

SMD Power Choke Coil

TMPC1206HP-Series(G)-D

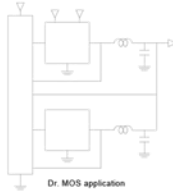
1. Features

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.

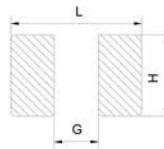
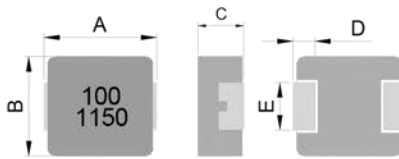


2. Applications

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



3. Dimensions


Recommend PC Board Pattern

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

Series	A(mm)	B(mm)	C(mm)	D(mm)	E(mm)
TMPC1206HP	13.5±0.5	12.5±0.3	5.7±0.3	2.3±0.3	4.7±0.3

4. Part Numbering



- A: Series
- B: Dimension
- C: Type
- D: Inductance
- E: Inductance Tolerance
- F: D/C
- BxC
- H: Carbonyl Powder ; P: PAD broaden
- 100=10uH
- M=±20%
- 印字:黑色. 100 及 D/C 1150 (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 1 (A) typ.	I sat 2 (A) typ.	DCR (mΩ) typ. @25°C	DCR (mΩ) max. @25°C
TMPC1206HP-6R8MG-D	6.80	15	19	25	12	13.8
TMPC1206HP-100MG-D	10.0	11	15.5	21	18	20.7
TMPC1206HP-120MG-D	12.0	9.5	13.5	18	20	23
TMPC1206HP-150MG-D	15.0	9.0	13	16	25	29
TMPC1206HP-180MG-D	18.0	8.5	12	15	30	35
TMPC1206HP-220MG-D	22.0	8.0	11	14	34	39.5
TMPC1206HP-270MG-D	27.0	7.0	9.0	13	49	56
TMPC1206HP-330MG-D	33.0	6.0	8.0	12.0	65	75
TMPC1206HP-470MG-D	47.0	5.5	7.0	11.0	80	90
TMPC1206HP-680MG-D	68.0	5.0	6.0	9.0	120	140
TMPC1206HP-101MG-D	100	4.0	5.0	8.0	180	200
TMPC1206HP-121MG-D	120	3.5	4.5	7.0	210	235
TMPC1206HP-151MG-D	150	3.0	4.0	6.0	300	350

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≤40°C (keep 1min.).
5. Saturation Current (I sat 1) will cause L0 to drop ≤ 20% typical. (keep quickly).
Saturation Current (I sat 2) will cause L0 to drop ≤ 30% typical. (keep quickly).
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. Special inquiries besides the above common used types can be met on your requirement.

6. Typical Performance Curves

