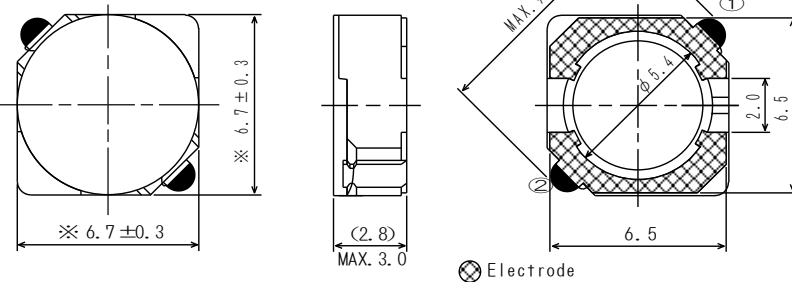
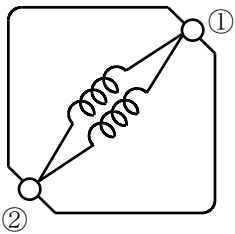
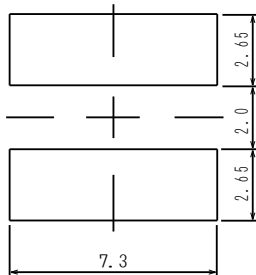




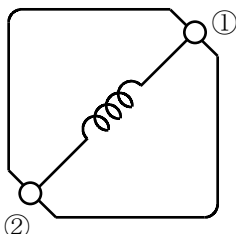
**Dimension - [mm]**



### Land pattern and Schematics - [mm]



(3.0μH~6.0μH)



(7.3μH~100μH)

### Description

- Ferrite drum core construction.
- Magnetically shielded.
- L x W x H: 7.0 x 7.0 x 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

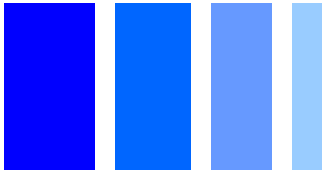
- Carrier tape and reel packaging
- 13" diameter reel
- 1500pcs per reel

## Applications

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

# SMD Power Inductor

## CDRH6D28



### Electrical Characteristics

| Part Name        | Stamp | Inductance<br>( $\mu$ H)<br>[within] ※1 | D.C.R.( $\Omega$ )<br>Max. (Typ.)<br>(at 20°C) | Rated Current<br>(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 ( $T_a=20^{\circ}\text{C}$ ).

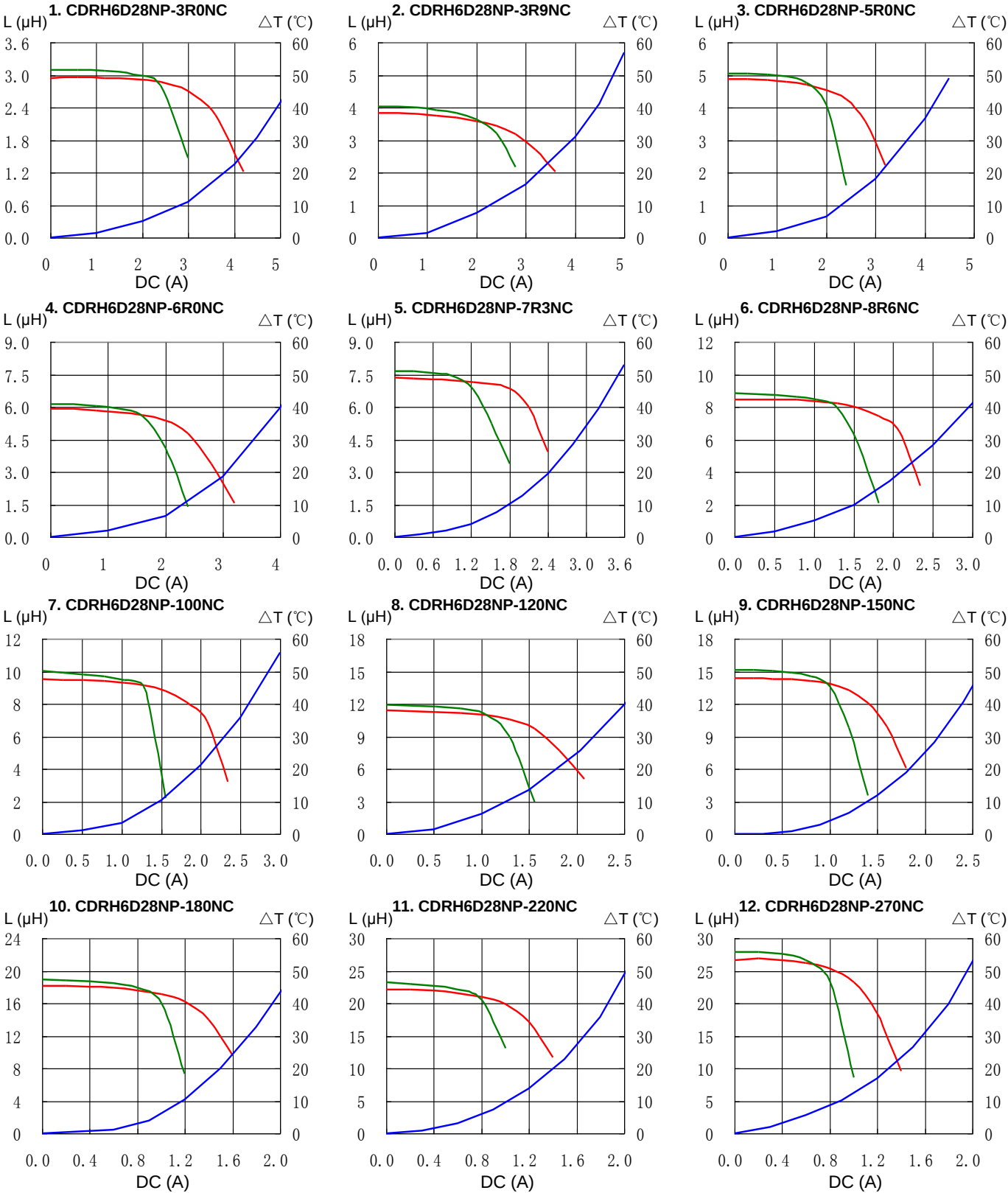
# SMD Power Inductor

## CDRH6D28



### Saturation Current & Temperature Rise Graph

— L (20°C) — L (105°C) —  $\Delta T$



# SMD Power Inductor

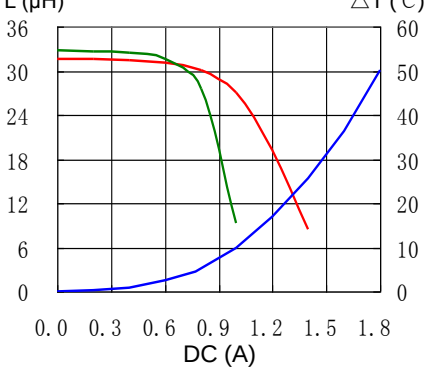
## CDRH6D28



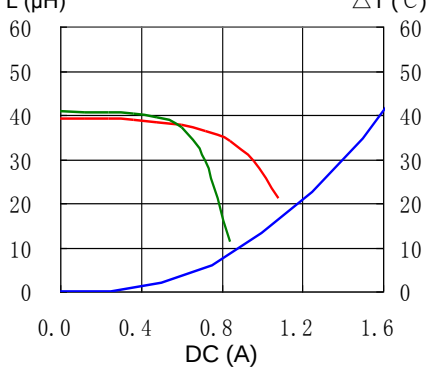
### Saturation Current & Temperature Rise Graph

— L (20°C) — L (105°C) —  $\Delta T$

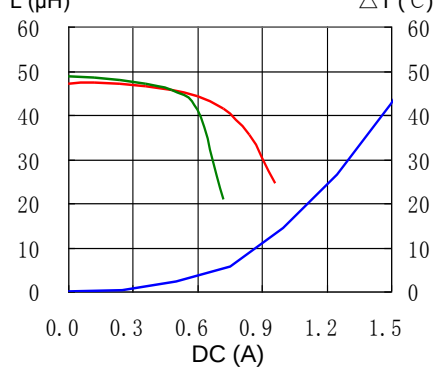
13. CDRH6D28NP-330NC



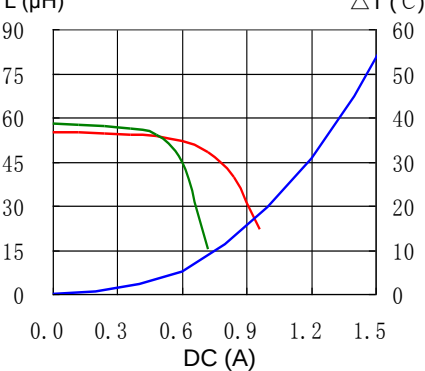
14. CDRH6D28NP-390NC



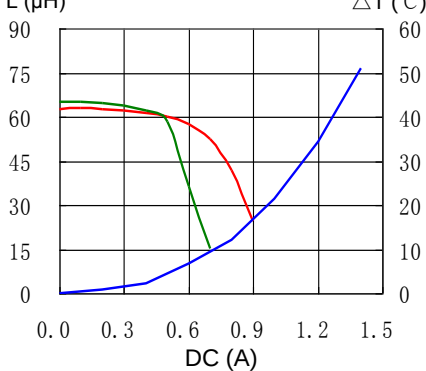
15. CDRH6D28NP-470NC



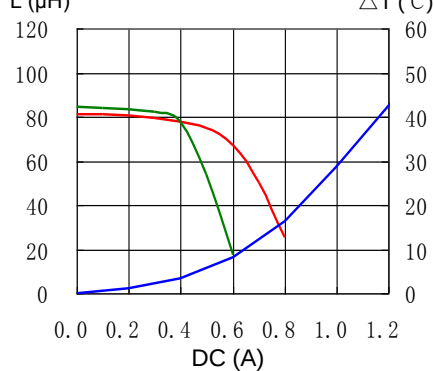
16. CDRH6D28NP-560NC



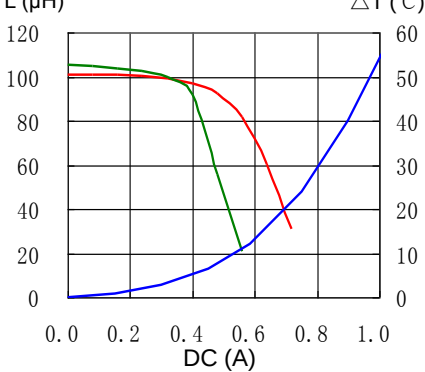
17. CDRH6D28NP-680NC



18. CDRH6D28NP-820NC



19. CDRH6D28NP-101NC

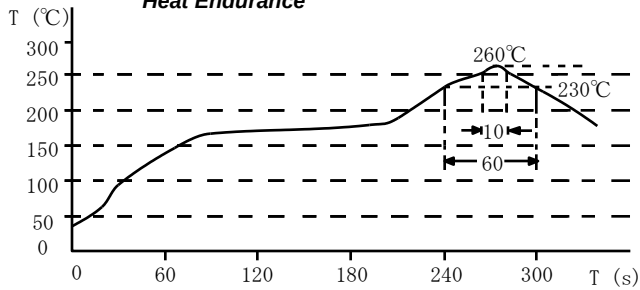


# SMD Power Inductor CDRH6D28

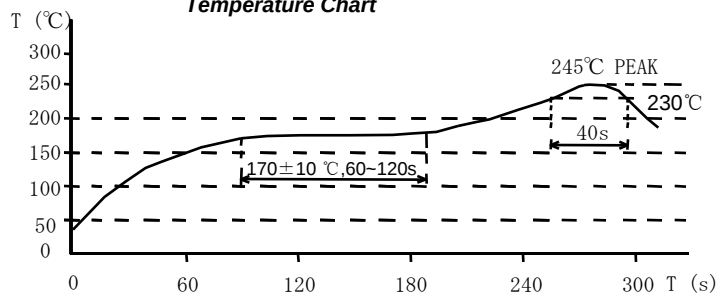


## Solder Reflow Condition

Heat Endurance



Temperature Chart



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