

Inductor For Power Line

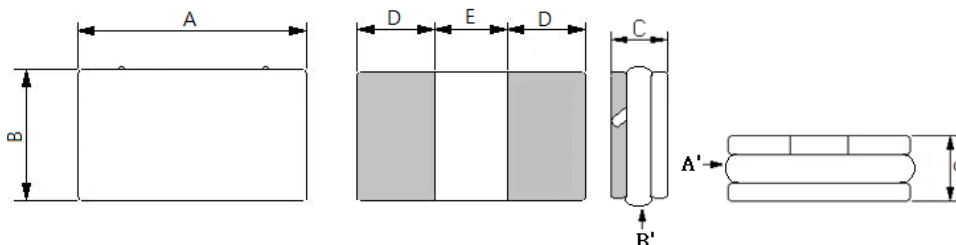
AHP160808FA-SERIES

1. Features

1. This specification applies Low Profile and Low DCR .
2. It can be applied to the Bluetooth device and other electronic equipment.
3. 100% Lead(Pb) & Halogen-Free and RoHS compliant.
4. Operating temperature -40~+125°C (Including self - temperature rise)



2. Dimension



Series	A(mm)	A'(mm)	B(mm)	B'(mm)	C(mm)	D(mm)	E(mm)
AHP160808FA	1.6 ± 0.2	1.9 Max	0.8 ± 0.2	1.1 Max	0.8Max	0.50 ref.	0.60 ref.

3. Part Numbering

AHP
160808
FA
-
R47
M

A: Series
 B: Dimension
 C: Lead Free Ferrite
 D: Inductance R47=0.47uH
 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)
AHP160808FA-R24M	0.24	±20	1V/1M	0.075	0.090	4.50	2.00
AHP160808FA-R33M	0.33	±20	1V/1M	0.090	0.108	4.00	1.60
AHP160808FA-R47M	0.47	±20	1V/1M	0.100	0.120	3.50	1.30
AHP160808FA-R56M	0.56	±20	1V/1M	0.110	0.132	3.00	1.10

Note:

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

Measurement board data

Irms

Material : FR4

Board dimensions : 100 X 50 X 1.6t mm

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

Pattern thickness : 50 μm