

SMD Power Inductor CDMC6D28



Halogen Free



Description

- Metal compound molding type construction.
- Magnetically shielded.
- L × W × H: 7.25 × 6.7 × 3.0 mm Max.
- Product weight: 0.8 g(Ref.)
- Moisture Sensitivity Level: 1
- RoHS compliance.
- Halogen Free available.

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.

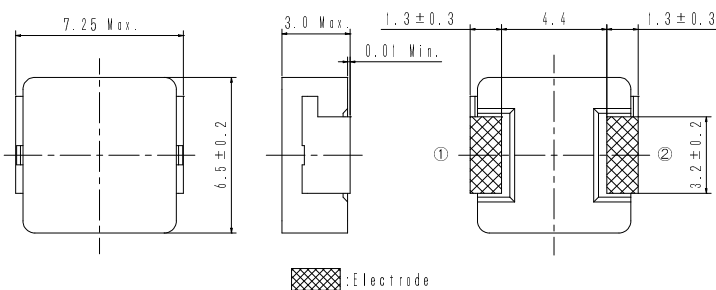
Packaging

- Carrier tape and reel packaging
- 11.8" diameter reel
- 1000pcs per reel

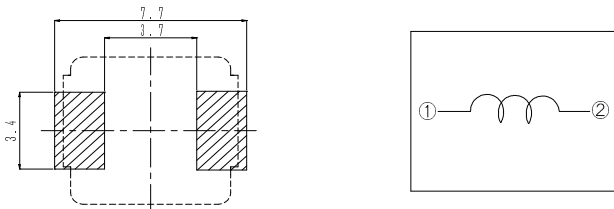
Applications

- 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) [Within] ※1 | D.C.R. (mΩ) Max. (Typ.) (at 20°C) | Saturation Current (A) (at 20°C) ※2 | Temperature rise current (A) ※3 |
|------------------|-------|--------------------------------|---|--|---------------------------------------|
| CDMC6D28NP-R20MC | R20 | 0.20 ± 20% | 2.5 (2.1) | 21.7 (27.2) | 17.4 (19.8) |
| CDMC6D28NP-R30MC | R30 | 0.30 ± 20% | 3.2 (2.7) | 15.4 (19.3) | 16.1 (18.2) |
| CDMC6D28NP-R47MC | R47 | 0.47 ± 20% | 4.2 (3.5) | 13.6 (17.0) | 14.0 (15.9) |
| CDMC6D28NP-R68MC | R68 | 0.68 ± 20% | 5.4 (4.5) | 11.3 (14.2) | 12.1 (13.7) |
| CDMC6D28NP-1R0MC | 1R0 | 1.0 ± 20% | 8.8 (7.3) | 8.8 (11.0) | 9.5 (10.8) |
| CDMC6D28NP-1R5MC | 1R5 | 1.5 ± 20% | 12.5 (10.4) | 7.3 (9.2) | 7.6 (8.6) |
| CDMC6D28NP-2R2MC | 2R2 | 2.2 ± 20% | 19.3 (16.1) | 6.0 (7.6) | 6.0 (6.8) |
| CDMC6D28NP-3R3MC | 3R3 | 3.3 ± 20% | 30.6 (25.5) | 5.0 (6.3) | 4.9 (5.5) |
| CDMC6D28NP-4R7MC | 4R7 | 4.7 ± 20% | 46.4 (38.7) | 4.3 (5.4) | 3.7 (4.2) |

※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.

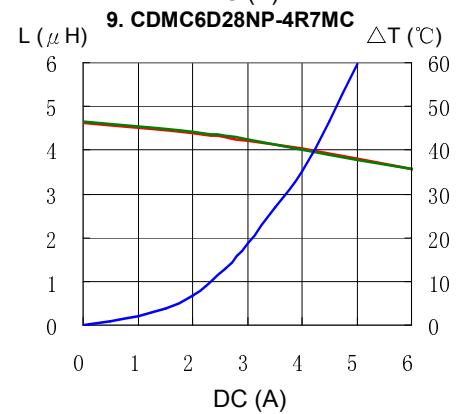
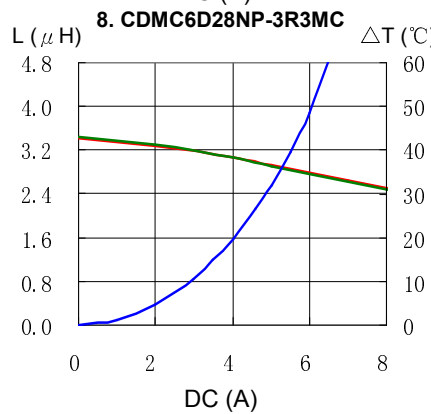
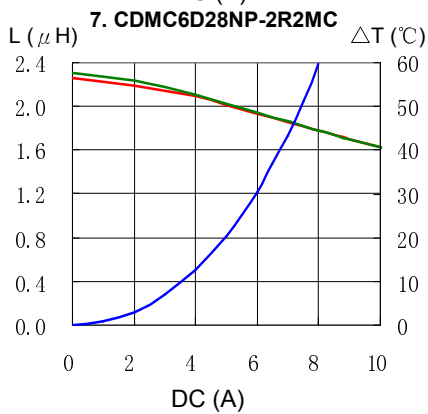
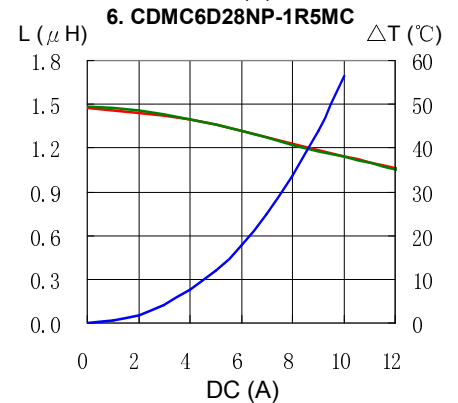
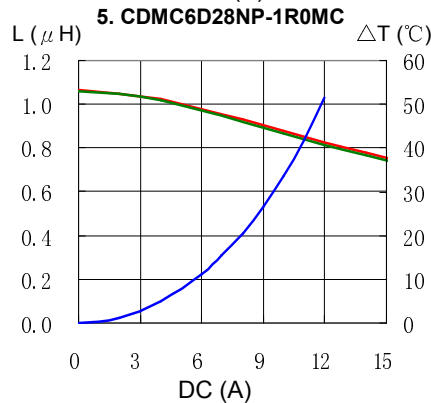
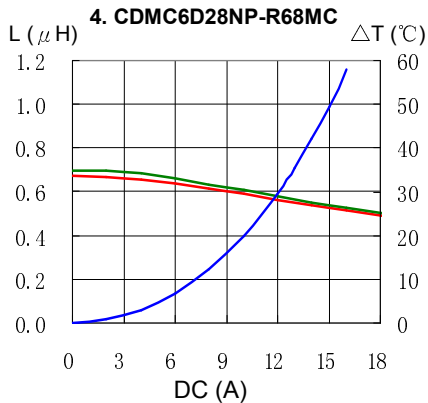
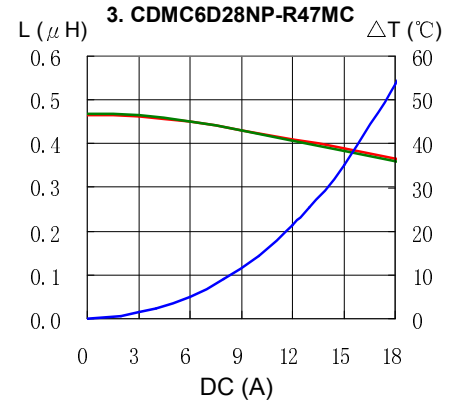
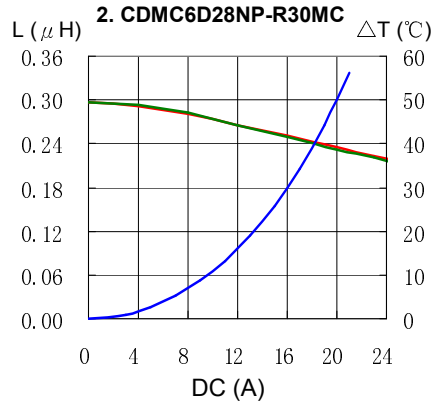
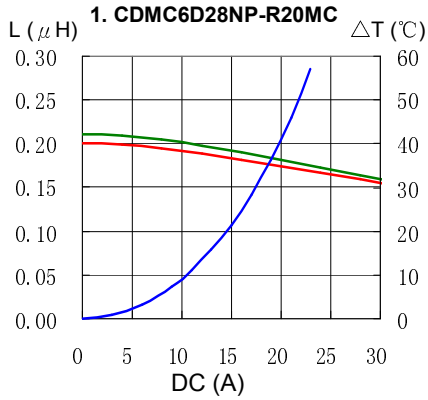
※3. Temperature rise current: The value of D.C. current when the temperature rise is Δt=40°C (Ta=20°C).

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Saturation Current & Temperature Rise Graph

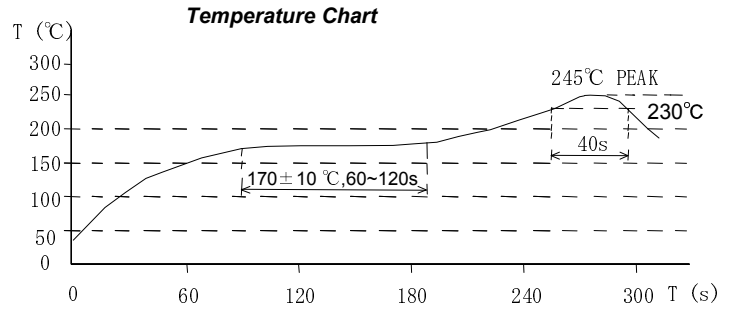
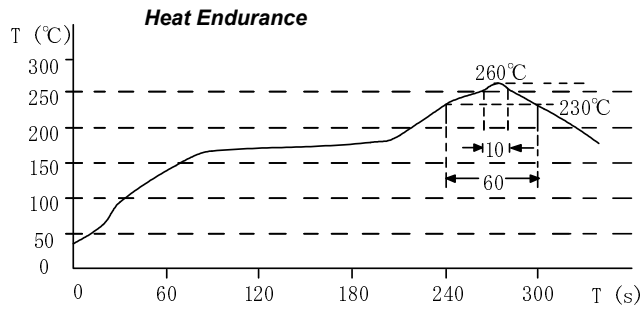
— L (20°C) — L (125°C) — ΔT



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Solder Reflow Condition



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

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