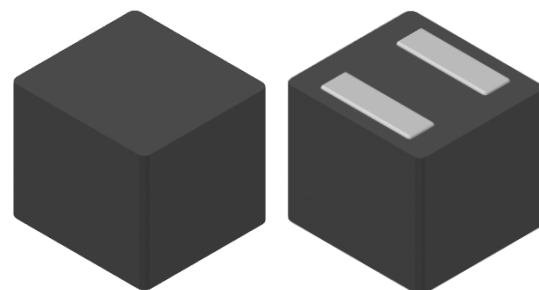


# CMI-CMMPF10100LH-SB SERIES

## Features

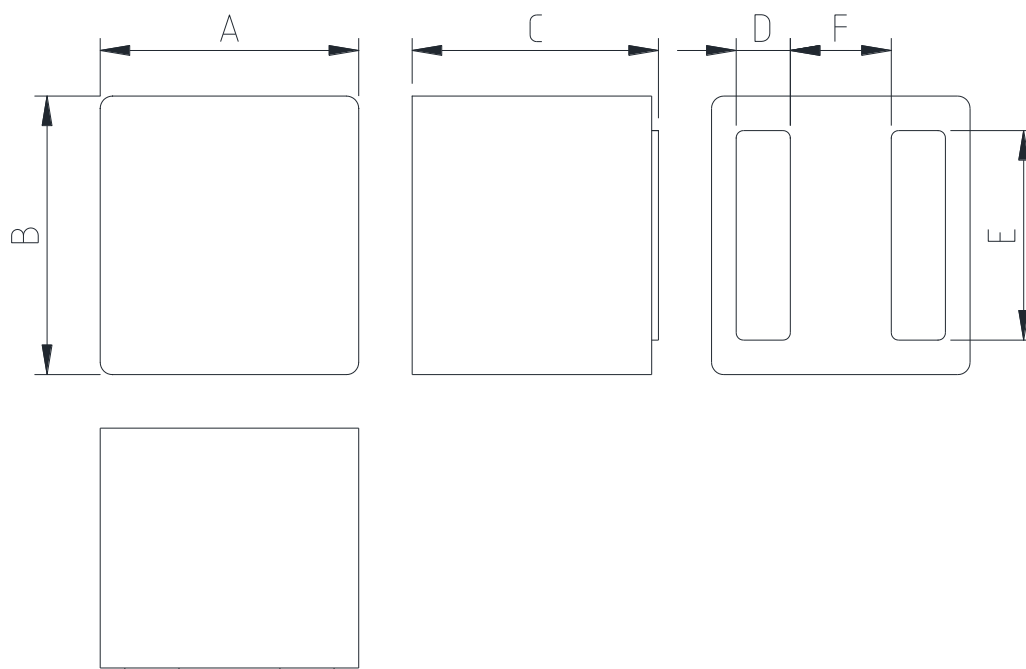
- ▶ Metal powder molding type for EMC protection.
- ▶ Lower DCR with applying flat wire.
- ▶ Available tape and reel for auto insertion.
- ▶ Halogen-Free.
- ▶ RoHS compliant.
- ▶ AEC-Q200 qualified.



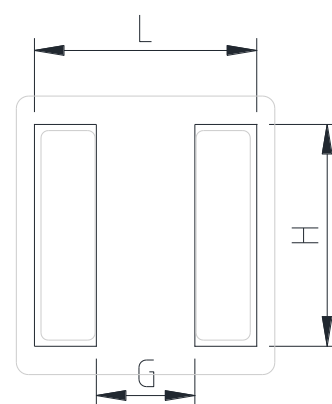
## Applications

- ▶ Equipment using for automobiles (ECM, Airbags, Headlights, Electronic Power steering, Motors, ABS, other)

## Dimension (Unit:mm)



## Land Pattern (Unit:mm)



| A         | B         | C         | D        | E        | F        |
|-----------|-----------|-----------|----------|----------|----------|
| 10.5 ±0.5 | 11.3 ±0.5 | 10.0 Max. | 2.2 ±0.2 | 7.5 Typ. | 4.1 Typ. |

| G    | H    | L    |
|------|------|------|
| 4.00 | 9.00 | 9.03 |

• You can also contact us by e-mail : [coilmaster@coilmaster.com](mailto:coilmaster@coilmaster.com)

- All specifications are subject to change without notice.
- Update date : 2024.05.06 (Rev.0.0)

## Regulation of part number

|     |   |      |       |    |   |     |   |   |    |
|-----|---|------|-------|----|---|-----|---|---|----|
| CMI | - | CMPF | 10100 | LH | - | R22 | M | - | SB |
| ①   |   | ②    | ③     | ④  |   | ⑤   | ⑥ |   | ⑦  |

- ① CoilMaster's initial
- ② Series Name : Car Metal Molded Power inductor Flat wire type.
- ③ Core Size (unit:mm)
- ④ Material
- ⑤ Typical inductance value (0.22uH)
- ⑥ Inductance tolerance ( $\pm 20\%$ )
- ⑦ Type (SB)

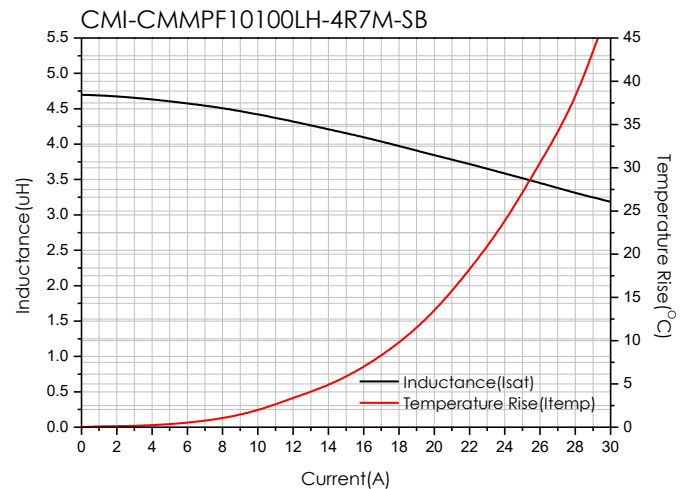
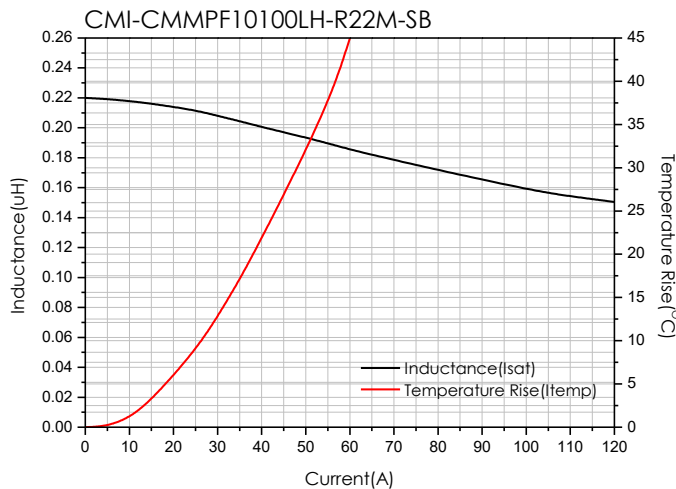
## Specifications

| Part Number             | Inductance (uH) $\pm 20\%$ | DCR(mohm) Max.(Typ.) | Isat(A) Max.(Typ.) | Itemp(A) Max.(Typ.) | Test Frequency (Hz) |
|-------------------------|----------------------------|----------------------|--------------------|---------------------|---------------------|
| CMI-CMPF10100LH-R22M-SB | 0.22                       | 0.5(0.4)             | 100(117)           | 52.8(55.5)          | 1M                  |
| CMI-CMPF10100LH-4R7M-SB | 4.7                        | 4.6(3.8)             | 23(28)             | 26.0(28.0)          | 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 ~ +165 °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.

## Electrical characteristics

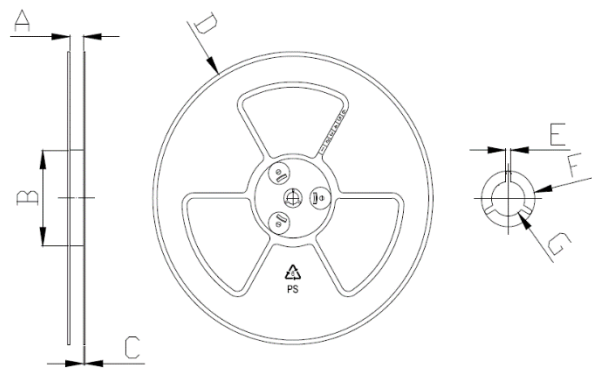


- You can also contact us by e-mail : [coilmaster@coilmaster.com](mailto:coilmaster@coilmaster.com)
- All specifications are subject to change without notice.
- Update date : 2024.05.06 (Rev.0.0)

Packaging

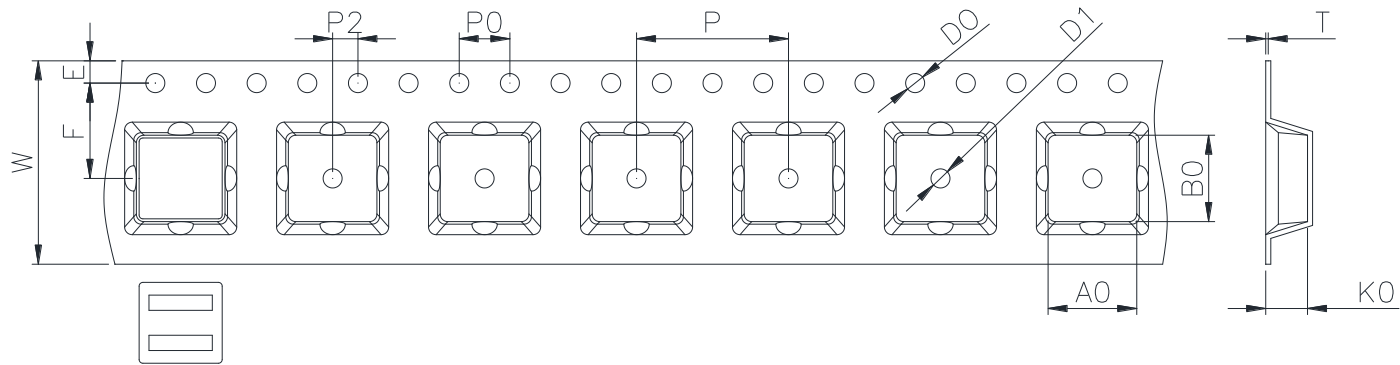
(1) Package quantity : 250 (pcs/reel)

(2) Reel Dimensions (unit:mm)



| A     | B     | C     | D     | E     | F     | G     |
|-------|-------|-------|-------|-------|-------|-------|
| 24.50 | 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     |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 24.00 | 12.00 | 10.80 | 10.20 | 1.75  | 11.50 | 20.00 | 4.00  | 2.00  | 1.50  | 0.50  |
| +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 |

Korea Sales Office (KOREA) +82)31-904-1444 H.K Sales Office (HONGKONG) +852)2711-5551  
China Sales Office (CHINA) +86)0758-683-1444 LA Sales Office (USA) +1)714-616-6989  
Hungary Sales office (EUROPE) +36)1-404-5832

• You can also contact us by e-mail : [coilmaster@coilmaster.com](mailto:coilmaster@coilmaster.com)

- All specifications are subject to change without notice.
- Update date : 2024.05.06 (Rev.0.0)

[www.coilmaster.com](http://www.coilmaster.com)