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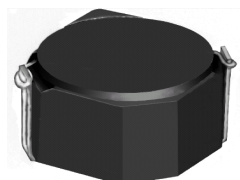
[Sumida Corporation](#)

[CDRH3D28NP-100NC](#)

For any questions, you can email us directly:

[sales@integrated-circuit.com](mailto:sales@integrated-circuit.com)

# 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.

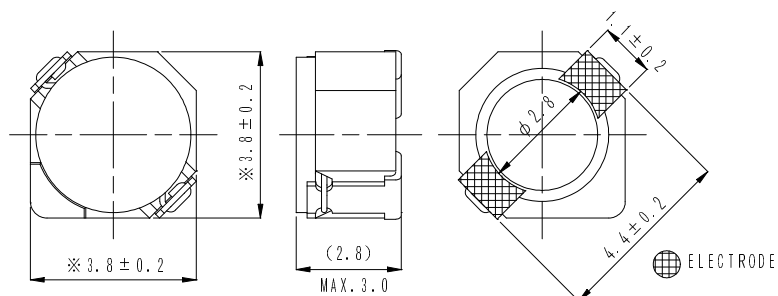
## Packaging

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

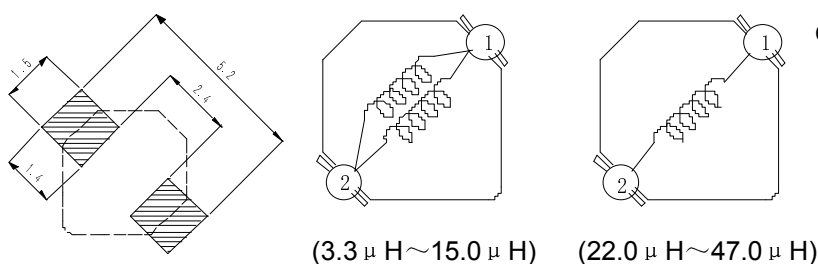
## Applications

- 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<br>(μH)<br>[within] ※1 | D.C.R. (mΩ)<br>Max. (Typ.)<br>(at 20°C) | Saturation Current<br>(A) ※2 |          | Temperature<br>Rise Current<br>(A) ※3 |
|------------------|-------|-----------------------------------|-----------------------------------------|------------------------------|----------|---------------------------------------|
|                  |       |                                   |                                         | at 20°C                      | at 100°C |                                       |
| CDRH3D28NP-3R3NC | A     | 3.3 ± 30%                         | 72.1(57.7)                              | 2.00                         | 1.48     | 1.85                                  |
| CDRH3D28NP-4R7NC | B     | 4.7 ± 30%                         | 88.3(70.6)                              | 1.65                         | 1.28     | 1.62                                  |
| CDRH3D28NP-6R8NC | C     | 6.8 ± 30%                         | 119(95.0)                               | 1.24                         | 0.94     | 1.32                                  |
| CDRH3D28NP-100NC | D     | 10 ± 30%                          | 145(116)                                | 1.05                         | 0.80     | 1.18                                  |
| CDRH3D28NP-150NC | E     | 15 ± 30%                          | 213(170)                                | 0.90                         | 0.64     | 1.02                                  |
| CDRH3D28NP-220NC | F     | 22 ± 30%                          | 335(268)                                | 0.76                         | 0.55     | 0.74                                  |
| CDRH3D28NP-330NC | G     | 33 ± 30%                          | 481(385)                                | 0.58                         | 0.44     | 0.63                                  |
| CDRH3D28NP-470NC | H     | 47 ± 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.

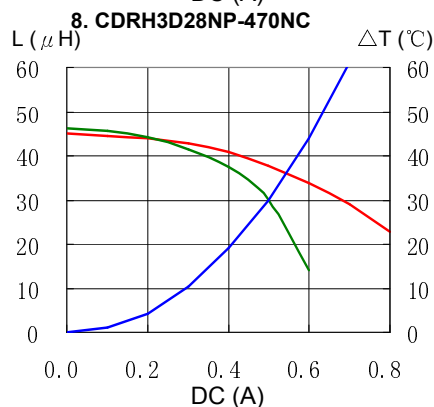
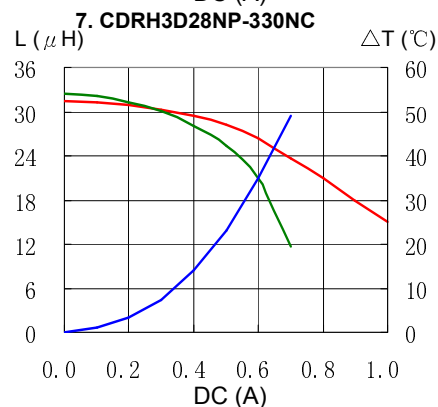
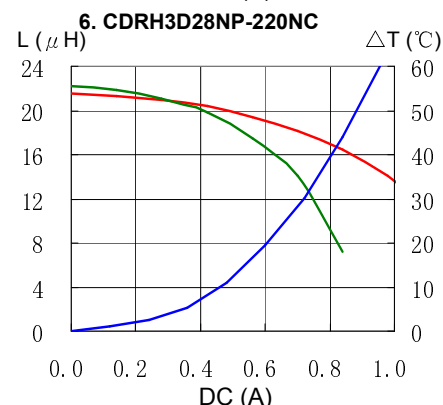
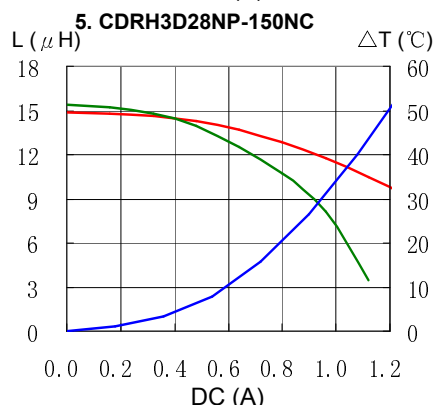
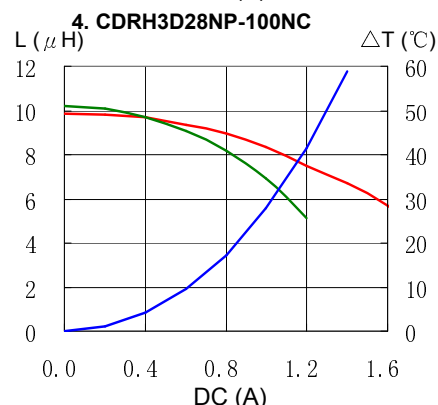
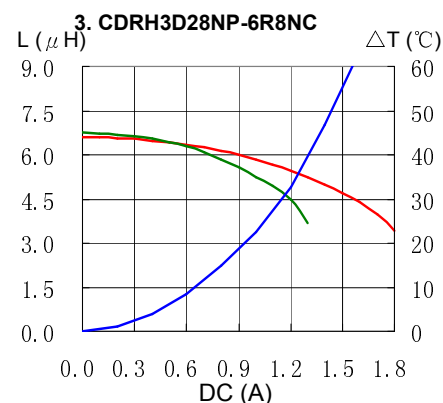
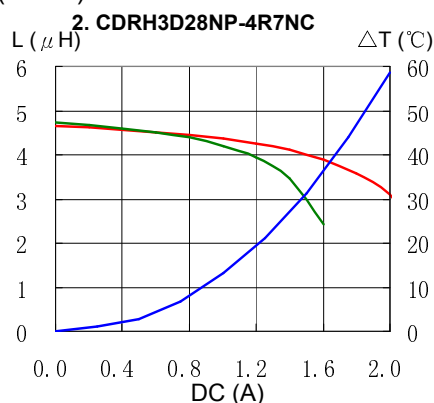
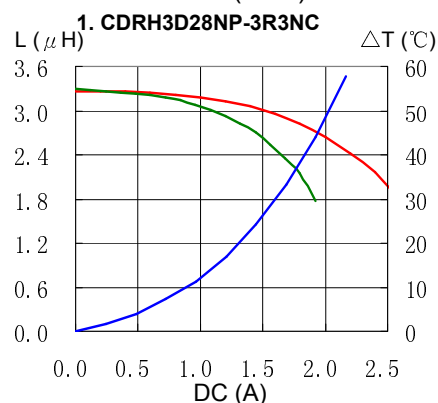
※3. Temperature rise current: The value of D.C. current when the temperature rise is Δt=40°C (Ta=20°C).

# SMD Power Inductor CDRH3D28



## Saturation Current & Temperature Rise Graph

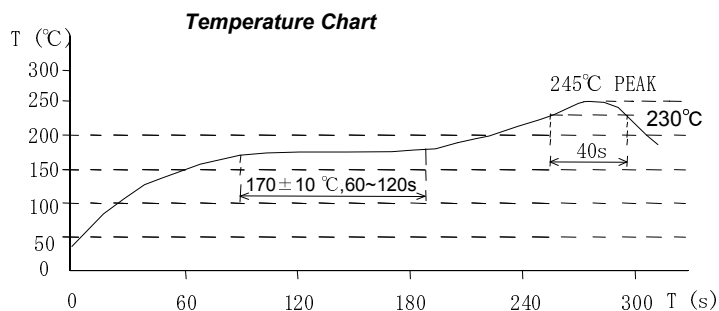
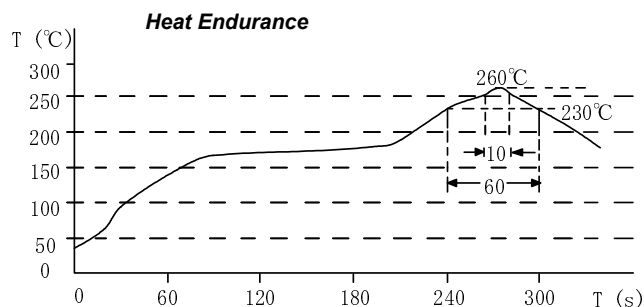
— L (20°C) — L (100°C) —  $\Delta T$



# SMD Power Inductor CDRH3D28



## Solder Reflow Condition



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