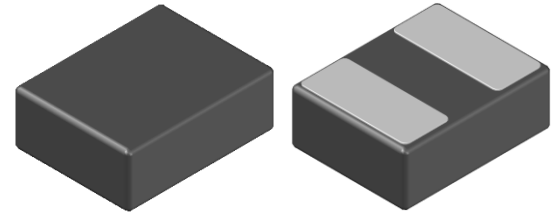


# CMI-CMMP322512BC-SERIES

## Features

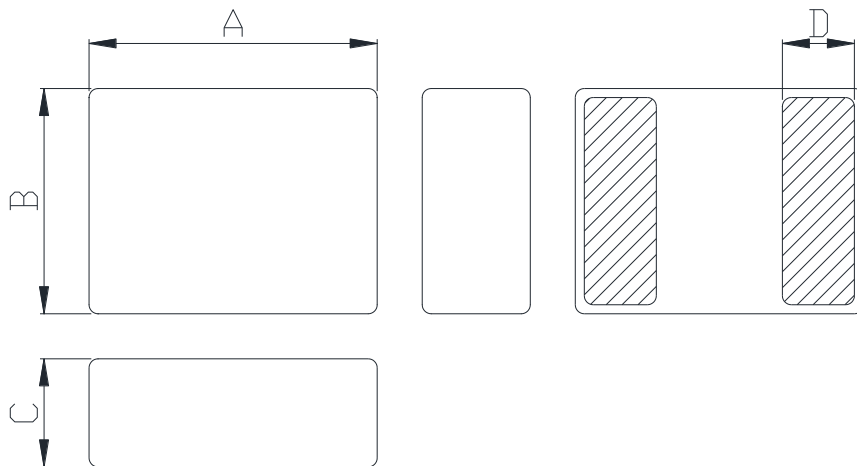
- ▶ Low profile and Compact design.
- ▶ Metal powder molding type for EMC protection.
- ▶ Available tape and reel for auto insertion.
- ▶ Halogen-Free.
- ▶ RoHS compliant.
- ▶ AEC-Q200 qualified.



## Applications

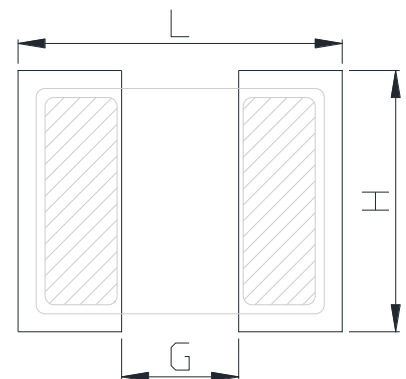
- ▶ Car navigation, Car stereo and Car accessories, ADAS ECU, In-C-Vehicle camera (View camera, Sensing camera), Automotive communication module.

## Dimension (Unit:mm)



| A        | B        | C        | D        |
|----------|----------|----------|----------|
| 3.2 ±0.3 | 2.5 ±0.3 | 1.2 Max. | 0.8 ±0.3 |

## Land Pattern (Unit:mm)



| G   | H   | L   |
|-----|-----|-----|
| 1.3 | 2.9 | 3.6 |

## Regulation of part number

|     |   |      |        |    |   |     |   |
|-----|---|------|--------|----|---|-----|---|
| CMI | - | CMMP | 322512 | BC | - | R68 | M |
| ①   |   | ②    | ③      | ④  |   | ⑤   | ⑥ |

- ① CoilMaster's initial
- ② Series Name : Car Metal Molded Power inductor
- ③ Core Size (unit:mm)
- ④ Type
- ⑤ Typical inductance value (0.68uH)
- ⑥ Inductance tolerance ( $\pm 20\%$ )

## Specifications

| Part Number           | Inductance<br>(uH) $\pm 20\%$ | DCR(mohm)<br>Max.(Typ.) | Isat(A)<br>Max.(Typ.) | Itemp(A)<br>Max.(Typ.) | Test<br>Frequency<br>(Hz) |
|-----------------------|-------------------------------|-------------------------|-----------------------|------------------------|---------------------------|
| CMI-CMMP322512BC-R68M | 0.68                          | 37.2(31)                | 6.50(7.20)            | 4.00(4.20)             | 1M                        |
| CMI-CMMP322512BC-1R0M | 1.0                           | 48(40)                  | 5.90(6.20)            | 3.40(3.60)             | 1M                        |
| CMI-CMMP322512BC-2R2M | 2.2                           | 72(60)                  | 4.00(4.40)            | 2.80(3.20)             | 1M                        |
| CMI-CMMP322512BC-3R3M | 3.3                           | 156(130)                | 3.50(3.70)            | 1.80(2.00)             | 1M                        |
| CMI-CMMP322512BC-4R7M | 4.7                           | 195(162)                | 2.80(3.10)            | 1.60(1.90)             | 1M                        |
| CMI-CMMP322512BC-6R8M | 6.8                           | 260(220)                | 1.90(2.20)            | 1.50(1.70)             | 1M                        |
| CMI-CMMP322512BC-100M | 10                            | 390(330)                | 1.30(1.60)            | 1.00(1.10)             | 1M                        |
|                       |                               |                         |                       |                        |                           |
|                       |                               |                         |                       |                        |                           |
|                       |                               |                         |                       |                        |                           |
|                       |                               |                         |                       |                        |                           |
|                       |                               |                         |                       |                        |                           |
|                       |                               |                         |                       |                        |                           |
|                       |                               |                         |                       |                        |                           |
|                       |                               |                         |                       |                        |                           |
|                       |                               |                         |                       |                        |                           |

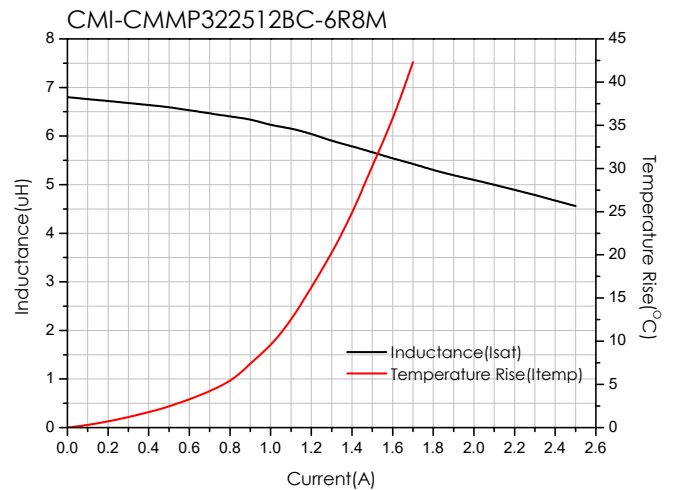
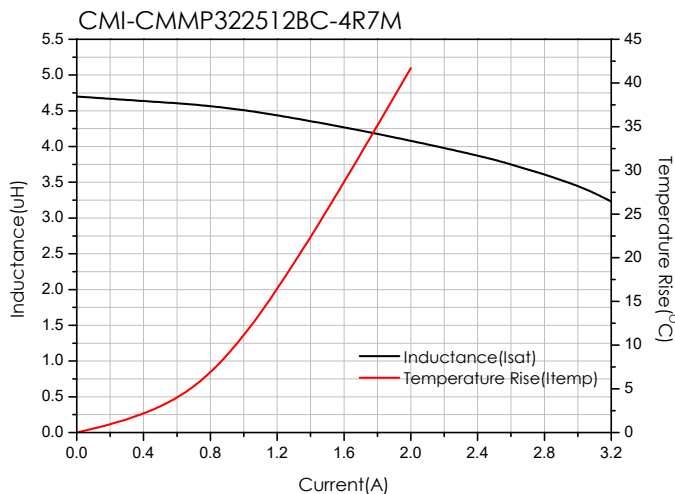
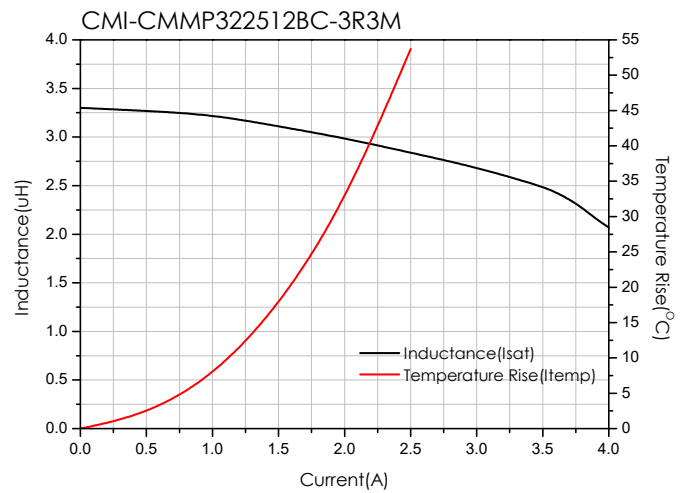
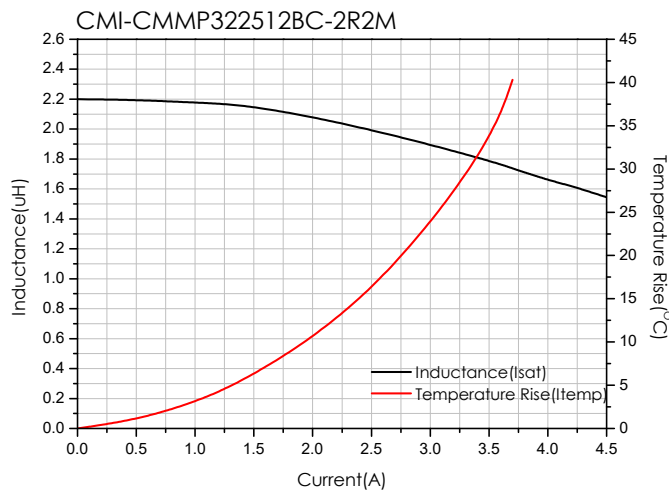
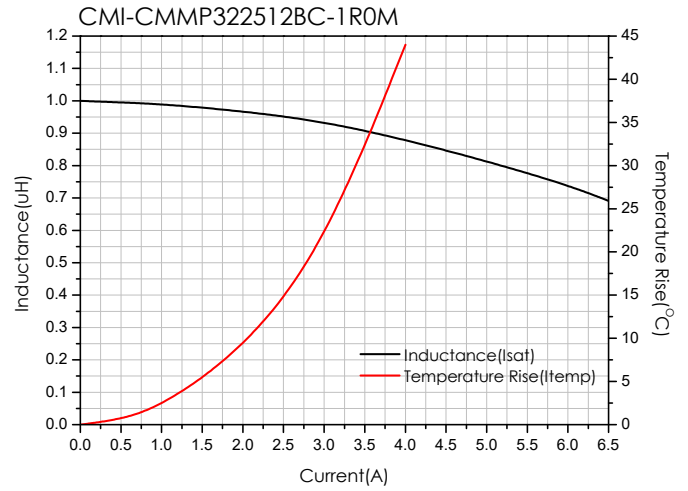
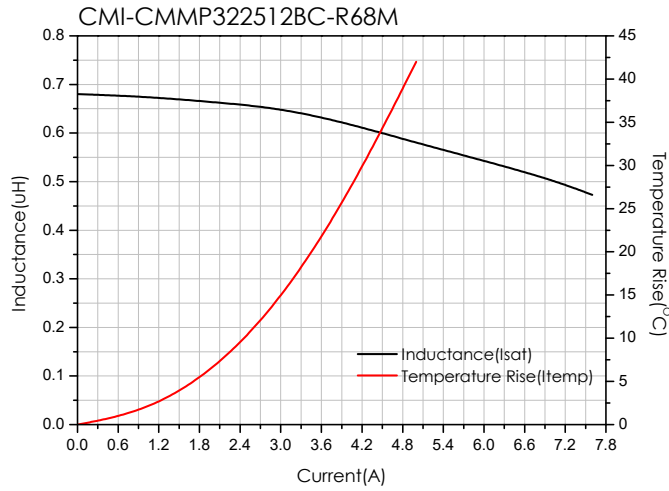
- Isat: When based on the inductance change rate (Approximately 30% below in the initial value)
- Itemp: When based on the temperature increase (Temperature increase of approximately 40°C by self heating)
- Operating Temperature Range (including self temperature) : -40°C ~ +150 °c

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.

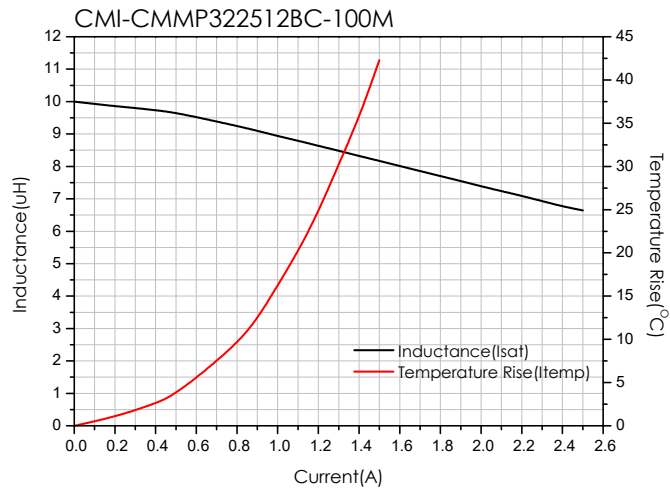
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- All specifications are subject to change without notice.
- Update date: 2026.09.21 (Rev.2.1)

## Electrical characteristics



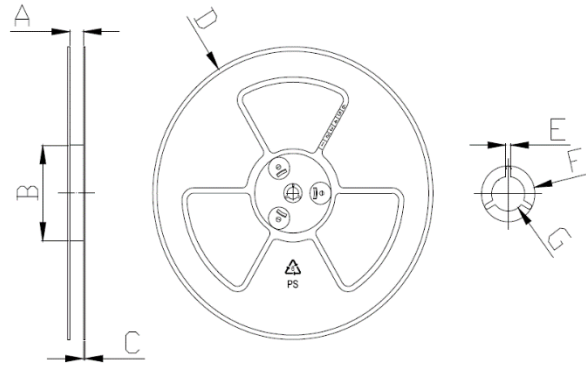
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## Packaging

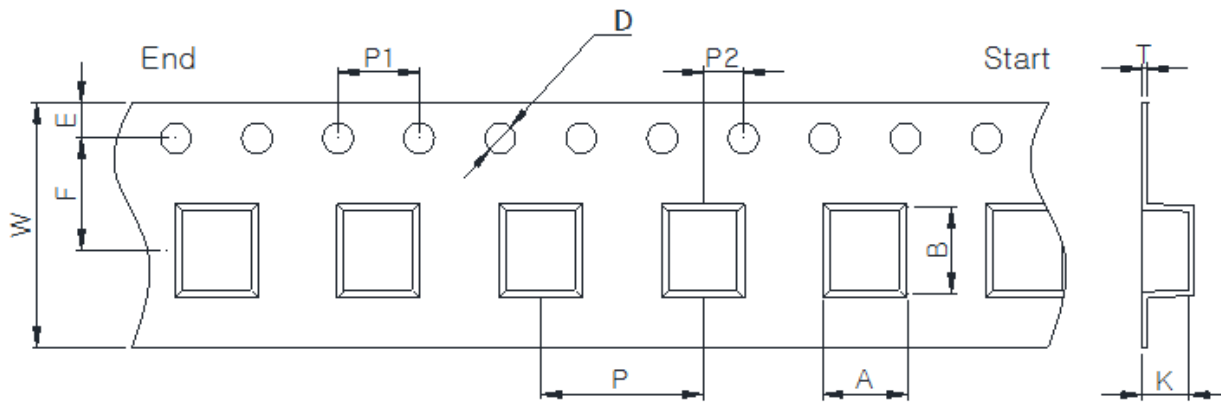
(1) Package quantity: 5,000 (pcs/reel)

(2) Reel Dimensions (unit:mm)



| A     | B     | C     | D     | E     | F     | G     |
|-------|-------|-------|-------|-------|-------|-------|
| 12.50 | 100.0 | 2.00  | 330.0 | 1.90  | 21.00 | 13.00 |
| +1.00 | +1.50 | +0.10 | +1.00 | +0.40 | +0.40 | +0.40 |
| -1.00 | -1.50 | -0.10 | -1.00 | -0.40 | -0.40 | -0.40 |

(3) Tape Dimensions



| W     | A     | B     | K     | E     | F     | P     | P1    | P2    | D     | T     |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 12.00 | 3.00  | 3.70  | 3.20  | 1.75  | 5.50  | 8.00  | 4.00  | 2.00  | 1.50  | 0.30  |
| +0.30 | +0.10 | +0.10 | +0.10 | +0.15 | +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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