

Power Inductor

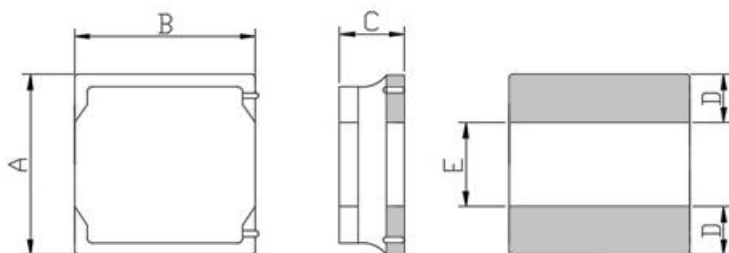
AHP3015RA-SERIES

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)



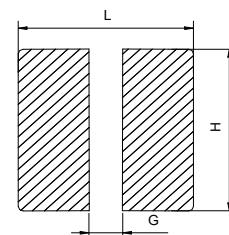
2. Dimension



A	B	C	D	E
3.0±0.2	3.0±0.2	1.5 max	1.0 ref	1.0 ref

Unit:mm

Recommended Land pattern



L	G	H
3.2	1.0	3.2

3. Part Numbering

AHP **3015** **RA** - **2R2** **M**

A B C D E

A: Series

B: Dimension

C: Lead Free

D: Inductance

2R2=2.20uH

E: Inductance Tolerance

K=± 10%, L=± 15%, M=± 20%, Y=± 30%.

4. Specification

Part Number	Inductance (uH) ±20% @ 0 A DC	Test Frequency (Hz)	I rms (A)		I sat (A)		DCR (Ω)	
			Typ	Max	Typ	Max	Typ	Max
AHP3015RA-R47M	0.47	1V100K	5.50	4.50	10.00	8.00	0.030	0.036
AHP3015RA-R68M	0.68	1V100K	5.00	4.00	9.00	7.00	0.035	0.042
AHP3015RA-1R0M	1.00	1V100K	4.50	3.50	6.00	5.00	0.040	0.048
AHP3015RA-1R5M	1.50	1V100K	3.50	3.00	4.50	4.00	0.055	0.066
AHP3015RA-2R2M	2.20	1V100K	3.00	2.50	4.20	3.70	0.068	0.082
AHP3015RA-3R3M	3.30	1V100K	2.50	2.00	4.00	3.50	0.120	0.140
AHP3015RA-4R7M	4.70	1V100K	2.30	1.80	3.50	3.00	0.160	0.190
AHP3015RA-6R8M	6.80	1V100K	2.00	1.50	2.70	2.20	0.210	0.260
AHP3015RA-100M	10.0	1V100K	1.50	1.20	1.90	1.60	0.350	0.420

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 Curve

