

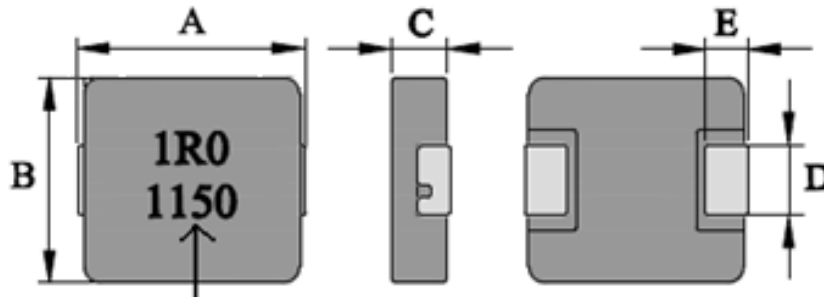
TMPC0605HG-xxxx Specification

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



Marking: Black (D/C前二碼是年份,後二碼是週期,依實際生產週期而定) Unit: mm

Type	A	B	C	D	E
TMPC0605HG	7.3±0.5	6.6±0.3	4.8±0.2	3.0±0.3	1.8 Ref.

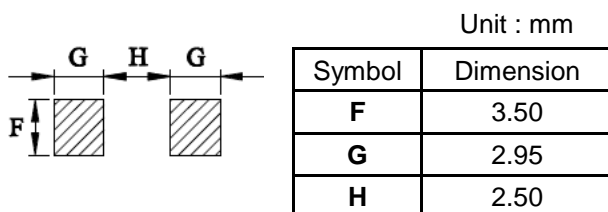
2. Ordering / Part Number Information

TMPC 0605 HG - 1R0 M
 (1) (2) (3) (4) (5)

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

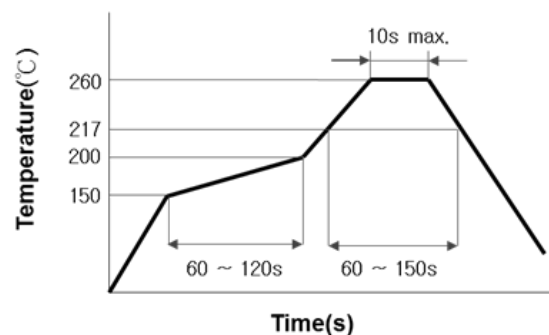
3. Recommended Soldering Condition

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 _{SAT}) Typ.	Temperature rise current (I _{RMS}) Typ.
TMPC0605HG-R22M	0.22μH±20%	1.9mΩ	35.0A	25.0A
TMPC0605HG-R33M	0.33μH±20%	3.0mΩ	32.0A	25.0A
TMPC0605HG-R47M	0.47μH±20%	3.9mΩ	30.0A	22.0A
TMPC0605HG-R56M	0.56μH±20%	4.2mΩ	27.0A	20.0A
TMPC0605HG-R68M	0.68μH±20%	4.5mΩ	24.0A	18.0A
TMPC0605HG-R82M	0.82μH±20%	4.9mΩ	22.0A	16.5A
TMPC0605HG-1R0M	1.00μH±20%	6.5mΩ	20.0A	15.0A
TMPC0605HG-1R5M	1.50μH±20%	9.0mΩ	16.5A	12.0A
TMPC0605HG-2R2M	2.20μH±20%	12.0mΩ	14.0A	10.0A
TMPC0605HG-3R3M	3.30μH±20%	20.9mΩ	12.0A	8.0A
TMPC0605HG-4R7M	4.70μH±20%	30.8mΩ	10.0A	6.5A
TMPC0605HG-5R6M	5.60μH±20%	49.0mΩ	9.0A	6.0A
TMPC0605HG-6R8M	6.80μH±20%	51.5mΩ	8.5A	5.5A
TMPC0605HG-8R2M	8.20μH±20%	63.0mΩ	8.0A	5.0A
TMPC0605HG-100M	10.0μH±20%	69.0mΩ	7.5A	4.0A
TMPC0605HG-150M	15.0μH±20%	92.0mΩ	6.0A	3.5A
TMPC0605HG-220M	22.0μH±20%	170.0mΩ	5.5A	2.5A
TMPC0605HG-330M	33.0μH±20%	200.0mΩ	3.5A	2.0A

Note1. The saturation current is DC current value Inductance decrease down to 30%.

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. Package Quantity

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)