



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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SMD Power Inductor CDRH125/LD



Description

- Ferrite drum core construction.
- Magnetically shielded.
- L × W × H: 12.3 × 12.3 × 6.0 mm Max.
- Product weight: 2.9g(Ref.)
- Moisture Sensitivity Level: 1
- RoHS compliance.

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.

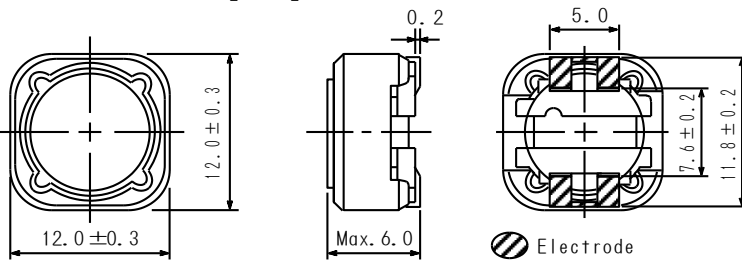
Packaging

- Carrier tape and reel packaging
- 13" diameter reel
- 500pcs per reel

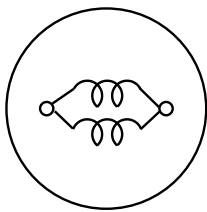
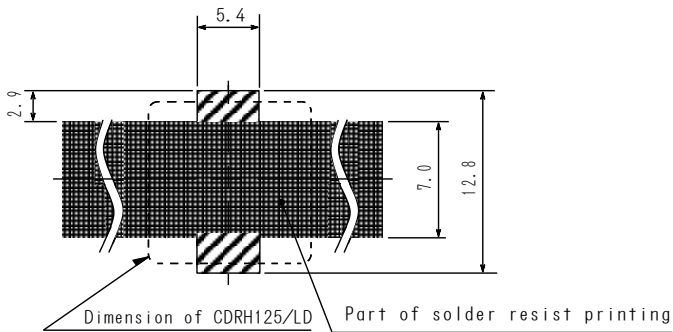
Applications

- Ideally used in Notebook PC, LCD TV, DVD, Game machine, STB, Projector etc. as converter inductors.

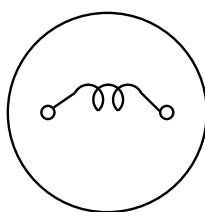
Dimension - [mm]



Land pattern and Schematics - [mm]



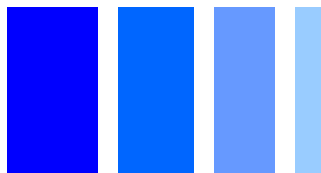
7.5µH ~ 56µH



68µH ~ 1000µH

SMD Power Inductor

CDRH125/LD



Electrical Characteristics

Part No.	Stamp	Inductance (μH) [within] ※1	D.C.R (Ω) [Max.] (Typ.)	Rated Current (A) ※2
CDRH125/LDNP-7R5NC	7R5	$7.5 \pm 30\%$	19.0m(14.7m)	5.60
CDRH125/LDNP-100NC	100	$10 \pm 30\%$	29.0m(22.5m)	4.60
CDRH125/LDNP-120MC	120	$12 \pm 20\%$	32.0m(24.6m)	4.20
CDRH125/LDNP-150MC	150	$15 \pm 20\%$	35.0m(27.1m)	4.00
CDRH125/LDNP-180MC	180	$18 \pm 20\%$	41.0m(31.8m)	3.56
CDRH125/LDNP-220MC	220	$22 \pm 20\%$	44.0m(33.9m)	3.28
CDRH125/LDNP-270MC	270	$27 \pm 20\%$	52.0m(41.5m)	3.00
CDRH125/LDNP-330MC	330	$33 \pm 20\%$	65.0m(50.0m)	2.60
CDRH125/LDNP-390MC	390	$39 \pm 20\%$	75.0m(60.0m)	2.40
CDRH125/LDNP-470MC	470	$47 \pm 20\%$	95.0m(72.5m)	2.30
CDRH125/LDNP-560MC	560	$56 \pm 20\%$	125m(95.4m)	2.00
CDRH125/LDNP-680MC	680	$68 \pm 20\%$	0.140(0.11)	1.85
CDRH125/LDNP-820MC	820	$82 \pm 20\%$	0.157(0.121)	1.70
CDRH125/LDNP-101MC	101	$100 \pm 20\%$	0.187(0.144)	1.60
CDRH125/LDNP-121MC	121	$120 \pm 20\%$	0.228(0.175)	1.37
CDRH125/LDNP-151MC	151	$150 \pm 20\%$	0.280(0.218)	1.26
CDRH125/LDNP-181MC	181	$180 \pm 20\%$	0.335(0.259)	1.14
CDRH125/LDNP-221MC	221	$220 \pm 20\%$	0.395(0.303)	1.08
CDRH125/LDNP-271MC	271	$270 \pm 20\%$	0.520(0.403)	0.94
CDRH125/LDNP-331MC	331	$330 \pm 20\%$	0.710(0.547)	0.85
CDRH125/LDNP-391MC	391	$390 \pm 20\%$	0.800(0.614)	0.77
CDRH125/LDNP-471MC	471	$470 \pm 20\%$	0.920(0.711)	0.72
CDRH125/LDNP-561MC	561	$560 \pm 20\%$	1.20(0.956)	0.67
CDRH125/LDNP-681MC	681	$680 \pm 20\%$	1.35(1.08)	0.57
CDRH125/LDNP-821MC	821	$820 \pm 20\%$	1.40(1.17)	0.51
CDRH125/LDNP-102MC	102	$1000 \pm 20\%$	1.95(1.62)	0.46

※1. Inductance measuring condition: Inductance $\leq 10\mu\text{H}$ at 7.96MHz; Inductance $> 10\mu\text{H}$ at 100kHz

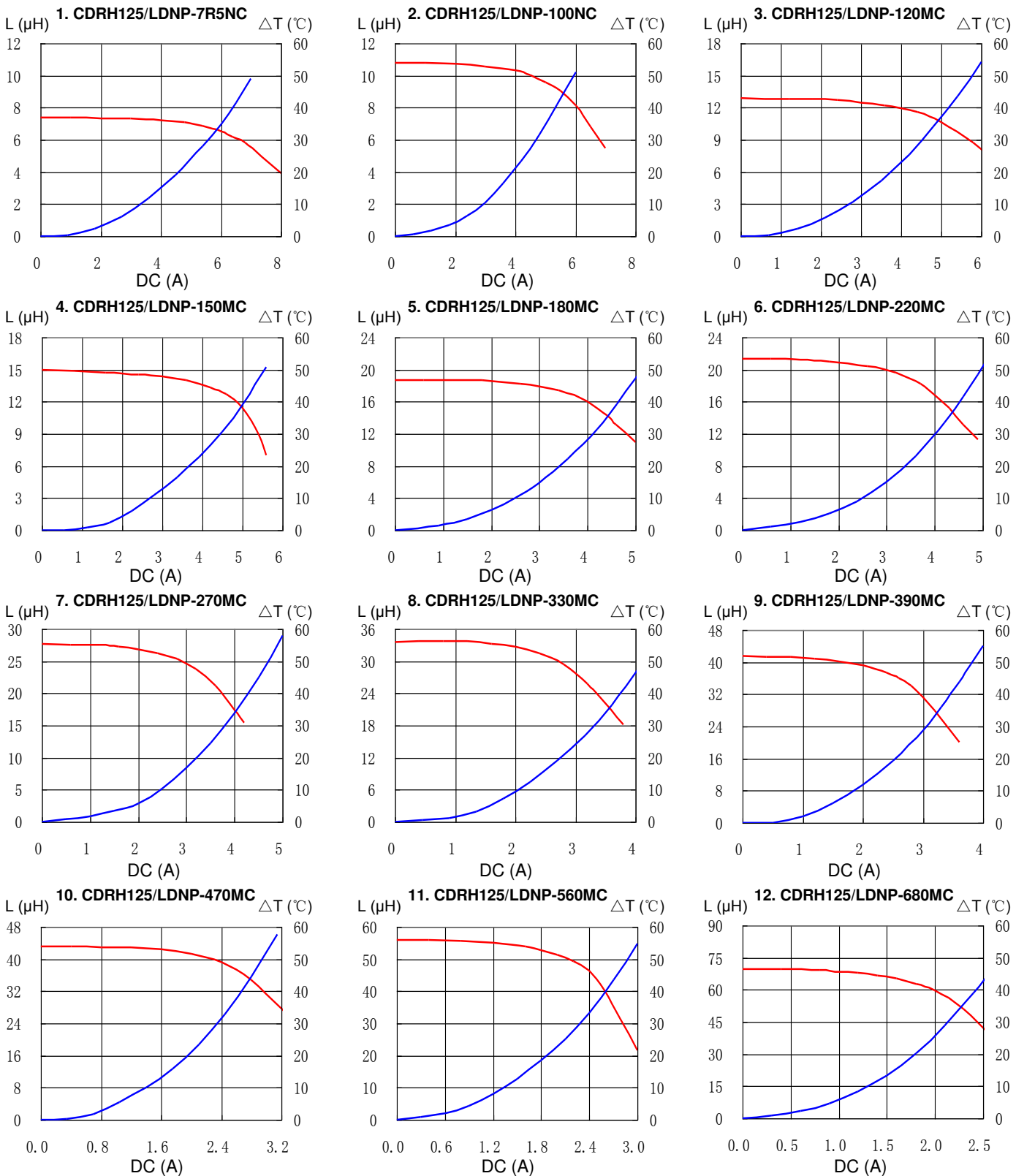
※2. Rated current: The DC current at which the inductance decreases to 75% of its nominal value or when $\Delta t = 40^\circ\text{C}$, whichever is lower.

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Saturation Current & Temperature Rise Graph

— L (20°C) — ΔT

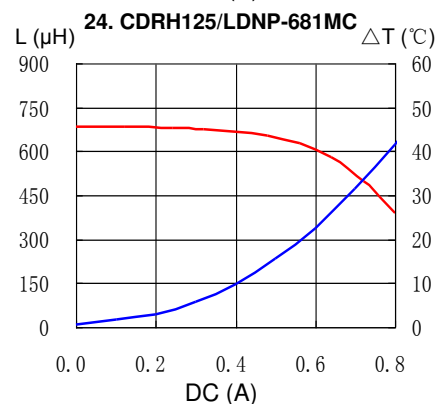
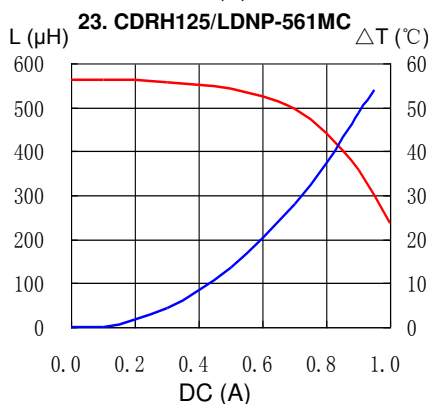
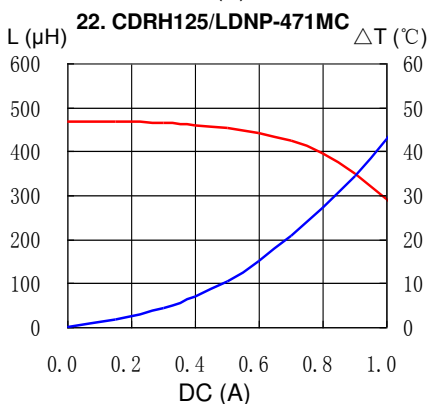
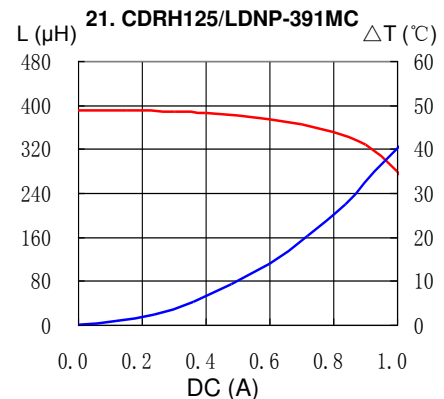
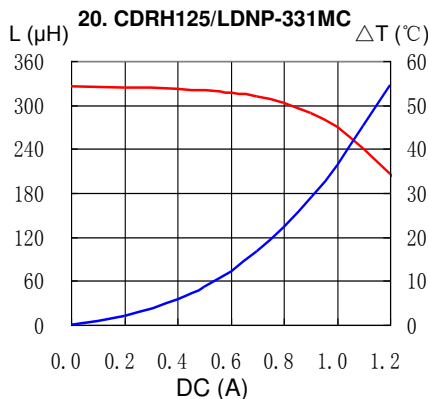
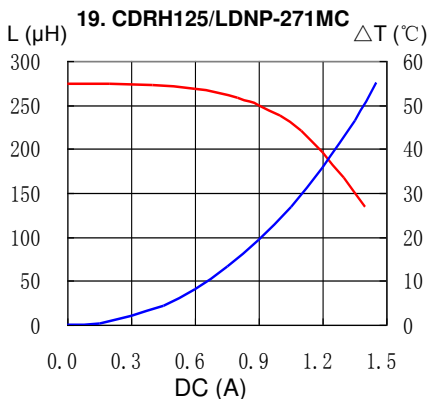
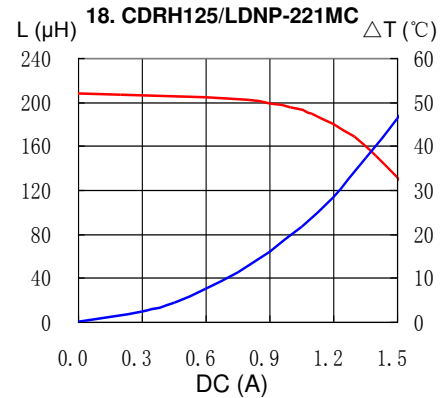
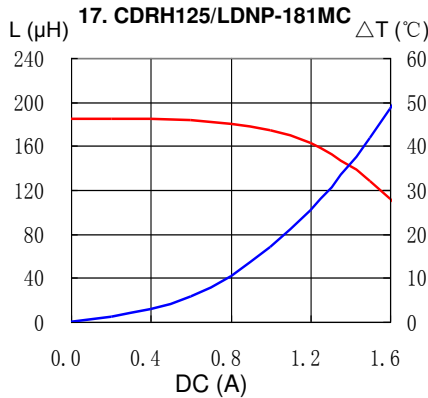
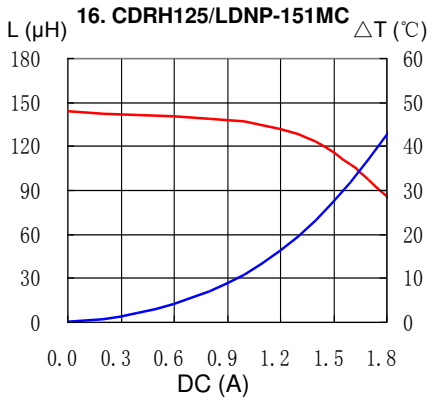
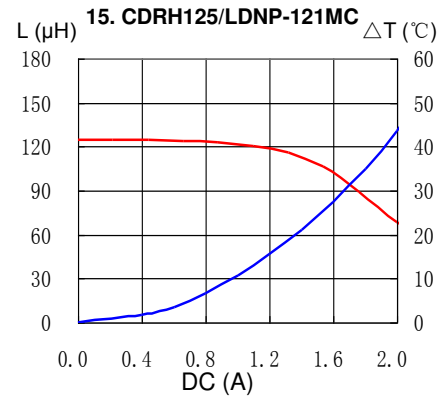
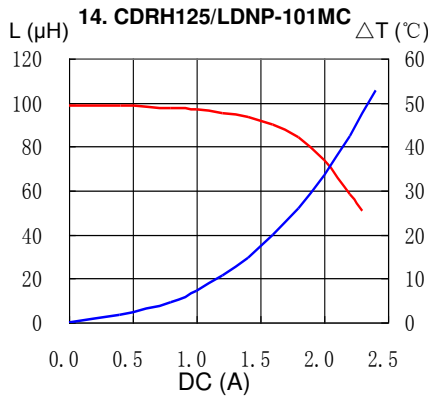
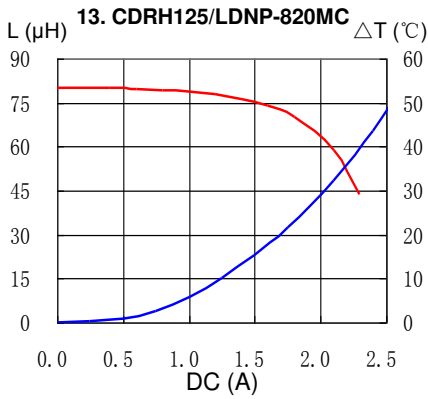


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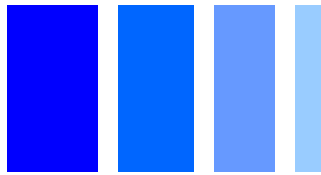


Saturation Current & Temperature Rise Graph

— L (20°C) — ΔT

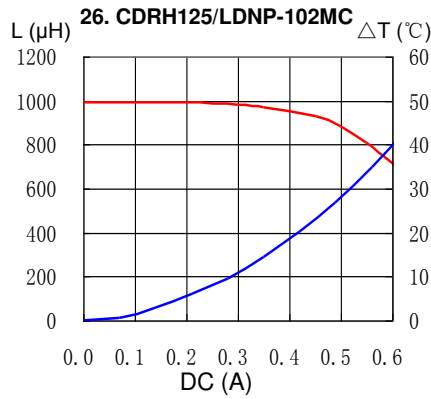
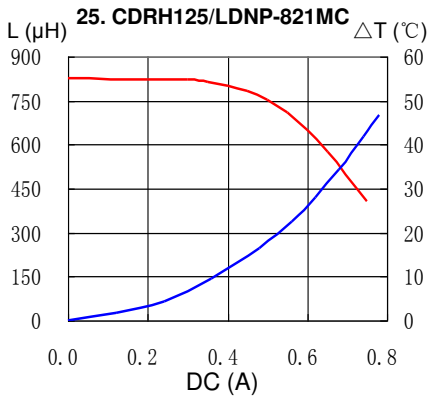


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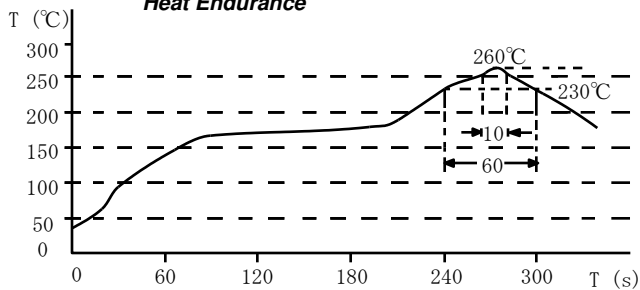
Saturation Current & Temperature Rise Graph

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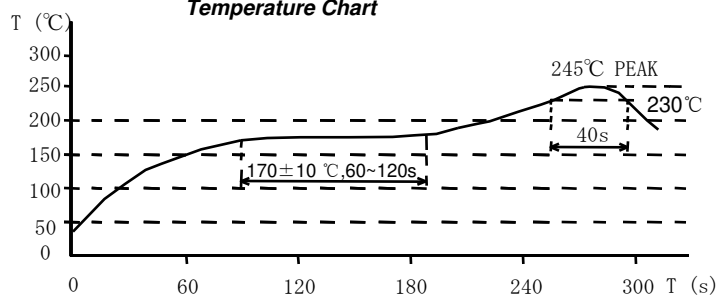


Solder Reflow Condition

Heat Endurance



Temperature Chart



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