

Power Inductor

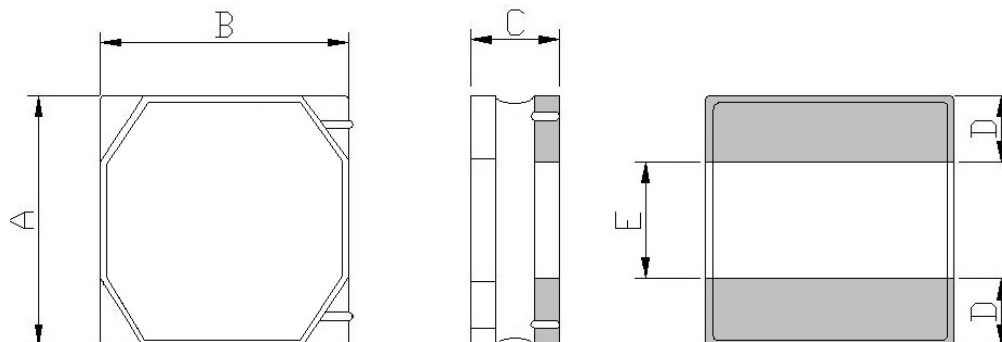
AHP3008RA-SERIES

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)
AHP3008RA	3.0±0.2	3.0±0.2	0.7±0.1	1.0 ref.	1.0 ref.

Units: mm

3. Part Numbering

AHP **3008** **RA** - **6R8** **M**

A B C D E

A: Series

B: Dimension

C: Lead Free

D: Inductance

6R8=6.8uH

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
AHP3008RA-R24M	0.24	±20%	1V100K	0.040	0.048	8.00	7.00	4.50	4.00
AHP3008RA-R33M	0.33	±20%	1V100K	0.050	0.060	7.00	6.00	4.00	3.50
AHP3008RA-R47M	0.47	±20%	1V100K	0.075	0.090	6.00	5.00	3.40	3.00
AHP3008RA-R68M	0.68	±20%	1V100K	0.090	0.108	5.50	4.50	3.10	2.70
AHP3008RA-1R0M	1.0	±20%	1V100K	0.100	0.120	5.00	4.00	2.80	2.50
AHP3008RA-1R5M	1.5	±20%	1V100K	0.120	0.144	4.50	3.50	2.60	2.30
AHP3008RA-2R2M	2.2	±20%	1V100K	0.210	0.252	4.00	3.00	1.95	1.70
AHP3008RA-3R3M	3.3	±20%	1V100K	0.320	0.384	3.00	2.50	1.60	1.40
AHP3008RA-4R7M	4.7	±20%	1V100K	0.430	0.516	2.50	2.00	1.40	1.20
AHP3008RA-6R8M	6.8	±20%	1V100K	0.400	0.460	1.60	1.40	1.30	1.00
AHP3008RA-100M	10.0	±20%	1V100K	0.860	0.980	1.50	1.30	1.00	0.90

Note:

Isat : Based on inductance change ($\Delta L/L0$: $\leq 30\%$) @ ambient temp. 25°C

Irms : Based on temperature rise (ΔT : 40°C) MAX

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