

SMD Power Inductor CDRH5D28R



Description

- Ferrite drum core construction.
- Magnetically shielded.
- L × W × H: 6.3 × 6.2 × 3.0 mm Max.
- Product weight: 0.4g(Ref.)
- Moisture Sensitivity Level: 1
- RoHS compliance.

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.

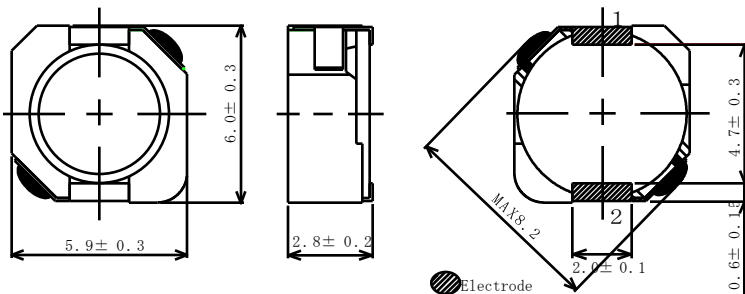
Packaging

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

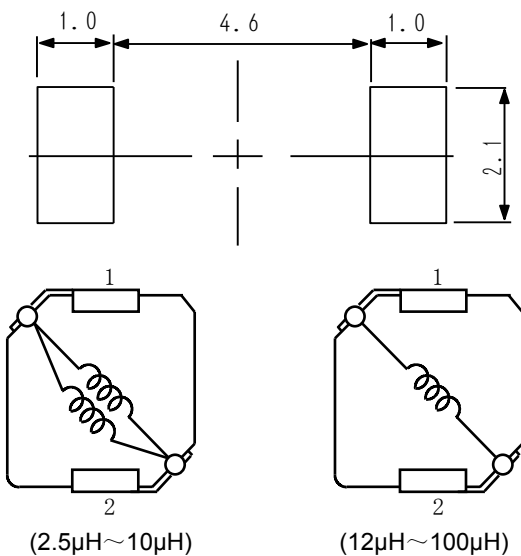
Applications

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

Dimension - [mm]



Land pattern and Schematics - [mm]



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CDRH5D28R



Electrical Characteristics

| Part Name | Stamp | Inductance (μH) [within] ※1 | D.C.R. (m Ω) [Max.] (Typ.) (at 20°C) | Rated Current (A) ※2 |
|-------------------|-------|--|--|-------------------------|
| CDRH5D28RNP-2R5NC | 2R5 | 2.5 \pm 30% | 17.6(13) | 2.60 |
| CDRH5D28RNP-3R3NC | 3R3 | 3.3 \pm 30% | 20.3(15) | 2.30 |
| CDRH5D28RNP-4R0NC | 4R0 | 4.0 \pm 30% | 27.0(20) | 2.10 |
| CDRH5D28RNP-5R0NC | 5R0 | 5.0 \pm 30% | 31.1(23) | 1.85 |
| CDRH5D28RNP-6R0NC | 6R0 | 6.0 \pm 30% | 41.9(31) | 1.70 |
| CDRH5D28RNP-8R0NC | 8R0 | 8.0 \pm 30% | 49.9(37) | 1.50 |
| CDRH5D28RNP-100NC | 100 | 10 \pm 30% | 54.0(40) | 1.30 |
| CDRH5D28RNP-120NC | 120 | 12 \pm 30% | 71.6(53) | 1.20 |
| CDRH5D28RNP-150NC | 150 | 15 \pm 30% | 82.4(61) | 1.10 |
| CDRH5D28RNP-180NC | 180 | 18 \pm 30% | 101.5(75) | 1.05 |
| CDRH5D28RNP-220NC | 220 | 22 \pm 30% | 119.0(88) | 0.95 |
| CDRH5D28RNP-270NC | 270 | 27 \pm 30% | 146.0(108) | 0.85 |
| CDRH5D28RNP-330NC | 330 | 33 \pm 30% | 182.5(135) | 0.76 |
| CDRH5D28RNP-390NC | 390 | 39 \pm 30% | 209.5(155) | 0.68 |
| CDRH5D28RNP-470NC | 470 | 47 \pm 30% | 229.5(170) | 0.60 |
| CDRH5D28RNP-560NC | 560 | 56 \pm 30% | 305.0(226) | 0.55 |
| CDRH5D28RNP-680NC | 680 | 68 \pm 30% | 351.0(260) | 0.48 |
| CDRH5D28RNP-820NC | 820 | 82 \pm 30% | 418.5(310) | 0.45 |
| CDRH5D28RNP-101NC | 101 | 100 \pm 30% | 520.0(385) | 0.40 |

※1. Inductance measuring condition: at 100kHz.

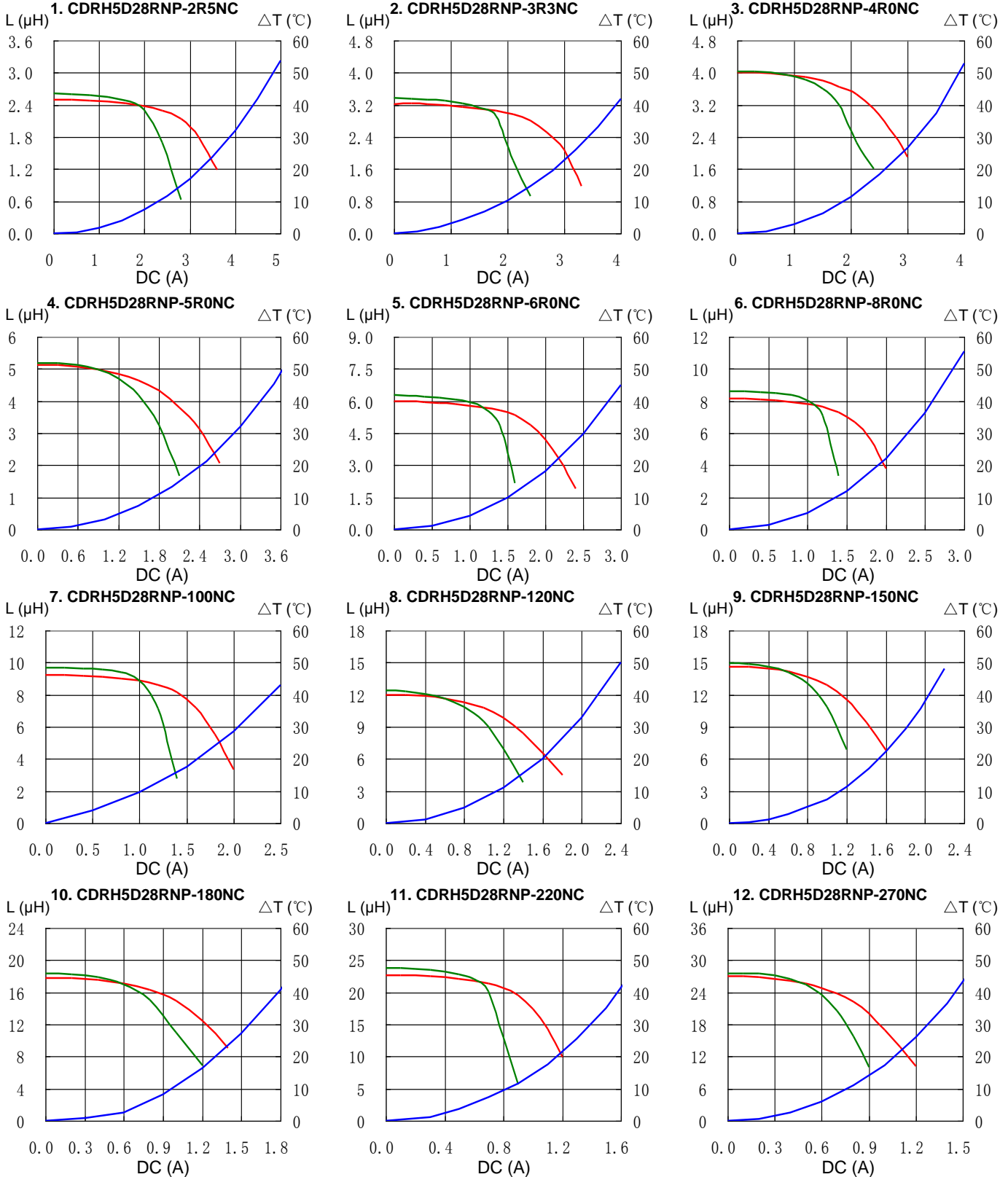
※2. Rated current: The DC current at which the inductance decreases to 65% of it's nominal value or when $\Delta t=30^\circ\text{C}$, whichever is lower ($T_a=20^\circ\text{C}$).

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Saturation Current & Temperature Rise Graph

— L (20°C) — L (105°C) — ΔT

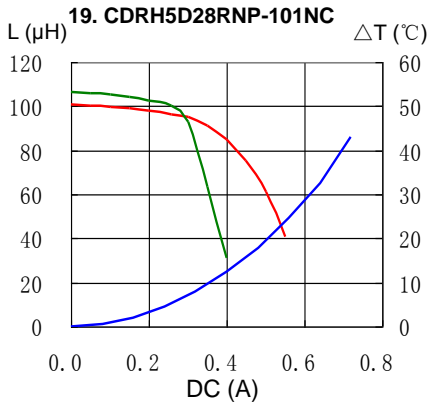
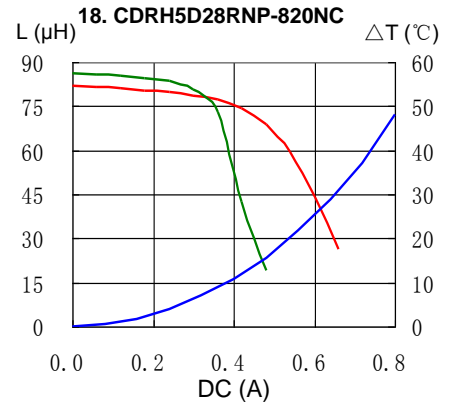
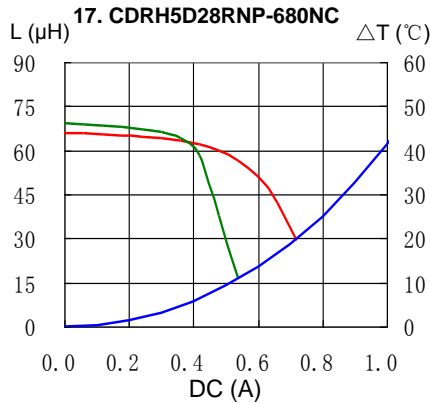
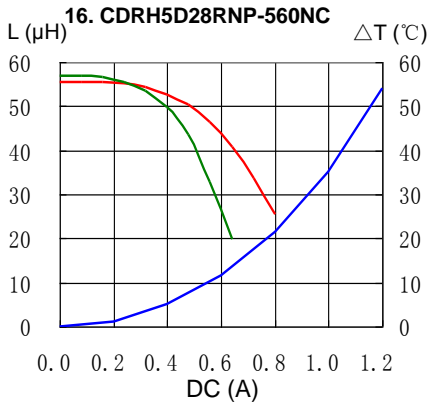
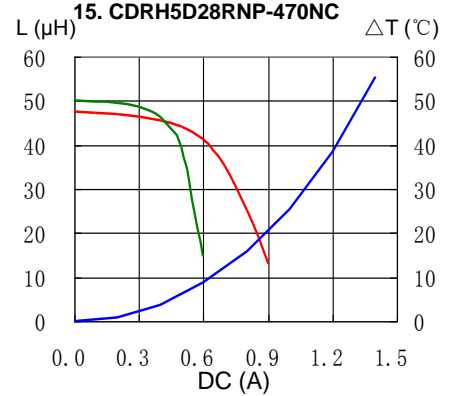
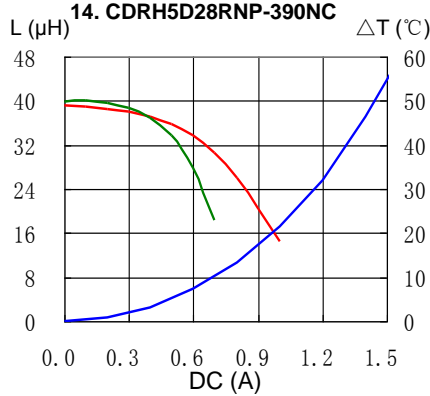
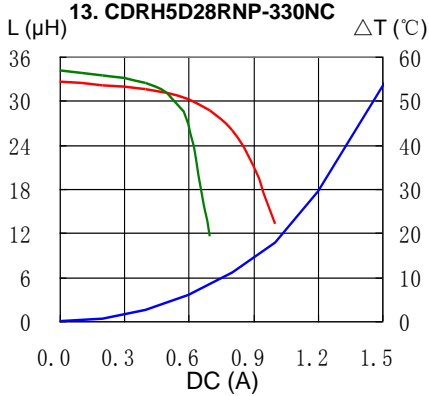


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Saturation Current & Temperature Rise Graph

— L (20°C) — L (105°C) — ΔT



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Solder Reflow Condition

Heat Endurance



Temperature Chart



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

Hong Kong

Tel.+852-2880-6781
FAX.+852-2565-9600
sales@hk.sumida.com

Saitama(Japan)

Tel.+81-48-691-7300
FAX.+81-48-691-7340
sales@jp.sumida.com

Chicago

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

Shanghai

Tel.+86-21-5836-3299
FAX.+86-21-5836-3266
shanghai.sales@cn.sumida.com

Seoul

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

Obernzell

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

Shenzhen

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

Singapore

Tel.+65-6296-3388
FAX.+65-6841-4426
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