

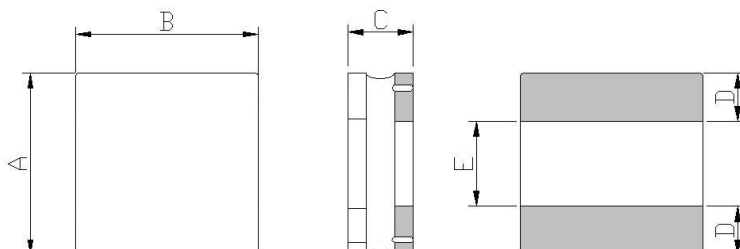
Power Inductor

AHP4008RA-SERISE

1. Features

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

2. Dimension

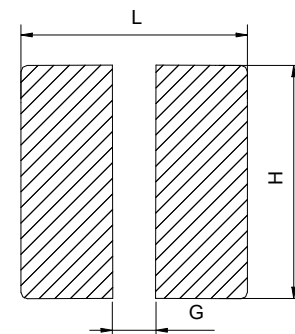


Series	A(mm)	B(mm)	C(mm)	D(mm)	E(mm)
AHP4008RA	4.0±0.2	4.0±0.2	0.7±0.1	1.4±0.25	1.2±0.25

Units: mm



Recommended PC Board Pattern



L(mm)	G(mm)	H(mm)
4.2	1.2	4.2

3. Part Numbering

AHP
4008
RA
-
2R2
M

A: Series

B: Dimension

C: Lead Free

D: Inductance

2R2=2.2uH

E: Inductance Tolerance

M=±20%

4. Specification

TAI-TECH Part Number	Inductance (μ H)	Tolerance (%)	Test Frequency (Hz)	DCR (Ω) typ.	DCR (Ω) Max	I sat (A)	I rms (A)
AHP4008RA-R47M	0.47	$\pm 20\%$	1V100K	0.060	0.072	6.00	3.50
AHP4008RA-R68M	0.68	$\pm 20\%$	1V100K	0.080	0.096	5.00	3.20
AHP4008RA-1R0M	1.0	$\pm 20\%$	1V100K	0.100	0.120	4.00	3.00
AHP4008RA-1R5M	1.5	$\pm 20\%$	1V100K	0.125	0.150	3.50	2.60
AHP4008RA-2R2M	2.2	$\pm 20\%$	1V100K	0.150	0.180	3.00	2.30
AHP4008RA-3R3M	3.3	$\pm 20\%$	1V100K	0.220	0.260	2.70	2.00
AHP4008RA-4R7M	4.7	$\pm 20\%$	1V100K	0.300	0.360	2.50	1.70
AHP4008RA-6R8M	6.8	$\pm 20\%$	1V100K	0.500	0.600	2.30	1.40
AHP4008RA-100M	10	$\pm 20\%$	1V100K	0.700	0.840	2.10	1.20

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.

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 μ m

5. Typical Performance Curves

