



**THE DATASHEET OF
CDRH74NP-681MC-B**



SMD Power Inductor CDRH74



Description

- Ferrite drum core construction.
- Magnetically shielded.
- L × W × H: 7.5 × 7.5 × 4.5 mm Max.
- Product weight: 0.78g(Ref.)
- Moisture Sensitivity Level: 1
- RoHS compliance.

Environmental Data

- Operating temperature range: -40°C ~ +100°C (including coil's self temperature rise)
- Storage temperature range: -40°C ~ +100°C
- Solder reflow temperature: 260 °C peak.

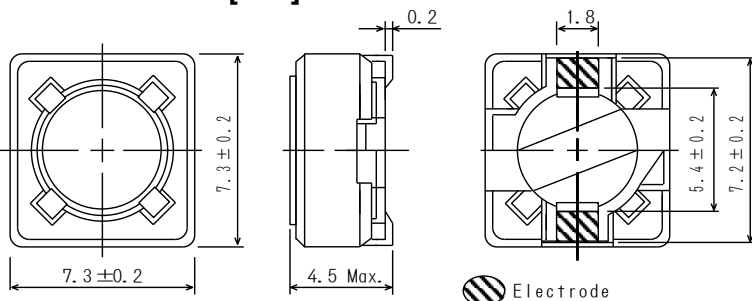
Packaging

- Carrier tape and reel packaging
- 12.9" diameter reel
- 1000pcs per reel

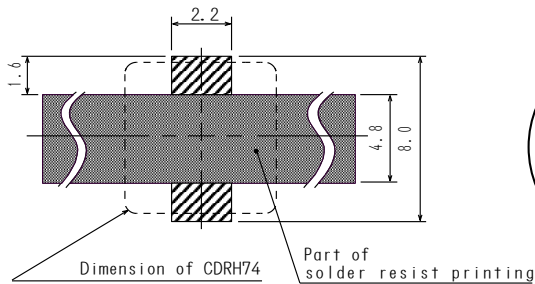
Applications

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

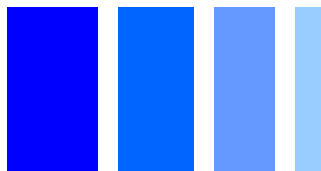
Dimension - [mm]



Land pattern and Schematics - [mm]



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Electrical Characteristics

| Part Name | Stamp | Inductance (μH) [within] ※1 | D.C.R.(Ω) Max. (Typ.) (at 20°C) | Rated Current (A) ※2 |
|------------------|-------|--|--|-------------------------|
| CDRH74NP-100MC-B | 100 | 10 \pm 20% | 49m(38m) | 1.84 |
| CDRH74NP-120MC-B | 120 | 12 \pm 20% | 58m(44m) | 1.71 |
| CDRH74NP-150MC-B | 150 | 15 \pm 20% | 81m(62m) | 1.47 |
| CDRH74NP-180MC-B | 180 | 18 \pm 20% | 91m(70m) | 1.31 |
| CDRH74NP-220MC-B | 220 | 22 \pm 20% | 0.11(77m) | 1.23 |
| CDRH74NP-270MC-B | 270 | 27 \pm 20% | 0.15(0.12) | 1.12 |
| CDRH74NP-330MC-B | 330 | 33 \pm 20% | 0.17(0.13) | 0.96 |
| CDRH74NP-390MC-B | 390 | 39 \pm 20% | 0.23(0.18) | 0.91 |
| CDRH74NP-470MC-B | 470 | 47 \pm 20% | 0.26(0.20) | 0.88 |
| CDRH74NP-560MC-B | 560 | 56 \pm 20% | 0.35(0.27) | 0.75 |
| CDRH74NP-680MC-B | 680 | 68 \pm 20% | 0.38(0.30) | 0.69 |
| CDRH74NP-820MC-B | 820 | 82 \pm 20% | 0.43(0.33) | 0.61 |
| CDRH74NP-101MC-B | 101 | 100 \pm 20% | 0.61(0.47) | 0.60 |
| CDRH74NP-121MC-B | 121 | 120 \pm 20% | 0.66(0.51) | 0.52 |
| CDRH74NP-151MC-B | 151 | 150 \pm 20% | 0.88(0.68) | 0.46 |
| CDRH74NP-181MC-B | 181 | 180 \pm 20% | 0.98(0.76) | 0.42 |
| CDRH74NP-221MC-B | 221 | 220 \pm 20% | 1.17(0.90) | 0.36 |
| CDRH74NP-271MC-B | 271 | 270 \pm 20% | 1.64(1.32) | 0.34 |
| CDRH74NP-331MC-B | 331 | 330 \pm 20% | 1.86(1.49) | 0.32 |
| CDRH74NP-391MC-B | 391 | 390 \pm 20% | 2.85(2.28) | 0.29 |
| CDRH74NP-471MC-B | 471 | 470 \pm 20% | 3.01(2.41) | 0.26 |
| CDRH74NP-561MC-B | 561 | 560 \pm 20% | 3.62(2.89) | 0.23 |
| CDRH74NP-681MC-B | 681 | 680 \pm 20% | 4.63(3.71) | 0.22 |
| CDRH74NP-821MC-B | 821 | 820 \pm 20% | 5.20(4.16) | 0.20 |
| CDRH74NP-102MC-B | 102 | 1.0mH \pm 20% | 6.00(4.80) | 0.18 |

※1. Inductance measuring condition: at 1 kHz.

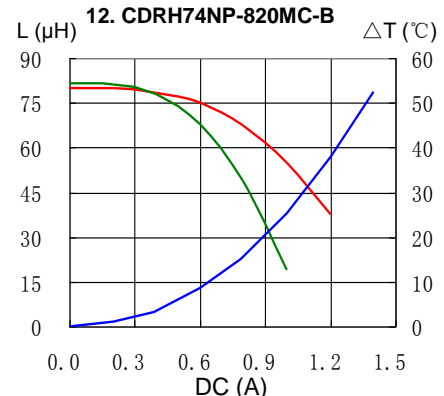
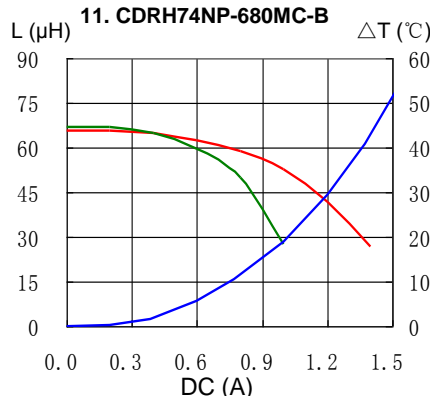
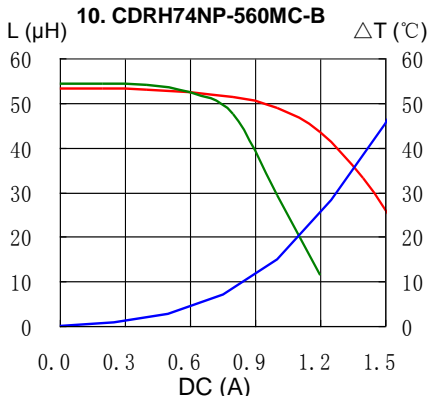
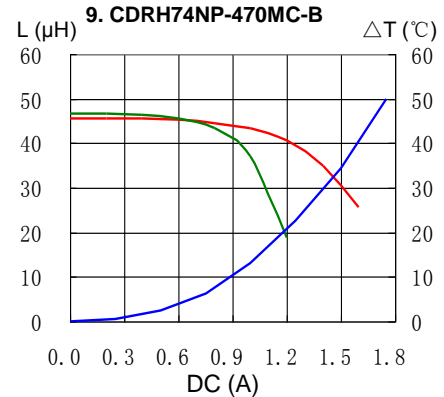
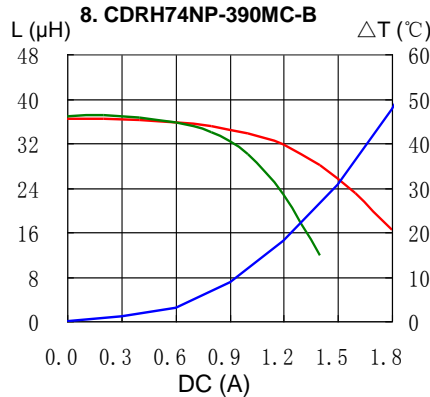
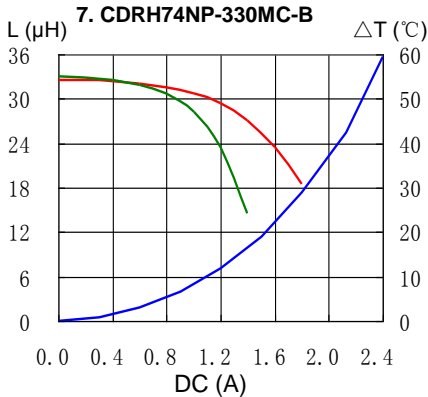
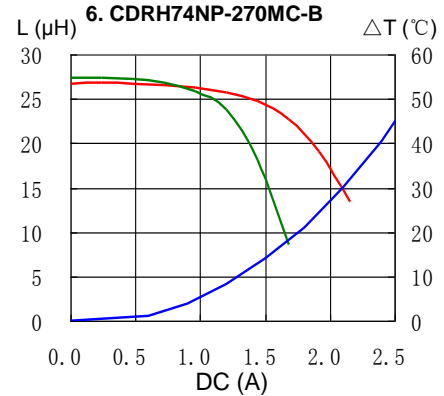
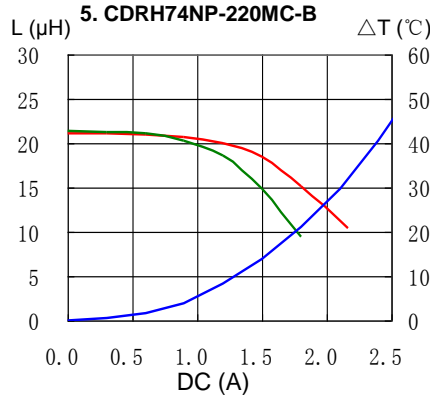
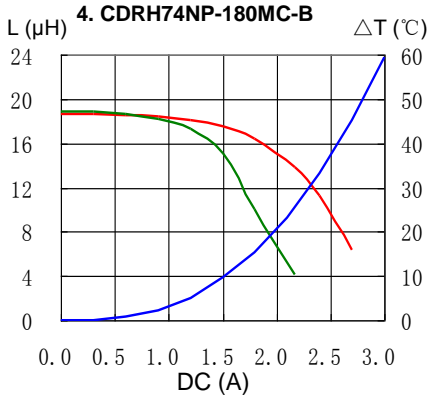
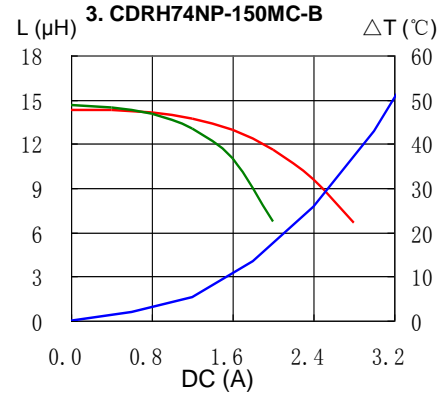
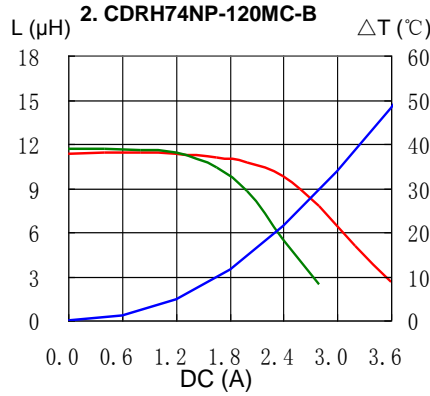
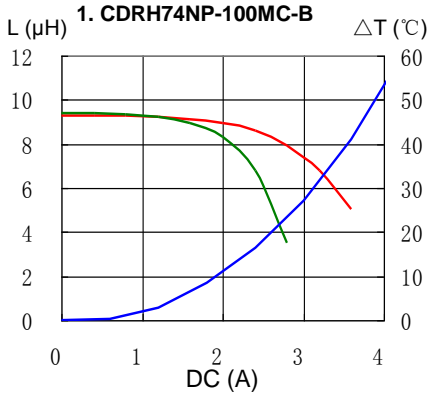
※2. Rated current: The DC current at which the inductance decreases to 75% of its nominal value or when $\Delta t=40^\circ\text{C}$, whichever is lower ($T_a=20^\circ\text{C}$).

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Saturation Current & Temperature Rise Graph

— L (20°C) — L (100°C) — ΔT

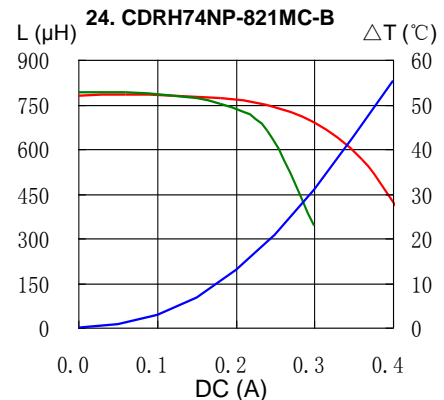
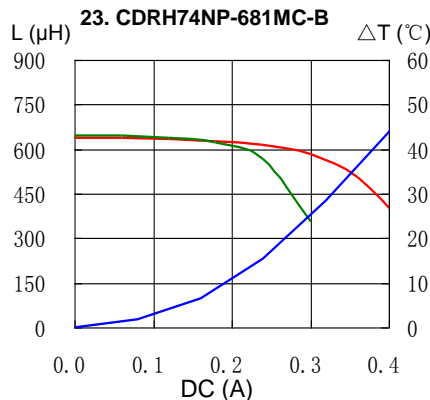
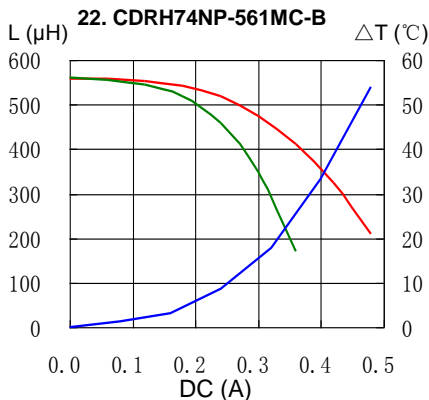
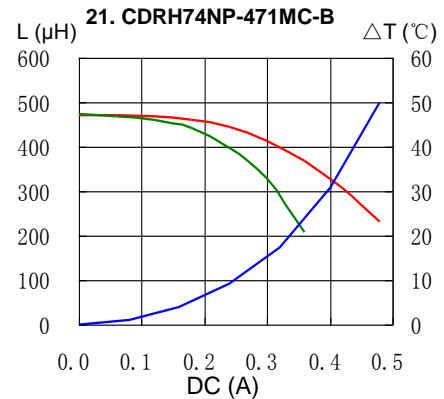
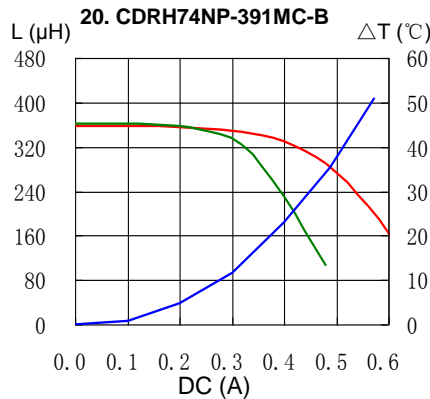
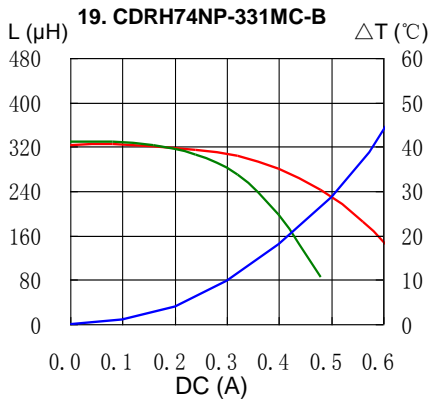
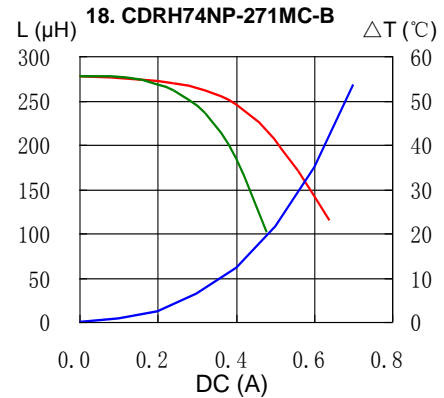
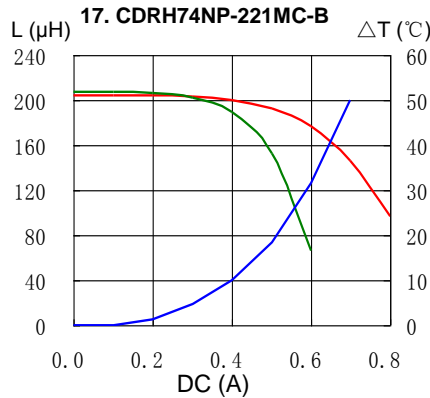
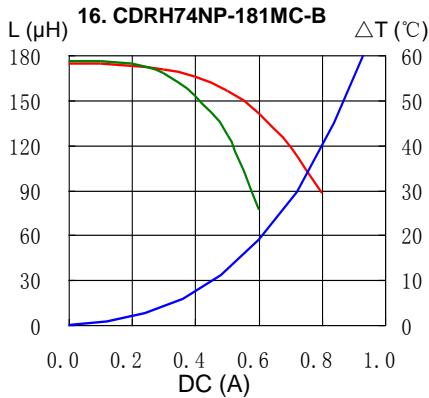
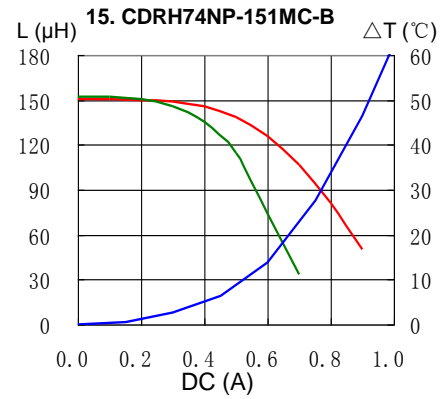
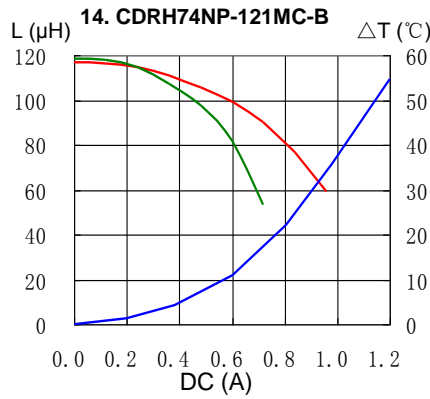
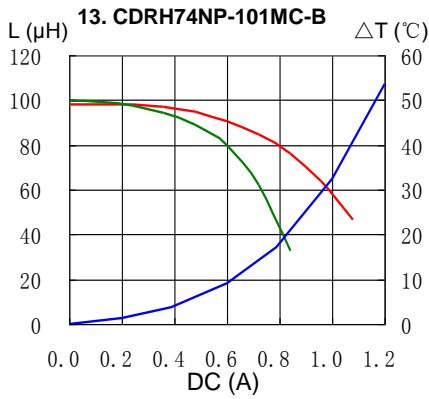


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Saturation Current & Temperature Rise Graph

— L (20°C) — L (100°C) — ΔT

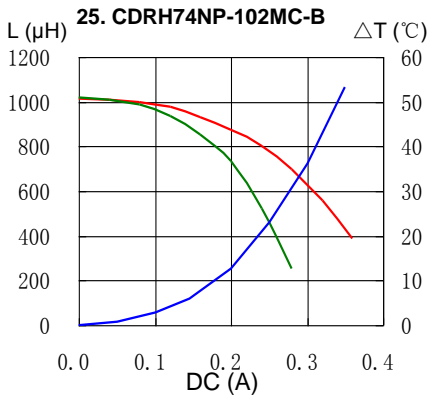


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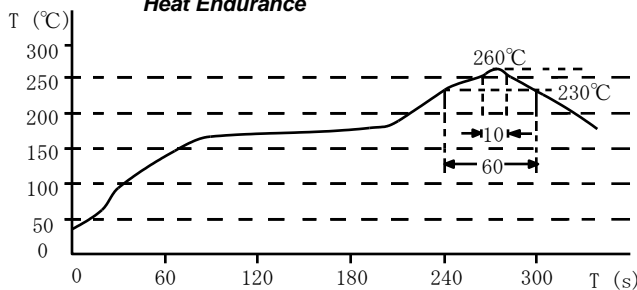
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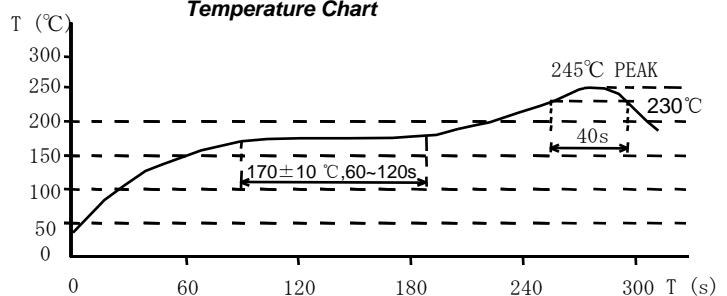


Solder Reflow Condition

Heat Endurance



Temperature Chart



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- ✓ Shortage Management
- ✓ Alternative Solution
- ✓ Excess Inventory Management