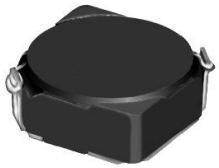
# SMD Power Inductor
## CDRH6D28

RoHS



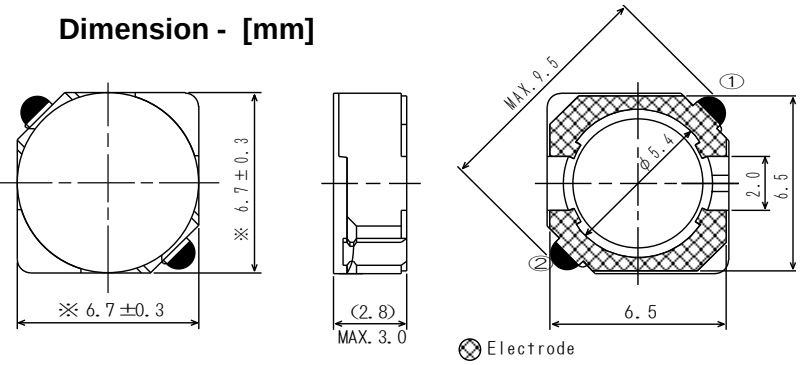
### Description
- Ferrite drum core construction.
- Magnetically shielded.
- L × W × H:7.0 × 7.0 × 3.0 mm Max.
- Product weight:  0.44g(Ref.)
- Moisture Sensitivity Level: 1
- RoHS compliance.

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

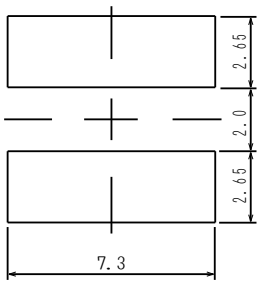
### Packaging
- Carrier tape and reel packaging
- 13"diameter reel
- 1500pcs per reel

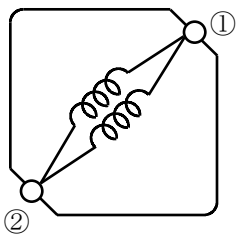
### Applications
- Ideally used in MP3, PDA ,HDD,DSC/DVC, Notebook PC etc as DC-DC converter inductors.

### Dimension - [mm]

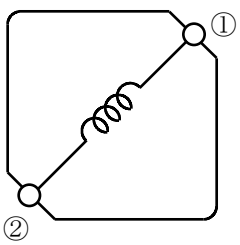



### Land pattern and Schematics - [mm]




(3.0μH～6.0μH)




(7.3μH～100μH)



Revised: 9-Jan-17

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## Electrical Characteristics

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

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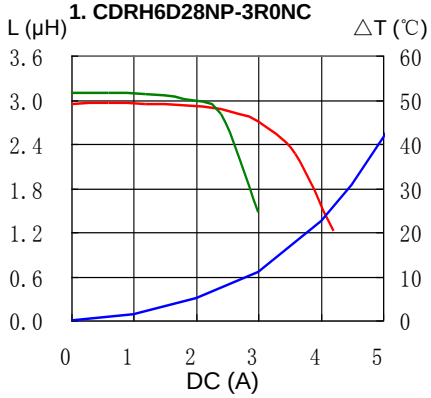
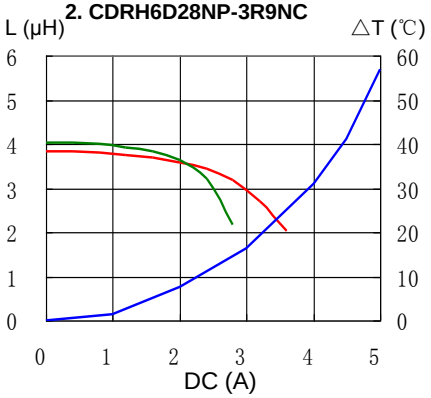
## Saturation Current & Temperature Rise Graph

L (20℃) L (105℃) △T

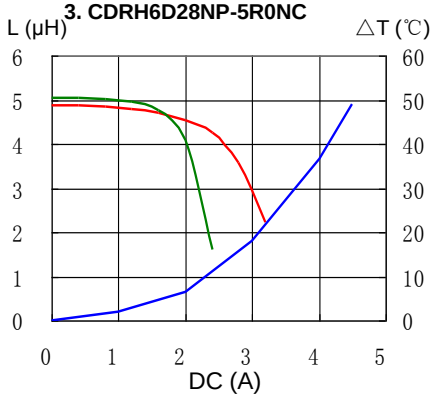
### 1. CDRH6D28NP-3R0NC



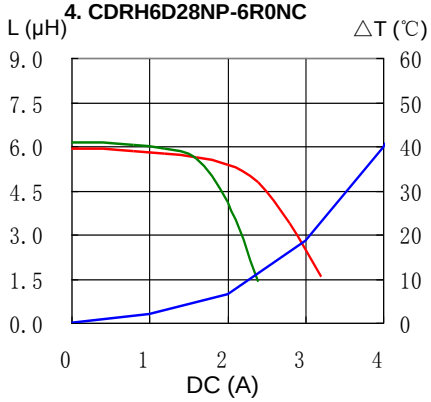

### 2. CDRH6D28NP-3R9NC



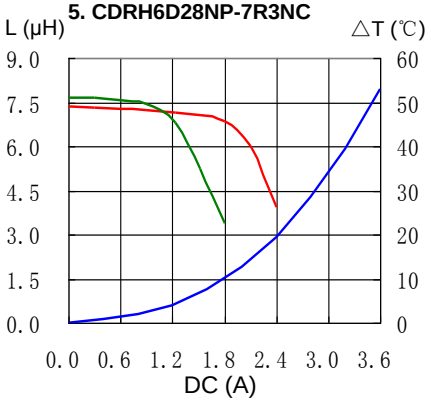

### 3. CDRH6D28NP-5R0NC



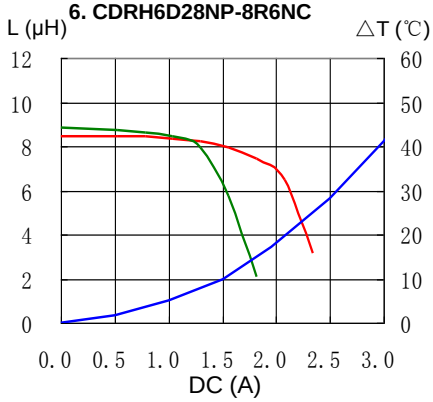

### 4. CDRH6D28NP-6R0NC



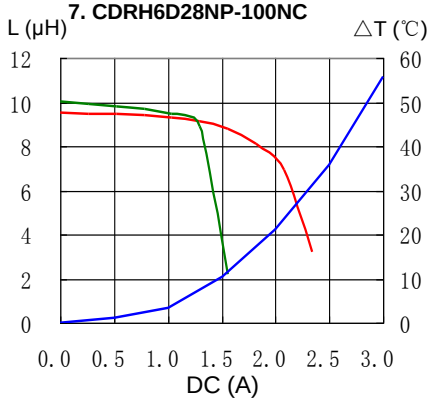

### 5. CDRH6D28NP-7R3NC



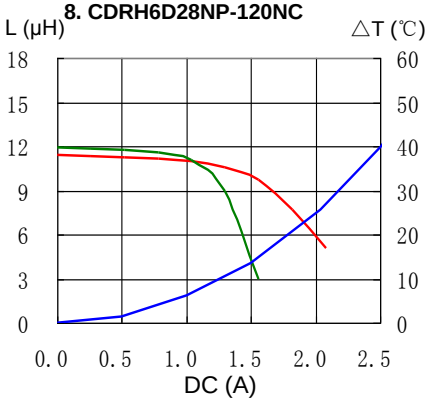

### 6. CDRH6D28NP-8R6NC



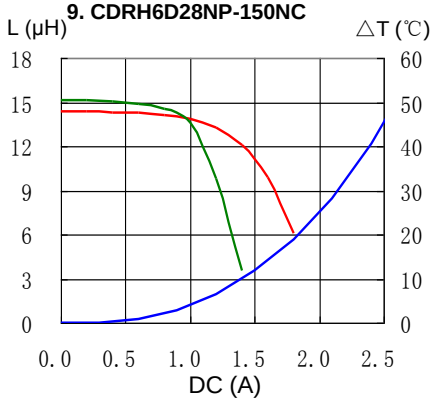

### 7. CDRH6D28NP-100NC



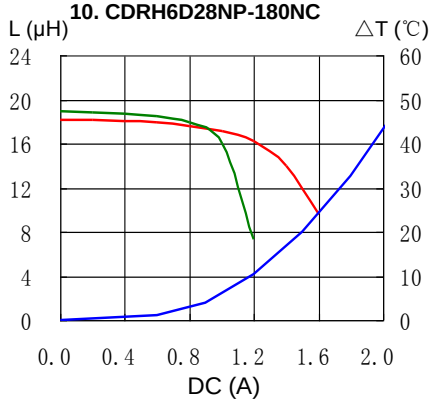

### 8. CDRH6D28NP-120NC



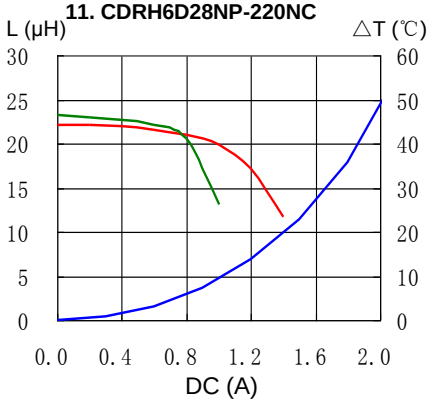

### 9. CDRH6D28NP-150NC



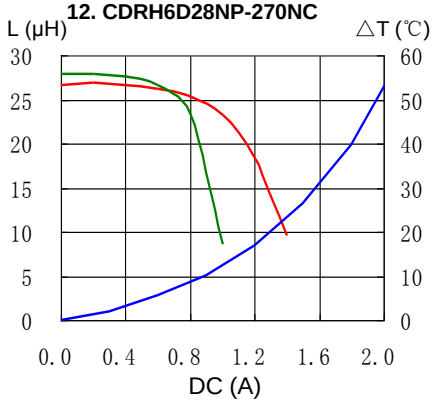

### 10. CDRH6D28NP-180NC




### 11. CDRH6D28NP-220NC




### 12. CDRH6D28NP-270NC



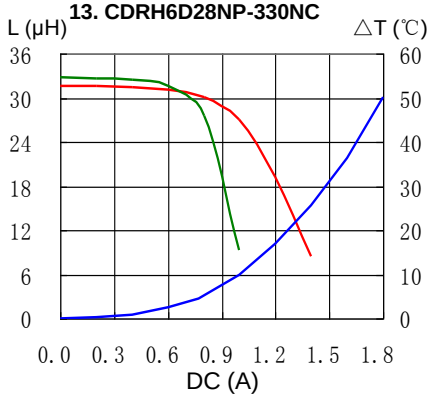



Revised: 9-Jan-17

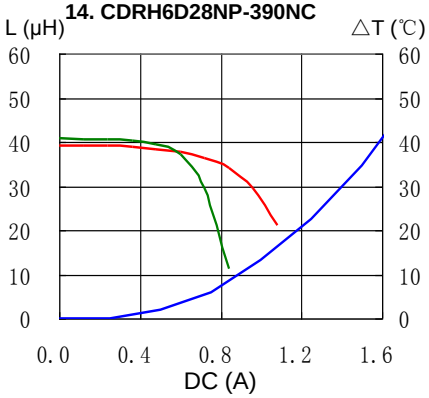
## Saturation Current & Temperature Rise Graph

L (20℃) L (105℃) △T

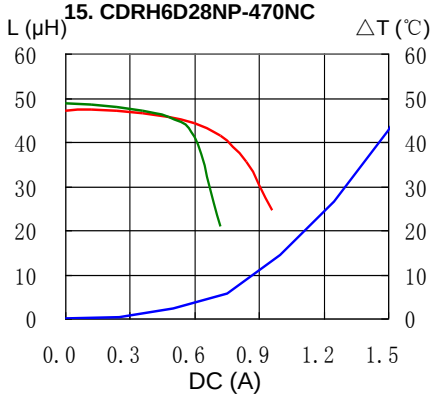
**13. CDRH6D28NP-330NC**



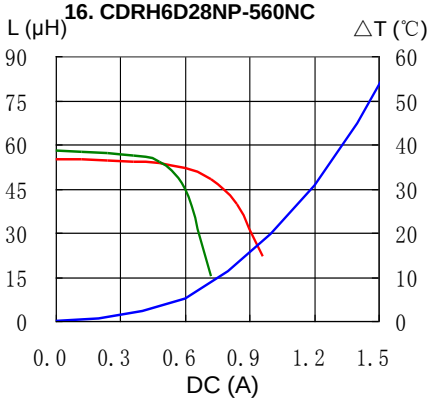

**14. CDRH6D28NP-390NC**



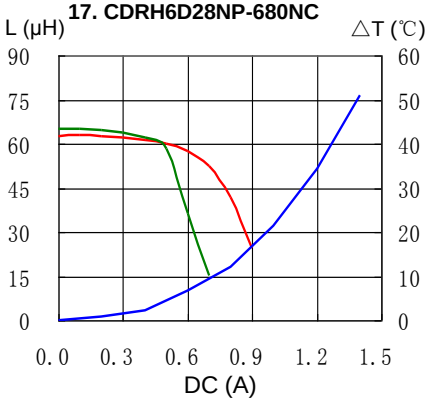

**15. CDRH6D28NP-470NC**



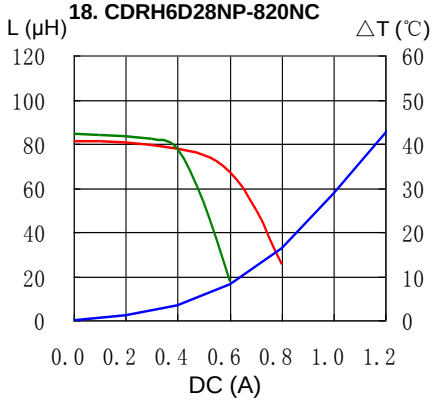

**16. CDRH6D28NP-560NC**



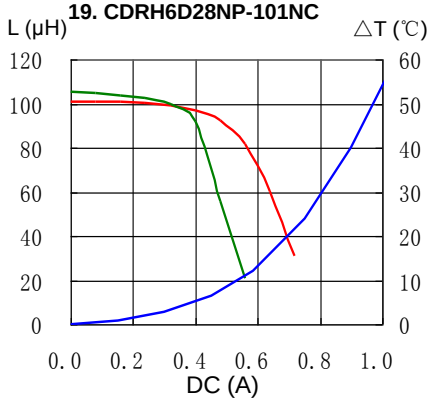

**17. CDRH6D28NP-680NC**




**18. CDRH6D28NP-820NC**

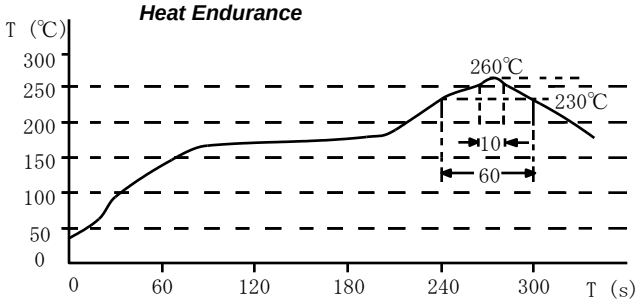



**19. CDRH6D28NP-101NC**

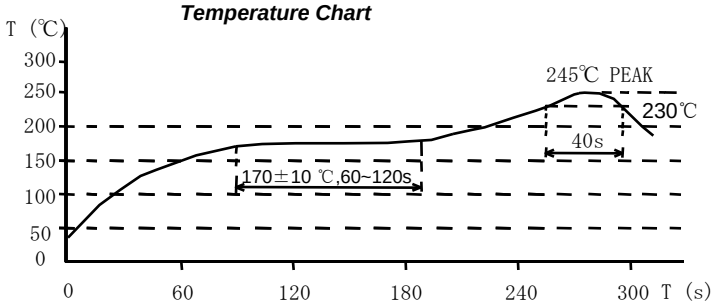


## Solder Reflow Condition

***Heat Endurance***




***Temperature Chart***

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