

Power Inductor

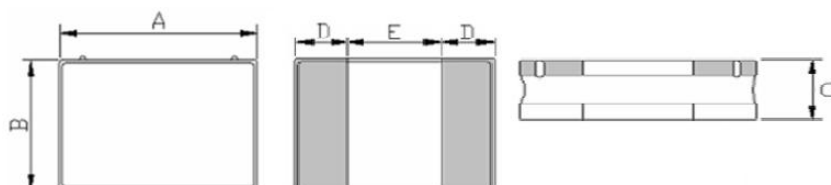
AHP252008RA-SERIES

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)
AHP252008RA	2.5 -0.1/+0.2	2.0 -0.1/+0.2	0.8Max	0.75 ref.	1.00 ref.

Units: mm

3. Part Numbering

AHP
252008
RA
-
1R5
M

A B C D E

A: Series

B: Dimension

C: Lead Free

Material

D: Inductance

1R5=1.5uH

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)
AHP252008RA-R24M	0.24	± 20	1V/1M	0.035	0.042	5.30	4.50 (1) 4.70 (2)
AHP252008RA-R33M	0.33	± 20	1V/1M	0.040	0.055	4.80	3.90 (1) 4.30 (2)
AHP252008RA-R47M	0.47	± 20	1V/1M	0.045	0.060	4.50	3.70 (1) 4.10 (2)
AHP252008RA-R68M	0.68	± 20	1V/1M	0.060	0.075	4.00	3.50 (1) 3.70 (2)
AHP252008RA-1R0M	1.0	± 20	1V/1M	0.070	0.090	3.20	2.80 (1) 3.20 (2)
AHP252008RA-1R5M	1.5	± 20	1V/1M	0.105	0.127	2.80	2.30 (1) 2.50 (2)
AHP252008RA-2R2M	2.2	± 20	1V/1M	0.150	0.180	2.00	1.80 (1) 2.20 (2)
AHP252008RA-3R3M	3.3	± 20	1V/1M	0.220	0.260	1.60	1.60 (1) 1.80 (2)
AHP252008RA-4R7M	4.7	± 20	1V/1M	0.360	0.430	1.50	1.20 (1) 1.30 (2)

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

Irms1

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

Irms2

Material : FR4

Board dimensions : 100 X 50 X 1.6t mm

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

Pattern thickness : 70 μ m

5. Typical Performance Curve

