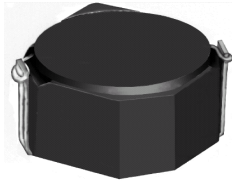


SMD Power Inductor CDRH3D28



Description

- Ferrite drum core construction.
- Magnetically shielded.
- L × W × H: 4.0 × 4.0 × 3.0 mm Max.
- Product weight: 130m g (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.

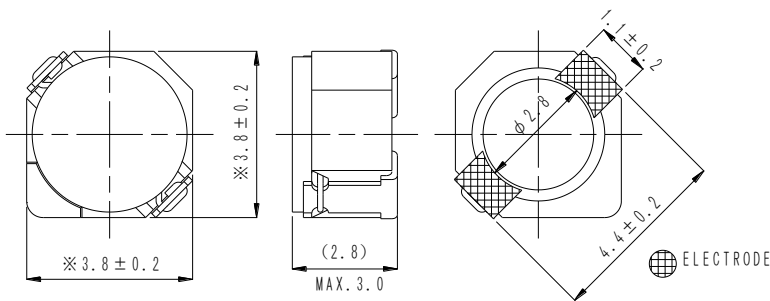
Packaging

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

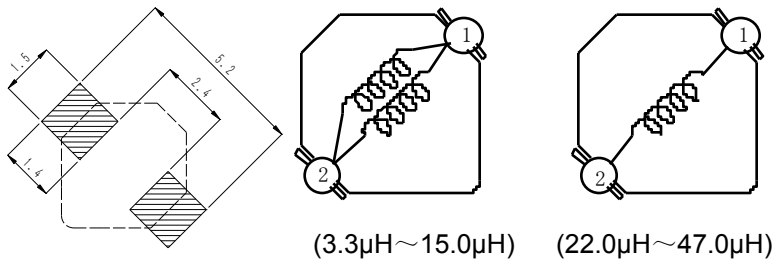
Applications

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

Dimension - [mm]



Land pattern and Schematics - [mm]



Electrical Characteristics

| Part Name | Stamp | Inductance (μH) [within] ※1 | D.C.R. (m Ω) Max. (Typ.) (at 20°C) | Saturation Current (A) ※2 | | Temperature Rise Current (A) ※3 |
|------------------|-------|---|--|---------------------------|----------|---------------------------------|
| | | | | at 20°C | at 100°C | |
| CDRH3D28NP-1R0NC | L | $1.0\mu\text{H} \pm 30\%$ | 37.5(30.0) | 3.00 | 2.40 | 2.60 |
| CDRH3D28NP-3R3NC | A | $3.3 \pm 30\%$ | 72.1(57.7) | 2.00 | 1.48 | 1.85 |
| CDRH3D28NP-4R7NC | B | $4.7 \pm 30\%$ | 88.3(70.6) | 1.65 | 1.28 | 1.62 |
| CDRH3D28NP-6R8NC | C | $6.8 \pm 30\%$ | 119(95.0) | 1.24 | 0.94 | 1.32 |
| CDRH3D28NP-100NC | D | $10 \pm 30\%$ | 145(116) | 1.05 | 0.80 | 1.18 |
| CDRH3D28NP-150NC | E | $15 \pm 30\%$ | 213(170) | 0.90 | 0.64 | 1.02 |
| CDRH3D28NP-220NC | F | $22 \pm 30\%$ | 335(268) | 0.76 | 0.55 | 0.74 |
| CDRH3D28NP-330NC | G | $33 \pm 30\%$ | 481(385) | 0.58 | 0.44 | 0.63 |
| CDRH3D28NP-470NC | H | $47 \pm 30\%$ | 599(479) | 0.48 | 0.36 | 0.56 |

※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.

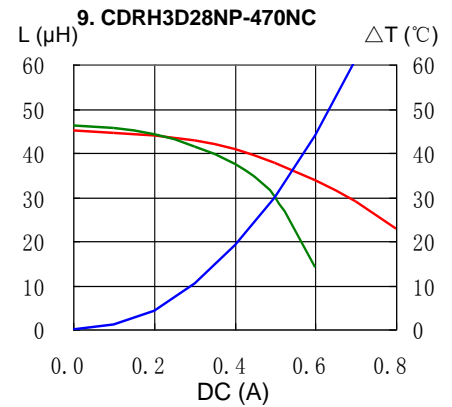
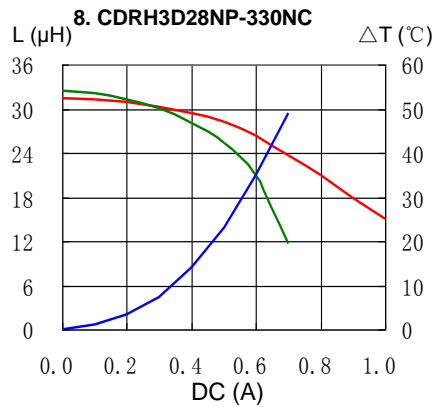
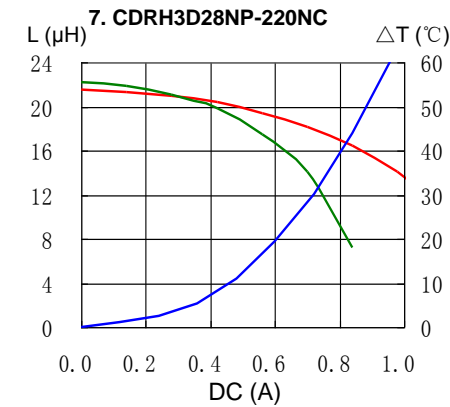
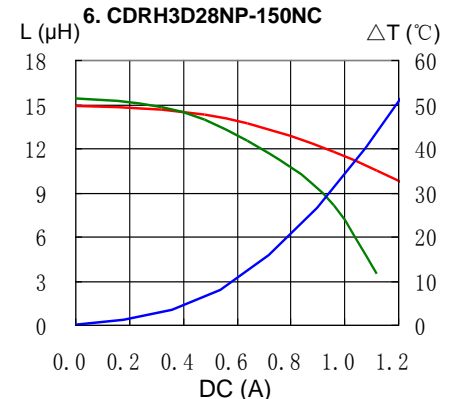
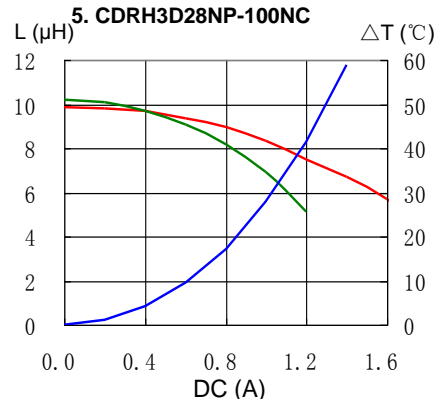
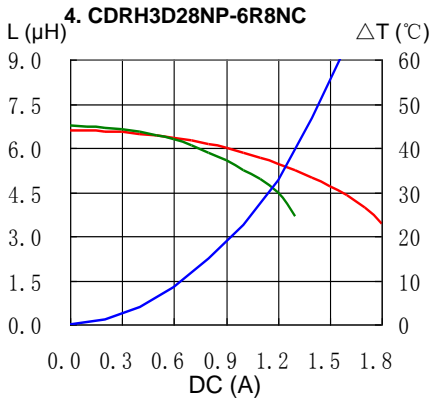
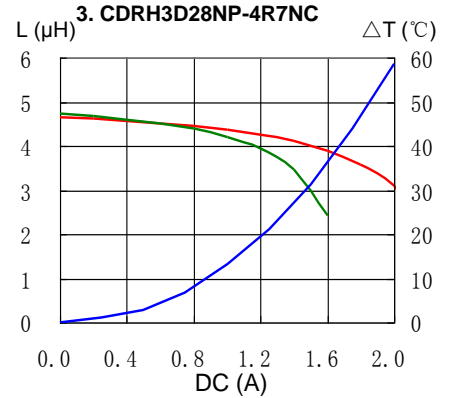
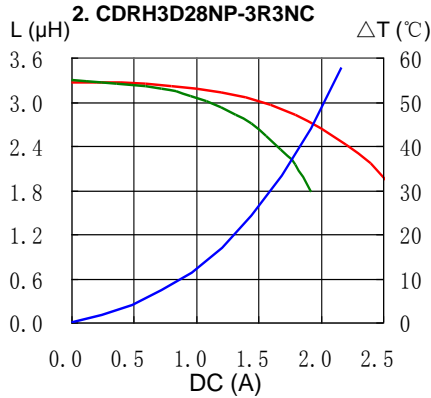
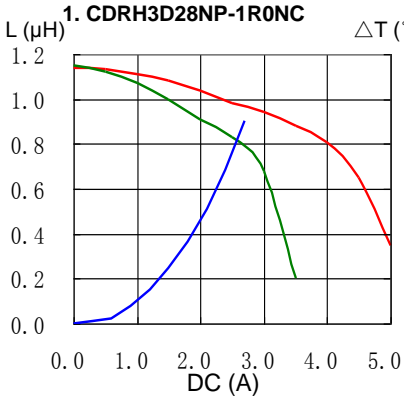
※3. Temperature rise current: The value of D.C. current when the temperature rise is $\Delta t = 40^\circ\text{C}$ ($T_a = 20^\circ\text{C}$).

SMD Power Inductor CDRH3D28

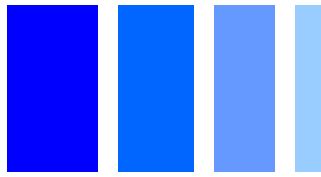


Saturation Current & Temperature Rise Graph

— L (20°C) — L (100°C) — ΔT

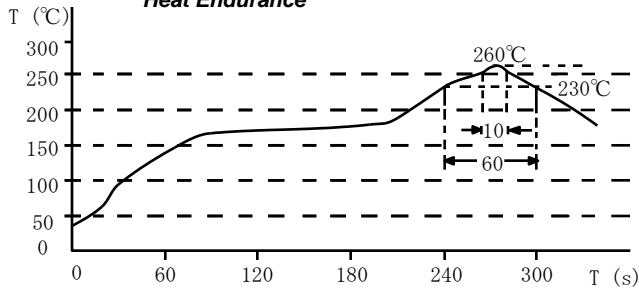


SMD Power Inductor CDRH3D28

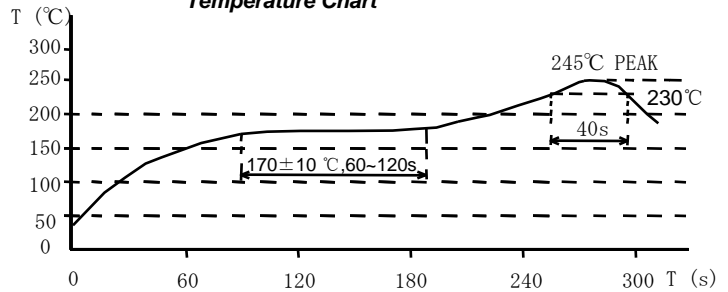


Solder Reflow Condition

Heat Endurance



Temperature Chart



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