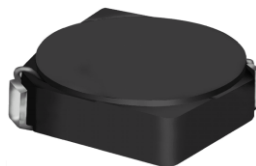
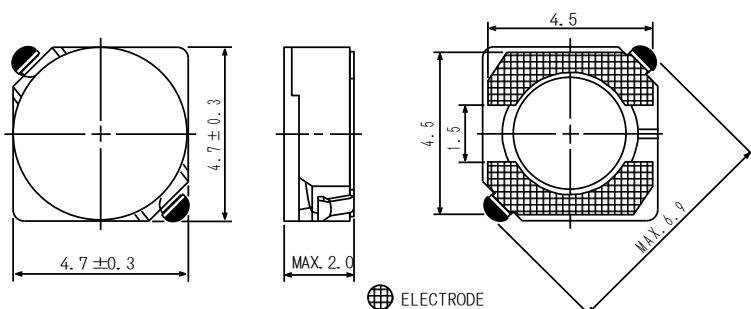


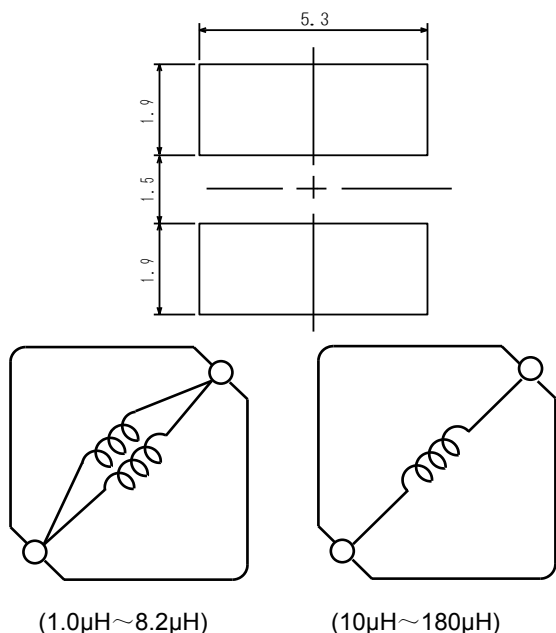
SMD Power Inductor CDRH4D18



Dimension - [mm]



Land pattern and Schematics - [mm]



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.

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 ~ 8.2 μ H at 7.96 MHz
 10 μ H ~ 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 ($T_a=20^\circ\text{C}$).

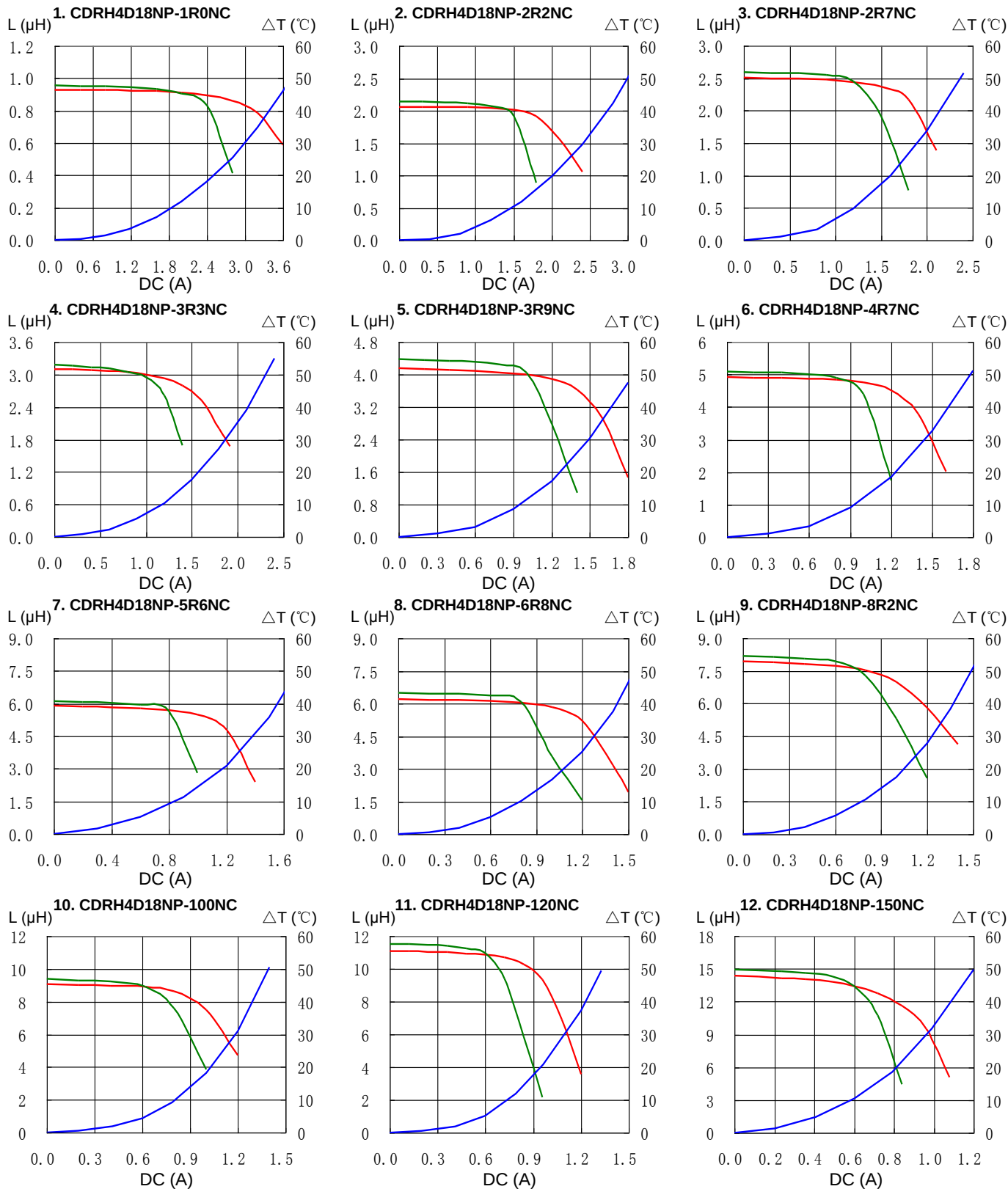
SMD Power Inductor

CDRH4D18



Saturation Current & Temperature Rise Graph

— L (20°C) — L (100°C) — ΔT



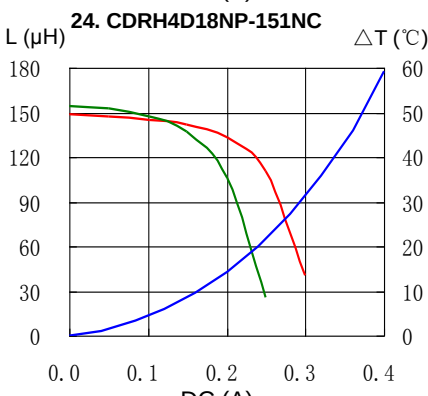
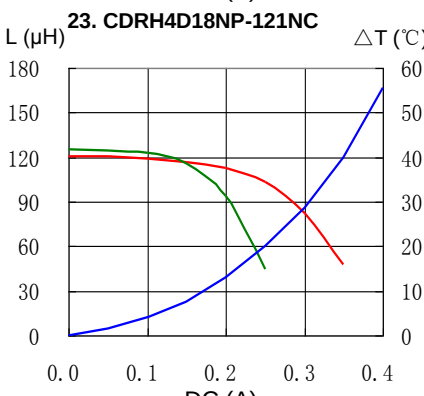
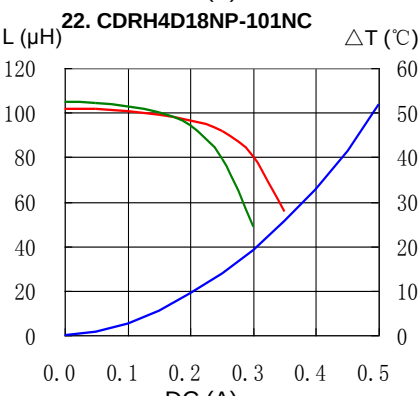
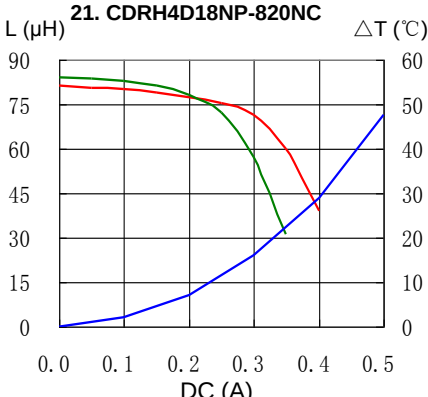
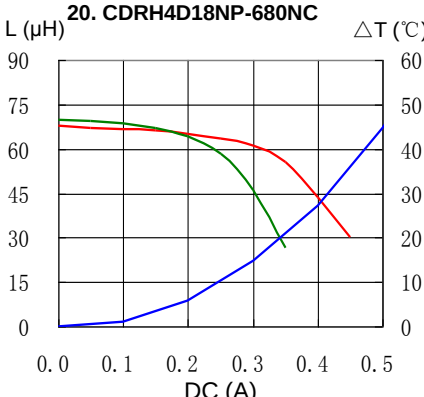
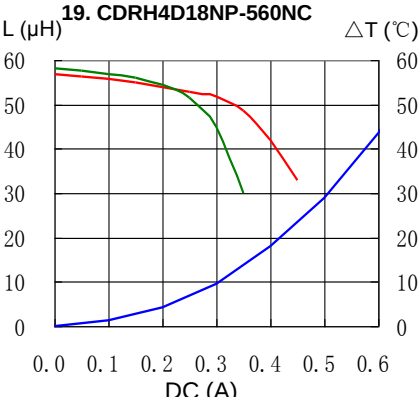
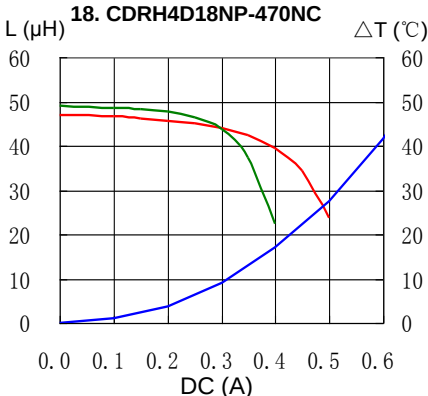
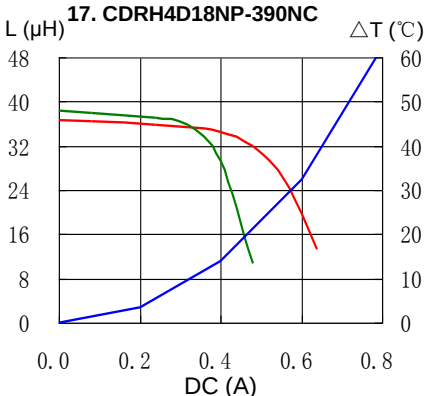
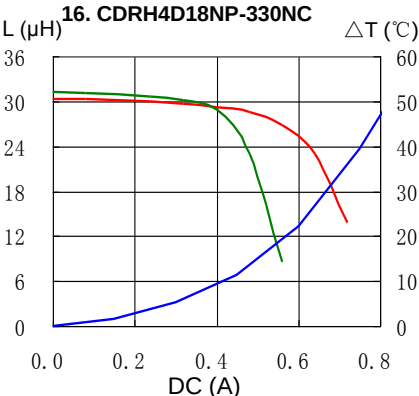
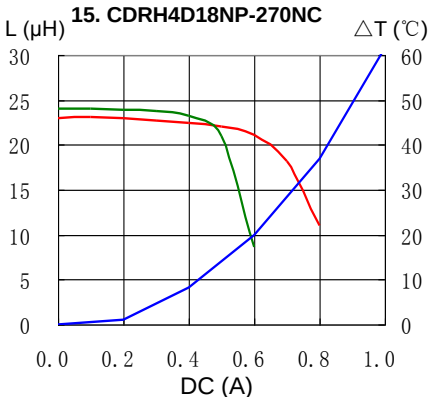
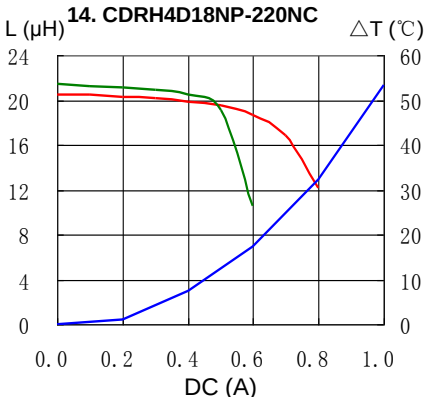
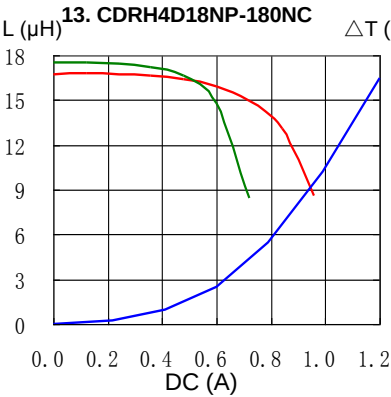
SMD Power Inductor

CDRH4D18



Saturation Current & Temperature Rise Graph

— L (20°C) — L (100°C) — ΔT

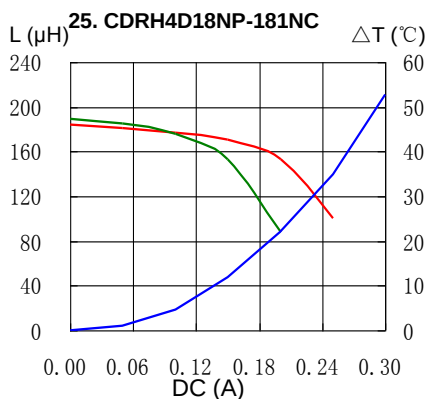


SMD Power Inductor CDRH4D18



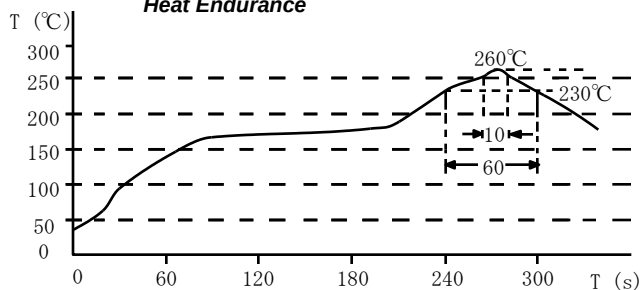
Saturation Current & Temperature Rise Graph

— L (20°C) — L (100°C) — ΔT

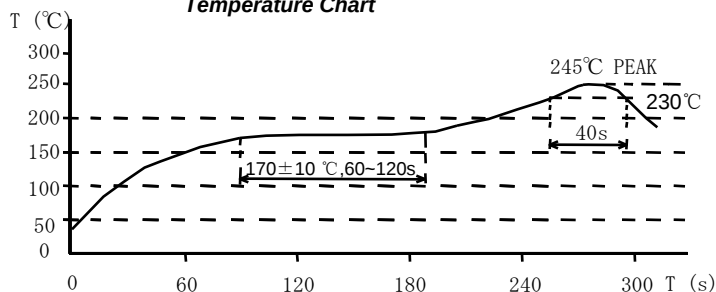


Solder Reflow Condition

Heat Endurance



Temperature Chart



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