

Power Inductor

HPC201612BMV-SERIES

1、 Features

1. This specification applies Low Profile Power Inductors.
2. 100% Lead(Pb) & Halogen-Free and RoHS compliant.
3. High reliability -Reliability tests comply to AEC-Q200.



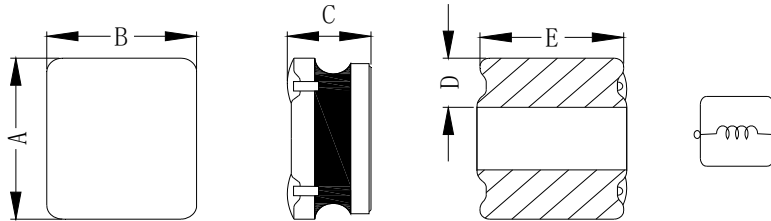
AEC-Q200



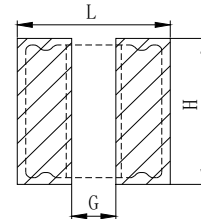
2、 Applications

Automotive applications.

3、 Dimension



Recommended Land pattern



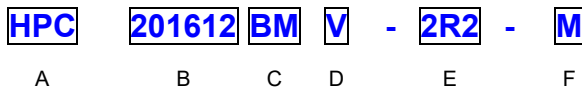
Series	*A(mm)	*B(mm)	*C(mm)	D(mm)	E(mm)
HPC201612BMV	2.0±0.2	1.6±0.2	1.0±0.2	0.7±0.3	1.6±0.2

*Dimensions are not including the termination. For maximum overall dimensions with termination , add 0.1mm.

L(mm)	G(mm)	H(mm)
2.5	0.5	2.1

Note: 1. The above PCB layout reference only.
2. Recommend solder paste thickness at 0.10mm and above.

4、 Part Numbering



- A: Series
- B: Dimension
- C: Lead Free
- D: Code V=Vehicle
- E: Inductance 2R2=2.2uH
- F: Inductance Tolerance K=±10%, L=±15%,M=±20%,Y=±30%.

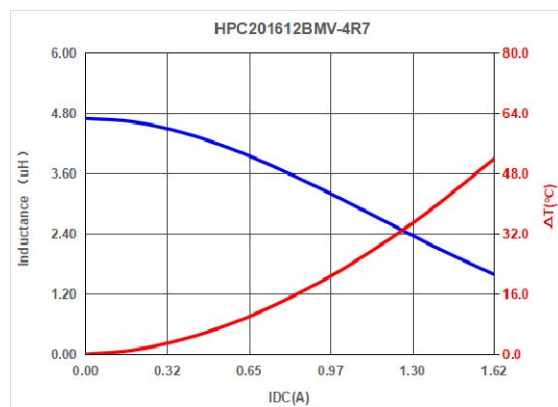
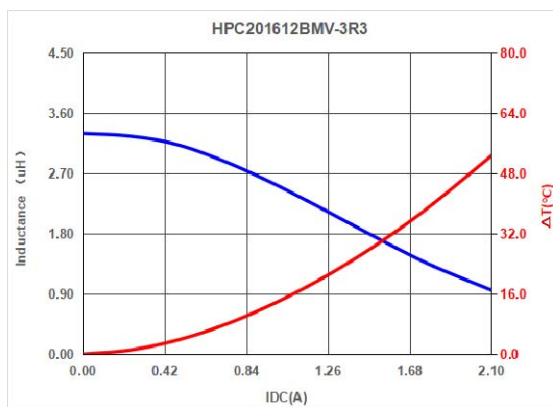
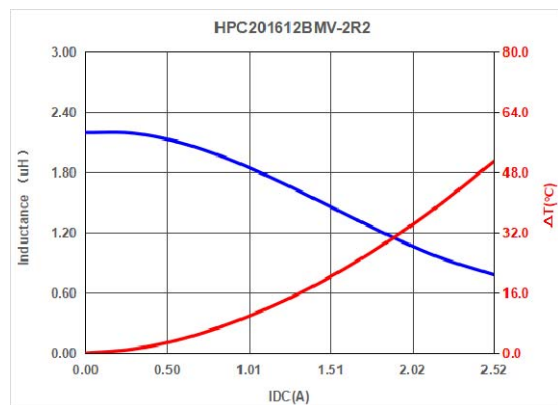
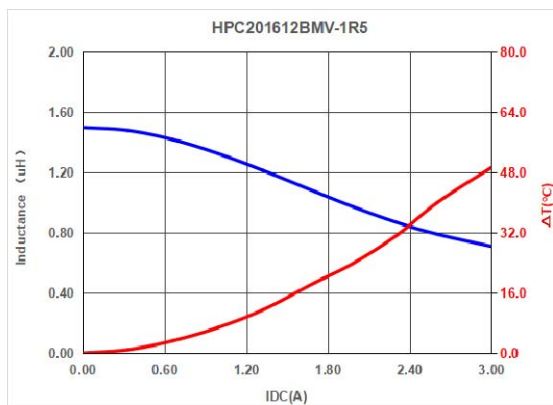
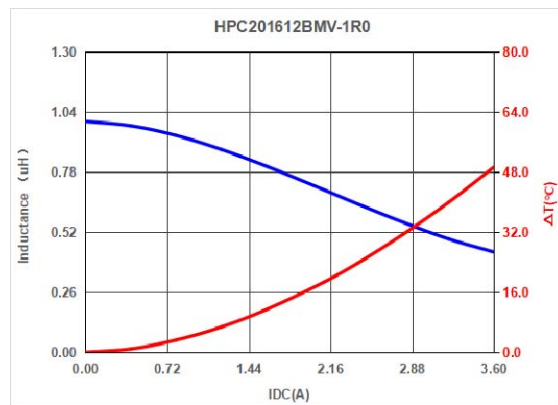
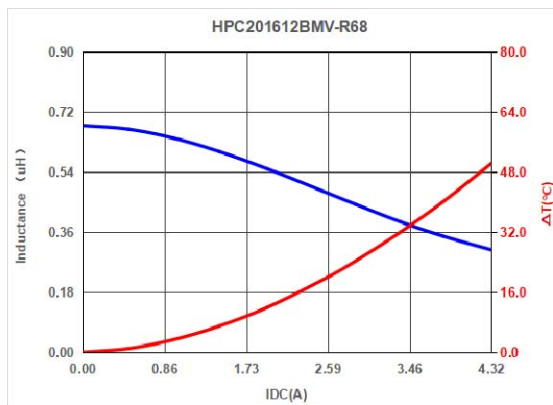
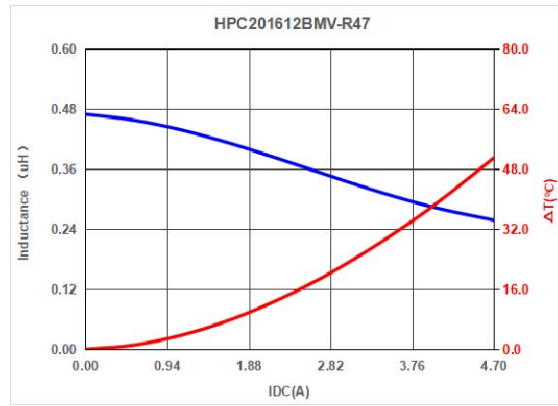
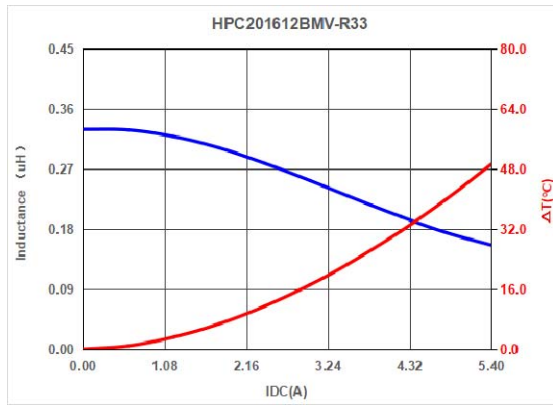
5、Specification

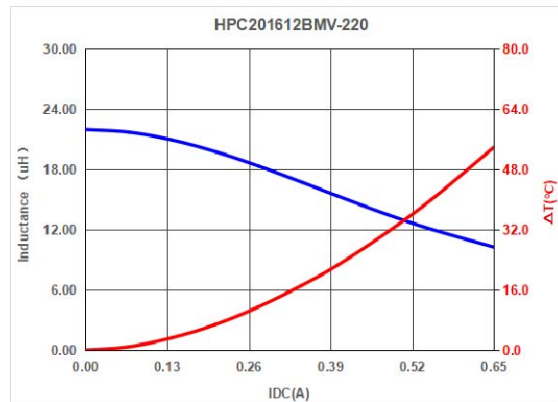
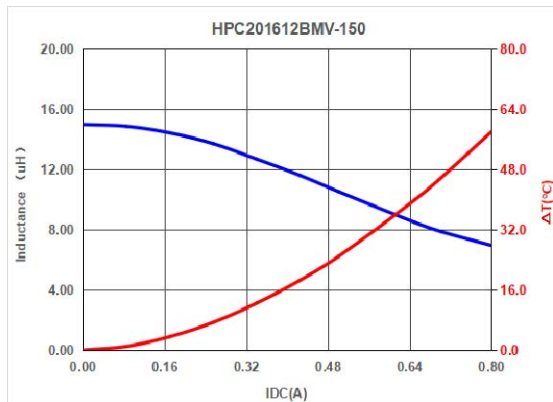
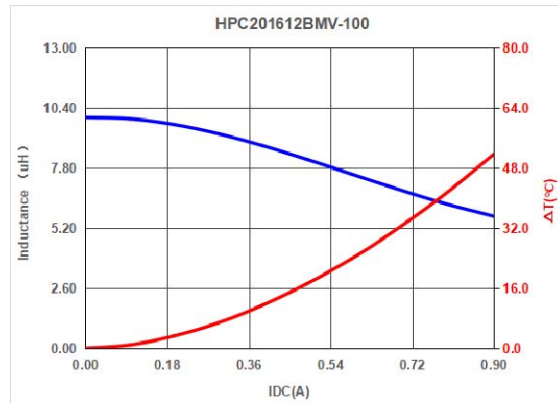
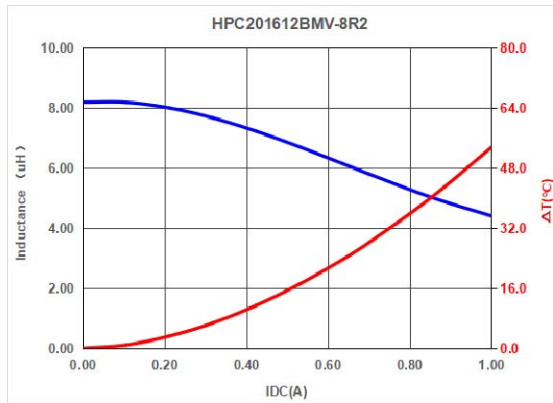
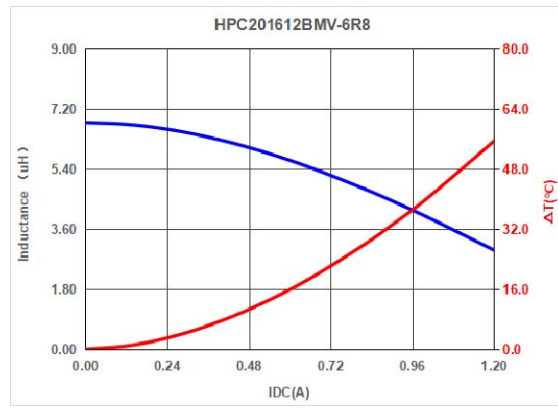
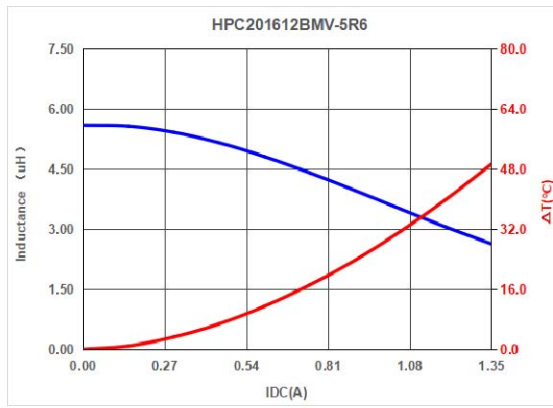
TAI-TECH Part Number	Inductance L0 A(uH)	I rms (A)		I sat (A)		DCR (mΩ)	
		Typ	max	typ	max	typ	max
HPC201612BMV-R33M	0.33	4.80	4.30	3.50	3.20	25	30
HPC201612BMV-R47M	0.47	4.20	3.90	3.10	2.90	35	42
HPC201612BMV-R68M	0.68	3.80	3.50	2.60	2.40	45	54
HPC201612BMV-1R0M	1.00	3.20	2.90	2.10	1.90	60	72
HPC201612BMV-1R5M	1.50	2.60	2.20	1.70	1.50	90	108
HPC201612BMV-2R2M	2.20	2.20	2.00	1.40	1.20	130	156
HPC201612BMV-3R3M	3.30	1.80	1.50	1.15	1.00	190	228
HPC201612BMV-4R7M	4.70	1.40	1.20	0.95	0.85	350	420
HPC201612BMV-5R6M	5.60	1.20	1.00	0.90	0.80	365	438
HPC201612BMV-6R8M	6.80	1.00	0.90	0.82	0.76	460	552
HPC201612BMV-8R2M	8.20	0.85	0.75	0.70	0.65	610	732
HPC201612BMV-100M	10.0	0.78	0.70	0.65	0.60	650	780
HPC201612BMV-150M	15.0	0.65	0.60	0.50	0.45	1050	1260
HPC201612BMV-220M	22.0	0.55	0.50	0.40	0.38	1650	1980

Note:

1. Test frequency : Ls : 100KHz /1.0V.
2. All test data referenced to 25°C ambient.
3. Testing Instrument(or equ) : Agilent 4284A,E4991A,4339B,KEYSIGHT E4980A/AL,chroma3302,3250,16502.
4. Heat Rated Current (I rms) will cause the coil temperature rise approximately Δ T of 40°C
5. Saturation Current (Isat) will cause L0 to drop approximately 30%.
6. The part temperature (ambient + temp rise) should not exceed 125°C under worst case operating conditions.Circuit design,component,PCB trace size and thickness,airflow and other cooling provisions all affect the part temperature. Part temperature should be verified in the end application.
7. I rms Testing : Temperature rise is highly dependent on many factors including pcb land pattern, trace size, and proximity to other components. Therefore temperature rise should be verified in application conditions.
8. Rated DC current: The lower value of I rms and Isat.

11、Typical Performance Curves





单击下面可查看定价，库存，交付和生命周期等信息

[>>TAI-TECH\(台庆\)](#)