

# Power Inductor

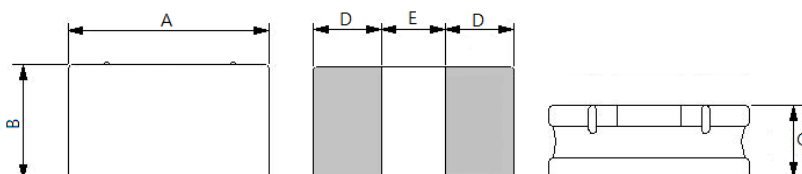
AHP201210RA-SERIES

## 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)

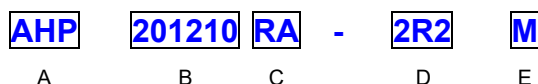


## 2. Dimension



Series	A(mm)	B(mm)	C(mm)	D(mm)	E(mm)
AHP201210RA	2.0±0.2	1.2±0.2	1.0Max	0.50 ref.	1.00 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)
AHP201210RA-R47M	0.47	±20	1V/1M	0.050	0.060	2.80	2.70
AHP201210RA-R68M	0.68	±20	1V/1M	0.060	0.080	2.50	2.40
AHP201210RA-1R0M	1.0	±20	1V/1M	0.090	0.108	1.90	1.80
AHP201210RA-1R5M	1.5	±20	1V/1M	0.130	0.156	1.80	1.60
AHP201210RA-2R2M	2.2	±20	1V/1M	0.190	0.228	1.70	1.50
AHP201210RA-3R3M	3.3	±20	1V/1M	0.290	0.348	1.40	1.30
AHP201210RA-4R7M	4.7	±20	1V/1M	0.340	0.408	1.00	1.10
AHP201210RA-6R8M	6.8	±20	1V/1M	0.540	0.648	0.90	0.95
AHP201210RA-100M	10	±20	1V/1M	0.780	0.936	0.60	0.65
AHP201210RA-220M	22	±20	1V/1M	1.700	2.040	0.45	0.50

Note:

I<sub>sat</sub> : Saturation Current (I<sub>sat</sub>) will cause L0 to drop approximately 30%.

I<sub>rms</sub> : Heat Rated Current (I<sub>rms</sub>) will cause the coil temperature rise approximately ΔT of 40°C

Measurement board data

I<sub>rms</sub>

Material : FR4

Board dimensions : 100 X 50 X 1.6t mm

Pattern dimensions: 45 X 30 mm (Double side board)

Pattern thickness : 50 μm

### 9. Typical Performance Curves

