

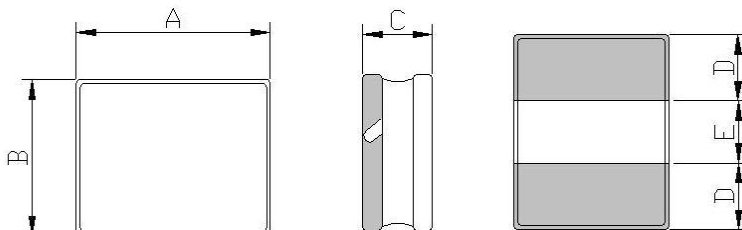
Power Inductor AHP252010FA-SERIES

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).



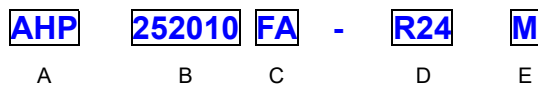
2. Dimension



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.

Units: mm

3. Part Numbering



- 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)	I rms (A)
AHP252010FA-R24M	0.24	± 20	1V/1M	0.018	0.022	9.50	5.50 (1) 6.00 (2)
AHP252010FA-R33M	0.33	± 20	1V/1M	0.023	0.028	8.00	5.30 (1) 5.60 (2)
AHP252010FA-R47M	0.47	± 20	1V/1M	0.027	0.035	7.00	4.60 (1) 5.30 (2)
AHP252010FA-R68M	0.68	± 20	1V/1M	0.032	0.040	5.50	4.20 (1) 4.40 (2)
AHP252010FA-1R0M	1.0	± 20	1V/1M	0.044	0.053	4.90	3.50 (1) 3.70 (2)
AHP252010FA-1R5M	1.5	± 20	1V/1M	0.062	0.074	3.80	3.20 (1) 3.40 (2)
AHP252010FA-2R2M	2.2	± 20	1V/1M	0.078	0.093	2.80	2.60 (1) 2.80 (2)
AHP252010FA-3R3M	3.3	± 20	1V/1M	0.125	0.150	2.10	2.00 (1) 2.20 (2)
AHP252010FA-4R7M	4.7	± 20	1V/1M	0.180	0.216	1.70	1.70 (1) 1.80 (2)

Note:

I_{sat} : Saturation Current (I_{sat}) will cause L₀ to drop approximately 30%.

I_{rms} : Heat Rated Current (I_{rms}) will cause the coil temperature rise approximately ΔT of 40°C.

Rated DC Current : The less value which is I_{rms} or I_{sat}.

Measurement board data

I_{rms1}

Material : FR4

Board dimensions : 100 X 50 X 1.6t mm

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

Pattern thickness : 50 μ m

I_{rms2}

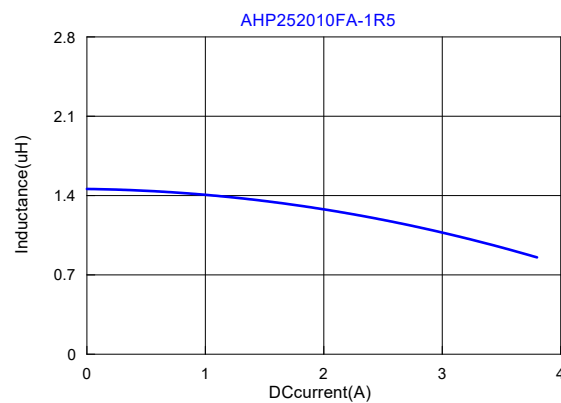
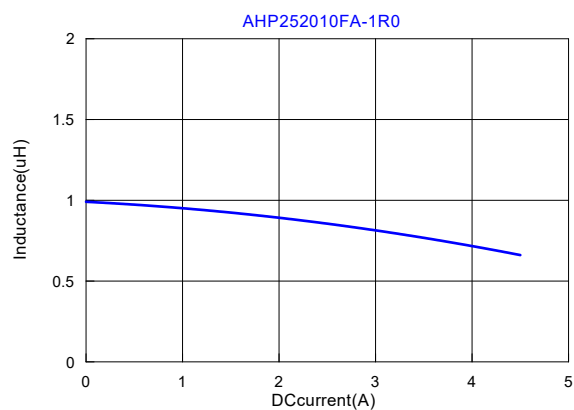
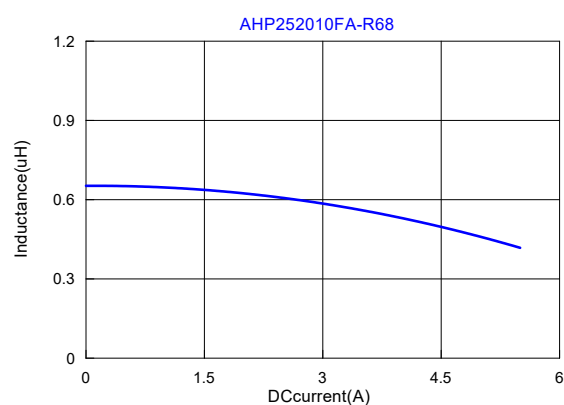
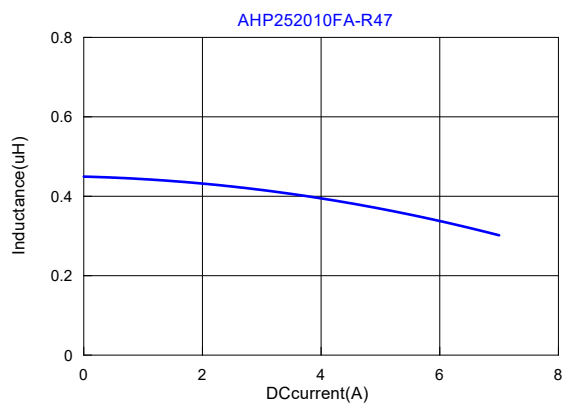
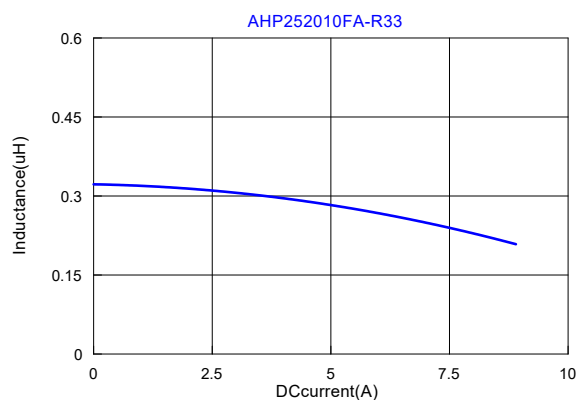
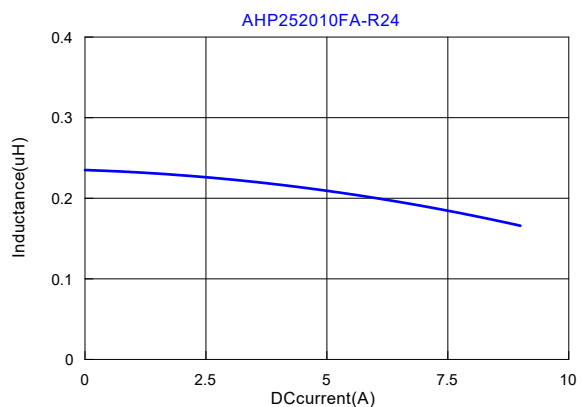
Material : FR4

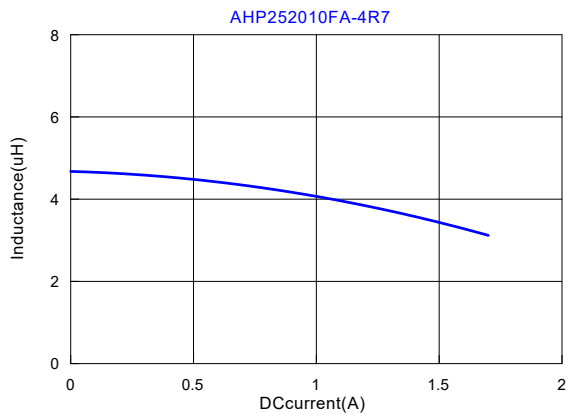
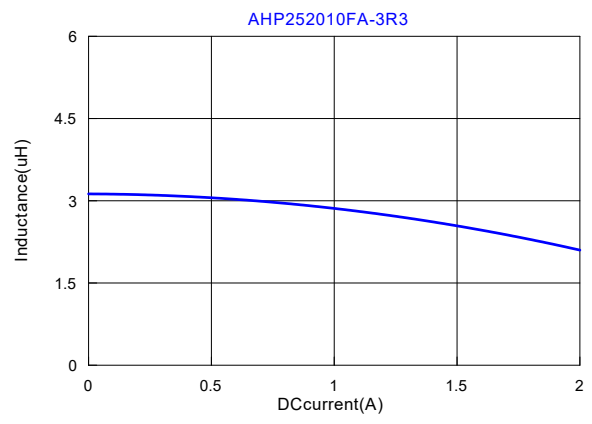
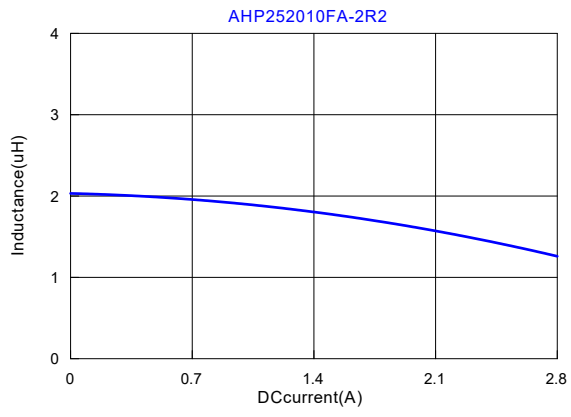
Board dimensions : 100 X 50 X 1.6t mm

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

Pattern thickness : 70 μ m

5. Typical Performance Curves





单击下面可查看定价，库存，交付和生命周期等信息

[>>TAI-TECH\(台庆\)](#)