



THE DATASHEET OF CD75NP-470KC

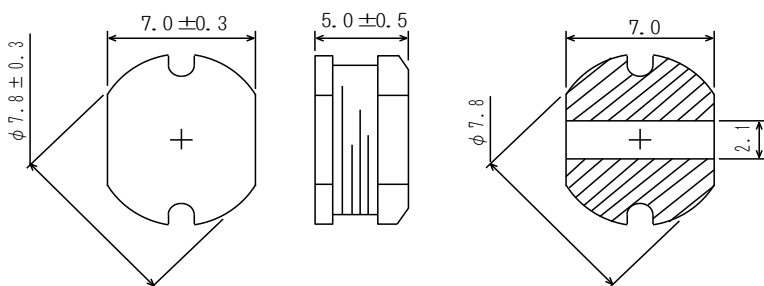
SMD Power Inductor CD75



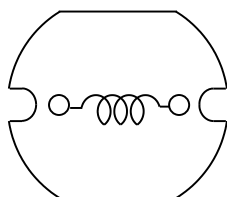
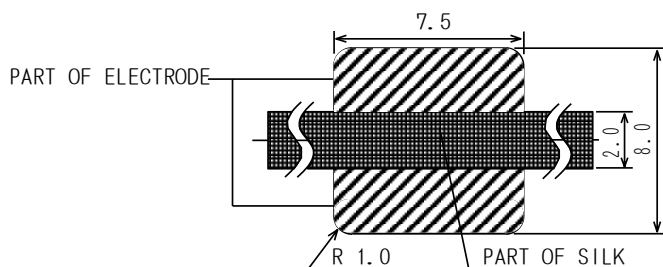
Description

- 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

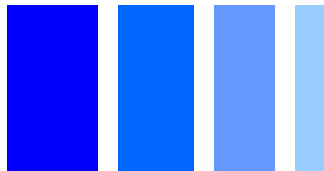
- Carrier tape and reel packaging.
- 12.9" diameter reel
- 500pcs per reel

Applications

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

SMD Power Inductor

CD75



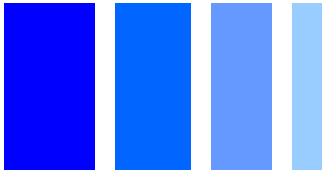
Electrical Characteristics

Part Name	Stamp	Inductance (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.

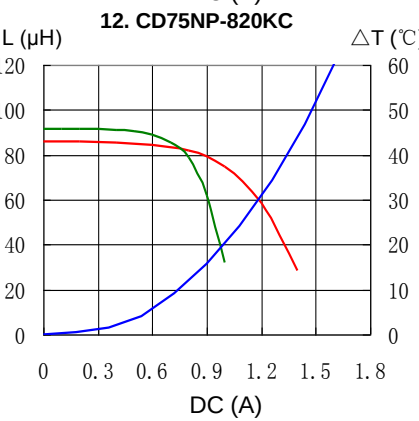
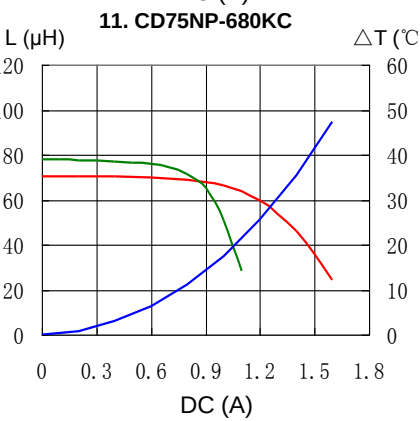
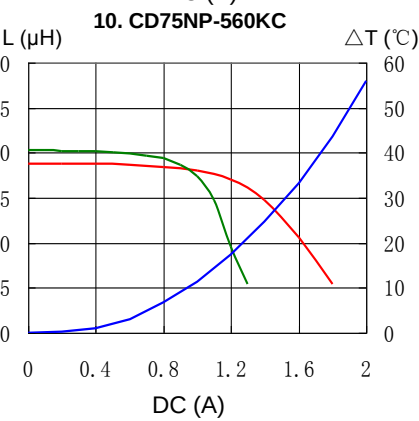
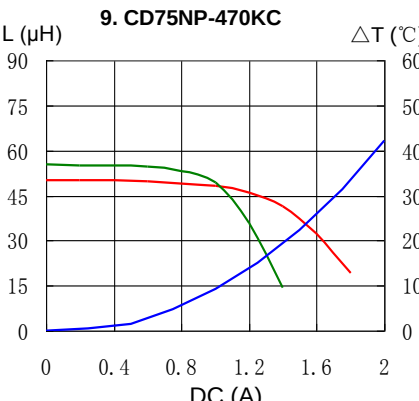
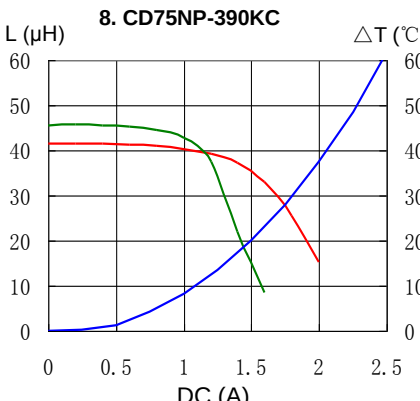
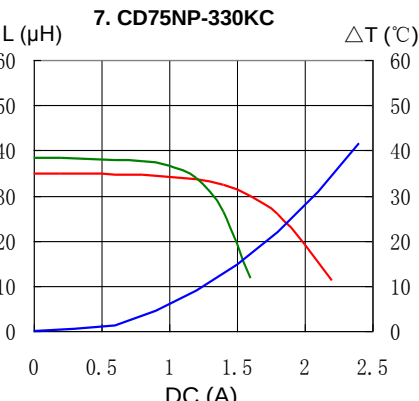
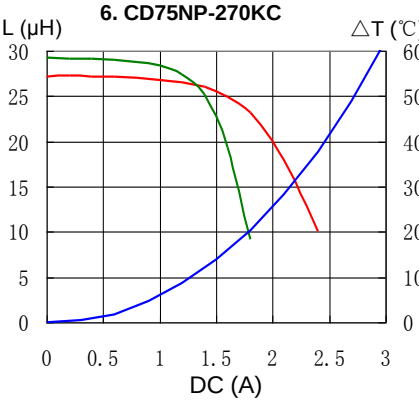
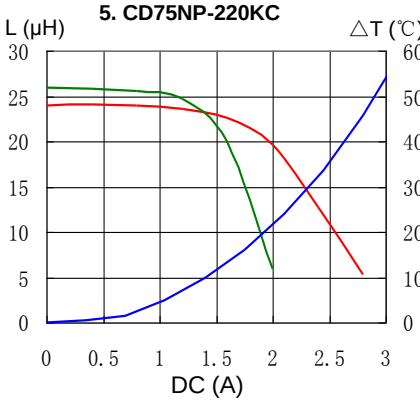
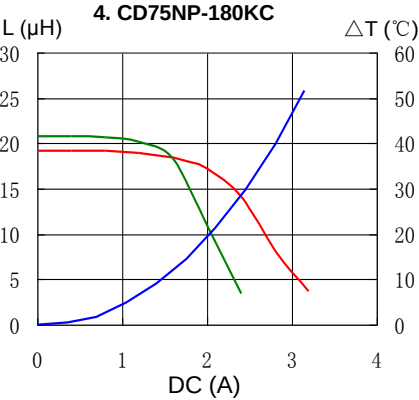
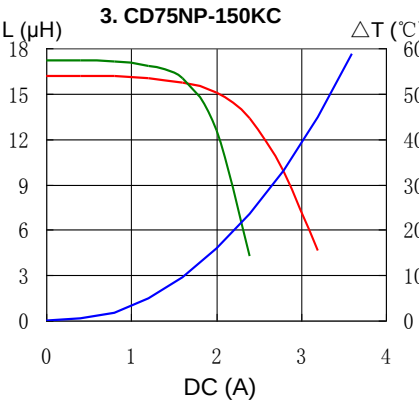
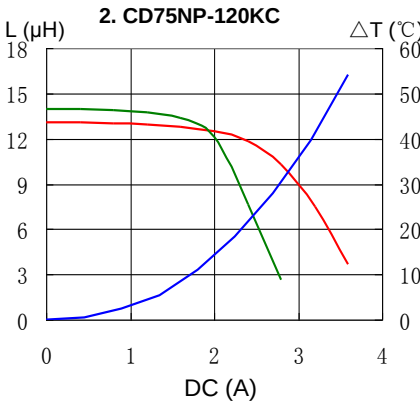
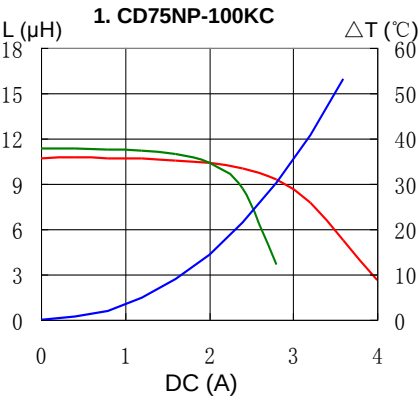
※2: Rated current: The DC current at which the inductance decreases to 90 % of it's initial value or when $\Delta t = 40^\circ\text{C}$, whichever is lower ($T_a = 20^\circ\text{C}$).

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Saturation Current & Temperature Rise Graph

— L (20°C) — L (105°C) — ΔT

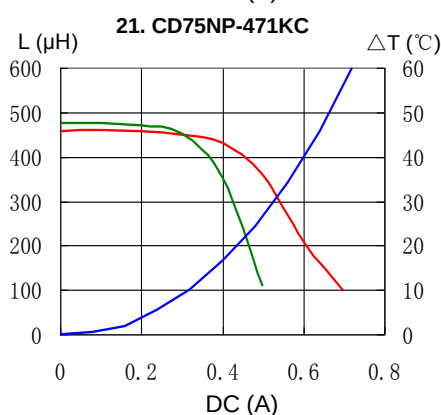
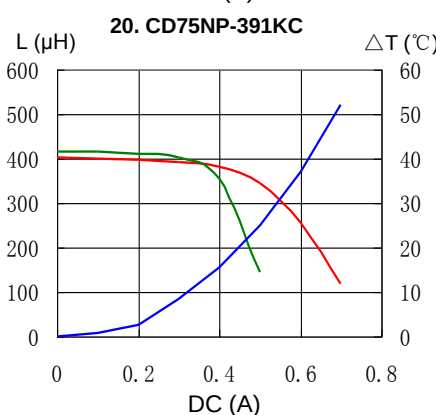
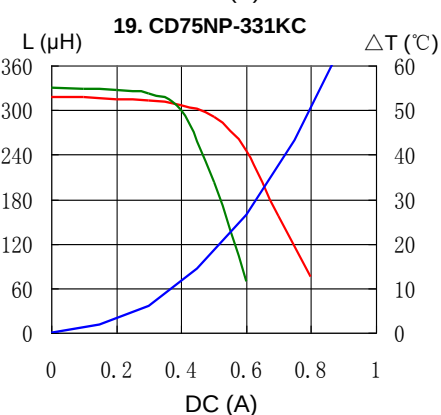
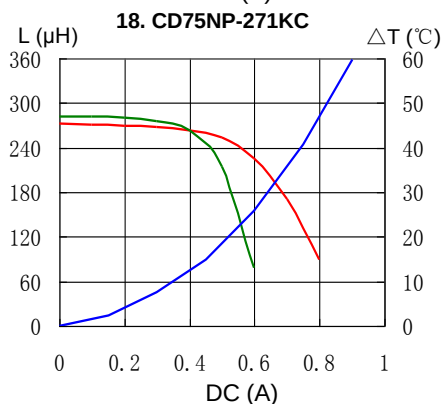
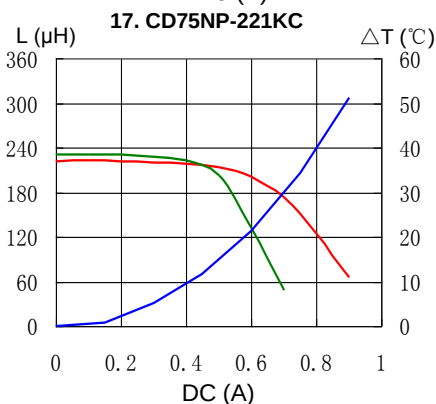
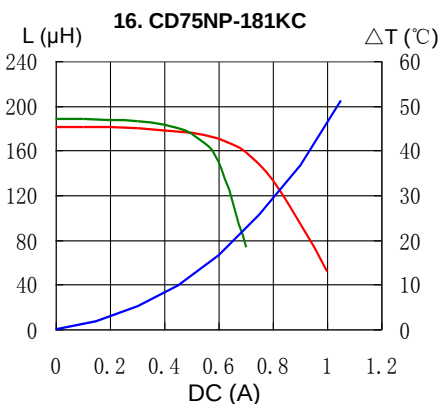
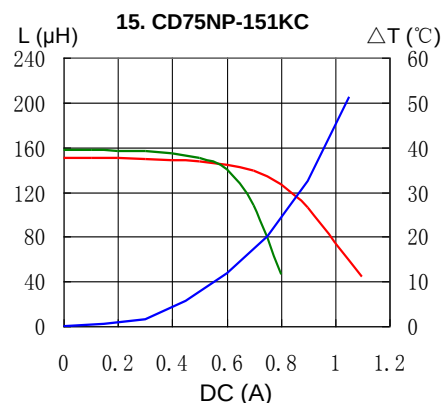
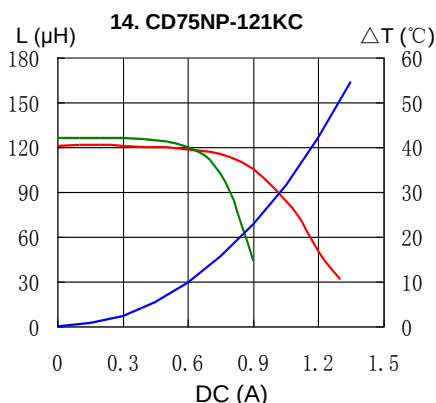
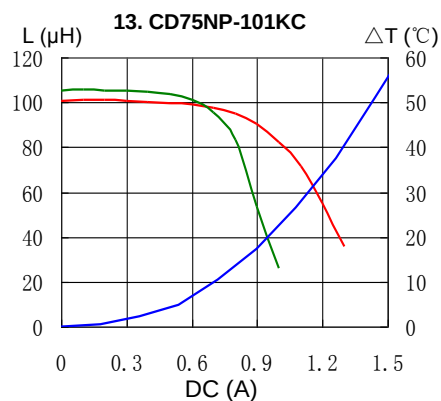


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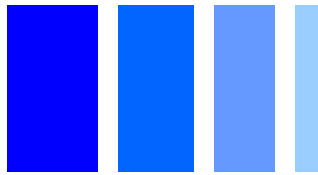


Saturation Current & Temperature Rise Graph

— L (20°C) — L (105°C) — ΔT

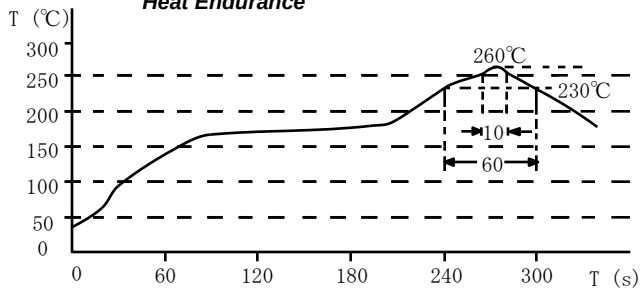


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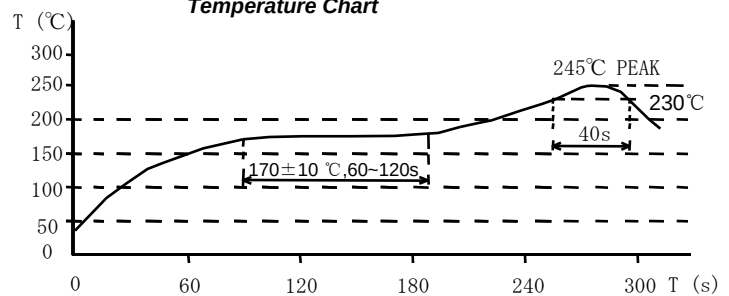


Solder Reflow Condition

Heat Endurance



Temperature Chart



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Hong Kong

Tel.+852-2880-6781
FAX.+852-2565-9600
sales@hk.sumida.com

Saitama(Japan)

Tel.+81-48-691-7300
FAX.+81-48-691-7340
sales@jp.sumida.com

Chicago

Tel.+1-847-545-6700
FAX. +1-847-545-6720
sales@us.sumida.com

Shanghai

Tel.+86-21-5836-3299
FAX.+86-21-5836-3266
shanghai.sales@cn.sumida.com

Seoul

Tel.+82-2-6237-0777
FAX.+82-2-6237-0778
sales@kr.sumida.com

Obernzell

Tel.+49-8591-937-0
FAX. +49-8591-937-103
contact@eu.sumida.com

Shenzhen

Tel.+86-755-8291-0228
FAX.+86-755-8291-0338
shenzhen.sales@cn.sumida.com

Singapore

Tel.+65-6296-3388
FAX.+65-6841-4426
sales@sg.sumida.com

Neumarkt

Tel.+49-9181-4509-110
FAX. +49-9181-4509-310
infocomp@eu.sumida.com

Taipei

Tel.+886-2-8751-2737
FAX.+886-2-8751-2738
sales@tw.sumida.com

San Jose

Tel.+1-408-321-9660
FAX.+1-408-321-9308
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