

# SMD Power Inductor CDPH73



## Description

- Ferrite core construction.
- Magnetically shielded.
- L × W × H: 7.5 × 7.5 × 3.6mm Max.
- Product weight: 0.6g(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.

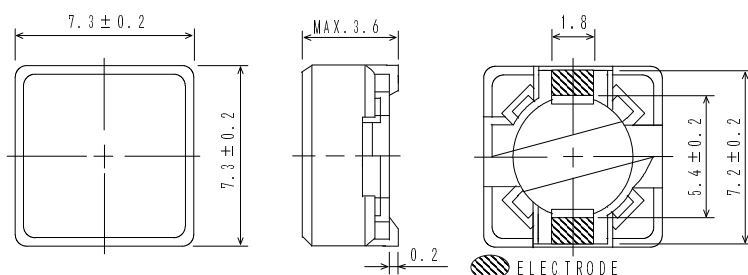
## Packaging

- Carrier tape and reel packaging.
- 12.9" diameter reel
- 1000pcs per reel

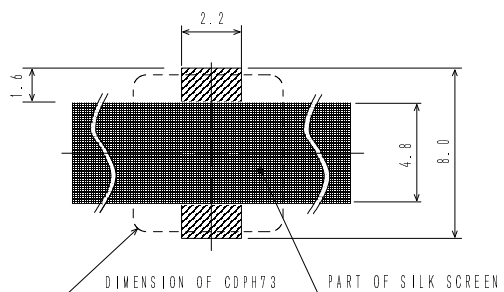
## Applications

- Ideally used in Notebook PC, DVD, LCD TV, Game machine, STB etc as DC-DC converter inductors.

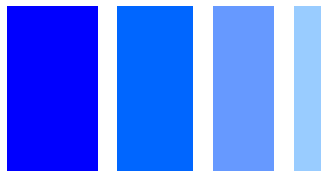
## Dimension - [mm]



## Land pattern and Schematics - [mm]



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## Electrical Characteristics

| Part Name      | Stamp | Inductance<br>( $\mu$ H)<br>[ Within ] ※1 |                | D.C.R. ( $\Omega$ )<br>Max. (Typ.)<br>(at 20°C) | Rated Current<br>(A) ※2 |
|----------------|-------|-------------------------------------------|----------------|-------------------------------------------------|-------------------------|
| CDPH73NP-100NC | 100   | 10                                        | + 25%<br>- 20% | 0.09(0.07)                                      | 1.40                    |
| CDPH73NP-120NC | 120   | 12                                        | + 25%<br>- 20% | 0.10(0.080)                                     | 1.30                    |
| CDPH73NP-150NC | 150   | 15                                        | + 25%<br>- 20% | 0.13 (0.10)                                     | 1.20                    |
| CDPH73NP-180NC | 180   | 18                                        | + 25%<br>- 20% | 0.15 (0.11)                                     | 1.10                    |
| CDPH73NP-220NC | 220   | 22                                        | + 25%<br>- 20% | 0.17 (0.13)                                     | 1.00                    |
| CDPH73NP-270NC | 270   | 27                                        | + 25%<br>- 20% | 0.21 (0.16)                                     | 0.88                    |
| CDPH73NP-330NC | 330   | 33                                        | + 25%<br>- 20% | 0.24 (0.18)                                     | 0.80                    |
| CDPH73NP-390NC | 390   | 39                                        | + 25%<br>- 20% | 0.31 (0.24)                                     | 0.75                    |
| CDPH73NP-470NC | 470   | 47                                        | + 25%<br>- 20% | 0.35 (0.27)                                     | 0.67                    |
| CDPH73NP-560NC | 560   | 56                                        | + 25%<br>- 20% | 0.40 (0.30)                                     | 0.62                    |
| CDPH73NP-680NC | 680   | 68                                        | + 25%<br>- 20% | 0.52 (0.40)                                     | 0.54                    |
| CDPH73NP-820NC | 820   | 82                                        | + 25%<br>- 20% | 0.60 (0.45)                                     | 0.52                    |
| CDPH73NP-101NC | 101   | 100                                       | + 25%<br>- 20% | 0.70 (0.55)                                     | 0.46                    |
| CDPH73NP-121NC | 121   | 120                                       | + 25%<br>- 20% | 0.82 (0.63)                                     | 0.42                    |
| CDPH73NP-151NC | 151   | 150                                       | + 25%<br>- 20% | 1.35 (1.05)                                     | 0.37                    |
| CDPH73NP-181NC | 181   | 180                                       | + 25%<br>- 20% | 1.50 (1.15)                                     | 0.33                    |
| CDPH73NP-221NC | 221   | 220                                       | + 25%<br>- 20% | 1.70 (1.30)                                     | 0.30                    |
| CDPH73NP-271NC | 271   | 270                                       | + 25%<br>- 20% | 1.90 (1.50)                                     | 0.28                    |
| CDPH73NP-331NC | 331   | 330                                       | + 25%<br>- 20% | 2.80 (2.14)                                     | 0.25                    |
| CDPH73NP-391NC | 391   | 390                                       | + 25%<br>- 20% | 3.00 (2.30)                                     | 0.22                    |
| CDPH73NP-471NC | 471   | 470                                       | + 25%<br>- 20% | 3.50 (2.70)                                     | 0.20                    |

※1. Inductance measuring condition: at 1kHz.

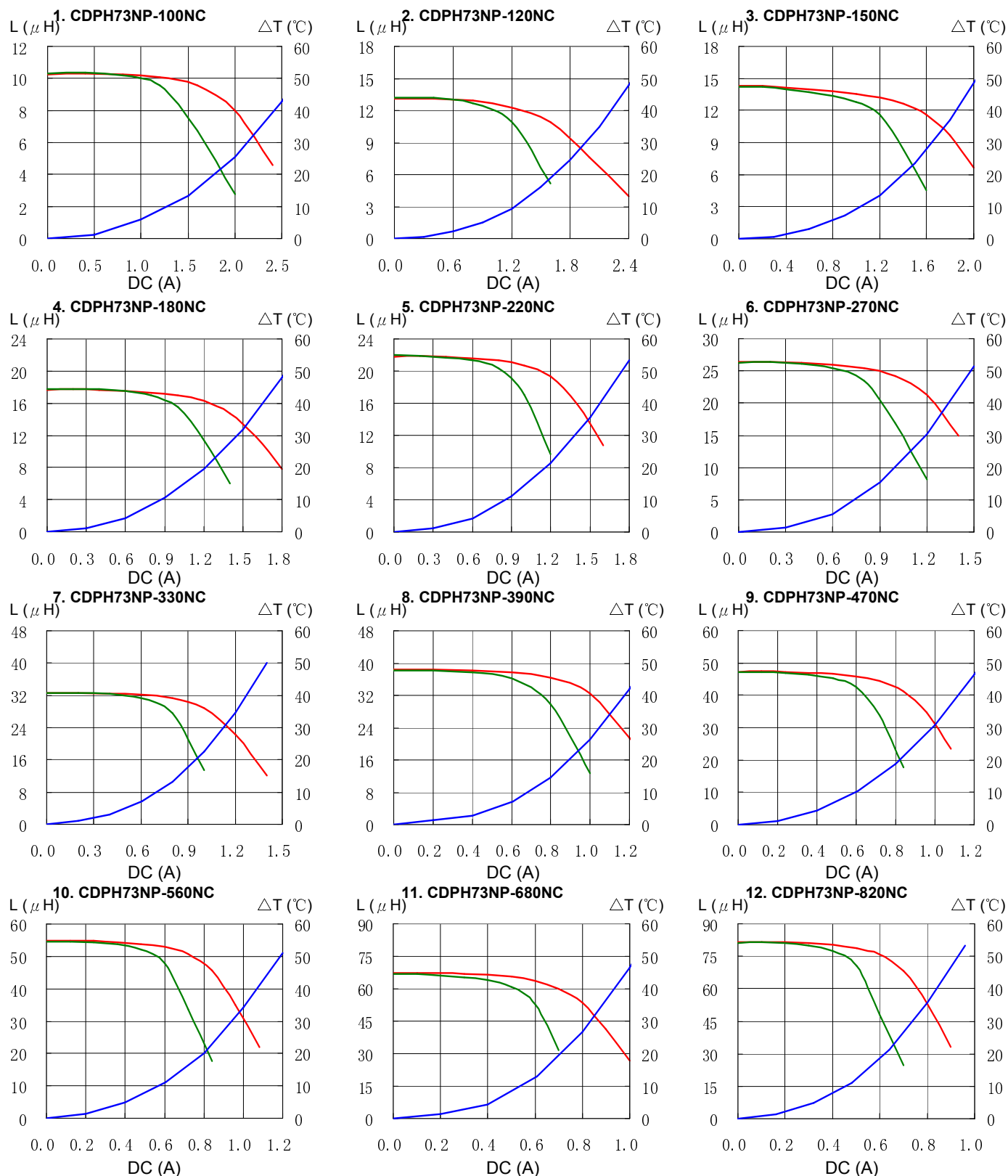
※2. Rated current: The DC current at which the inductance decreases to 75% of its nominal value or when  $\Delta t=40^{\circ}\text{C}$ , whichever is lower ( $T_a=20^{\circ}\text{C}$ ).

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## Saturation Current & Temperature Rise Graph

— L (20°C) — L (100°C) —  $\Delta T$

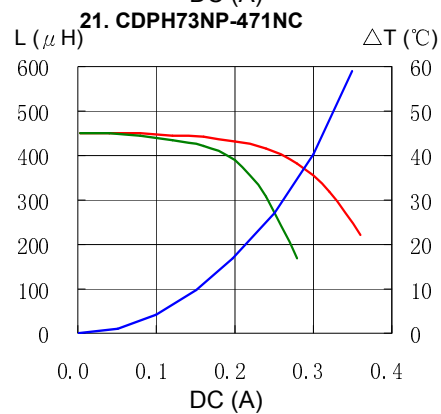
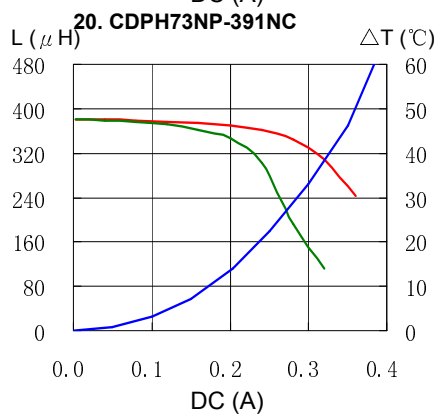
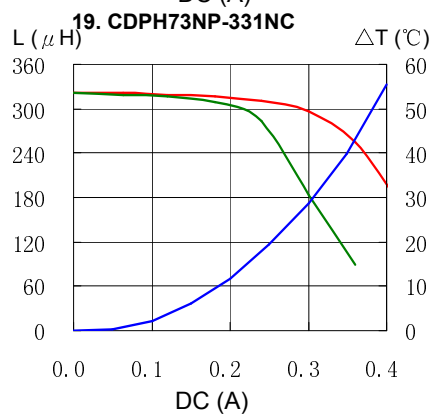
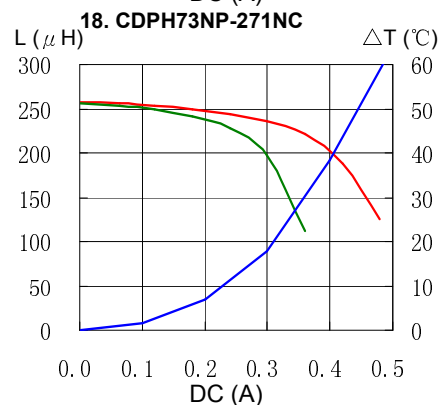
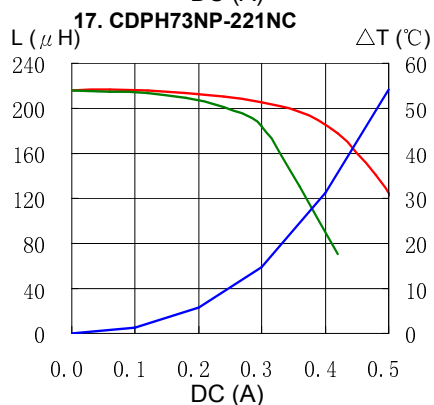
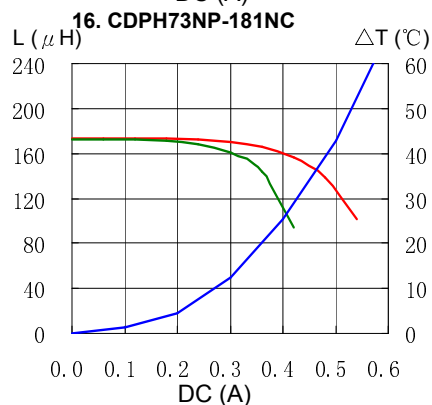
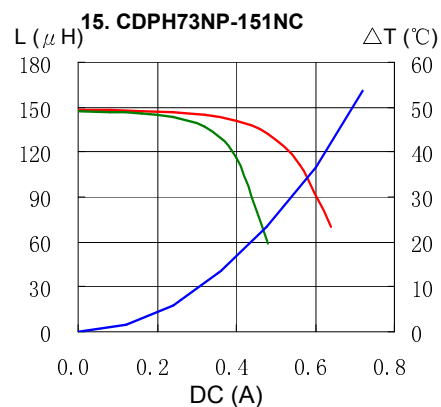
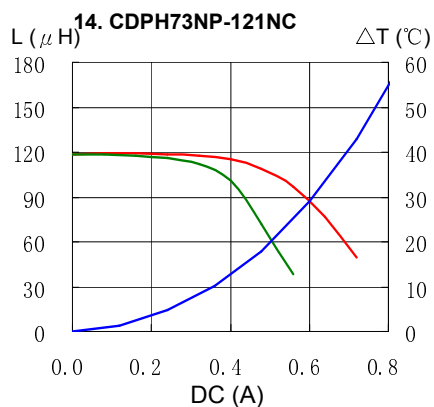
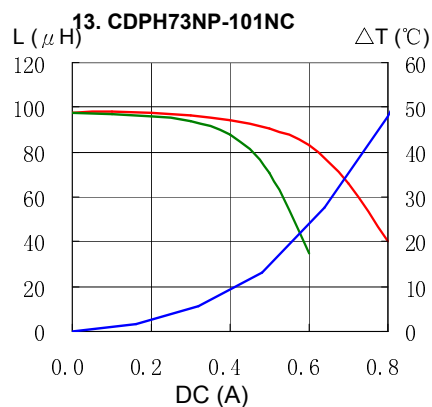


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## Saturation Current & Temperature Rise Graph

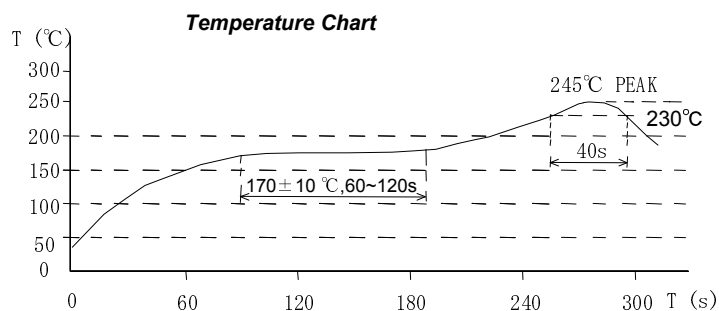
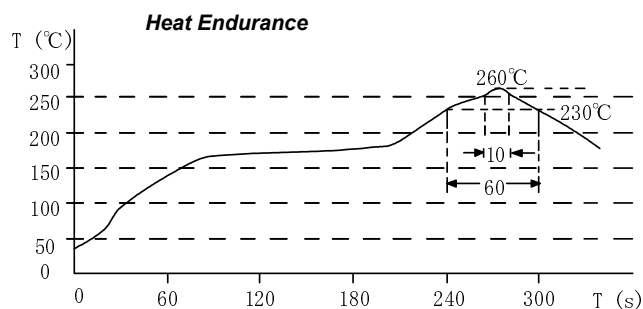
— L (20°C) — L (100°C) —  $\Delta T$



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## Solder Reflow Condition



Please refer to the sales offices on our website - <http://www.sumida.com>

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