

# 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.

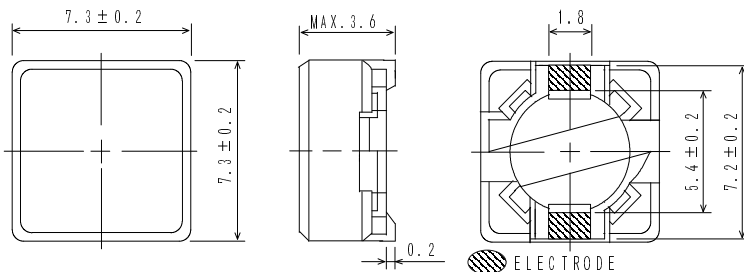
## Packaging

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

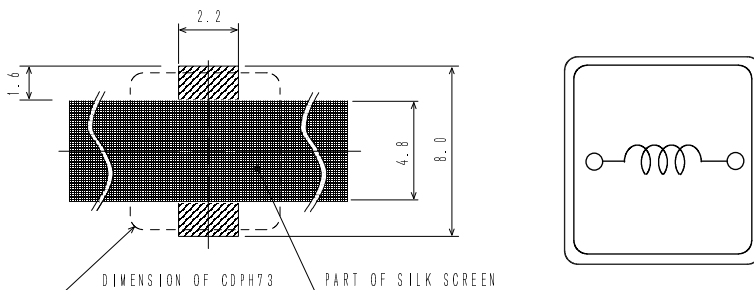
## Applications

- 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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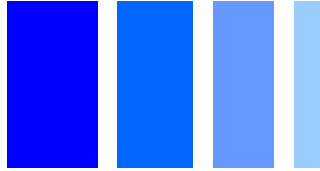
## Electrical Characteristics

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

※1. Inductance measuring condition: at 1kHz.

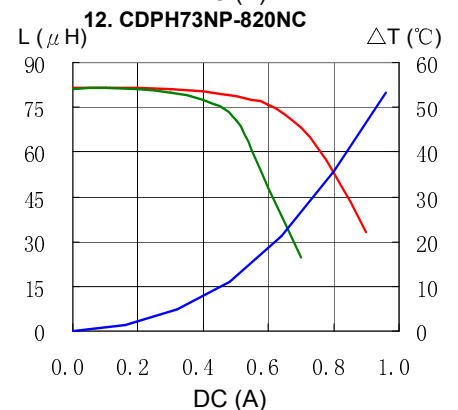
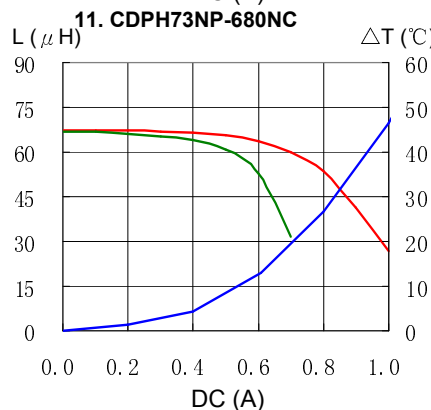
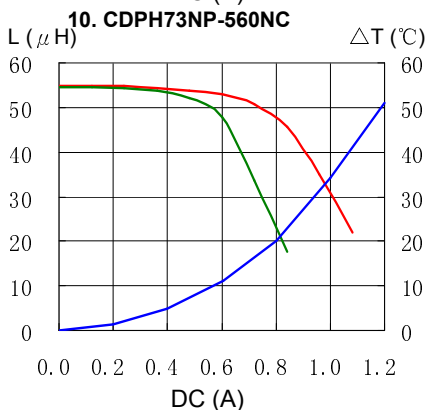
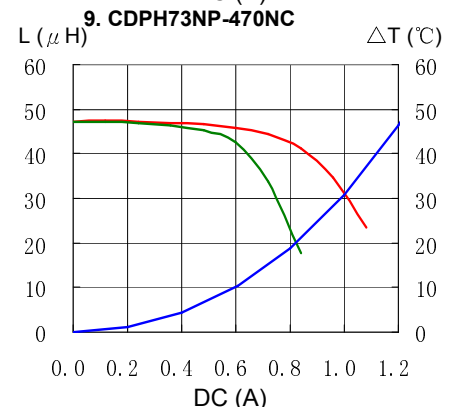
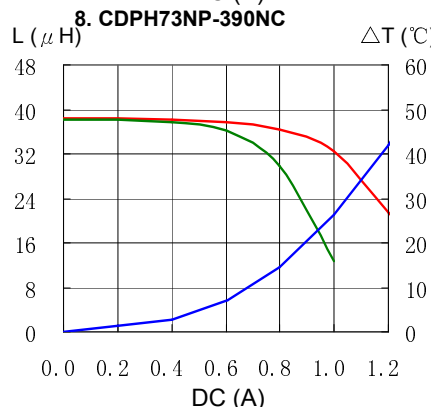
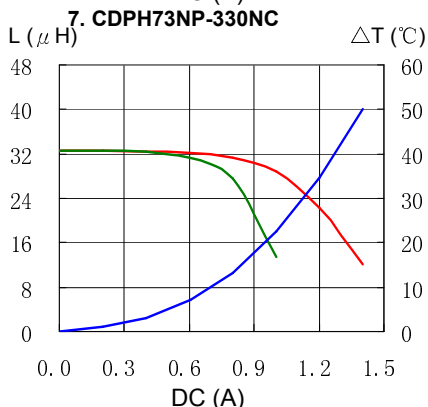
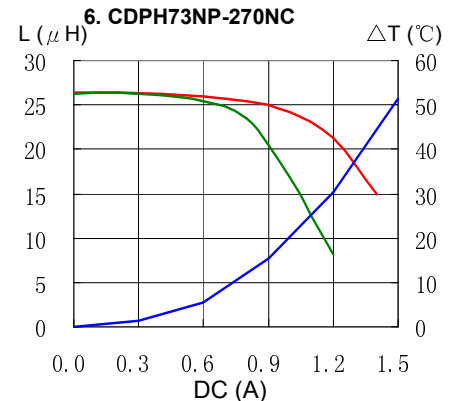
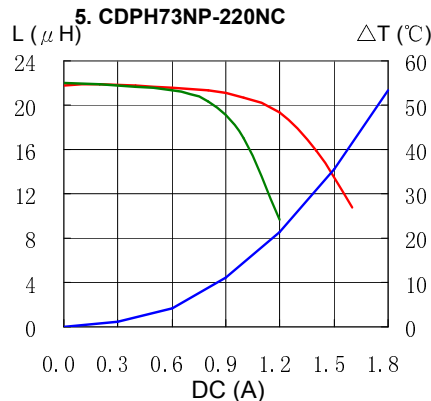
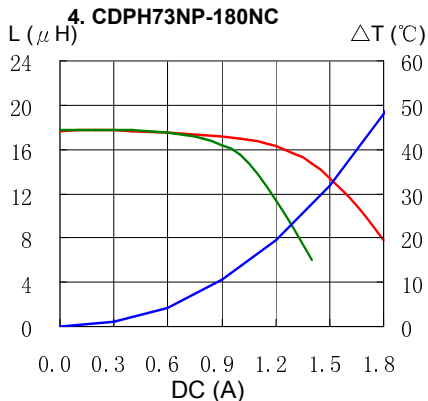
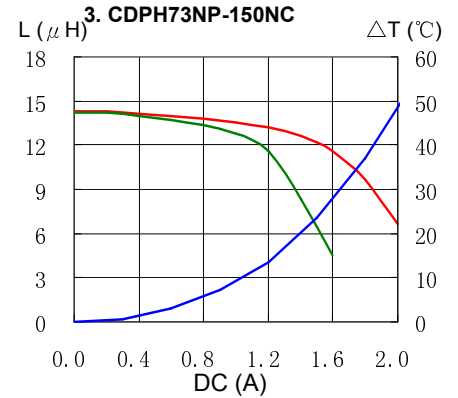
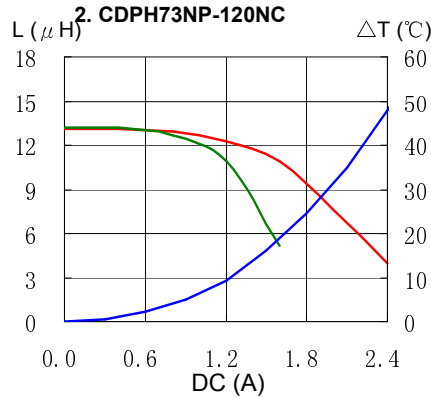
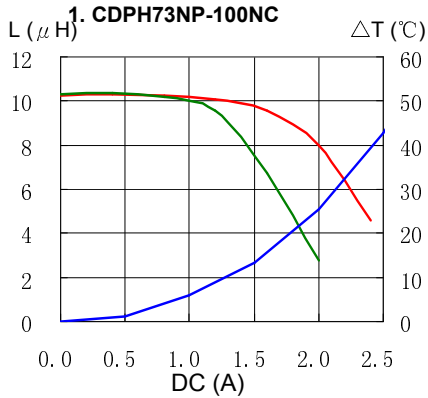
※2. Rated current: The DC current at which the inductance decreases to 75% of its nominal value or when  $\Delta t=40^\circ\text{C}$ , whichever is lower ( $T_a=20^\circ\text{C}$ ).

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## Saturation Current & Temperature Rise Graph

— L (20°C) — L (100°C) —  $\Delta T$

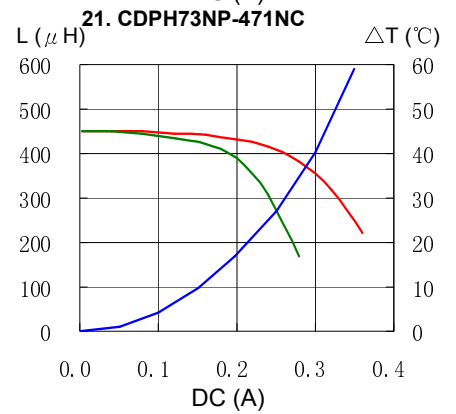
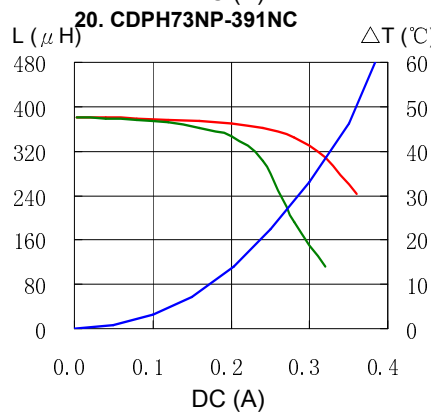
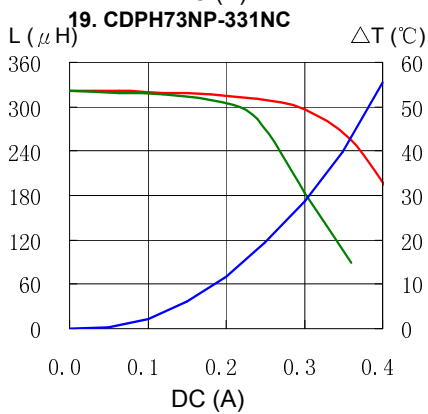
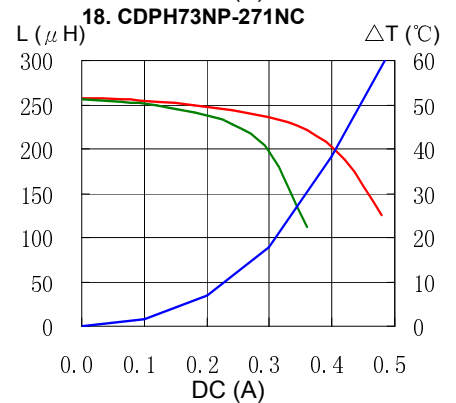
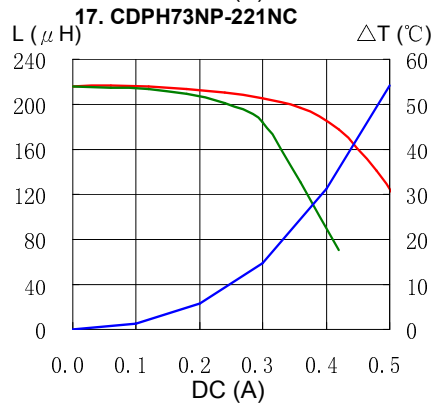
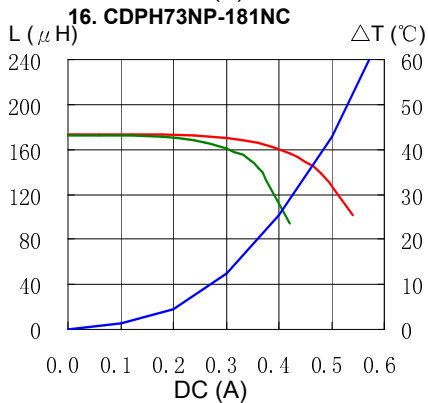
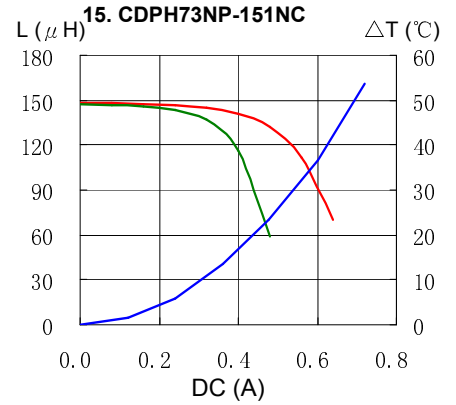
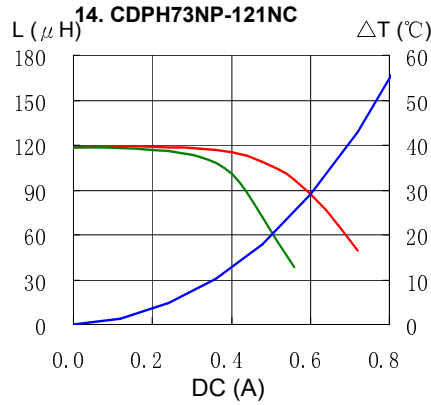
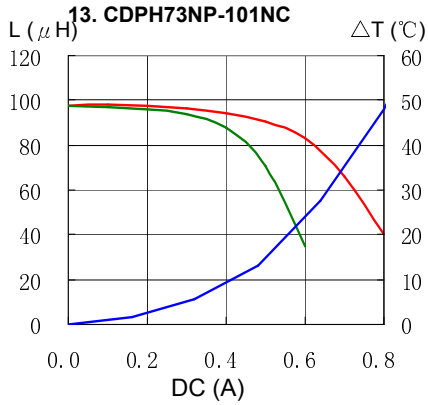


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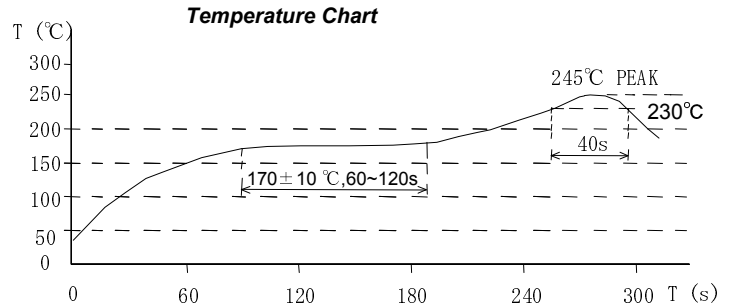
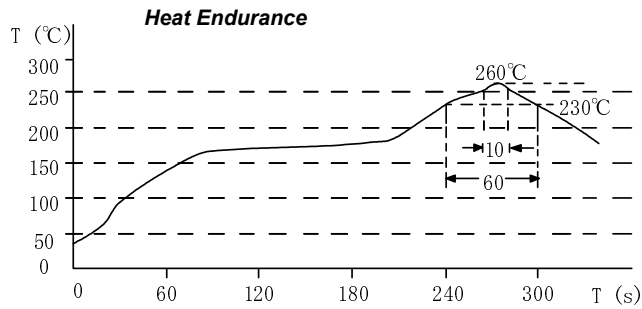
— L (20°C) — L (100°C) —  $\Delta T$



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## Solder Reflow Condition



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