

Power Inductor

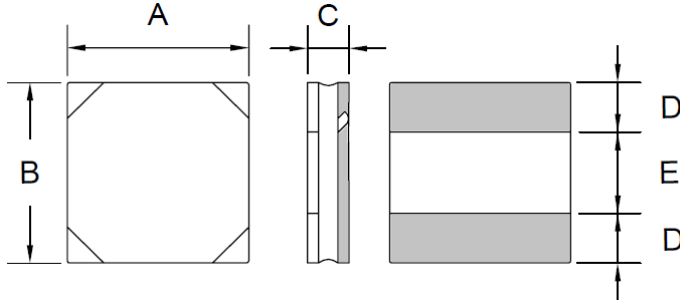
AHP4012HF-SERISE

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

3. Part Numbering

AHP **4012** **HF** - **100** **M**

A: Series

B: Dimension

C: Lead Free

D: Inductance

100=10.0uH

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)typ.	I sat (A)Max.	I rms (A)typ.	I rms (A)Max.
AHP4012HF-R47M	0.47	±20%	1V100K	0.028	0.033	10.00	8.00	6.00	5.00
AHP4012HF-R68M	0.68	±20%	1V100K	0.036	0.043	8.00	7.00	5.00	4.00
AHP4012HF-1R0M	1.0	±20%	1V100K	0.040	0.050	6.50	5.50	3.80	3.50
AHP4012HF-1R5M	1.5	±20%	1V100K	0.050	0.060	5.60	4.70	3.70	3.30
AHP4012HF-2R2M	2.2	±20%	1V100K	0.065	0.078	4.50	4.00	3.40	3.00
AHP4012HF-3R3M	3.3	±20%	1V100K	0.100	0.120	4.00	3.30	2.80	2.50
AHP4012HF-4R7M	4.7	±20%	1V100K	0.125	0.145	3.00	2.70	2.30	2.00
AHP4012HF-6R8M	6.8	±20%	1V100K	0.150	0.180	2.20	1.90	2.10	1.80
AHP4012HF-100M	10.0	±20%	1V100K	0.280	0.330	2.00	1.70	1.60	1.40

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

9. Typical Performance Curves

