

Power Inductor

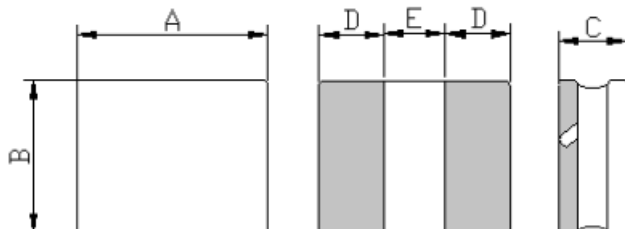
AHP322512FA-SERIES

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)



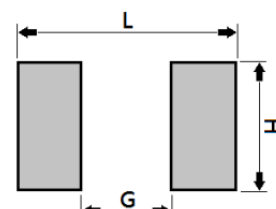
2. Dimension



A	B	C	D	E
3.2±0.2	2.5±0.2	1.2 Max	0.95 ref	1.30 ref

Unit:mm

Recommended PC Board Pattern



L	G	H
3.6	1.2	2.8

3. Part Numbering

AHP	322512	FA	-	1R0	M
A	B	C		D	E

- A: Series
 B: Dimension
 C: Lead Free
 D: Inductance
 E: Inductance Tolerance
- Material
 1R0=1.00uH
 K=±10%, L=±15%, M=±20%, Y=±30%.

4. Specification

Part Number	Inductance (uH)±20% @ 0 A DC	Test Frequency (Hz)	DCR (Ω)		I sat (A)		I rms (A)	
			Typ	Max	Typ	Max	Typ	Max
AHP322512FA-R47M	0.47	1V/1M	0.019	0.025	8.00	7.00	5.40	4.80
AHP322512FA-R68M	0.68	1V/1M	0.026	0.032	7.20	6.20	4.90	4.40
AHP322512FA-1R0M	1.00	1V/1M	0.032	0.038	6.00	5.00	4.30	3.80
AHP322512FA-1R5M	1.50	1V/1M	0.042	0.052	4.80	4.20	3.50	3.00
AHP322512FA-2R2M	2.20	1V/1M	0.060	0.072	4.30	3.80	3.10	2.80
AHP322512FA-3R3M	3.30	1V/1M	0.100	0.120	2.80	2.30	2.40	2.10
AHP322512FA-4R7M	4.70	1V/1M	0.135	0.163	2.30	2.00	2.10	1.80
AHP322512FA-6R8M	6.80	1V/1M	0.190	0.228	2.10	1.80	1.80	1.50
AHP322512FA-100M	10.0	1V/1M	0.300	0.360	1.80	1.50	1.50	1.20

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.

10. Typical Performance Curves

