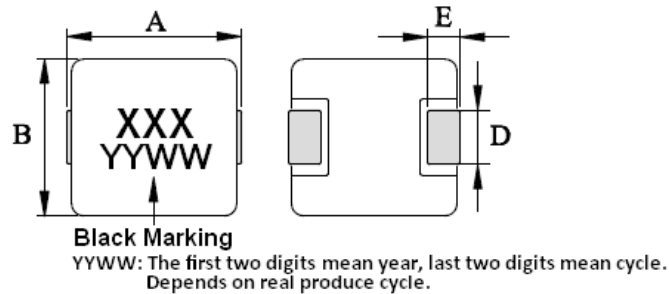


### APPLICATION

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
TMPD0603HG	7.1±0.5	6.6±0.3	2.8±0.2	3.0±0.3	1.6±0.5

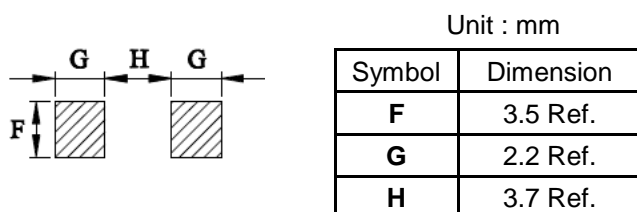
### 2. Ordering / Part Number Information

**TMPD 0603 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

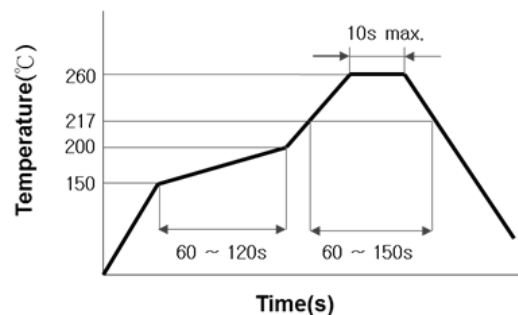
### 3. Recommended Soldering Condition

#### 3-1. Recommended Land Pattern



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 <sub>DC</sub> ) Max.	Saturation Current (I <sub>SAT</sub> ) Typ.	Temperature Rise Current (I <sub>RMS</sub> ) Typ.	Marking
TMPD0603HG-R15N-G4	0.15μH±30%	2.1mΩ	40.0A	30.0A	R15
TMPD0603HG-R22M-G4	0.22μH±20%	2.5mΩ	34.0A	23.0A	R22
TMPD0603HG-R33M-G4	0.33μH±20%	3.4mΩ	25.0A	21.0A	R33
TMPD0603HG-R36M-G4	0.36μH±20%	3.9mΩ	24.0A	20.0A	R36
TMPD0603HG-R47M-G4	0.47μH±20%	4.0mΩ	20.0A	18.0A	R47
TMPD0603HG-R56M-G4	0.56μH±20%	4.5mΩ	18.0A	16.5A	R56
TMPD0603HG-R68M-G4	0.68μH±20%	5.3mΩ	17.0A	16.0A	R68
TMPD0603HG-R82M-G4	0.82μH±20%	6.0mΩ	16.0A	14.0A	R82
TMPD0603HG-1R0M-G4	1.00μH±20%	7.4mΩ	15.0A	12.0A	1R0
TMPD0603HG-1R2M-G4	1.20μH±20%	9.5mΩ	14.0A	10.0A	1R2
TMPD0603HG-1R5M-G4	1.50μH±20%	12.1mΩ	14.0A	10.0A	1R5
TMPD0603HG-2R2M-G4	2.20μH±20%	15.0mΩ	10.0A	8.0A	2R2
TMPD0603HG-3R3M-G4	3.30μH±20%	22.0mΩ	9.5A	6.5A	3R3
TMPD0603HG-4R7M-G4	4.70μH±20%	33.0mΩ	6.5A	5.5A	4R7
TMPD0603HG-5R6M-G4	5.60μH±20%	42.0mΩ	6.0A	5.5A	5R6
TMPD0603HG-6R8M-G4	6.80μH±20%	50.0mΩ	6.0A	4.5A	6R8
TMPD0603HG-8R2M-G4	8.20μH±20%	60.0mΩ	6.0A	4.5A	8R2
TMPD0603HG-100M-G4	10.0μH±20%	68.0mΩ	5.5A	4.0A	100
TMPD0603HG-150M-G4	15.0μH±20%	140.0mΩ	4.5A	3.0A	150
TMPD0603HG-220M-G4	22.0μH±20%	190.0mΩ	3.0A	2.5A	220
TMPD0603HG-330M-G4	33.0μH±20%	258.0mΩ	2.5A	2.1A	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.

### 4-3. 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 60%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