

Power Inductor

AHP322508RA-SERIES

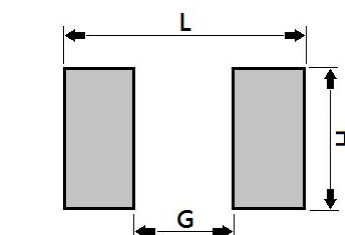
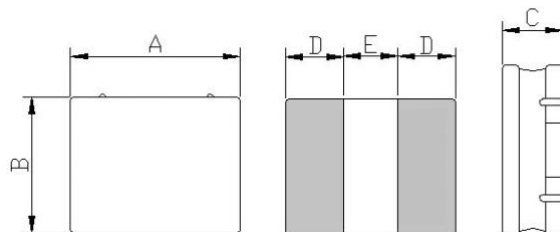
1. Features

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)
AHP322508RA	3.2 ± 0.2	2.5 ± 0.2	0.8 Max	0.95 ref.	1.30 ref.

Units: mm

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

3. Part Numbering

AHP
322508
RA
-
1R0
M

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)
AHP322508RA-R24M	0.24	± 20	1V/1M	0.025	0.030	8.00	6.00
AHP322508RA-R33M	0.33	± 20	1V/1M	0.035	0.042	7.00	5.50
AHP322508RA-R47M	0.47	± 20	1V/1M	0.050	0.060	6.00	4.30
AHP322508RA-R68M	0.68	± 20	1V/1M	0.065	0.078	5.50	3.80
AHP322508RA-1R0M	1.0	± 20	1V/1M	0.085	0.102	5.00	3.30
AHP322508RA-1R5M	1.5	± 20	1V/1M	0.110	0.132	4.50	2.80
AHP322508RA-2R2M	2.2	± 20	1V/1M	0.170	0.204	4.00	2.30
AHP322508RA-3R3M	3.3	± 20	1V/1M	0.250	0.300	3.00	2.00
AHP322508RA-4R7M	4.7	± 20	1V/1M	0.380	0.456	2.80	1.50
AHP322508RA-6R8M	6.8	± 20	1V/1M	0.530	0.636	2.50	1.30
AHP322508RA-100M	10.0	± 20	1V/1M	0.760	0.912	1.80	1.10

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 I rms or Isat.

Measurement board data

I rms

Material : FR4

Board dimensions : 100 X 50 X 1.6t mm

Pattern dimensions: 45 X 30 mm (Double side board)

Pattern thickness : 50 μ m