SMD Power Choke Coil

TMPC1265HP-Series(G)-D

1. Features

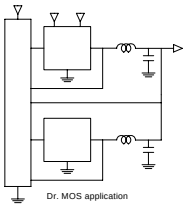
1. Carbonyl Powder inductor.
2. Compact design.
3. High current，low DCR，high efficiency.
4. Very low acoustic noise and very low leakage flux noise.
5. High reliability.
6. 100% Lead(Pb) & Halogen-Free and RoHS compliant.

Halogen-free

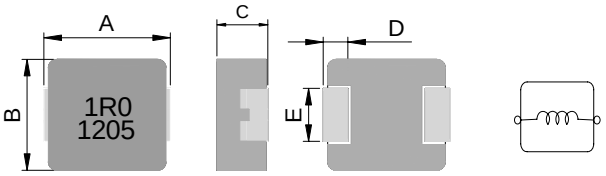
Pb-free

2. Applications

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

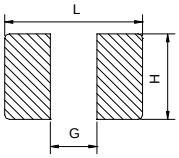


3. Dimensions



Series	A(mm)	B(mm)	C(mm)	D(mm)	E(mm)
TMPC1265HP	13.5±0.5	12.5±0.3	6.2±0.3	2.3±0.3	4.7±0.3

Recommend PC Board Pattern



L(mm)	G(mm)	H(mm)
14.2	8.0	5.0

4. Part Numbering

TMPC	1265	HP	-	1R0	MG	-	D
A	B	C		D	E		F

A: Series	
B: Dimension	BxC
C: Type	H: Carbonyl Powder；P: PAD broaden
D: Inductance	1R0=1.0uH
E: Inductance Tolerance	M=±20%
F D/C	印字:黑色. 1R0 及 D/C 1205 (D/C 前二碼是年份,後二碼是週期,依實際生產週期而定)

5. Specification

Part Number	Inductance L0 (uH)±20% @ 0 A	I rms (A) typ.	I sat (A) typ.	DCR (mΩ) typ. @25℃	DCR (mΩ) max. @25℃
TMPC1265HP-R15MG-D	0.15	55	118	0.49	0.60
TMPC1265HP-R22MG-D	0.22	53	112	0.47	0.60
TMPC1265HP-R30MG-D	0.30	48	72	0.6	0.72
TMPC1265HP-R33MG-D	0.33	46	68	0.65	0.8
TMPC1265HP-R36MG-D	0.36	45	66	0.7	0.9
TMPC1265HP-R40MG-D	0.40	44	64	0.7	1.0
TMPC1265HP-R47MG-D	0.47	41	63	0.9	1.2
TMPC1265HP-R50MG-D	0.50	40	60	0.92	1.25

Note:

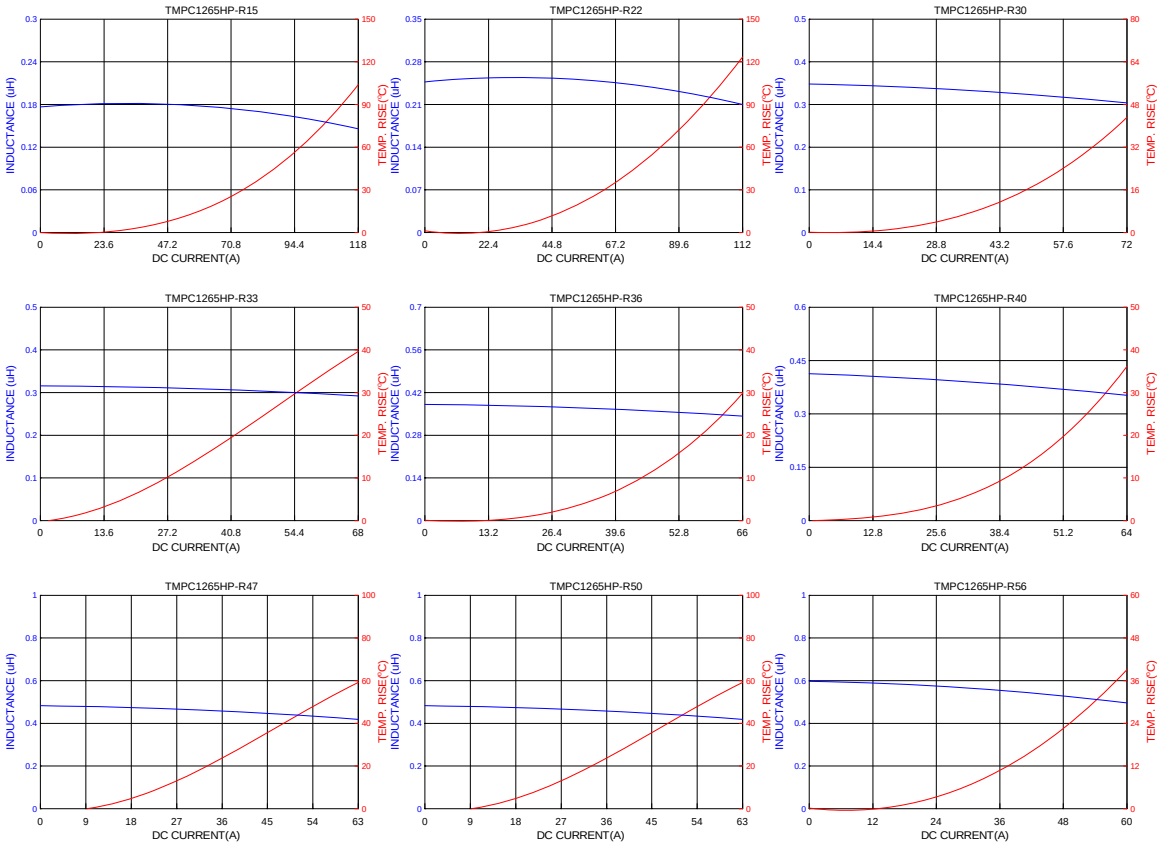
1. Test frequency : L : 100KHz /1.0V
2. All test data referenced to 25℃ ambient.
3. Testing Instrument : L/Q: HP4284A,CH11025,CH3302,CH1320 ,CH1320S LCR METER / Rdc:CH16502,Agilent33420A MICRO OHMMETER.
4. Heat Rated Current (Irms) will cause the coil temperature rise approximately △t40℃
5. Saturation Current (Isat 1) will cause L0 to drop approximately 20%
6. The part temperature (ambient + temp rise) should not exceed 125℃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.

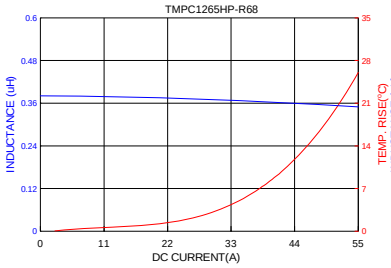
Part Number	Inductance L0 (uH)±20% @ 0 A	I rms (A) typ.	I sat (A) typ.	DCR (mΩ) typ. @25℃	DCR (mΩ) max. @25℃
TMPC1265HP-R56MG-D	0.56	37	58	1.05	1.2
TMPC1265HP-R68MG-D	0.68	35	55	1.25	1.5
TMPC1265HP-R82MG-D	0.82	33	50	1.5	1.9
TMPC1265HP-1R0MG-D	1.00	30	48	1.7	2.3
TMPC1265HP-1R5MG-D	1.50	27	45	2.5	3.0
TMPC1265HP-2R2MG-D	2.20	22	37	3.8	4.2
TMPC1265HP-3R3MG-D	3.30	18	30	5.7	6.8
TMPC1265HP-4R7MG-D	4.70	13.5	28	7.0	8.4
TMPC1265HP-5R6MG-D	5.60	12.5	23	8.5	10
TMPC1265HP-6R8MG-D	6.80	11.5	18	9.5	11.5
TMPC1265HP-8R2MG-D	8.20	10.5	16	12	15.5
TMPC1265HP-130MG-D	13.0	9	13	21	24
TMPC1265HP-150MG-D	15.0	9	12.5	23.2	28
TMPC1265HP-220MG-D	22.0	9	12	32.5	37
TMPC1265HP-470MG-D	47.0	6.5	9.5	76	90

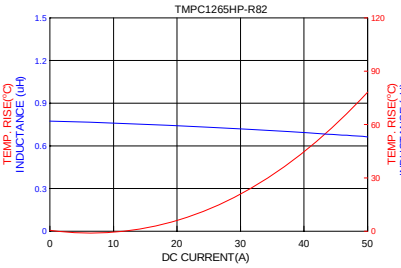
Note:

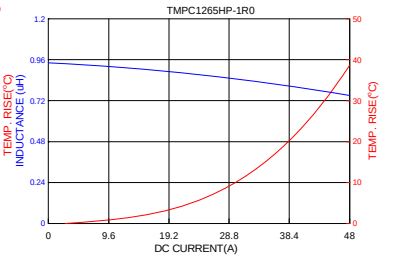
7. Test frequency : L : 100KHz /1.0V
8. All test data referenced to 25℃ ambient.
9. Testing Instrument : L/Q: HP4284A,CH11025,CH3302,CH1320 ,CH1320S LCR METER / Rdc:CH16502,Agilent33420A MICRO OHMMETER.
10. Heat Rated Current (Irms) will cause the coil temperature rise approximately △t≦40℃ (keep 1min.).
11. Saturation Current (Isat 1) will cause L0 to drop ≦ 20% typical. (keep quickly).
12. The part temperature (ambient + temp rise) should not exceed 125℃ 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.

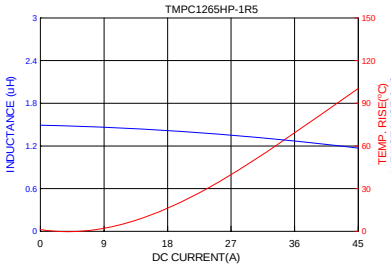
6. Typical Performance Curves

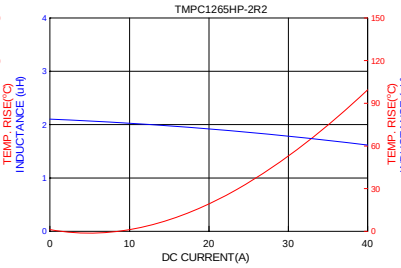


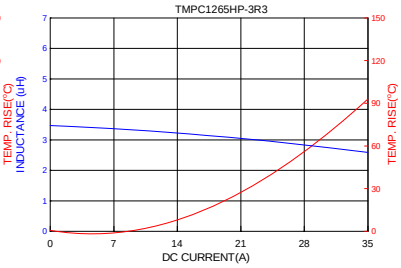

TMPC1265HP-R68
INDUCTANCE (uH)
TEMP. RISE(°C)
DC CURRENT(A)

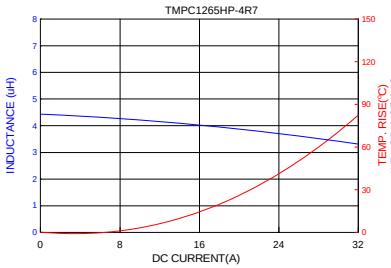

TMPC1265HP-R82
INDUCTANCE (uH)
TEMP. RISE(°C)
DC CURRENT(A)

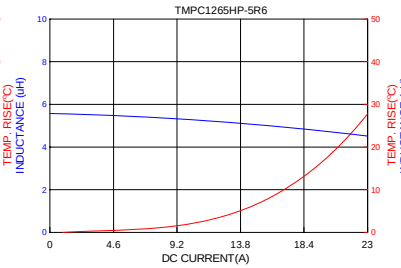

TMPC1265HP-1R0
INDUCTANCE (uH)
TEMP. RISE(°C)
DC CURRENT(A)

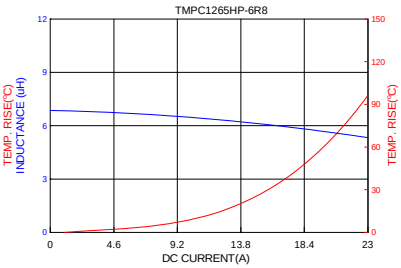

TMPC1265HP-1R5
INDUCTANCE (uH)
TEMP. RISE(°C)
DC CURRENT(A)

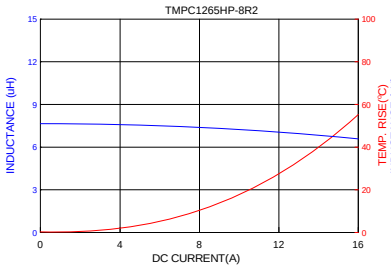

TMPC1265HP-2R2
INDUCTANCE (uH)
TEMP. RISE(°C)
DC CURRENT(A)

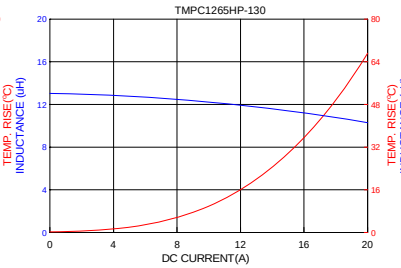

TMPC1265HP-3R3
INDUCTANCE (uH)
TEMP. RISE(°C)
DC CURRENT(A)

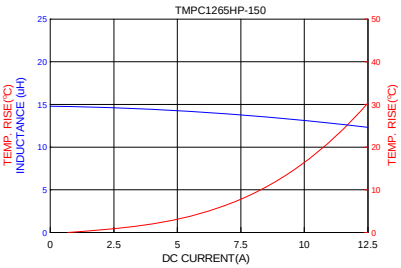

TMPC1265HP-4R7
INDUCTANCE (uH)
TEMP. RISE(°C)
DC CURRENT(A)

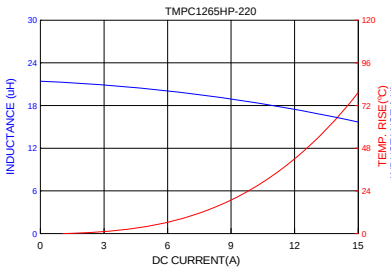

TMPC1265HP-5R6
INDUCTANCE (uH)
TEMP. RISE(°C)
DC CURRENT(A)

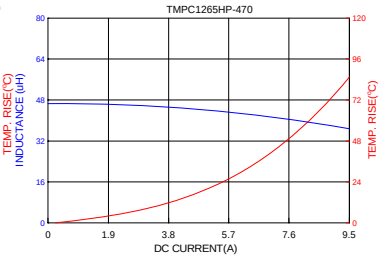

TMPC1265HP-6R8
INDUCTANCE (uH)
TEMP. RISE(°C)
DC CURRENT(A)


TMPC1265HP-8R2
INDUCTANCE (uH)
TEMP. RISE(°C)
DC CURRENT(A)


TMPC1265HP-130
INDUCTANCE (uH)
TEMP. RISE(°C)
DC CURRENT(A)


TMPC1265HP-150
INDUCTANCE (uH)
TEMP. RISE(°C)
DC CURRENT(A)


TMPC1265HP-220
INDUCTANCE (uH)
TEMP. RISE(°C)
DC CURRENT(A)


TMPC1265HP-470
TEMP. RISE(°C)
DC CURRENT(A)