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SMD Power Inductor CDRR128



Halogen Free



Description

- Ferrite drum core construction.
- Magnetically shielded.
- L × W × H: 12.5 × 12.5 × 8.5 mm Max.
- Product weight: 4.2 g(Ref.)
- Moisture Sensitivity Level: 1
- RoHS compliance.
- Halogen Free available.

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.

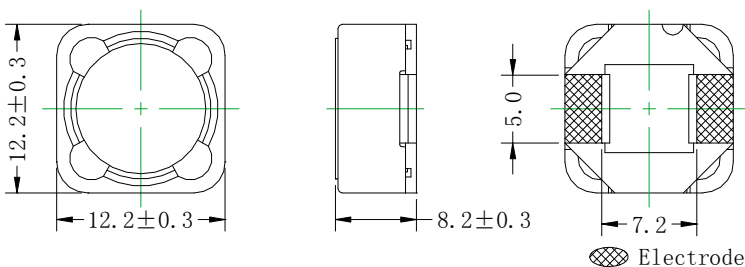
Packaging

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

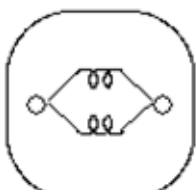
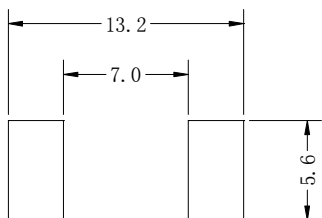
Applications

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

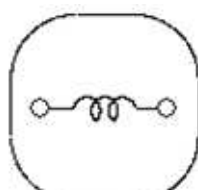
Dimension - [mm]



Land pattern and Schematics - [mm]

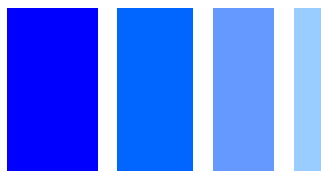


12 μH ~ 100 μH



120 μH ~ 1.0 nH

SMD Power Inductor CDRR128



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 25°C) | (at 125°C) | |
| CDRR128NP-120MC | 120 | 12 \pm 20% | 36m(28.0m) | 7.5(9.4) | 5.9(7.3) | 4.4(5.0) |
| CDRR128NP-150MC | 150 | 15 \pm 20% | 41m(33.0m) | 6.6(8.3) | 5.0(6.3) | 4.2(4.8) |
| CDRR128NP-180MC | 180 | 18 \pm 20% | 44m(35.2m) | 6.2(7.7) | 4.6(5.7) | 3.8(4.3) |
| CDRR128NP-220MC | 220 | 22 \pm 20% | 50m(40.3m) | 5.3(6.6) | 3.8(4.8) | 3.6(4.2) |
| CDRR128NP-270MC | 270 | 27 \pm 20% | 65m(52.0m) | 5.1(6.4) | 3.7(4.6) | 3.1(3.6) |
| CDRR128NP-330MC | 330 | 33 \pm 20% | 72m(57.4m) | 4.9(6.1) | 3.6(4.5) | 3.0(3.4) |
| CDRR128NP-390MC | 390 | 39 \pm 20% | 79m(63.0m) | 4.5(5.7) | 3.4(4.3) | 2.9(3.2) |
| CDRR128NP-470MC | 470 | 47 \pm 20% | 89m(71.0m) | 3.8(4.7) | 2.8(3.6) | 2.8(3.2) |
| CDRR128NP-560MC | 560 | 56 \pm 20% | 103m(82.6m) | 3.7(4.6) | 2.7(3.4) | 2.6(2.9) |
| CDRR128NP-680MC | 680 | 68 \pm 20% | 0.129(0.107) | 3.4(4.2) | 2.6(3.2) | 2.2(2.5) |
| CDRR128NP-820MC | 820 | 82 \pm 20% | 0.155(0.129) | 2.9(3.7) | 2.1(2.7) | 2.0(2.3) |
| CDRR128NP-101MC | 101 | 100 \pm 20% | 0.178(0.147) | 2.6(3.3) | 1.9(2.4) | 1.9(2.1) |
| CDRR128NP-121MC | 121 | 120 \pm 20% | 0.208(0.173) | 2.4(3.0) | 1.7(2.2) | 1.7(1.9) |
| CDRR128NP-151MC | 151 | 150 \pm 20% | 0.238(0.192) | 2.2(2.8) | 1.6(2.0) | 1.6(1.8) |
| CDRR128NP-181MC | 181 | 180 \pm 20% | 0.301(0.25) | 2.0(2.5) | 1.5(1.9) | 1.4(1.6) |
| CDRR128NP-221MC | 221 | 220 \pm 20% | 0.389(0.324) | 1.9(2.4) | 1.4(1.8) | 1.2(1.4) |
| CDRR128NP-271MC | 271 | 270 \pm 20% | 0.487(0.406) | 1.7(2.2) | 1.3(1.6) | 1.0(1.2) |
| CDRR128NP-331MC | 331 | 330 \pm 20% | 0.57(0.453) | 1.6(2.0) | 1.2(1.5) | 0.97(1.1) |
| CDRR128NP-391MC | 391 | 390 \pm 20% | 0.71(0.58) | 1.4(1.8) | 1.1(1.4) | 0.89(1.0) |
| CDRR128NP-471MC | 471 | 470 \pm 20% | 0.80(0.64) | 1.3(1.6) | 0.92(1.2) | 0.88(1.0) |
| CDRR128NP-561MC | 561 | 560 \pm 20% | 0.96(0.793) | 1.1(1.5) | 0.89(1.1) | 0.76(0.88) |
| CDRR128NP-681MC | 681 | 680 \pm 20% | 1.18(0.949) | 1.0(1.3) | 0.83(1.0) | 0.76(0.87) |
| CDRR128NP-821MC | 821 | 820 \pm 20% | 1.48(1.23) | 0.96(1.2) | 0.72(0.90) | 0.63(0.72) |
| CDRR128NP-102MC | 102 | 1000 \pm 20% | 1.82(1.52) | 0.86(1.1) | 0.68(0.85) | 0.58(0.66) |

※1. Measuring condition: at 100 kHz.

※2. Saturation current: The value of D.C. current when the inductance decreases to 75% of its nominal value.

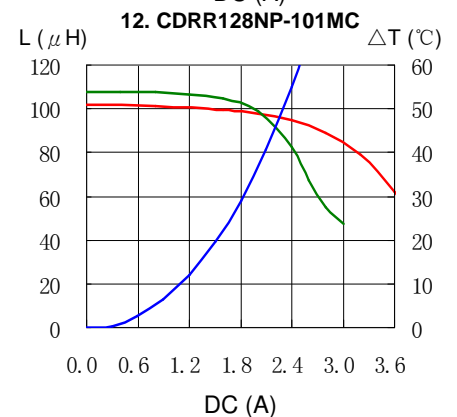
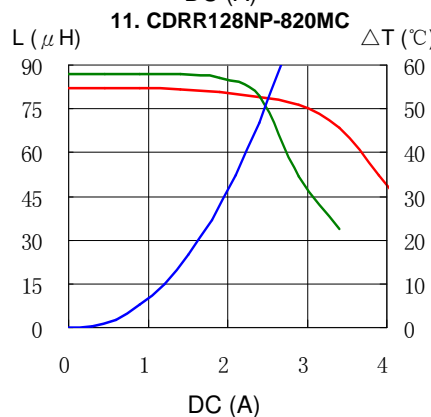
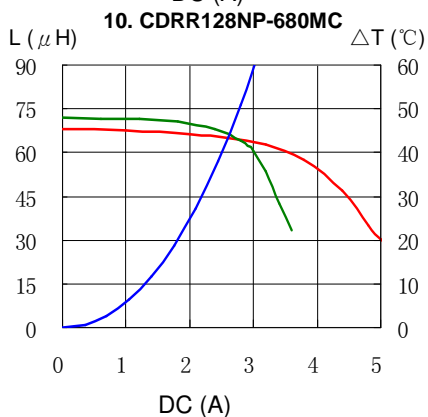
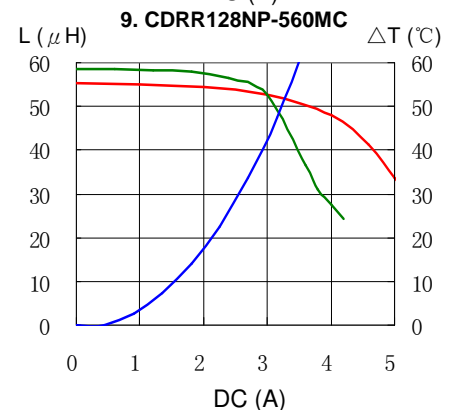
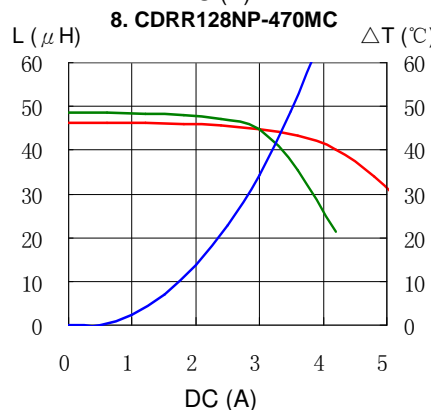
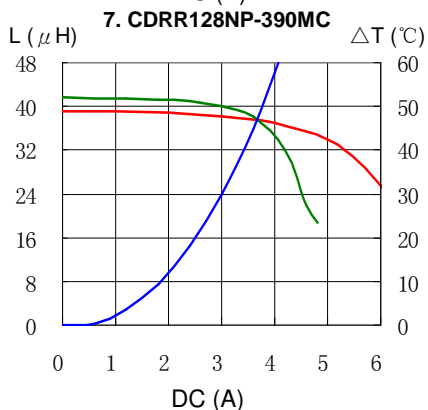
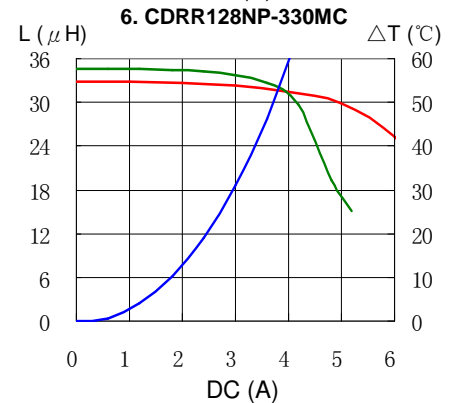
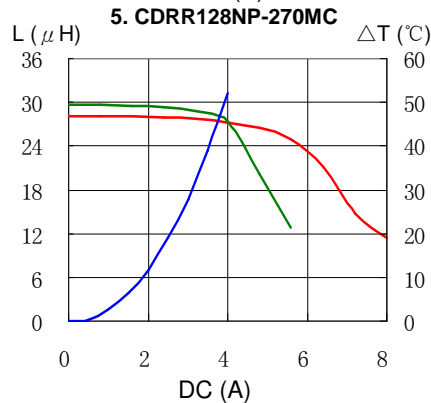
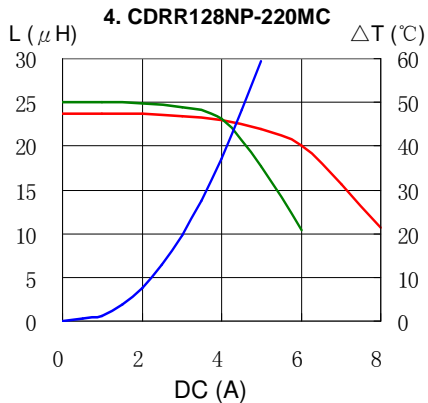
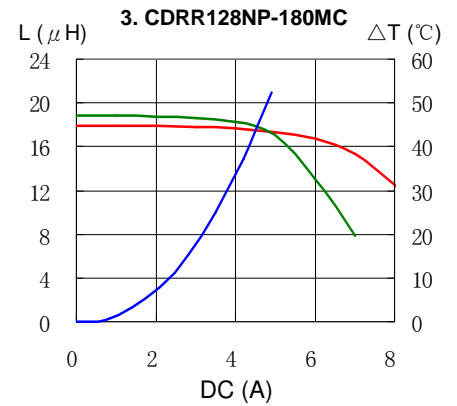
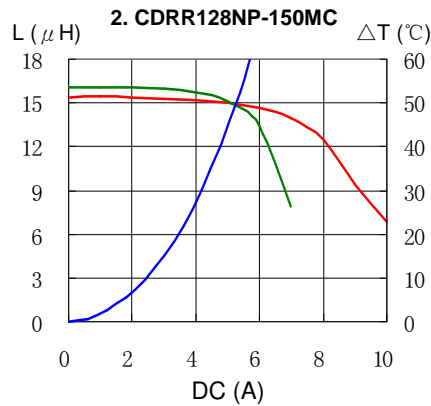
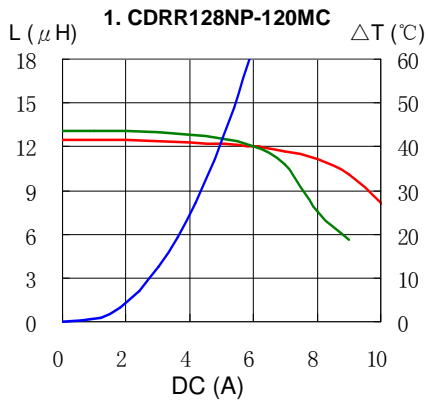
※3. Temperature rise current: The value of D.C. current when the temperature rise is $\Delta t=40^{\circ}\text{C}$ ($T_a=20^{\circ}\text{C}$).

SMD Power Inductor CDRR128



Saturation Current & Temperature Rise Graph

— L (25°C) — L (125°C) — ΔT

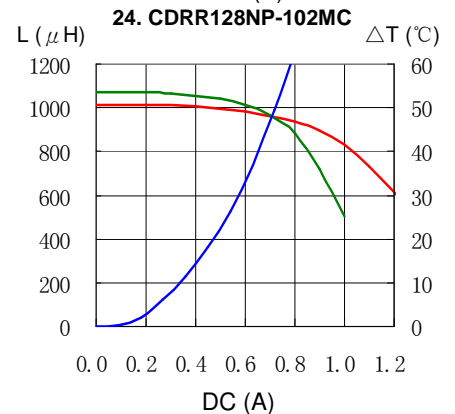
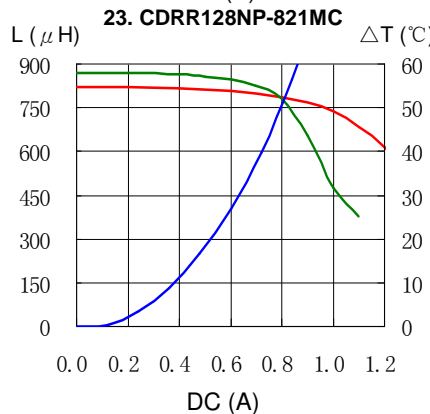
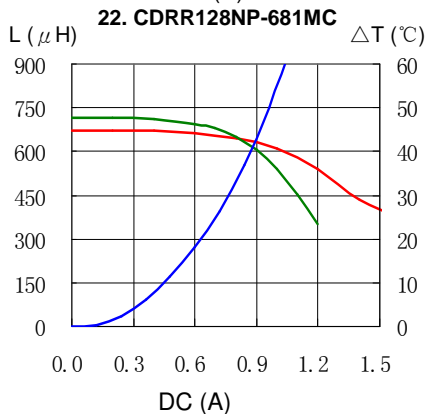
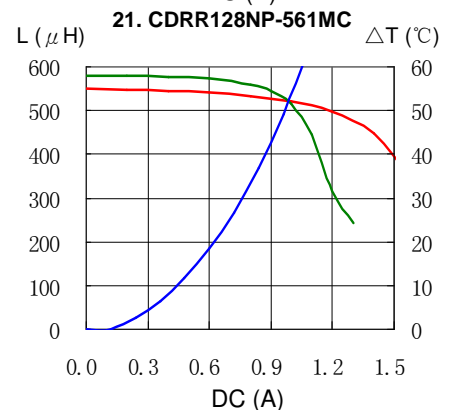
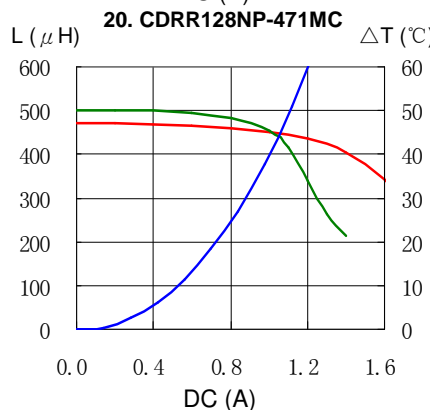
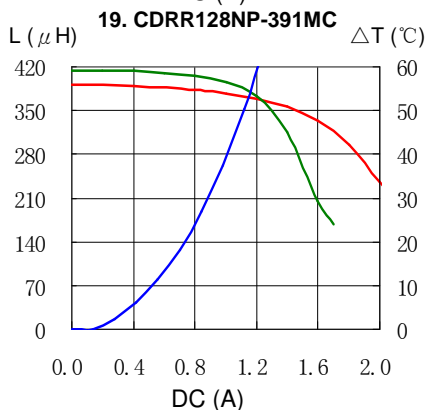
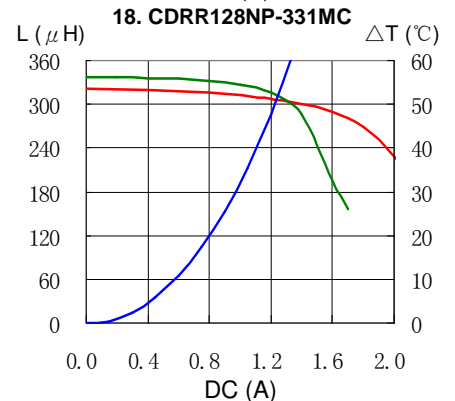
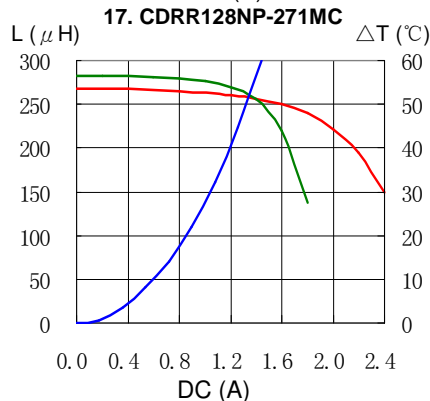
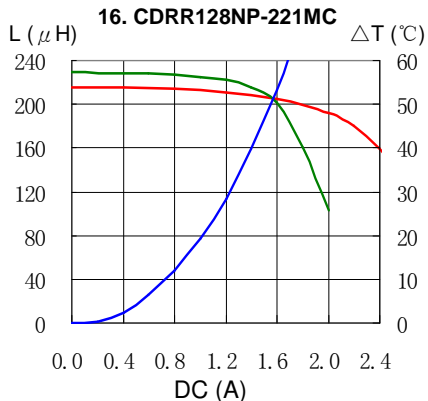
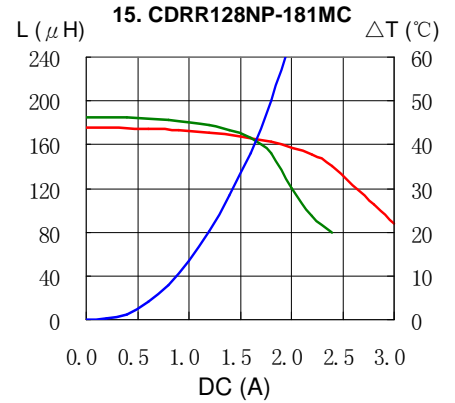
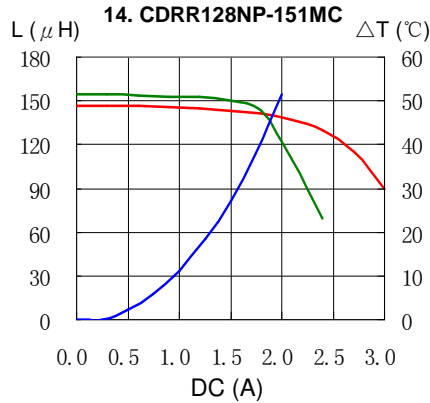
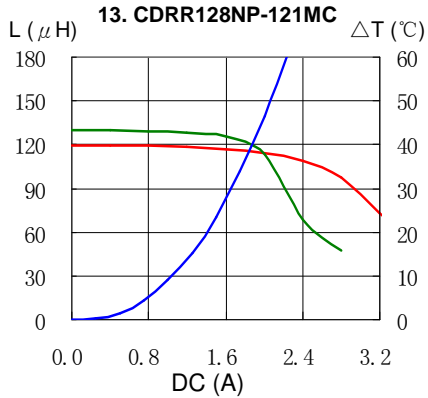


SMD Power Inductor CDRR128



Saturation Current & Temperature Rise Graph

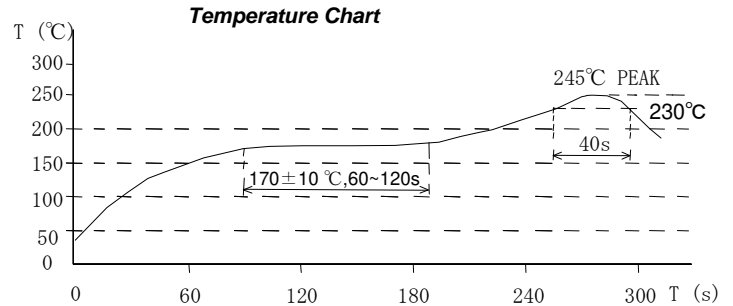
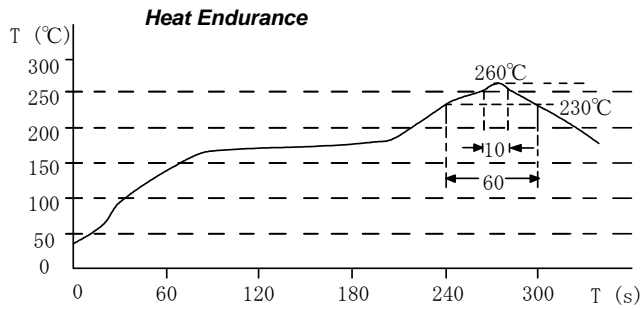
— L (25°C) — L (125°C) — ΔT



SMD Power Inductor CDRR128



Solder Reflow Condition



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