

Power Inductor

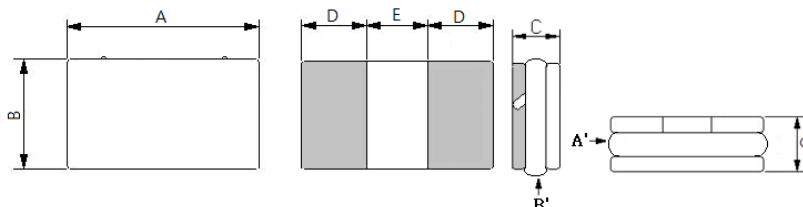
AHP201208FA-SERIES

1. Features

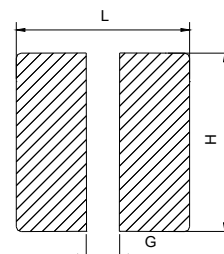
1. This specification applies Low Profile Power Inductors.
2. 100% Lead(Pb) & Halogen-Free and RoHS compliant.
3. Operating temperature -40~+125°C (Including self - temperature rise)



2. Dimension



Recommended PC Board Pattern

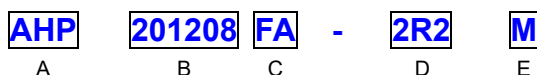


Series	A(mm)	A'(mm)	B(mm)	B'(mm)	C(mm)	D(mm)	E(mm)
AHP201208FA	2.0±0.2	2.3 Max	1.2±0.2	1.5 Max	0.80Max	0.50 ref	1.00 ref

Units: mm

L(mm)	G(mm)	H(mm)
2.40	0.60	1.44

3. Part Numbering



A: Series

B: Dimension

C: Lead Free

Material

D: Inductance

2R2=2.20uH

E: Inductance Tolerance

K=± 10%, L=± 15%, M=± 20%, Y=± 30%.

4. Specification

Part Number	Inductance (uH)±20% @ 0 A	Test Frequency (Hz)	I rms (A)		I sat (A)		DCR (Ω)	
			Typ	Max	Typ	Max	Typ	Max
AHP201208FA-R24M	0.24	1V/1M	4.70	4.20	4.50	4.00	0.028	0.033
AHP201208FA-R33M	0.33	1V/1M	4.30	3.80	3.50	3.00	0.036	0.043
AHP201208FA-R47M	0.47	1V/1M	4.00	3.50	3.30	2.80	0.045	0.054
AHP201208FA-R68M	0.68	1V/1M	3.30	2.80	3.10	2.60	0.065	0.078
AHP201208FA-1R0M	1.00	1V/1M	2.30	2.10	2.50	2.00	0.100	0.120
AHP201208FA-1R5M	1.50	1V/1M	2.00	1.70	2.20	1.90	0.150	0.180
AHP201208FA-2R2M	2.20	1V/1M	1.60	1.40	1.90	1.60	0.210	0.250
AHP201208FA-3R3M	3.30	1V/1M	1.50	1.30	1.20	1.00	0.240	0.288

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

Rated DC current: The lower value of Irms and Isat.

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

10. Typical Performance Curves

