

# Power Inductor

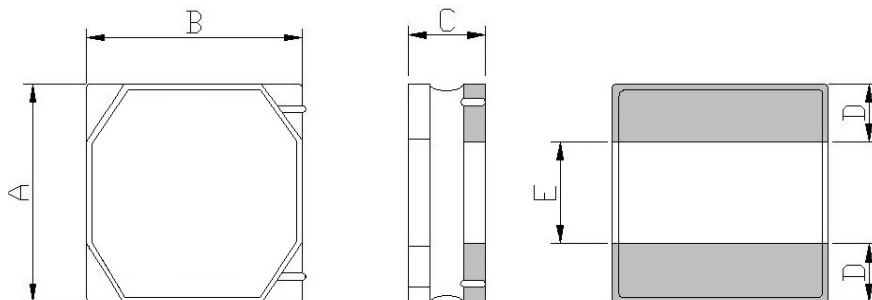
AHP3015RA-Series

## 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)
AHP3015RA	3.0±0.2	3.0±0.2	1.5 max.	1.0 ref.	1.0 ref.

## 3. Part Numbering

**AHP**   **3015**   **RA**   -   **2R2**   **M**

A                      B                      C                      D                      E

- A: Series
- B: Dimension
- C: Lead Free
- 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)
AHP3015RA-R47M	0.47	±20%	1V100K	0.030	0.036	10.00	5.50
AHP3015RA-R68M	0.68	±20%	1V100K	0.035	0.042	9.00	5.00
AHP3015RA-1R0M	1.0	±20%	1V100K	0.040	0.048	6.00	4.50
AHP3015RA-1R5M	1.5	±20%	1V100K	0.055	0.066	4.50	3.50
AHP3015RA-2R2M	2.2	±20%	1V100K	0.068	0.082	4.20	3.00
AHP3015RA-3R3M	3.3	±20%	1V100K	0.120	0.140	4.00	2.50
AHP3015RA-4R7M	4.7	±20%	1V100K	0.160	0.190	3.50	2.30
AHP3015RA-6R8M	6.8	±20%	1V100K	0.210	0.260	2.70	2.00
AHP3015RA-100M	10	±20%	1V100K	0.350	0.420	1.90	1.50

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

### 9. Typical Performance Curve

