

# SMD Power Inductor CDRH70D43DMN



**sumida**

*Under Development*



## Description

- Ferrite drum core construction.
- Magnetically shielded.
- L × W × H: 7.3 × 7.3 × 4.5 mm Max.
- Product weight: 0.75g(Ref.)
- Moisture Sensitivity Level: 1
- RoHS compliance.

## Environmental Data

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

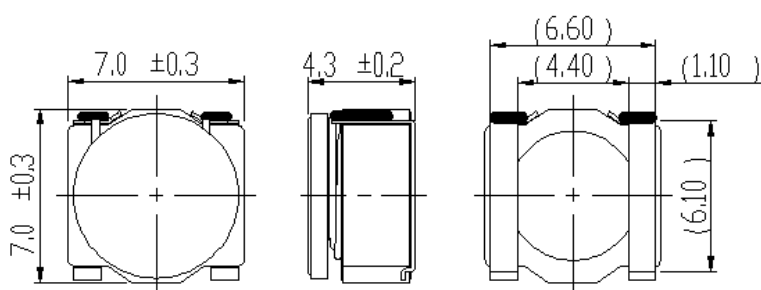
## Packaging

- Carrier tape and reel packaging

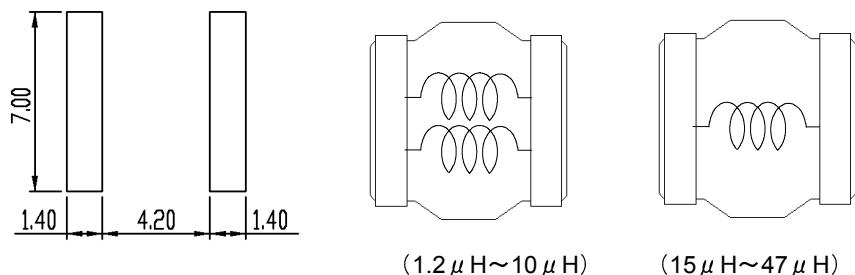
## Applications

- Ideally used in Hard disk-related, power supply for TV and game machine etc.

## Dimension - [mm]



## Land pattern and Schematics - [mm]



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## Electrical Characteristics

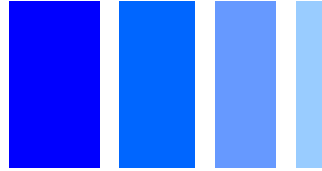
| Part Name            | Stamp | Inductance<br>[within] ※ 1 | D.C.R. (mΩ)<br>[Max.] (Typ.) | Saturation current<br>(A) ※2 |         | Temperature<br>rise Current<br>(A) ※3 |
|----------------------|-------|----------------------------|------------------------------|------------------------------|---------|---------------------------------------|
|                      |       |                            |                              | at 20℃                       | at 105℃ |                                       |
| CDRH70D43DMNNP-1R2PC | 1R2   | 1.2 μH ± 25%               | 13.7(11)                     | 11.40                        | 9.00    | 7.80                                  |
| CDRH70D43DMNNP-2R4PC | 2R4   | 2.4 μH ± 25%               | 15.6(12.5)                   | 8.30                         | 6.60    | 6.50                                  |
| CDRH70D43DMNNP-3R3PC | 3R3   | 3.3 μH ± 25%               | 19.4(15.5)                   | 7.20                         | 5.80    | 5.60                                  |
| CDRH70D43DMNNP-4R3PC | 4R3   | 4.3 μH ± 25%               | 23.8(19)                     | 6.40                         | 5.00    | 4.70                                  |
| CDRH70D43DMNNP-6R2MC | 6R2   | 6.2 μH ± 20%               | 35.0(28)                     | 5.10                         | 4.20    | 3.80                                  |
| CDRH70D43DMNNP-100MC | 100   | 10.0 μH ± 20%              | 52.5(42)                     | 4.00                         | 3.10    | 2.80                                  |
| CDRH70D43DMNNP-150MC | 150   | 15.0 μH ± 20%              | 72.5(58)                     | 3.30                         | 2.70    | 2.30                                  |
| CDRH70D43DMNNP-220MC | 220   | 22.0 μH ± 20%              | 106(85)                      | 2.70                         | 2.20    | 1.80                                  |
| CDRH70D43DMNNP-330MC | 330   | 33.0 μH ± 20%              | 137(110)                     | 2.20                         | 1.70    | 1.60                                  |
| CDRH70D43DMNNP-470MC | 470   | 47.0 μH ± 20%              | 200(160)                     | 1.85                         | 1.50    | 1.30                                  |

※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  $\Delta t = 40^{\circ}\text{C}$  ( $T_a = 20^{\circ}\text{C}$ ).

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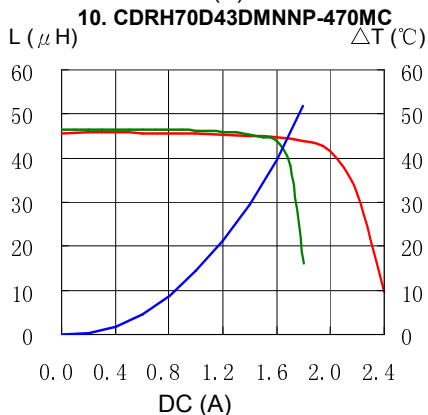
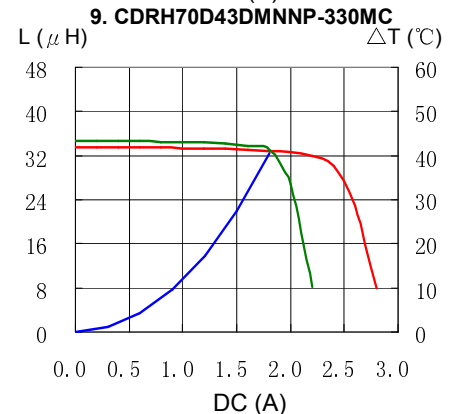
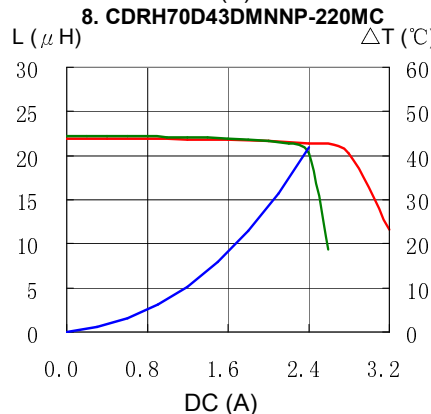
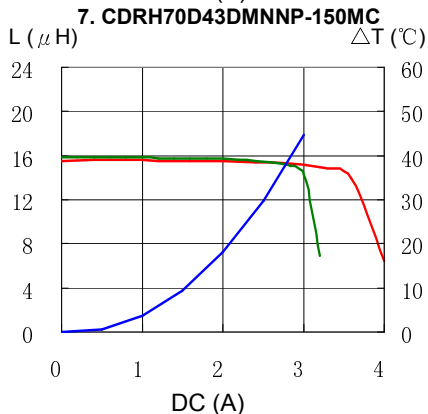
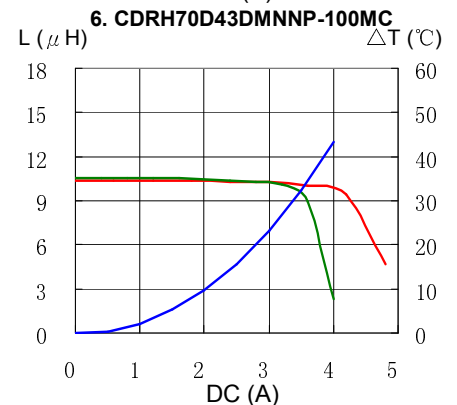
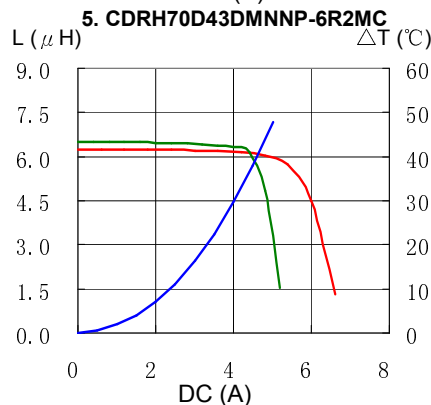
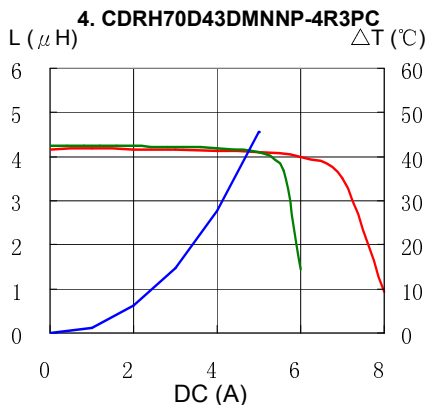
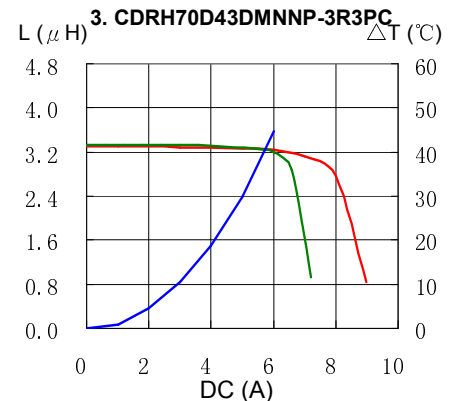
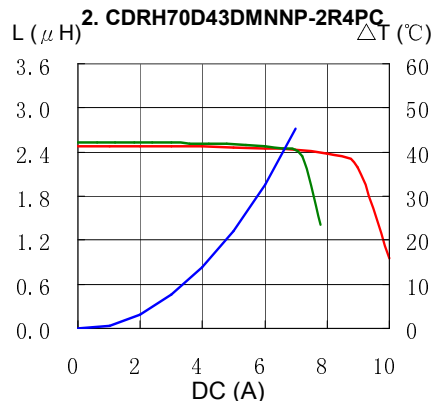
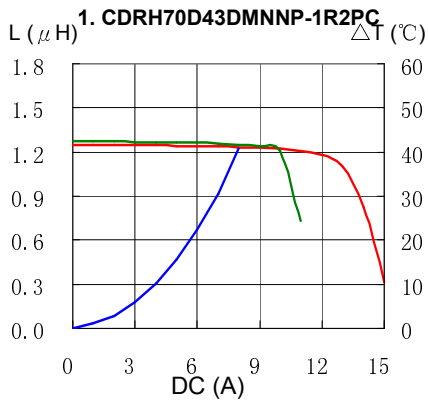


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## Saturation Current & Temperature Rise Graph

— L (20°C) — L (105°C) —  $\Delta T$

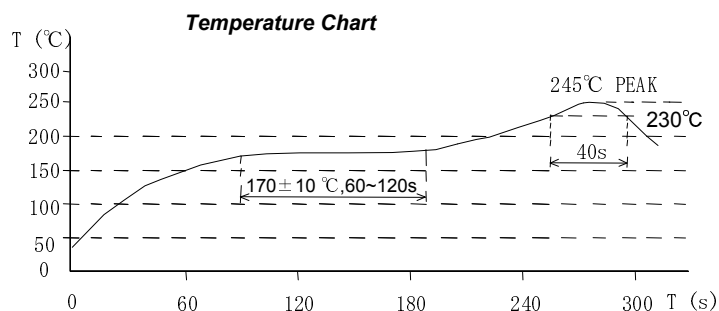
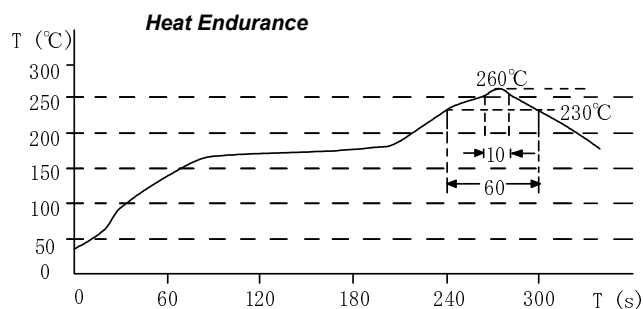


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## Solder Reflow Condition



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