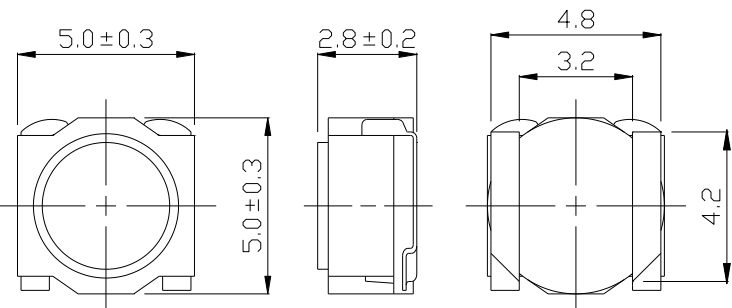


# SMD Power Inductor

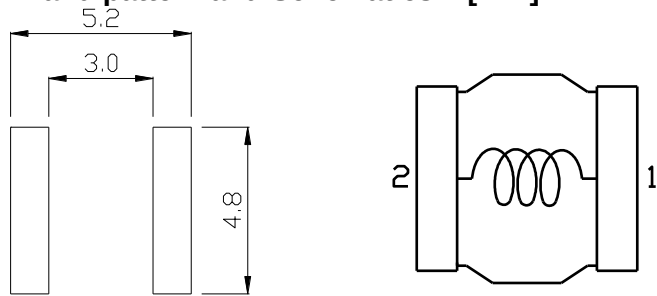
## CDRH50D28R



### Dimension - [mm]



### Land pattern and Schematics - [mm]



### Electrical Characteristics

| Part No.           | Stamp | Inductance (μH)<br>[Within] ※1 | D.C.R. (mΩ)<br>[Within]<br>(at 20℃) | Saturation current<br>(A) ※2 |           | Temperature rise<br>current (A) ※3 |
|--------------------|-------|--------------------------------|-------------------------------------|------------------------------|-----------|------------------------------------|
|                    |       |                                |                                     | (at 20℃)                     | (at 105℃) |                                    |
| CDRH50D28RNP-1R2NC | A     | 1.2±30%                        | 13±25%                              | 4.80                         | 4.10      | 5.40                               |
| CDRH50D28RNP-1R6NC | B     | 1.6±30%                        | 15±25%                              | 4.20                         | 3.60      | 4.70                               |
| CDRH50D28RNP-2R2NC | C     | 2.2±30%                        | 17±25%                              | 3.65                         | 3.05      | 4.30                               |
| CDRH50D28RNP-3R0MC | D     | 3.0±20%                        | 25±25%                              | 3.10                         | 2.55      | 3.50                               |
| CDRH50D28RNP-4R7MC | E     | 4.7±20%                        | 40±25%                              | 2.50                         | 2.15      | 2.70                               |
| CDRH50D28RNP-6R8MC | F     | 6.8±20%                        | 61±25%                              | 2.10                         | 1.75      | 2.20                               |
| CDRH50D28RNP-100MC | G     | 10±20%                         | 87±25%                              | 1.70                         | 1.40      | 1.75                               |
| CDRH50D28RNP-150MC | H     | 15±20%                         | 140±20%                             | 1.40                         | 1.10      | 1.30                               |
| CDRH50D28RNP-220MC | J     | 22±20%                         | 175±20%                             | 1.15                         | 0.98      | 1.16                               |
| CDRH50D28RNP-330MC | K     | 33±20%                         | 248±20%                             | 0.94                         | 0.78      | 0.98                               |
| CDRH50D28RNP-470MC | L     | 47±20%                         | 370±20%                             | 0.78                         | 0.65      | 0.78                               |

※1. Inductance measuring condition: at 100kHz.

※2. Saturation current: The value of D.C. current when the inductance decreases to 70% of it's nominal value.

※3. Temperature rise current: The value of D.C. current when the temperature rise is Δt=40℃(Ta=20℃).

### Description

- Ferrite drum core construction.
- Magnetically shielded.
- L × W × H: 5.3 × 5.3 × 3.0mm Max.
- Product weight: 0.25g(Ref.)
- Moisture Sensitivity Level: 1
- RoHS compliance.

### Environmental Data

- Operating temperature range: -40℃~+105℃  
(including coil's self temperature rise)
- Storage temperature range: -40℃~+105℃
- Solder reflow temperature: 260℃ peak.

### Packaging

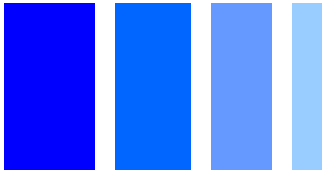
- Carrier tape and reel packaging.
- 13.0" diameter reel
- 2000pcs per reel

### Applications

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

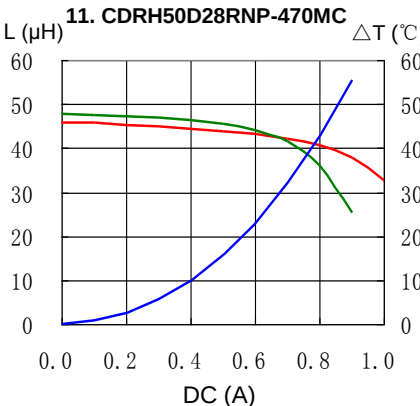
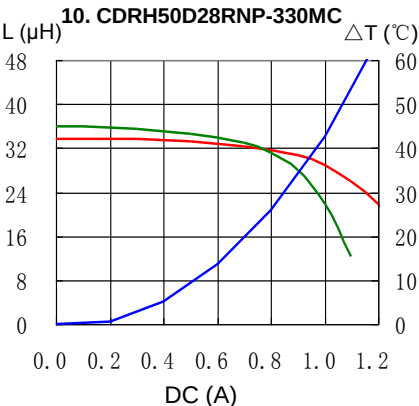
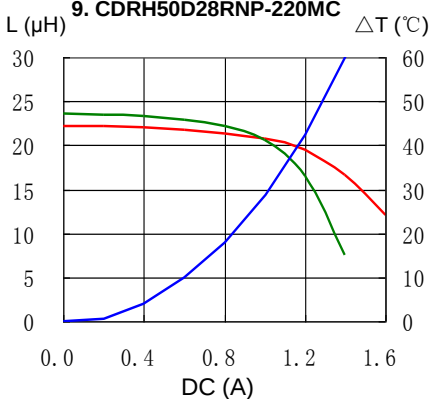
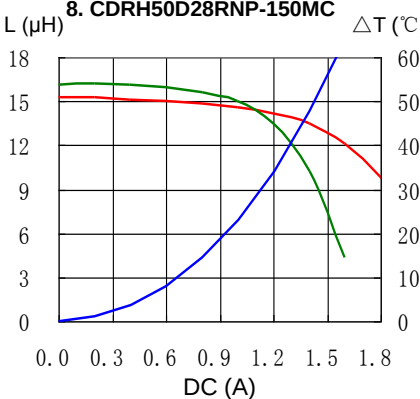
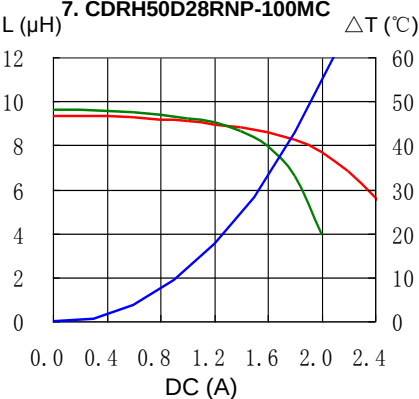
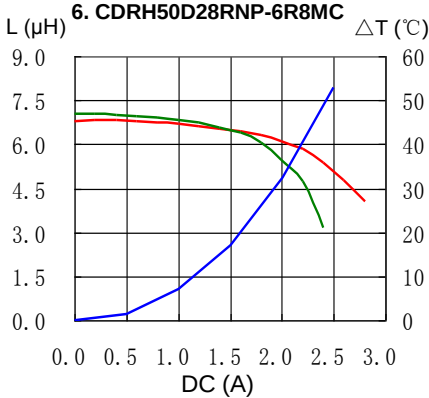
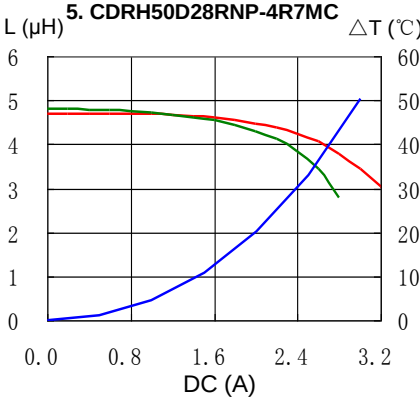
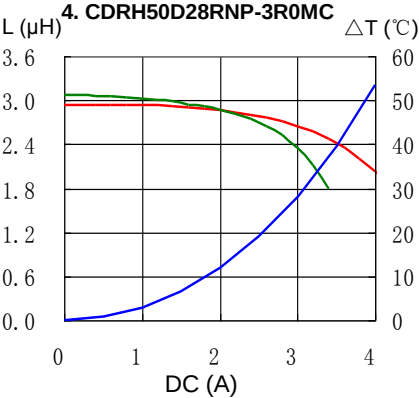
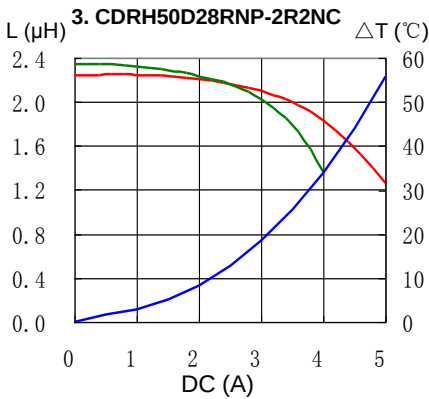
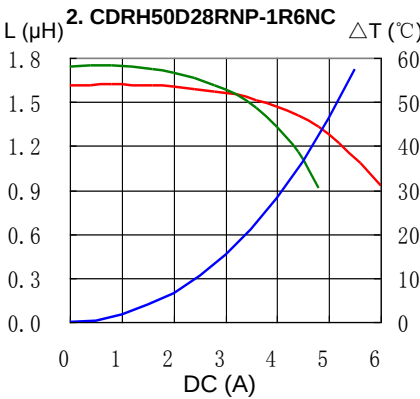
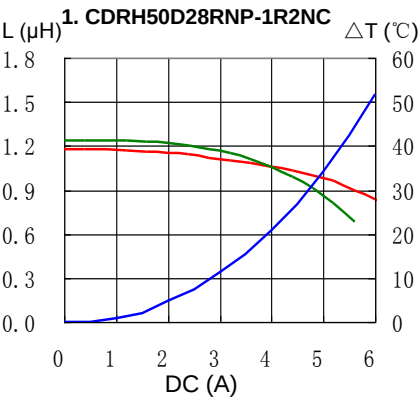
# SMD Power Inductor

## CDRH50D28R



### Saturation Current & Temperature Rise Graph

— L (20°C) — L (105°C) —  $\Delta T$

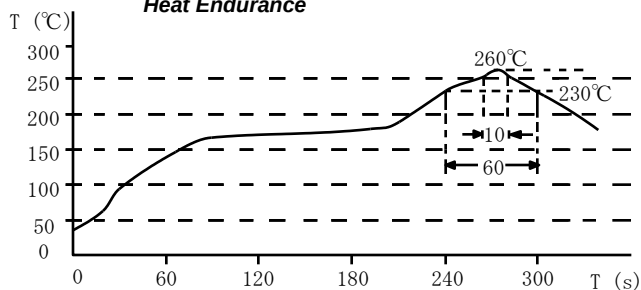


# SMD Power Inductor CDRH50D28R

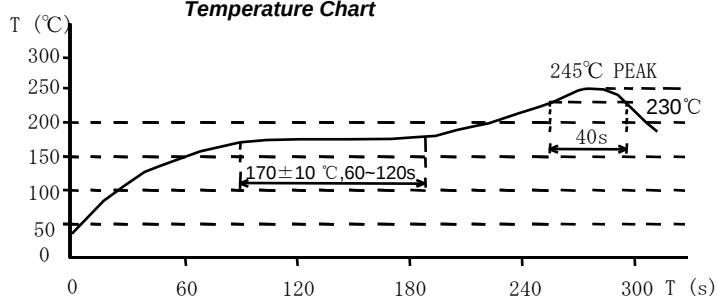


## Solder Reflow Condition

Heat Endurance



Temperature Chart



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