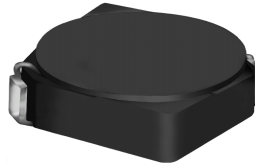


SMD Power Inductor CDRH4D18



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.

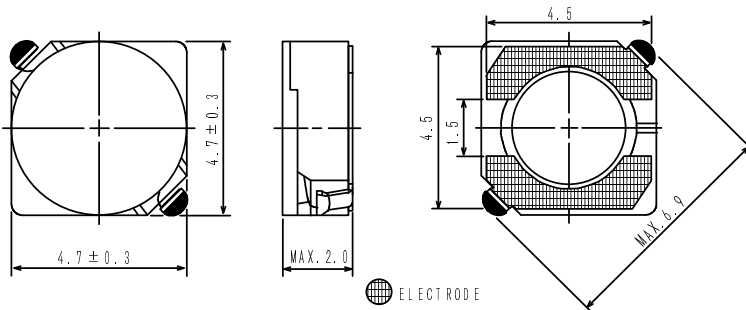
Packaging

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

Applications

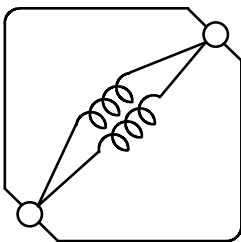
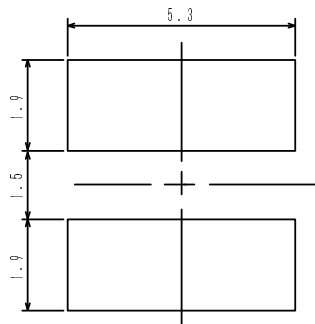
- Ideally used in Mobile phone, PDA, MP3, HDD, DSC/DVC, Note book PC, etc as DC-DC converter inductors.

Dimension - [mm]

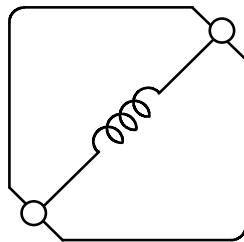


ELECTRODE

Land pattern and Schematics - [mm]

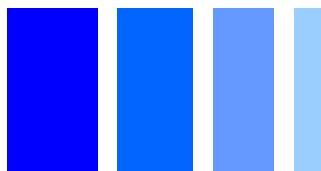


($1.0 \mu\text{H} \sim 8.2 \mu\text{H}$)



($10 \mu\text{H} \sim 180 \mu\text{H}$)

SMD Power Inductor CDRH4D18



Electrical Characteristics

Part No.	Stamp	Inductance (μ H) [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 μ H \sim 8.2 μ H at 7.96 MHz
10 μ H \sim 180 μ H at 100 kHz

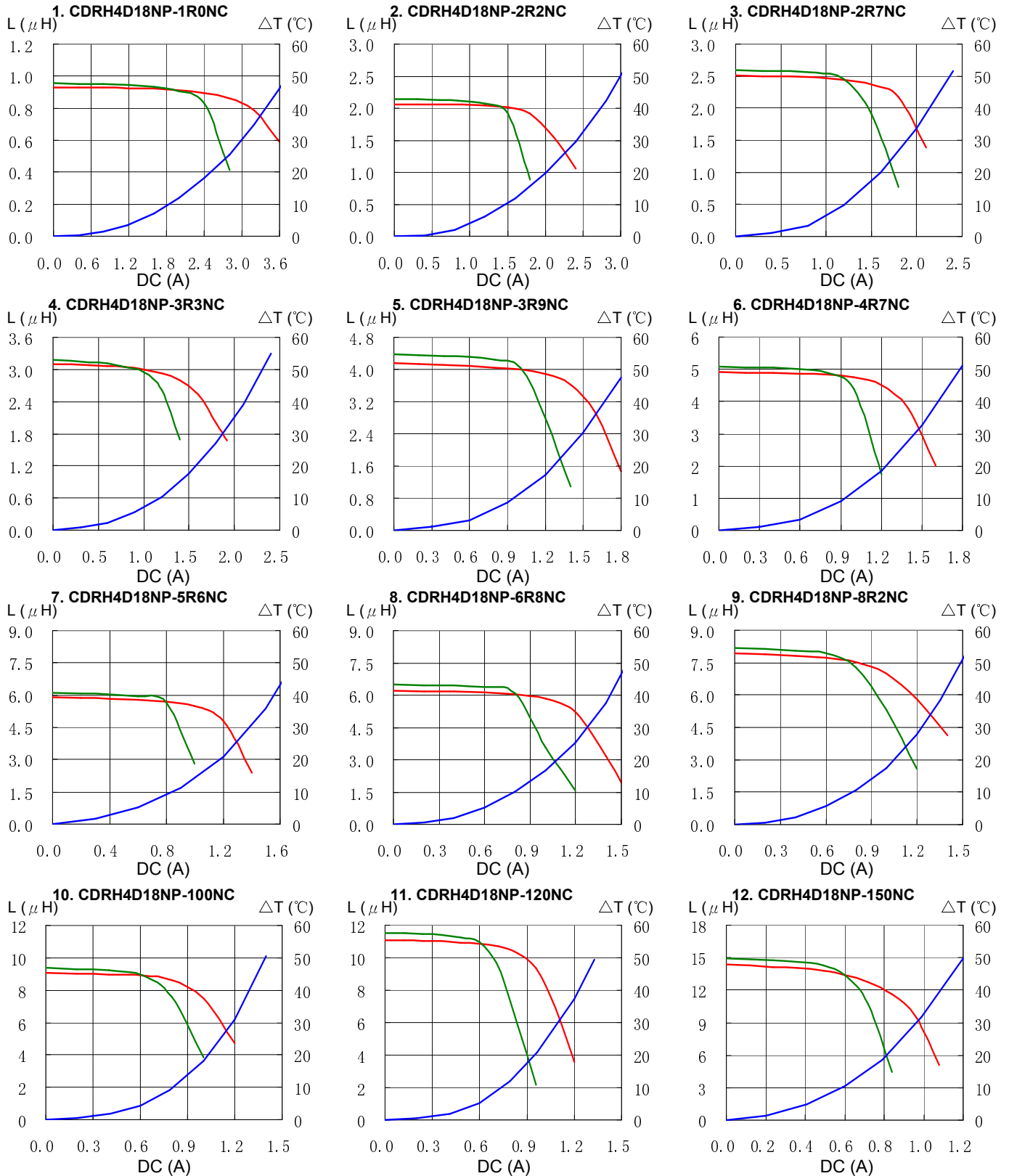
※2. Rated current: The DC current at which the inductance decreases to 65% of its nominal value or when $\Delta t=40^\circ\text{C}$, whichever is lower ($T_a=20^\circ\text{C}$).

SMD Power Inductor CDRH4D18



Saturation Current & Temperature Rise Graph

— L (20°C) — L (100°C) — ΔT

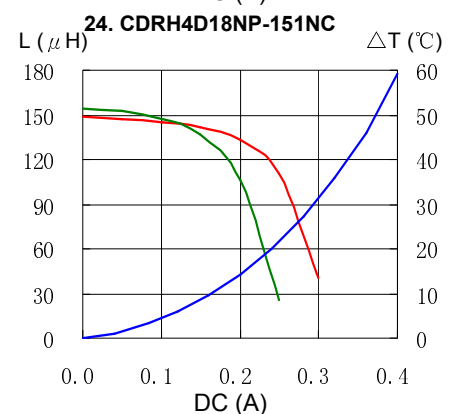
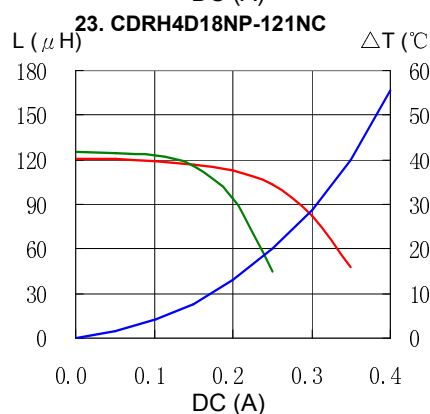
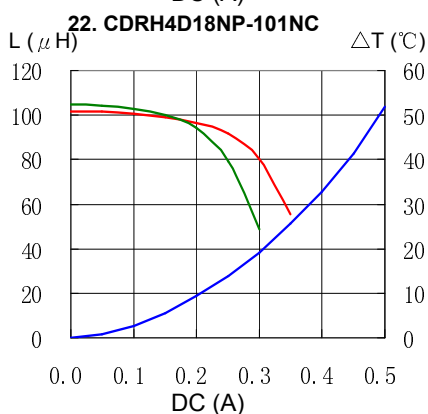
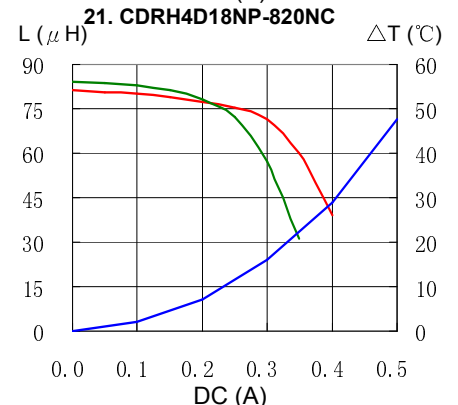
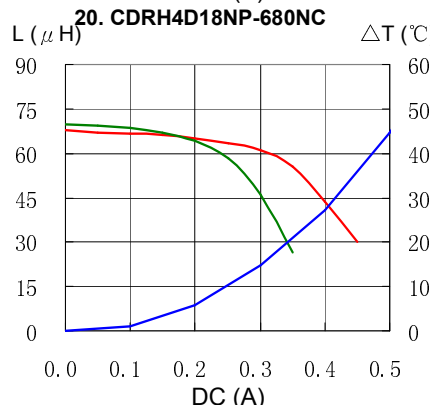
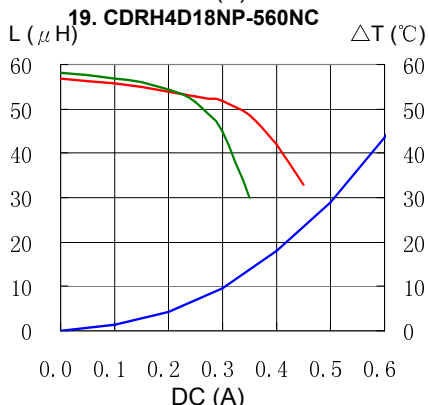
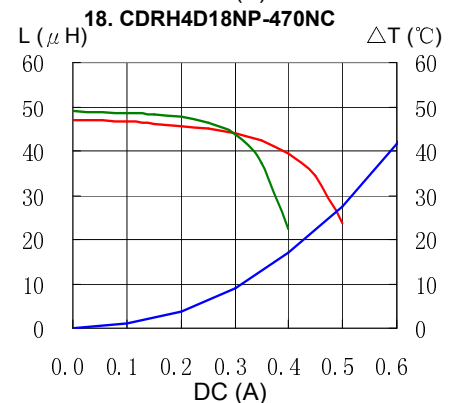
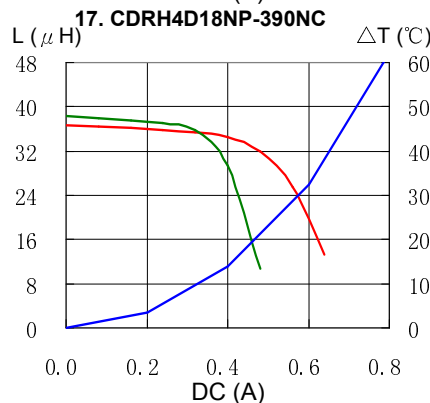
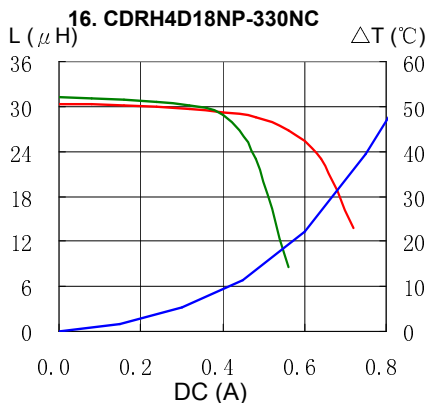
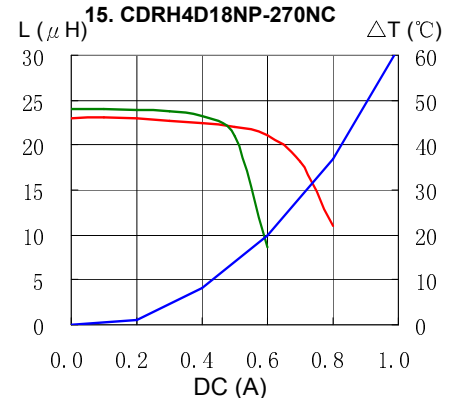
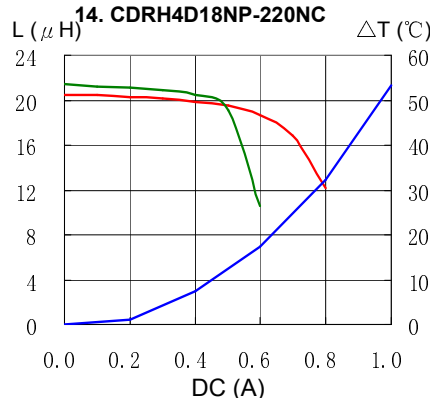
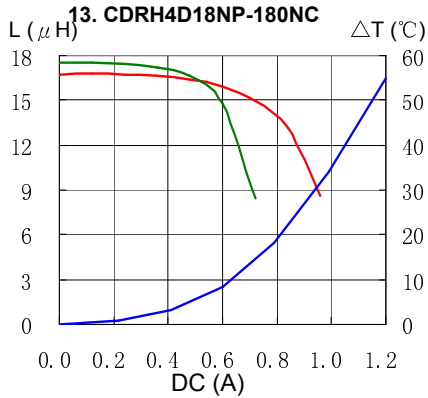


SMD Power Inductor CDRH4D18



Saturation Current & Temperature Rise Graph

— L (20°C) — L (100°C) — ΔT

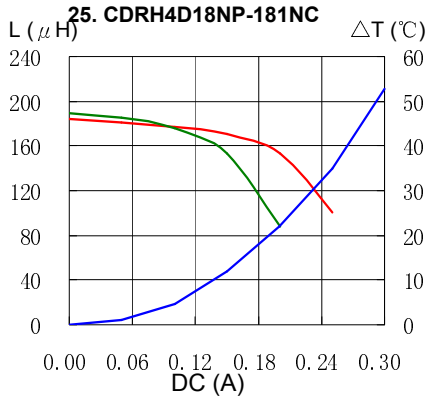


SMD Power Inductor CDRH4D18

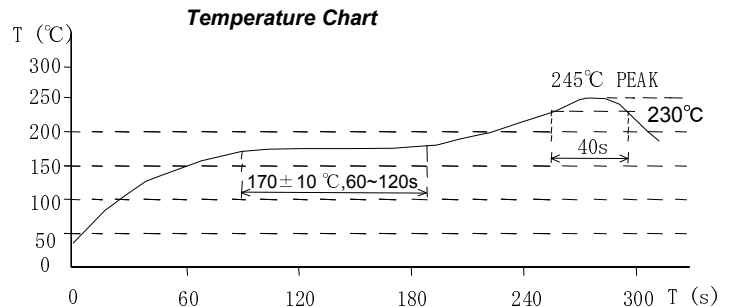
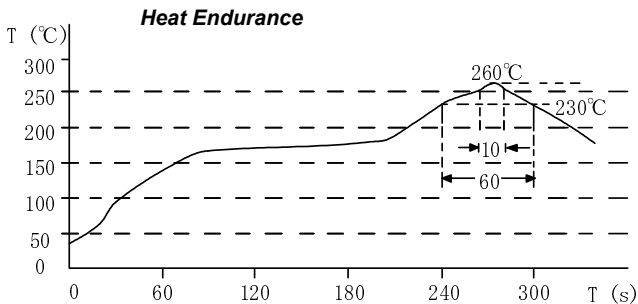


Saturation Current & Temperature Rise Graph

— L (20°C) — L (100°C) — ΔT



Solder Reflow Condition



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

Oberzell
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