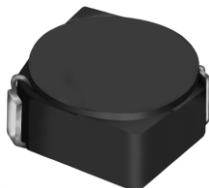
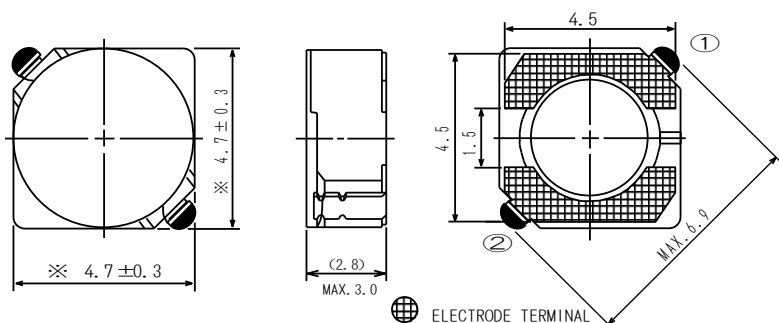


SMD Power Inductor CDRH4D28

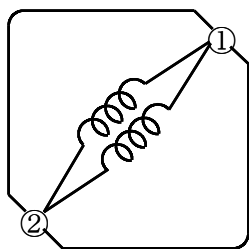
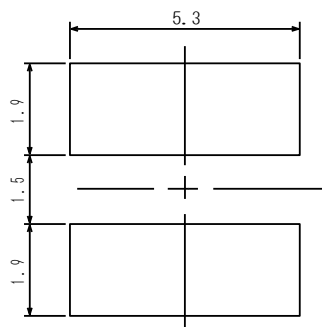


Dimension - [mm]

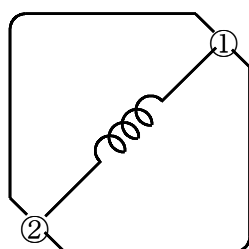


ELECTRODE TERMINAL

Land pattern and Schematics - [mm]



($1.2\mu\text{H} \sim 8.2\mu\text{H}$)



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

Description

- Ferrite drum core construction.
- Magnetically shielded.
- $L \times W \times H$: $5.0 \times 5.0 \times 3.0$ mm Max.
- Product weight: 0.2g(Ref.)
- Moisture Sensitivity Level: 1
- RoHS compliance.

Environmental Data

- Operating temperature range: $-40^\circ\text{C} \sim +100^\circ\text{C}$ (including coil's self temperature rise)
- Storage temperature range: $-40^\circ\text{C} \sim +100^\circ\text{C}$
- Solder reflow temperature: 260°C peak.

Packaging

- Carrier tape and reel packaging
- 12.9" diameter reel
- 2000pcs 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

CDRH4D28



Electrical Characteristics

Part No.	Stamp	Inductance (μH) [within] ※1	D.C.R.(Ω) Max. (Typ.) (at 20℃)	Rated Current (A) ※2
CDRH4D28NP-1R2NC	1R2	$1.2 \pm 30\%$	23.6m(17.5m)	2.56
CDRH4D28NP-1R8NC	1R8	$1.8 \pm 30\%$	27.5m(20.4m)	2.20
CDRH4D28NP-2R2NC	2R2	$2.2 \pm 30\%$	31.3m(23.2m)	2.04
CDRH4D28NP-2R7NC	2R7	$2.7 \pm 30\%$	43.3m(32.1m)	1.60
CDRH4D28NP-3R3NC	3R3	$3.3 \pm 30\%$	49.2m(36.4m)	1.57
CDRH4D28NP-3R9NC	3R9	$3.9 \pm 30\%$	64.8m(48.0m)	1.44
CDRH4D28NP-4R7NC	4R7	$4.7 \pm 30\%$	72.0m(53.3m)	1.32
CDRH4D28NP-5R6NC	5R6	$5.6 \pm 30\%$	100.9m(74.7m)	1.17
CDRH4D28NP-6R8NC	6R8	$6.8 \pm 30\%$	108.9m(80.7m)	1.12
CDRH4D28NP-8R2NC	8R2	$8.2 \pm 30\%$	117.5m(87.0m)	1.04
CDRH4D28NP-100NC	100	$10 \pm 30\%$	128.3m(95.0m)	1.00
CDRH4D28NP-120NC	120	$12 \pm 30\%$	131.6m(97.5m)	0.84
CDRH4D28NP-150NC	150	$15 \pm 30\%$	149.0m(110.4m)	0.76
CDRH4D28NP-180NC	180	$18 \pm 30\%$	166.0m(123.0m)	0.72
CDRH4D28NP-220NC	220	$22 \pm 30\%$	235.0m(174.5m)	0.70
CDRH4D28NP-270NC	270	$27 \pm 30\%$	261.0m(193.3m)	0.58
CDRH4D28NP-330NC	330	$33 \pm 30\%$	331.3m(254.8m)	0.56
CDRH4D28NP-390NC	390	$39 \pm 30\%$	383.7m(284.2m)	0.50
CDRH4D28NP-470NC	470	$47 \pm 30\%$	587.0m(435.0m)	0.48
CDRH4D28NP-560NC	560	$56 \pm 30\%$	624.5m(462.6m)	0.41
CDRH4D28NP-680NC	680	$68 \pm 30\%$	699.0m(517.8m)	0.35
CDRH4D28NP-820NC	820	$82 \pm 30\%$	914.8m(677.6m)	0.32
CDRH4D28NP-101NC	101	$100 \pm 30\%$	1.02(765.8m)	0.29
CDRH4D28NP-121NC	121	$120 \pm 30\%$	1.27(976.8m)	0.27
CDRH4D28NP-151NC	151	$150 \pm 30\%$	1.35(1.08)	0.24
CDRH4D28NP-181NC	181	$180 \pm 30\%$	1.54(1.23)	0.22

※1. Inductance measuring condition: at 100kHz.

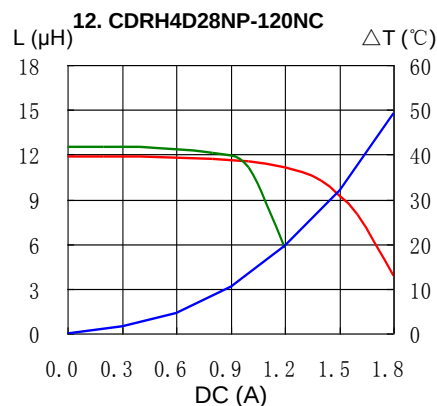
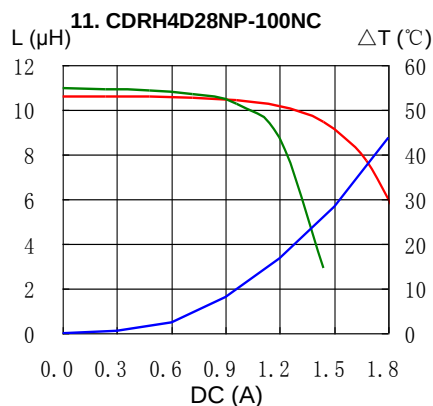
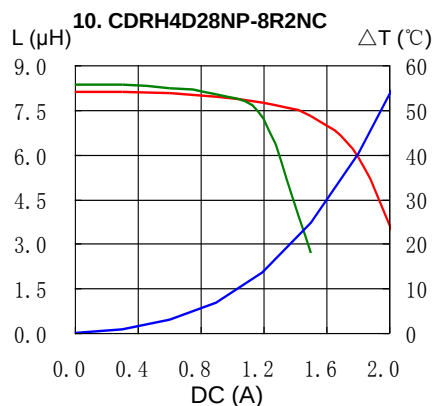
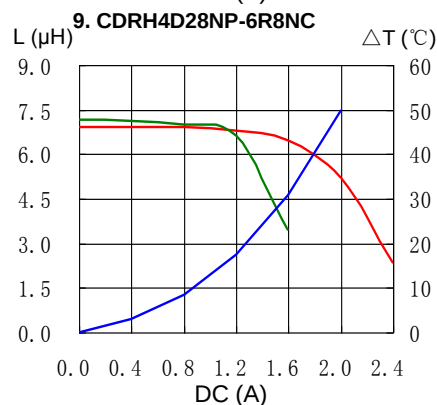
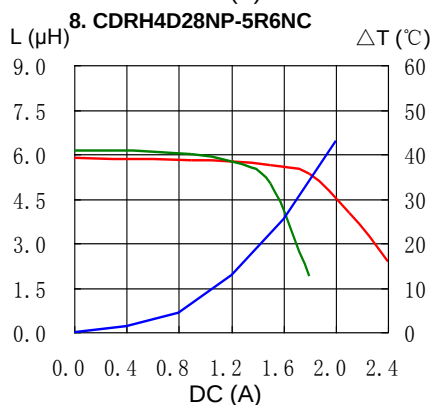
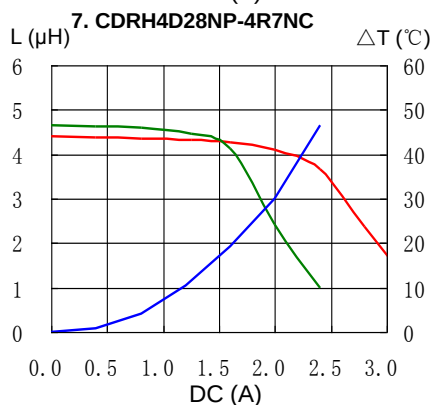
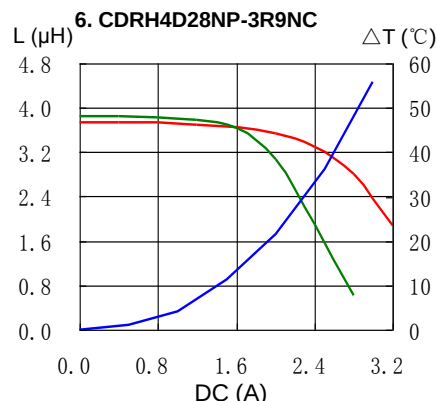
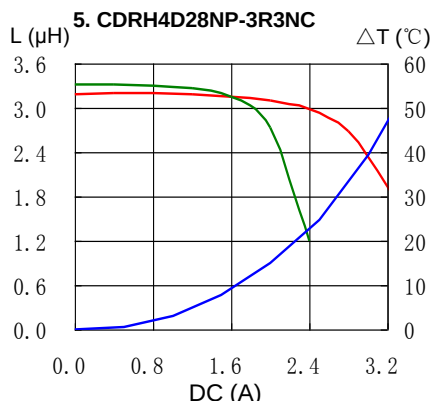
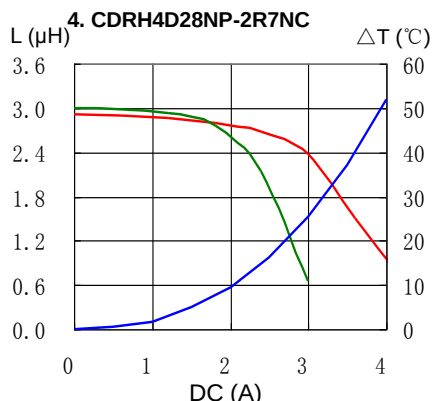
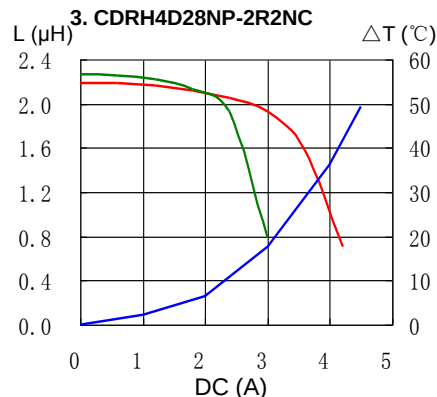
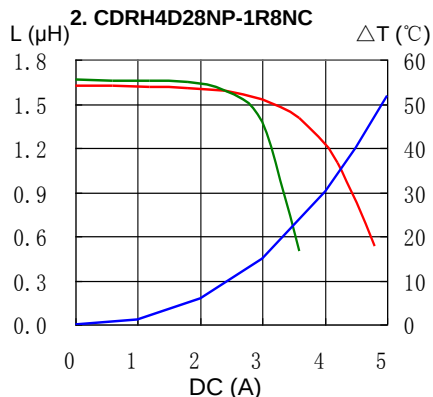
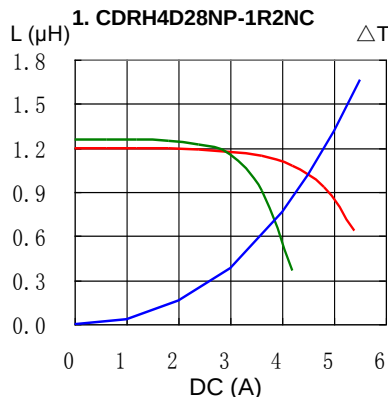
※2. Rated current: The DC current at which the inductance decreases to 65% of its nominal value or when $\Delta t=40^\circ\text{C}$, whichever is lower ($T_a=20^\circ\text{C}$).

SMD Power Inductor CDRH4D28



Saturation Current & Temperature Rise Graph

— L (20°C) — L (100°C) — ΔT

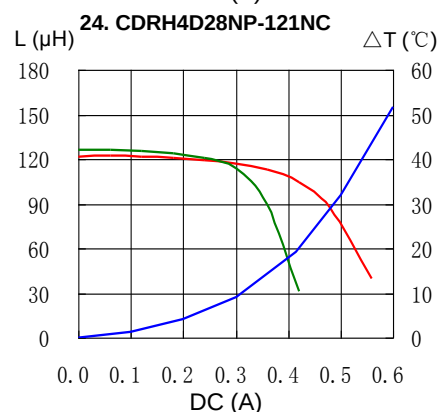
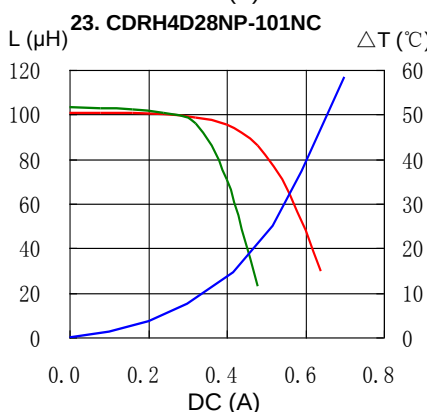
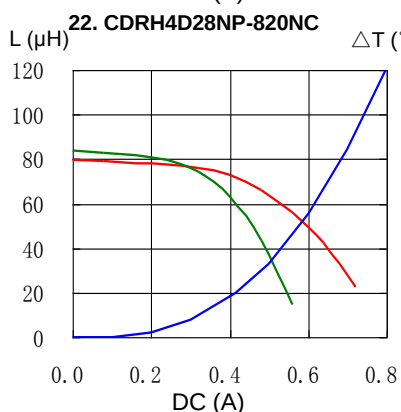
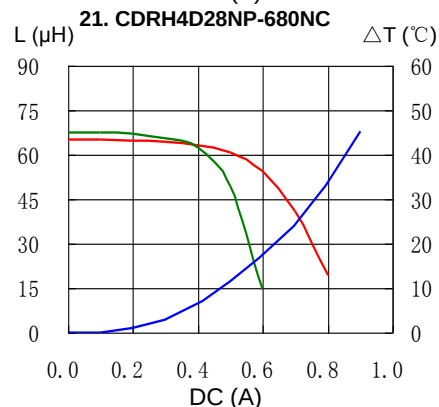
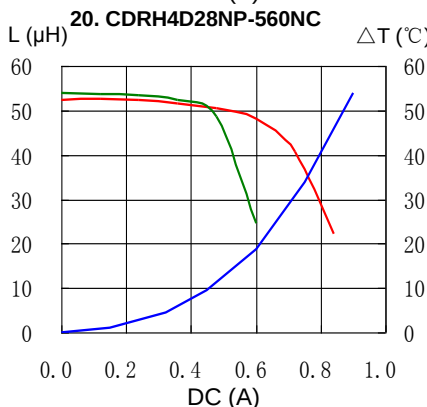
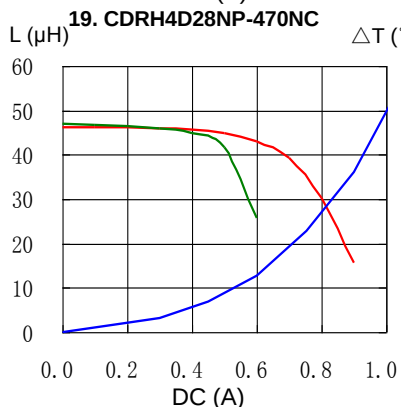
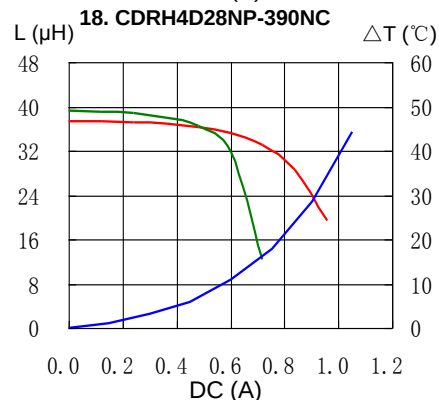
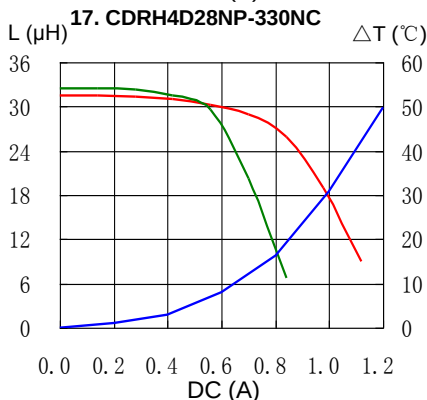
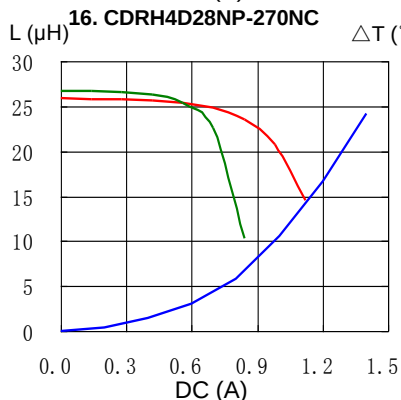
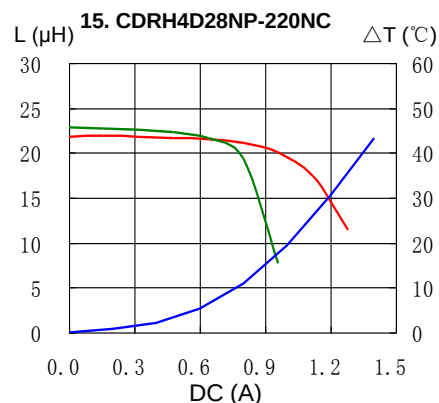
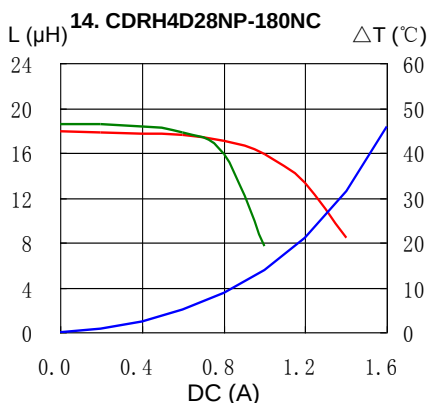
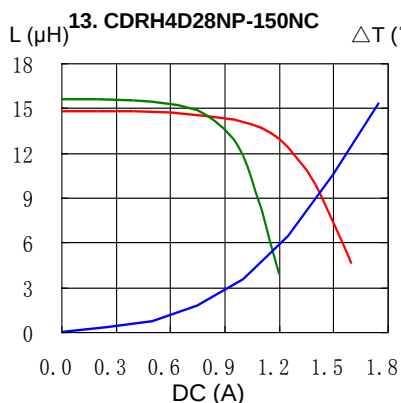


SMD Power Inductor CDRH4D28



Saturation Current & Temperature Rise Graph

— L (20°C) — L (100°C) — ΔT



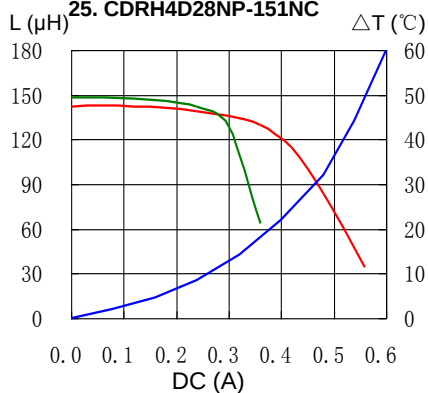
SMD Power Inductor CDRH4D28



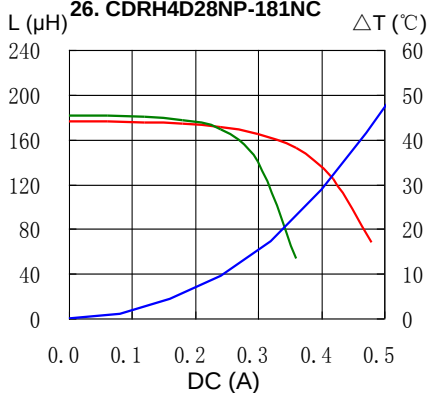
Saturation Current & Temperature Rise Graph

— L (20°C) — L (100°C) — ΔT

25. CDRH4D28NP-151NC

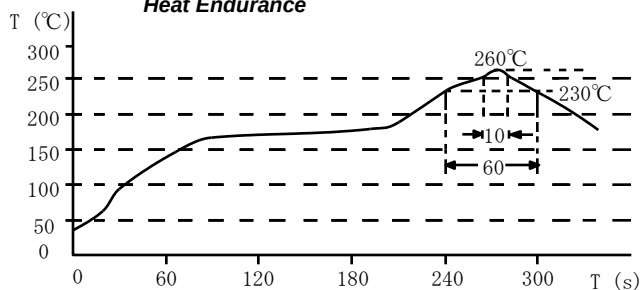


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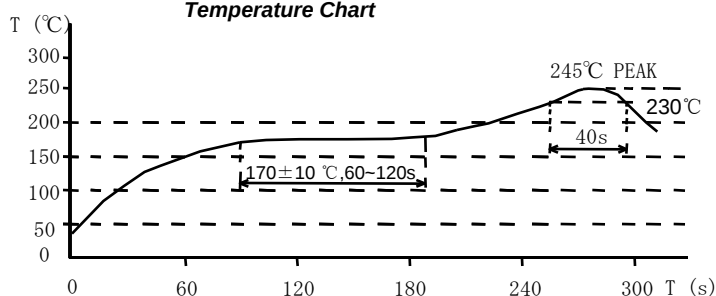


Solder Reflow Condition

Heat Endurance



Temperature Chart



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