

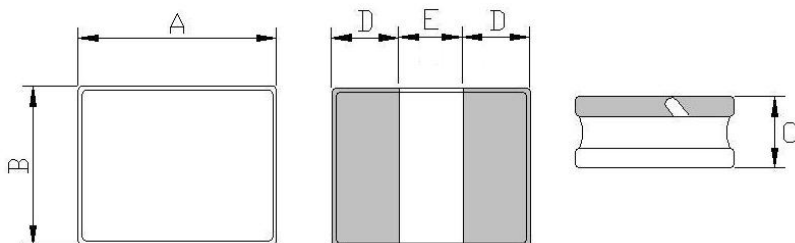
Power Inductor **AHP201608FA-SERIES**

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).



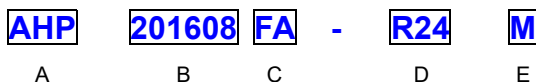
2. Dimension



Series	A(mm)	B(mm)	C(mm)	D(mm)	E(mm)
AHP201608FA	2.0 -0.1/+0.2	1.6 -0.1/+0.2	0.8Max	0.50 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)
AHP201608FA-R24M	0.24	±20	1V/1M	0.030	0.036	6.50	4.50
AHP201608FA-R33M	0.33	±20	1V/1M	0.035	0.042	5.50	4.00
AHP201608FA-R47M	0.47	±20	1V/1M	0.045	0.054	4.50	3.50
AHP201608FA-R68M	0.68	±20	1V/1M	0.060	0.072	3.80	3.00
AHP201608FA-1R0M	1.0	±20	1V/1M	0.076	0.087	3.30	2.80
AHP201608FA-1R5M	1.5	±20	1V/1M	0.100	0.115	2.50	2.40
AHP201608FA-2R2M	2.2	±20	1V/1M	0.150	0.180	2.30	2.00
AHP201608FA-3R3M	3.3	±20	1V/1M	0.250	0.300	1.80	1.50
AHP201608FA-4R7M	4.7	±20	1V/1M	0.340	0.408	1.40	1.30
AHP201608FA-6R8M	6.8	±20	1V/1M	0.500	0.600	1.30	1.00

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 μm