

Power Inductor

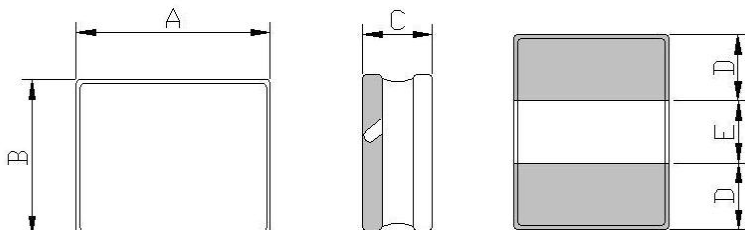
AHP252008FA-SERIES

1. Features

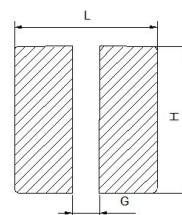
1. This specification applies Low Profile Power Inductors.
2. 100% Lead(Pb) & Halogen-Free and RoHS compliant.
3. Operating temperature -40~+125°C (Including self - temperature rise)



2. Dimension



Recommended Land pattern



Series	A(mm)	B(mm)	C(mm)	D(mm)	E(mm)
AHP252008FA	2.5 -0.1/+0.2	2.0 -0.1/+0.2	0.8Max	0.75 ref.	1.00 ref.

Units: mm

L	G	H
2.9	1.0	2.4

3. Part Numbering

AHP
252008
FA
-
R24
M

A: Series

B: Dimension

C: Lead Free

D: Inductance

E: Inductance Tolerance

Material

R24=0.24uH

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)
AHP252008FA-R24M	0.24	± 20	1V/1M	0.028	0.033	6.00	4.80
AHP252008FA-R33M	0.33	± 20	1V/1M	0.033	0.039	5.50	4.30
AHP252008FA-R47M	0.47	± 20	1V/1M	0.040	0.048	5.00	3.80
AHP252008FA-R68M	0.68	± 20	1V/1M	0.055	0.066	4.80	3.20
AHP252008FA-1R0M	1.0	± 20	1V/1M	0.065	0.078	3.80	2.90
AHP252008FA-1R5M	1.5	± 20	1V/1M	0.090	0.108	3.30	2.60
AHP252008FA-2R2M	2.2	± 20	1V/1M	0.120	0.144	2.50	2.30
AHP252008FA-3R3M	3.3	± 20	1V/1M	0.200	0.240	2.30	2.00
AHP252008FA-4R7M	4.7	± 20	1V/1M	0.260	0.312	1.80	1.70
AHP252008FA-6R8M	6.8	± 20	1V/1M	0.380	0.456	1.50	1.40
AHP252008FA-100M	10.0	± 20	1V/1M	0.570	0.684	1.10	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 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