

Power Inductor

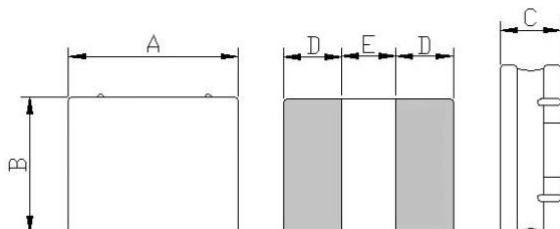
AHP322512RA-SERIES

1. Features

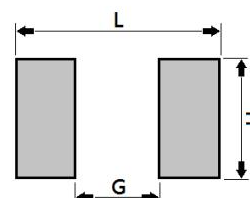
1. This specification applies Low Profile Power Inductors.
2. 100% Lead(Pb) & Halogen-Free and RoHS compliant.
3. Operating temperature -40~+125°C(Including self - temperature rise)



2. Dimension



Recommended PC Board Pattern



Series	A(mm)	B(mm)	C(mm)	D(mm)	E(mm)
AHP322512RA	3.2±0.2	2.5±0.2	1.2 Max	0.95 ref.	1.30 ref.

L(mm)	G(mm)	H(mm)
3.6	1.2	2.8

3. Part Numbering

AHP **322512** **RA** - **1R0** **M**

A B C D E

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) typ.	I sat (A) Max.	I rms (A) typ.	I rms (A) MAX
AHP322512RA-R47M	0.47	±20	1V/1M	0.030	0.036	8.00	7.00	5.00	4.50
AHP322512RA-R68M	0.68	±20	1V/1M	0.035	0.042	6.80	6.00	4.70	4.20
AHP322512RA-1R0M	1.00	±20	1V/1M	0.042	0.051	5.50	4.80	4.00	3.50
AHP322512RA-1R5M	1.50	±20	1V/1M	0.065	0.078	4.50	4.00	3.50	3.00
AHP322512RA-2R2M	2.20	±20	1V/1M	0.090	0.108	3.50	3.00	2.80	2.50
AHP322512RA-3R3M	3.30	±20	1V/1M	0.140	0.168	2.80	2.50	2.20	1.80
AHP322512RA-4R7M	4.70	±20	1V/1M	0.200	0.240	2.50	2.20	1.70	1.50
AHP322512RA-6R8M	6.80	±20	1V/1M	0.290	0.350	2.20	1.80	1.50	1.30
AHP322512RA-100M	10.0	±20	1V/1M	0.350	0.420	1.50	1.20	1.30	1.00

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

Rated DC Current: The less value which is Irms or Isat.

10. Typical Performance Curves

