

Power Inductor

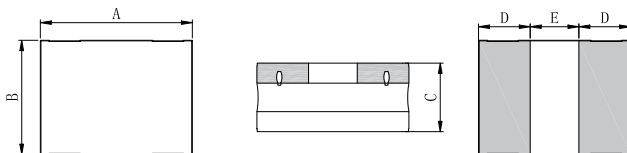
AHP201610RA-SERIES

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)
AHP201610RA	2.00±0.20	1.60±0.20	0.90±0.10	0.65±0.20	0.75±0.20

3. Part Numbering

AHP **201610** **RA** - **R24** **M**

A B C D E

A: Series

B: Dimension

C: Lead Free

Material

D: Inductance

R24=0.24uH

E: Inductance Tolerance

M=±20%

4. Specification

TAI-TECH Part Number	Inductance (uH)	I rms (A)	I sat (A)	DCR (Ω) typ.	DCR (Ω) Max.
AHP201610RA-R24M	0.24	5.60	7.00	0.021	0.0252
AHP201610RA-R33M	0.33	5.10	5.50	0.028	0.0336
AHP201610RA-R47M	0.47	4.50	4.80	0.041	0.0492
AHP201610RA-R68M	0.68	3.80	4.00	0.055	0.066
AHP201610RA-1R0M	1.00	3.10	3.60	0.075	0.090
AHP201610RA-1R5M	1.50	2.40	3.10	0.115	0.138
AHP201610RA-2R2M	2.20	1.90	2.40	0.170	0.204
AHP201610RA-3R3M	3.30	1.50	1.6	0.190	0.218
AHP201610RA-4R7M	4.70	1.30	1.40	0.320	0.384
AHP201610RA-6R8M	6.8	0.95	1.1	0.49	0.58
AHP201610RA-100M	10.0	0.80	1.00	0.68	0.80

Note:

Inductance Test Frequency 1MHz/1V.

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.

Rated DC Current : The less value which is Irms or Isat.

Irms Testing :

Temperature rise is highly dependent on many factors including pcb land pattern · Circuit design, component placement, frequency, cooling system, trace size · and proximity to other components.....etc · There fore temperature rise should be verified in application conditions ·

5. Typical Performance Curves

