

# Power Inductor

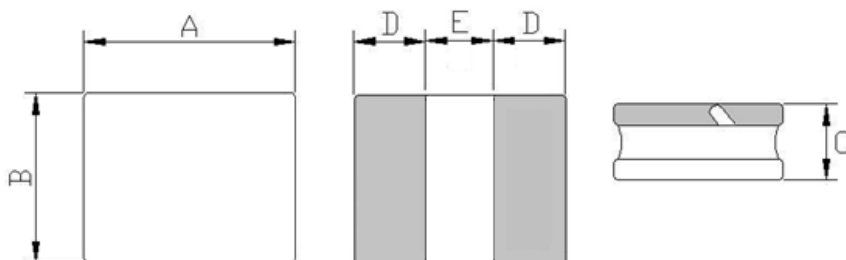
AHP201610NV-SERIES

## 1. Features

1. This specification applies Low Profile Power Inductors.
2. 100% Lead(Pb) & Halogen-Free and RoHS compliant.
3. High reliability -Reliability tests comply with AEC-Q200
4. Operating temperature -55~+125°C (Including self - temperature rise)



## 2. Dimension



Series	A(mm)	B(mm)	C(mm)	D(mm)	E(mm)
AHP201610NV	2.0 -0.1/+0.2	1.6 -0.1/+0.2	1.0Max	0.50 ref.	1.00 ref.

Units: mm

## 3. Part Numbering

AHP
201610
N
V
-
R47
M

A: Series  
 B: Dimension  
 C: Lead Free  
 D: Category Code  
 E: Inductance  
 F: Inductance Tolerance

Material  
 V=Vehicle  
 R47=0.47uH  
 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
AHP201610NV-R47M	0.47	±20	1V/1M	0.032	0.038	5.00	4.00	4.50	4.00
AHP201610NV-R68M	0.68	±20	1V/1M	0.036	0.044	3.30	2.90	3.80	3.40
AHP201610NV-1R0M	1.0	±20	1V/1M	0.058	0.070	3.00	2.50	3.10	2.80
AHP201610NV-1R5M	1.5	±20	1V/1M	0.105	0.125	2.70	2.40	2.30	2.00
AHP201610NV-2R2M	2.2	±20	1V/1M	0.110	0.130	2.10	1.70	2.10	1.90

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

Irms1

Material : FR4

Board dimensions : 100 X 50 X 1.6t mm

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

Pattern thickness : 50  $\mu\text{m}$

