

SMD Power Inductor CDH30D14D/SHP



Halogen Free



Description

- Ferrite drum core construction.
- Magnetically unshielded.
- L × W × H: 3.2 × 3.15 × 1.5 mm Max.
- Product weight: 42mg(Ref.)
- Moisture Sensitivity Level: 1
- RoHS compliance.
- Halogen Free available.

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.

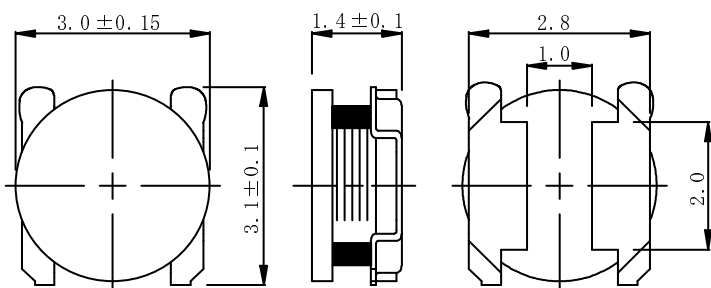
Packaging

- Carrier tape and reel packaging.
- 13.0" diameter reel
- 4000pcs per reel

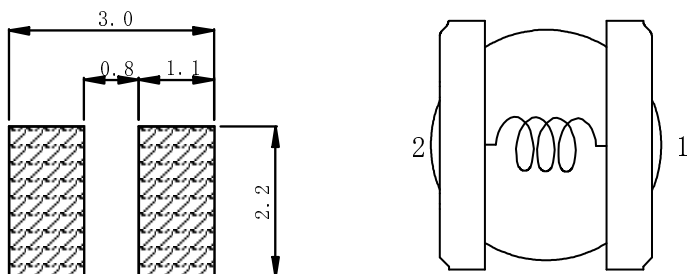
Applications

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

Dimension - [mm]



Land pattern and Schematics - [mm]



Electrical Characteristics

| Part No. | Stamp | Inductance (μ H) [Within] ※1 | D.C.R. (m Ω) [Within] (at20°C) | Saturation current (A) ※2 | | Temperature rise current (A) ※3 |
|----------------------|-------|--------------------------------------|--|---------------------------|-----------|---------------------------------|
| | | | | (at20°C) | (at105°C) | |
| CDH30D14DSHPHF-R68NC | L | 0.68 ± 30% | 35 ± 25% | 3.60 | 2.84 | 2.80 |
| CDH30D14DSHPHF-1R0NC | A | 1.0 ± 30% | 50 ± 25% | 2.92 | 2.32 | 2.20 |
| CDH30D14DSHPHF-1R5NC | B | 1.5 ± 30% | 75 ± 25% | 2.44 | 2.00 | 1.80 |
| CDH30D14DSHPHF-2R2NC | C | 2.2 ± 30% | 110 ± 20% | 2.00 | 1.64 | 1.40 |
| CDH30D14DSHPHF-3R3MC | D | 3.3 ± 20% | 155 ± 20% | 1.64 | 1.36 | 1.22 |
| CDH30D14DSHPHF-4R7MC | E | 4.7 ± 20% | 255 ± 20% | 1.33 | 1.06 | 0.91 |
| CDH30D14DSHPHF-6R8MC | F | 6.8 ± 20% | 400 ± 20% | 1.14 | 0.90 | 0.70 |
| CDH30D14DSHPHF-100MC | G | 10 ± 20% | 620 ± 20% | 0.91 | 0.72 | 0.56 |

※1. Measuring condition: at 100kHz.

※2. Saturation current: The value of D.C. current when the inductance decreases to 70% of it's nominal value.

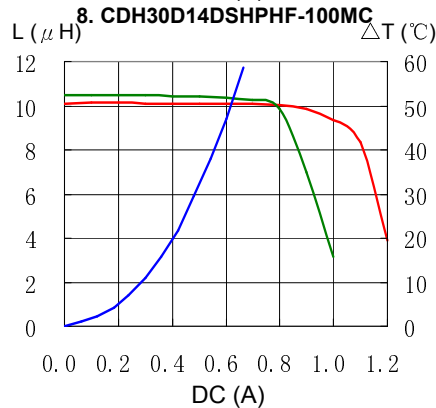
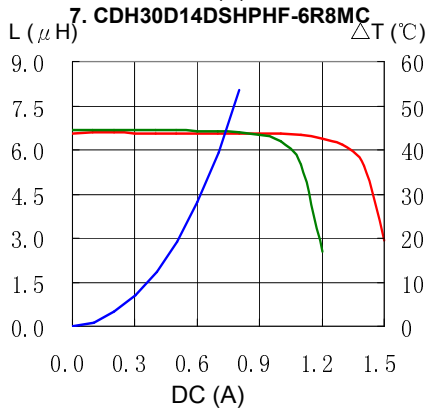
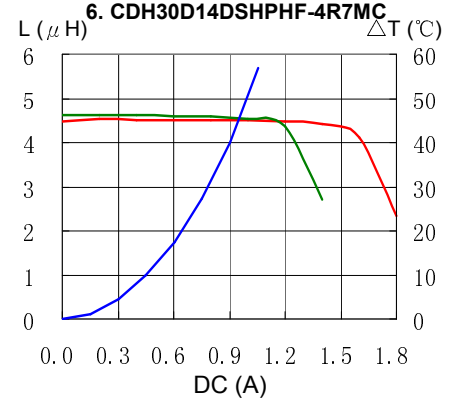
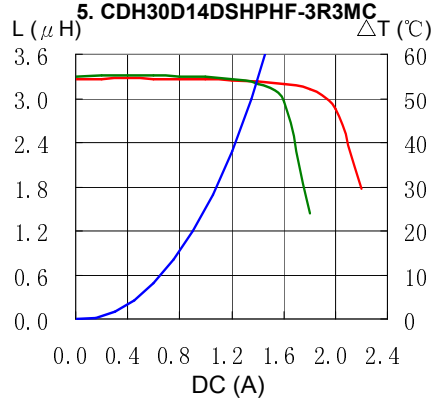
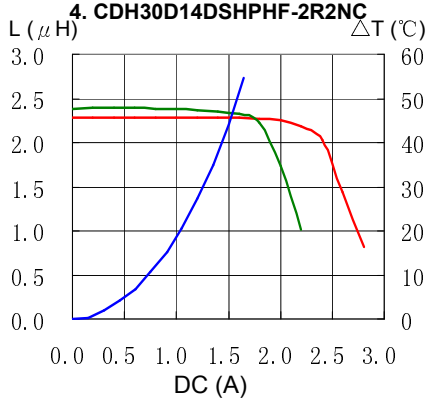
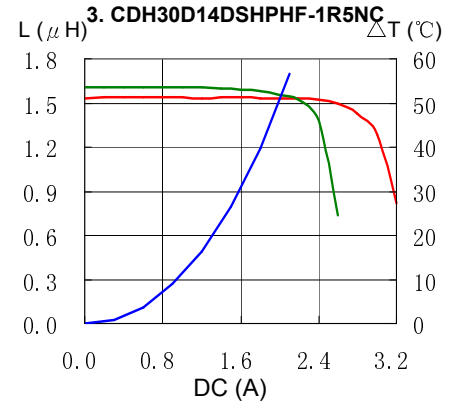
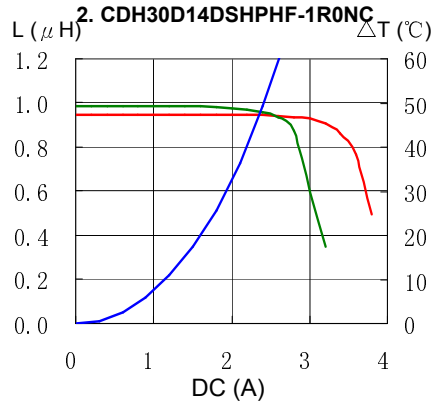
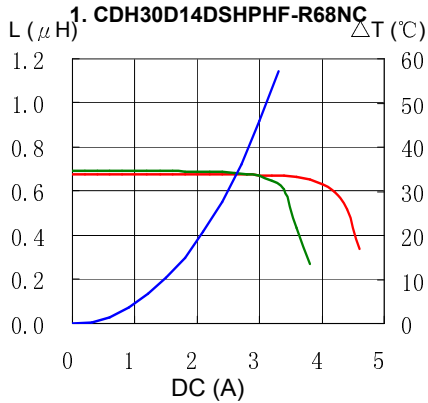
※3. Temperature rise current: The value of D.C. current when the temperature rise is $\Delta t=40^{\circ}\text{C}$ ($T_a=20^{\circ}\text{C}$).

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Saturation Current & Temperature Rise Graph

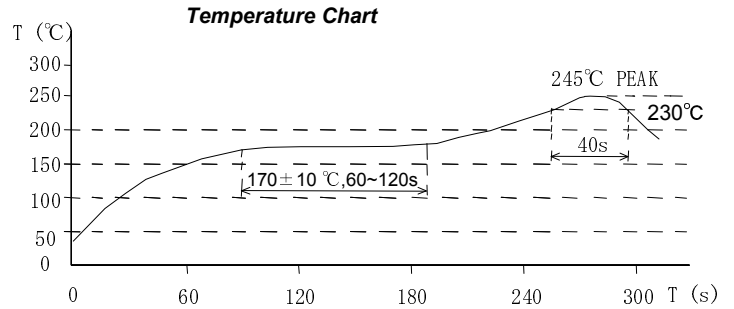
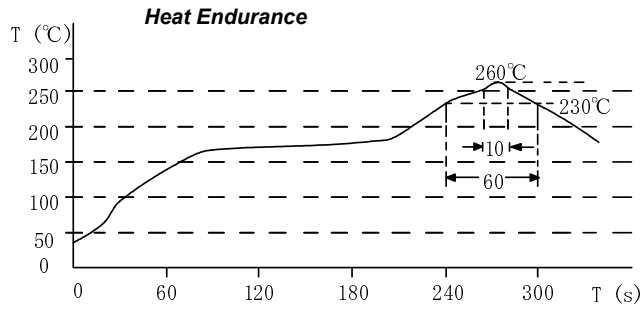
— L (20°C) — L (105°C) — ΔT



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Solder Reflow Condition



Please refer to the sales offices on our website - <http://www.sumida.com>

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