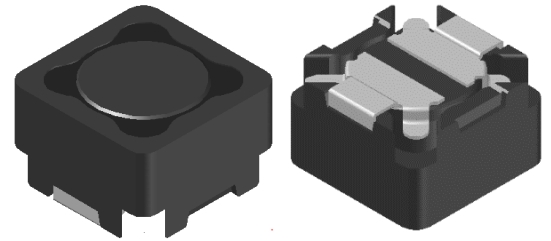


# CMI-SSP7045NH-B SERIES

## Features

- ▶ SMD inductor
- ▶ It corresponds to High current.
- ▶ Simple and Shield structure.
- ▶ Available tape and reel for auto insertion.
- ▶ RoHS compliant.
- ▶ Halogen Free.

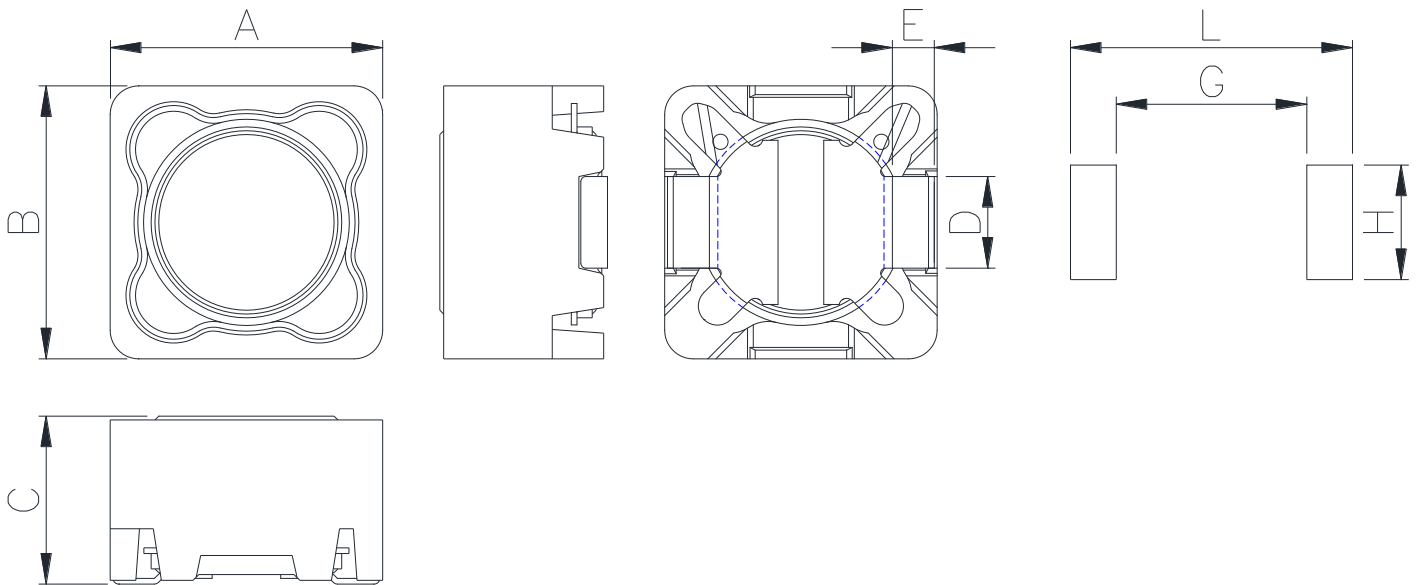


## Applications

- ▶ For small DC/DC converter (LCD/LED/OLED TV, PC, SETTOP etc).
- ▶ For Power supply circuits.

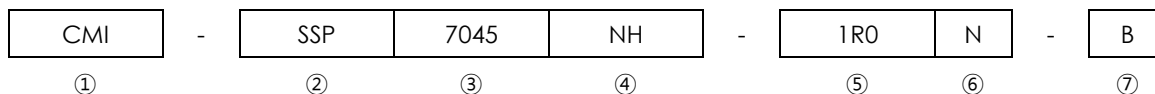
## Dimension (Unit:mm)

## Land Pattern (Unit:mm)



| A         | B         | C        | D        | E        | G   | H   | L   |
|-----------|-----------|----------|----------|----------|-----|-----|-----|
| 7.15 ±0.2 | 7.15 ±0.2 | 4.5 Max. | 2.4 ±0.2 | 1.1 ±0.2 | 5.0 | 3.0 | 7.4 |

## Regulation of part number



- ① CoilMaster's initial
- ② Series Name : Car Shielded core Square shape Pin type Power Inductor
- ③ Core Size (unit:mm)
- ④ Type
- ⑤ Typical inductance value (1.0uH)
- ⑥ Inductance tolerance (±30%)
- ⑦ Revision (B)

## Specifications

| Part Number          | Inductance (uH) | Tolerance (±) | DCR (mohm) Max.(Typ.) | Isat(A) Max. | Itemp(A) Max. | Test Frequency (Hz) |
|----------------------|-----------------|---------------|-----------------------|--------------|---------------|---------------------|
| CMI-SSP7045NH-1R0N-B | 1.0             | 30%           | 20.4(17)              | 5.00         |               | 100k                |
| CMI-SSP7045NH-3R3N-B | 3.3             | 30%           | 32.4(27)              | 4.50         |               | 100k                |
| CMI-SSP7045NH-4R7N-B | 4.7             | 30%           | 39.6(33)              | 4.00         |               | 100k                |
| CMI-SSP7045NH-6R8N-B | 6.8             | 30%           | 46.8(39)              | 3.00         |               | 100k                |
| CMI-SSP7045NH-100M-B | 10              | 20%           | 70.8(59)              | 2.80         |               | 100k                |
| CMI-SSP7045NH-220M-B | 22              | 20%           | 109.2(91)             | 2.00         |               | 100k                |
| CMI-SSP7045NH-330M-B | 33              | 20%           | 164.4(137)            | 1.60         |               | 100k                |
| CMI-SSP7045NH-470M-B | 47              | 20%           | 216(180)              | 1.30         |               | 100k                |
| CMI-SSP7045NH-680M-B | 68              | 20%           | 332.4(277)            | 1.10         |               | 100k                |
| CMI-SSP7045NH-101M-B | 100             | 20%           | 439.2(366)            | 0.95         |               | 100k                |
| CMI-SSP7045NH-221M-B | 220             | 20%           | 950.4(792)            | 0.65         |               | 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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▪ **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 : 2015.11.09

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