



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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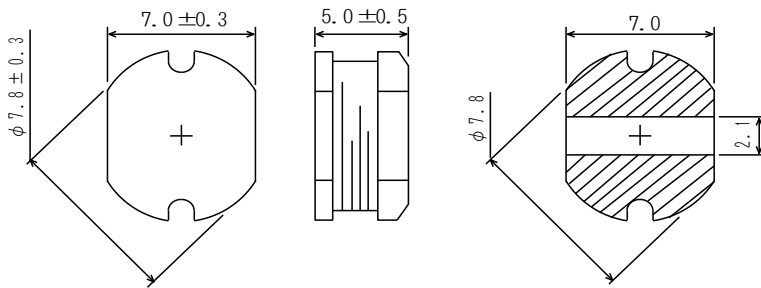
SMD Power Inductor CD75



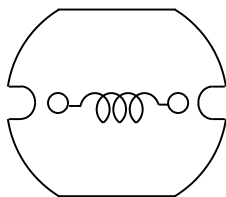
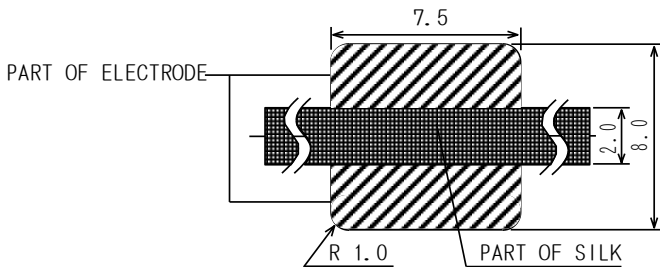
Description

- 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

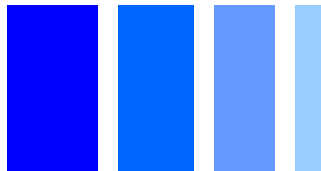
- Operating temperature range: -40°C ~ +100°C (including coil's self temperature rise)
- Storage temperature range: -40°C ~ +100°C
- Solder reflow temperature: 260 °C peak.

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.



Electrical Characteristics

Part Name	Stamp	Inductance (μH) [Within] ※1	D.C.R (Ω) [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 μH ~ 82 μH ; at 2.52 MHz.
100 μH ~470 μH ; at 1 kHz.

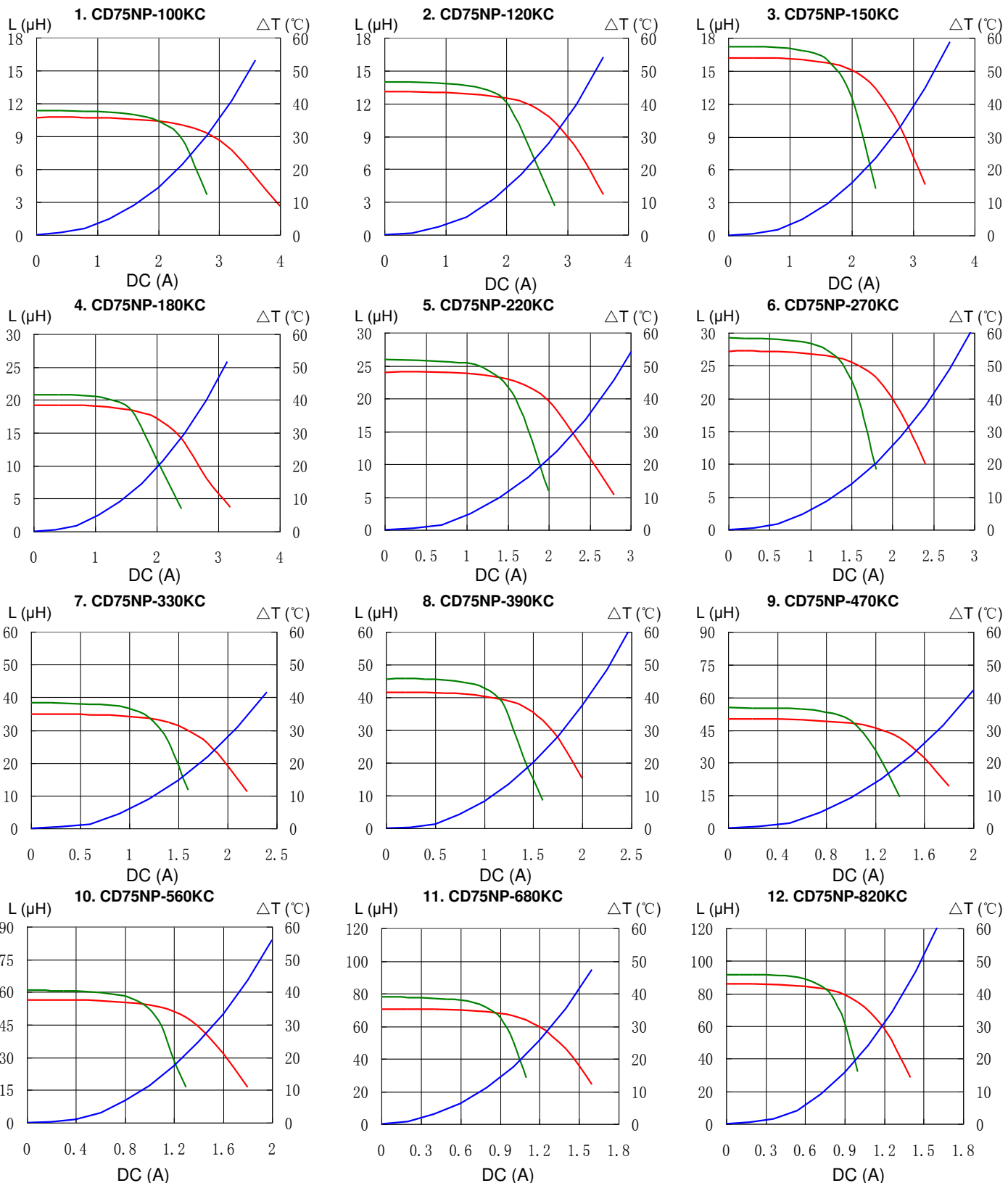
※2: Rated current: The DC current at which the inductance decreases to 90 % of its initial value or when $\Delta t=40^\circ\text{C}$, whichever is lower ($T_a=20^\circ\text{C}$).

SMD Power Inductor CD75



Saturation Current & Temperature Rise Graph

— L (20°C) — L (105°C) — ΔT

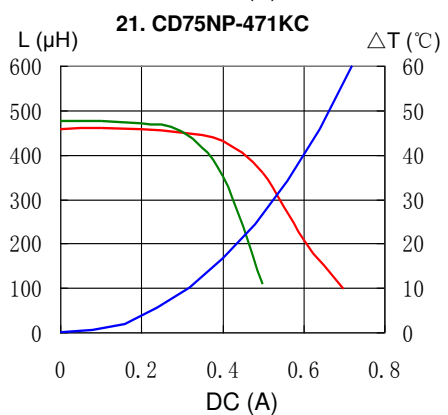
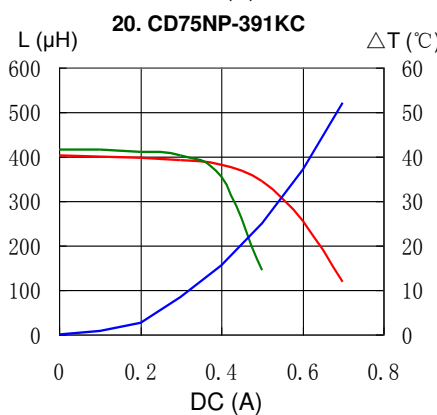
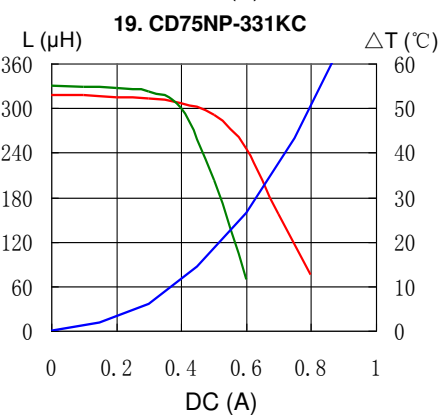
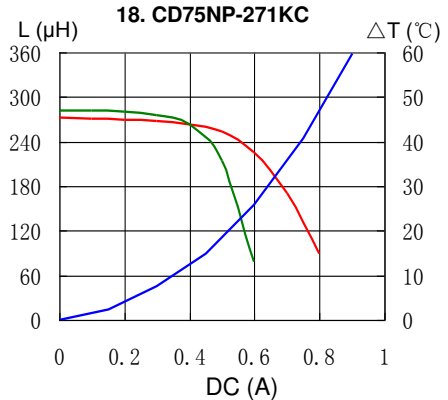
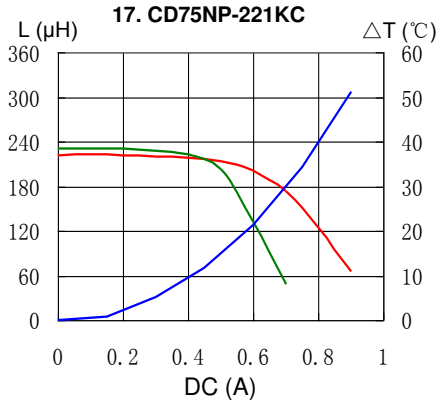
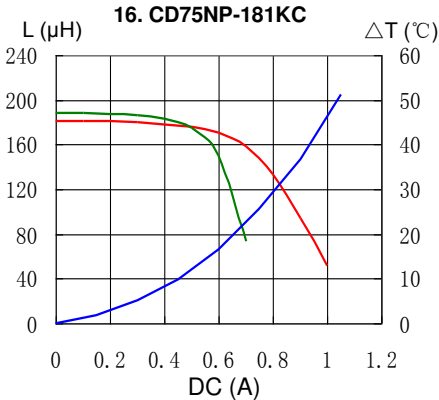
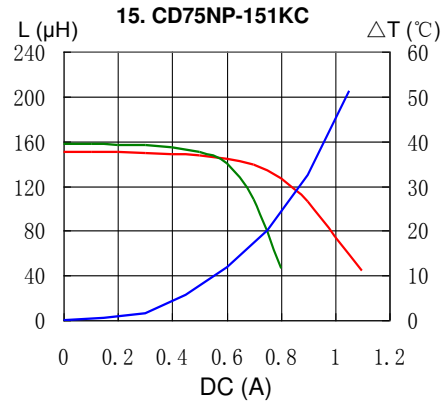
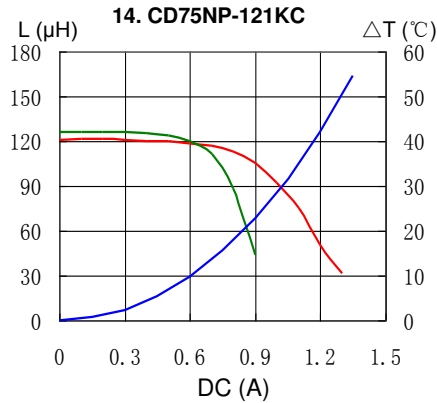
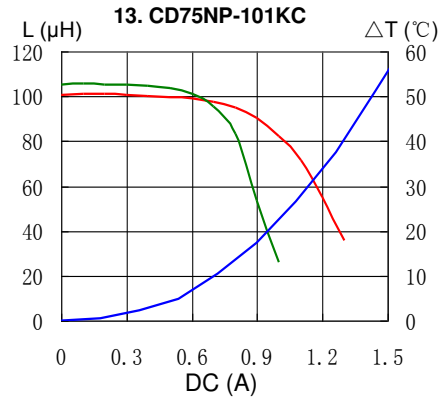


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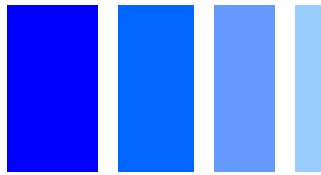


Saturation Current & Temperature Rise Graph

— L (20°C) — L (105°C) — ΔT

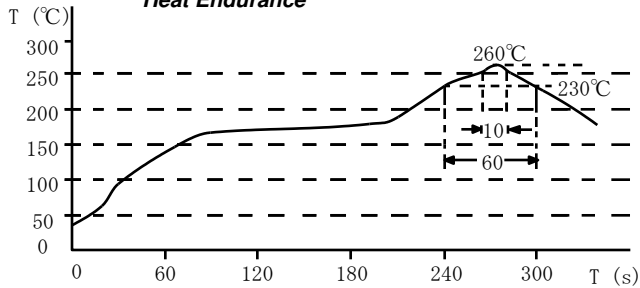


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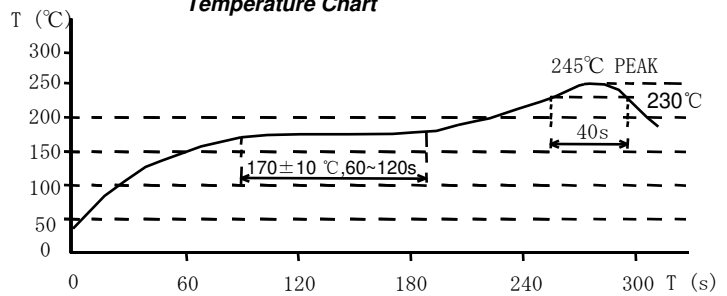


Solder Reflow Condition

Heat Endurance



Temperature Chart



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