

Power Inductor

HPC3010BMV-SERIES

1、 Features

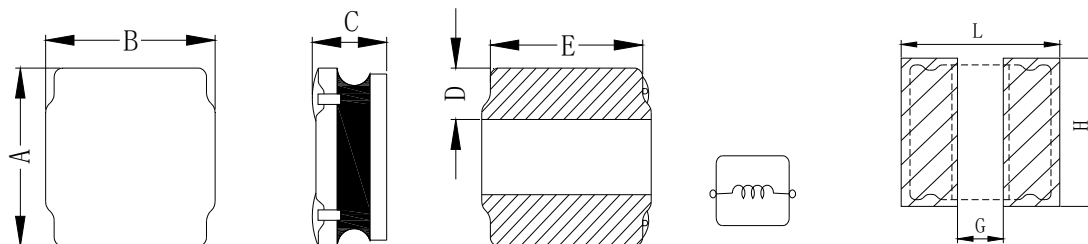
1. This specification applies Low Profile Power Inductors.
2. 100% Lead(Pb) & Halogen-Free and RoHS compliant.
3. High reliability -Reliability tests comply to AEC-Q200.



2、 Applications

Automotive applications.

3、 Dimension



Recommended Land pattern

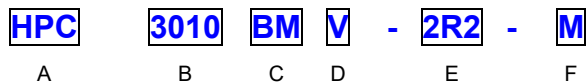
Series	*A(mm)	*B(mm)	*C(mm)	D(mm)	E(mm)
HPC3010BMV	3.0±0.2	3.0±0.2	0.9±0.1	0.9±0.3	2.7±0.3

L(mm)	G(mm)	H(mm)
3.5	0.9	3.5

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

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%.

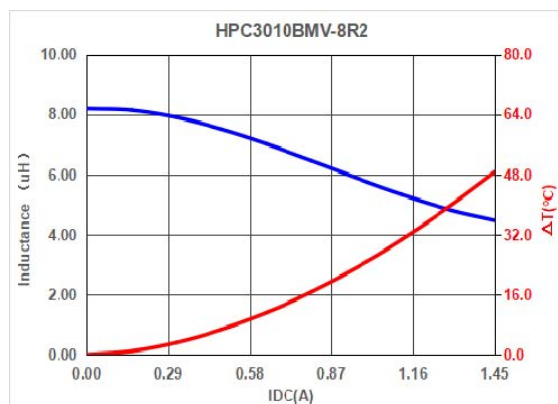
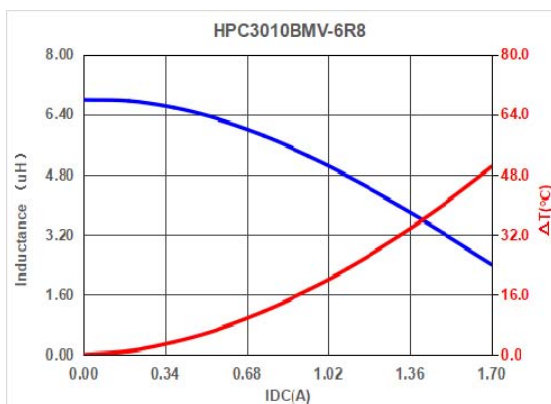
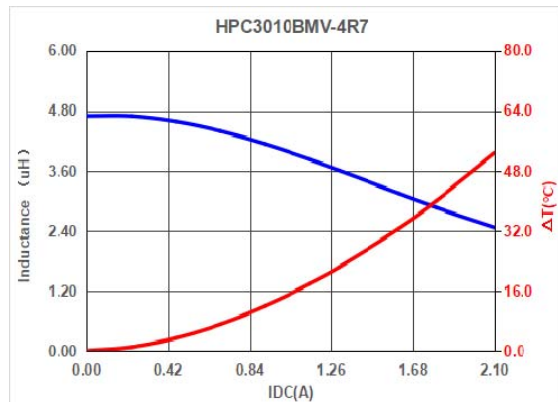
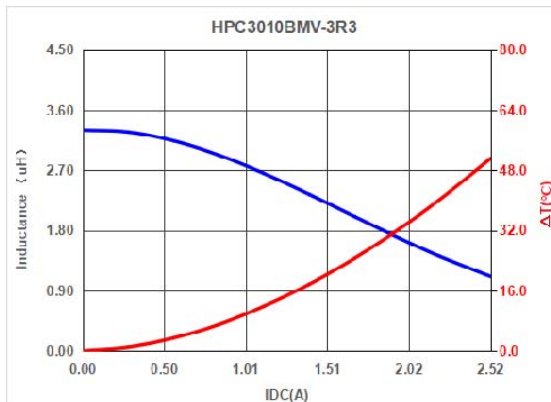
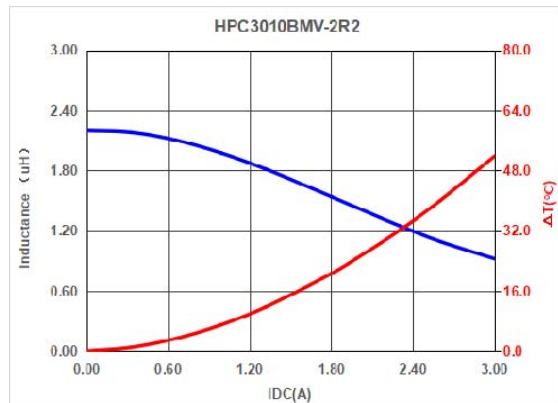
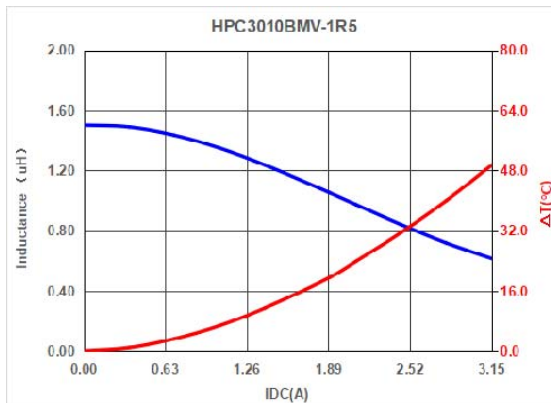
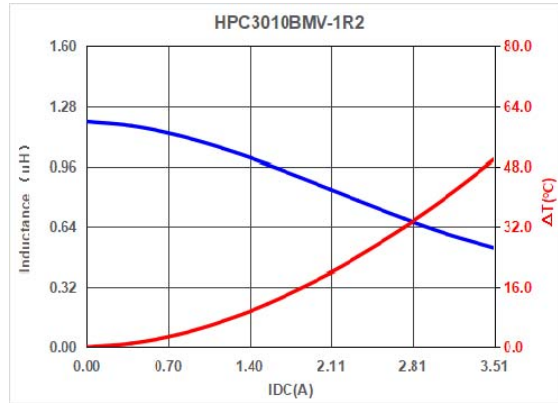
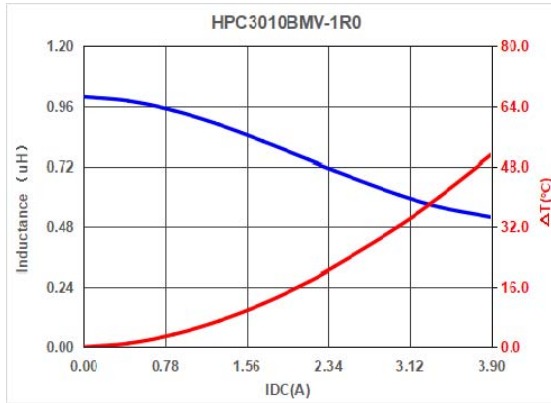
5、Specification

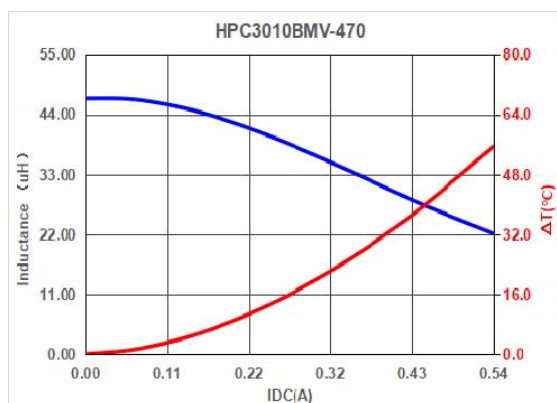
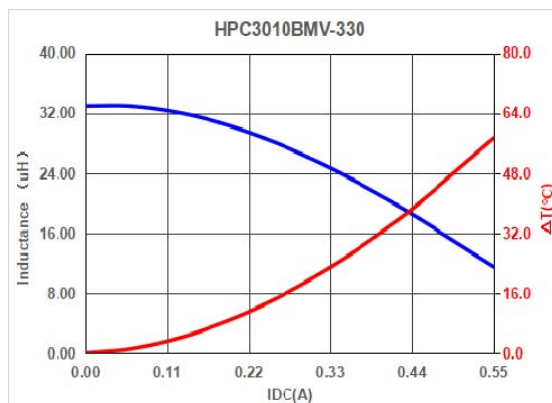
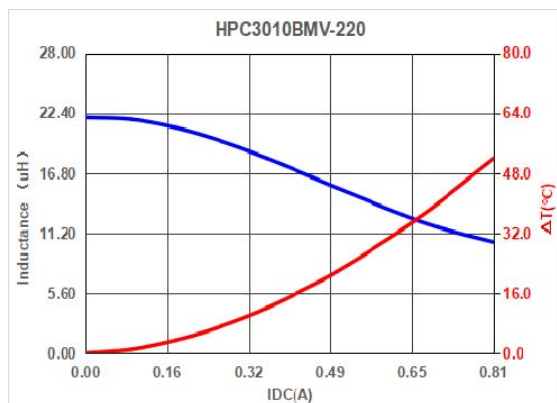
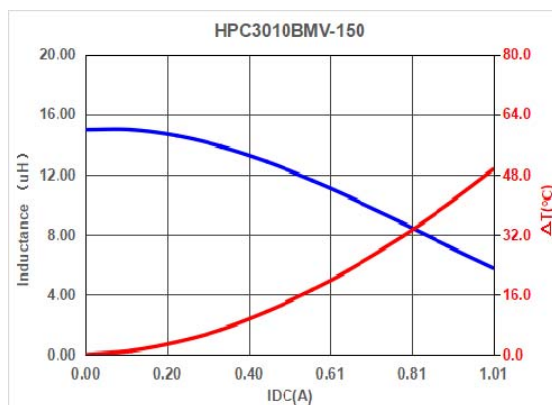
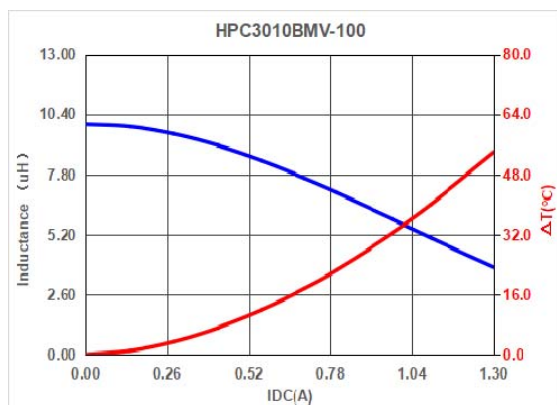
TAI-TECH Part Number	Inductance L0 A(uH)	I rms(A)		I sat (A)		DCR (m Ω)	
		Typ	max	typ	max	typ	max
HPC3010BMV-1R0M	1.00	3.40	3.00	2.40	2.20	56	67
HPC3010BMV-1R2M	1.20	3.10	2.70	2.10	1.90	60	72
HPC3010BMV-1R5M	1.50	2.80	2.50	1.90	1.70	75	90
HPC3010BMV-2R2M	2.20	2.60	2.30	1.80	1.60	100	120
HPC3010BMV-3R3M	3.30	2.20	1.90	1.40	1.20	130	156
HPC3010BMV-4R7M	4.70	1.80	1.50	1.30	1.20	190	228
HPC3010BMV-6R8M	6.80	1.50	1.30	1.10	1.00	260	312
HPC3010BMV-8R2M	8.20	1.30	1.10	1.00	0.90	330	396
HPC3010BMV-100M	10.0	1.10	1.00	0.80	0.70	420	504
HPC3010BMV-150M	15.0	0.90	0.80	0.65	0.60	565	678
HPC3010BMV-220M	22.0	0.70	0.60	0.50	0.45	760	912
HPC3010BMV-330M	33.0	0.60	0.50	0.45	0.40	1270	1524
HPC3010BMV-470M	47.0	0.45	0.40	0.36	0.33	1900	2280

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 (Irms) will cause the coil temperature rise approximately ΔT 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\(台庆\)](#)