

# SMD Power Inductor

## CDMC8D28



### Description

- Metal compound molding type construction.
- Magnetically shielded.
- L × W × H: 9.5 × 8.7 × 3.0 mm Max.
- Product weight: 1.2 g (Ref.)
- Moisture Sensitivity Level: 1
- RoHS compliance.

### Environmental Data

- Operating temperature range: -40°C ~ +125°C (including coil's self temperature rise)
- Storage temperature range: -40°C ~ +85°C
- Solder reflow temperature: 260 °C peak.

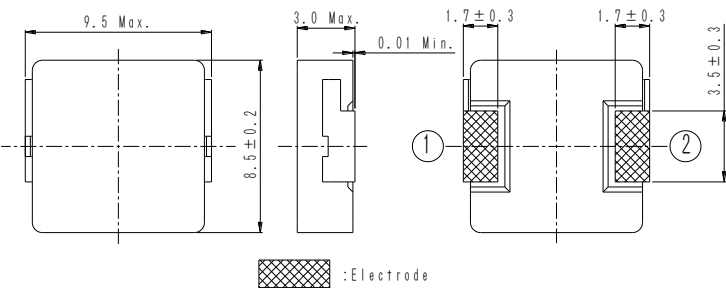
### Packaging

- Carrier tape and reel packaging.
- 13.0" diameter reel
- 1000pcs per reel

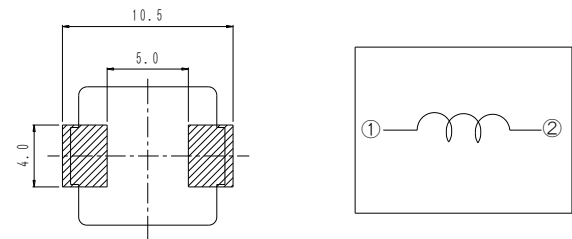
### Applications

- Ideally used in low voltage-high current laptop PC & sever power supply.

### Dimension - [mm]



### Land pattern and Schematics - [mm]



### Electrical Characteristics

| Part No.         | Stamp | Inductance (μH)<br>[Within] ※1 | D.C.R. (mΩ)<br>[Max.] (Typ.)<br>(at 20°C) | Saturation current<br>(A) (at 20°C) ※2 | Temperature<br>rise current<br>(A) ※3 |
|------------------|-------|--------------------------------|-------------------------------------------|----------------------------------------|---------------------------------------|
| CDMC8D28NP-R18MC | R18   | 0.18 ± 20%                     | 1.6(1.33)                                 | 28.7(35.9)                             | 25.8                                  |
| CDMC8D28NP-R39MC | R39   | 0.39 ± 20%                     | 2.8(2.32)                                 | 19.8(24.7)                             | 19.9                                  |
| CDMC8D28NP-R68MC | R68   | 0.68 ± 20%                     | 4.6(3.84)                                 | 16.0(20.0)                             | 15.4                                  |
| CDMC8D28NP-1R2MC | 1R2   | 1.2 ± 20%                      | 7.0(5.80)                                 | 12.2(15.3)                             | 12.9                                  |
| CDMC8D28NP-1R8MC | 1R8   | 1.8 ± 20%                      | 12.6(10.5)                                | 9.4(11.8)                              | 9.3                                   |
| CDMC8D28NP-2R2MC | 2R2   | 2.2 ± 20%                      | 16.1(13.4)                                | 8.8(11.0)                              | 8.1                                   |
| CDMC8D28NP-3R3MC | 3R3   | 3.3 ± 20%                      | 22.2(18.5)                                | 7.0(8.8)                               | 7.3                                   |
| CDMC8D28NP-3R9MC | 3R9   | 3.9 ± 20%                      | 24.1(20.1)                                | 6.4(8.0)                               | 7.1                                   |

※1. Measuring condition: at 1MHz.

※2. Saturation current: The value of D.C. current when the inductance decreases to 80% of it's nominal value.

※3. Temperature rise current: The value of D.C. current when the temperature rise is Δt=40°C (Ta=20°C).

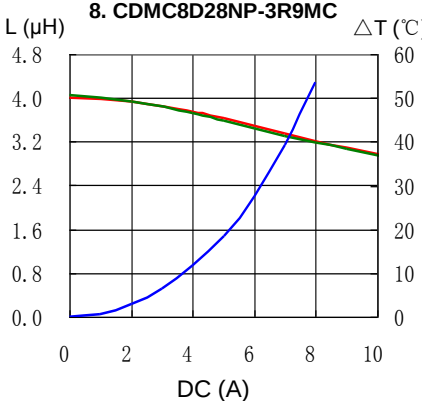
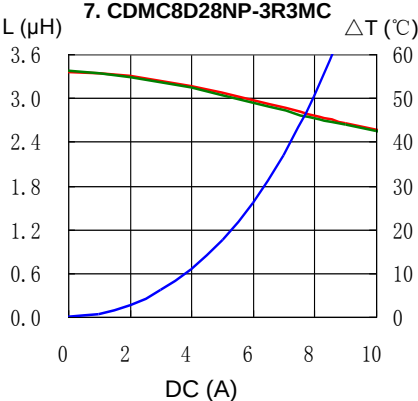
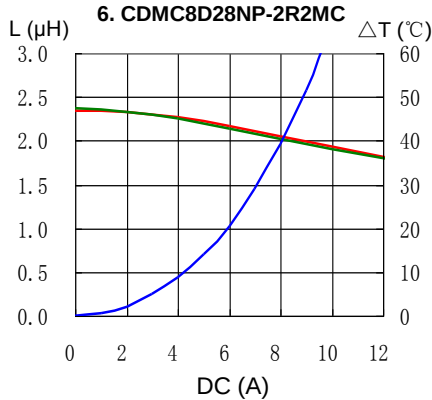
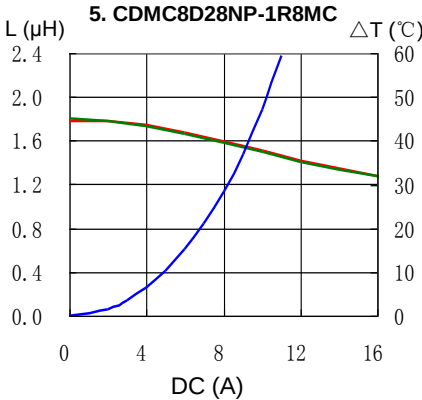
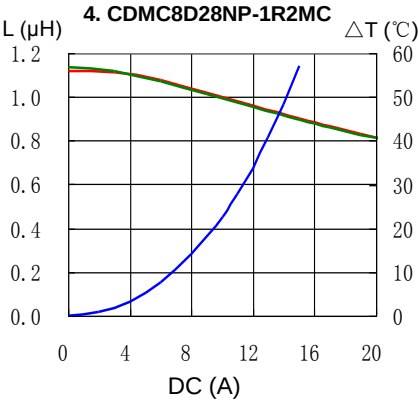
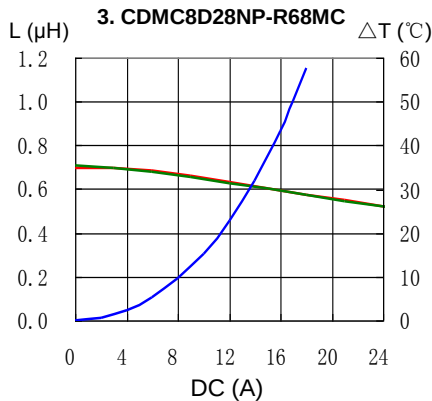
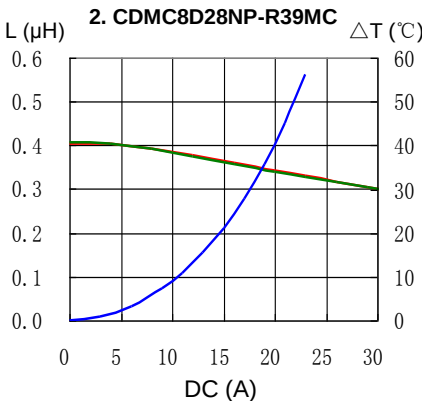
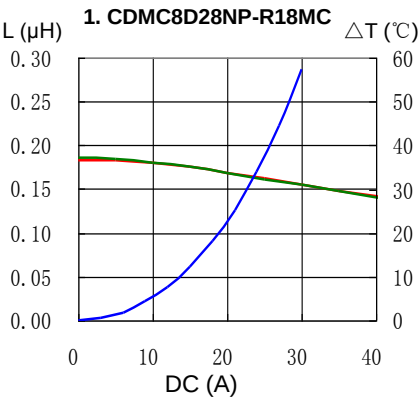
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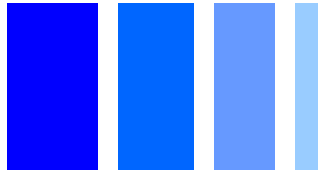


### Saturation Current & Temperature Rise Graph

— L (20°C) — L (125°C) —  $\Delta T$

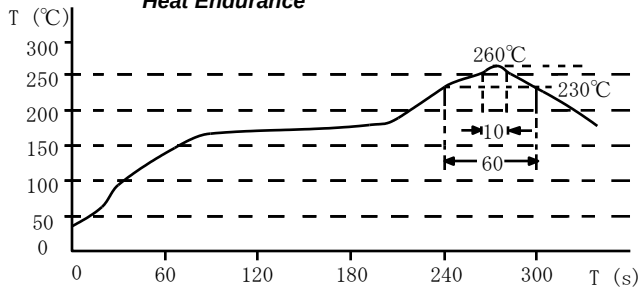


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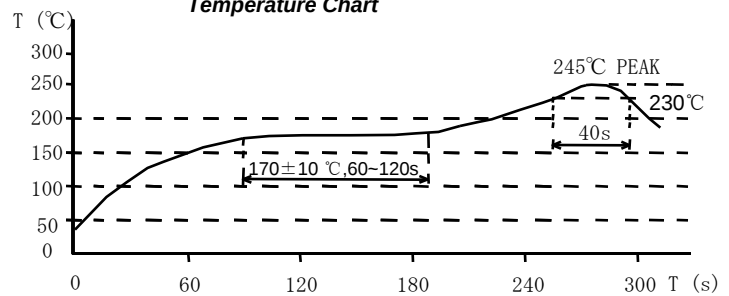


## Solder Reflow Condition

Heat Endurance



Temperature Chart



Please refer to the sales offices on our website - <http://www.sumida.com>

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