

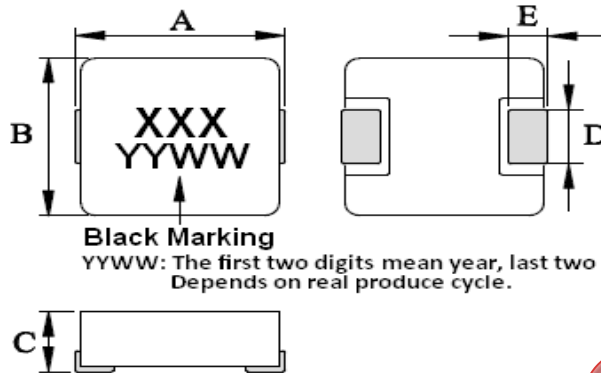
TMPC1265HG-xxxx Series Specification

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
TMPC1265HG	13.5±0.5	12.5±0.3	6.2±0.3	4.7±0.3	2.3 Ref.

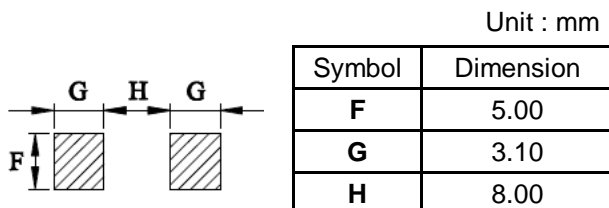
2. Ordering / Part Number Information

TMPC 1265 HG - R47 M
(1) (2) (3) (4) (5)

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

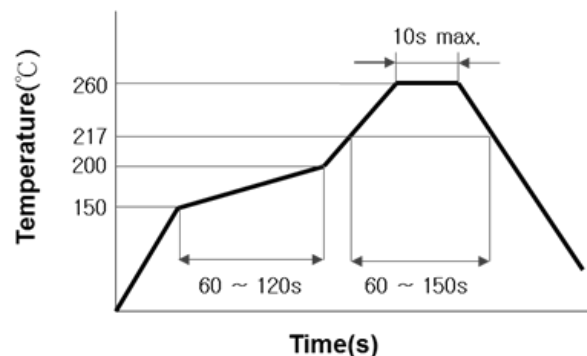
3. Recommended Soldering Condition

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 (R _{DC}) Max.	Saturation Current (I _{SAT}) Typ.	Temperature Rise Current (I _{RMS}) Typ.	Marking
TMPC1265HG-R22M	0.22μH±20%	0.6mΩ	112.0A	53.0A	R22
TMPC1265HG-R33M	0.33μH±20%	0.8mΩ	68.0A	46.0A	R33
TMPC1265HG-R47M	0.47μH±20%	1.2mΩ	63.0A	41.0A	R47
TMPC1265HG-R56M	0.56μH±20%	1.2mΩ	58.0A	37.0A	R56
TMPC1265HG-R68M	0.68μH±20%	1.5mΩ	55.0A	35.0A	R68
TMPC1265HG-R82M	0.82μH±20%	1.9mΩ	50.0A	33.0A	R82
TMPC1265HG-1R0M	1.00μH±20%	2.3mΩ	48.0A	30.0A	1R0
TMPC1265HG-1R5M	1.50μH±20%	3.0mΩ	45.0A	27.0A	1R5
TMPC1265HG-2R2M	2.20μH±20%	4.2mΩ	37.0A	22.0A	2R2
TMPC1265HG-3R3M	3.30μH±20%	6.8mΩ	30.0A	18.0A	3R3
TMPC1265HG-4R7M	4.70μH±20%	8.4mΩ	28.0A	13.5A	4R7
TMPC1265HG-5R6M	5.60μH±20%	10.0mΩ	23.0A	12.5A	5R6
TMPC1265HG-6R8M	6.80μH±20%	11.5mΩ	18.0A	11.5A	6R8
TMPC1265HG-8R2M	8.20μH±20%	15.5mΩ	16.0A	10.5A	8R2
TMPC1265HG-100M	10.00μH±20%	16.5mΩ	15.0A	10.0A	100
TMPC1265HG-130M	13.00μH±20%	24.0mΩ	13.0A	9.0A	130
TMPC1265HG-150M	15.00μH±20%	28.0mΩ	12.5A	9.0A	150
TMPC1265HG-220M	22.00μH±20%	37.0mΩ	12.0A	9.0A	220
TMPC1265HG-330M	33.00μH±20%	58.0mΩ	11.0A	8.0A	330
TMPC1265HG-470M	47.00μH±20%	90.0mΩ	9.5A	6.5A	470
TMPC1265HG-680M	68.00μH±20%	130.0mΩ	7.8A	4.8A	680
TMPC1265HG-101M	100.0μH±20%	165.0mΩ	5.5A	4.2A	101

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. Package Quantity

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)

Reference