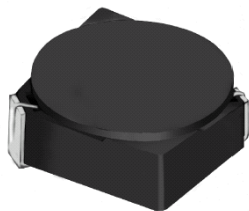




**THE DATASHEET OF
CDRH3D16/HPNP-100MC**



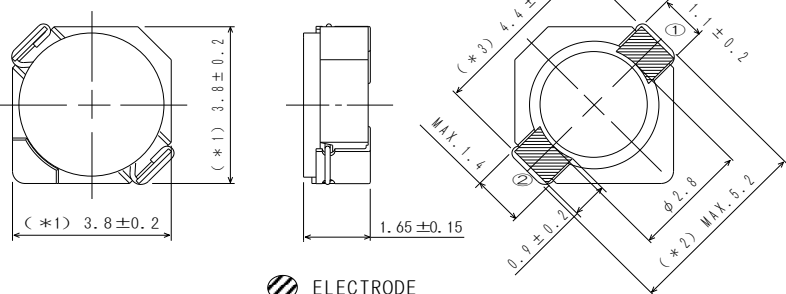
SMD Power Inductor CDRH3D16/HP



Description

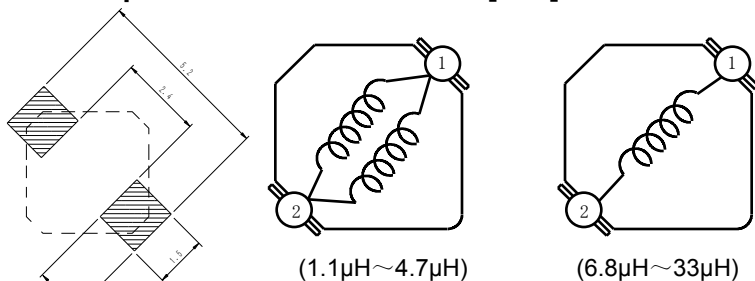
- Ferrite drum core construction.
- Magnetically shielded.
- L × W × H: 4.0 × 4.0 × 1.8 mm Max.
- Product weight: 80mg (Ref.)
- Moisture Sensitivity Level: 1
- RoHS compliance.

Dimension - [mm]



(*2) MAX. 5.4 SHOULD BE USED FOR DOUBLE WIRE WINDING (BELOW 4.7 μH).

Land pattern and Schematics - [mm]



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
- 1000 pcs per reel

Applications

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

Electrical Characteristics

| Part Name | Stamp | Inductance (μH) [within] ※1 | D.C.R. (mΩ) Max. (Typ.) (at 20°C) | Saturation Current (A) ※2 | | Temperature Rise Current (A) ※3 |
|---------------------|-------|-------------------------------------|---|------------------------------|----------|---------------------------------------|
| | | | | at 20°C | at 105°C | |
| CDRH3D16/HPNP-1R7NC | A | 1.7 ± 30% | 51(41) | 2.00 | 1.50 | 2.40 |
| CDRH3D16/HPNP-2R2NC | C | 2.2 ± 30% | 59(47) | 1.75 | 1.30 | 2.30 |
| CDRH3D16/HPNP-3R3NC | E | 3.3 ± 30% | 85(68) | 1.40 | 1.10 | 1.80 |
| CDRH3D16/HPNP-4R7NC | G | 4.7 ± 30% | 116(93) | 1.20 | 0.90 | 1.50 |
| CDRH3D16/HPNP-6R8NC | J | 6.8 ± 30% | 180(145) | 1.00 | 0.72 | 1.10 |
| CDRH3D16/HPNP-100MC | L | 10 ± 20% | 230(185) | 0.84 | 0.62 | 1.00 |
| CDRH3D16/HPNP-150MC | N | 15 ± 20% | 410(328) | 0.65 | 0.52 | 0.75 |
| CDRH3D16/HPNP-220MC | P | 22 ± 20% | 610(488) | 0.55 | 0.43 | 0.52 |
| CDRH3D16/HPNP-330MC | Q | 33 ± 20% | 870(695) | 0.46 | 0.35 | 0.41 |

※1. Inductance measuring condition: at 100kHz.

※2. Saturation current: The DC current at which the inductance decreases to 65% of its nominal value.

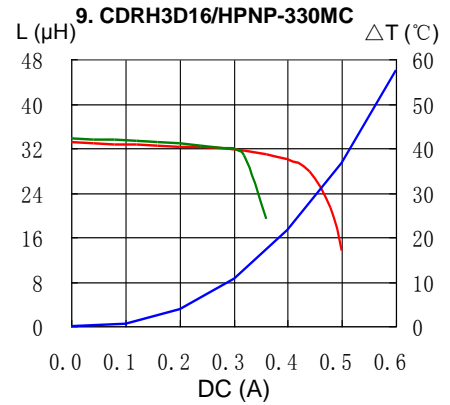
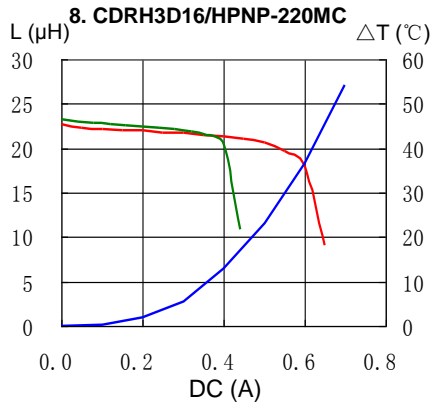
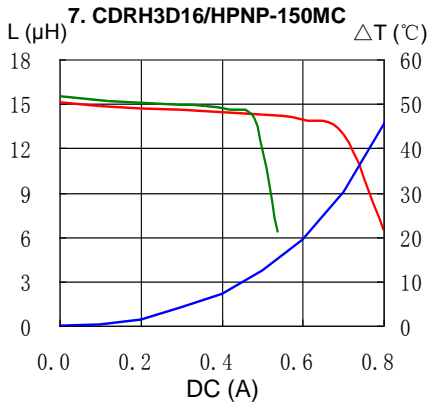
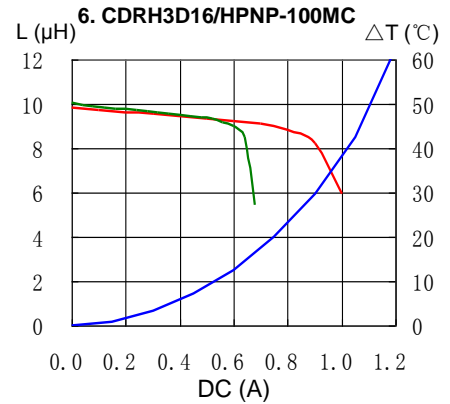
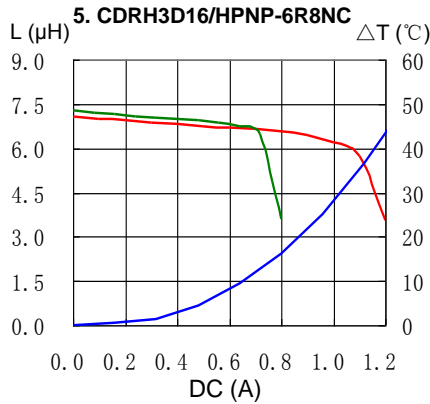
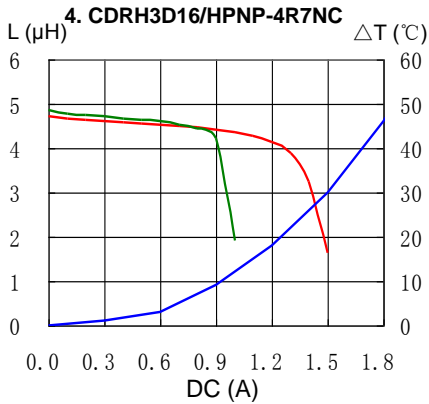
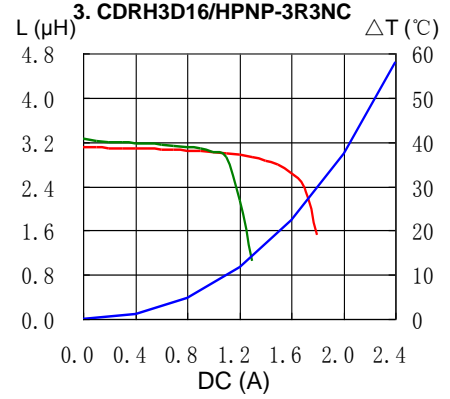
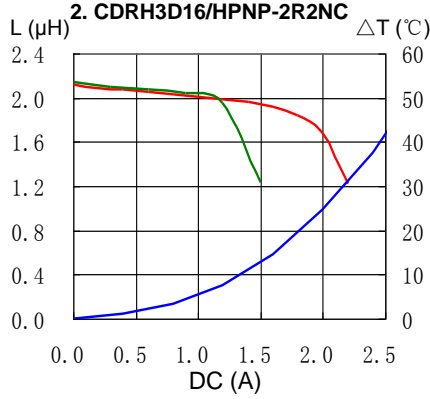
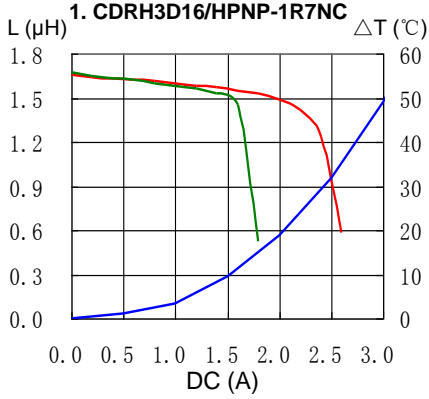
※3. Temperature rise current: The DC current at which the temperature rise is Δt=40°C. (Ta=20°C)

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Saturation Current & Temperature Rise Graph

— L (20°C) — L (105°C) — ΔT

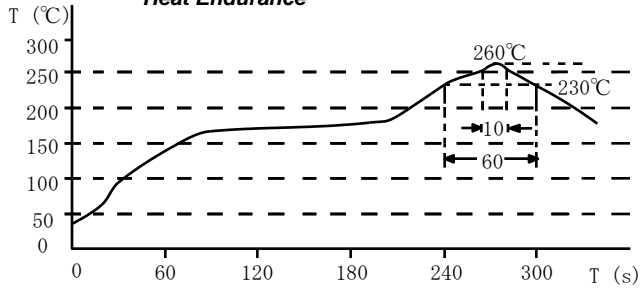


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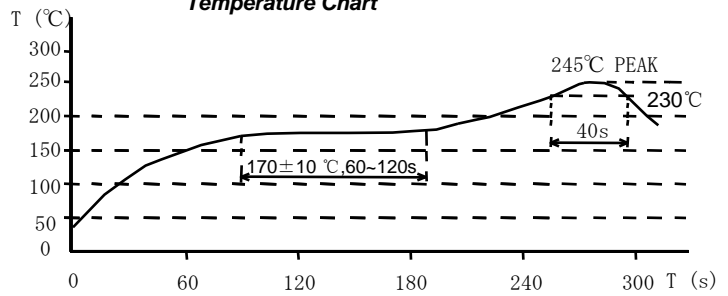


Solder Reflow Condition

Heat Endurance



Temperature Chart



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