

# Power Inductor

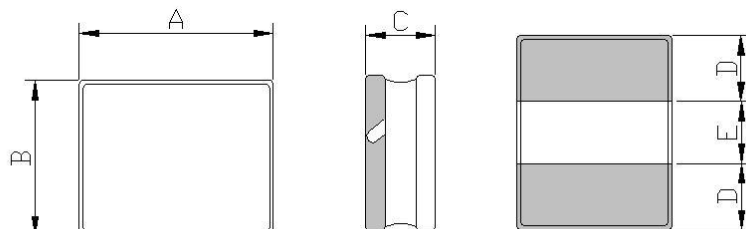
**AHP252010FA-SERIES**

## 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)
AHP252010FA	2.5 -0.1/+0.2	2.0 -0.1/+0.2	1.0Max	0.75 ref.	1.00 ref.

## 3. Part Numbering

**AHP**   **252010**   **FA**   -   **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)	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
AHP252010FA-R24M	0.24	±20	1V/1M	0.018	0.022	9.50	8.00	5.50 (1) 6.00 (2)	5.00 (1) 5.50 (2)
AHP252010FA-R33M	0.33	±20	1V/1M	0.023	0.028	8.00	6.50	5.30 (1) 5.60 (2)	4.80 (1) 5.10 (2)
AHP252010FA-R47M	0.47	±20	1V/1M	0.027	0.035	7.00	5.90	4.60 (1) 5.30 (2)	4.20 (1) 4.80 (2)
AHP252010FA-R68M	0.68	±20	1V/1M	0.032	0.040	5.50	4.60	4.20 (1) 4.40 (2)	3.80 (1) 4.00 (2)
AHP252010FA-1R0M	1.00	±20	1V/1M	0.044	0.053	4.90	4.30	3.50 (1) 3.70 (2)	3.10 (1) 3.40 (2)
AHP252010FA-1R5M	1.50	±20	1V/1M	0.062	0.074	3.80	3.10	3.20 (1) 3.40 (2)	2.80 (1) 3.00 (2)
AHP252010FA-2R2M	2.20	±20	1V/1M	0.078	0.093	2.80	2.30	2.60 (1) 2.80 (2)	2.30 (1) 2.50 (2)
AHP252010FA-4R7M	4.70	±20	1V/1M	0.180	0.216	1.70	1.40	1.70 (1) 1.80 (2)	1.50 (1) 1.60 (2)

### 9. Typical Performance Curves

