TMPD0605HG-Series-G4 Specification

SMD Molding Type Power Inductor

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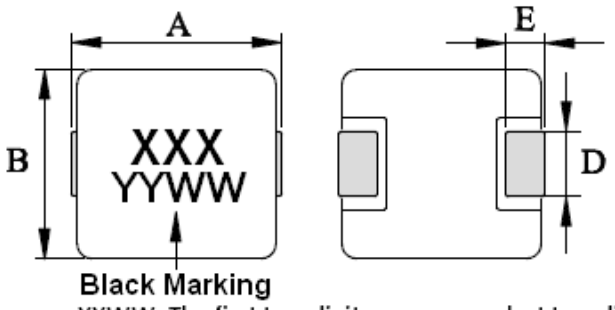
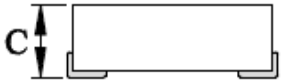
APPLICATION

Tablet terminals, HDDs, SSDs, DVCs, DSCs, mobile display panels, portable game devices, Telecommunications, Consumer electronics, Compact power supply modules, other

1. Shapes and Dimensions



YYWW: The first two digits mean year, last two digits mean cycle.
Depends on real produce cycle.



Unit: mm

Type	A	B	C	D	E
TMPD0605HG	7.3±0.5	6.6±0.3	4.8±0.2	3.0±0.3	1.6±0.5

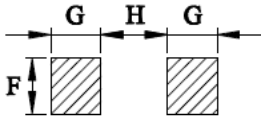
2. Ordering / Part Number Information

TMPD	0605	HG	-	1R0	M	-	G4
(1)	(2)	(3)		(4)	(5)		(6)

(1) Product Group
(2) Dimension Code
(3) Type Code
(4) Inductance Code
(5) Inductance Tolerance
(6) Control Code

3. Recommended Soldering Condition

3-1. Recommended Land Pattern

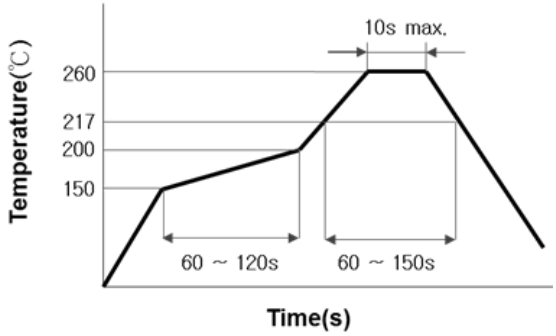


Unit : mm

Symbol	Dimension
F	3.4 Ref.
G	2.2 Ref.
H	3.7 Ref.

The Recommended Land pattern is for reference only.
Please consult your manufacturing partners to ensure your company's PCB design guidelines are met.

3-2. Recommended Soldering Profile



4. Electrical Characteristics

4-1. Electrical Specification

Part Number	Inductance (L) @100kHz, 1V	DC Resistance (R_{DC}) Max.	Saturation Current (I_{SAT}) Typ. / Max.	Temperature Rise Current (I_{RMS}) Typ. / Max.	Marking
TMPD0605HG-R15M-G4	0.15μH±20%	1.7mΩ	45.0A / 40.0A	35.0A / 32.0A	R15
TMPD0605HG-R22M-G4	0.22μH±20%	2.2mΩ	40.0A / 35.0A	30.0A / 26.0A	R22
TMPD0605HG-R33M-G4	0.33μH±20%	2.4mΩ	25.0A / 23.0A	26.0A / 24.0A	R33
TMPD0605HG-R47M-G4	0.47μH±20%	3.3mΩ	22.0A / 20.0A	22.0A / 20.0A	R47
TMPD0605HG-R56M-G4	0.56μH±20%	3.9mΩ	21.0A / 18.0A	21.0A / 19.0A	R56
TMPD0605HG-R68M-G4	0.68μH±20%	4.1mΩ	20.0A / 17.0A	20.0A / 18.0A	R68
TMPD0605HG-R82M-G4	0.82μH±20%	5.9mΩ	18.0A / 15.0A	18.0A / 16.0A	R68
TMPD0605HG-1R0M-G4	1.00μH±20%	6.2mΩ	16.0A / 13.0A	17.0A / 15.0A	1R0
TMPD0605HG-1R5M-G4	1.50μH±20%	7.3mΩ	13.0A / 10.5A	15.0A / 13.0A	1R5
TMPD0605HG-2R2M-G4	2.20μH±20%	11.5mΩ	10.0A / 8.5A	14.0A / 12.0A	2R2
TMPD0605HG-3R3M-G4	3.30μH±20%	16.2mΩ	9.5A / 8.0A	13.0A / 11.0A	3R3
TMPD0605HG-4R7M-G4	4.70μH±20%	24.0mΩ	8.8A / 7.5A	11.0A / 9.5A	4R7
TMPD0605HG-5R6M-G4	5.60μH±20%	33.0mΩ	8.0A / 7.2A	10.0A / 8.5A	5R6
TMPD0605HG-6R8M-G4	6.80μH±20%	36.0mΩ	7.6A / 7.0A	9.0A / 8.0A	6R8
TMPD0605HG-8R2M-G4	8.20μH±20%	45.0mΩ	6.5A / 6.0A	7.5A / 6.5A	8R2
TMPD0605HG-100M-G4	10.0μH±20%	53.0mΩ	6.0A / 5.7A	7.0A / 6.0A	100
TMPD0605HG-150M-G4	15.0μH±20%	85.0mΩ	4.0A / 3.2A	5.0A / 4.0A	150
TMPD0605HG-220M-G4	22.0μH±20%	142.0mΩ	3.6A / 3.1A	4.2A / 3.6A	220
TMPD0605HG-330M-G4	33.0μH±20%	170.0mΩ	2.3A / 1.8A	3.0A / 2.5A	330
TMPD0605HG-470M-G4	47.0μH±20%	320.0mΩ	1.8A / 1.5A	2.6A / 2.0A	470

Note1. The saturation current is DC current value Inductance decrease down to 30%.
(Test by a short period of time to minimize the self-heating effect of the component.)
Note2. The temperature rise current value is the DC current value having temperature increase up to 40℃.

4-3. Operating Temperature Range

-40℃ to +125℃(Including self - temperature rise)

4-4. Storage Temperature Range

Store this product under the condition of 5℃ to 40℃, 20% to 60%RH and use within 6 months

5. Packaging Information

Standard Quantity for Packaging: 800 pcs/Reel

Note

1. Please make sure that your product is has been evaluated and confirmed against your specifications when our product is mounted to your product.
2. Do not knock nor drop.
3. All the items and parameters in this product specification have been prescribed on the premise that our product is used for the purpose, under the condition and in the environment agreed upon between you and us. You are requested not to use our product deviating from such agreement.
4. Please keep the distance between transformer/coil and other components (refer to the standard IEC 950)