

Power Inductor

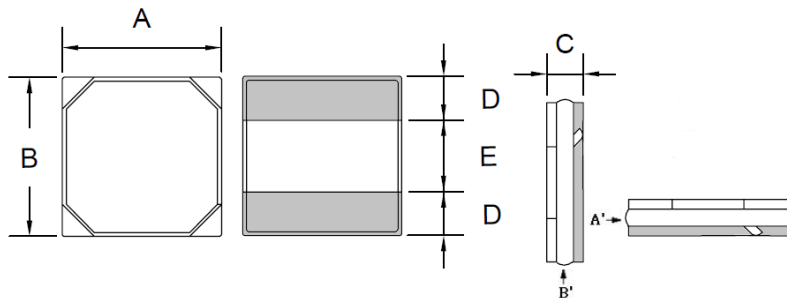
AHP3008FA-SERIES

1. Features

1. This specification applies Low Profile Power Inductors.
2. 100% Lead(Pb) & Halogen-Free and RoHS compliant.
- 3.



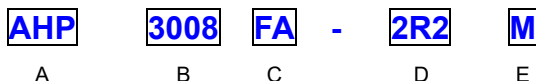
2. Dimension



Series	A(mm)	A'(mm)	B(mm)	B'(mm)	C(mm)	D(mm)	E(mm)
AHP3008FA	3.0±0.2	3.3 Max	3.0±0.2	3.3 Max	0.7±0.1	1.0 ref.	1.0 ref.

Units: mm

3. Part Numbering



- A: Series
- B: Dimension
- C: Lead Free
- D: Inductance 2R2=2.2uH
- E: Inductance Tolerance M=±20%

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
AHP3008FA-R24M	0.24	±20%	1V100K	0.035	0.042	8.00	7.00	5.00	4.50
AHP3008FA-R33M	0.33	±20%	1V100K	0.050	0.060	7.50	6.50	4.30	3.80
AHP3008FA-R47M	0.47	±20%	1V100K	0.055	0.066	6.50	5.50	3.90	3.40
AHP3008FA-R68M	0.68	±20%	1V100K	0.080	0.096	5.50	4.50	3.30	2.80
AHP3008FA-1R0M	1.0	±20%	1V100K	0.095	0.114	4.80	4.00	3.10	2.70
AHP3008FA-1R5M	1.5	±20%	1V100K	0.115	0.138	4.00	3.50	2.90	2.50
AHP3008FA-2R2M	2.2	±20%	1V100K	0.180	0.216	3.50	3.00	2.30	1.90
AHP3008FA-3R3M	3.3	±20%	1V100K	0.280	0.336	3.00	2.50	1.80	1.55
AHP3008FA-4R7M	4.7	±20%	1V100K	0.340	0.408	2.50	2.00	1.55	1.35
AHP3008FA-6R8M	6.8	±20%	1V100K	0.380	0.456	1.60	1.40	1.45	1.25
AHP3008FA-100M	10.0	±20%	1V100K	0.750	0.900	1.50	1.30	1.15	1.10

Note:

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

Irms : Based on temperature rise ($\Delta T : 40^\circ\text{C}$) 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 μm