

Power Inductor

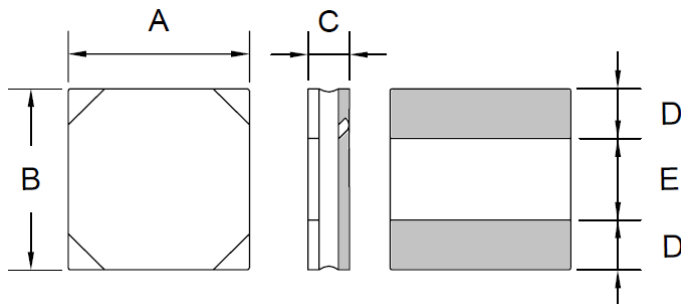
AHP4012HF-SERIES

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)

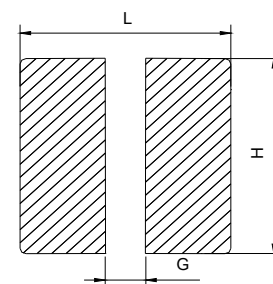


2. Dimension



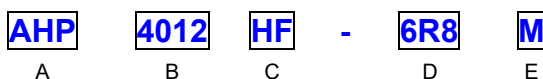
Series	A(mm)	B(mm)	C(mm)	D(mm)	E(mm)
AHP4012HF	4.0±0.2	4.0±0.2	1.2 max.	1.4±0.25	1.2±0.25

Recommended Land pattern



L(mm)	G(mm)	H(mm)
4.2	1.2	4.2

3. Part Numbering



A: Series

B: Dimension

C: Lead Free

D: Inductance

6R8=6.80uH

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
AHP4012HF-R47M	0.47	1V100K	6.00	5.00	10.00	8.00	0.028	0.033
AHP4012HF-R68M	0.68	1V100K	5.00	4.00	8.00	7.00	0.036	0.043
AHP4012HF-1R0M	1.00	1V100K	3.80	3.50	6.50	5.50	0.040	0.050
AHP4012HF-1R5M	1.50	1V100K	3.70	3.30	5.60	4.70	0.050	0.060
AHP4012HF-2R2M	2.20	1V100K	3.40	3.00	4.50	4.00	0.065	0.078
AHP4012HF-3R3M	3.30	1V100K	2.80	2.50	4.00	3.30	0.100	0.120
AHP4012HF-4R7M	4.70	1V100K	2.30	2.00	3.00	2.70	0.125	0.145
AHP4012HF-6R8M	6.80	1V100K	2.10	1.80	2.20	1.90	0.150	0.180
AHP4012HF-100M	10.0	1V100K	1.60	1.40	2.00	1.70	0.280	0.330

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.

10. Typical Performance Curves

