

SMD Power Inductor CDRH6D28



Halogen Free



Description

- Ferrite drum core construction.
- Magnetically shielded.
- L × W × H: 7.0 × 7.0 × 3.0 mm Max.
- Product weight: 0.44g(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.

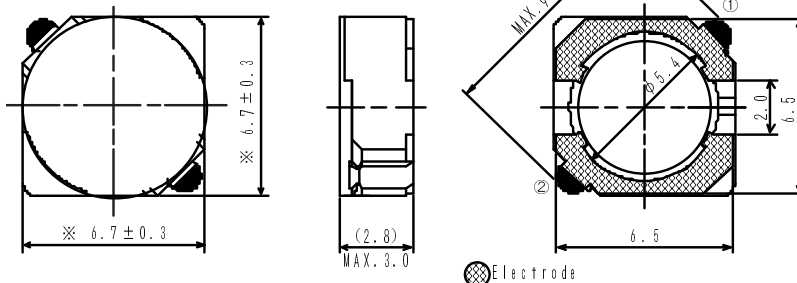
Packaging

- Carrier tape and reel packaging
- 13" diameter reel
- 1500pcs per reel

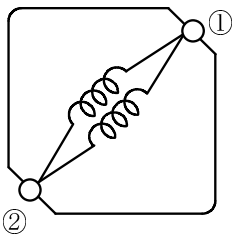
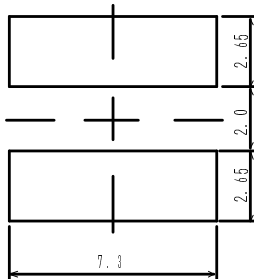
Applications

- Ideally used in MP3, PDA ,HDD,DSC/DVC, Notebook PC etc as DC-DC converter inductors.

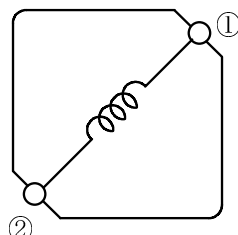
Dimension - [mm]



Land pattern and Schematics - [mm]

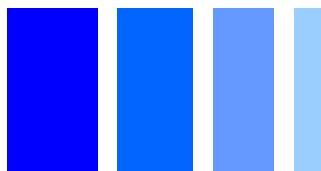


(3.0 μ H ~ 6.0 μ H)



(7.3 μ H ~ 100 μ H)

SMD Power Inductor CDRH6D28



Electrical Characteristics

| Part Name | Stamp | Inductance (μ H) [within] ※1 | D.C.R.(Ω) Max. (Typ.) (at 20°C) | Rated Current (A) ※2 |
|------------------|-------|---|--|-------------------------|
| CDRH6D28NP-3R0NC | 3R0 | 3.0 \pm 30% | 24m (18m) | 3.00 |
| CDRH6D28NP-3R9NC | 3R9 | 3.9 \pm 30% | 27m (20m) | 2.60 |
| CDRH6D28NP-5R0NC | 5R0 | 5.0 \pm 30% | 31m (23m) | 2.40 |
| CDRH6D28NP-6R0NC | 6R0 | 6.0 \pm 30% | 35m (26m) | 2.25 |
| CDRH6D28NP-7R3NC | 7R3 | 7.3 \pm 30% | 54m (40m) | 2.10 |
| CDRH6D28NP-8R6NC | 8R6 | 8.6 \pm 30% | 58m (43m) | 1.85 |
| CDRH6D28NP-100NC | 100 | 10 \pm 30% | 65m (48m) | 1.70 |
| CDRH6D28NP-120NC | 120 | 12 \pm 30% | 70m (52m) | 1.55 |
| CDRH6D28NP-150NC | 150 | 15 \pm 30% | 84m (62m) | 1.40 |
| CDRH6D28NP-180NC | 180 | 18 \pm 30% | 95m (70m) | 1.32 |
| CDRH6D28NP-220NC | 220 | 22 \pm 30% | 128m (95m) | 1.20 |
| CDRH6D28NP-270NC | 270 | 27 \pm 30% | 142m(105m) | 1.05 |
| CDRH6D28NP-330NC | 330 | 33 \pm 30% | 165m(122m) | 0.97 |
| CDRH6D28NP-390NC | 390 | 39 \pm 30% | 210m(156m) | 0.86 |
| CDRH6D28NP-470NC | 470 | 47 \pm 30% | 238m(176m) | 0.80 |
| CDRH6D28NP-560NC | 560 | 56 \pm 30% | 277m(205m) | 0.73 |
| CDRH6D28NP-680NC | 680 | 68 \pm 30% | 304m(225m) | 0.65 |
| CDRH6D28NP-820NC | 820 | 82 \pm 30% | 390m(290m) | 0.60 |
| CDRH6D28NP-101NC | 101 | 100 \pm 30% | 535m(397m) | 0.54 |

※1. Inductance measuring condition: at 100kHz.

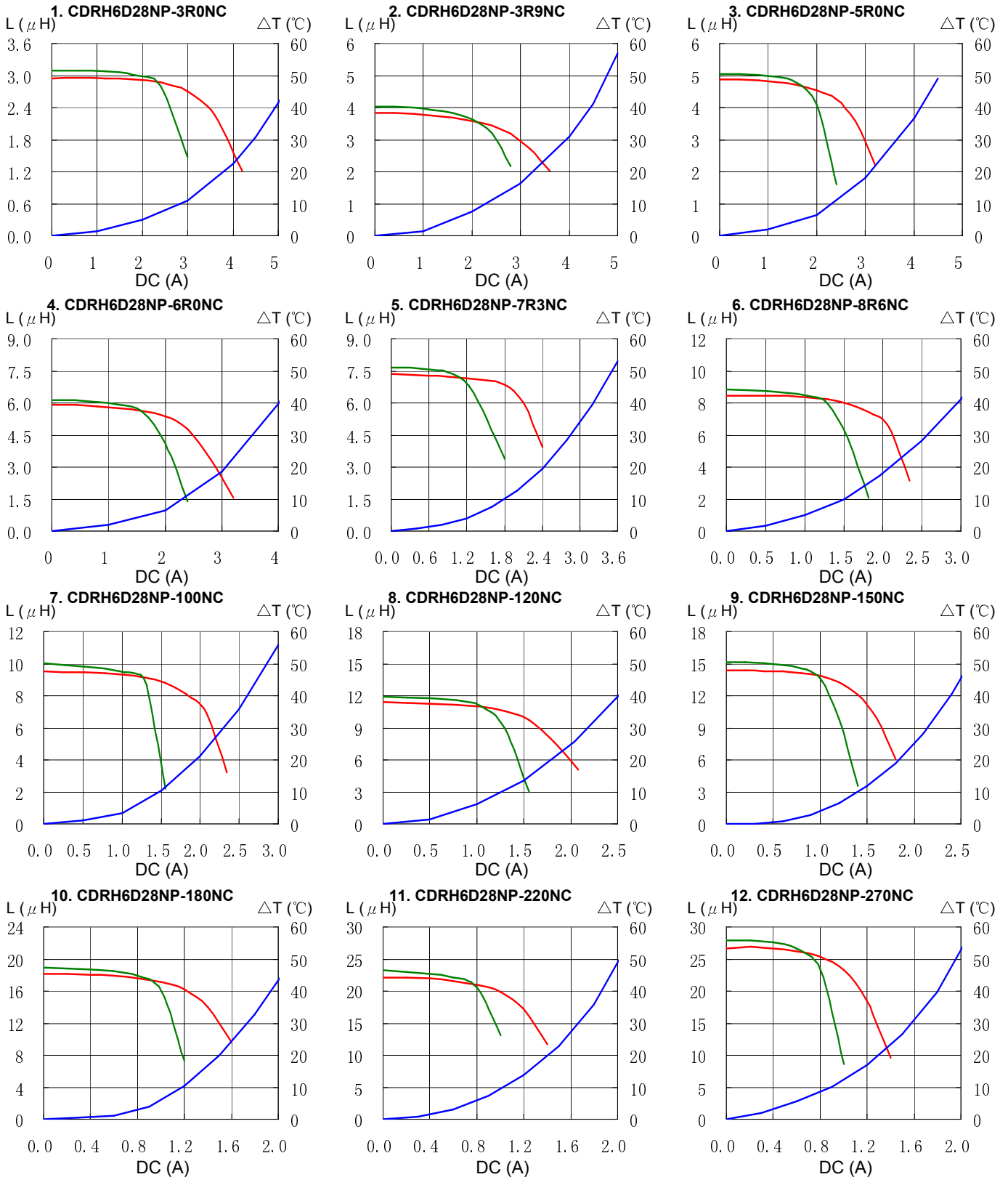
※2. Rated current: The DC current at which the inductance decreases to 65% of it's nominal value or when $\Delta t=30^{\circ}\text{C}$, whichever is lower ($T_a=20^{\circ}\text{C}$).

SMD Power Inductor CDRH6D28



Saturation Current & Temperature Rise Graph

— L (20°C) — L (105°C) — ΔT



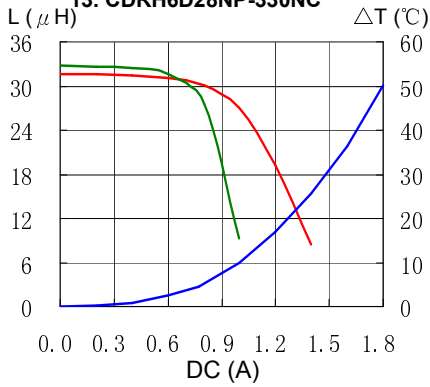
SMD Power Inductor CDRH6D28



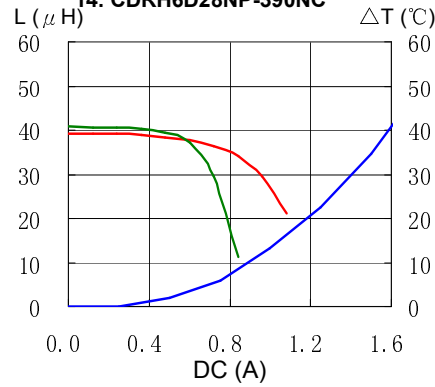
Saturation Current & Temperature Rise Graph

— L (20°C) — L (105°C) — ΔT

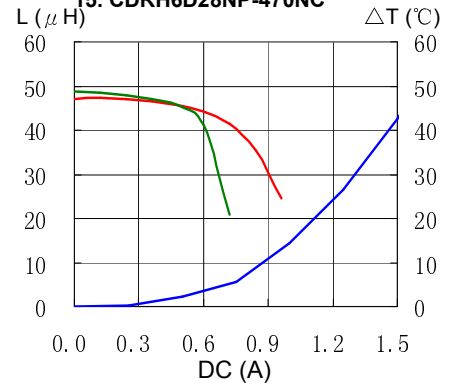
13. CDRH6D28NP-330NC



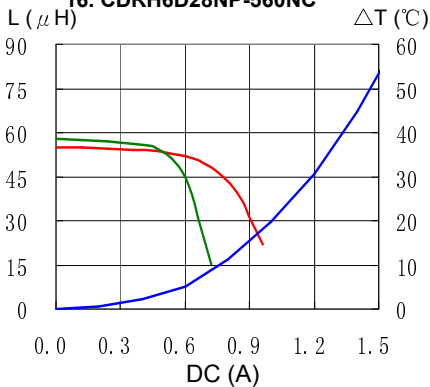
14. CDRH6D28NP-390NC



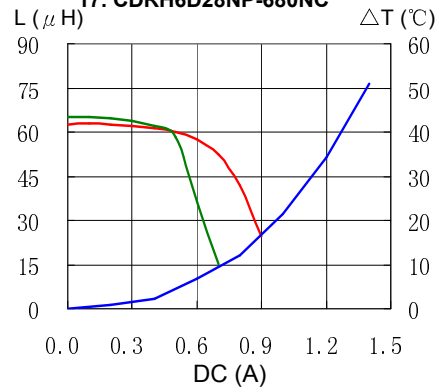
15. CDRH6D28NP-470NC



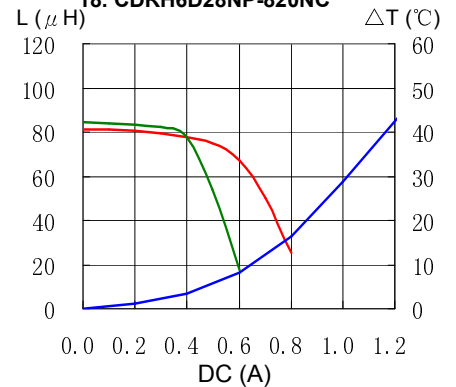
16. CDRH6D28NP-560NC



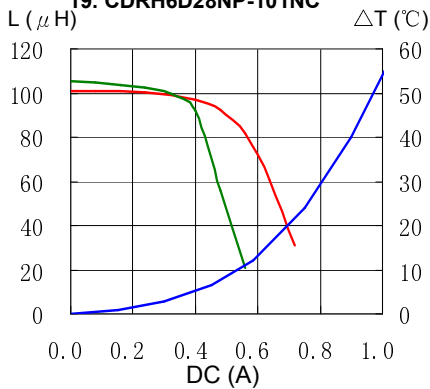
17. CDRH6D28NP-680NC



18. CDRH6D28NP-820NC



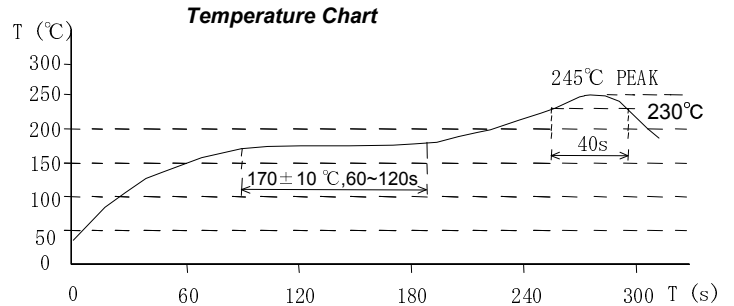
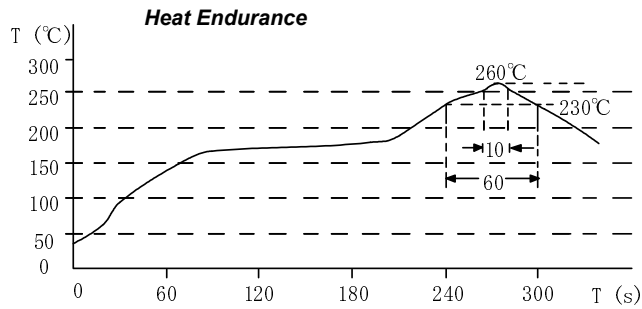
19. CDRH6D28NP-101NC



SMD Power Inductor CDRH6D28



Solder Reflow Condition



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

Hong Kong

Tel.+852-2880-6688
FAX.+852-2565-9600
sales@hk.sumida.com

Tokyo

Tel.+81-3-5202-7112
FAX.+81-3-5202-7105
sales@jp.sumida.com

Chicago

Tel.+1-847-545-6700
FAX. +1-847-545-6720
sales@us.sumida.com

Shanghai

Tel.+86-021-5836-3299
FAX.+86-021-5836-3266
shanghai.sales@cn.sumida.com

Seoul

Tel.+82-2-6237-0777
FAX.+82-2-6237-0778
sales@kr.sumida.com

Oberzell

Tel.+49-8591-937-0
FAX. +49-8591-937-103
contact@sumida-eu.com

Shenzhen

Tel.+86-755-8291-0228
FAX.+86-755-8291-0338
shenzhen.sales@cn.sumida.com

Singapore

Tel.+65-6296-3388
FAX.+65-6296-3390
sales@sg.sumida.com

Neumarkt

Tel.+49-9181-4509-110
FAX. +49-9181-4509-310
infocomp@eu.sumida.com

Taipei

Tel.+886-2-8751-2737
FAX.+886-2-8751-2738
sales@tw.sumida.com

San Jose

Tel.+1-408-321-9660
FAX.+1-408-321-9308
sales@us.sumida.com