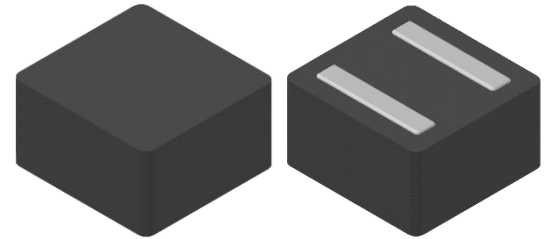


CMI-MMPF5030QL-SB SERIES

Features

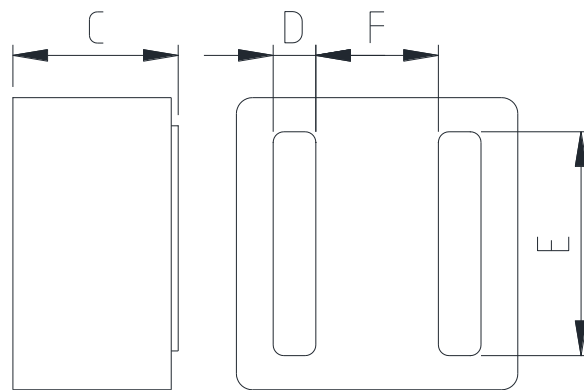
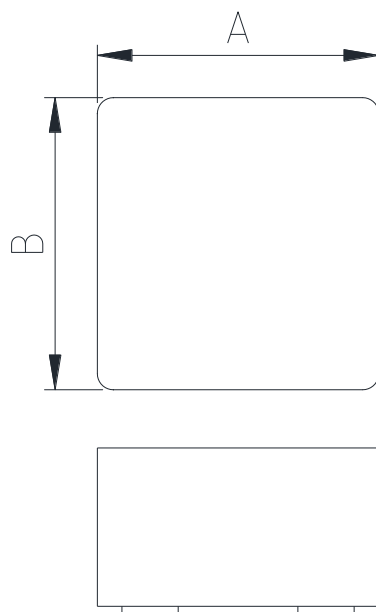
- ▶ Metal powder molding type for EMC protection.
- ▶ Lower DCR with applying flat wire.
- ▶ Available tape and reel for auto insertion.
- ▶ Halogen-Free.
- ▶ RoHS compliant.



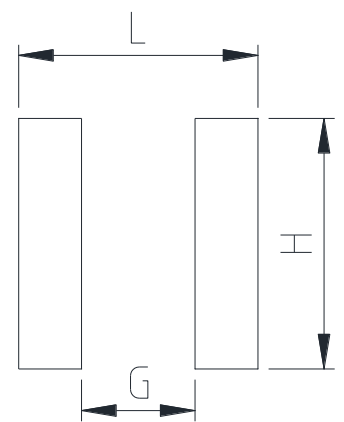
Applications

- ▶ For DC/DC Converter

Dimension (Unit:mm)

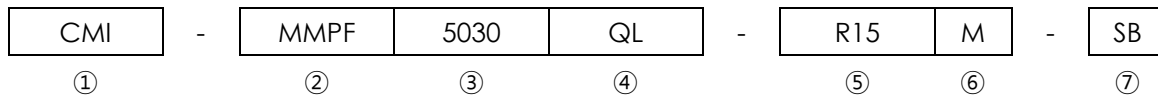


Land Pattern (Unit:mm)



| A | B | C | D | E | F | G | H | L |
|-----------|-----------|----------|----------|----------|----------|------|------|------|
| 5.28 ±0.2 | 5.48 ±0.2 | 3.1 Max. | 0.8 ±0.2 | 4.2 Typ. | 2.3 Typ. | 2.13 | 4.70 | 4.49 |

Regulation of part number



- ① CoilMaster's initial
- ② Series Name : Metal Molded Power inductor Flat wire type.
- ③ Core Size (unit:mm)
- ④ Material
- ⑤ Typical inductance value (0.15uH)
- ⑥ Inductance tolerance ($\pm 20\%$)
- ⑦ Type (SB)

Specifications

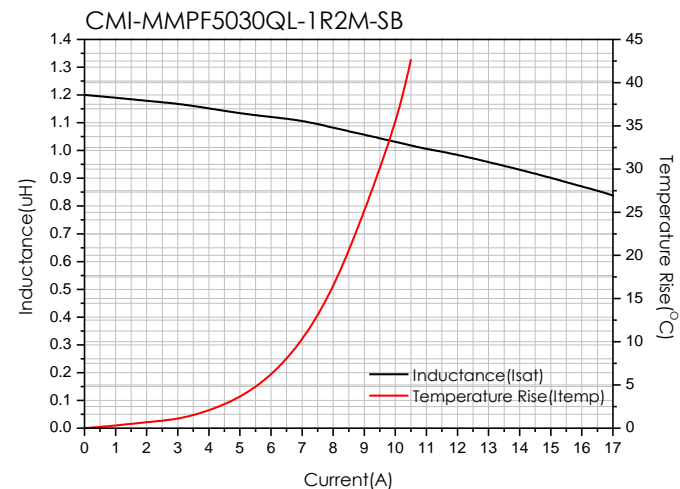
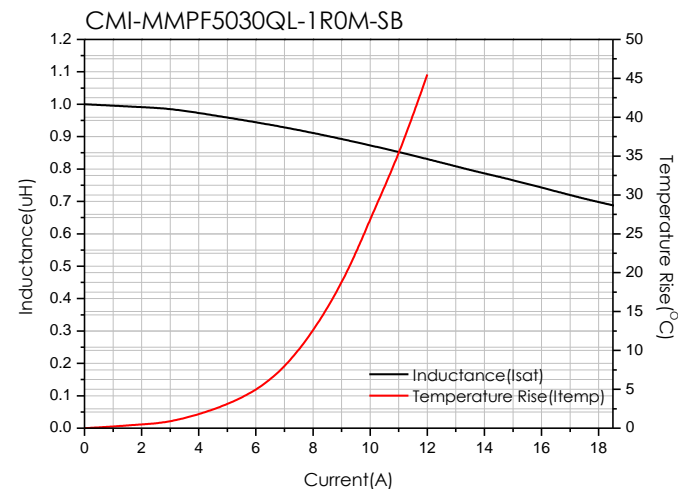
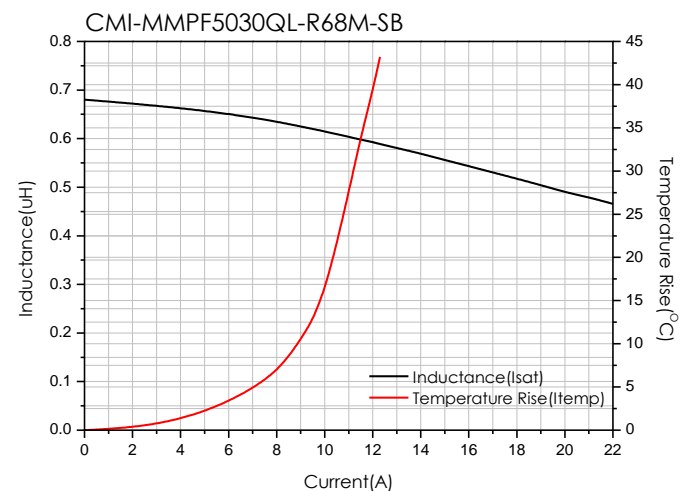
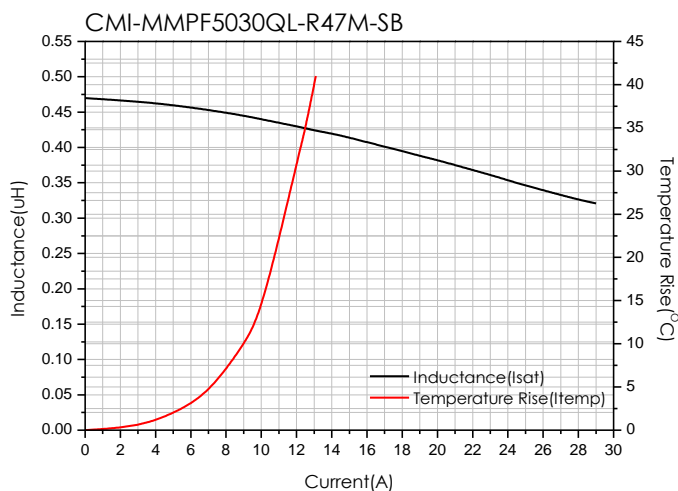
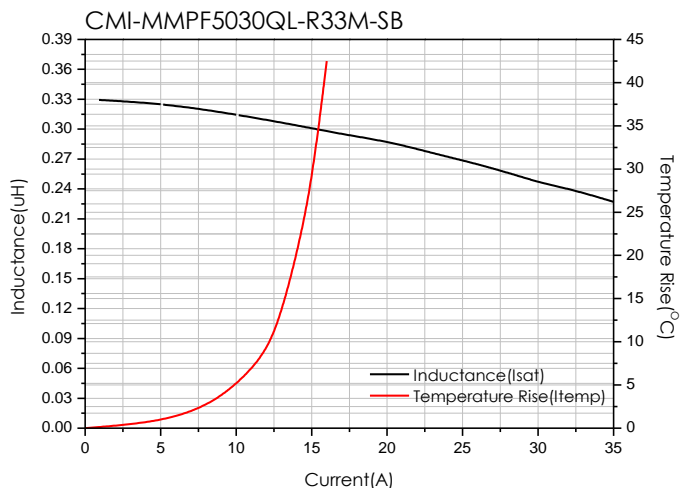
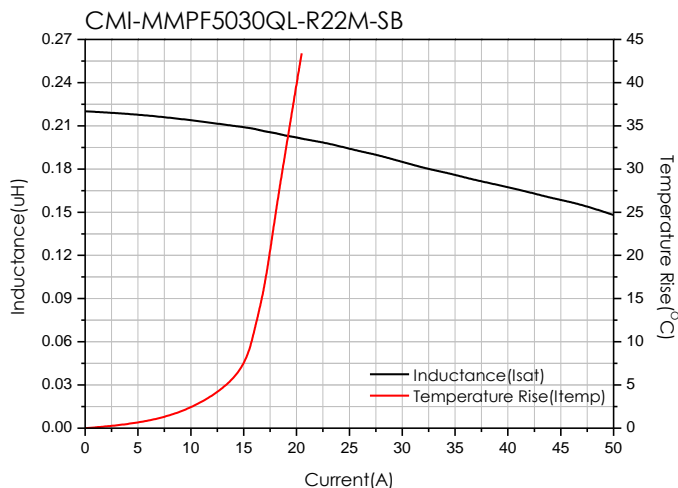
| Part Number | Inductance (uH) $\pm 20\%$ | DCR(mohm) Max.(Typ.) | Isat(A) Max.(Typ.) | Itemp(A) Max.(Typ.) | Test Frequency (Hz) |
|------------------------|-------------------------------|-------------------------|-----------------------|------------------------|---------------------------|
| CMI-MMPF5030QL-R22M-SB | 0.22 | 3.1(2.6) | 33.0(38.0) | 16.0(16.5) | 1M |
| CMI-MMPF5030QL-R33M-SB | 0.33 | 3.5(2.9) | 27.0(32.0) | 15.0(15.5) | 1M |
| CMI-MMPF5030QL-R47M-SB | 0.47 | 4.4(3.7) | 21.0(26.0) | 12.2(12.7) | 1M |
| CMI-MMPF5030QL-R68M-SB | 0.68 | 6.6(5.5) | 16.0(18.0) | 11.0(11.5) | 1M |
| CMI-MMPF5030QL-1R0M-SB | 1.0 | 7.8(6.5) | 14.5(16.5) | 10.0(10.5) | 1M |
| CMI-MMPF5030QL-1R2M-SB | 1.2 | 8.4(7.0) | 13.5(15.5) | 9.5(10.0) | 1M |
| CMI-MMPF5030QL-1R5M-SB | 1.5 | 11.5(9.6) | 9.5(11.5) | 8.8(9.3) | 1M |
| CMI-MMPF5030QL-3R3M-SB | 3.3 | 24(20) | 8.5(9.5) | 5.5(5.7) | 1M |
| | | | | | |
| | | | | | |
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| | | | | | |
| | | | | | |

- Isat: When based on the inductance change rate (Approximately 30% below in the initial value)
- Itemp: When based on the temperature increase (Temperature increase of approximately 40°C by self heating)
- Operating Temperature Range (including self temperature) : -40°C ~ +125 °c

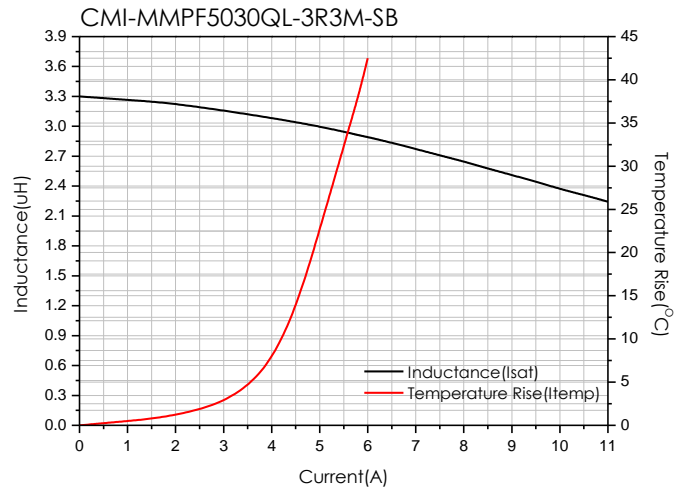
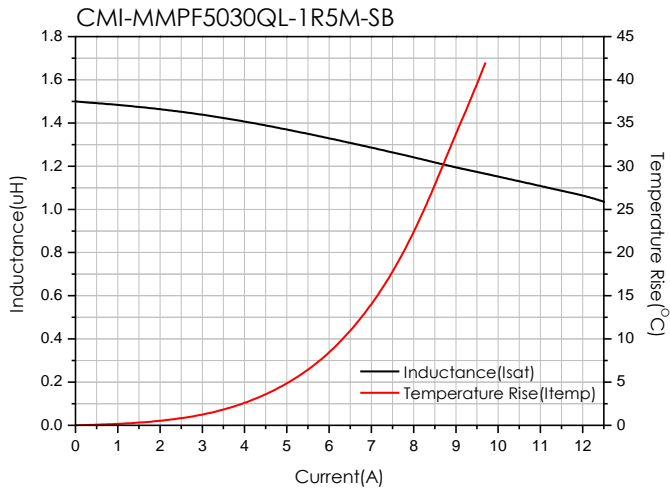
Note 1 : Circuit design, component placement, PCB trace size and thickness, airflow and other cooling. Provision all affect the part Temperature. Part temperature should be verified in the end application.

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Electrical characteristics



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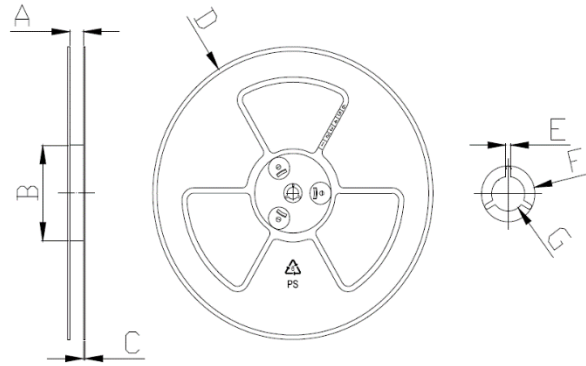


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Packaging

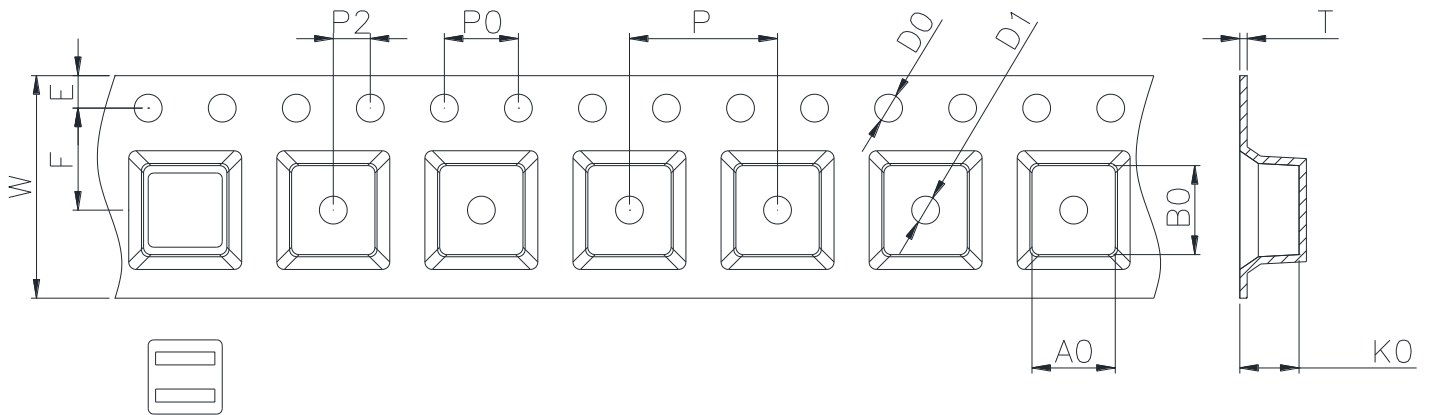
(1) Package quantity : 1,500 (pcs/reel)

(2) Reel Dimensions (unit:mm)



| A | B | C | D | E | F | G |
|-------|-------|-------|-------|-------|-------|-------|
| 12.50 | 100.0 | 2.00 | 330.0 | 2.30 | 21.50 | 13.00 |
| +0.50 | +1.00 | +0.20 | +3.00 | +0.30 | +0.30 | +0.50 |
| -0.50 | -1.00 | -0.20 | -3.00 | -0.30 | -0.30 | -0.20 |

(3) Tape Dimensions



| W | A0 | B0 | K0 | E | F | P | P0 | P2 | D0/D1 | T |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 12.00 | 5.60 | 5.90 | 3.10 | 1.75 | 5.50 | 8.00 | 4.00 | 2.00 | 1.50 | 0.35 |
| +0.30 | +0.10 | +0.10 | +0.10 | +0.10 | +0.10 | +0.10 | +0.10 | +0.10 | +0.10 | +0.05 |
| -0.10 | -0.10 | -0.10 | -0.10 | -0.10 | -0.10 | -0.10 | -0.10 | -0.10 | -0.00 | -0.05 |

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