



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 CDRH5D28R



Description

- Ferrite drum core construction.
- Magnetically shielded.
- L × W × H: 6.3 × 6.2 × 3.0 mm Max.
- Product weight: 0.4g(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.

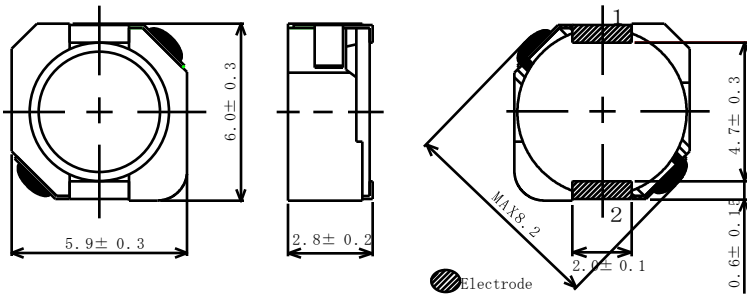
Packaging

- Carrier tape and reel packaging
- 13.0" diameter reel
- 2000pcs per reel

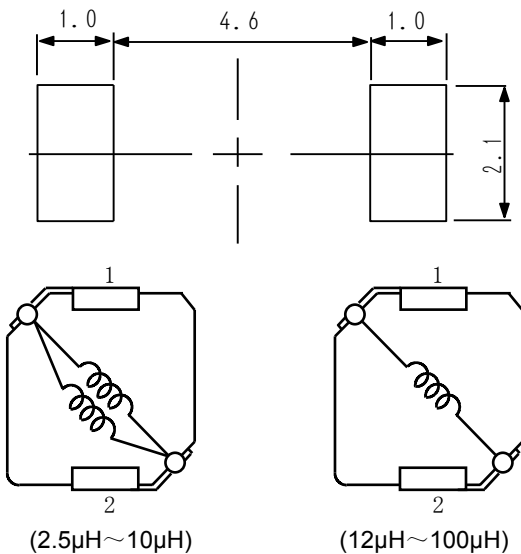
Applications

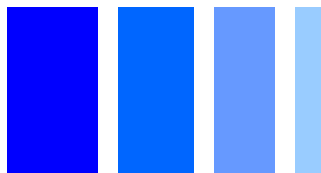
- Ideally used in Notebook PC, HDD, DSC/DVC, LCD TV, Game machine etc. as converter inductors.

Dimension - [mm]



Land pattern and Schematics - [mm]





Electrical Characteristics

Part Name	Stamp	Inductance (μH) [within] ※1	D.C.R. (m Ω) [Max.] (Typ.) (at 20°C)	Rated Current (A) ※2
CDRH5D28RNP-2R5NC	2R5	2.5±30%	17.6(13)	2.60
CDRH5D28RNP-3R3NC	3R3	3.3±30%	20.3(15)	2.30
CDRH5D28RNP-4R0NC	4R0	4.0±30%	27.0(20)	2.10
CDRH5D28RNP-5R0NC	5R0	5.0±30%	31.1(23)	1.85
CDRH5D28RNP-6R0NC	6R0	6.0±30%	41.9(31)	1.70
CDRH5D28RNP-8R0NC	8R0	8.0±30%	49.9(37)	1.50
CDRH5D28RNP-100NC	100	10±30%	54.0(40)	1.30
CDRH5D28RNP-120NC	120	12±30%	71.6(53)	1.20
CDRH5D28RNP-150NC	150	15±30%	82.4(61)	1.10
CDRH5D28RNP-180NC	180	18±30%	101.5(75)	1.05
CDRH5D28RNP-220NC	220	22±30%	119.0(88)	0.95
CDRH5D28RNP-270NC	270	27±30%	146.0(108)	0.85
CDRH5D28RNP-330NC	330	33±30%	182.5(135)	0.76
CDRH5D28RNP-390NC	390	39±30%	209.5(155)	0.68
CDRH5D28RNP-470NC	470	47±30%	229.5(170)	0.60
CDRH5D28RNP-560NC	560	56±30%	305.0(226)	0.55
CDRH5D28RNP-680NC	680	68±30%	351.0(260)	0.48
CDRH5D28RNP-820NC	820	82±30%	418.5(310)	0.45
CDRH5D28RNP-101NC	101	100±30%	520.0(385)	0.40

※1. Inductance measuring condition: at 100kHz.

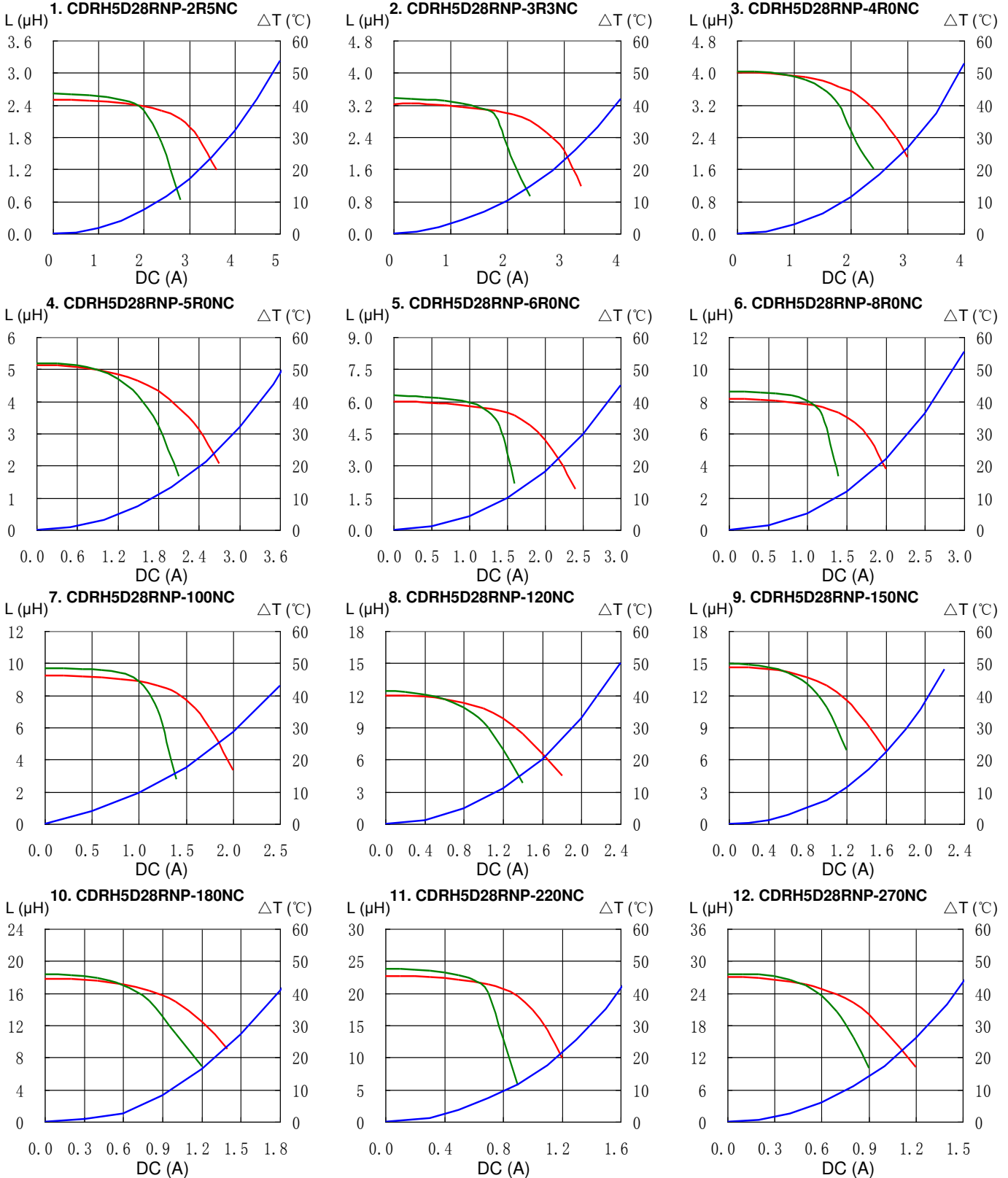
※2. Rated current: The DC current at which the inductance decreases to 65% of it's nominal value or when $\Delta t=30^\circ\text{C}$, whichever is lower ($T_a=20^\circ\text{C}$).

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Saturation Current & Temperature Rise Graph

— L (20°C) — L (105°C) — ΔT

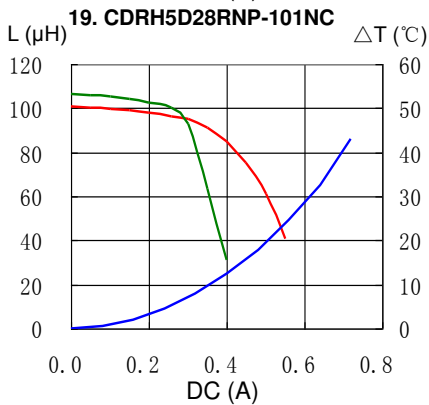
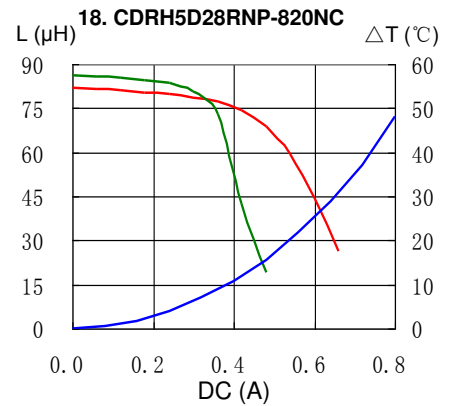
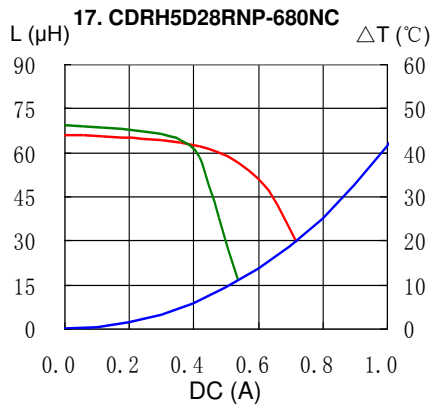
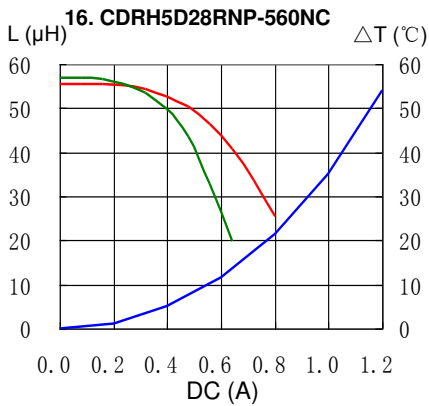
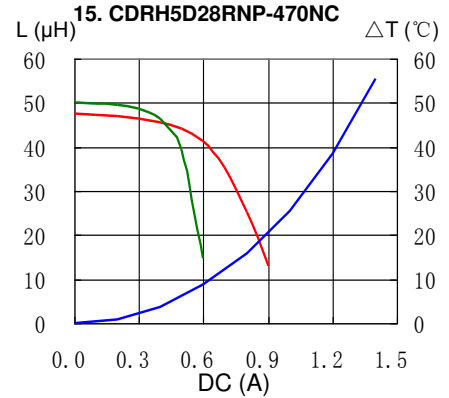
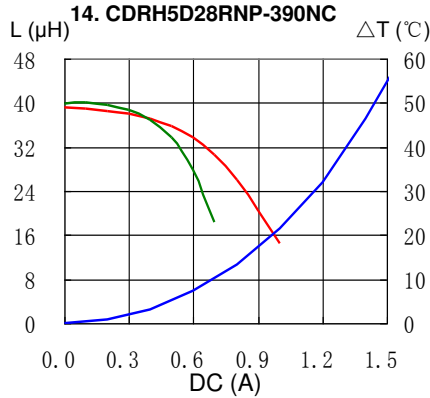
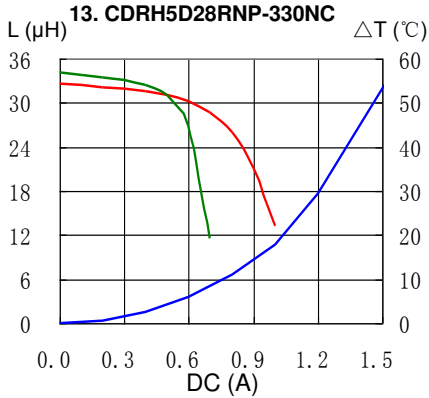


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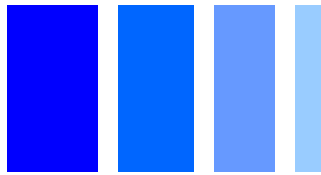


Saturation Current & Temperature Rise Graph

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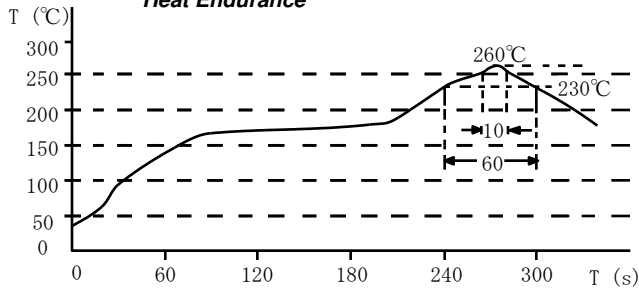


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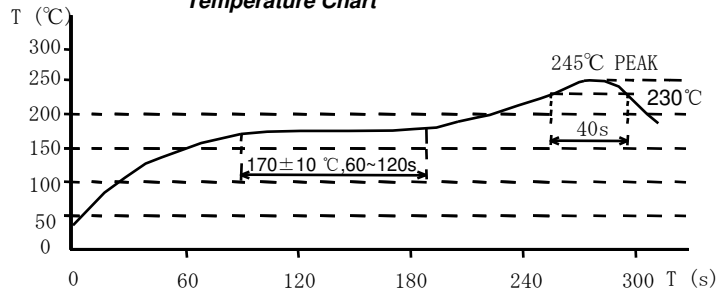


Solder Reflow Condition

Heat Endurance



Temperature Chart



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