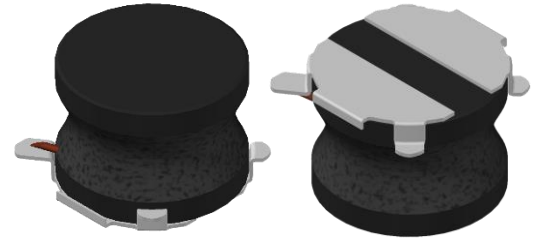


# CMI-DP7050NH-C SERIES

## Features

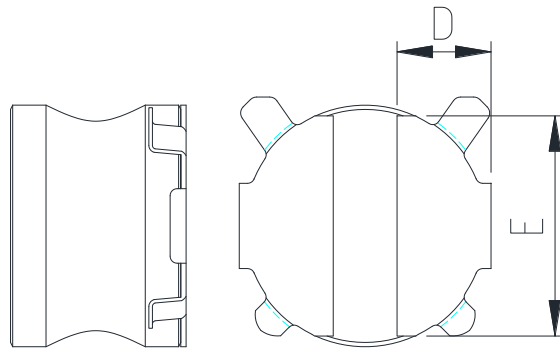
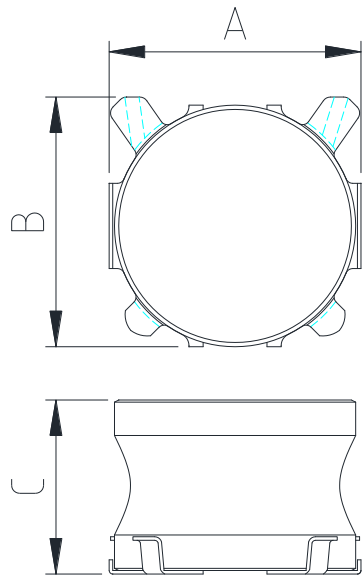
- ▶ SMD inductor.
- ▶ Resin shielded construction.
- ▶ Available tape and reel for auto insertion.
- ▶ RoHS compliant
- ▶ Halogen-Free



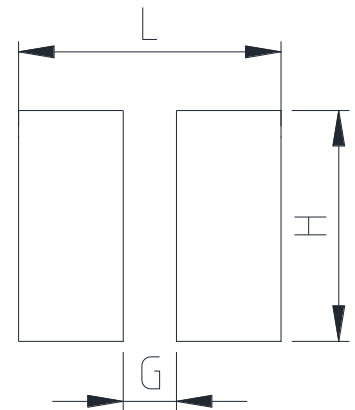
## Applications

- ▶ For small DC/DC converter (LCD/LED/OLED display, HDD, DSC etc).
- ▶ For Power supply circuits.

## Dimension (Unit:mm)

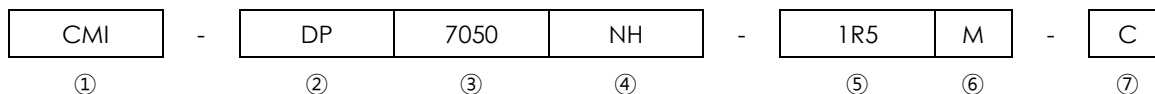


## Land Pattern (Unit:mm)



| A        | B        | C        | D         | E        | G   | H   | L   |
|----------|----------|----------|-----------|----------|-----|-----|-----|
| 7.0 ±0.3 | 7.0 ±0.3 | 5.0 Max. | 2.65 ±0.2 | 6.2 ±0.2 | 1.5 | 6.5 | 7.4 |

## Regulation of part number



- ① CoilMaster's initial
- ② Series Name : Drum core Pin type Power inductor
- ③ Core Size (unit:mm)
- ④ Type
- ⑤ Typical inductance value (1.5uH)
- ⑥ Inductance tolerance ( $\pm 20\%$ )
- ⑦ Revision (C)

## Specifications

| Part Number         | Inductance (uH) | Tolerance ( $\pm$ ) | DCR (mohm) Max.(Typ.) | Isat(A) Max.(Typ.) | Itemp(A) Max.(Typ.) | Test Frequency (Hz) |
|---------------------|-----------------|---------------------|-----------------------|--------------------|---------------------|---------------------|
| CMI-DP7050NH-1R5M-C | 1.5             | 20%                 | 16.8(14)              | 10.1(10.6)         | 8.4(9.1)            | 100k                |
| CMI-DP7050NH-1R8M-C | 1.8             | 20%                 | 18(15)                | 9.0(9.5)           | 7.9(8.6)            | 100k                |
| CMI-DP7050NH-2R2M-C | 2.2             | 20%                 | 19.2(16)              | 8.9(9.4)           | 7.7(8.4)            | 100k                |
| CMI-DP7050NH-3R3M-C | 3.3             | 20%                 | 24(20)                | 7.1(7.5)           | 6.2(6.8)            | 100k                |
| CMI-DP7050NH-4R7M-C | 4.7             | 20%                 | 30(25)                | 6.2(6.6)           | 6.1(6.6)            | 100k                |
| CMI-DP7050NH-6R8M-C | 6.8             | 20%                 | 36(30)                | 5.3(5.6)           | 5.1(5.7)            | 100k                |
| CMI-DP7050NH-100M-C | 10              | 20%                 | 50.4(42)              | 3.9(4.3)           | 3.8(4.3)            | 100k                |
| CMI-DP7050NH-150M-C | 15              | 20%                 | 72(60)                | 3.6(3.8)           | 3.2(3.6)            | 100k                |
| CMI-DP7050NH-220M-C | 22              | 20%                 | 96(80)                | 2.8(3.0)           | 2.9(3.1)            | 100k                |
| CMI-DP7050NH-680M-C | 68              | 20%                 | 264(220)              | 1.6(1.7)           | 1.8(1.9)            | 100k                |
| CMI-DP7050NH-101M-C | 100             | 20%                 | 462(385)              | 1.3(1.4)           | 1.4(1.5)            | 100k                |
| CMI-DP7050NH-221M-C | 220             | 20%                 | 792(660)              | 0.9(1.0)           | 1.1(1.2)            | 100k                |

- Isat: When based on the inductance change rate (approximately 20% 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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|                               |                   |                             |                 |
|-------------------------------|-------------------|-----------------------------|-----------------|
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- All specifications are subject to change without notice.
- Update date : 2015.11.19

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