

SMD Power Inductor CDEP149



Description

- Ferrite core construction.
- Magnetically shielded.
- L × W × H: 15.2 × 15.2 × 10.0 mm Max.
- Product weight: 7.3g(Ref.)
- Moisture Sensitivity Level: 1
- RoHS compliance.

Environmental Data

- Operating temperature range: -40°C ~ +100°C (including coil's self temperature rise)
- Storage temperature range: -40°C ~ +100°C
- Solder reflow temperature: 260 °C peak.

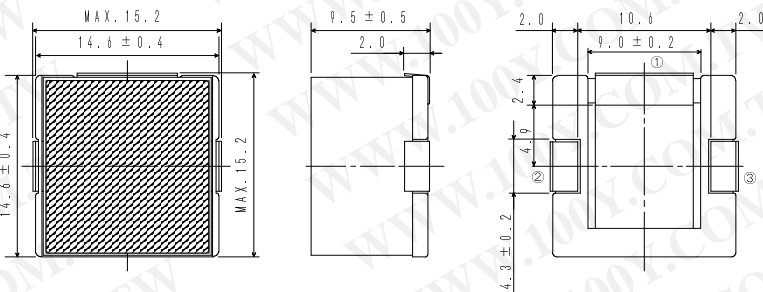
Packaging

- Carrier tape and reel packaging
- 14.6" diameter reel
- 250pcs per reel

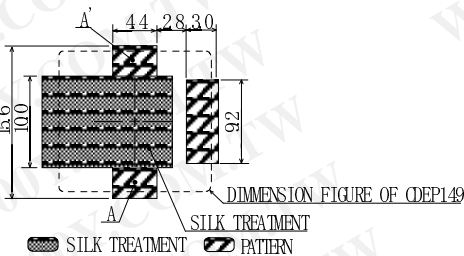
Applications

- Ideally used in personal computer CPU power supply.

Dimension - [mm]



Land pattern and Schematics - [mm]



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勝特力材料 886-3-5753170
勝特力电子(上海) 86-21-34970699
勝特力电子(深圳) 86-755-83298787
[Http://www.100y.com.tw](http://www.100y.com.tw)

Electrical Characteristics

Electrical Characteristics - 1

| PART NO. | STAMP | INDUCTANCE [WITHIN] ※1 | D.C.R. (mΩ) [MAX] (Typ.) (at 20°C) | SATURATION CURRENT (A) (at 20°C) ※2 | TEMPERATURE RISE CURRENT (A) ※3 |
|-----------------|-------|---------------------------|--|---|---------------------------------------|
| CDEP149NP-0R7NC | 0R7N | 0.75 μH ± 30% | 1.1(0.9) | 24.0 | 35.0 |
| CDEP149NP-1R7MC | 1R7M | 1.7 μH ± 20% | 1.6(1.3) | 16.8 | 30.0 |
| CDEP149NP-3R0MC | 3R0M | 3.0 μH ± 20% | 2.3(1.9) | 12.4 | 28.0 |

Electrical Characteristics - 2

| PART NO. | STAMP | INDUCTANCE [WITHIN] ※1 | D.C.R. (mΩ) [MAX] (Typ.) (at 20°C) | SATURATION CURRENT (A) (at 20°C) ※2 | TEMPERATURE RISE CURRENT (A) ※3 |
|-------------------|-------|---------------------------|--|---|---------------------------------------|
| CDEP149NP-0R4NC-H | 0R4N | 0.45 μH ± 30% | 1.1(0.9) | 32.0 | 35.0 |
| CDEP149NP-1R0MC-H | 1R0M | 1.0 μH ± 20% | 1.6(1.3) | 26.0 | 30.0 |
| CDEP149NP-1R8MC-H | 1R8M | 1.8 μH ± 20% | 2.3(1.9) | 20.0 | 28.0 |

※1. Measuring condition: at 100kHz.

※2. Saturation current: The value of D.C. current when the inductance decreases to 65% (while the inductance tolerance is ±30%) or 75% (while the inductance tolerance is ±20%) of its nominal.

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

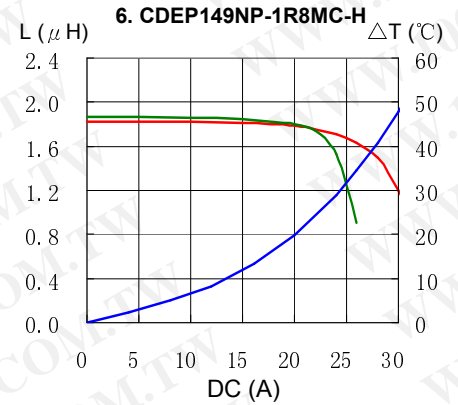
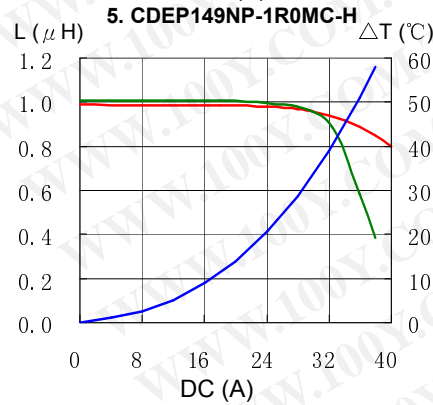
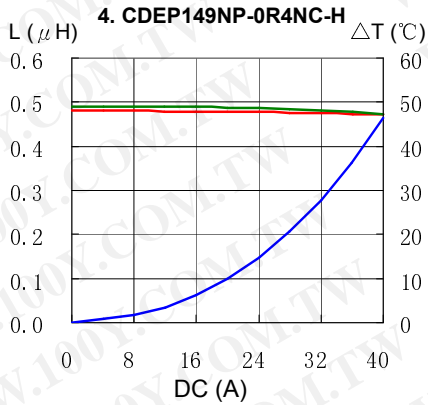
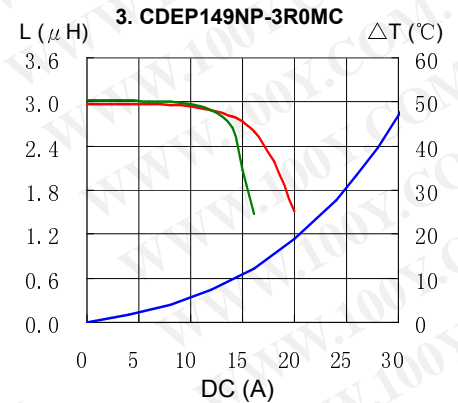
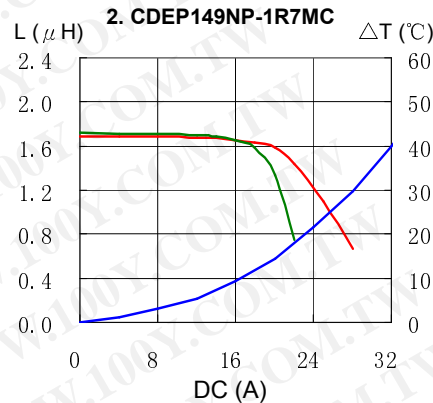
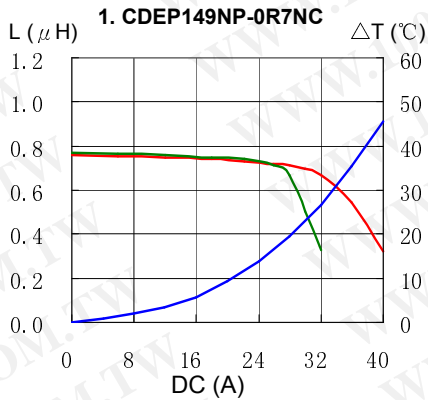
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Saturation Current & Temperature Rise Graph

— L (20°C) — L (105°C) — ΔT



Solder Reflow Condition

