



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.

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Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China



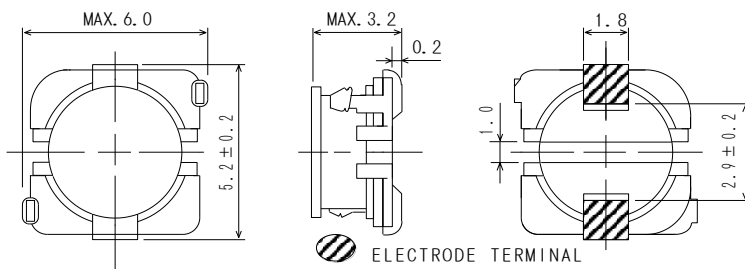
SMD Power Inductor CDH53



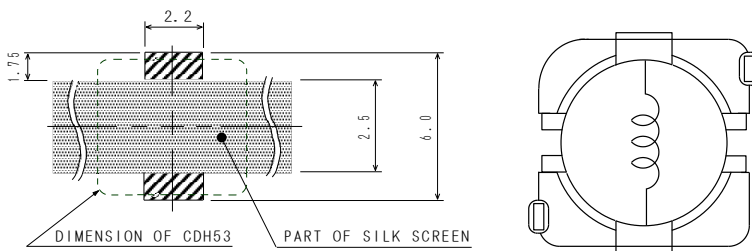
Description

- Ferrite drum core construction.
- Magnetically unshielded.
- L × W × H: 6.0 × 5.4 × 3.2 mm Max.
- Product weight: 0.18g(Ref.)
- Moisture Sensitivity Level: 1
- RoHS compliance.

Dimension - [mm]



Land pattern and Schematics - [mm]



Environmental Data

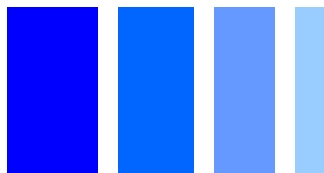
- Operating temperature range: -40°C ~ +100°C (including coil's self temperature rise)
- Storage temperature range: -40°C ~ +100°C
- Solder reflow temperature: 260 °C peak.

Packaging

- Carrier tape and reel packaging.
- 13" diameter reel
- 1500pcs per reel

Applications

- Ideally used in PDA, DVD, HDD, DVC, Game machine, Notebook PC, etc as DC-DC converter



Electrical Characteristics

Part Name	Stamp	Inductance (μH) [within] ※1	D.C.R. (Ω) Max. (Typ.) (at 20°C)	Rated Current (A) ※2
CDH53NP-2R2MC	2R2	2.2 \pm 20%	66m (51m)	2.03
CDH53NP-3R3MC	3R3	3.3 \pm 20%	88m (68m)	1.88
CDH53NP-4R7MC	4R7	4.7 \pm 20%	96m (74m)	1.68
CDH53NP-100LC	100	10 \pm 15%	0.16(0.13)	1.23
CDH53NP-120LC	120	12 \pm 15%	0.18(0.14)	1.12
CDH53NP-150KC	150	15 \pm 10%	0.25(0.20)	1.00
CDH53NP-180KC	180	18 \pm 10%	0.28(0.21)	0.88
CDH53NP-220KC	220	22 \pm 10%	0.39(0.30)	0.80
CDH53NP-270KC	270	27 \pm 10%	0.42(0.32)	0.72
CDH53NP-330KC	330	33 \pm 10%	0.49(0.38)	0.67
CDH53NP-390KC	390	39 \pm 10%	0.55(0.43)	0.64
CDH53NP-470KC	470	47 \pm 10%	0.77(0.59)	0.53
CDH53NP-560KC	560	56 \pm 10%	0.87(0.67)	0.50
CDH53NP-680JC	680	68 \pm 5%	1.21(0.96)	0.45
CDH53NP-820JC	820	82 \pm 5%	1.34(1.07)	0.39
CDH53NP-101JC	101	100 \pm 5%	1.57(1.25)	0.37
CDH53NP-121JC	121	120 \pm 5%	1.80(1.44)	0.34
CDH53NP-151JC	151	150 \pm 5%	2.40(1.92)	0.31
CDH53NP-181JC	181	180 \pm 5%	2.66(2.13)	0.30
CDH53NP-221JC	221	220 \pm 5%	3.73(2.99)	0.26

※1. Inductance measuring frequency: 2.2 μH ~ 4.7 μH at 7.96 MHz;
10 μH ~ 220 μH at 1kHz.

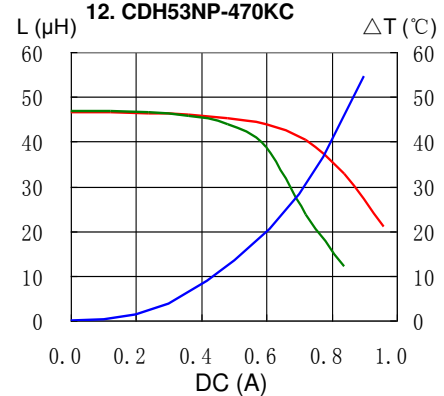
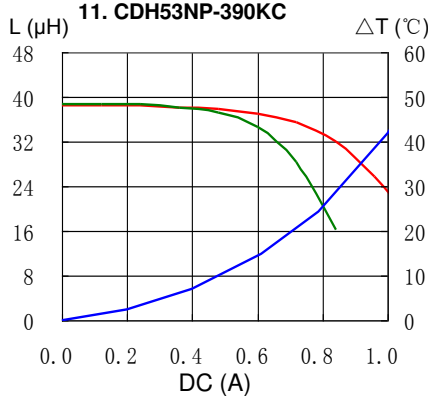
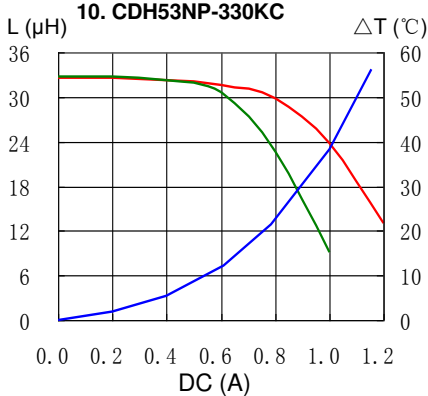
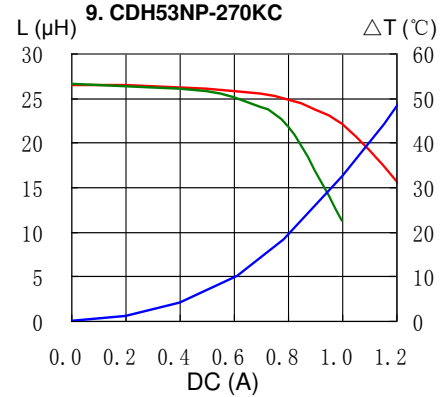
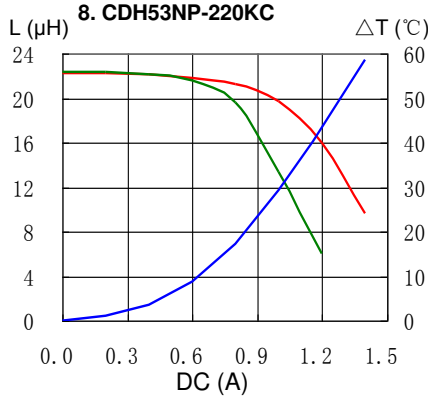
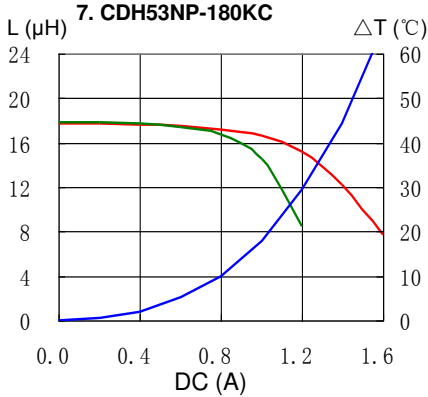
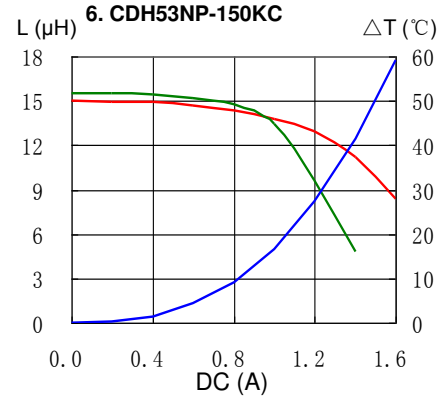
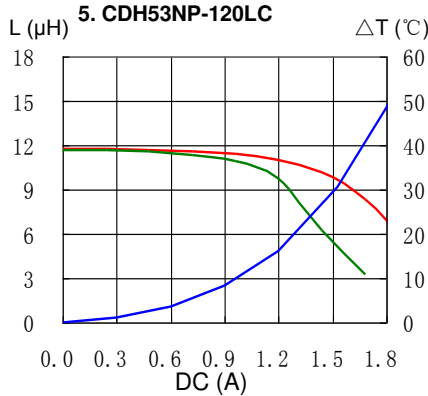
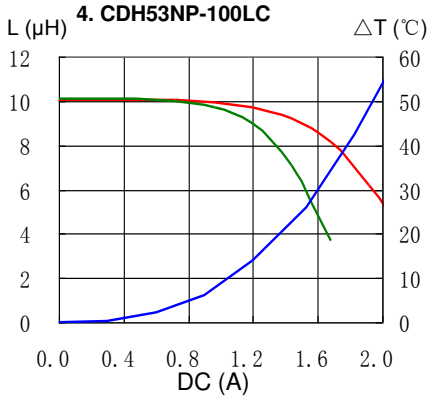
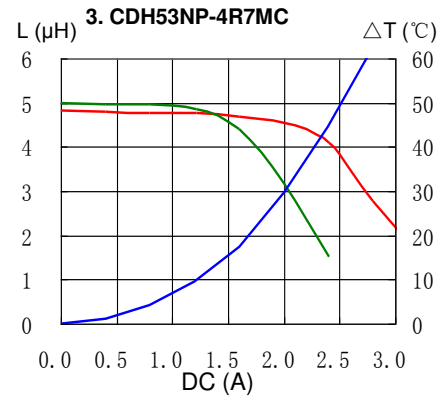
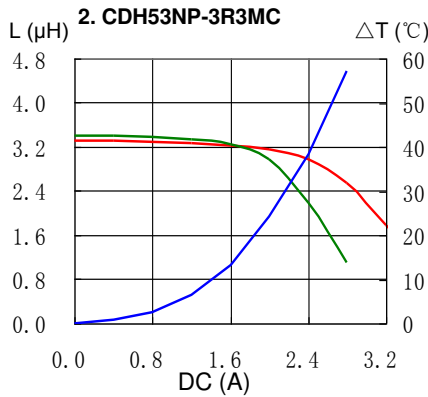
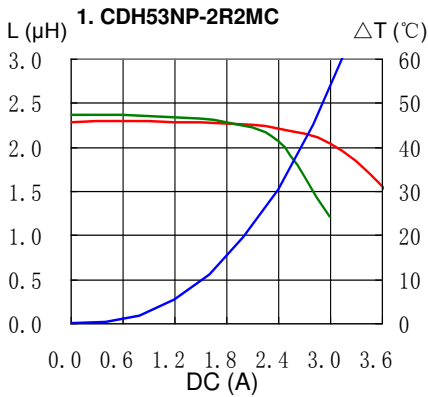
※2. Rated current: The DC current at which the inductance decreases to 90% of its initial value or when $\Delta t=40^\circ\text{C}$, whichever is lower ($T_a=20^\circ\text{C}$).

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Saturation Current & Temperature Rise Graph

— L (20°C) — L (100°C) — ΔT

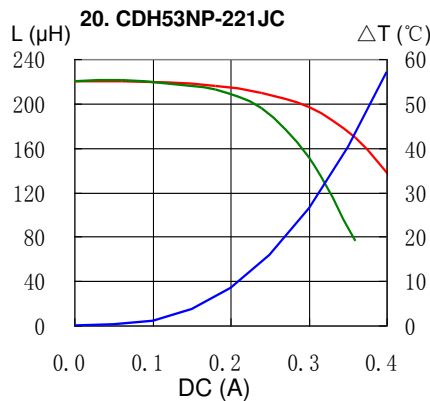
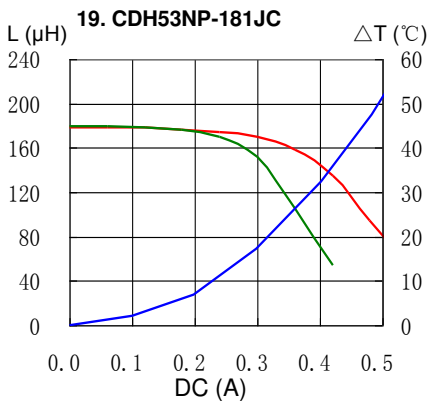
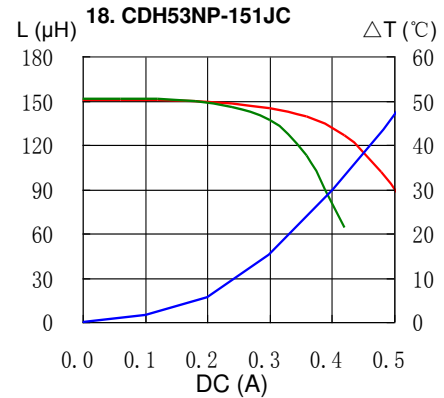
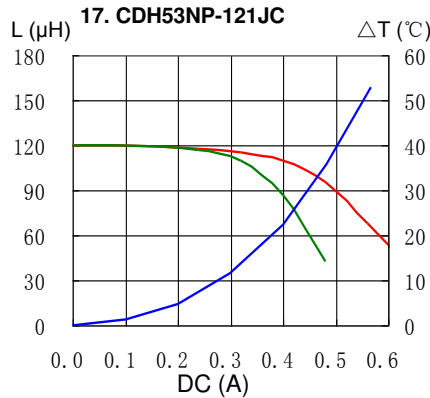
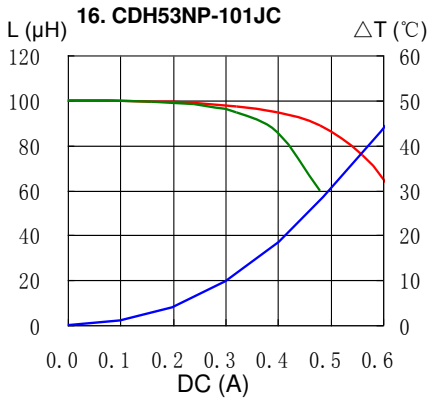
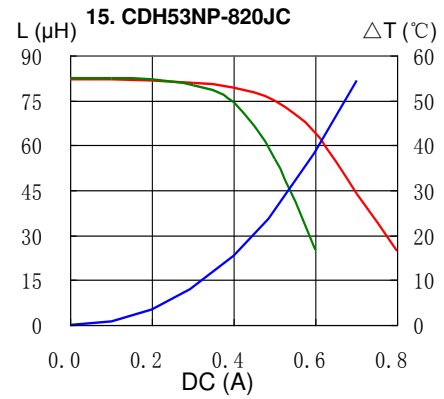
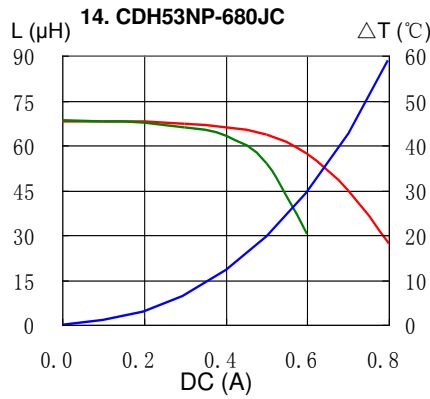
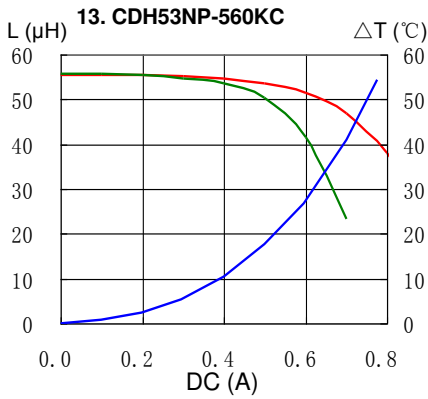


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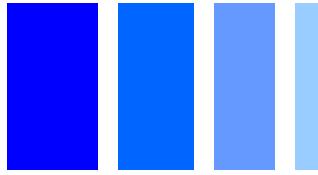


Saturation Current & Temperature Rise Graph

— L (20°C) — L (100°C) — ΔT

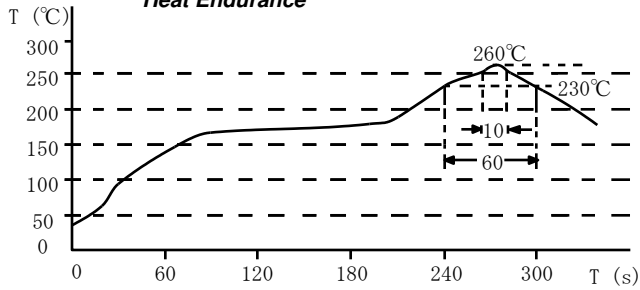


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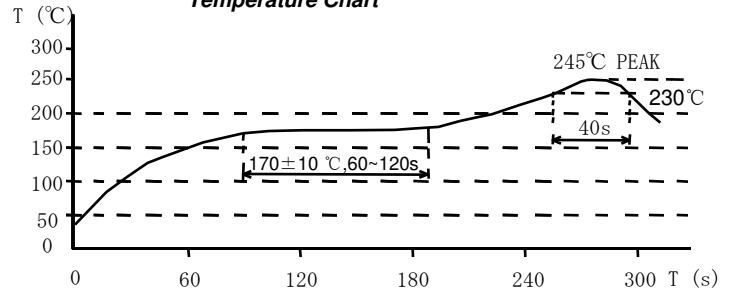


Solder Reflow Condition

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
sales@us.sumida.com