

Power Inductor

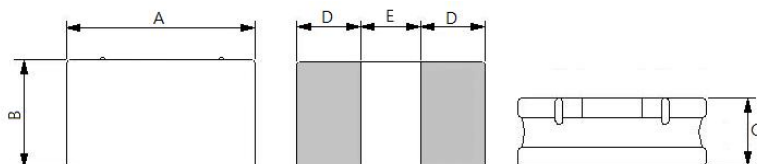
AHP201208RA-SERIES

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)



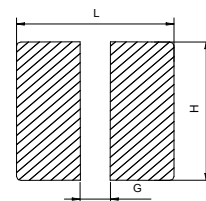
2. Dimension



A	B	C	D	E
2.0±0.2	1.2±0.2	0.80Max	0.50 ref	1.00 ref

Unit:mm

Recommended PC Board Pattern



L	G	H
2.40	0.60	1.44

3. Part Numbering

AHP
201208
RA
-
2R2
M

A: Series

B: Dimension

C: Lead Free

D: Inductance

E: Inductance Tolerance

Material

2R2=2.2uH

K=± 10%, L=± 15%, M=± 20%, Y=± 30%.

4. Specification

Part Number	Inductance (μH) $\pm 20\%$ @ 0 A DC	Test Frequency (Hz)	I rms (A)		I sat (A)		DCR (Ω)	
			Typ	Max	Typ	Max	Typ	Max
AHP201208RA-R24M	0.24	1V/1M	3.50	3.00	4.50	3.50	0.036	0.043
AHP201208RA-R47M	0.47	1V/1M	2.50	2.00	3.50	2.50	0.060	0.072
AHP201208RA-R68M	0.68	1V/1M	1.80	1.50	3.00	2.00	0.130	0.156
AHP201208RA-1R0M	1.00	1V/1M	1.70	1.40	2.50	1.70	0.170	0.204
AHP201208RA-1R5M	1.50	1V/1M	1.30	1.10	2.20	1.50	0.260	0.312
AHP201208RA-2R2M	2.20	1V/1M	1.00	0.90	1.50	1.20	0.400	0.480
AHP201208RA-3R3M	3.30	1V/1M	0.90	0.80	1.20	1.00	0.480	0.576
AHP201208RA-4R7M	4.70	1V/1M	0.70	0.60	1.10	0.90	0.800	0.960
AHP201208RA-6R8M	6.80	1V/1M	0.60	0.50	0.90	0.80	1.200	1.440
AHP201208RA-100M	10.0	1V/1M	0.45	0.40	0.70	0.60	1.800	2.160

Note:

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

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

Rated DC current: The lower value of I_{rms} and I_{sat}.

Measurement board data

I_{rms}

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

