



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!



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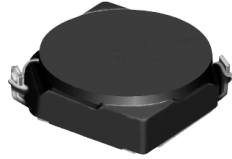
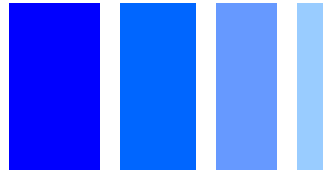
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SMD Power Inductor CDRH5D18



Description

- Ferrite drum core construction.
- Magnetically shielded.
- L × W × H: 6.0 × 6.0 × 2.0 mm Max.
- Product weight: 220mg (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.

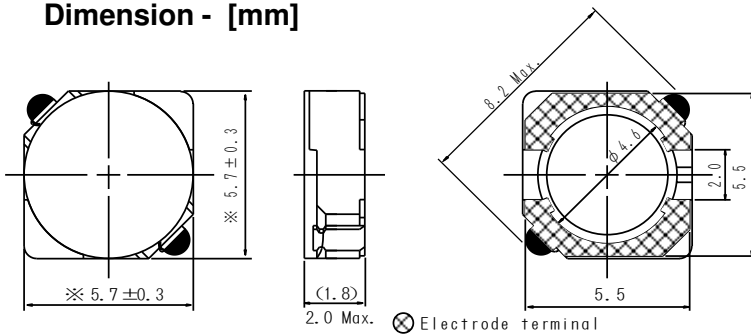
Packaging

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

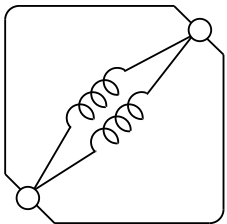
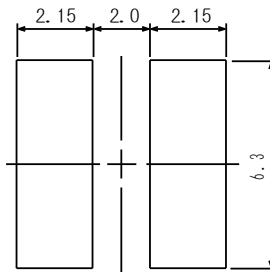
Applications

- Ideally used in Mobile phone, MP3, PDA, HDD, DSC/DVC, Game machine, etc as DC-DC converter inductors.

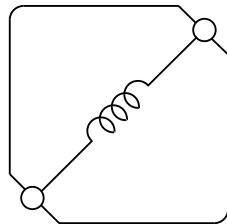
Dimension - [mm]



Land pattern and Schematics - [mm]



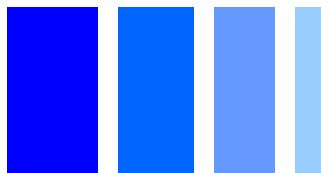
2.2µH



3.3µH ~ 100µH

SMD Power Inductor

CDRH5D18



Electrical Characteristics

PART NO.	STAMP	INDUCTANCE (μH) [WITHIN] ※1	D.C.R. (Ω) [MAX.] (TYP.) (at 20°C)※2	RATED CURRENT (A) ※2
CDRH5D18NP-2R2NC	2R2	2.2 $\mu\text{H} \pm 30\%$	37m (27m)	2.4
CDRH5D18NP-3R3NC	3R3	3.3 $\mu\text{H} \pm 30\%$	47m (35m)	2.0
CDRH5D18NP-4R1NC	4R1	4.1 $\mu\text{H} \pm 30\%$	57m (42m)	1.95
CDRH5D18NP-5R4NC	5R4	5.4 $\mu\text{H} \pm 30\%$	76m (56m)	1.60
CDRH5D18NP-6R2NC	6R2	6.2 $\mu\text{H} \pm 30\%$	96m (71m)	1.40
CDRH5D18NP-8R9NC	8R9	8.9 $\mu\text{H} \pm 30\%$	116m (86m)	1.25
CDRH5D18NP-100NC	100	10 $\mu\text{H} \pm 30\%$	124m (92m)	1.20
CDRH5D18NP-120NC	120	12 $\mu\text{H} \pm 30\%$	153m (113m)	1.10
CDRH5D18NP-150NC	150	15 $\mu\text{H} \pm 30\%$	196m (145m)	0.97
CDRH5D18NP-180NC	180	18 $\mu\text{H} \pm 30\%$	210m (155m)	0.85
CDRH5D18NP-220NC	220	22 $\mu\text{H} \pm 30\%$	290m (215m)	0.80
CDRH5D18NP-270NC	270	27 $\mu\text{H} \pm 30\%$	330m (245m)	0.75
CDRH5D18NP-330NC	330	33 $\mu\text{H} \pm 30\%$	385m (285m)	0.65
CDRH5D18NP-390NC	390	39 $\mu\text{H} \pm 30\%$	520m (385m)	0.57
CDRH5D18NP-470NC	470	47 $\mu\text{H} \pm 30\%$	595m (440m)	0.54
CDRH5D18NP-560NC	560	56 $\mu\text{H} \pm 30\%$	665m (493m)	0.50
CDRH5D18NP-680NC	680	68 $\mu\text{H} \pm 30\%$	840m (622m)	0.43
CDRH5D18NP-820NC	820	82 $\mu\text{H} \pm 30\%$	978m (725m)	0.41
CDRH5D18NP-101NC	101	100 $\mu\text{H} \pm 30\%$	1.2 (895m)	0.36

※1. Inductance measuring condition: at 10kHz.

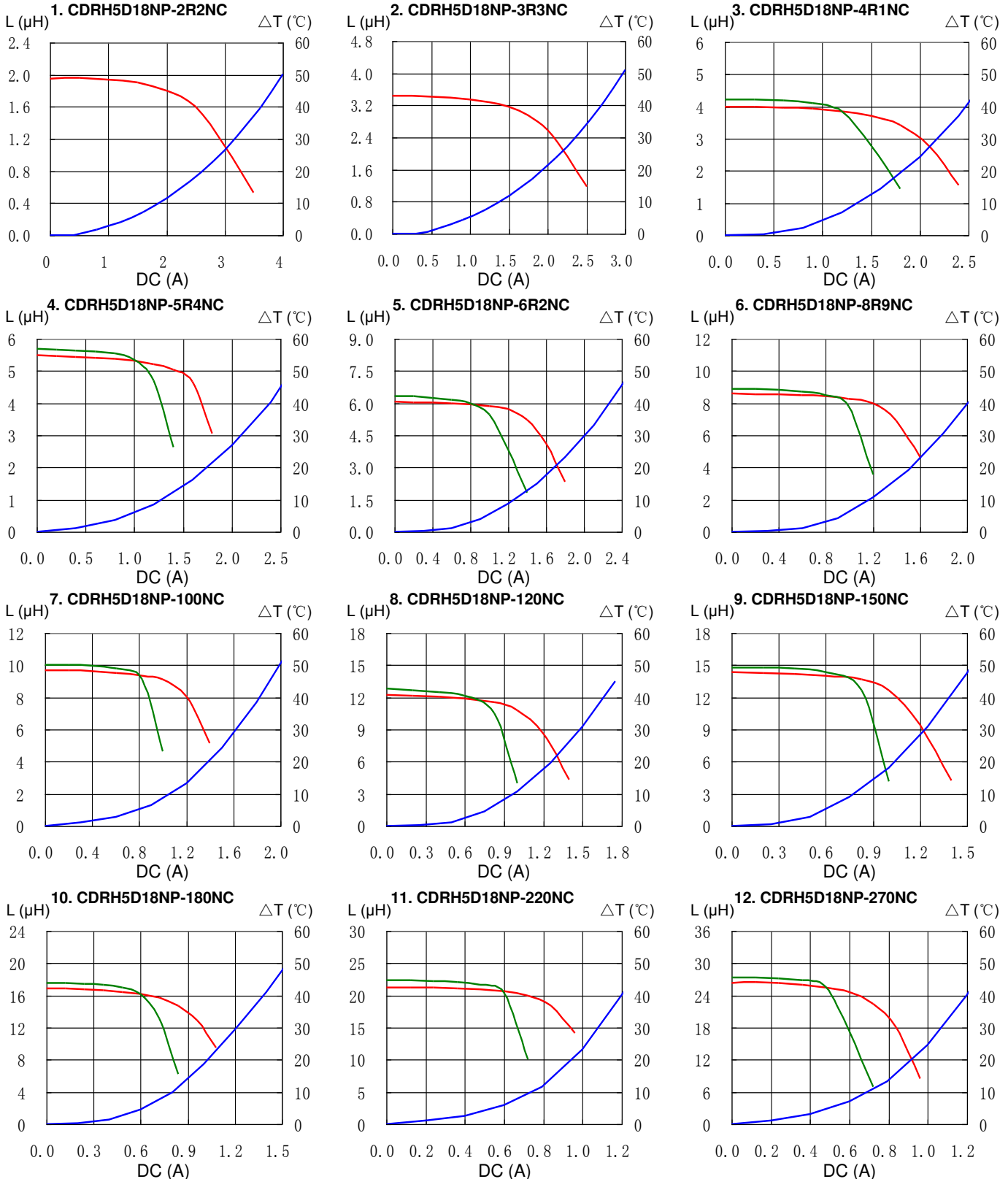
※2. Rated current: The DC current at which the inductance decreases to 65% of it's nominal value or when $\Delta t=30^\circ\text{C}$, whichever is lower ($T_a=20^\circ\text{C}$).

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Saturation Current & Temperature Rise Graph

— L (20°C) — L (105°C) — ΔT

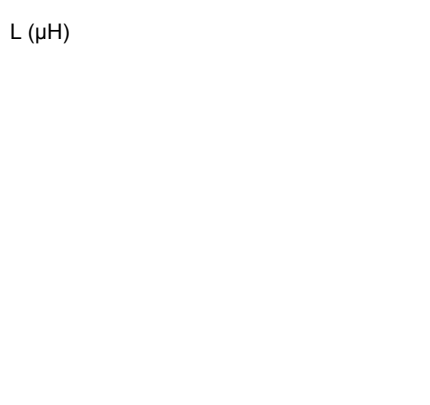
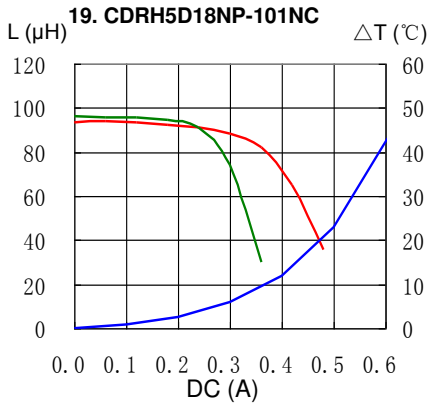
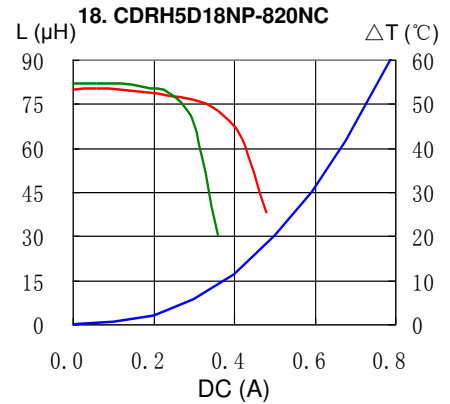
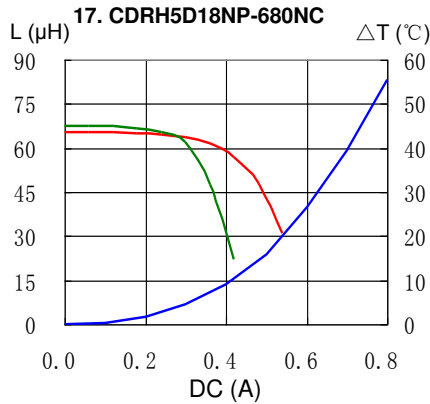
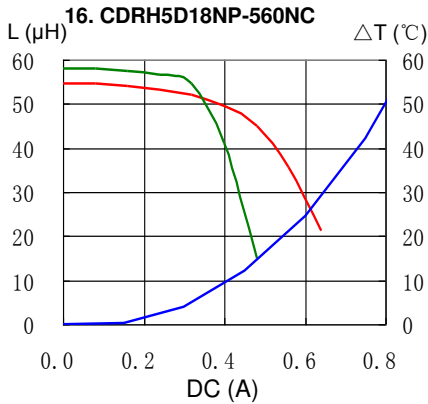
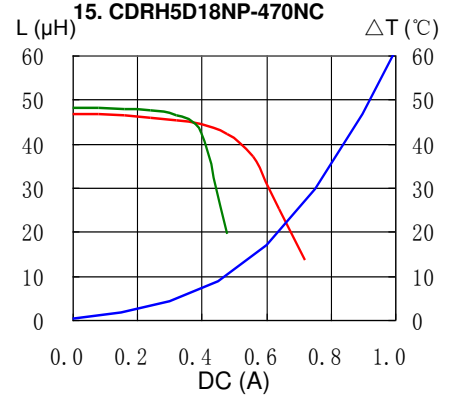
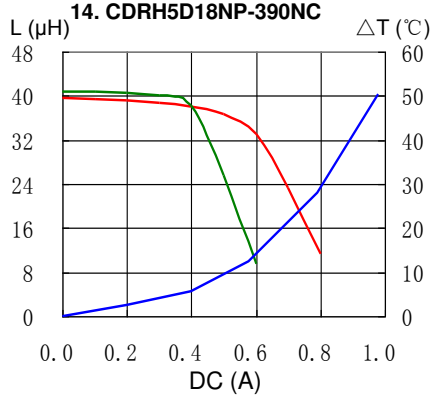
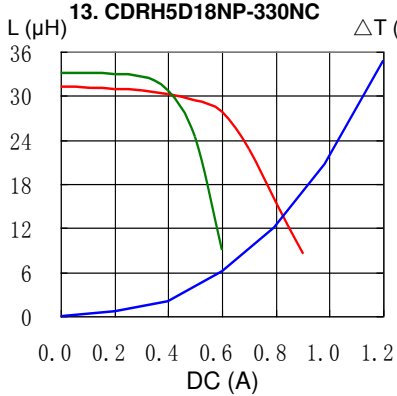


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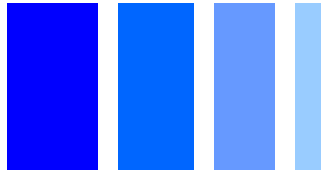


Saturation Current & Temperature Rise Graph

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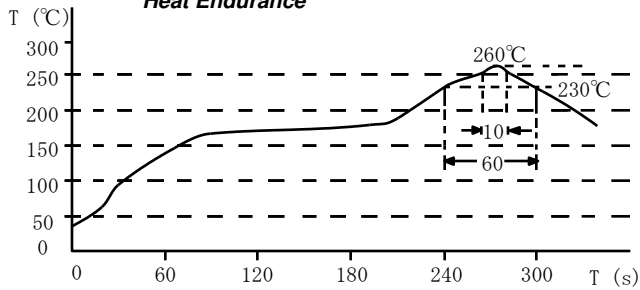


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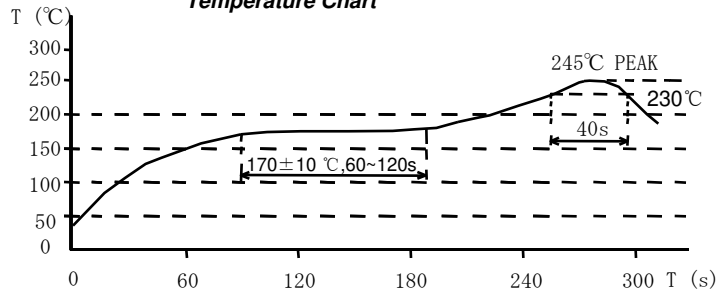


Solder Reflow Condition

Heat Endurance



Temperature Chart



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