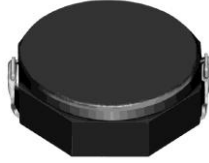
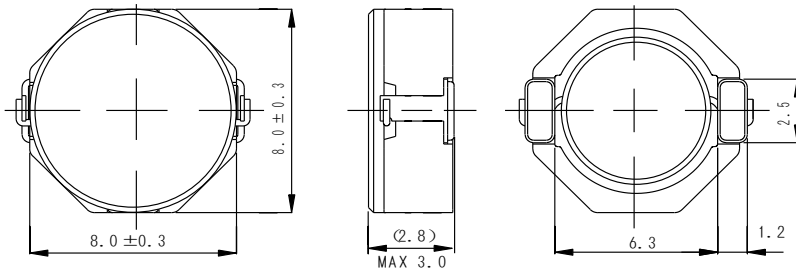


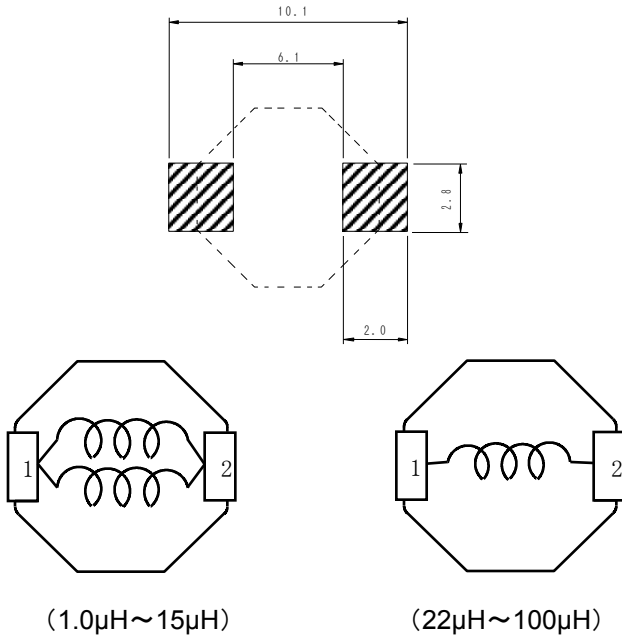
SMD Power Inductor CDRH8D28



Dimension - [mm]



Land pattern and Schematics - [mm]



Description

- Ferrite drum core construction.
- Magnetically shielded.
- L × W × H: 8.3 × 8.3 × 3.0 mm Max.
- Product weight: 0.57g(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" diameter reel
- 1000pcs per reel

Applications

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



Electrical Characteristics

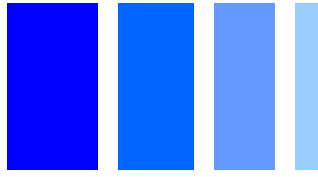
| Part Name | Stamp | Inductance (μH) [within] ※1 | D.C.R. (m Ω) Max. (Typ.) (at 20°C) | Saturation Current (A) ※2 | Temperature Rise Current (A) ※3 |
|------------------|-------|--|--|---------------------------------|---------------------------------------|
| CDRH8D28NP-1R0NC | 1R0 | 1.0 \pm 30% | 11.0(8) | 6.50 | 7.00 |
| CDRH8D28NP-2R5NC | 2R5 | 2.5 \pm 30% | 15.6(12) | 4.50 | 6.40 |
| CDRH8D28NP-3R3NC | 3R3 | 3.3 \pm 30% | 18.2(14) | 4.00 | 6.00 |
| CDRH8D28NP-4R7NC | 4R7 | 4.7 \pm 30% | 24.7(19) | 3.40 | 4.50 |
| CDRH8D28NP-7R3NC | 7R3 | 7.3 \pm 30% | 39.0(30) | 2.80 | 3.40 |
| CDRH8D28NP-100NC | 100 | 10 \pm 30% | 47.0(36) | 2.50 | 3.20 |
| CDRH8D28NP-150NC | 150 | 15 \pm 30% | 69.0(53) | 1.90 | 2.35 |
| CDRH8D28NP-220NC | 220 | 22 \pm 30% | 99.0(76) | 1.60 | 1.85 |
| CDRH8D28NP-330NC | 330 | 33 \pm 30% | 156(120) | 1.30 | 1.45 |
| CDRH8D28NP-470NC | 470 | 47 \pm 30% | 195(150) | 1.15 | 1.30 |
| CDRH8D28NP-680NC | 680 | 68 \pm 30% | 286(220) | 0.92 | 0.98 |
| CDRH8D28NP-101NC | 101 | 100 \pm 30% | 430(330) | 0.75 | 0.80 |

※1. Inductance measuring conditions at 100kHz.

※2. Saturation current: The DC current at which the inductance decreases to 65% of its nominal value.

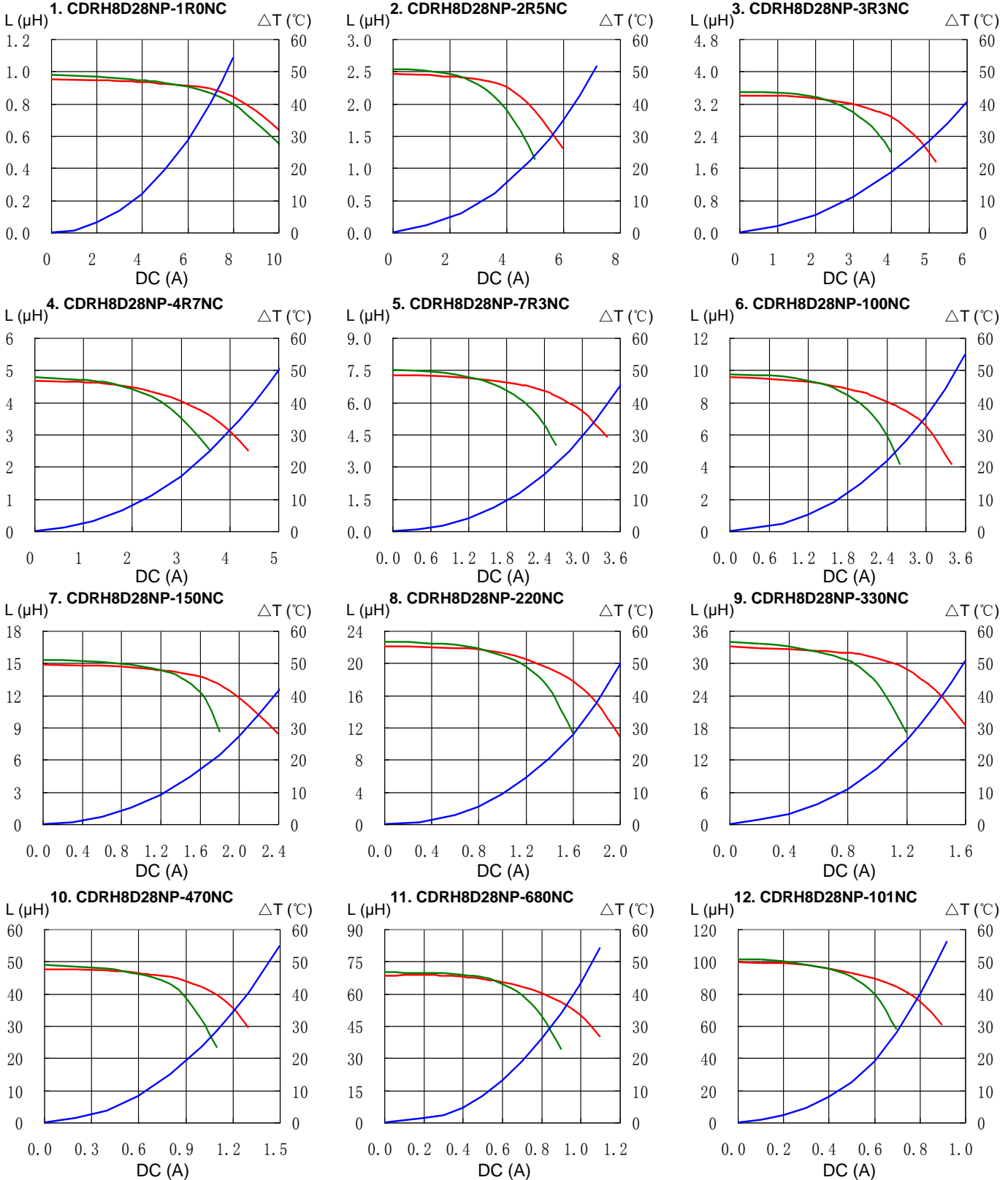
※3. Temperature rise current: The DC current at which the temperature rise is $\Delta t=40^{\circ}\text{C}$. ($T_a=20^{\circ}\text{C}$)

SMD Power Inductor CDRH8D28



Saturation Current & Temperature Rise Graph

— L (20°C) — L (105°C) — ΔT

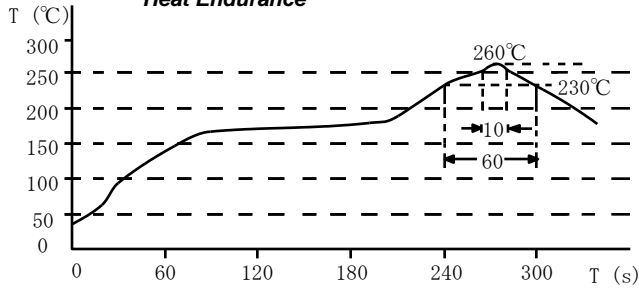


SMD Power Inductor CDRH8D28

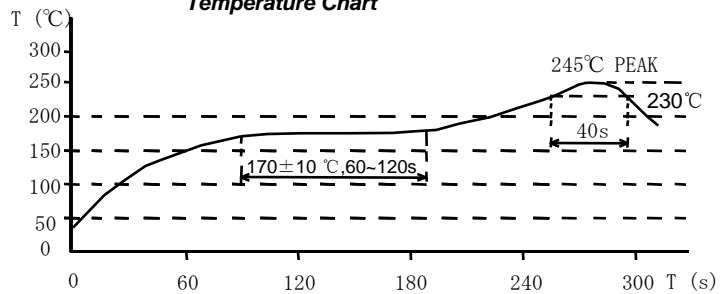


Solder Reflow Condition

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

X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for [Fixed Inductors](#) category:

Click to view products by [Sumida](#) manufacturer:

Other Similar products are found below :

[CR43NP-680KC](#) [CR54NP-820KC](#) [CR54NP-8R5MC](#) [CTX32CT-100](#) [70F224AI](#) [MGDQ4-00004-P](#) [MHL1ECTTP18NJ](#) [MHL1JCTTD12NJ](#)
[PE-51506NL](#) [PE-53601NL](#) [PE-53602NL](#) [PE-53630NL](#) [PE-53824SNLT](#) [PE-92100NL](#) [PG0434.801NLT](#) [PG0936.113NLT](#) [9310-16](#) [PM06-2N7](#) [PM06-39NJ](#) [A01TK](#) [1206CS-471XJ](#) [HC2-2R2TR](#) [HC2LP-R47-R](#) [HC3-2R2-R](#) [1206CS-151XG](#) [RCH664NP-140L](#) [RCH664NP-4R7M](#)
[RCH8011NP-221L](#) [RCP1317NP-332L](#) [RCP1317NP-391L](#) [RCR1010NP-470M](#) [RCR110DNP-331L](#) [DH2280-4R7M](#) [DS1608C-106](#) [ASPI-4020HI-R10M-T](#) [B10TJ](#) [B82477P4333M](#) [B82498B3101J000](#) [B82498B3680J000](#) [ELJ-RE27NJF2](#) [1812CS-153XJ](#) [1812CS-183XJ](#) [1812CS-223XJ](#) [1812LS-104XJ](#) [1812LS-105XJ](#) [1812LS-124XJ](#) [1812LS-154XJ](#) [1812LS-223XJ](#) [1812LS-224XJ](#) [1812LS-563XJ](#)