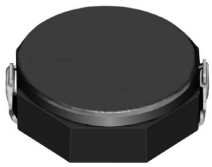
# SMD Power Inductor
## CDRH8D28

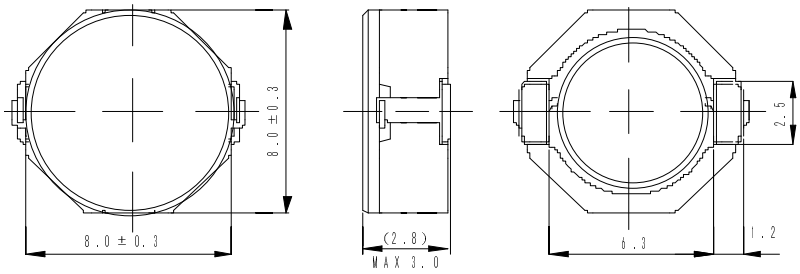
RoHS

Halogen Free

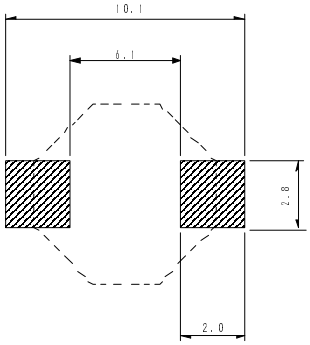


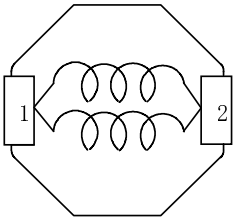
### Description
- Ferrite drum core construction.
- Magnetically shielded.
- L × W × H:8.3 × 8.3 × 3.0 mm Max.
- Product weight:  0.57g(Ref.)
- Moisture Sensitivity Level: 1
- RoHS compliance.
- Halogen Free available.

### Dimension - [mm]

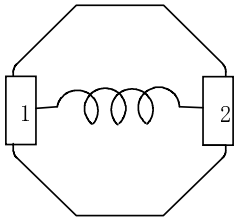



### Land pattern and Schematics - [mm]




（1.0μH～15μH）




（22μH～100μH）

### Environmental Data
- Operating temperature range: -40℃~+100℃ (including coil's self temperature rise)
- Storage temperature range: -40℃～+100℃
- Solder reflow temperature: 260 ℃ peak.

### Packaging
- Carrier tape and reel packaging
- 12.9"diameter reel
- 1000pcs per reel

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



Revised: 7-Jan-14

## Electrical Characteristics

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

※1. Inductance measuring conditions at 100kHz.

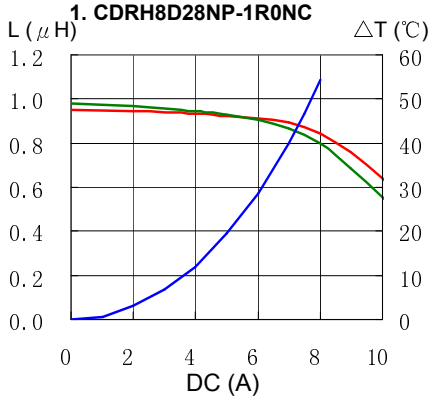
※2. Saturation current: The DC current at which the inductance decreases to 65% of its nominal value.

※3. Temperature rise current: The DC current at which the temperature rise is △t=40℃.(Ta=20℃)

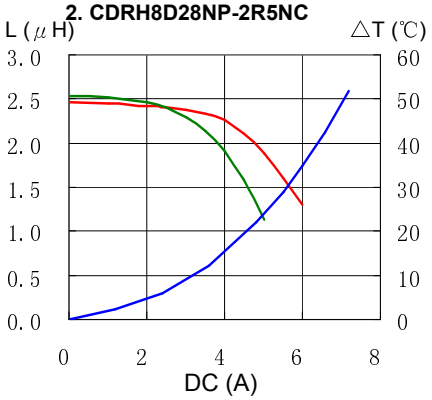
## Saturation Current & Temperature Rise Graph

L (20℃) L (105℃) △T

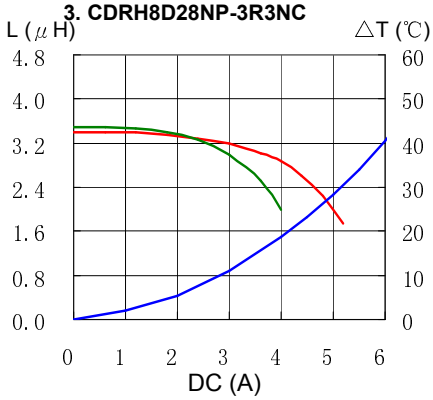
1. CDRH8D28NP-1R0NC



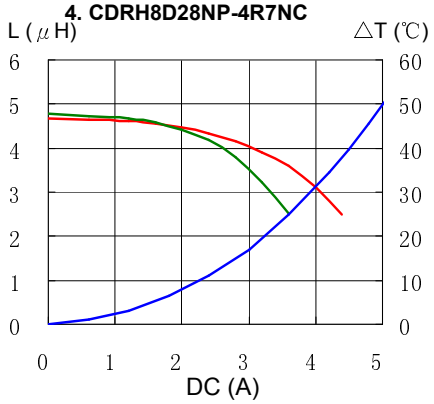

2. CDRH8D28NP-2R5NC



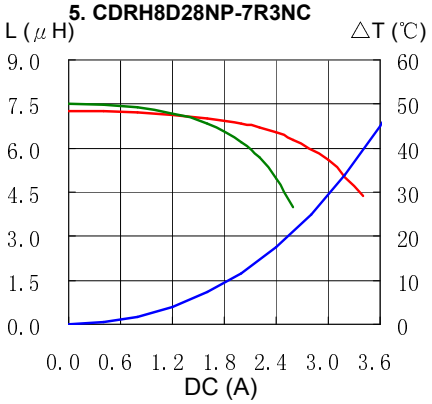

3. CDRH8D28NP-3R3NC



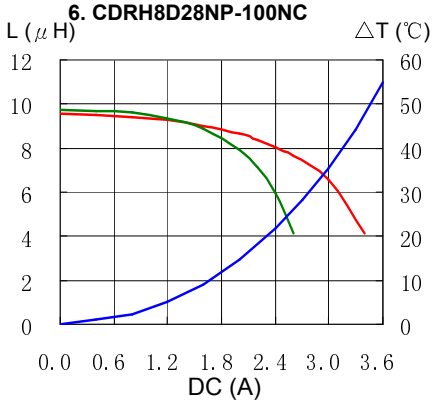

4. CDRH8D28NP-4R7NC



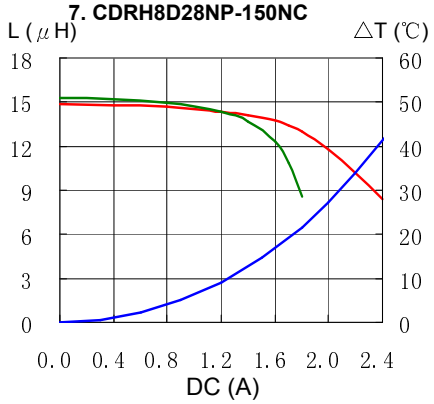

5. CDRH8D28NP-7R3NC



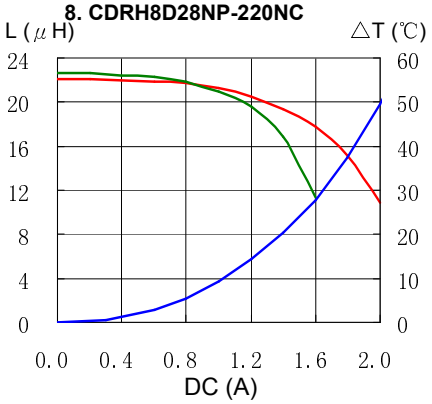

6. CDRH8D28NP-100NC



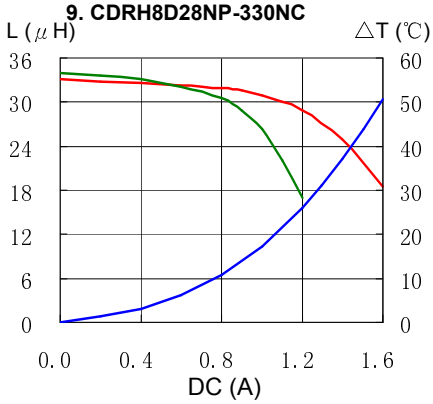

7. CDRH8D28NP-150NC



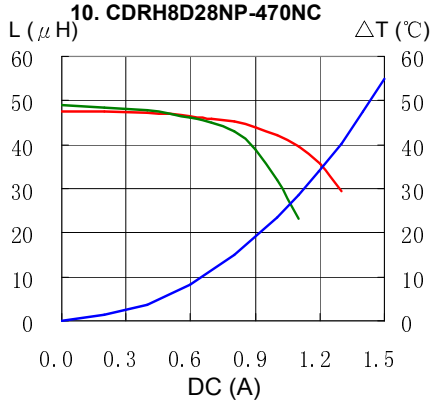

8. CDRH8D28NP-220NC



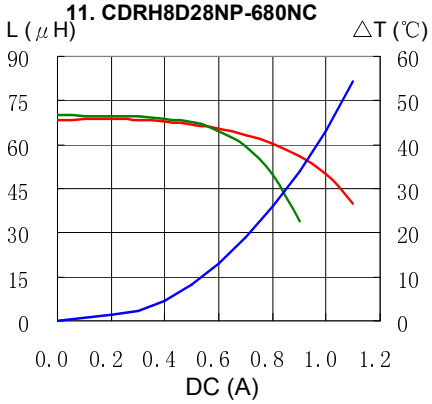

9. CDRH8D28NP-330NC



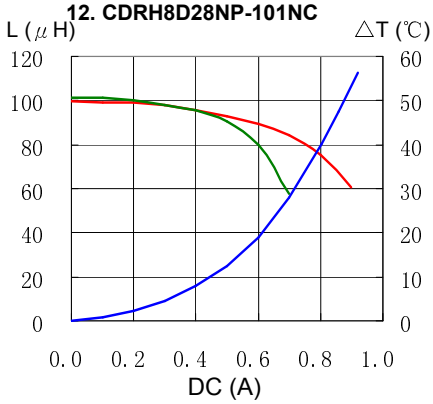

10. CDRH8D28NP-470NC




11. CDRH8D28NP-680NC

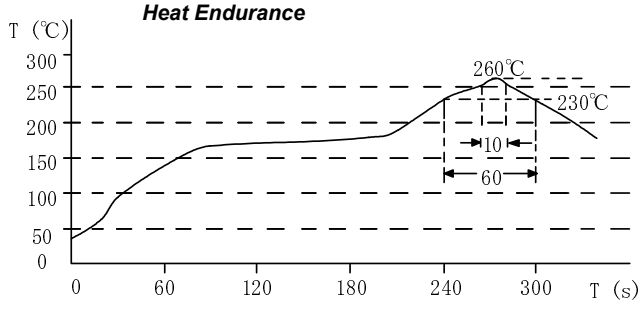



12. CDRH8D28NP-101NC



## Solder Reflow Condition

***Heat Endurance***




***Temperature Chart***

