

Power Inductor

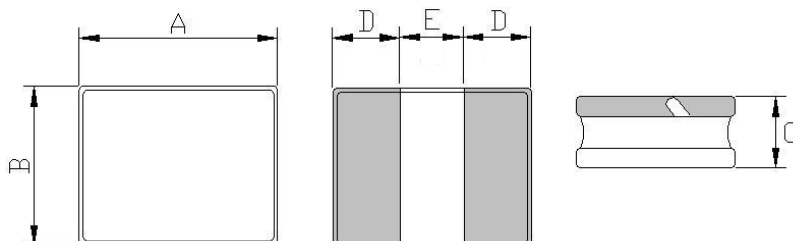
AHP201608FA-SERIES

1. Features

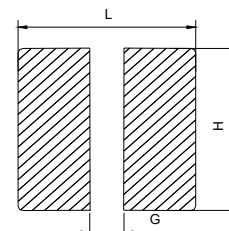
1. This specification applies Low Profile Power Inductors.
2. 100% Lead(Pb) & Halogen-Free and RoHS compliant.
3. Operating temperature -40~+125℃ (Including self - temperature rise)



2. Dimension



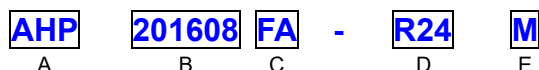
Recommended Land pattern



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

L(mm)	G(mm)	H(mm)
2.3	0.8	1.9

3. Part Numbering



A: Series

B: Dimension

C: Lead Free

D: Inductance

E: Inductance Tolerance

Material

R24=0.24uH

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
AHP201608FA-R24M	0.24	1V/1M	4.50	4.00	6.50	5.00	0.030	0.036
AHP201608FA-R33M	0.33	1V/1M	4.00	3.50	5.50	4.50	0.035	0.042
AHP201608FA-R47M	0.47	1V/1M	3.50	3.20	4.50	3.50	0.045	0.054
AHP201608FA-R68M	0.68	1V/1M	3.00	2.70	3.80	3.30	0.060	0.072
AHP201608FA-1R0M	1.00	1V/1M	2.80	2.50	3.30	2.80	0.076	0.087
AHP201608FA-1R5M	1.50	1V/1M	2.40	2.10	2.50	2.20	0.100	0.115
AHP201608FA-2R2M	2.20	1V/1M	2.00	1.70	2.30	2.00	0.150	0.180
AHP201608FA-3R3M	3.30	1V/1M	1.50	1.30	1.80	1.50	0.250	0.300
AHP201608FA-4R7M	4.70	1V/1M	1.30	1.10	1.40	1.10	0.340	0.408
AHP201608FA-6R8M	6.80	1V/1M	1.00	0.90	1.30	1.00	0.500	0.600

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℃

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

Measurement board data

Irms1

Material: FR4

Board dimensions: 100 X 50 X 1.6t mm

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

Pattern thickness: 50 μm

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10. Typical Performance Curves

