



**THE DATASHEET OF  
CD73NP-331KC**



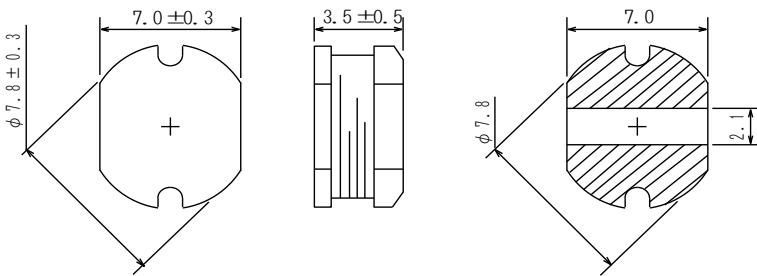
# SMD Power Inductor CD73



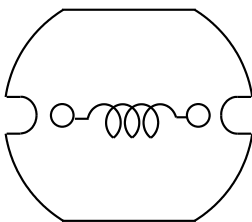
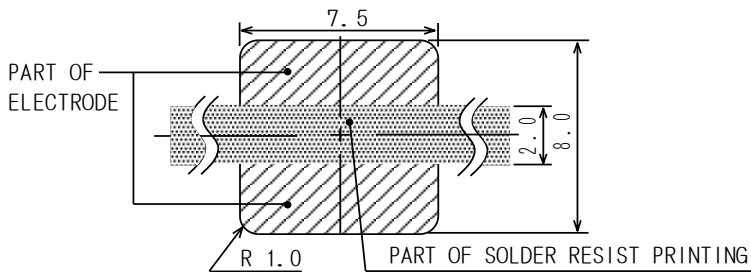
## Description

- Ferrite drum core construction.
- Magnetically unshielded.
- L × W × H: 8.1 × 7.3 × 4.0mm Max.
- Product weight:0.5g(Ref.)
- Moisture Sensitivity Level: 1
- RoHS compliance.

## Dimension - [mm]



## Land pattern and Schematics - [mm]



## Environmental Data

- Operating temperature range:  $-30^{\circ}\text{C} \sim +100^{\circ}\text{C}$  (including coil's self temperature rise)
- Storage temperature range:  $-30^{\circ}\text{C} \sim +100^{\circ}\text{C}$
- Solder reflow temperature:  $260^{\circ}\text{C}$  peak.

## Packaging

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

## Applications

- Ideally used in PDA,MP3,DSC/DVC,HDD, Portable DVD, etc as DC-DC converter inductors.



### Electrical Characteristics

Part Name	Stamp	Inductance ( $\mu\text{H}$ ) [ within ] ※1	D.C.R. (m $\Omega$ ) [Max.] (TYP.) (at 20°C)	Rated Current (A) ※2
CD73NP-100MC	100M	10 $\pm$ 20%	80.3(61.8)	1.44
CD73NP-120MC	120M	12 $\pm$ 20%	89.7(69.0)	1.39
CD73NP-150MC	150M	15 $\pm$ 20%	104(80.3)	1.24
CD73NP-180MC	180M	18 $\pm$ 20%	111(85.0)	1.12
CD73NP-220MC	220M	22 $\pm$ 20%	129(99.2)	1.07
CD73NP-270MC	270M	27 $\pm$ 20%	153(118)	0.94
CD73NP-330MC	330M	33 $\pm$ 20%	170(131)	0.85
CD73NP-390MC	390M	39 $\pm$ 20%	217(167)	0.74
CD73NP-470MC	470M	47 $\pm$ 20%	252(194)	0.68
CD73NP-560KC	560K	56 $\pm$ 10%	282(217)	0.64
CD73NP-680KC	680K	68 $\pm$ 10%	332(255)	0.59
CD73NP-820KC	820K	82 $\pm$ 10%	406(312)	0.54
CD73NP-101KC	101K	100 $\pm$ 10%	481(370)	0.51
CD73NP-121KC	121K	120 $\pm$ 10%	536(412)	0.49
CD73NP-151KC	151K	150 $\pm$ 10%	755(581)	0.40
CD73NP-181KC	181K	180 $\pm$ 10%	1022(786)	0.36
CD73NP-221KC	221K	220 $\pm$ 10%	1200(923)	0.31
CD73NP-271KC	271K	270 $\pm$ 10%	1306(1045)	0.29
CD73NP-331KC	331K	330 $\pm$ 10%	1495(1196)	0.28

※1: Inductance measuring frequency: 10 $\mu\text{H}$  ~ 82 $\mu\text{H}$  ; at 2.52 MHz.  
100 $\mu\text{H}$  ~ 330 $\mu\text{H}$  ; at 1 kHz.

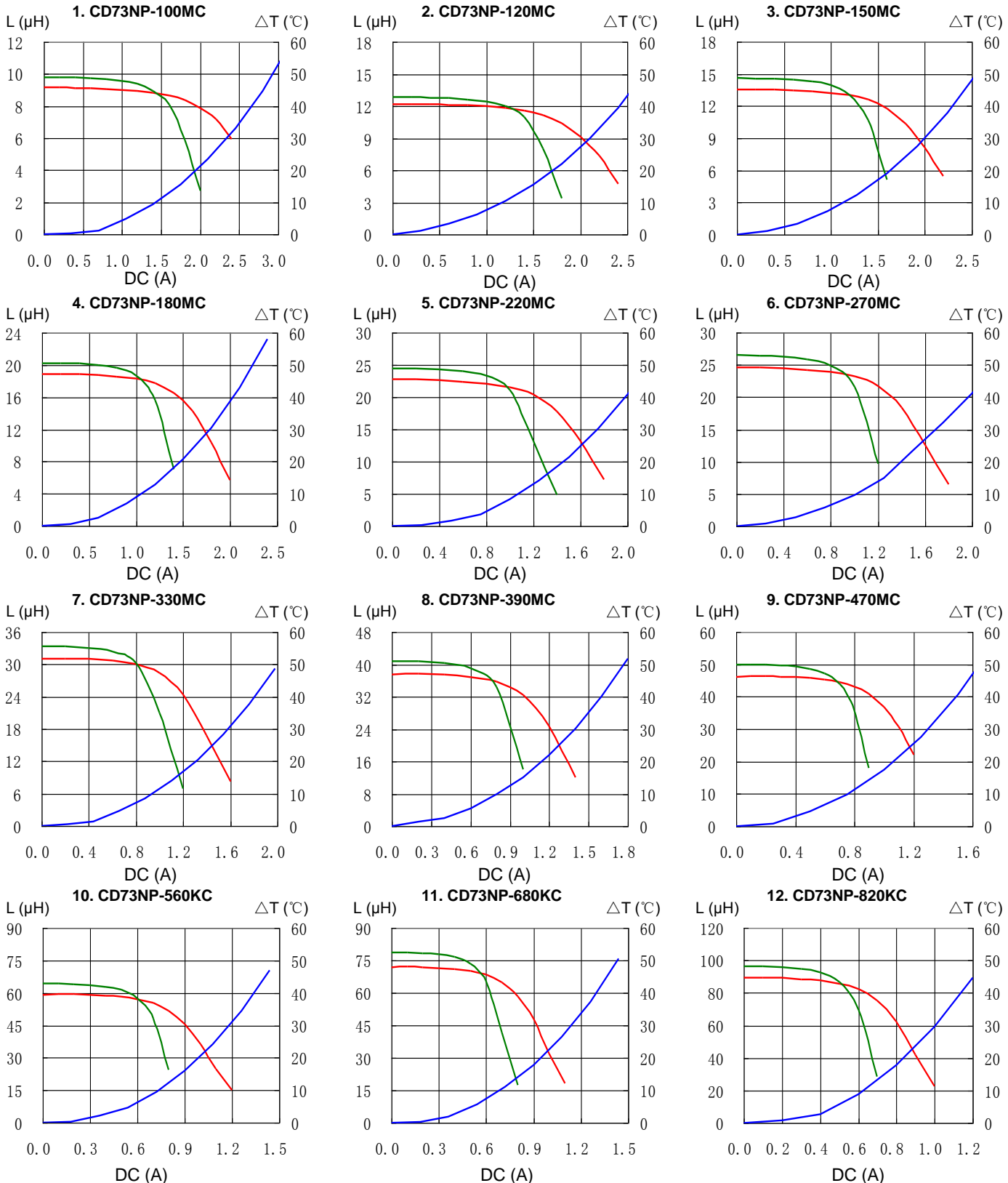
※2: Rated current: The DC current at which the inductance decreases to 90 % of it's initial value or when  $\Delta t=40^\circ\text{C}$ , whichever is lower (Ta=20°C).

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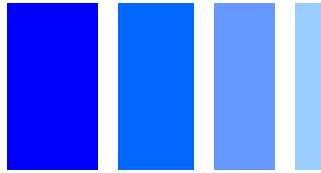


## Saturation Current & Temperature Rise Graph

— L (25°C) — L (105°C) —  $\Delta T$

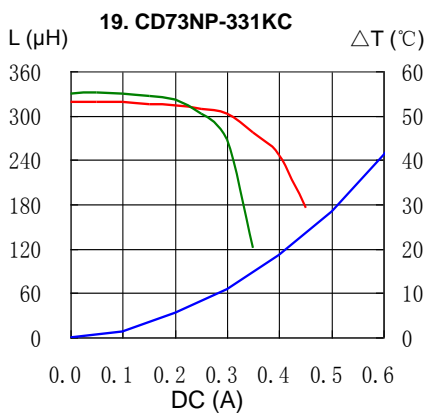
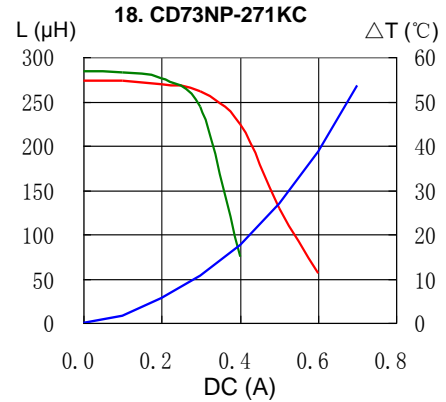
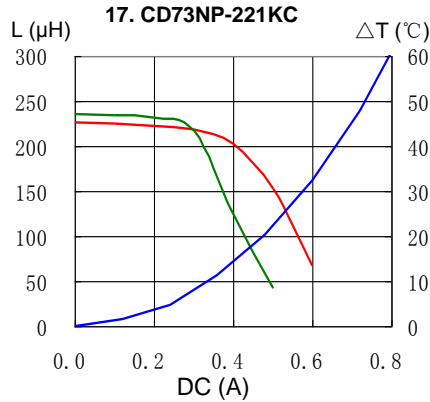
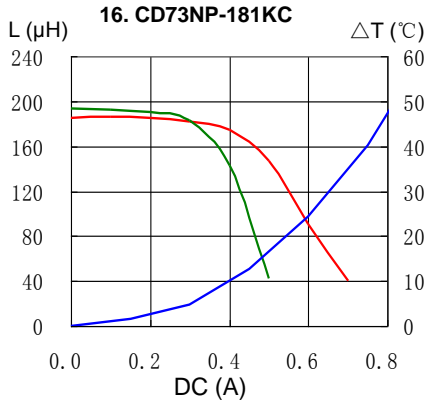
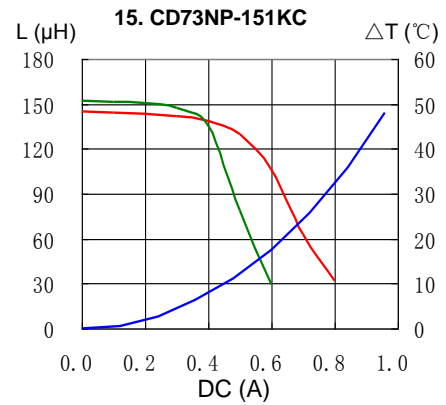
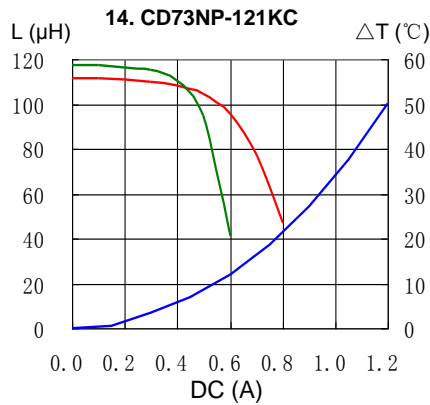
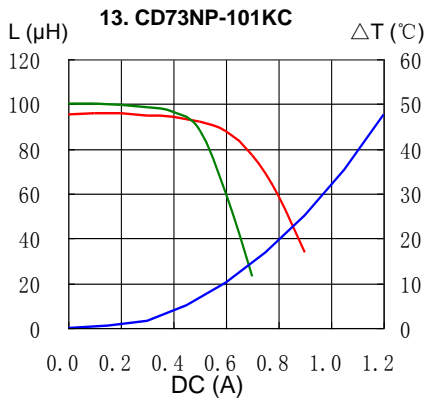


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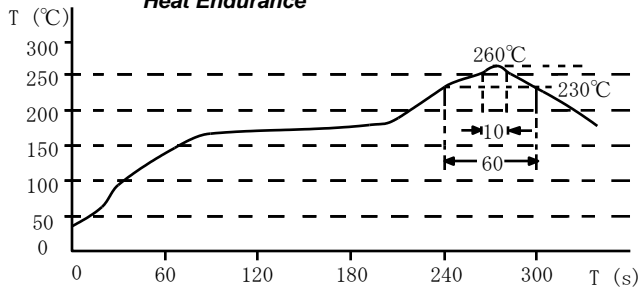


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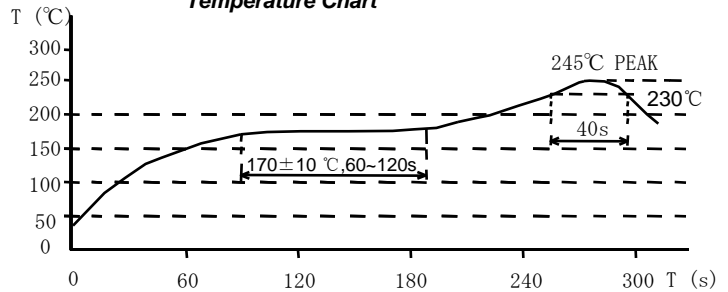


## Solder Reflow Condition

Heat Endurance



Temperature Chart



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