

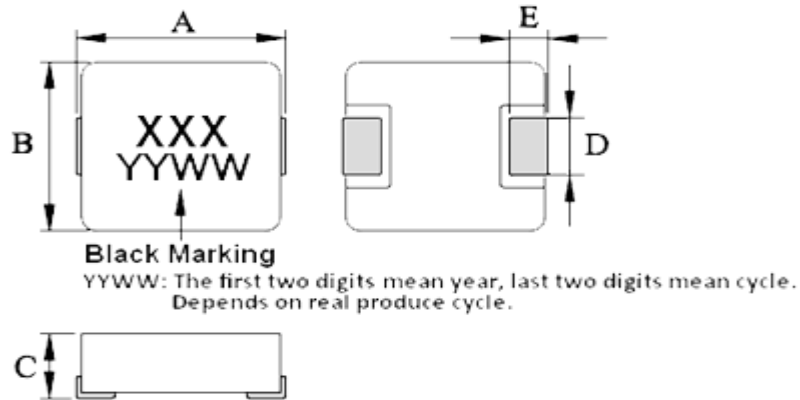
TMPC1707HG-Series-T Specification

SMD Molding Type Power Inductor

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



Unit: mm

Type	A	B	C	D	E
TMPC1707HG	17.6±0.5	16.9±0.3	6.7±0.3	11.9±0.3	2.1 Ref.

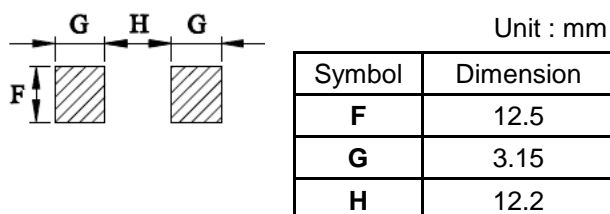
2. Ordering / Part Number Information

TMPC 1707 HG - 1R0 M - T
(1) (2) (3) (4) (5) (6)

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

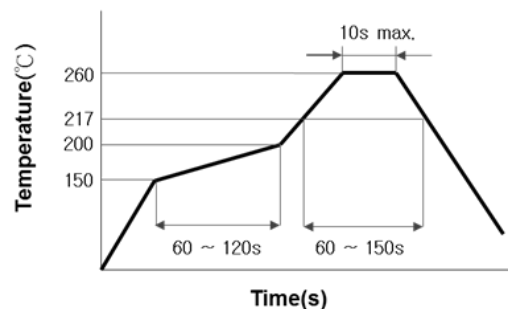
3. Recommended Soldering Condition

3-1. Recommended Land Pattern



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.	Temperature Rise Current (I _{RMS}) Typ.	Marking
TMPC1707HG-1R0M-T	1.00μH±20%	2.00mΩ	60.0A	52.0A	1R0
TMPC1707HG-1R5M-T	1.50μH±20%	2.50mΩ	52.0A	47.0A	1R5
TMPC1707HG-2R2M-T	2.20μH±20%	2.70mΩ	47.0A	43.5A	2R2
TMPC1707HG-3R3M-T	3.30μH±20%	3.90mΩ	45.0A	28.0A	3R3
TMPC1707HG-4R7M-T	4.70μH±20%	5.50mΩ	41.0A	25.0A	4R7
TMPC1707HG-5R6M-T	5.60μH±20%	7.05mΩ	40.0A	21.0A	5R6
TMPC1707HG-6R8M-T	6.80μH±20%	9.20mΩ	32.0A	19.0A	6R8
TMPC1707HG-8R2M-T	8.20μH±20%	10.80mΩ	25.0A	18.0A	8R2
TMPC1707HG-100M-T	10.0μH±20%	13.00mΩ	24.0A	16.5A	100
TMPC1707HG-150M-T	15.0μH±20%	20.50mΩ	23.0A	12.5A	150
TMPC1707HG-220M-T	22.0μH±20%	26.50mΩ	18.0A	12.0A	220
TMPC1707HG-330M-T	33.0μH±20%	44.00mΩ	15.0A	10.7A	330
TMPC1707HG-390M-T	39.0μH±20%	48.00mΩ	11.0A	9.2A	390
TMPC1707HG-470M-T	47.0μH±20%	55.00mΩ	9.5A	8.7A	470
TMPC1707HG-560M-T	56.0μH±20%	62.00mΩ	9.0A	7.8A	560
TMPC1707HG-680M-T	68.0μH±20%	80.00mΩ	8.0A	7.0A	680
TMPC1707HG-101M-T	100.0μH±20%	118.00mΩ	6.5A	5.3A	101

Note1. The saturation current is DC current value Inductance decrease down to 20%.

(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°C.

4-2. Operating Temperature Range

-40°C to +125°C (Including self - temperature rise)

4-3. Storage Temperature Range

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

5. Packaging Information

Standard Quantity for Packaging: 200 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)

The specifications are subject to change or our products in it may be discontinued without advance notice.
Please check with our sales representatives or product engineers before ordering.