

# Power Inductor

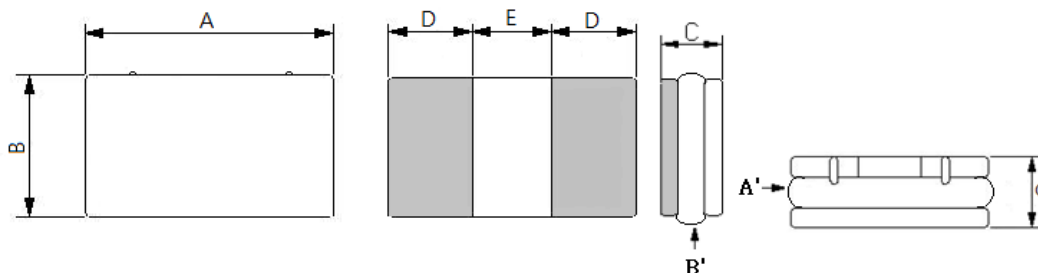
**AHP160808RA-SERIES**

## 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)

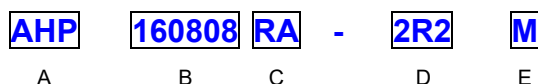


## 2. Dimension



Series	A(mm)	A'(mm)	B(mm)	B'(mm)	C(mm)	D(mm)	E(mm)
AHP160808RA	1.6 ± 0.2	1.9 Max	0.8 ± 0.2	1.1 Max	0.8 Max	0.50 ref.	0.60 ref.

## 3. Part Numbering



A: Series

B: Dimension

C: Lead Free

Material

D: Inductance

2R2=2.2uH

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)
AHP160808RA-R24M	0.24	±20	1V/1M	0.070	0.084	4.00	2.50
AHP160808RA-R33M	0.33	±20	1V/1M	0.090	0.108	3.00	2.20
AHP160808RA-R47M	0.47	±20	1V/1M	0.110	0.132	2.60	1.90
AHP160808RA-R68M	0.68	±20	1V/1M	0.180	0.216	2.00	1.50
AHP160808RA-1R0M	1.0	±20	1V/1M	0.230	0.276	1.80	1.30
AHP160808RA-1R5M	1.5	±20	1V/1M	0.400	0.480	1.50	0.80
AHP160808RA-2R2M	2.2	±20	1V/1M	0.450	0.540	1.00	0.75
AHP160808RA-3R3M	3.3	±20	1V/1M	0.700	0.840	0.90	0.70
AHP160808RA-4R7M	4.7	±20	1V/1M	1.000	1.200	0.80	0.55
AHP160808RA-6R8M	6.8	±20	1V/1M	1.800	2.160	0.65	0.40
AHP160808RA-100M	10.0	±20	1V/1M	2.100	2.520	0.50	0.35

## Note:

Isat : Saturation Current (Isat) will cause L0 to drop approximately 30%.

Irms : Heat Rated Current (Irms) will cause the coil temperature rise approximately  $\Delta t$  of 40°C

## 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  $\mu$ m