

SMD Power Inductor CDRR75



Halogen
Free



Description

- Ferrite drum core construction.
- Magnetically shielded.
- L × W × H: 7.2 × 7.2 × 4.8 mm Max.
- Product weight: 0.6 g(Ref.)
- Moisture Sensitivity Level: 1
- RoHS compliance.
- Halogen Free available.
- Qualification to AEC-Q200.

Environmental Data

- Operating temperature range: -40°C ~ +125°C (including coil's self temperature rise)
- Storage temperature range: -40°C ~ +125°C
- Solder reflow temperature: 260 °C peak.

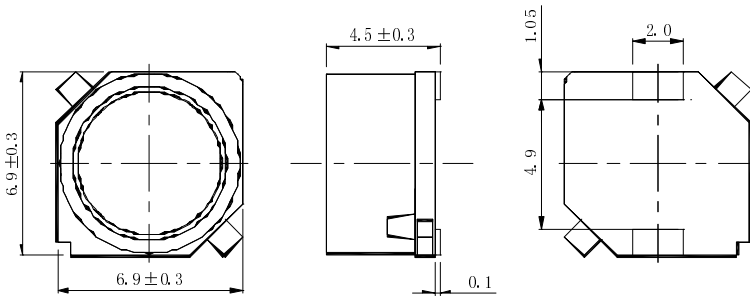
Packaging

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

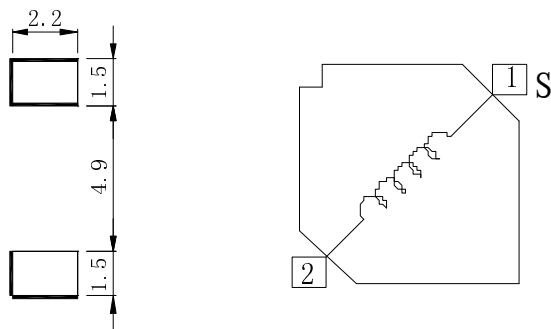
Applications

- For consumer electronics :HDD, personal computer, LCD display, etc.
- For automotive: ABS, SRS airbag, HID/LED, car audio, car navigation, LCD display, etc.

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) | |
| CDRR75NP-3R3MC | 3R3 | 3.3 \pm 20% | 34m (27m) | 2.10(2.64) | 1.80(2.25) | 3.30(3.76) |
| CDRR75NP-4R7MC | 4R7 | 4.7 \pm 20% | 39m (31m) | 2.04(2.55) | 1.55(1.94) | 2.80(3.20) |
| CDRR75NP-6R8MC | 6R8 | 6.8 \pm 20% | 43m (34m) | 1.46(1.83) | 1.30(1.63) | 2.55(2.90) |
| CDRR75NP-100MC | 100 | 10 \pm 20% | 57m (45m) | 1.32(1.65) | 1.02(1.28) | 2.40(2.73) |
| CDRR75NP-150MC | 150 | 15 \pm 20% | 63m (50m) | 1.15(1.44) | 0.94(1.18) | 2.07(2.38) |
| CDRR75NP-220MC | 220 | 22 \pm 20% | 85m (68m) | 0.96(1.21) | 0.74(0.93) | 1.70(1.93) |
| CDRR75NP-330MC | 330 | 33 \pm 20% | 0.119 (95m) | 0.76(0.96) | 0.60(0.75) | 1.39(1.59) |
| CDRR75NP-470MC | 470 | 47 \pm 20% | 0.190 (0.152) | 0.60(0.75) | 0.48(0.60) | 1.08(1.25) |
| CDRR75NP-680MC | 680 | 68 \pm 20% | 0.256 (0.205) | 0.53(0.67) | 0.43(0.54) | 0.93(1.06) |
| CDRR75NP-101MC | 101 | 100 \pm 20% | 0.315 (0.252) | 0.44(0.55) | 0.35(0.44) | 0.83(0.94) |
| CDRR75NP-151MC | 151 | 150 \pm 20% | 0.485 (0.388) | 0.36(0.46) | 0.29(0.37) | 0.66(0.75) |
| CDRR75NP-221MC | 221 | 220 \pm 20% | 0.721 (0.577) | 0.29(0.37) | 0.25(0.31) | 0.54(0.62) |
| CDRR75NP-331MC | 331 | 330 \pm 20% | 1.050 (0.842) | 0.25(0.32) | 0.20(0.26) | 0.45(0.52) |
| CDRR75NP-471MC | 471 | 470 \pm 20% | 1.416 (1.180) | 0.20(0.26) | 0.16(0.20) | 0.38(0.43) |
| CDRR75NP-681MC | 681 | 680 \pm 20% | 1.866 (1.555) | 0.16(0.20) | 0.12(0.15) | 0.31(0.36) |
| CDRR75NP-102MC | 102 | 1000 \pm 20% | 3.056 (2.546) | 0.14(0.16) | 0.10(0.13) | 0.22(0.26) |

※1. Measuring condition: at 100 kHz.

※2. Saturation current: The value of D.C. current when the inductance decreases to 90% of it's nominal value.

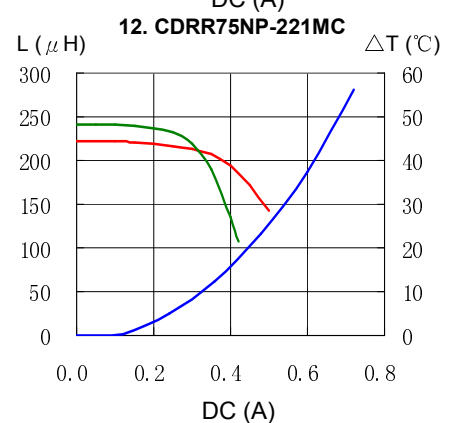
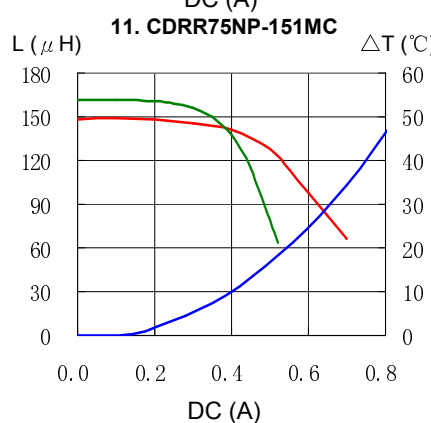
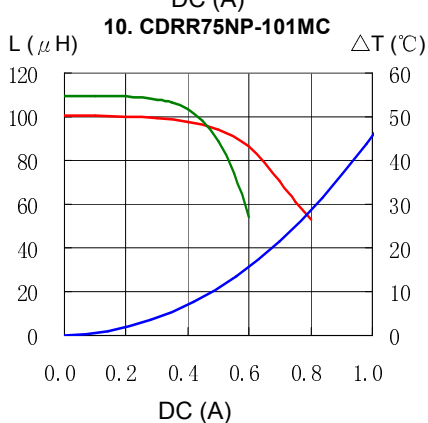
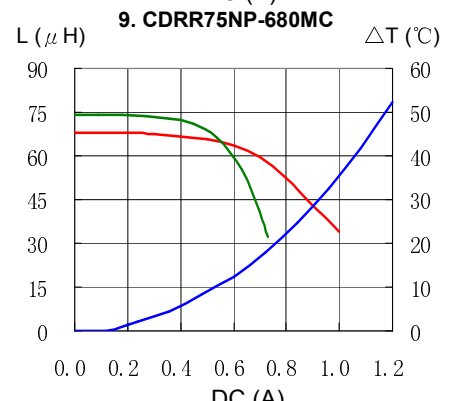
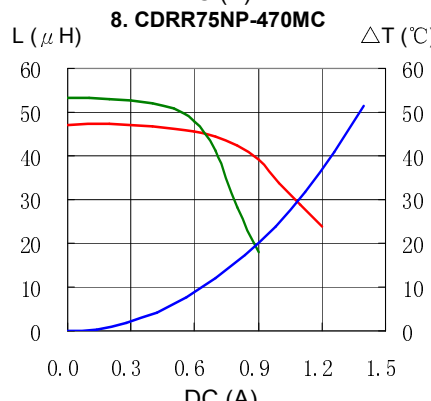
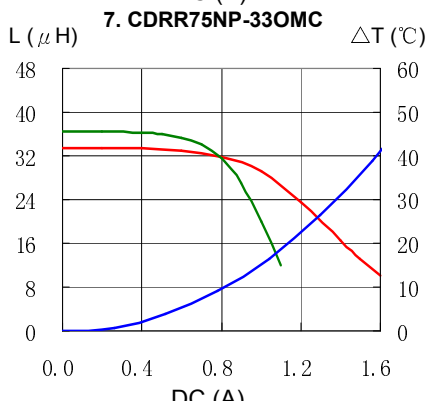
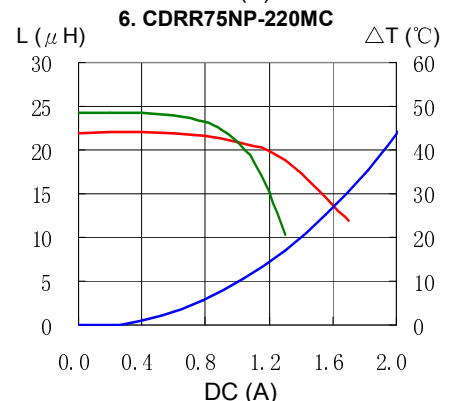
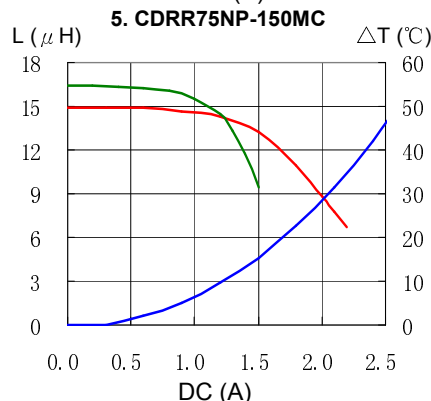
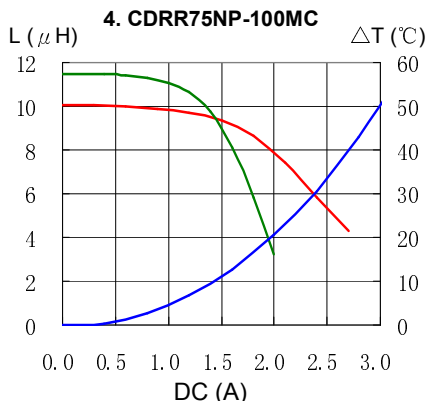
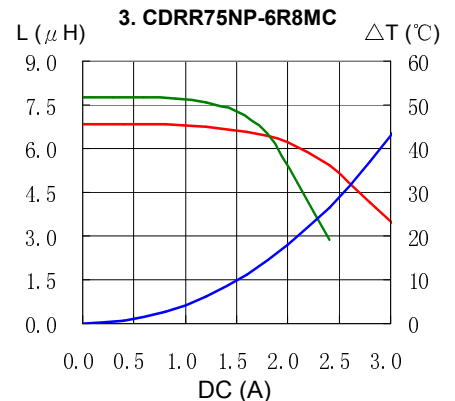
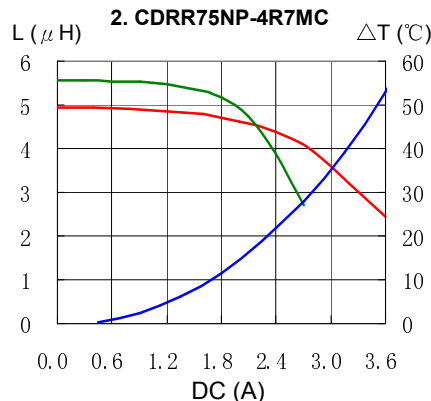
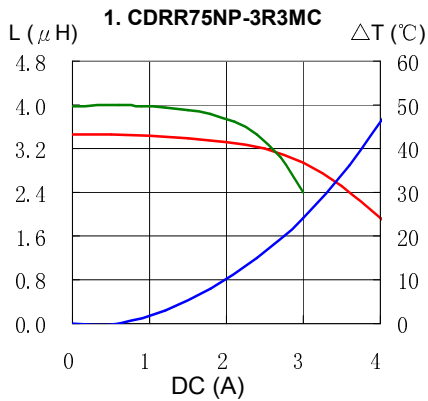
※3. Temperature rise current: The value of D.C. current when the temperature rise is $\Delta t=40^{\circ}\text{C}$ ($T_a=20^{\circ}\text{C}$).

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Saturation Current & Temperature Rise Graph

— L (20°C) — L (125°C) — ΔT

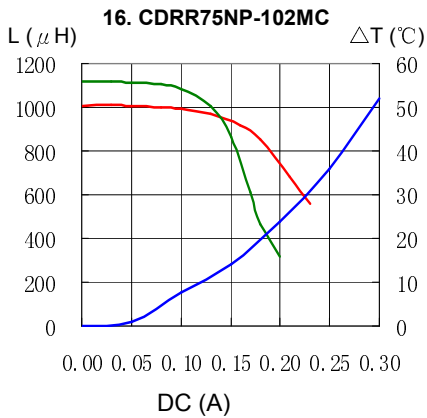
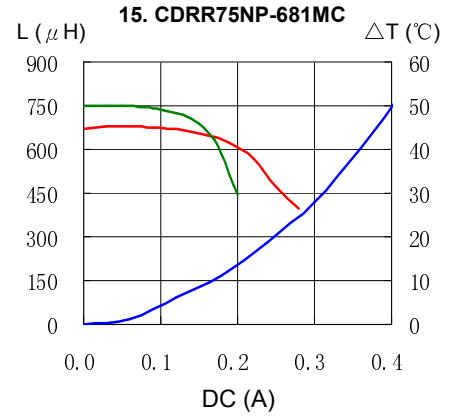
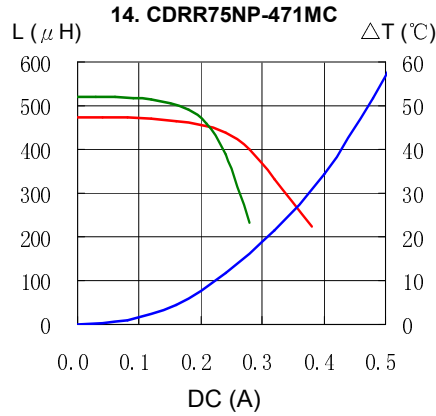
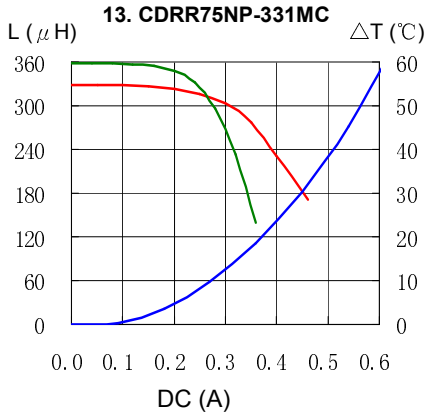


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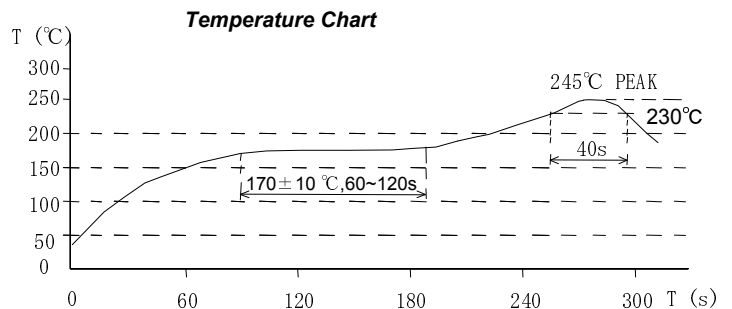
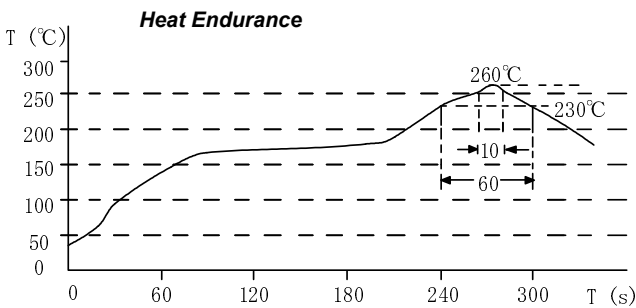


Saturation Current & Temperature Rise Graph

— L (20°C) — L (125°C) — ΔT



Solder Reflow Condition



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