

SMD Power Inductor

TMPC1004HV-Series(G)-D

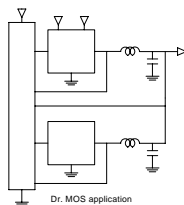
1. Features

1. Carbonyl Powder.
2. Compact design.
3. High current · low DCR · high efficiency.
4. Very low acoustic noise and very low leakage flux noise.
5. High reliability.
6. 100% Lead(Pb)-Free and RoHS compliant.

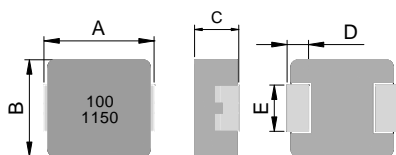


2. Applications

Note PC power system · incl. IMVP-6
DC/DC converter .

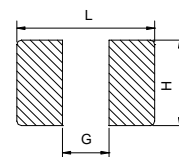


3. Dimensions



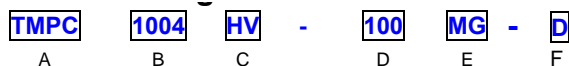
Series	A(mm)	B(mm)	C(mm)	D(mm)	E(mm)
TMPC1004HV	11.0±0.5	10.0±0.3	3.8±0.2	2.3±0.3	3.0±0.3

Recommend PC Board Pattern



L(mm)	G(mm)	H(mm)
13.6	5.4	3.5

4. Part Numbering



- A: Series
- B: Dimension
- C: Type
- D: Inductance
- E: Inductance Tolerance
- F: 印 D/C
- BxC
- Vehicle.
- 100=10.0uH
- M=±20%
- 印字:黑色,100 及 D/C 1150 (11 年,50 週期)(依實際生產日期而定)

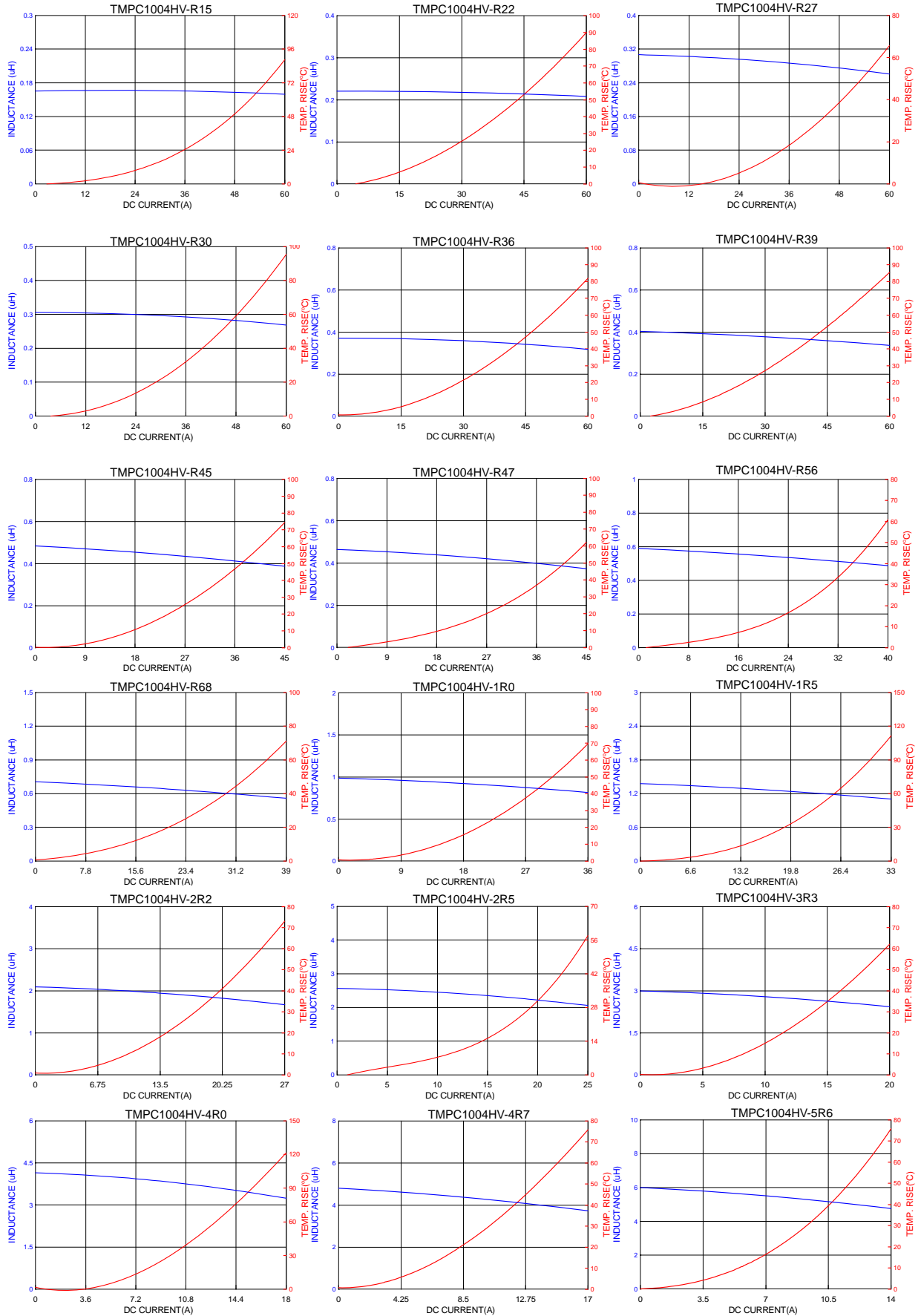
5. Specification

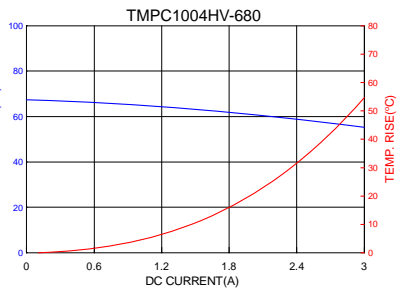
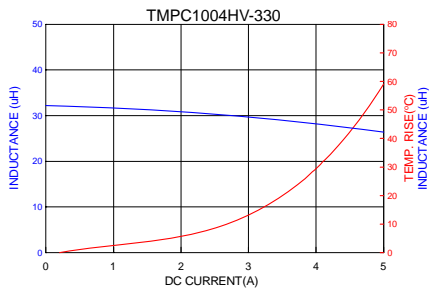
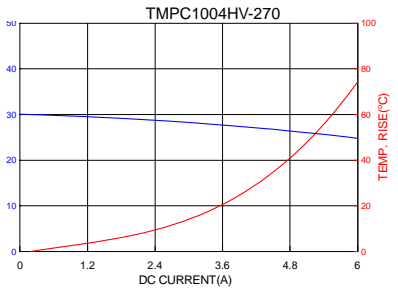
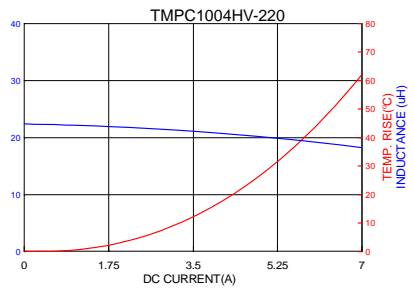
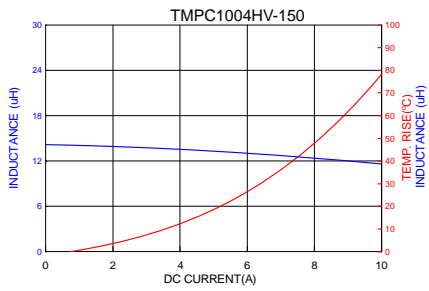
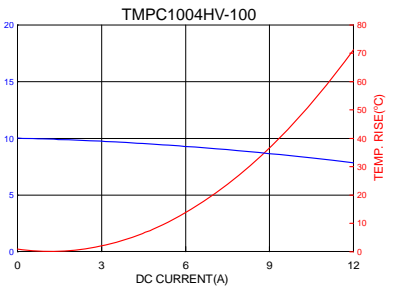
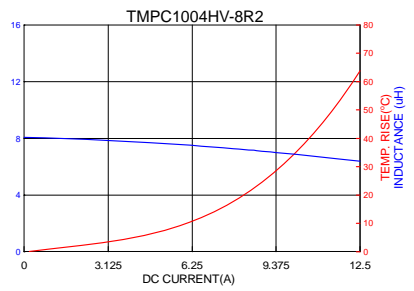
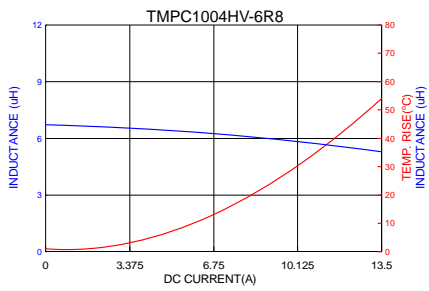
Part Number	Inductance L0 (uH)±20% @ 0 A	I rms (A) Typ.	I sat (A) Typ.	DCR (mΩ) Typ. @25°C	DCR (mΩ) Max. @25°C
TMPC1004HV-R15MG-D	0.15	43	75	0.5	0.6
TMPC1004HV-R22MG-D	0.22	35	60	0.8	1.0
TMPC1004HV-R27MG-D	0.27	33	60	0.82	1.0
TMPC1004HV-R30MG-D	0.30	32	60	0.94	1.1
TMPC1004HV-R36MG-D	0.36	31	60	1.05	1.2
TMPC1004HV-R39MG-D	0.39	30	60	1.1	1.3
TMPC1004HV-R45MG-D	0.45	29	45	1.3	1.5
TMPC1004HV-R47MG-D	0.47	28	43	1.3	1.5
TMPC1004HV-R56MG-D	0.56	25	40	1.6	1.8
TMPC1004HV-R68MG-D	0.68	22	39	2.4	2.7
TMPC1004HV-1R0MG-D	1.00	18	36	3.0	3.3
TMPC1004HV-1R5MG-D	1.50	16	33	4.0	4.6
TMPC1004HV-2R2MG-D	2.20	12	27	6.5	7.0
TMPC1004HV-2R5MG-D	2.50	11.5	23	7.9	8.7
TMPC1004HV-3R3MG-D	3.30	11	20	10.8	11.8
TMPC1004HV-4R0MG-D	4.00	10.2	18	13	15
TMPC1004HV-4R7MG-D	4.70	10	17	15.0	15.5
TMPC1004HV-5R6MG-D	5.60	9.0	14	17	19.3
TMPC1004HV-6R8MG-D	6.80	8.5	13.5	17.5	23.3
TMPC1004HV-8R2MG-D	8.20	8.0	12.5	20	22.5
TMPC1004HV-100MG-D	10.0	7.5	12.0	27.0	30
TMPC1004HV-150MG-D	15.0	6.25	10	40	45
TMPC1004HV-220MG-D	22.0	5.0	7.0	64	74
TMPC1004HV-270MG-D	27.0	4.0	6.0	86	100
TMPC1004HV-330MG-D	33.0	3.5	5.0	92	112
TMPC1004HV-680MG-D	68.0	2.0	3.0	205	240

Note:

1. Test frequency : L : 100KHz /1.0V;
2. All test data referenced to 25°C ambient.
3. Testing Instrument : L/Q: HP4284A,CH11025,CH3302,CH1320 ,CH1320S LCR METER / Rdc:CH16502,Agilent33420A MICRO OHMMETER.
4. Heat Rated Current (I rms) will cause the coil temperature rise approximately Δt of 40°C (keep 1min.).
5. Saturation Current (Isat) will cause L0 to drop 20% typical. (keep quickly).
6. The part temperature (ambient + temp rise) should not exceed 155°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. Special inquiries besides the above common used types can be met on your requirement.

6. 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\(台庆\)](#)