Power Inductor

AHP201208FA-SERIES

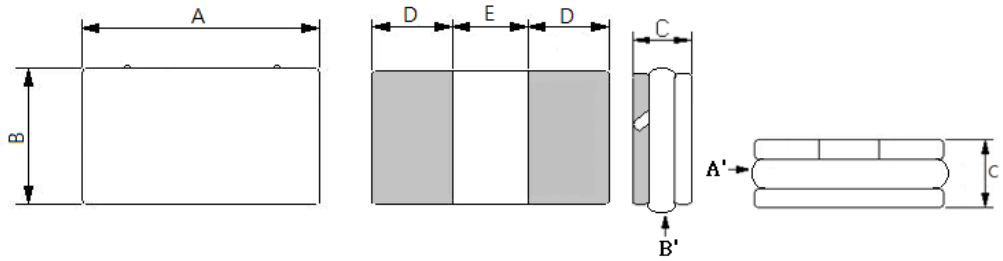
1. Features

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

Halogen-free

RoHS

2. Dimension



Series	A(mm)	A'(mm)	B(mm)	B'(mm)	C(mm)	D(mm)	E(mm)
AHP201208FA	2.0 ± 0.2	2.3 Max	1.2 ± 0.2	1.5 Max	0.80Max	0.50 ref.	1.00 ref.

Units: mm

3. Part Numbering

AHP	201208	FA	-	2R2	M
A	B	C		D	E

A: Series
B: Dimension
C: Lead Free Material
D: Inductance 2R2=2.2uH
E: Inductance Tolerance M=±20%

4. Specification

TAI-TECH Part Number	Inductance (uH)	Tolerance (%)	Test Frequency (Hz)	DCR (Ω) typ.	DCR (Ω) Max.	I sat (A)	I rms (A)
AHP201208FA-R24M	0.24	±20	1V/1M	0.028	0.033	4.50	4.70
AHP201208FA-R33M	0.33	±20	1V/1M	0.036	0.043	3.50	4.30
AHP201208FA-R47M	0.47	±20	1V/1M	0.045	0.054	3.30	4.00
AHP201208FA-R68M	0.68	±20	1V/1M	0.065	0.078	3.10	3.30
AHP201208FA-1R0M	1.0	±20	1V/1M	0.100	0.120	2.50	2.30
AHP201208FA-1R5M	1.5	±20	1V/1M	0.150	0.180	2.20	2.00
AHP201208FA-2R2M	2.2	±20	1V/1M	0.210	0.250	1.90	1.60
AHP201208FA-3R3M	3.3	±20	1V/1M	0.240	0.288	1.20	1.50

Note:

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

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

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