

Power Inductor

AHP201210FA-SERIES

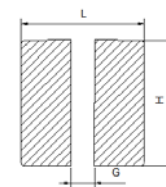
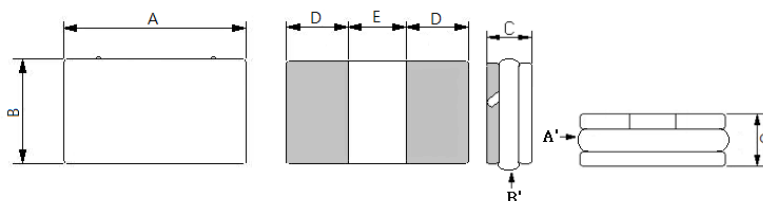
1. Features

1. This specification applies Low Profile Power Inductors.
2. 100% Lead(Pb) & Halogen-Free and RoHS compliant.
3. Operating temperature -40~+125°C (Including self - temperature rise)



2. Dimension

Recommended PC Board Pattern



Series	A(mm)	A'(mm)	B(mm)	B'(mm)	C(mm)	D(mm)	E(mm)
AHP201210FA	2.0±0.2	2.3 Max	1.2±0.2	1.5 Max	1.0Max	0.50 ref	1.00 ref

Units: mm

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

3. Part Numbering

AHP
201210
FA
-
2R2
M

A

B

C

D

E

A: Series

B: Dimension

C: Lead Free

Material

D: Inductance

2R2=2.2uH

E: Inductance Tolerance

K=± 10%, L=± 15%, M=± 20%, Y=± 30%.

4. Specification

TAI-TECH Part Number	Inductance (uH)	Test Frequency (Hz)	DCR (Ω)		I sat (A)		I rms (A)	
			typ	Max	typ	Max	typ	Max
AHP201210FA-R24M	0.24	1V/1M	0.022	0.028	6.00	5.00	5.40	4.60
AHP201210FA-R33M	0.33	1V/1M	0.028	0.034	4.50	3.50	4.70	4.10
AHP201210FA-R47M	0.47	1V/1M	0.033	0.042	4.20	3.30	4.30	3.70
AHP201210FA-R68M	0.68	1V/1M	0.045	0.054	3.20	3.00	3.80	3.30
AHP201210FA-1R0M	1.0	1V/1M	0.069	0.078	2.50	2.00	2.30	2.10
AHP201210FA-1R5M	1.5	1V/1M	0.150	0.180	2.20	1.90	2.00	1.70
AHP201210FA-2R2M	2.2	1V/1M	0.210	0.250	1.90	1.60	1.60	1.40
AHP201210FA-3R3M	3.3	1V/1M	0.240	0.288	1.20	1.00	1.50	1.30

Note:

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

Saturation Current (Isat) will cause L0 to drop approximately 30%.

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

10. Typical Performance Curves

