

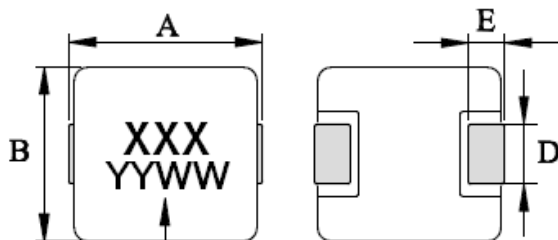
TMPC0603HG-xxxx Series Specification

SMD Molding Type Power Inductor

APPLICATION

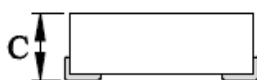
Tablet terminals, HDDs, SSDs, DVCs, DSCs, mobile display panels, portable game devices, Telecommunications, Consumer electronics, Compact power supply modules, other

1. Shapes and Dimensions



Black Marking

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
TMPC0603HG	8.0 Max	6.6±0.3	2.8±0.2	3.0±0.3	1.8 Ref.

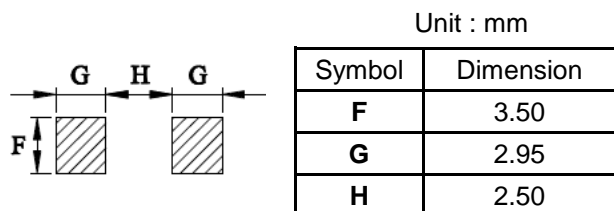
2. Ordering / Part Number Information

TMPC 0603 HG - R20 N
(1) (2) (3) (4) (5)

- (1) Product Group
- (2) Dimension Code
- (3) Type Code
- (4) Inductance Code
- (5) Inductance Tolerance M=±20%, N=±30%

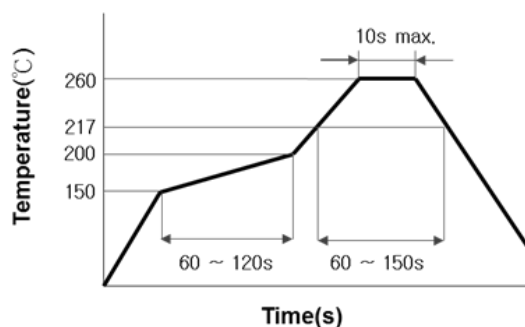
3. Recommended Soldering Condition

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
TMPC0603HG-R10N	0.10μH±30%	1.7mΩ	60.00A	32.00A	R10
TMPC0603HG-R22M	0.22μH±20%	2.8mΩ	40.00A	23.00A	R22
TMPC0603HG-R33M	0.33μH±20%	3.9mΩ	32.00A	20.00A	R33
TMPC0603HG-R47M	0.47μH±20%	4.2mΩ	26.00A	17.50A	R47
TMPC0603HG-R68M	0.68μH±20%	5.5mΩ	25.00A	15.50A	R68
TMPC0603HG-R82M	0.82μH±20%	8.0mΩ	24.00A	13.00A	R82
TMPC0603HG-1R0M	1.00μH±20%	10.0mΩ	22.00A	11.00A	1R0
TMPC0603HG-1R5M	1.50μH±20%	15.0mΩ	18.00A	9.00A	1R5
TMPC0603HG-2R2M	2.20μH±20%	20.0mΩ	14.00A	8.00A	2R2
TMPC0603HG-3R3M	3.30μH±20%	30.0mΩ	13.50A	6.00A	3R3
TMPC0603HG-4R7M	4.70μH±20%	40.0mΩ	10.00A	5.50A	4R7
TMPC0603HG-5R6M	5.60μH±20%	48.0mΩ	9.00A	5.00A	5R6
TMPC0603HG-6R8M	6.80μH±20%	60.0mΩ	8.00A	4.50A	6R8
TMPC0603HG-8R2M	8.20μH±20%	68.0mΩ	7.50A	4.00A	8R2
TMPC0603HG-100M	10.00μH±20%	85.0mΩ	5.50A	3.50A	100
TMPC0603HG-220M	22.00μH±20%	190.0mΩ	3.50A	2.00A	220
TMPC0603HG-330M	33.00μH±20%	240.0mΩ	2.50A	2.00A	330
TMPC0603HG-470M	47.00μH±20%	363.0mΩ	2.00A	1.75A	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°C.

4-3. Operating Temperature Range

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

4-4. Storage Temperature Range

Store this product under the condition of 5°C to 40°C, 20% to 70%RH and use within 6 months

5. Packaging Information

Standard Quantity for Packaging: 1,000 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)

Reference