

SMD Power Choke Coil

TMPC0603H-Series(G)-D

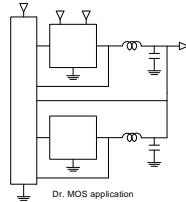
1. Features

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.

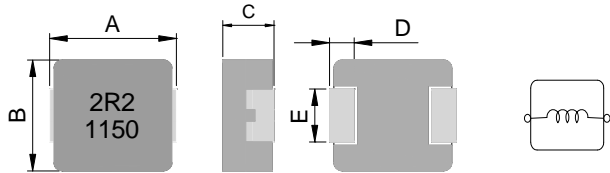


2. Applications

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

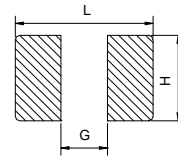


3. Dimensions



Series	A(mm)	B(mm)	C(mm)	D(mm)	E(mm)
TMPC0603H	7.3±0.3	6.6±0.3	2.8±0.2	1.8±0.3	3.0±0.3

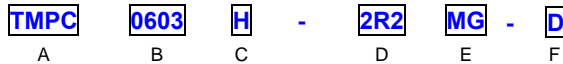
Recommend PC Board Pattern



L(mm)	G(mm)	H(mm)
8.4	2.5	3.5

Note: 1. The above PCB layout reference only.
 2. Recommend solder paste thickness at 0.15mm and above.

4. Part Numbering



A: Series
 B: Dimension
 C: Type
 D: Inductance
 E: Inductance Tolerance
 F: D/C

BxC
 Carbonyl powder
 2R2=2.2uH
 M=±20% : Y=±30%
 印字:黑色. 2R2 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 (A) Typ.	DCR (mΩ) Typ. @25°C	DCR (mΩ) Max. @25°C
TMPC0603H-R10YG-D	0.10±30%	32.5	60.0	1.2	1.7
TMPC0603H-R22YG-D	0.22±30%	23.0	40.0	2.1	2.8
TMPC0603H-R33MG-D	0.33	20.0	32.0	3.5	3.9
TMPC0603H-R47MG-D	0.47	17.5	26.0	4.0	4.2
TMPC0603H-R56MG-D	0.56	16.5	25.5	4.7	5.0
TMPC0603H-R68MG-D	0.68	15.5	25.0	4.8	5.5
TMPC0603H-R75MG-D	0.75	14.5	24.5	5.5	6.6
TMPC0603H-R82MG-D	0.82	13.0	24.0	6.7	8.0
TMPC0603H-1R0MG-D	1.00	11.0	22.0	8.3	10
TMPC0603H-1R5MG-D	1.50	9.0	18.0	13	15
TMPC0603H-1R8MG-D	1.80	8.5	16.0	14	17
TMPC0603H-2R2MG-D	2.20	8.0	14.0	18	20
TMPC0603H-2R5MG-D	2.50	7.0	13.0	20	22
TMPC0603H-2R7MG-D	2.70	7.0	13.0	24	27
TMPC0603H-3R3MG-D	3.30	6.0	13.5	28	30
TMPC0603H-4R7MG-D	4.70	5.5	10.0	37	40
TMPC0603H-5R6MG-D	5.60	5.0	9.0	43	48
TMPC0603H-6R8MG-D	6.80	4.5	8.0	54	60
TMPC0603H-8R2MG-D	8.20	4.0	7.5	64	68
TMPC0603H-100MG-D	10.0	3.5	6.0	75	85
TMPC0603H-150MG-D	15.0	3.0	4.0	107	123
TMPC0603H-220MG-D	22.0	2.0	3.5	165	190
TMPC0603H-330MG-D	33.0	2.0	2.5	200	240
TMPC0603H-470MG-D	47.0	1.75	2.0	302	363

Note:

1. Test frequency : L/Q : 100KHz /1.0V.
2. All test data referenced to 25°C ambient.
3. Testing Instrument : L: 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
5. Saturation Current (I sat) will cause L0 to drop approximately 20%.
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

