

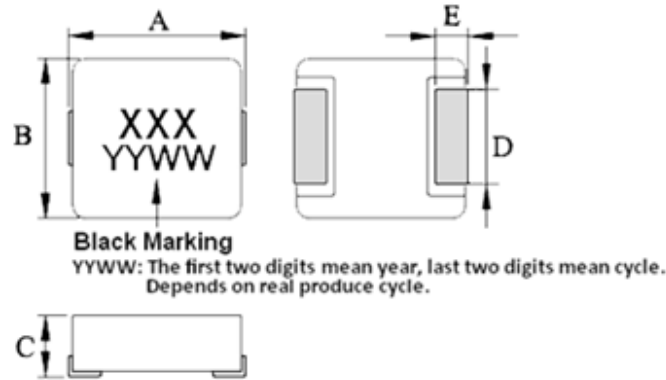
TMPD1707SP-Series-G4 Specification

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
TMPD1707SP	18.5 Max.	16.9±0.3	6.7±0.3	11.9±0.3	2.3 Ref.

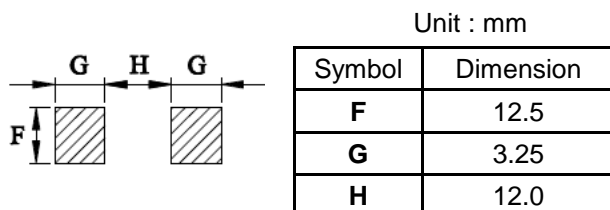
2. Ordering / Part Number Information

TMPD 1707 SP - 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

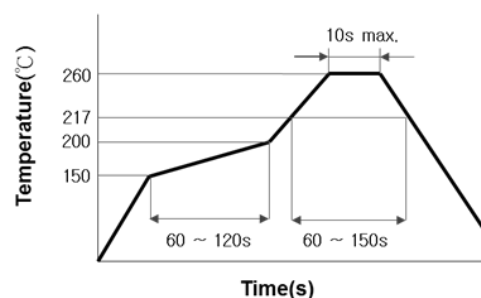
3. Recommended Soldering Condition

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 _{DC}) Max.	Saturation Current (I _{SAT}) Typ. / Max.	Temperature Rise Current (I _{RMS}) Typ. / Max.
TMPD1707SP-R47M-G4	0.47μH±20%	0.90mΩ	110.0A / 100.0A	60.0A / 55.0A
TMPD1707SP-R56M-G4	0.56μH±20%	0.97mΩ	80.0A / 70.0A	56.0A / 50.0A
TMPD1707SP-1R0M-G4	1.00μH±20%	1.30mΩ	50.0A / 45.0A	46.0A / 42.0A
TMPD1707SP-1R5M-G4	1.50μH±20%	1.80mΩ	46.0A / 40.0A	39.0A / 35.0A
TMPD1707SP-1R8M-G4	1.80μH±20%	2.00mΩ	40.0A / 34.0A	35.0A / 32.0A
TMPD1707SP-2R2M-G4	2.20μH±20%	2.20mΩ	35.0A / 32.0A	32.0A / 30.0A
TMPD1707SP-3R3M-G4	3.30μH±20%	3.30mΩ	32.0A / 29.0A	30.0A / 28.0A
TMPD1707SP-4R7M-G4	4.70μH±20%	4.50mΩ	29.0A / 26.0A	28.0A / 26.0A
TMPD1707SP-6R8M-G4	6.80μH±20%	7.20mΩ	25.0A / 22.0A	24.0A / 22.0A
TMPD1707SP-8R2M-G4	8.20μH±20%	9.20mΩ	23.0A / 21.0A	22.0A / 20.0A
TMPD1707SP-100M-G4	10.0μH±20%	10.60mΩ	22.0A / 19.0A	21.0A / 19.0A
TMPD1707SP-150M-G4	15.0μH±20%	15.50mΩ	16.0A / 14.0A	16.0A / 14.0A
TMPD1707SP-180M-G4	18.0μH±20%	20.00mΩ	14.0A / 12.0A	14.5A / 12.5A
TMPD1707SP-220M-G4	22.0μH±20%	24.00mΩ	13.5A / 11.5A	13.5A / 11.5A
TMPD1707SP-330M-G4	33.0μH±20%	37.00mΩ	12.0A / 10.0A	12.0A / 10.0A
TMPD1707SP-470M-G4	47.0μH±20%	47.00mΩ	9.5A / 8.0A	9.5A / 8.0A
TMPD1707SP-680M-G4	68.0μH±20%	76.00mΩ	8.5A / 7.2A	8.0A / 6.5A
TMPD1707SP-820M-G4	82.0μH±20%	83.00mΩ	8.0A / 6.5A	6.5A / 5.7A
TMPD1707SP-101M-G4	100.0μH±20%	105.00mΩ	6.5A / 5.5A	6.0A / 5.0A

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 60%RH and use within 6 months

5. Packaging Information

Standard Quantity for Packaging: 200 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