

SMD Power Inductor

CDRH127



Recommended Type

Description

- Ferrite drum core construction
- Magnetically shielded
- LxWxH: 12.3x12.3x8.0 mm Max.
- Product weight: 3.6g(Ref.)
- Moisture Sensitivity Level: 1
- RoHS compliance



Environmental Data

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

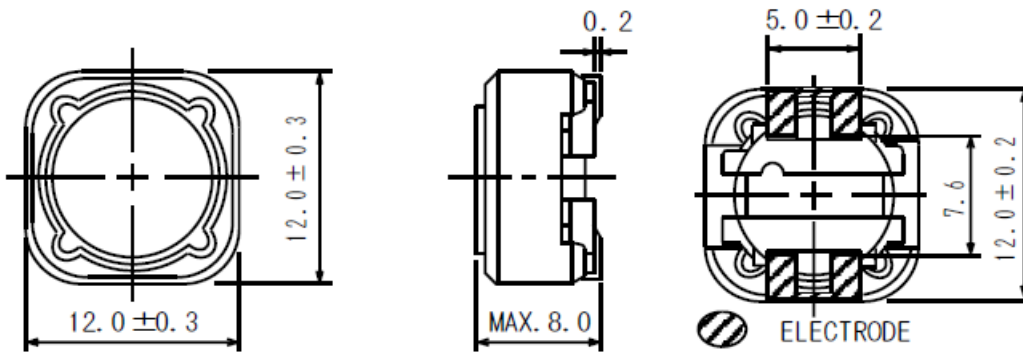
Packaging

- Carrier tape and reel packaging
- 13" diameter reel
- 500pcs per reel

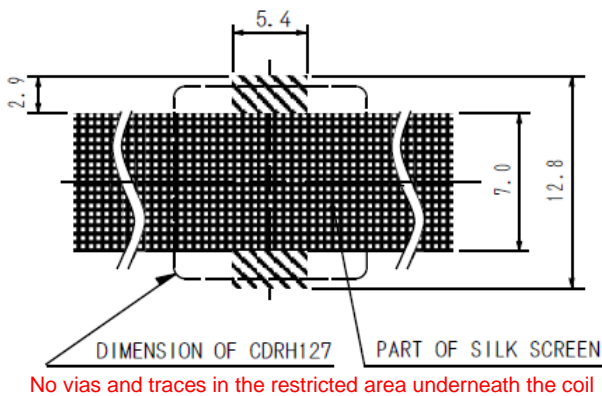
Applications

- Ideally used in notebook PC, LCD TV, DVD, game machine, STB, projector etc. as converter inductor

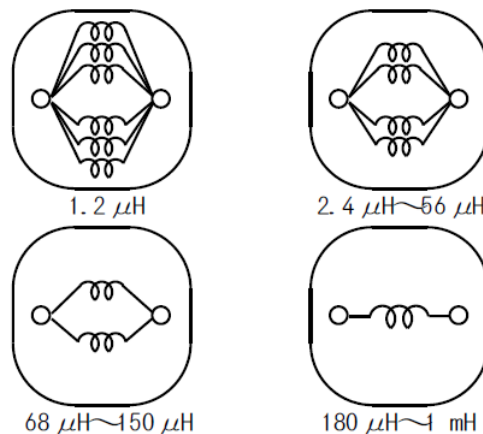
Dimension - [mm]



Recommended Land pattern - [mm]



Wire Connection



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Electrical Characteristics

| Part Number | Stamp | Inductance [Within] (μ H) ※1 | D.C.R. at 20°C Max. (Typ.) (m Ω) | Saturation Current (A) Max. (Typ.) ※2 | Temperature Rise Current (A) Max. (Typ.) ※3 |
|-----------------|-------|---|--|--|--|
| CDRH127NP-1R2NC | 1R2 | 1.2 μ H \pm 20% | 7.0m (5.2m) | 19.2 (24.0) | 11.30 |
| CDRH127NP-2R4NC | 2R4 | 2.4 μ H \pm 20% | 11.5m (8.5m) | 15.2 (19.0) | 8.90 |
| CDRH127NP-3R5NC | 3R5 | 3.5 μ H \pm 20% | 13.5m (10.0m) | 12.4 (15.5) | 8.40 |
| CDRH127NP-4R7NC | 4R7 | 4.7 μ H \pm 20% | 15.8m (11.7m) | 11.3 (14.2) | 7.80 |
| CDRH127NP-6R1NC | 6R1 | 6.1 μ H \pm 20% | 17.6m (13.0m) | 9.40 (11.8) | 7.20 |
| CDRH127NP-7R6NC | 7R6 | 7.6 μ H \pm 20% | 20.0m (15.0m) | 8.80 (11.0) | 6.50 |
| CDRH127NP-100MC | 100 | 10 μ H \pm 20% | 21.6m (16.0m) | 7.60 (9.50) | 6.30 |
| CDRH127NP-120MC | 120 | 12 μ H \pm 20% | 24.3m (18.0m) | 7.30 (9.20) | 5.80 |
| CDRH127NP-150MC | 150 | 15 μ H \pm 20% | 27.0m (20.0m) | 6.20 (7.80) | 5.50 |
| CDRH127NP-180MC | 180 | 18 μ H \pm 20% | 39.2m (29.0m) | 5.60 (7.10) | 4.90 |
| CDRH127NP-220MC | 220 | 22 μ H \pm 20% | 43.2m (32.0m) | 5.10 (6.40) | 4.40 |
| CDRH127NP-270MC | 270 | 27 μ H \pm 20% | 45.9m (34.0m) | 4.70 (5.90) | 3.90 |
| CDRH127NP-330MC | 330 | 33 μ H \pm 20% | 64.8m (48.0m) | 4.20 (5.30) | 3.50 |
| CDRH127NP-390MC | 390 | 39 μ H \pm 20% | 72.9m (54.0m) | 4.00 (5.00) | 3.40 |
| CDRH127NP-470MC | 470 | 47 μ H \pm 20% | 0.10 (76.0m) | 3.60 (4.50) | 3.20 |
| CDRH127NP-560MC | 560 | 56 μ H \pm 20% | 0.11 (83.0m) | 3.00 (3.80) | 2.80 |
| CDRH127NP-680MC | 680 | 68 μ H \pm 20% | 0.14 (0.10) | 2.80 (3.50) | 2.50 |
| CDRH127NP-820MC | 820 | 82 μ H \pm 20% | 0.16 (0.12) | 2.56 (3.20) | 2.35 |
| CDRH127NP-101MC | 101 | 100 μ H \pm 20% | 0.22 (0.17) | 2.40 (3.00) | 2.05 |
| CDRH127NP-121MC | 121 | 120 μ H \pm 20% | 0.25 (0.18) | 2.28 (2.85) | 1.95 |
| CDRH127NP-151MC | 151 | 150 μ H \pm 20% | 0.28 (0.21) | 1.96 (2.45) | 1.80 |
| CDRH127NP-181MC | 181 | 180 μ H \pm 20% | 0.35 (0.26) | 1.84 (2.30) | 1.68 |
| CDRH127NP-221MC | 221 | 220 μ H \pm 20% | 0.39 (0.29) | 1.60 (2.00) | 1.55 |
| CDRH127NP-271MC | 271 | 270 μ H \pm 20% | 0.56 (0.42) | 1.48 (1.85) | 1.40 |
| CDRH127NP-331MC | 331 | 330 μ H \pm 20% | 0.64 (0.47) | 1.32 (1.65) | 1.30 |
| CDRH127NP-391MC | 391 | 390 μ H \pm 20% | 0.70 (0.52) | 1.24 (1.55) | 1.20 |
| CDRH127NP-471MC | 471 | 470 μ H \pm 20% | 0.98 (0.73) | 1.12 (1.40) | 1.08 |
| CDRH127NP-561MC | 561 | 560 μ H \pm 20% | 1.07 (0.79) | 1.02 (1.28) | 0.98 |
| CDRH127NP-681MC | 681 | 680 μ H \pm 20% | 1.46 (1.12) | 0.96 (1.20) | 0.82 |

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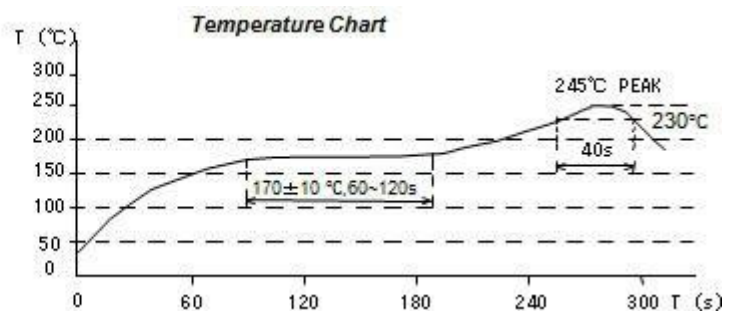
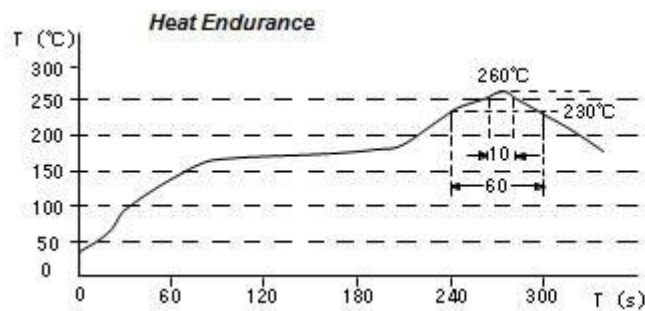
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|-----------------|-----|-----------------------|-------------|-------------|------|
| CDRH127NP-821MC | 821 | 820 μ H \pm 20% | 1.64 (1.26) | 0.86 (1.08) | 0.75 |
| CDRH127NP-102MC | 102 | 1.0mH \pm 20% | 1.82 (1.40) | 0.77 (0.96) | 0.70 |

※1. Measured frequency: 1.2 μ H ~ 7.6 μ H at 100 kHz; 10 μ H ~ 1mH at 1 kHz

※2. Saturation current: This indicates the value of D.C. current when the inductance becomes 25% lower than its initial value. (Ta = 20°C)

※3. Temperature rise current: The actual value of D.C. current when the temperature of coil becomes $\Delta T=40^\circ\text{C}$ (Ta = 20°C).

Solder Reflow Condition



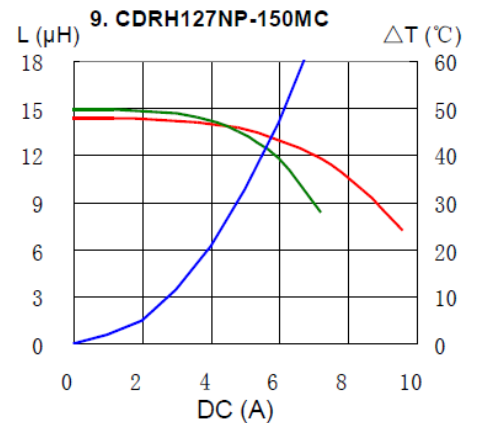
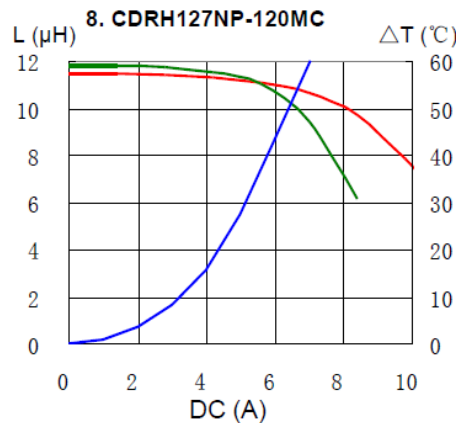
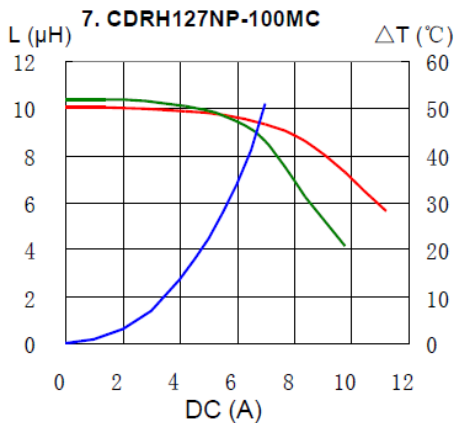
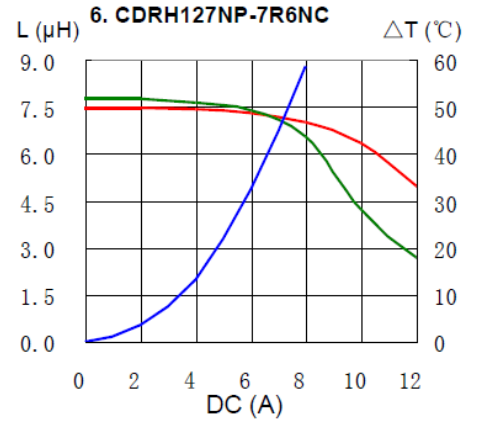
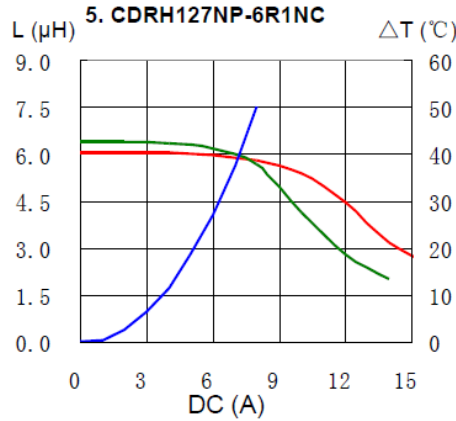
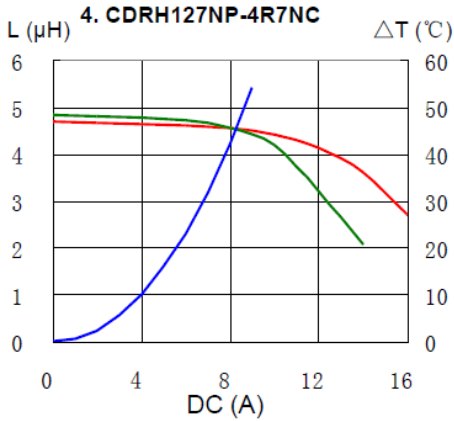
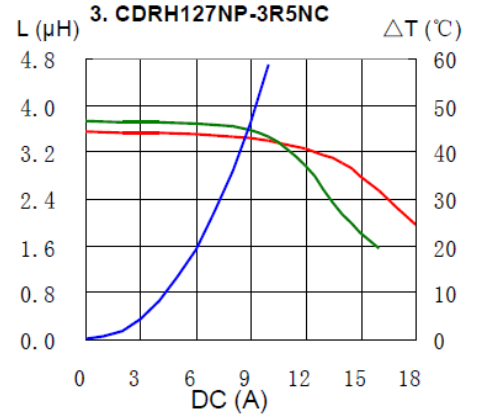
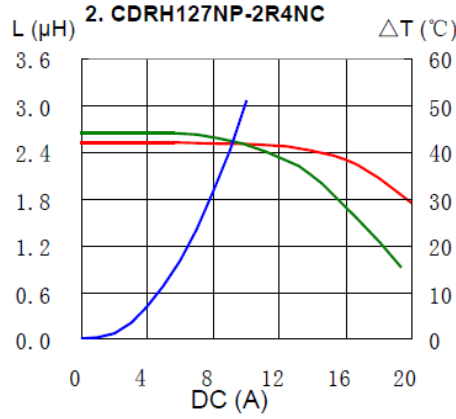
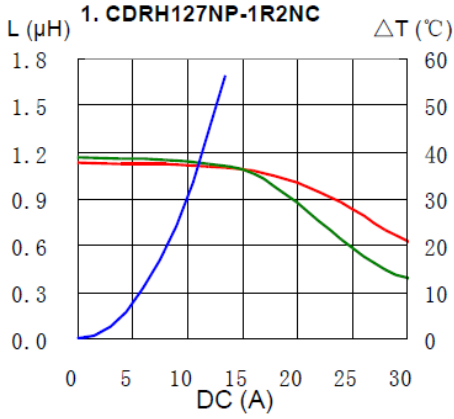
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Saturation Current & Temperature Rise Graph

— L (20°C) — L (100°C) — ΔT

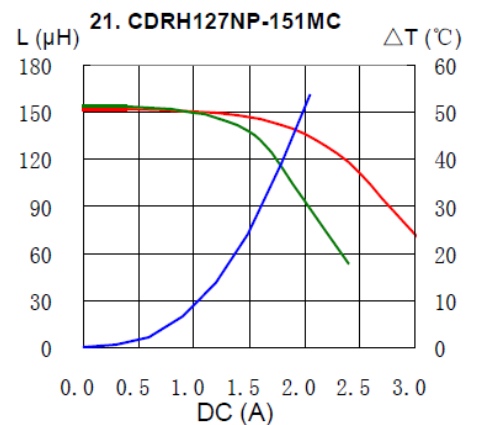
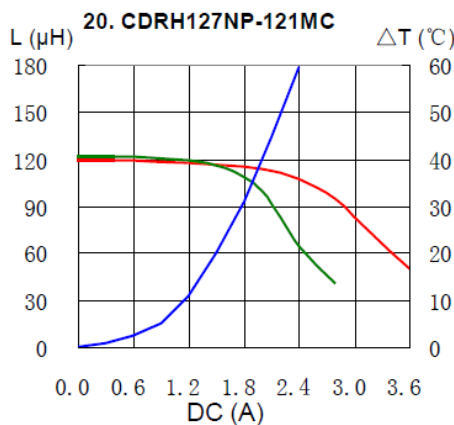
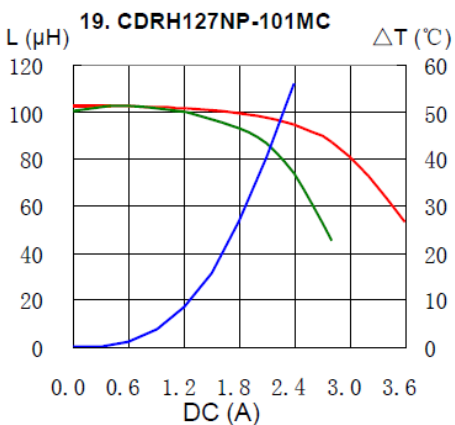
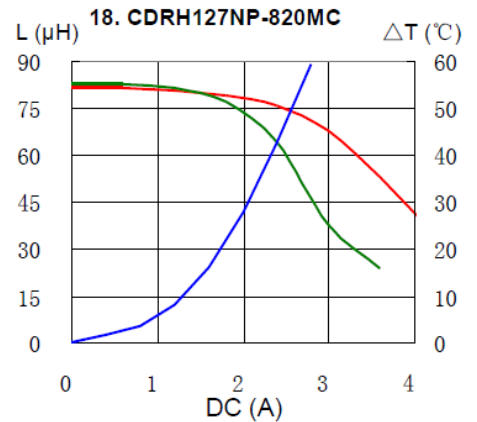
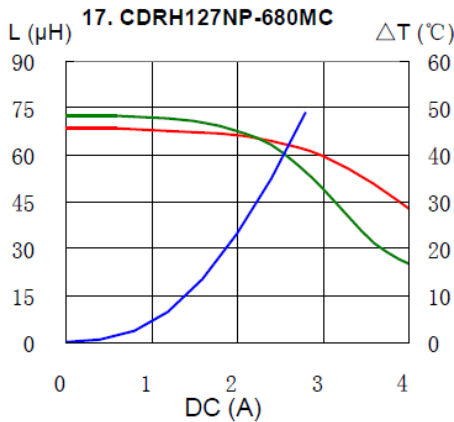
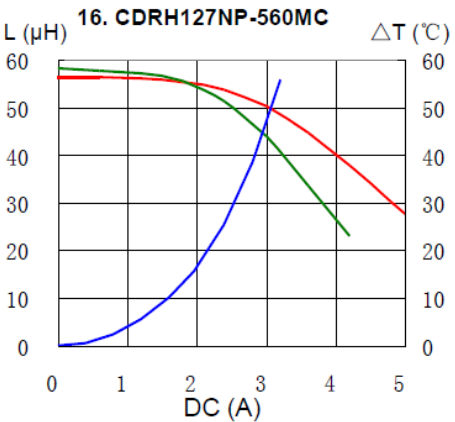
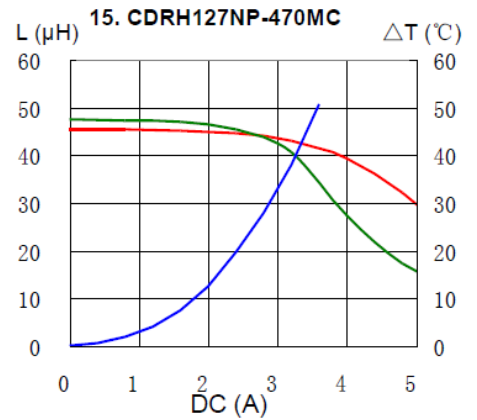
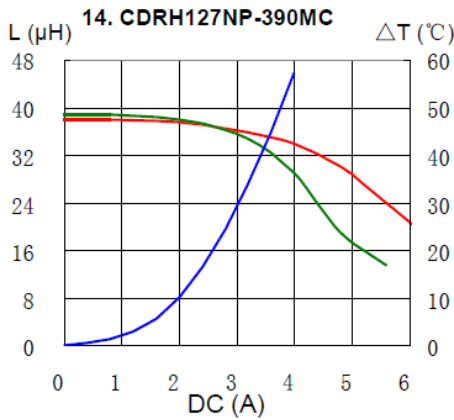
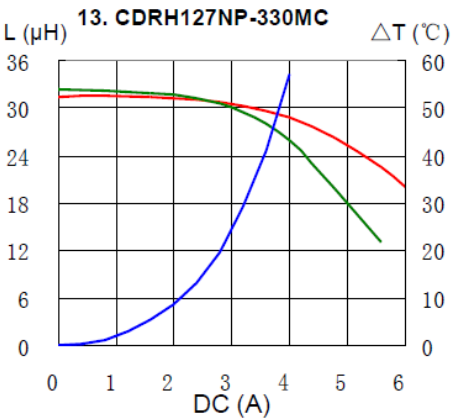
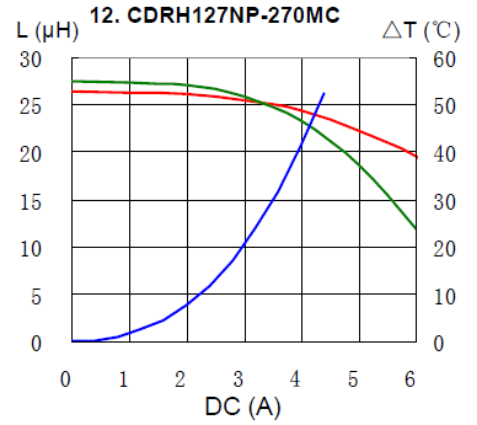
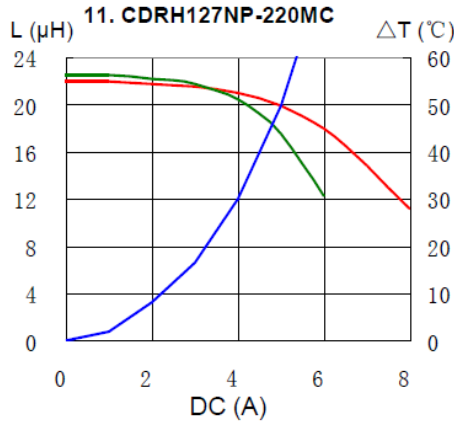
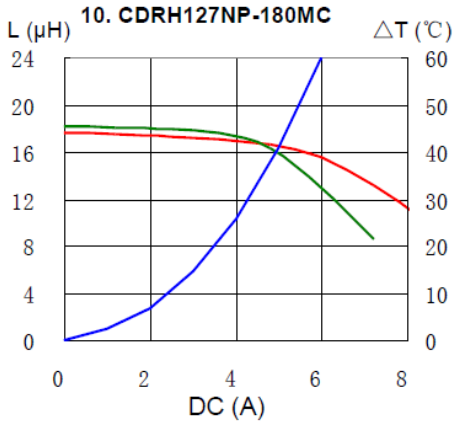


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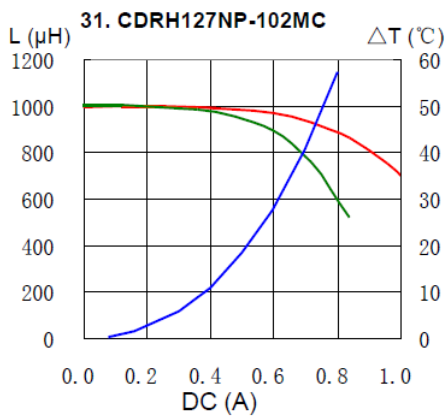
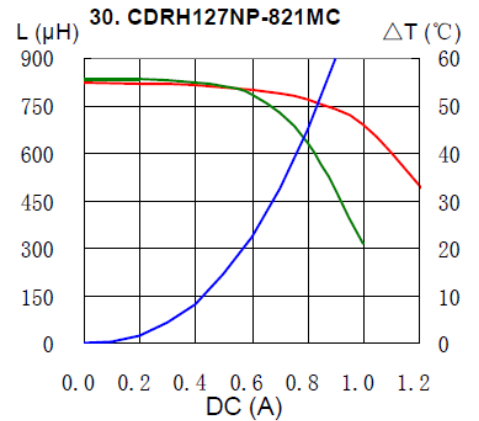
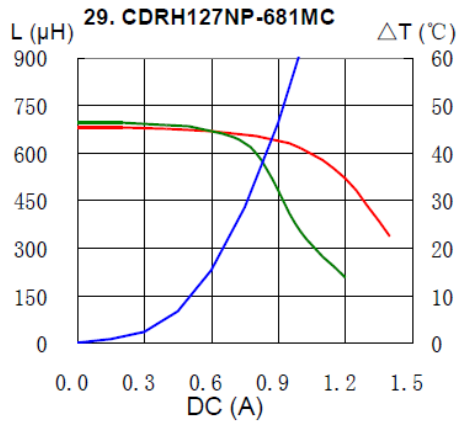
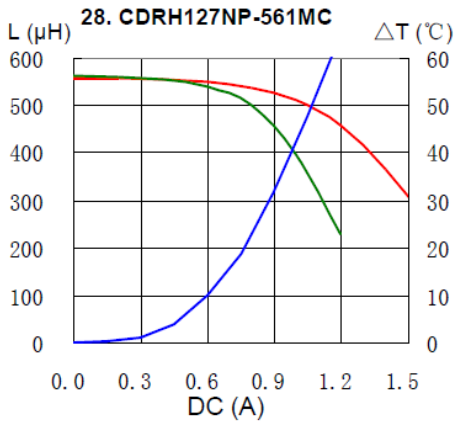
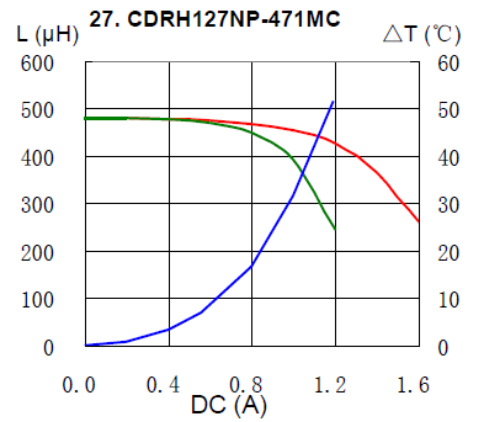
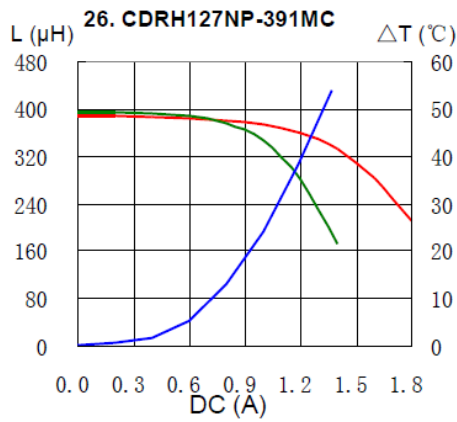
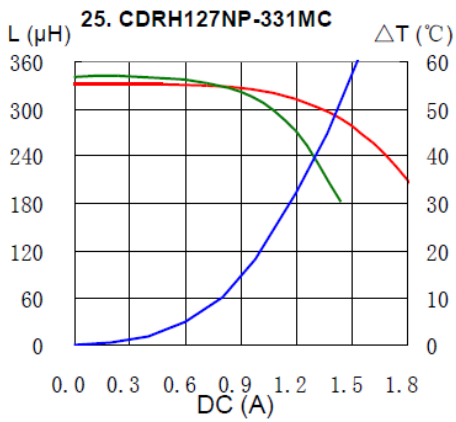
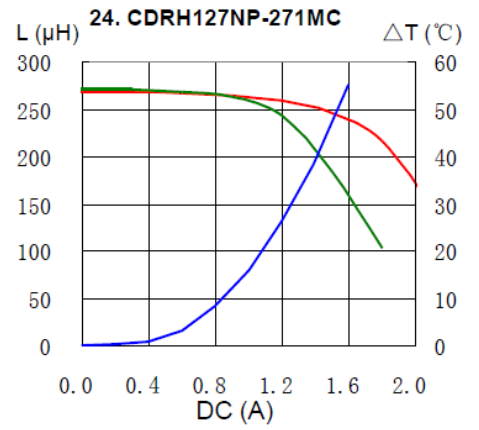
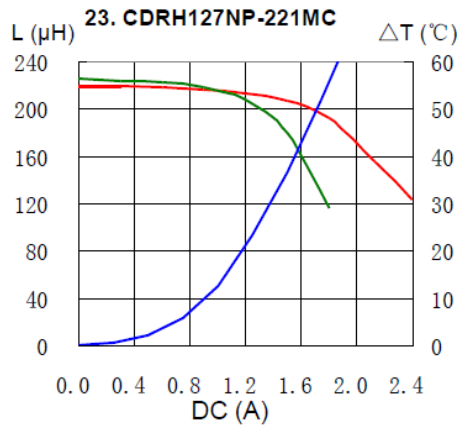
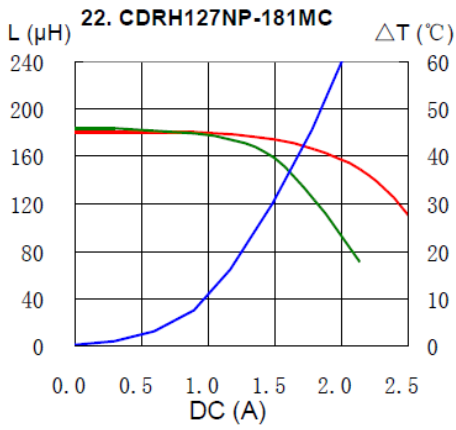
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