

Power Inductor

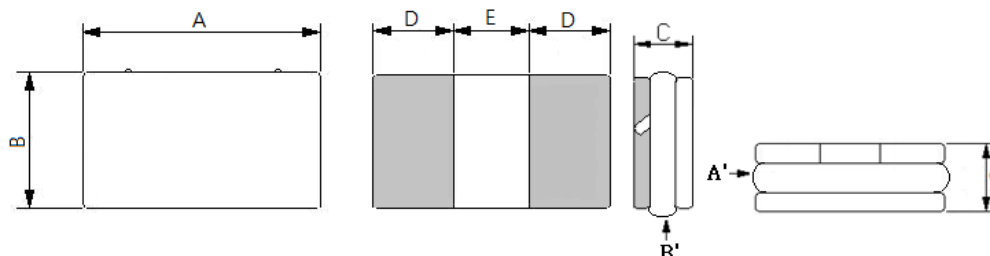
AHP201210FA-SERIES

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)



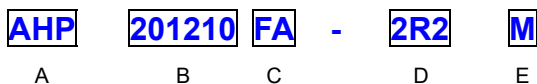
2. Dimension



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

3. Part Numbering



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)
AHP201210FA-R24M	0.24	±20	1V/1M	0.022	0.028	6.00	5.40
AHP201210FA-R33M	0.33	±20	1V/1M	0.028	0.034	4.50	4.70
AHP201210FA-R47M	0.47	±20	1V/1M	0.033	0.042	4.20	4.30
AHP201210FA-R68M	0.68	±20	1V/1M	0.045	0.054	3.20	3.80
AHP201210FA-1R0M	1.0	±20	1V/1M	0.069	0.078	2.50	2.30
AHP201210FA-1R5M	1.5	±20	1V/1M	0.150	0.180	2.20	2.00
AHP201210FA-2R2M	2.2	±20	1V/1M	0.210	0.250	1.90	1.60
AHP201210FA-3R3M	3.3	±20	1V/1M	0.240	0.288	1.20	1.50

Note:

Isat : Based on inductance change ($\Delta L/L0 : \leq 30\%$) @ ambient temp. 25°C

Irms : Based on temperature rise ($\Delta T : 40^{\circ}\text{C}.$) Max

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