

# Power Inductor

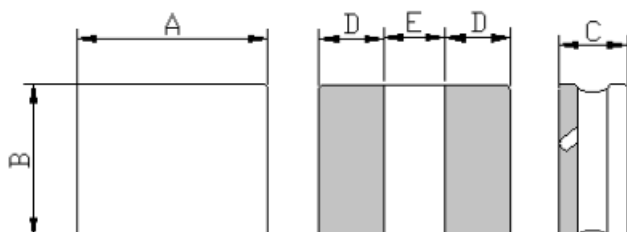
AHP322512FA-SERIES

## 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)



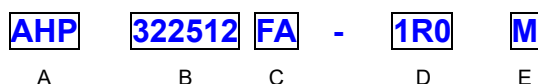
## 2. Dimension



Series	A(mm)	B(mm)	C(mm)	D(mm)	E(mm)
AHP322512FA	3.2 ± 0.2	2.5 ± 0.2	1.2 Max	0.95 ref.	1.30 ref.

Units: mm

## 3. Part Numbering



- A: Series  
 B: Dimension  
 C: Lead Free                      Material  
 D: Inductance                      1R0=1.0uH  
 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)
AHP322512FA-R47M	0.47	±20	1V/1M	0.019	0.025	8.00	5.40
AHP322512FA-R68M	0.68	±20	1V/1M	0.026	0.032	7.20	4.90
AHP322512FA-1R0M	1.0	±20	1V/1M	0.032	0.038	6.00	4.30
AHP322512FA-1R5M	1.5	±20	1V/1M	0.042	0.052	4.80	3.50
AHP322512FA-2R2M	2.2	±20	1V/1M	0.060	0.072	4.30	3.10
AHP322512FA-3R3M	3.3	±20	1V/1M	0.100	0.120	2.80	2.40
AHP322512FA-4R7M	4.7	±20	1V/1M	0.135	0.163	2.30	2.10
AHP322512FA-6R8M	6.8	±20	1V/1M	0.190	0.228	2.10	1.80
AHP322512FA-100M	10	±20	1V/1M	0.300	0.360	1.80	1.50

Note:

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

Irms : Based on temperature rise ( $\Delta T : 40^\circ C.$ ) 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  $\mu m$

