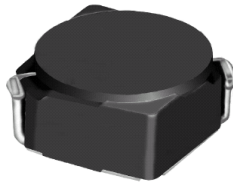


SMD Power Inductor CDRH5D28



Halogen Free



Description

- Ferrite drum core construction.
- Magnetically shielded.
- L × W × H: 6.0 × 6.0 × 3.0 mm Max.
- Product weight: 0.4g(Ref.)
- Moisture Sensitivity Level: 1
- RoHS compliance.
- Halogen Free available.

Environmental Data

- Operating temperature range: -40°C~+100°C (including coil's self temperature rise)
- Storage temperature range: -40°C~+100°C
- Solder reflow temperature: 260 °C peak.

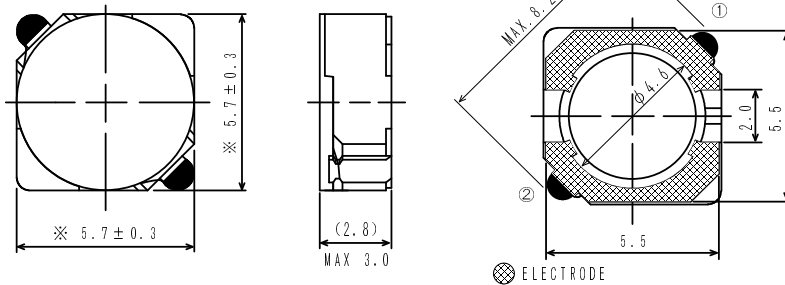
Packaging

- Carrier tape and reel packaging
- 13.0" diameter reel
- 2000pcs per reel

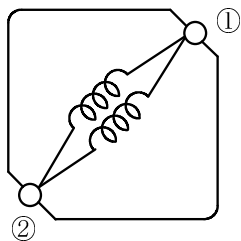
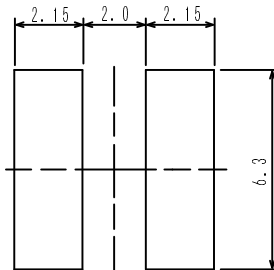
Applications

- Ideally used in Notebook PC, HDD, DSC/DVC, LCD TV, Game machine etc. as DC-DC converter inductors.

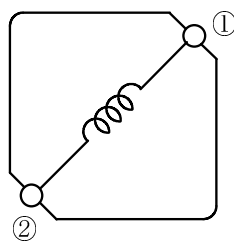
Dimension - [mm]



Land pattern and Schematics - [mm]

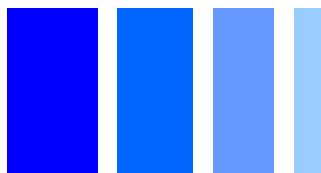


(2.5 μH ~ 8.2 μH)



(10 μH ~ 100 μH)

SMD Power Inductor CDRH5D28



Electrical Characteristics

| Part Name | Stamp | Inductance (μ H) [within] ※1 | D.C.R. (Ω) [Max.] (Typ.) (at 20°C) | Rated Current (A) ※2 |
|------------------|-------|---|---|-------------------------|
| CDRH5D28NP-2R5NC | 2R5 | 2.5 ± 30% | 18m (13m) | 2.60 |
| CDRH5D28NP-3R0NC | 3R0 | 3.0 ± 30% | 24m (18m) | 2.40 |
| CDRH5D28NP-4R2NC | 4R2 | 4.2 ± 30% | 31m (23m) | 2.20 |
| CDRH5D28NP-5R3NC | 5R3 | 5.3 ± 30% | 38m (28m) | 1.90 |
| CDRH5D28NP-6R2NC | 6R2 | 6.2 ± 30% | 45m (33m) | 1.80 |
| CDRH5D28NP-8R2NC | 8R2 | 8.2 ± 30% | 53m (39m) | 1.60 |
| CDRH5D28NP-100NC | 100 | 10 ± 30% | 65m (48m) | 1.30 |
| CDRH5D28NP-120NC | 120 | 12 ± 30% | 76m (56m) | 1.20 |
| CDRH5D28NP-150NC | 150 | 15 ± 30% | 103m (76m) | 1.10 |
| CDRH5D28NP-180NC | 180 | 18 ± 30% | 110m (82m) | 1.00 |
| CDRH5D28NP-220NC | 220 | 22 ± 30% | 122m (90m) | 0.90 |
| CDRH5D28NP-270NC | 270 | 27 ± 30% | 175m(130m) | 0.85 |
| CDRH5D28NP-330NC | 330 | 33 ± 30% | 189m(140m) | 0.75 |
| CDRH5D28NP-390NC | 390 | 39 ± 30% | 212m(157m) | 0.70 |
| CDRH5D28NP-470NC | 470 | 47 ± 30% | 250m(185m) | 0.62 |
| CDRH5D28NP-560NC | 560 | 56 ± 30% | 305m(226m) | 0.58 |
| CDRH5D28NP-680NC | 680 | 68 ± 30% | 355m(263m) | 0.52 |
| CDRH5D28NP-820NC | 820 | 82 ± 30% | 463m(343m) | 0.46 |
| CDRH5D28NP-101NC | 101 | 100 ± 30% | 520m(385m) | 0.42 |

※1. Inductance measuring condition: at 100kHz.

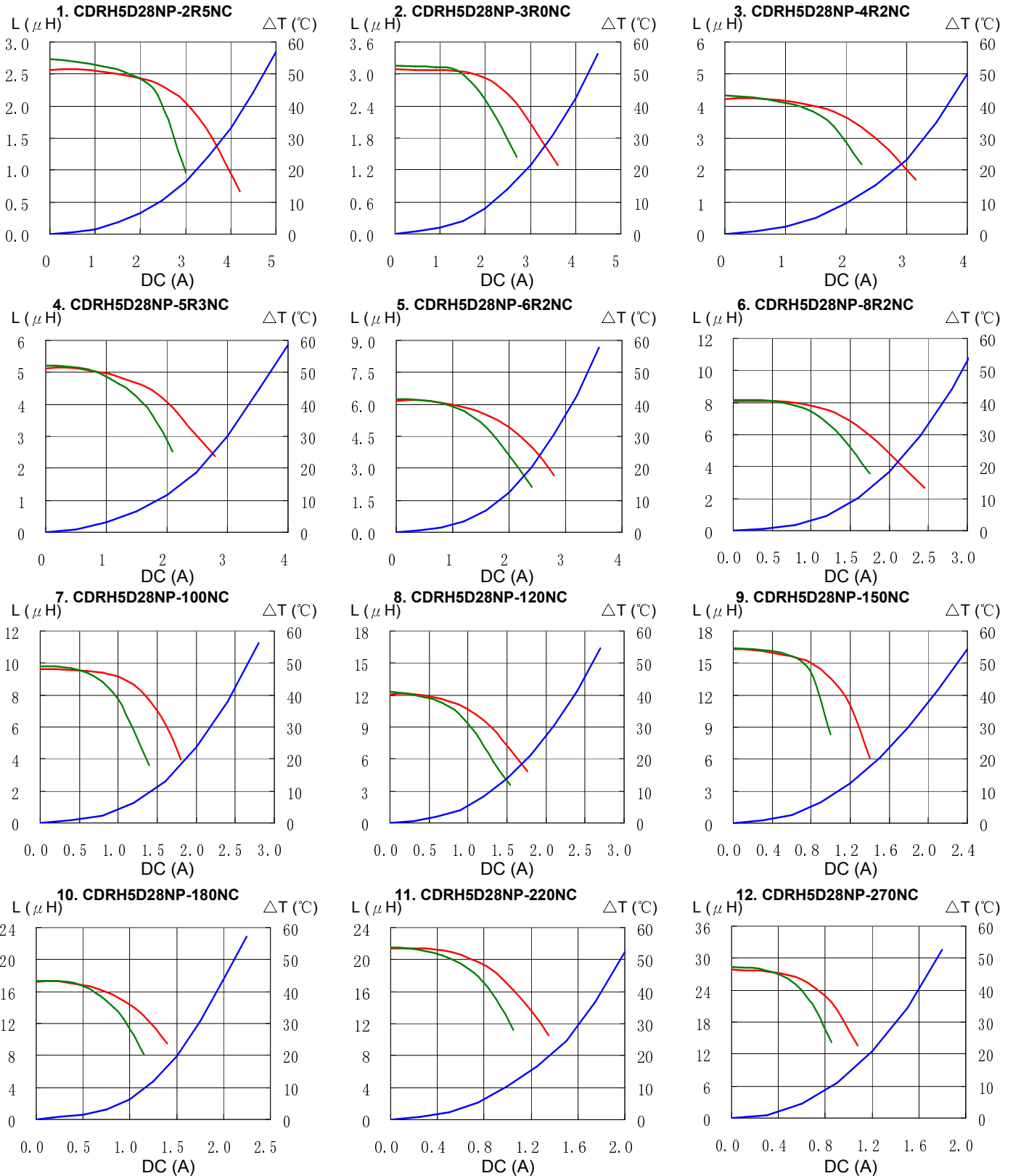
※2. Rated current: The DC current at which the inductance decreases to 65% of its nominal value or when $\Delta t = 30^\circ\text{C}$, whichever is lower ($T_a = 20^\circ\text{C}$).

SMD Power Inductor CDRH5D28



Saturation Current & Temperature Rise Graph

— L (20°C) — L (105°C) — ΔT



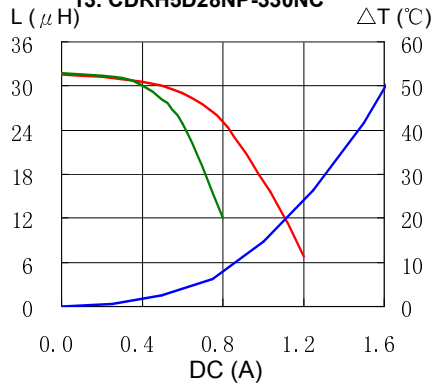
SMD Power Inductor CDRH5D28



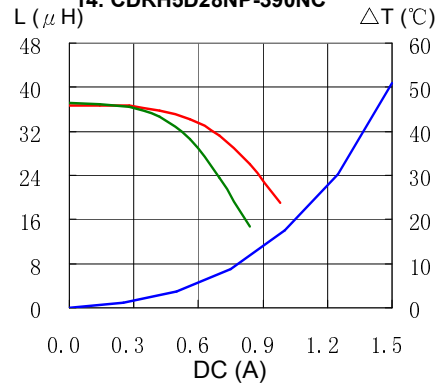
Saturation Current & Temperature Rise Graph

— L (20°C) — L (105°C) — ΔT

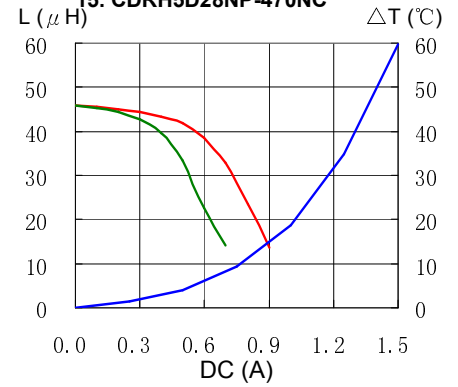
13. CDRH5D28NP-330NC



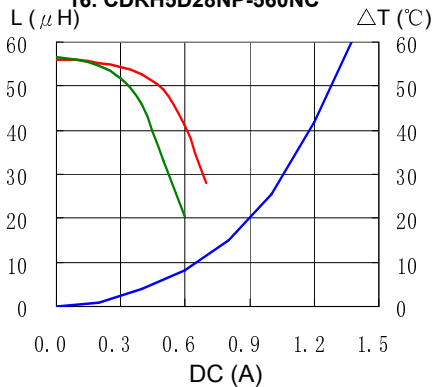
14. CDRH5D28NP-390NC



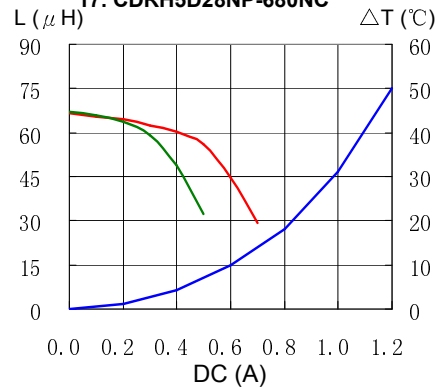
15. CDRH5D28NP-470NC



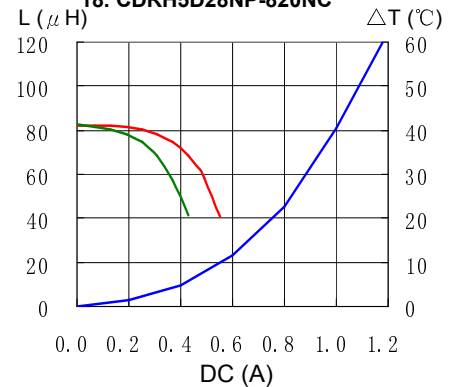
16. CDRH5D28NP-560NC



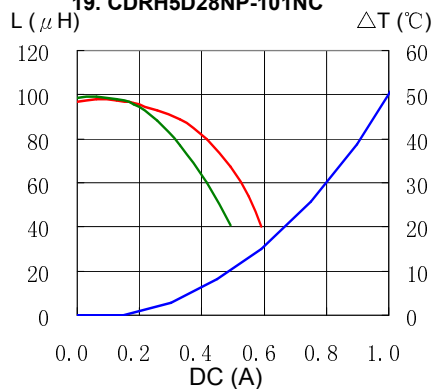
17. CDRH5D28NP-680NC



18. CDRH5D28NP-820NC



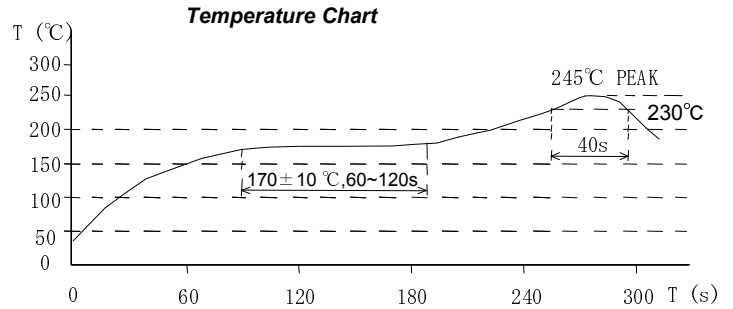
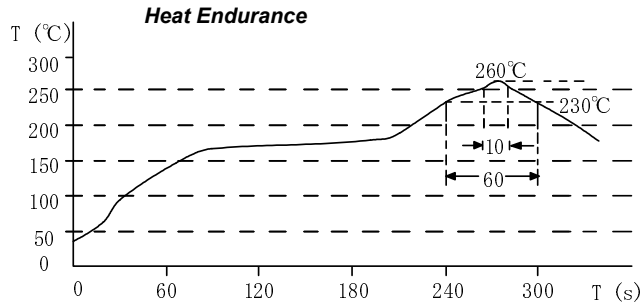
19. CDRH5D28NP-101NC



SMD Power Inductor CDRH5D28



Solder Reflow Condition



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