



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!



Contact us

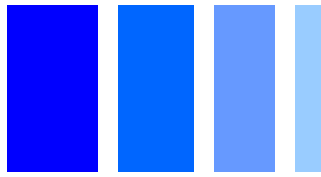
Tel: +86-755-8981 8866 Fax: +86-755-8427 6832

Email & Skype: info@chipsmall.com Web: www.chipsmall.com

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



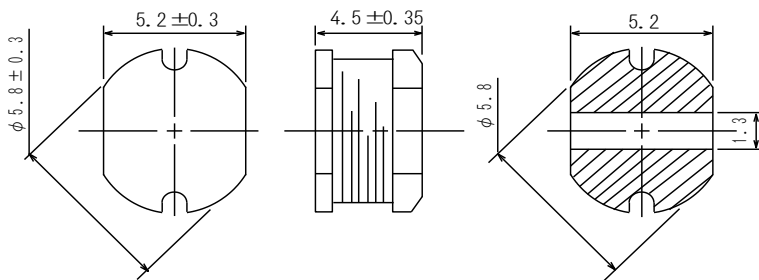
SMD Power Inductor CD54



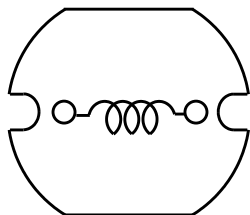
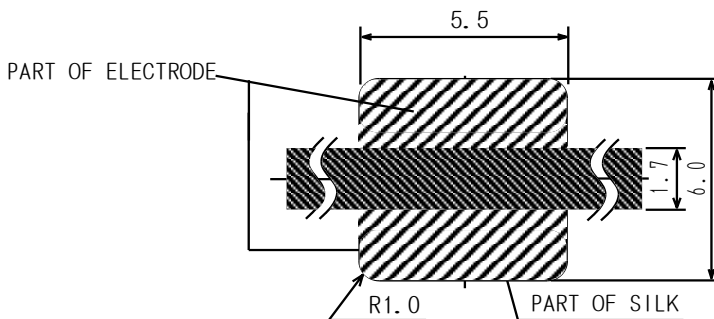
Description

- Ferrite drum core construction.
- Magnetically unshielded.
- L × W × H: 6.1 × 5.5 × 4.85mm Max.
- Product weight 0.4g(Ref.)
- Moisture Sensitivity Level: 1
- RoHS compliance.

Dimension - [mm]



Land pattern and Schematics - [mm]



Environmental Data

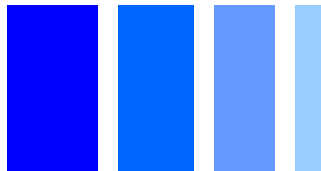
- Operating temperature range: -40°C ~ +100°C (including coil's self temperature rise)
- Storage temperature range: -40°C ~ +100°C
- Solder reflow temperature: 260 °C peak.

Packaging

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

Applications

- Ideally used in Mobilephone, PDA, MP3, DSC/DVC, 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
CD54NP-100MC	100	$10 \pm 20\%$	0.10	1.44
CD54NP-120MC	120	$12 \pm 20\%$	0.12	1.40
CD54NP-150MC	150	$15 \pm 20\%$	0.14	1.30
CD54NP-180MC	180	$18 \pm 20\%$	0.15	1.23
CD54NP-220MC	220	$22 \pm 20\%$	0.18	1.11
CD54NP-270MC	270	$27 \pm 20\%$	0.20	0.97
CD54NP-330LC	330	$33 \pm 15\%$	0.23	0.88
CD54NP-390LC	390	$39 \pm 15\%$	0.32	0.80
CD54NP-470LC	470	$47 \pm 15\%$	0.37	0.72
CD54NP-560KC	560	$56 \pm 10\%$	0.42	0.68
CD54NP-680KC	680	$68 \pm 10\%$	0.46	0.61
CD54NP-820KC	820	$82 \pm 10\%$	0.60	0.58
CD54NP-101KC	101	$100 \pm 10\%$	0.70	0.52
CD54NP-121KC	121	$120 \pm 10\%$	0.93	0.48
CD54NP-151KC	151	$150 \pm 10\%$	1.10	0.40
CD54NP-181KC	181	$180 \pm 10\%$	1.38	0.38
CD54NP-221KC	221	$220 \pm 10\%$	1.57	0.35

※1: Inductance measuring frequency: $10\mu\text{H} \sim 82\mu\text{H}$, at 2.52MHz.
 $100\mu\text{H} \sim 220\mu\text{H}$, at 1 kHz.

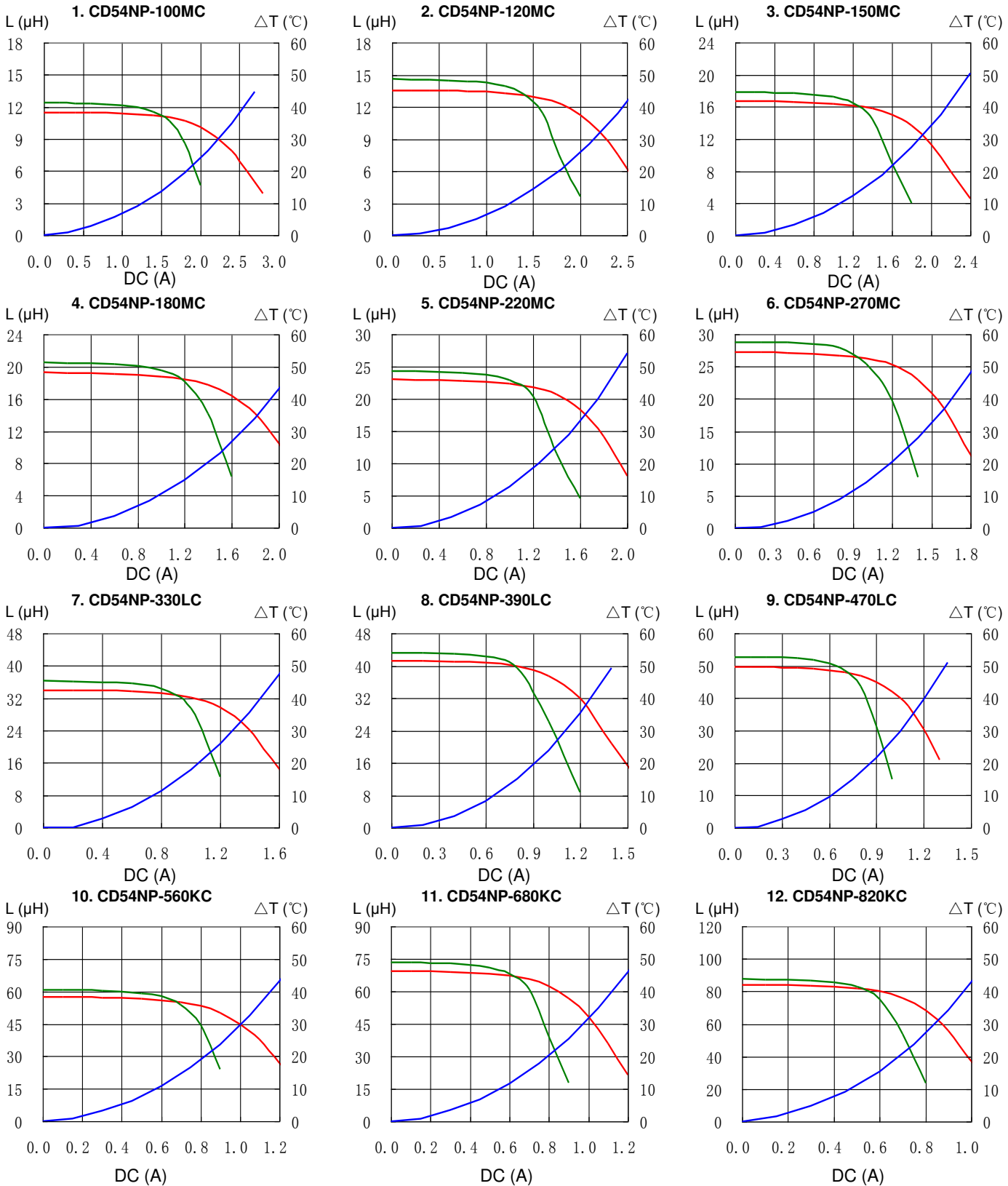
※2: Rated current: The DC current at which the inductance decreases to 90 % of its initial value or when $\Delta t=40^\circ\text{C}$, whichever is lower ($T_a=20^\circ\text{C}$).

SMD Power Inductor CD54



Saturation Current & Temperature Rise Graph

— L (20°C) — L (105°C) — ΔT

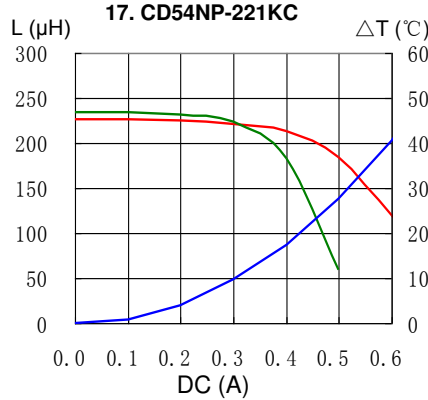
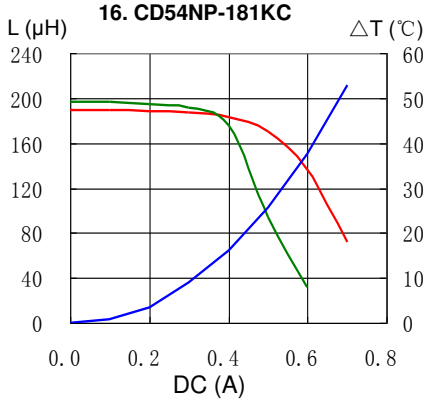
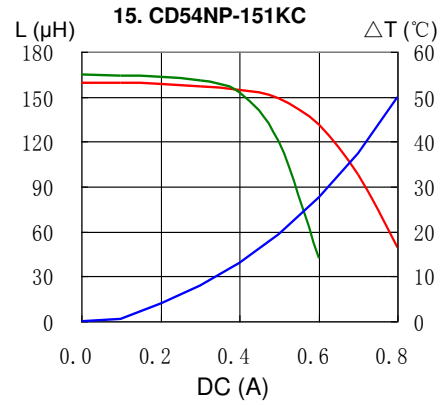
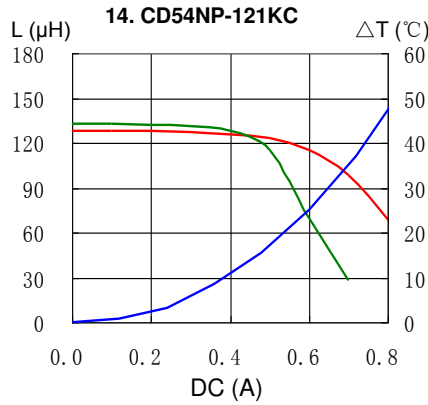
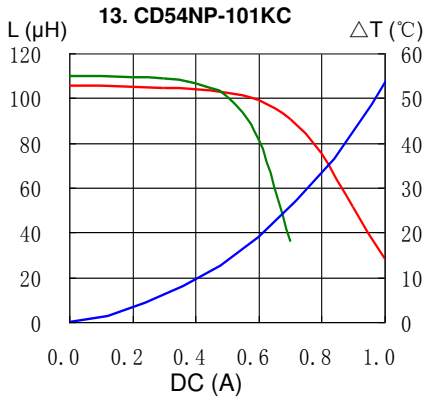


SMD Power Inductor CD54



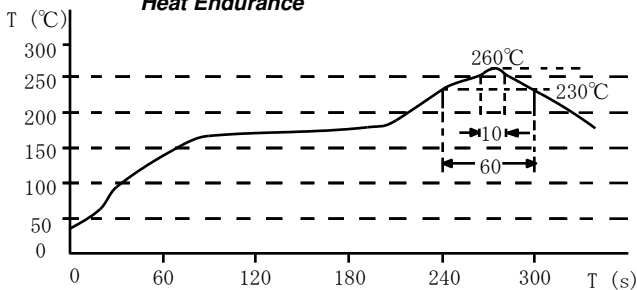
Saturation Current & Temperature Rise Graph

— L (20°C) — L (105°C) — ΔT

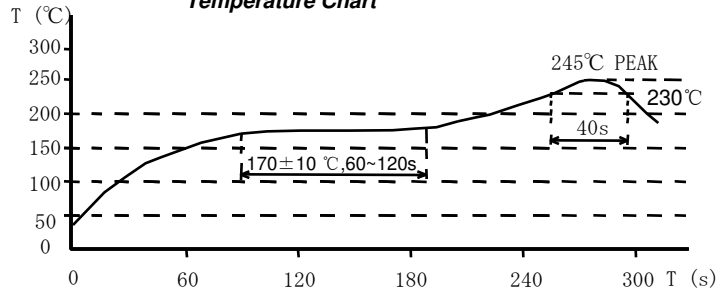


Solder Reflow Condition

Heat Endurance



Temperature Chart



Please refer to the sales offices on our website - <http://www.sumida.com>

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