

Power Inductor

AHP201210RA-SERIES

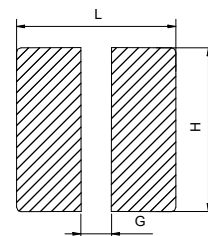
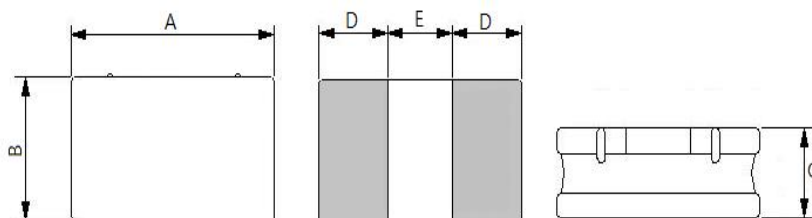
1. Features

1. This specification applies Low Profile Power Inductors.
2. 100% Lead(Pb) & Halogen-Free and RoHS compliant.



2. Dimension

Recommended PC Board Pattern

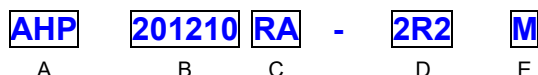


Series	A(mm)	B(mm)	C(mm)	D(mm)	E(mm)
AHP201210RA	2.0 ± 0.2	1.2 ± 0.2	1.0Max	0.50 ref	1.00 ref

L(mm)	G(mm)	H(mm)
2.40	0.60	1.44

Units: mm

3. Part Numbering



A: Series

B: Dimension

C: Lead Free

Material

D: Inductance

2R2=2.20uH

E: Inductance Tolerance

K=± 10%, L=± 15%, M=± 20%, Y=± 30%.

4. Specification

Part Number	Inductance (uH) ± 20% @ 0 A	Test Frequency (Hz)	I rms (A)		I sat (A)		DCR (Ω)	
			Typ	Max	Typ	Max	Typ	Max
AHP201210RA-R47M	0.47	1V/1M	2.70	2.40	2.80	2.50	0.050	0.060
AHP201210RA-R68M	0.68	1V/1M	2.40	2.10	2.50	2.20	0.060	0.080
AHP201210RA-1R0M	1.00	1V/1M	1.80	1.50	1.90	1.60	0.090	0.108
AHP201210RA-1R5M	1.50	1V/1M	1.60	1.30	1.80	1.40	0.130	0.156
AHP201210RA-2R2M	2.20	1V/1M	1.50	1.20	1.70	1.30	0.190	0.228
AHP201210RA-3R3M	3.30	1V/1M	1.30	1.10	1.40	1.10	0.290	0.348
AHP201210RA-4R7M	4.70	1V/1M	1.10	0.90	1.00	0.80	0.340	0.408
AHP201210RA-6R8M	6.80	1V/1M	0.95	0.75	0.90	0.70	0.540	0.648
AHP201210RA-100M	10.0	1V/1M	0.65	0.55	0.60	0.50	0.780	0.936
AHP201210RA-220M	22.0	1V/1M	0.50	0.40	0.45	0.35	1.700	2.040

Note:

Isat: Saturation Current (Isat) will cause L0 to drop approximately 30%. @ ambient temp. 25℃

Irms: Heat Rated Current (Irms) will cause the coil temperature rise approximately ΔT of 40℃

Rated DC current: The lower value of Irms and Isat.

Measurement board data

Irms

Material : FR4

Board dimensions : 100 X 50 X 1.6t mm

Pattern dimensions: 45 X 30 mm (Double side board)

Pattern thickness : 50 μm

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10. Typical Performance Curves

