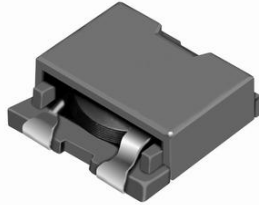
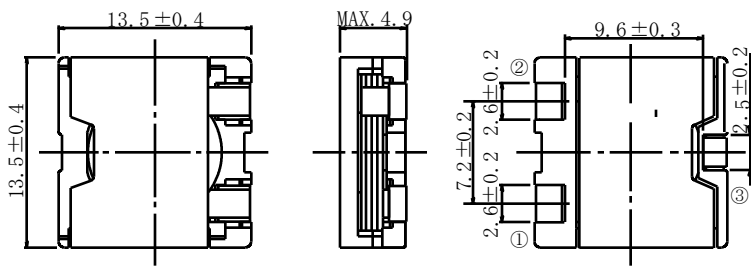


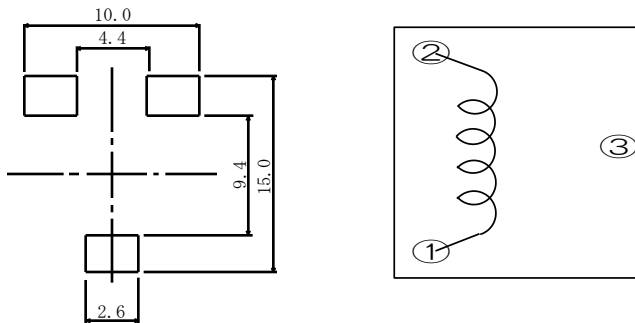
# SMD Power Inductor CDEP134



## Dimension - [mm]



## Land pattern and Schematics - [mm]



## Description

- Ferrite core construction.
- Magnetically shielded.
- L × W × H:  $13.9 \times 13.9 \times 4.9$  mm Max.
- Product weight: 2.6g(Ref.)
- Moisture Sensitivity Level: 1
- RoHS compliance.

## Environmental Data

- Operating temperature range:  $-40^{\circ}\text{C} \sim +125^{\circ}\text{C}$  (including coil's self temperature rise)
- Storage temperature range:  $-40^{\circ}\text{C} \sim +125^{\circ}\text{C}$
- Solder reflow temperature:  $260^{\circ}\text{C}$  peak.

## Packaging

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

## Applications

- Ideally used in Notebook PC CPU power supply.

# SMD Power Inductor

## CDEP134



### Electrical Characteristics

#### Electrical Characteristics - 1

| PART NO.        | STAMP | INDUCTANCE<br>[WITHIN] ※1 | D.C.R. (mΩ)<br>[MAX.] (Typ.)<br>(at 20℃) | SATURATION<br>CURRENT ( A ) ※2 |          | TEMPERATURE<br>RISE CURRENT<br>( A ) ※3 ΔT=40℃ |
|-----------------|-------|---------------------------|------------------------------------------|--------------------------------|----------|------------------------------------------------|
|                 |       |                           |                                          | (at 20℃)                       | (at100℃) |                                                |
| CDEP134NP-0R4NC | 0R4N  | 0.4μH±30%                 | 1.9(1.6)                                 | 32.0                           | 27.0     | 18.5                                           |
| CDEP134NP-0R9MC | 0R9M  | 0.9μH±20%                 | 2.5(2.1)                                 | 21.6                           | 18.4     | 17.0                                           |
| CDEP134NP-1R6MC | 1R6M  | 1.6μH±20%                 | 3.7(3.1)                                 | 16.0                           | 13.8     | 15.0                                           |
| CDEP134NP-2R5MC | 2R5M  | 2.5μH±20%                 | 6.6(5.5)                                 | 12.8                           | 11.0     | 10.5                                           |
| CDEP134NP-3R6MC | 3R6M  | 3.6μH±20%                 | 10.8(9.0)                                | 10.9                           | 9.1      | 8.0                                            |
| CDEP134NP-4R8MC | 4R8M  | 4.8μH±20%                 | 12.0(10.0)                               | 9.3                            | 8.0      | 7.5                                            |
| CDEP134NP-6R4MC | 6R4M  | 6.4μH±20%                 | 16.3(13.6)                               | 8.0                            | 6.8      | 7.0                                            |
| CDEP134NP-8R0MC | 8R0M  | 8.0μH±20%                 | 18.4(15.3)                               | 7.2                            | 6.1      | 6.5                                            |

#### Electrical Characteristics - 2

| PART NO.          | STAMP | INDUCTANCE<br>[WITHIN] ※1 | D.C.R. (mΩ)<br>[MAX.] (Typ.)<br>(at 20℃) | SATURATION<br>CURRENT ( A ) ※2 |          | TEMPERATURE<br>RISE CURRENT<br>( A ) ※3 ΔT=40℃ |
|-------------------|-------|---------------------------|------------------------------------------|--------------------------------|----------|------------------------------------------------|
|                   |       |                           |                                          | (at 20℃)                       | (at100℃) |                                                |
| CDEP134NP-0R3NC-H | 0R3NH | 0.3μH±30%                 | 1.9(1.6)                                 | 35.0                           | 32.0     | 18.5                                           |
| CDEP134NP-0R6NC-H | 0R6NH | 0.66μH±30%                | 2.5(2.1)                                 | 29.0                           | 24.0     | 17.0                                           |
| CDEP134NP-1R2MC-H | 1R2MH | 1.2μH±20%                 | 3.7(3.1)                                 | 21.0                           | 17.6     | 15.0                                           |
| CDEP134NP-1R8MC-H | 1R8MH | 1.8μH±20%                 | 6.6(5.5)                                 | 17.6                           | 14.4     | 10.5                                           |
| CDEP134NP-2R7MC-H | 2R7MH | 2.7μH±20%                 | 10.8(9.0)                                | 14.7                           | 12.0     | 8.0                                            |
| CDEP134NP-3R6MC-H | 3R6MH | 3.6μH±20%                 | 12.0(10.0)                               | 12.5                           | 10.2     | 7.5                                            |
| CDEP134NP-4R8MC-H | 4R8MH | 4.8μH±20%                 | 16.3(13.6)                               | 11.0                           | 9.0      | 7.0                                            |
| CDEP134NP-6R0MC-H | 6R0MH | 6.0μH±20%                 | 18.4(15.3)                               | 9.6                            | 8.0      | 6.5                                            |

※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 it's nominal.

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

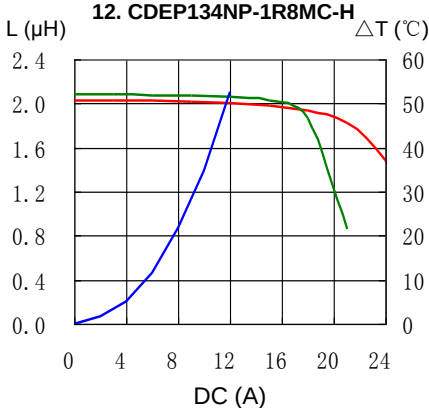
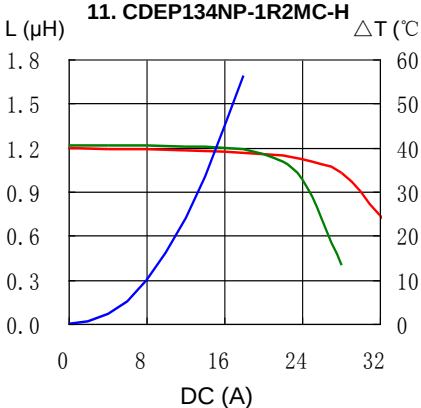
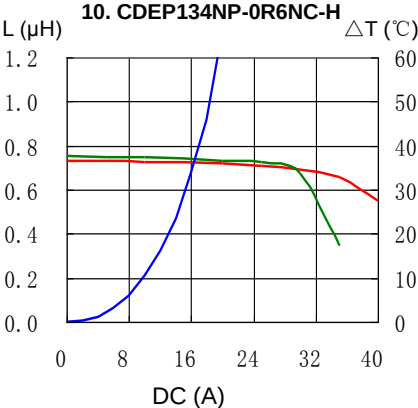
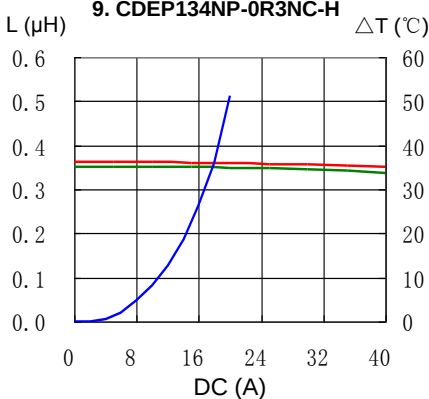
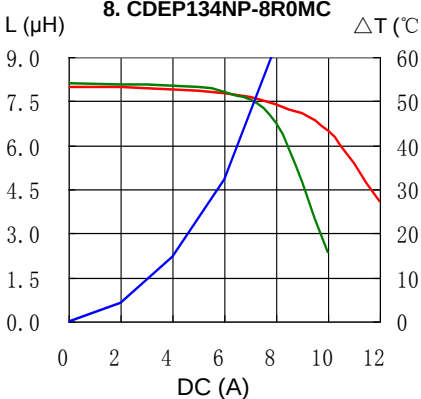
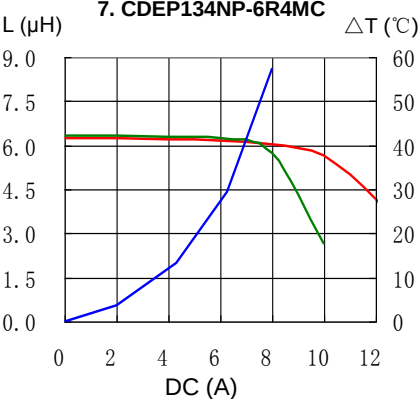
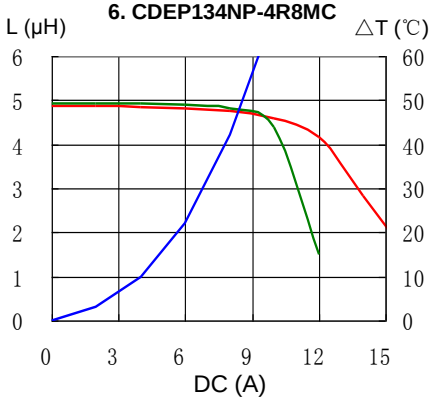
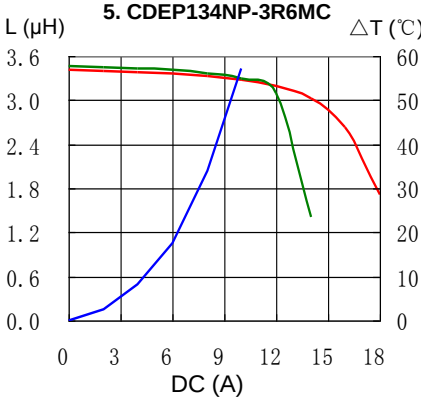
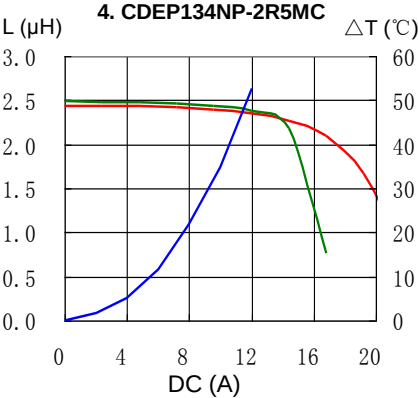
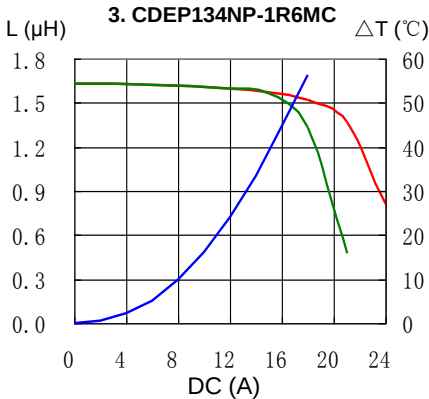
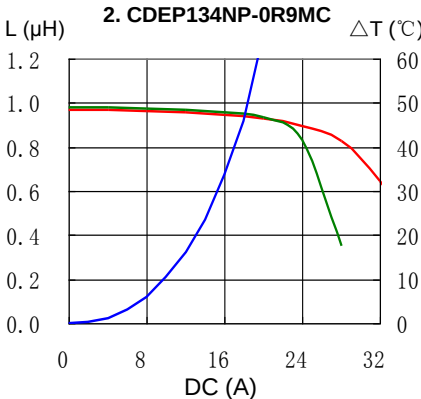
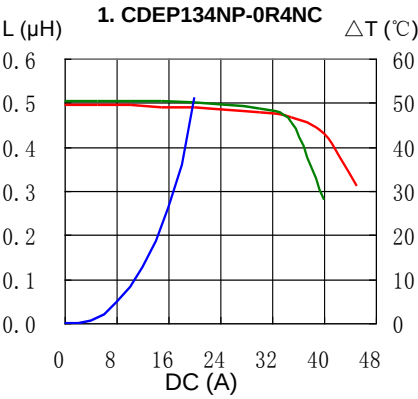
# SMD Power Inductor

## CDEP134



### Saturation Current & Temperature Rise Graph

— L (20°C) — L (100°C) —  $\Delta T$

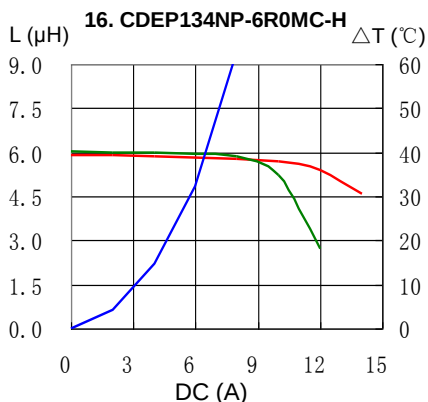
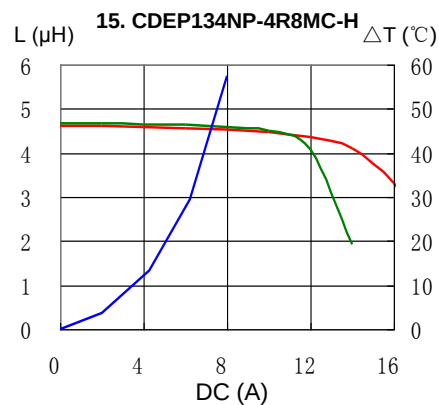
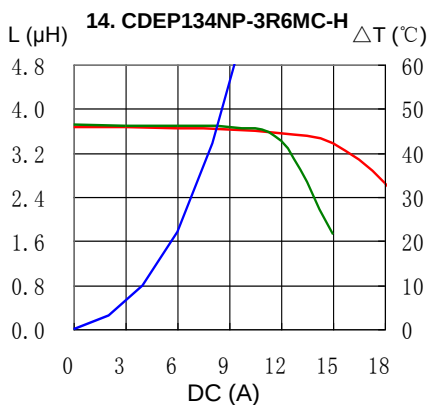
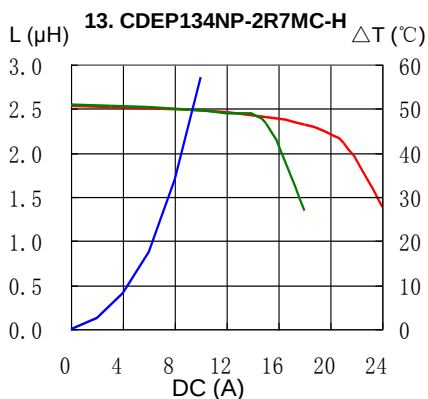


# SMD Power Inductor CDEP134



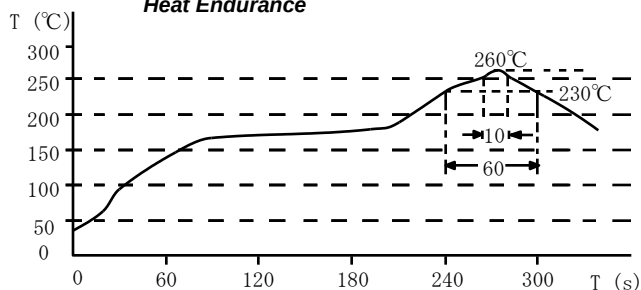
## Saturation Current & Temperature Rise Graph

— L (20°C) — L (100°C) —  $\Delta T$

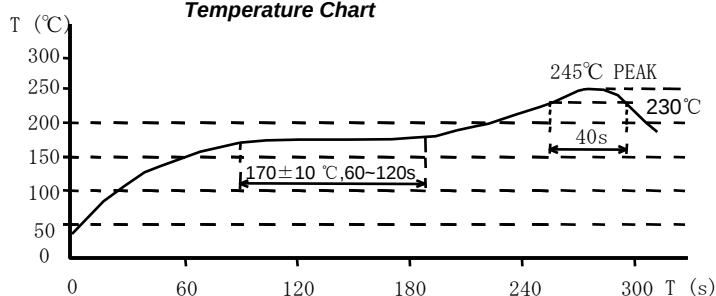


## Solder Reflow Condition

### Heat Endurance



### Temperature Chart



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