

# SMD Power Choke Coil

TMPC1265HP-Series(G)-D

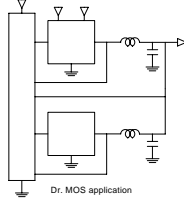
## 1. Features

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.

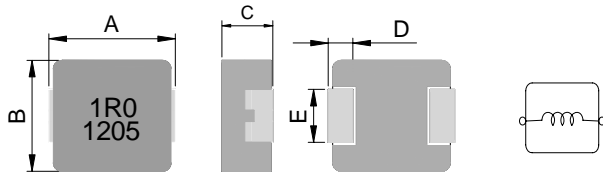


## 2. Applications

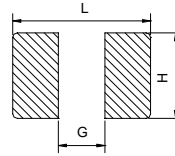
Note PC power system , incl. IMVP-6  
DC/DC converter.



## 3. Dimensions



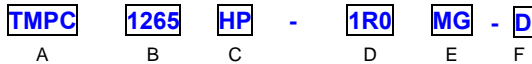
Recommend PC Board Pattern



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

Series	A(mm)	B(mm)	C(mm)	D(mm)	E(mm)
TMPC1265HP	13.5±0.5	12.5±0.3	6.2±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  
 1R0=1.0uH  
 M=±20%  
 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°C	DCR (mΩ) max. @25°C
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°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  $\Delta t \leq 40^\circ\text{C}$  (keep 1min.).
5. Saturation Current (Isat 1) will cause L0 to drop  $\leq 20\%$  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.

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
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

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## 6. Typical Performance Curves

