



Third Angle Projection:

Notes:

- Open Circuit Inductance (OCL) test condition: 500KHz , 0.25Vrms , 0A DC at 25°C.
- L @ Isat and L @ Irms Test condition: 500KHz , 0.25Vrm (Ta=25°C).
- The nominal DCR is measured from point "a" to point "b" as shown above in the mechanical drawing (Ta=25°C).
- Isat1, Isat2 & Isat3: DC current that will cause inductance to drop approximately by 20%.
- Irms: DC current for an approximate temperature rise of 40°C without core loss.
- 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.
- It is recommended that the part temperature should not exceed 130 °C under worst operating conditions.

4. Inductance Characteristics of AH2511 Series (Inductance vs Current):

