



**THE DATASHEET OF
CDRH4D28CLDNP-100PC**



SMD Power Inductor CDRH4D28C/LD



Description

- Ferrite drum core construction.
- Magnetically shielded.
- L × W × H: 5.1 × 5.1 × 3.0 mm Max.
- Product weight: 0.21g(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.

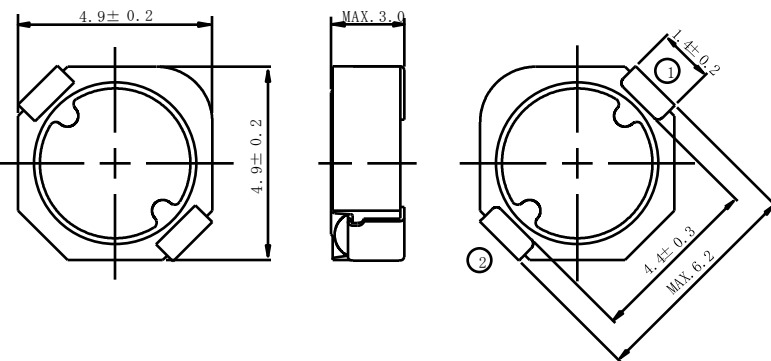
Packaging

- Carrier tape and reel packaging
- 12.9" diameter reel
- 2000pcs per reel

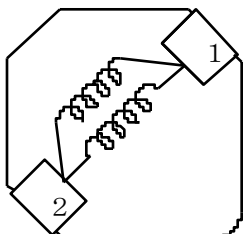
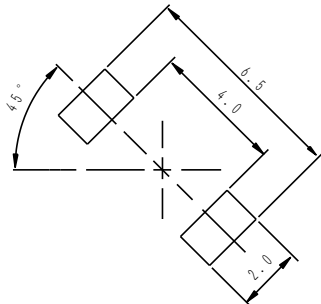
Applications

- Ideally used in Mobile phone, PDA, MP3, HDD, DSC/DVC, Note book PC, etc as DC-DC converter inductors.

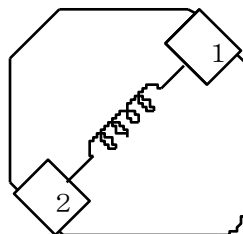
Dimension - [mm]



Land pattern and Schematics - [mm]



(1.0µH ~ 6.8µH)



(10µH ~ 100µH)



Electrical Characteristics

| Part No. | Stamp | Inductance (μH) [within] ※1 | D.C.R (m Ω) Max. (Typ.) (20°C) | Saturation Current (A) ※2 | Temperature Rise Current (A) ※3 |
|---------------------|-------|--|--|---------------------------------|---------------------------------------|
| CDRH4D28CLDNP-1R0PC | A | 1.0 \pm 25% | 17.5(14) | 3.0 | 4.9 |
| CDRH4D28CLDNP-2R2PC | B | 2.2 \pm 25% | 23.8(19) | 2.0 | 3.6 |
| CDRH4D28CLDNP-3R3PC | C | 3.3 \pm 25% | 28.9(23) | 1.6 | 3.2 |
| CDRH4D28CLDNP-4R7PC | D | 4.7 \pm 25% | 36.3(29) | 1.5 | 2.9 |
| CDRH4D28CLDNP-6R8PC | E | 6.8 \pm 25% | 48.8(39) | 1.2 | 2.4 |
| CDRH4D28CLDNP-100PC | F | 10 \pm 25% | 67.5(54) | 0.90 | 1.8 |
| CDRH4D28CLDNP-150PC | G | 15 \pm 25% | 93.4(75) | 0.81 | 1.6 |
| CDRH4D28CLDNP-220PC | H | 22 \pm 25% | 140(112) | 0.65 | 1.25 |
| CDRH4D28CLDNP-330PC | I | 33 \pm 25% | 223(179) | 0.55 | 0.92 |
| CDRH4D28CLDNP-470PC | J | 47 \pm 25% | 272(218) | 0.43 | 0.86 |
| CDRH4D28CLDNP-680PC | K | 68 \pm 25% | 366(293) | 0.36 | 0.72 |
| CDRH4D28CLDNP-101PC | L | 100 \pm 25% | 520(416) | 0.30 | 0.61 |

※1. Inductance measuring condition: at 100kHz.

※2. Saturation current: The value of D.C. current when the inductance decreases to 65% of it's nominal value.

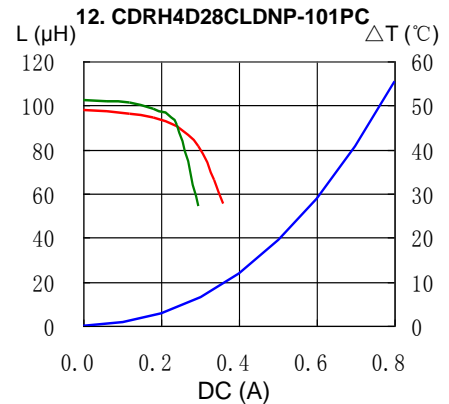
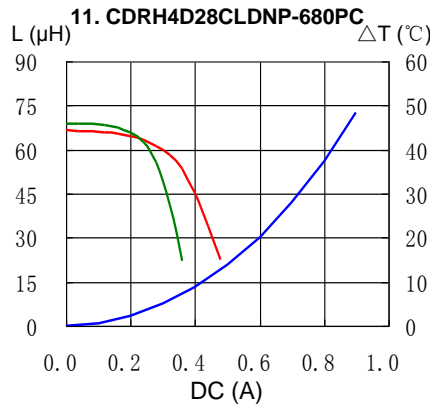
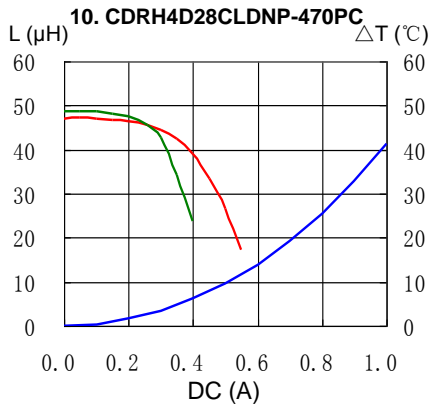
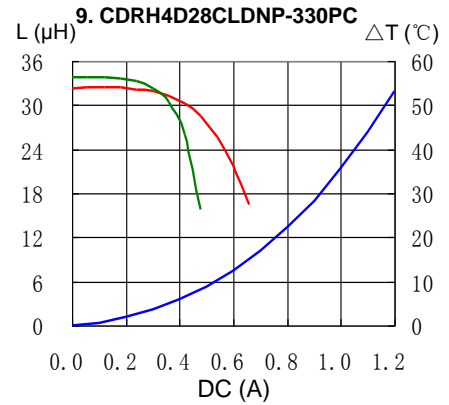
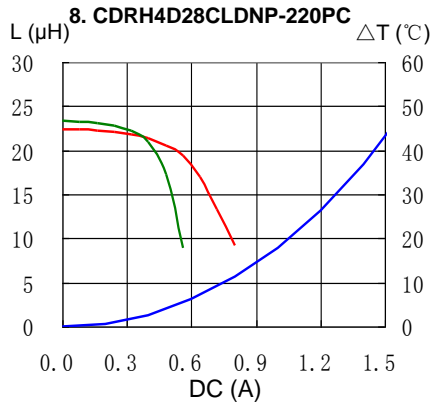
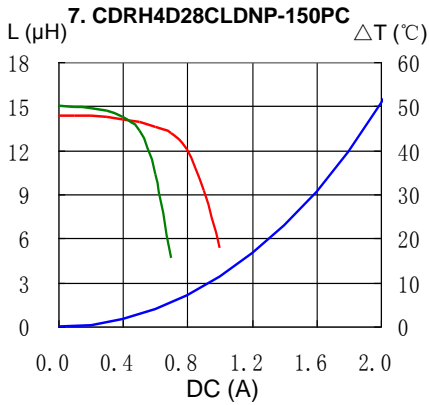
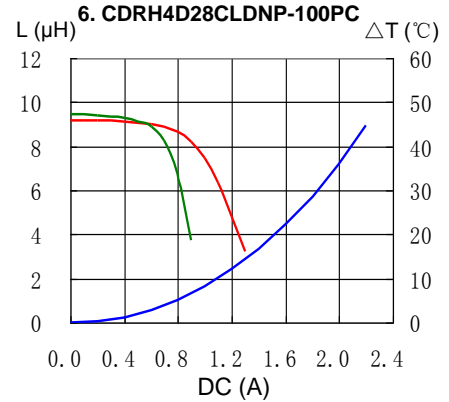
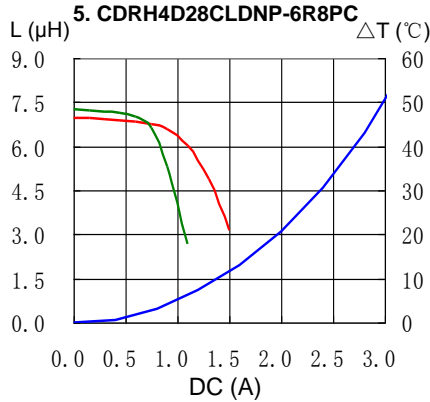
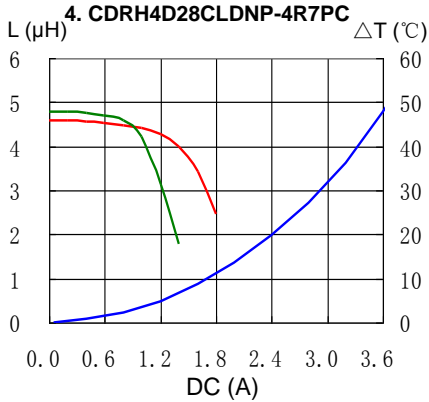
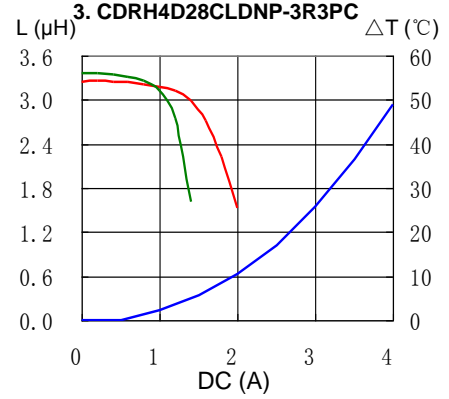
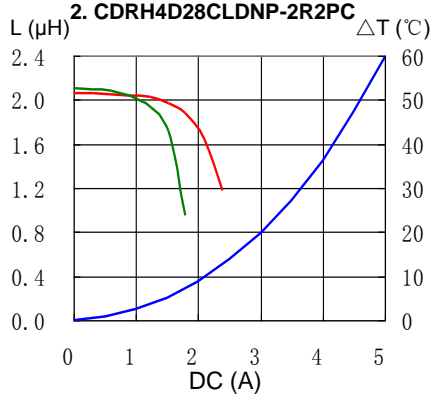
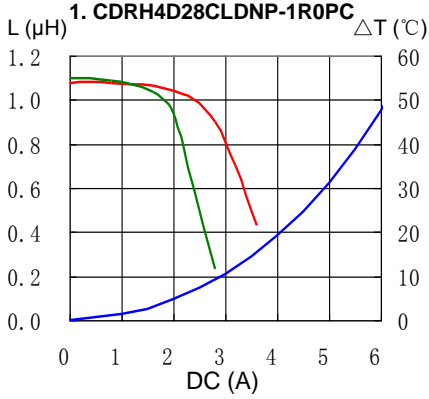
※3. Temperature rise current: The value of D.C. current when the temperature rise is $\Delta t = 40^\circ\text{C}$ ($T_a = 20^\circ\text{C}$).

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Saturation Current & Temperature Rise Graph

— L (20°C) — L (100°C) — ΔT

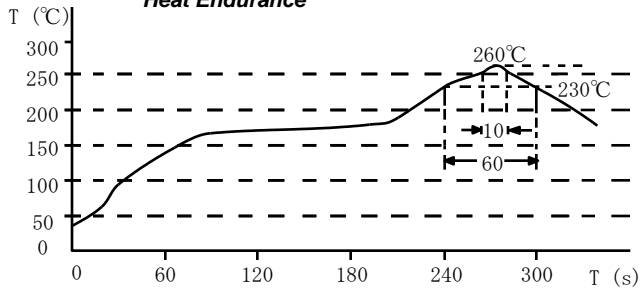


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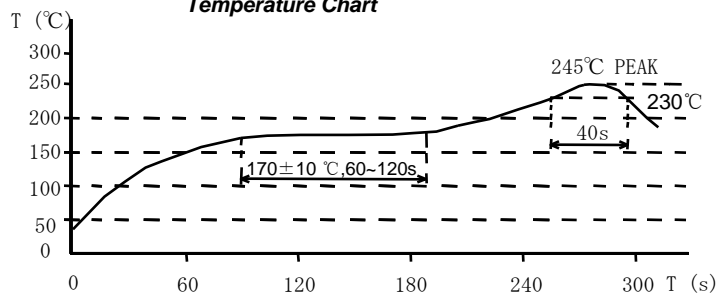


Solder Reflow Condition

Heat Endurance



Temperature Chart



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