

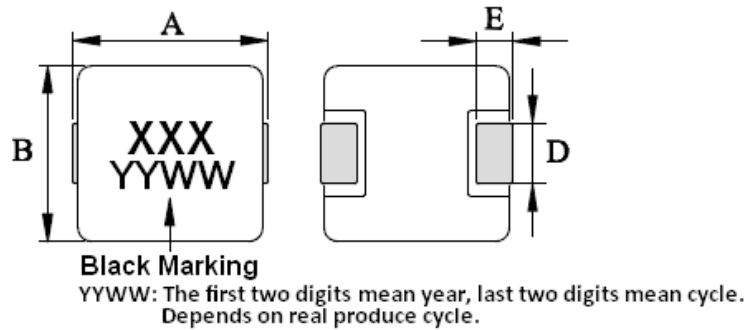
# TMPC1004HG Series Specification

## 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



Unit: mm

Type	A	B	C	D	E
TMPC1004HG	12.0 Max.	10.0±0.3	3.8±0.2	3.0±0.3	2.5 Ref.

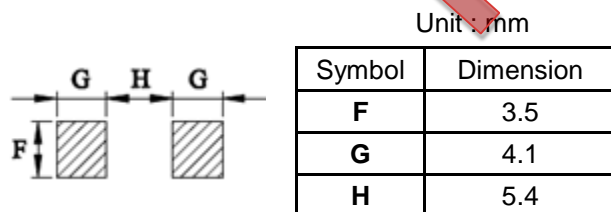
### 2. Ordering / Part Number Information

**TMPC**    **1004**    **HG**    **-**    **1R5**    **M**  
 (1)        (2)        (3)        (4)        (5)

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

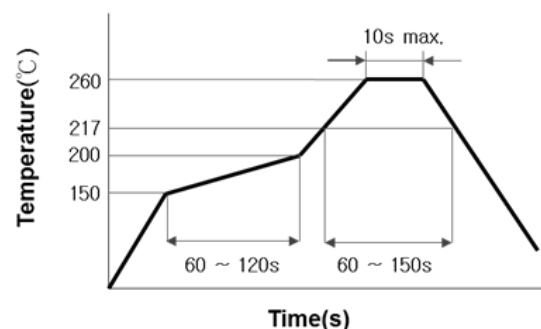
### 3. Recommended Soldering Condition

#### 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 (RDC) Max.	Saturation Current (I <sub>SAT</sub> ) Typ.	Temperature Rise Current (I <sub>RMS</sub> ) Typ.	Marking
TMPC1004HG-R15N	0.15μH±30%	0.6mΩ	75.00A	43.00A	R15
TMPC1004HG-R22M	0.22μH±20%	1.0mΩ	60.00A	35.00A	R22
TMPC1004HG-R36M	0.36μH±20%	1.2mΩ	60.00A	31.00A	R36
TMPC1004HG-R45M	0.45μH±20%	1.5mΩ	45.00A	29.00A	R45
TMPC1004HG-R56M	0.56μH±20%	1.8mΩ	40.00A	25.00A	R56
TMPC1004HG-R68M	0.68μH±20%	2.7mΩ	39.00A	22.00A	R68
TMPC1004HG-R88M	0.88μH±20%	2.9mΩ	38.00A	20.00A	R88
TMPC1004HG-1R0M	1.00μH±20%	3.3mΩ	36.00A	18.00A	1R0
TMPC1004HG-1R5M	1.50μH±20%	4.6mΩ	33.00A	16.00A	1R5
TMPC1004HG-2R2M	2.20μH±20%	7.0mΩ	27.00A	12.00A	2R2
TMPC1004HG-3R3M	3.30μH±20%	11.8mΩ	20.00A	11.00A	3R3
TMPC1004HG-4R7M	4.70μH±20%	15.5mΩ	17.00A	10.00A	4R7
TMPC1004HG-6R8M	6.80μH±20%	23.3mΩ	13.50A	8.50A	6R8
TMPC1004HG-8R2M	8.20μH±20%	22.5mΩ	12.50A	8.00A	8R2
TMPC1004HG-100M	10.0μH±20%	30.0mΩ	12.00A	7.50A	100
TMPC1004HG-150M	15.0μH±20%	45.0mΩ	10.00A	6.25A	150
TMPC1004HG-220M	22.0μH±20%	74.0mΩ	7.00A	5.00A	220
TMPC1004HG-330M	33.0μH±20%	112.0mΩ	5.00A	3.50A	330

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.

### 4-2. 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 70%RH and use within 6 months.

## 5. Packaging Information

Standard Quantity for Packaging: 500 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.