



**THE DATASHEET OF
CDPH28D11FHF-3R3MC**



SMD Power Inductor CDPH28D11F



Halogen Free



Description

- Ferrite core construction.
- Magnetically shielded.
- L × W × H: 3.2 × 3.0 × 1.2mm Max.
- Product weight: 34mg(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.

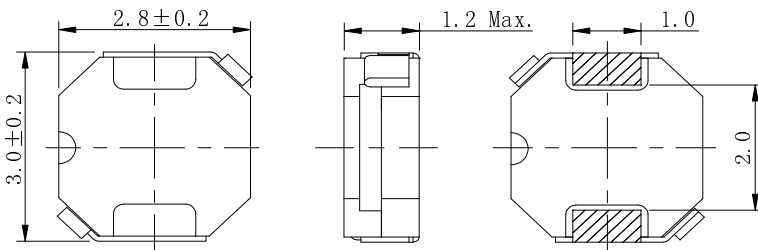
Packaging

- Carrier tape and reel packaging.
- 7.0" diameter reel
- 1500pcs per reel

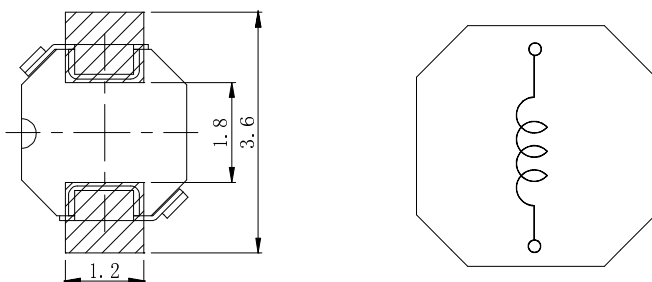
Applications

- Ideally used in Mobilephone, PDA, MP3, DSC/DVC, 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) Max. (Typ.) | Saturation Current (A) ※2 | | Temperature Rise Current (A) ※3 |
|--------------------|-------|---|-------------------------------------|------------------------------|------------|---------------------------------------|
| | | | | at 25°C | at 100°C | |
| CDPH28D11FNP-1R0NC | A | 1.0 ± 30% | 62(49) | 1.78(2.37) | 1.60(2.00) | 1.83(2.08) |
| CDPH28D11FNP-1R2NC | B | 1.2 ± 30% | 73(58) | 1.78(2.37) | 1.60(2.00) | 1.83(2.08) |
| CDPH28D11FNP-1R5MC | C | 1.5 ± 20% | 86(69) | 1.59(2.12) | 1.45(1.85) | 1.74(1.98) |
| CDPH28D11FNP-2R2MC | D | 2.2 ± 20% | 96(77) | 1.31(1.75) | 1.15(1.45) | 1.72(1.94) |
| CDPH28D11FNP-2R7MC | E | 2.7 ± 20% | 116(93) | 1.22(1.63) | 1.10(1.40) | 1.49(1.69) |
| CDPH28D11FNP-3R3MC | F | 3.3 ± 20% | 128(102) | 1.14(1.52) | 1.05(1.30) | 1.42(1.58) |
| CDPH28D11FNP-3R9MC | G | 3.9 ± 20% | 144(115) | 1.03(1.37) | 0.90(1.10) | 1.34(1.53) |
| CDPH28D11FNP-4R7MC | J | 4.7 ± 20% | 184(147) | 0.95(1.27) | 0.65(0.85) | 1.18(1.32) |
| CDPH28D11FNP-6R8MC | K | 6.8 ± 20% | 300(240) | 0.83(1.10) | 0.60(0.75) | 0.89(1.00) |
| CDPH28D11FNP-100MC | L | 10.0 ± 20% | 408(326) | 0.65(0.87) | 0.55(0.70) | 0.76(0.86) |
| CDPH28D11FNP-120MC | P | 12.0 ± 20% | 453(362) | 0.59(0.79) | 0.50(0.60) | 0.73(0.83) |

※1. Inductance measuring condition: at 100kHz.

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

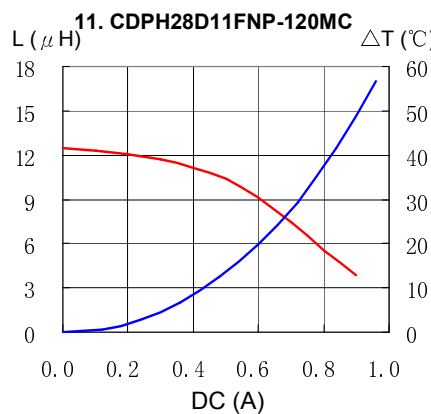
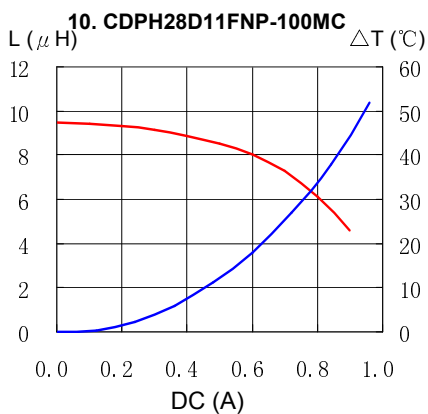
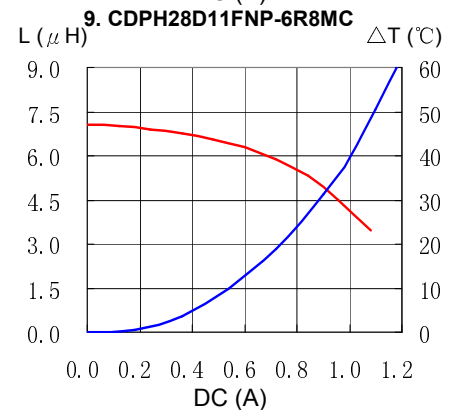
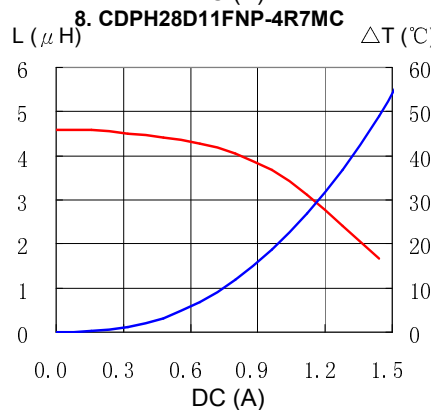
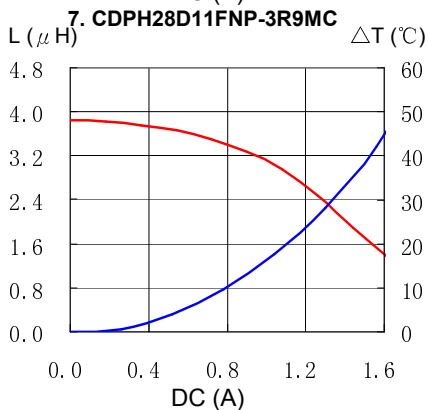
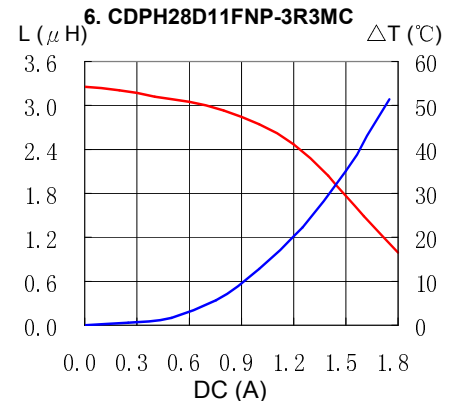
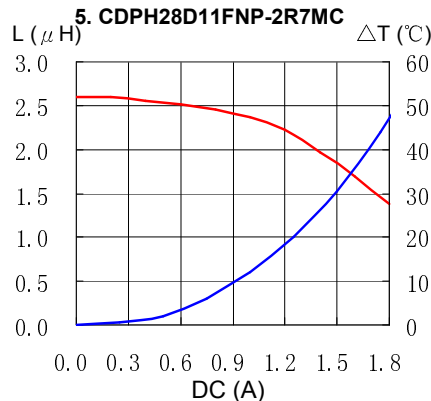
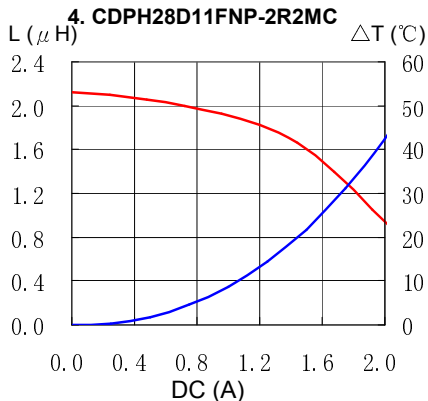
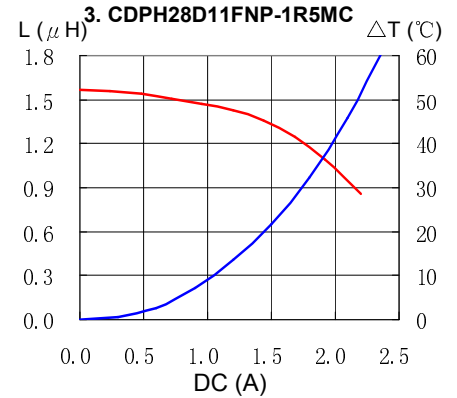
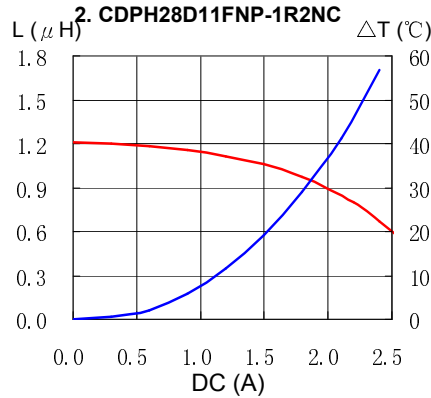
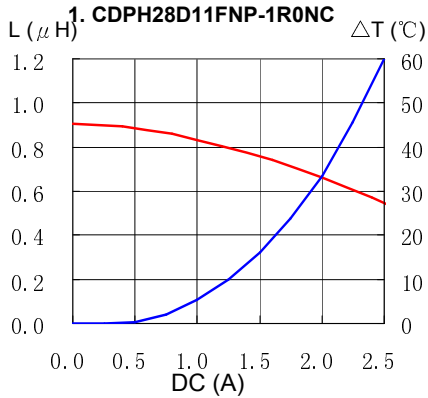
※3. Temperature rise current: The value of D.C. current when the temperature rise is $\Delta t = 40^\circ\text{C}$ ($T_a = 20^\circ\text{C}$).

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Saturation Current & Temperature Rise Graph

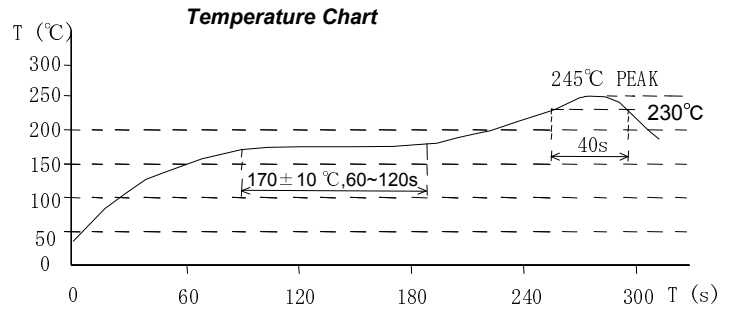
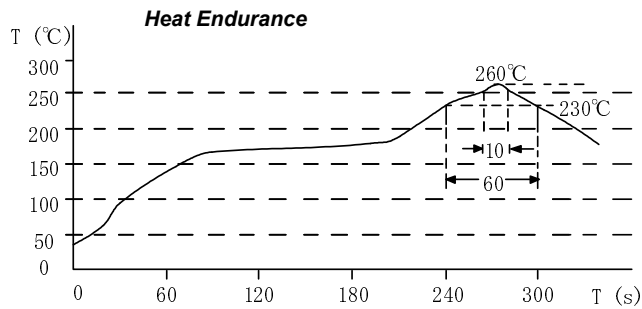
— L (20°C) — ΔT



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Solder Reflow Condition



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

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