

SMD Power Inductor CDRH148R



Description

- Ferrite drum core construction
- Magnetically shielded
- L × W × H: 15.0 × 15.0 × 8.5 mm Max.
- Product weight: 6.8g(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.

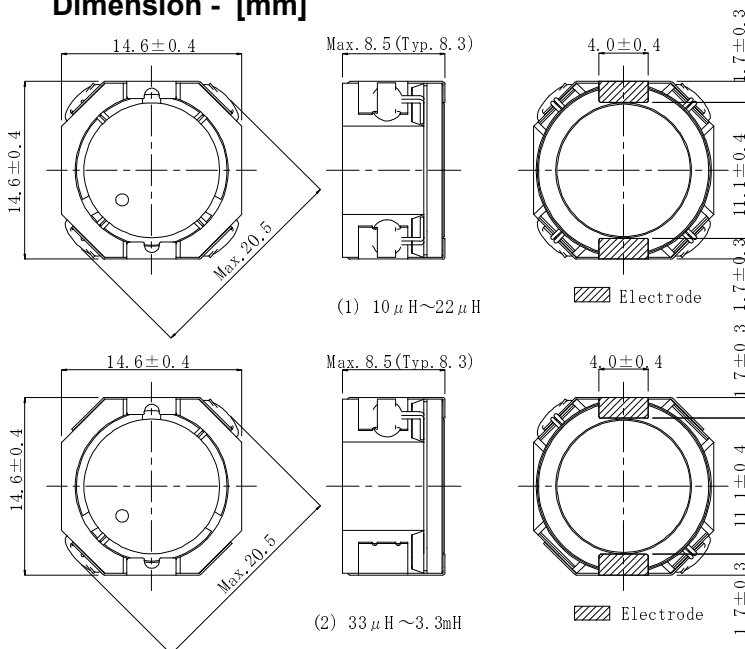
Packaging

- Carrier tape and reel packaging
- 13" diameter reel
- 250pcs per reel

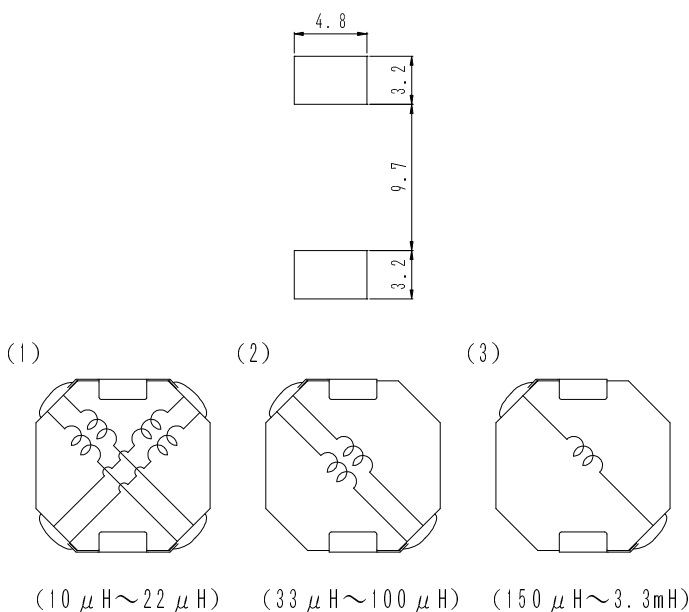
Applications

- Ideally used in Game machine, Notebook PC, LCD TV, DVD, STB, Projector etc as DC-DC converter inductors.

Dimension - [mm]



Land pattern and Schematics - [mm]



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Electrical Characteristics

| Part No. | Stamp | Inductance (μ H) [within] ※1 | D.C.R. (Ω) [Max.] (Typ.) (at 20°C) | Saturation Current (A) ※2 | | Temperature Rise Current (A) ※3 |
|------------------|-------|---|---|------------------------------|----------|---------------------------------------|
| | | | | at 20°C | at 105°C | |
| CDRH148RNP-100MC | 100 | 10 \pm 20% | 9.6m(7.7m) | 10.8 | 7.30 | 7.80 |
| CDRH148RNP-150MC | 150 | 15 \pm 20% | 15m(12m) | 8.40 | 5.70 | 6.10 |
| CDRH148RNP-220MC | 220 | 22 \pm 20% | 22m(18m) | 7.20 | 4.90 | 5.00 |
| CDRH148RNP-330MC | 330 | 33 \pm 20% | 33m(27m) | 5.80 | 3.90 | 4.10 |
| CDRH148RNP-470MC | 470 | 47 \pm 20% | 50m(40m) | 4.90 | 3.30 | 3.20 |
| CDRH148RNP-680MC | 680 | 68 \pm 20% | 71m(57m) | 4.00 | 2.70 | 2.70 |
| CDRH148RNP-101MC | 101 | 100 \pm 20% | 96m(77m) | 3.30 | 2.20 | 2.40 |
| CDRH148RNP-151MC | 151 | 150 \pm 20% | 140m(112m) | 2.80 | 1.90 | 2.00 |
| CDRH148RNP-221MC | 221 | 220 \pm 20% | 208m(167m) | 2.30 | 1.50 | 1.60 |
| CDRH148RNP-331MC | 331 | 330 \pm 20% | 305m(244m) | 1.90 | 1.30 | 1.30 |
| CDRH148RNP-471MC | 471 | 470 \pm 20% | 415m(332m) | 1.60 | 1.00 | 1.10 |
| CDRH148RNP-681MC | 681 | 680 \pm 20% | 592m(474m) | 1.30 | 0.86 | 0.93 |
| CDRH148RNP-102MC | 102 | 1000 \pm 20% | 0.81(0.65) | 1.00 | 0.70 | 0.74 |
| CDRH148RNP-152MC | 152 | 1500 \pm 20% | 1.31(1.05) | 0.88 | 0.59 | 0.61 |
| CDRH148RNP-222MC | 222 | 2200 \pm 20% | 1.89(1.51) | 0.71 | 0.48 | 0.48 |
| CDRH148RNP-332MC | 332 | 3300 \pm 20% | 2.76(2.21) | 0.57 | 0.38 | 0.39 |

※1 Inductance measuring condition: at 100kHz .

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

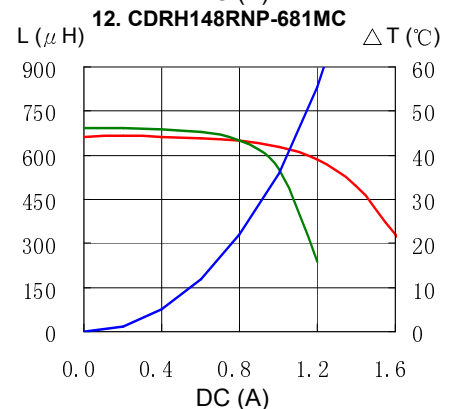
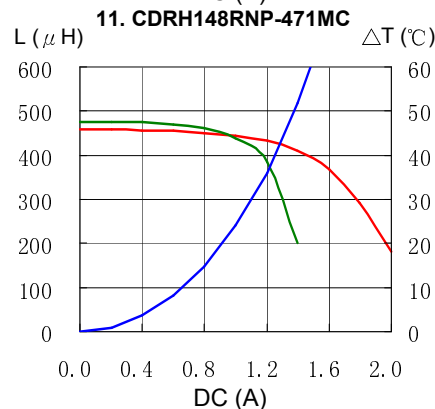
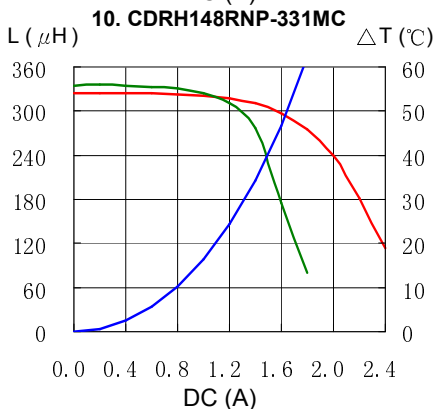
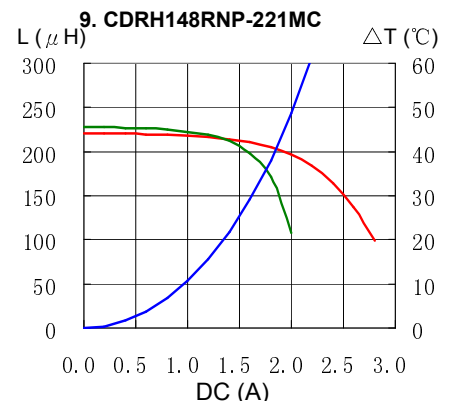
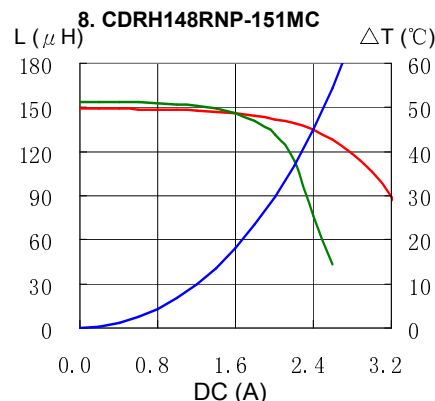
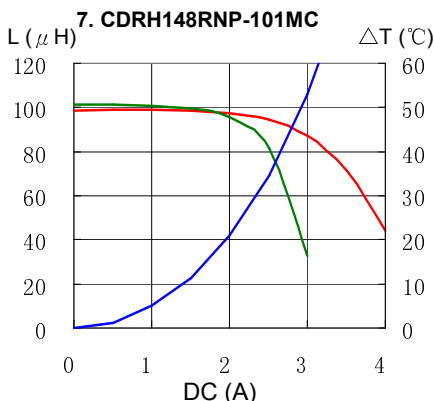
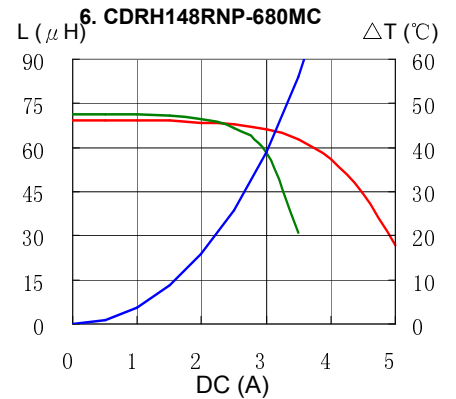
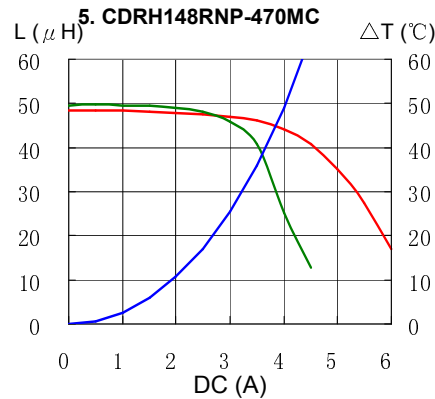
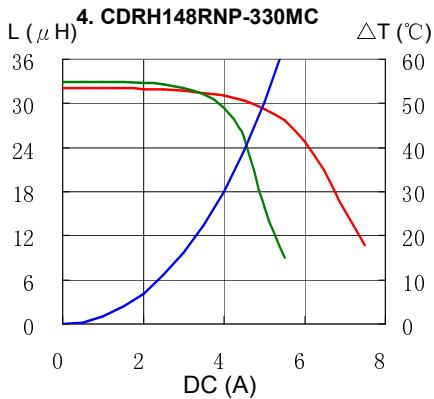
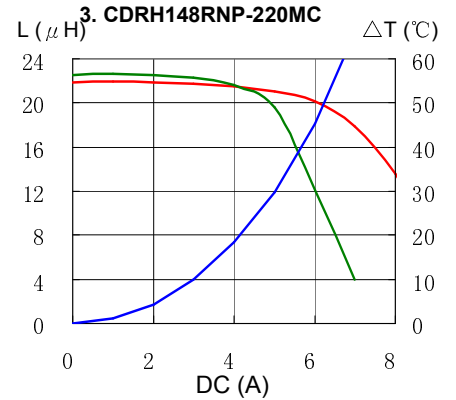
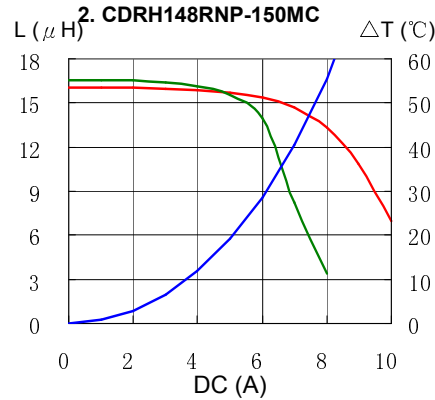
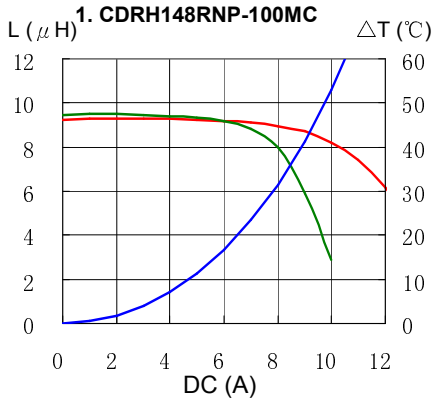
※3 Temperature rise current: The value of DC current when the temperature rise is $\Delta T=40^{\circ}\text{C}$ ($T_a=20^{\circ}\text{C}$).

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Saturation Current & Temperature Rise Graph

— L (20°C) — L (105°C) — ΔT

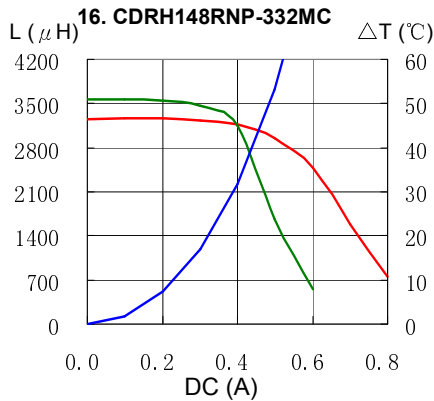
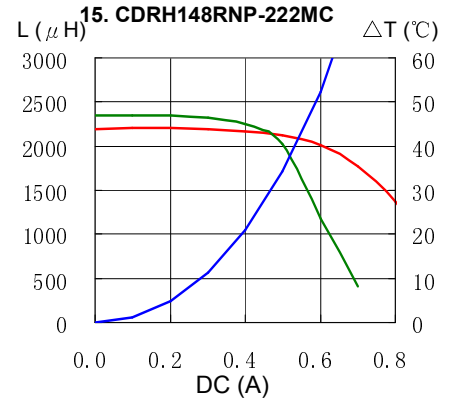
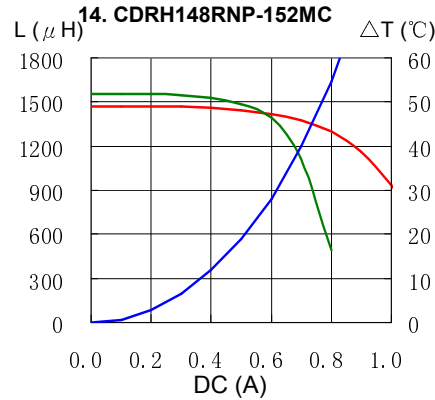
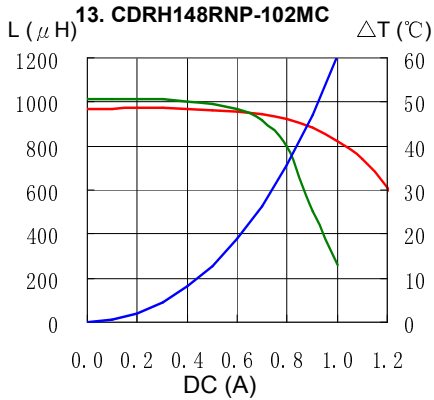


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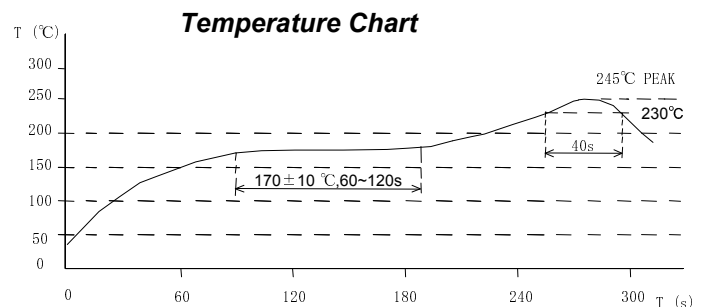
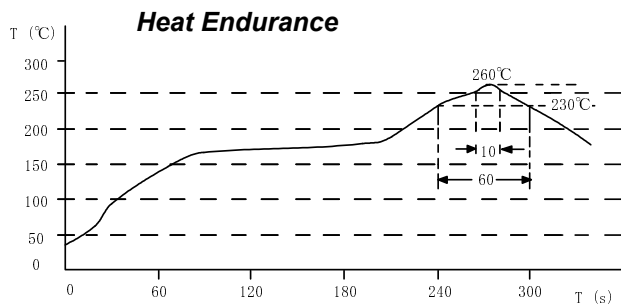


Saturation Current & Temperature Rise Graph

— L (20°C) — L (105°C) — ΔT



Solder Reflow Condition



Please refer to the sales offices on our website - <http://www.sumida.com>

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