

Power Inductor

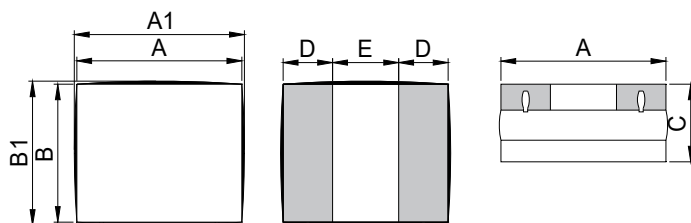
AHP201608RA-SERIES

1. Features

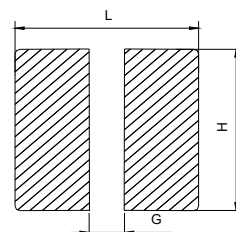
1. This specification applies Low Profile Power Inductors.
2. 100% Lead(Pb) & Halogen-Free and RoHS compliant.
3. Operating temperature : -40~+125°C (Including self - temperature rise)



2. Dimension



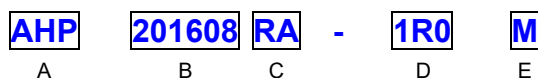
Recommended Land pattern



Series	A(mm)	A1(mm)	B(mm)	B1(mm)	C(mm)	D(mm)	E(mm)
AHP201608RA	2.0 -0.1/+0.2	2.3Max	1.6 -0.1/+0.2	1.90Max	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 Material
 D: Inductance 1R0=1.0uH
 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
AHP201608RA-R24M	0.24	1V/1M	4.00	3.50	7.00	6.00	0.040	0.048
AHP201608RA-R33M	0.33	1V/1M	3.50	3.00	6.00	5.00	0.055	0.065
AHP201608RA-R47M	0.47	1V/1M	3.00	2.70	5.00	4.00	0.070	0.084
AHP201608RA-R68M	0.68	1V/1M	2.80	2.50	4.00	3.00	0.085	0.100
AHP201608RA-1R0M	1.0	1V/1M	2.20	1.80	3.00	2.50	0.110	0.130
AHP201608RA-1R5M	1.5	1V/1M	2.00	1.70	2.80	2.30	0.160	0.190
AHP201608RA-2R2M	2.2	1V/1M	1.80	1.40	2.50	2.00	0.220	0.260
AHP201608RA-3R3M	3.3	1V/1M	1.20	1.10	1.80	1.50	0.380	0.450
AHP201608RA-4R7M	4.7	1V/1M	1.10	1.00	1.70	1.40	0.550	0.660
AHP201608RA-6R8M	6.8	1V/1M	0.85	0.75	1.30	1.10	0.780	0.940
AHP201608RA-100M	10	1V/1M	0.80	0.70	0.90	0.80	0.800	0.960

Note:

- Heat Rated Current (Irms) will cause the coil temperature rise approximately ΔT of 40°C
 Saturation Current (Isat) will cause L0 to drop approximately 30%.
 Rated DC current: The lower value of Irms and Isat.

10. Typical Performance Curves

