



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 CDRH4D18



Description

- Ferrite drum core construction.
- Magnetically shielded.
- L × W × H: 5.0 × 5.0 × 2.0 mm Max.
- Product weight: 137mg(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.

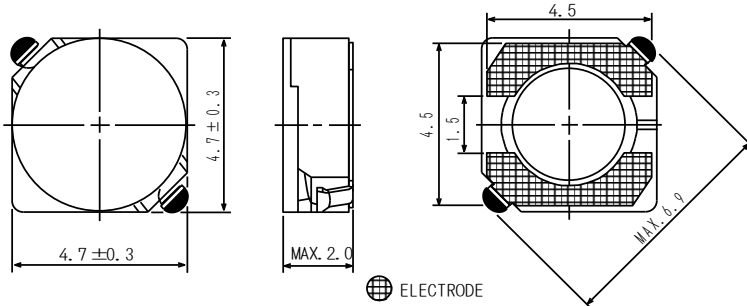
Packaging

- Carrier tape and reel packaging
- 7.0" diameter reel
- 1000pcs per reel

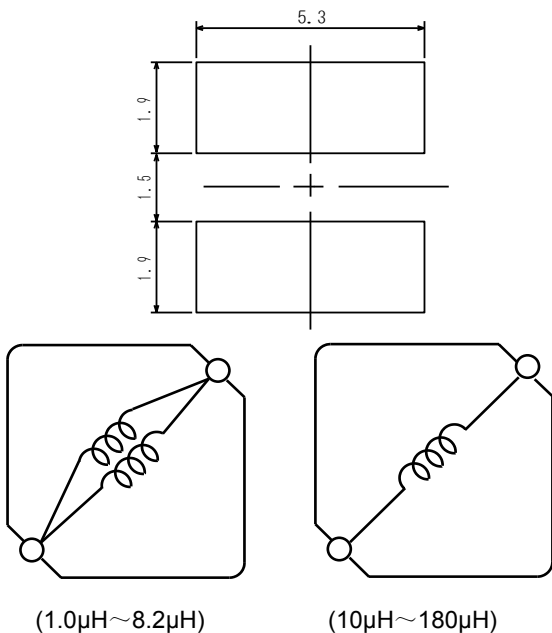
Applications

- Ideally used in Mobile phone, PDA, MP3, HDD, DSC/DVC, Note book PC, etc as DC-DC converter inductors.

Dimension - [mm]

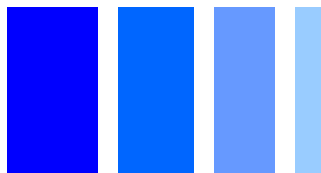


Land pattern and Schematics - [mm]



SMD Power Inductor

CDRH4D18



Electrical Characteristics

Part No.	Stamp	Inductance (μH) [within] ※1	D.C.R.(Ω) Max. (Typ.) (at 20°C)	Rated Current (A) ※2
CDRH4D18NP-1R0NC	1R0	1.0 \pm 30%	45m(35m)	1.72
CDRH4D18NP-2R2NC	2R2	2.2 \pm 30%	75m(58m)	1.32
CDRH4D18NP-2R7NC	2R7	2.7 \pm 30%	105m(80m)	1.28
CDRH4D18NP-3R3NC	3R3	3.3 \pm 30%	110m(85m)	1.04
CDRH4D18NP-3R9NC	3R9	3.9 \pm 30%	155m(120m)	0.88
CDRH4D18NP-4R7NC	4R7	4.7 \pm 30%	162m(125m)	0.84
CDRH4D18NP-5R6NC	5R6	5.6 \pm 30%	170m(130m)	0.80
CDRH4D18NP-6R8NC	6R8	6.8 \pm 30%	200m(155m)	0.76
CDRH4D18NP-8R2NC	8R2	8.2 \pm 30%	245m(190m)	0.68
CDRH4D18NP-100NC	100	10 \pm 30%	200m(148m)	0.61
CDRH4D18NP-120NC	120	12 \pm 30%	210m(156m)	0.56
CDRH4D18NP-150NC	150	15 \pm 30%	240m(178m)	0.50
CDRH4D18NP-180NC	180	18 \pm 30%	338m(250m)	0.48
CDRH4D18NP-220NC	220	22 \pm 30%	397m(294m)	0.41
CDRH4D18NP-270NC	270	27 \pm 30%	441m(327m)	0.35
CDRH4D18NP-330NC	330	33 \pm 30%	694m(514m)	0.32
CDRH4D18NP-390NC	390	39 \pm 30%	709m(525m)	0.30
CDRH4D18NP-470NC	470	47 \pm 30%	922m(683m)	0.28
CDRH4D18NP-560NC	560	56 \pm 30%	1.08(800m)	0.26
CDRH4D18NP-680NC	680	68 \pm 30%	1.30(1.00)	0.24
CDRH4D18NP-820NC	820	82 \pm 30%	1.56(1.20)	0.22
CDRH4D18NP-101NC	101	100 \pm 30%	1.73(1.33)	0.20
CDRH4D18NP-121NC	121	120 \pm 30%	2.39(1.84)	0.18
CDRH4D18NP-151NC	151	150 \pm 30%	2.67(2.05)	0.15
CDRH4D18NP-181NC	181	180 \pm 30%	4.00(3.05)	0.14

※1. Inductance measuring condition: 1.0 μH ~ 8.2 μH at 7.96 MHz
10 μH ~ 180 μH at 100 kHz

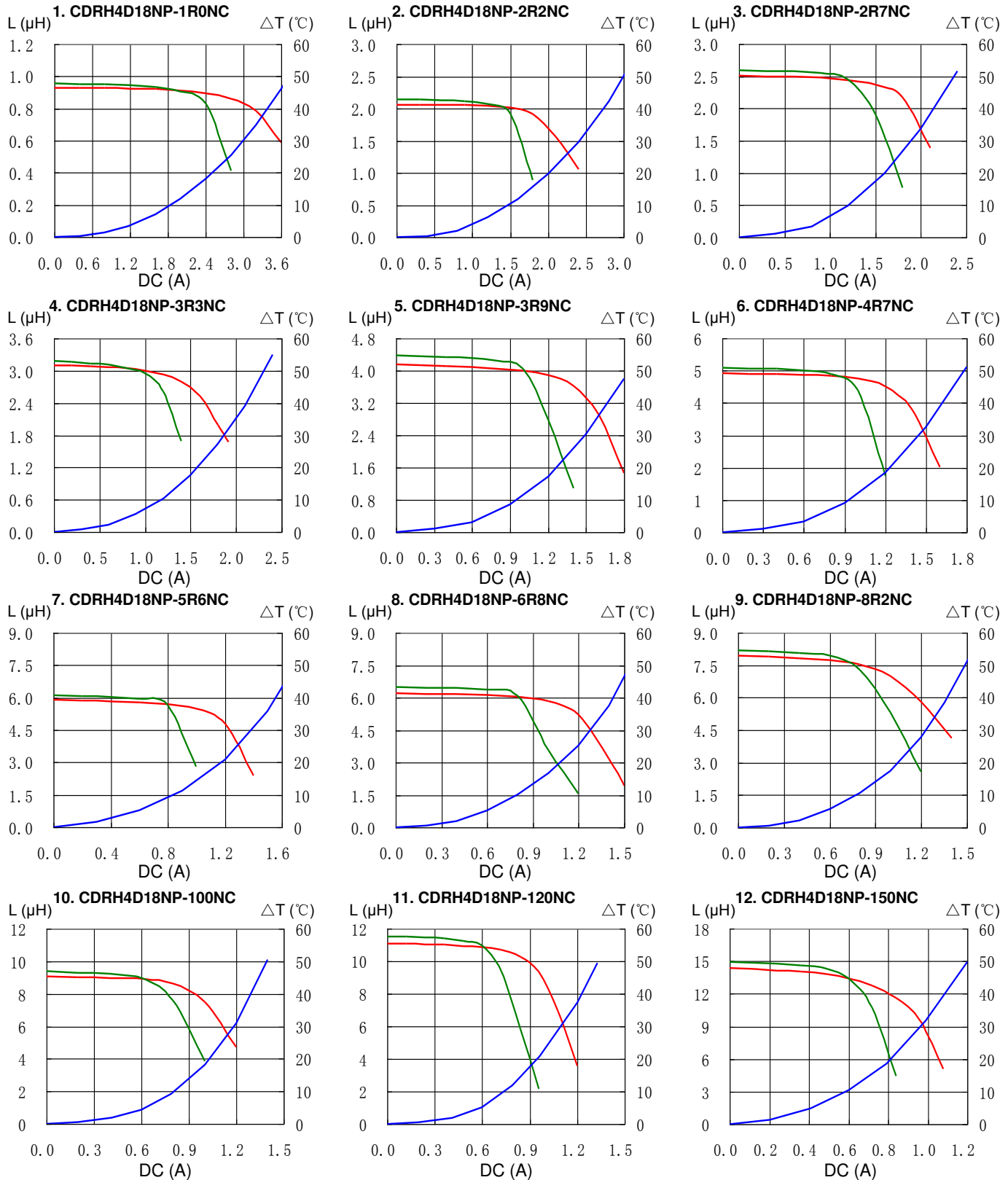
※2. Rated current: The DC current at which the inductance decreases to 65% of its nominal value or when $\Delta t=40^\circ\text{C}$, whichever is lower ($T_a=20^\circ\text{C}$).

SMD Power Inductor CDRH4D18



Saturation Current & Temperature Rise Graph

— L (20°C) — L (100°C) — ΔT

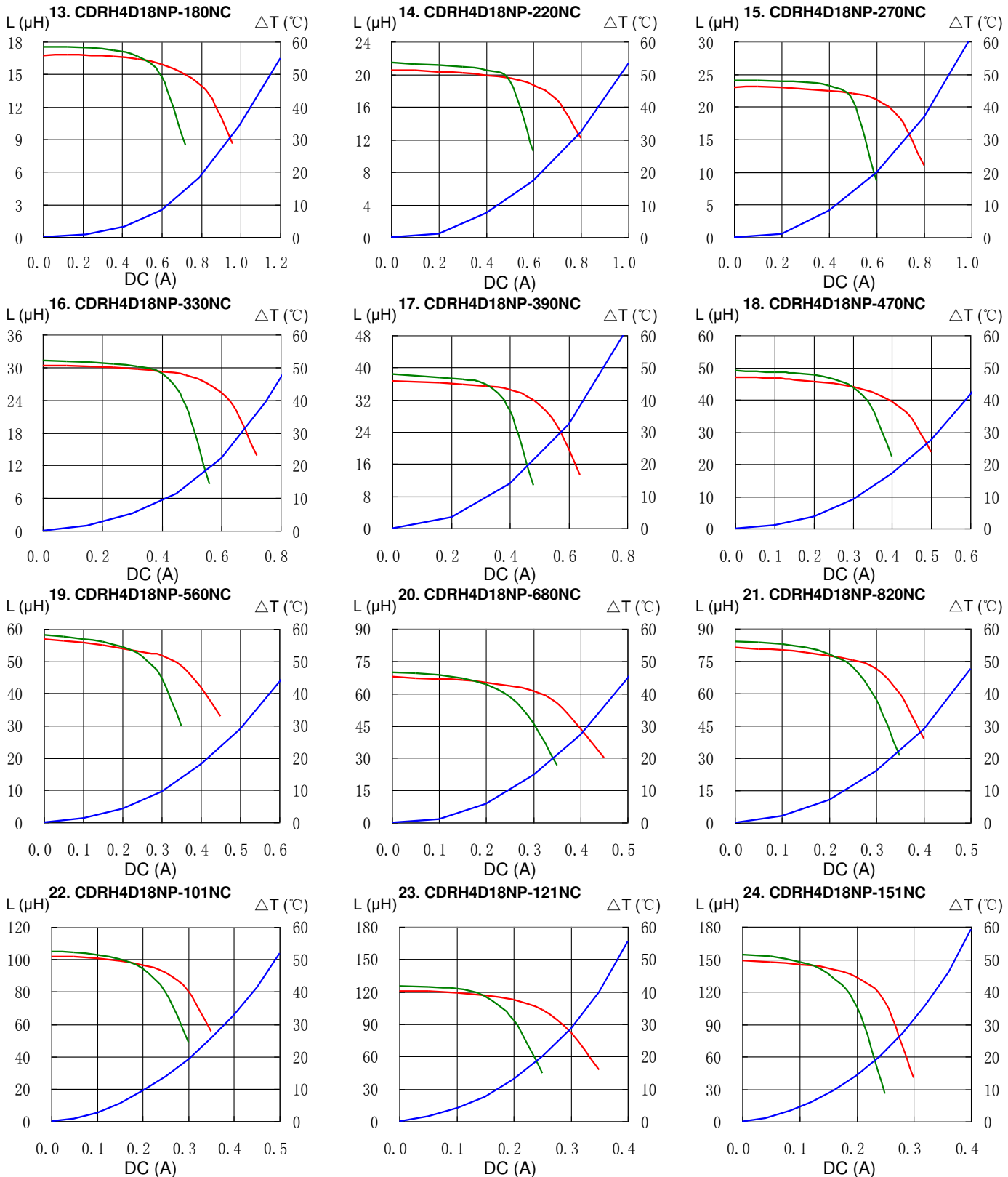


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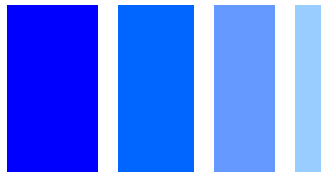


Saturation Current & Temperature Rise Graph

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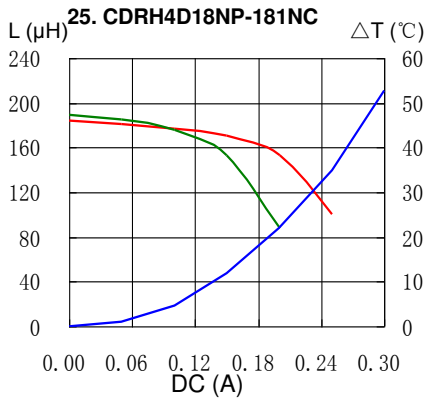


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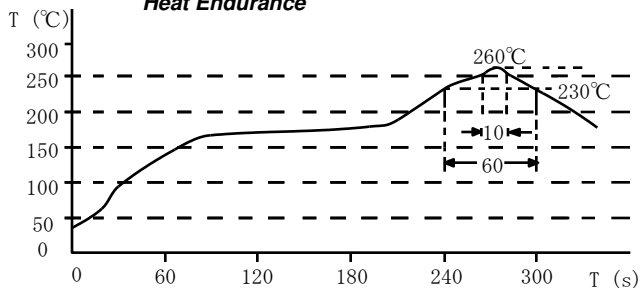
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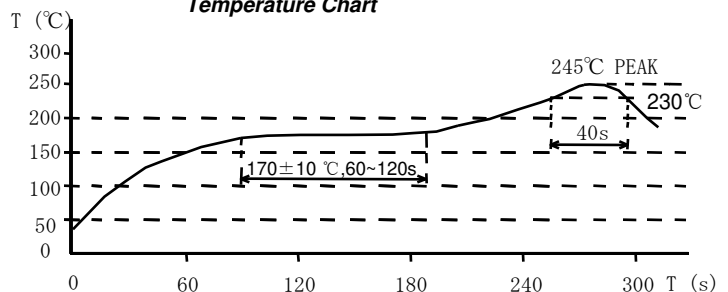


Solder Reflow Condition

Heat Endurance



Temperature Chart



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