

Power Inductor

AHP121008FA-SERIES

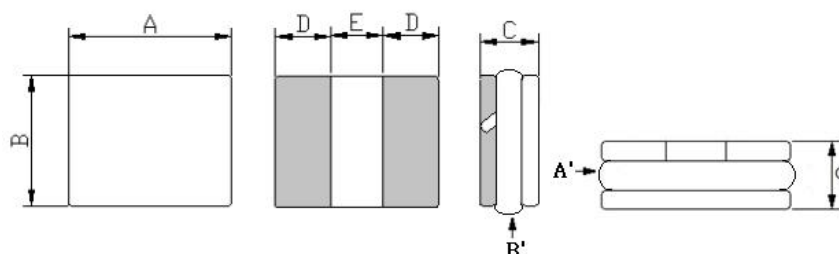
1. Features

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)



Recommended PC Board Pattern

2. Dimension



L(mm)	G(mm)	H(mm)
1.5	0.4	1.3

Series	A(mm)	A'(mm)	B(mm)	B'(mm)	C(mm)	D(mm)	E(mm)
AHP121008FA	1.2 ± 0.2	1.5 Max	1.0 ± 0.2	1.3 Max	0.8 Max	0.40 ref.	0.40 ref.

3. Part Numbering

AHP **121008** **FA** - **1R0** **M**

A: Series
 B: Dimension
 C: Lead Free
 D: Inductance
 E: Inductance Tolerance

Material
 1R0=1.0uH
 M=±20%

4. Specification

TAI-TECH Part Number	Inductance (uH)	Tolerance (%)	Test Frequency (Hz)	DCR (Ω) typ.	DCR (Ω) Max.	I sat (A) typ.	I sat (A) Max.	I rms (A) typ	I rms (A) MAX
AHP121008FA-R24M	0.24	±20	1V/1M	0.040	0.048	4.00	3.50	3.50	3.00
AHP121008FA-R33M	0.33	±20	1V/1M	0.050	0.060	3.30	2.80	3.00	2.60
AHP121008FA-R47M	0.47	±20	1V/1M	0.070	0.084	2.80	2.30	2.60	2.20
AHP121008FA-R68M	0.68	±20	1V/1M	0.100	0.120	2.30	1.80	2.20	1.90
AHP121008FA-1R0M	1.0	±20	1V/1M	0.145	0.174	2.00	1.60	1.60	1.40

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°C

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