



**THE DATASHEET OF  
CD75NP-470KC**



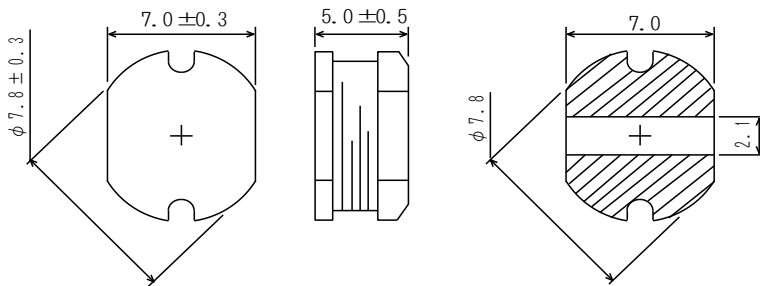
# SMD Power Inductor CD75



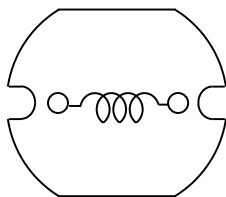
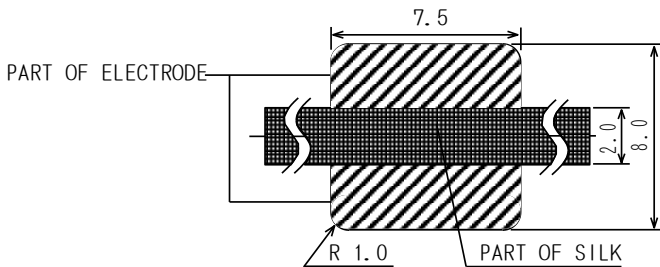
## Description

- Ferrite drum core construction.
- Magnetically unshielded.
- L × W × H: 8.1 × 7.3 × 5.5mm Max.
- Product weight: 0.76g(Ref.)
- Moisture Sensitivity Level: 1
- RoHS compliance.

## Dimension - [mm]



## Land pattern and Schematics - [mm]



## 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
- 500pcs per reel

## Applications

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

# SMD Power Inductor CD75



## Electrical Characteristics

Part Name	Stamp	Inductance ( $\mu\text{H}$ ) [Within] ※1	D.C.R ( $\Omega$ ) [Max.] (at 20°C)	Rated Current (A) ※2
CD75NP-100KC	100K	10 $\pm$ 10%	0.07	2.3
CD75NP-120KC	120K	12 $\pm$ 10%	0.08	2.0
CD75NP-150KC	150K	15 $\pm$ 10%	0.09	1.8
CD75NP-180KC	180K	18 $\pm$ 10%	0.10	1.6
CD75NP-220KC	220K	22 $\pm$ 10%	0.11	1.5
CD75NP-270KC	270K	27 $\pm$ 10%	0.12	1.3
CD75NP-330KC	330K	33 $\pm$ 10%	0.13	1.2
CD75NP-390KC	390K	39 $\pm$ 10%	0.16	1.1
CD75NP-470KC	470K	47 $\pm$ 10%	0.18	1.1
CD75NP-560KC	560K	56 $\pm$ 10%	0.24	0.94
CD75NP-680KC	680K	68 $\pm$ 10%	0.28	0.85
CD75NP-820KC	820K	82 $\pm$ 10%	0.37	0.78
CD75NP-101KC	101K	100 $\pm$ 10%	0.43	0.72
CD75NP-121KC	121K	120 $\pm$ 10%	0.47	0.66
CD75NP-151KC	151K	150 $\pm$ 10%	0.64	0.58
CD75NP-181KC	181K	180 $\pm$ 10%	0.71	0.51
CD75NP-221KC	221K	220 $\pm$ 10%	0.96	0.49
CD75NP-271KC	271K	270 $\pm$ 10%	1.11	0.42
CD75NP-331KC	331K	330 $\pm$ 10%	1.26	0.40
CD75NP-391KC	391K	390 $\pm$ 10%	1.77	0.36
CD75NP-471KC	471K	470 $\pm$ 10%	1.96	0.34

※1: Inductance Measuring frequency: 10 $\mu\text{H}$  ~ 82 $\mu\text{H}$  ; at 2.52 MHz.  
100 $\mu\text{H}$  ~ 470 $\mu\text{H}$  ; at 1 kHz.

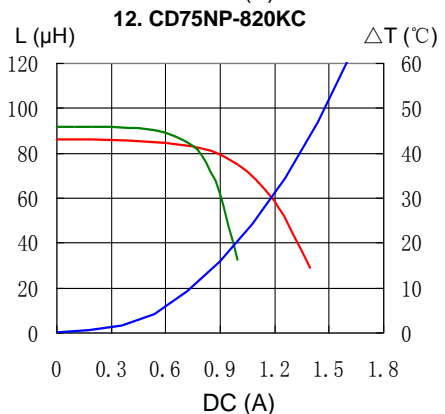
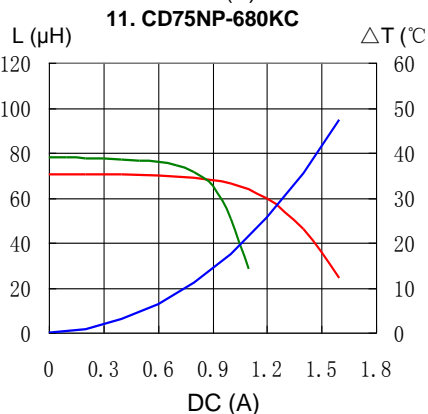
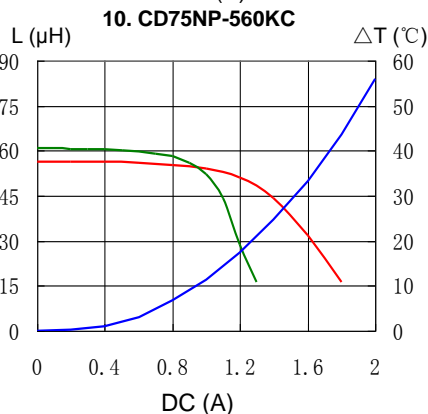
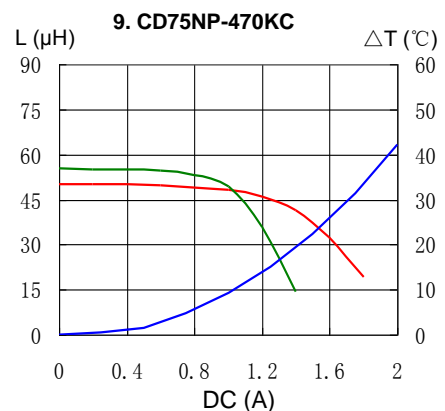
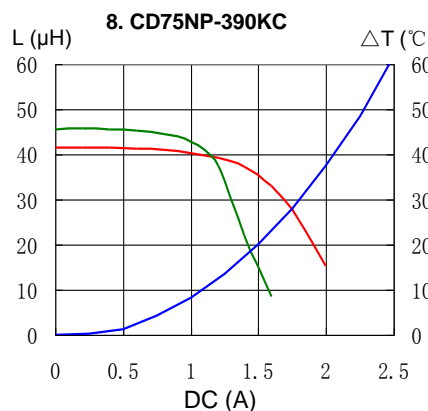
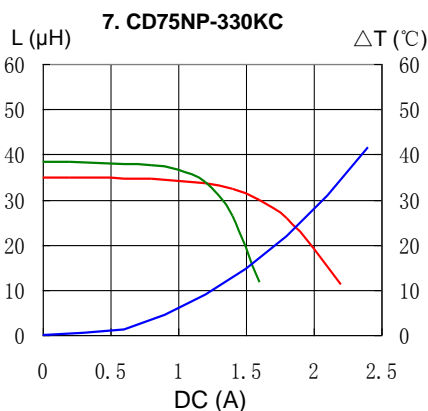
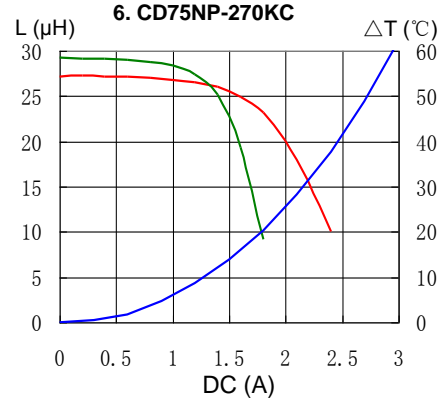
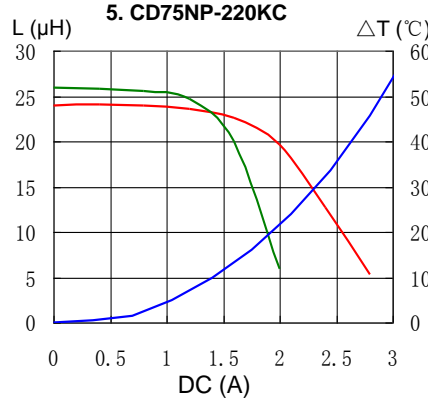
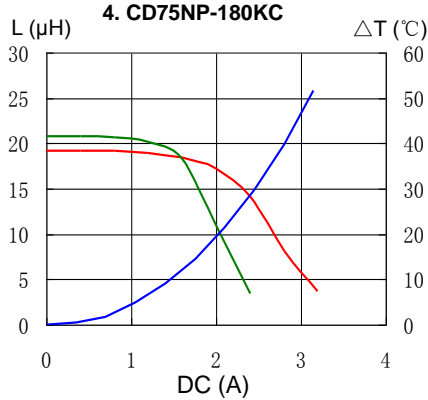
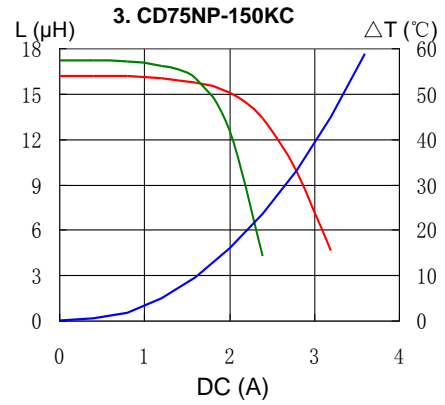
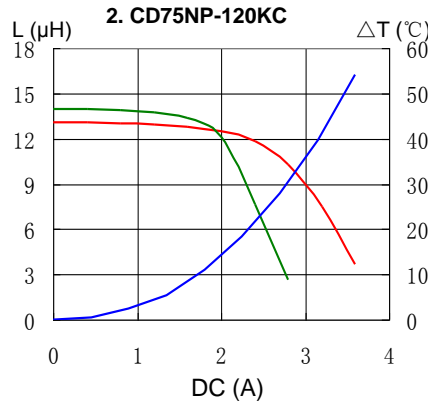
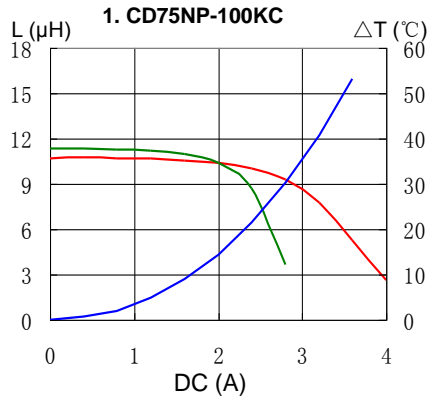
※2: Rated current: The DC current at which the inductance decreases to 90 % of its initial value or when  $\Delta t=40^\circ\text{C}$ , whichever is lower ( $T_a=20^\circ\text{C}$ ).

# SMD Power Inductor CD75



## Saturation Current & Temperature Rise Graph

— L (20°C) — L (105°C) —  $\Delta T$

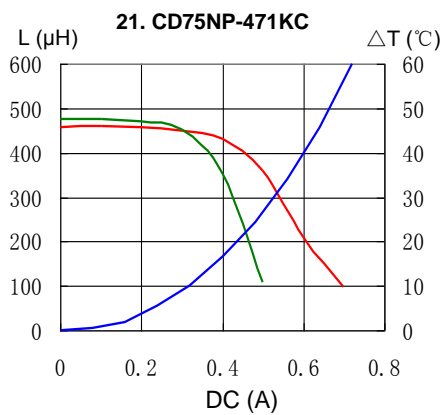
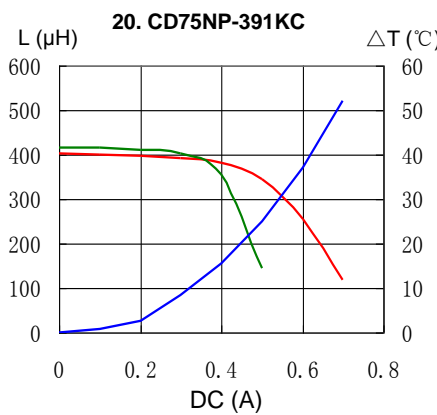
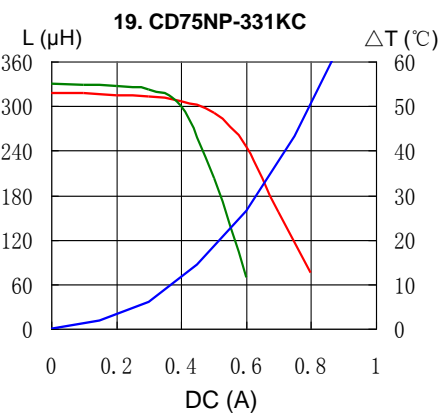
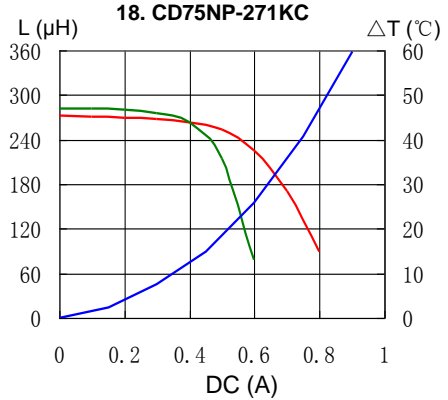
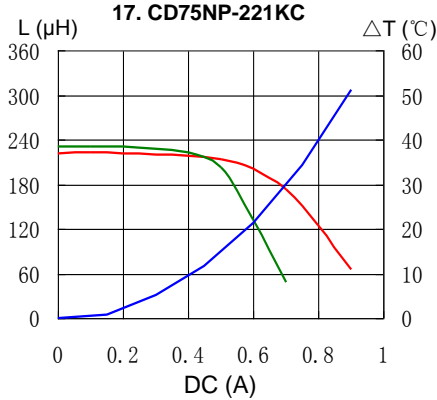
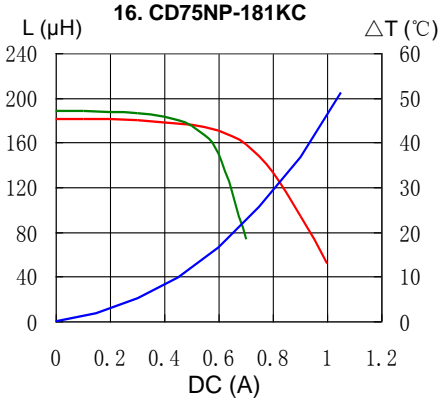
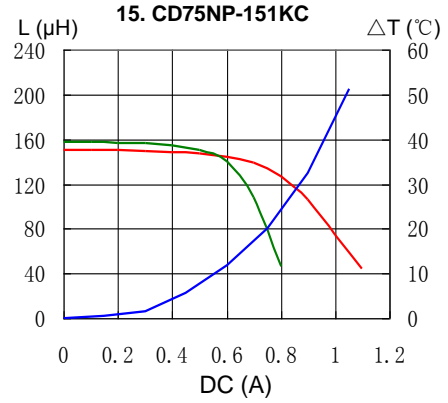
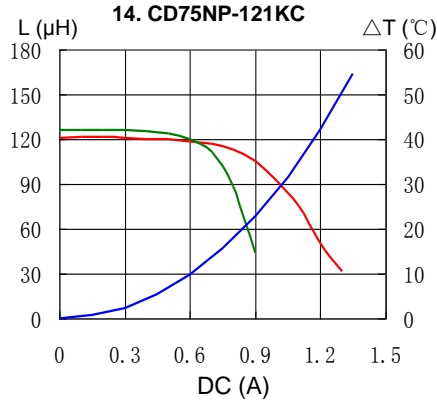
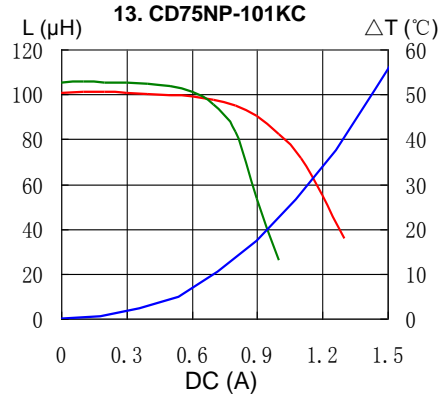


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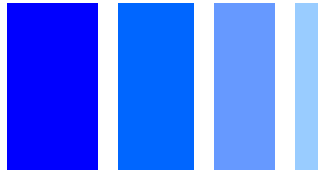


## Saturation Current & Temperature Rise Graph

— L (20°C) — L (105°C) —  $\Delta T$

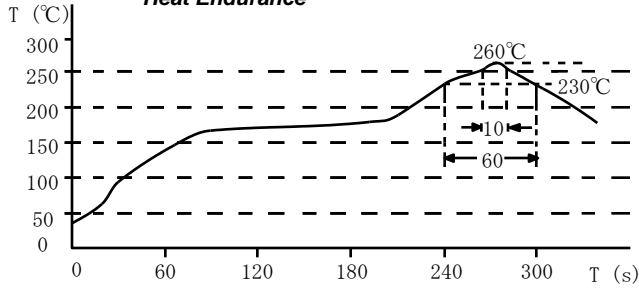


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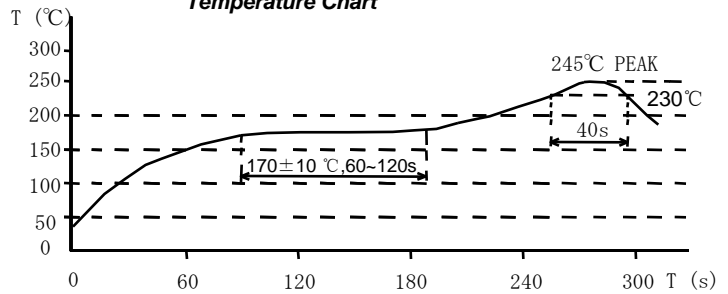


## Solder Reflow Condition

Heat Endurance



Temperature Chart



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