



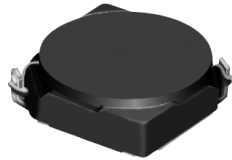
THE DATASHEET OF CDRH5D18NP-270NC



SMD Power Inductor CDRH5D18



Halogen Free



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.
- Halogen Free available.

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.

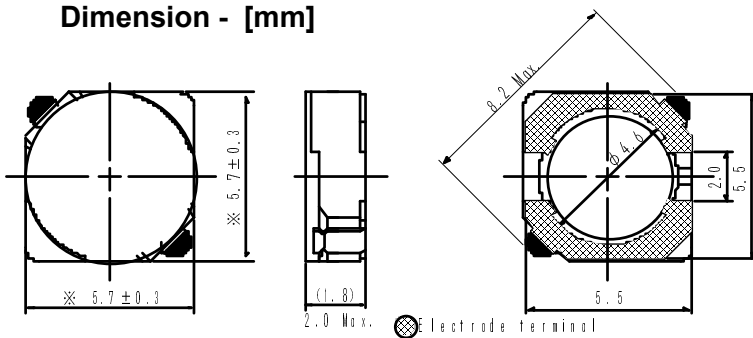
Packaging

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

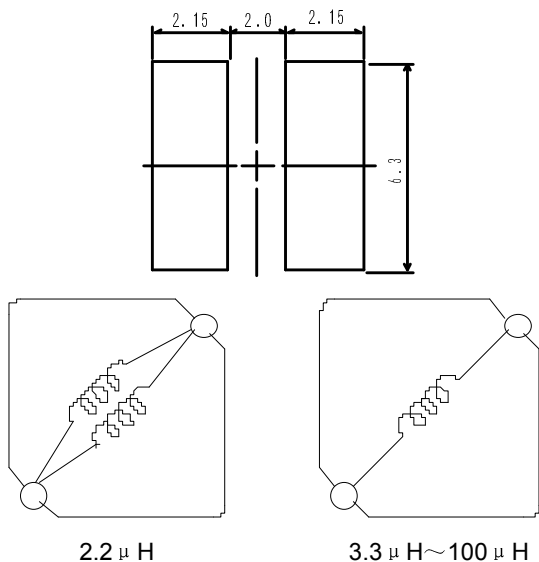
Applications

- 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]



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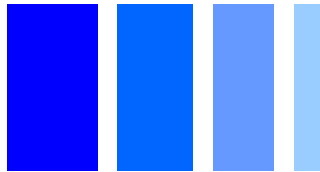
Electrical Characteristics

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

※1. Inductance measuring condition: at 10kHz.

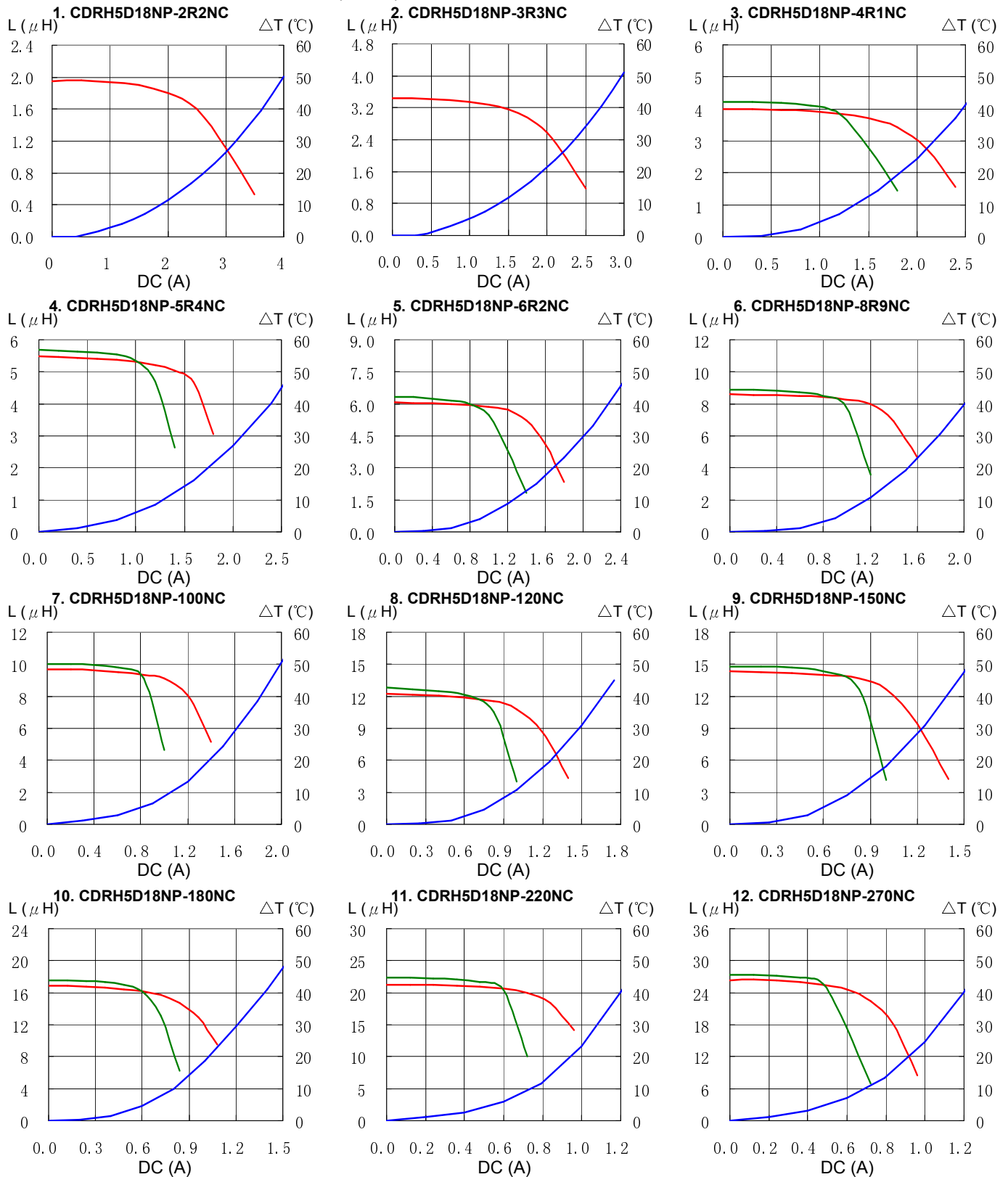
※2. Rated current: The DC current at which the inductance decreases to 65% of its nominal value or when $\Delta t=30^{\circ}\text{C}$, whichever is lower ($T_a=20^{\circ}\text{C}$).

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Saturation Current & Temperature Rise Graph

— L (20°C) — L (105°C) — ΔT

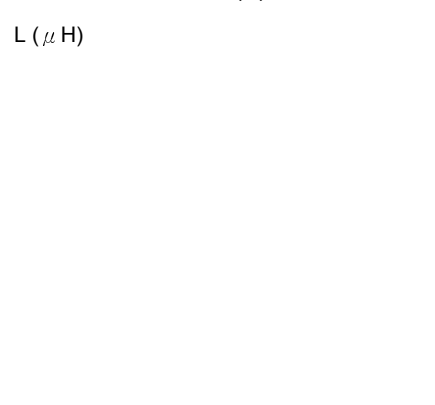
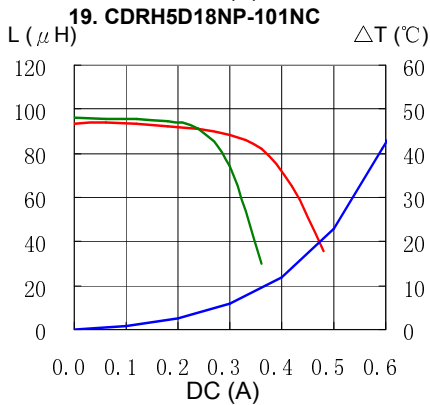
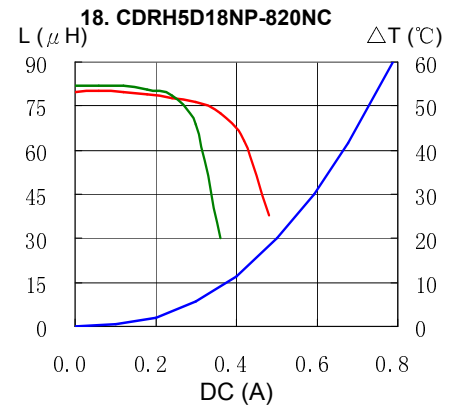
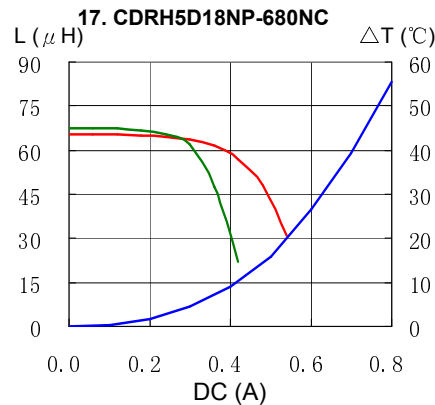
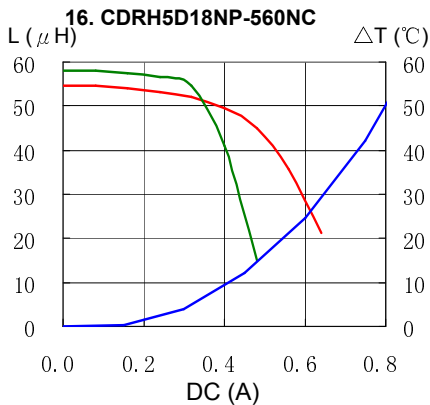
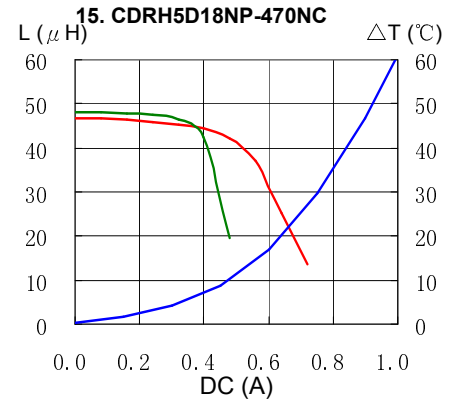
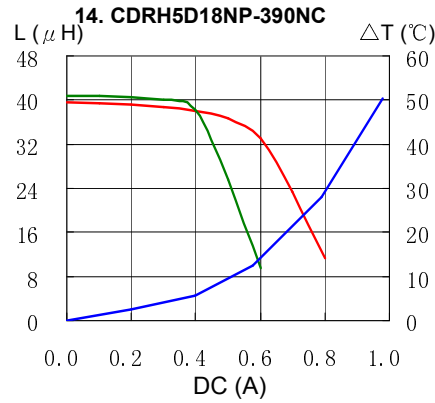
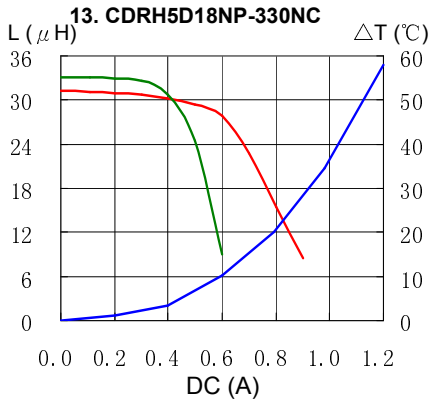


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Saturation Current & Temperature Rise Graph

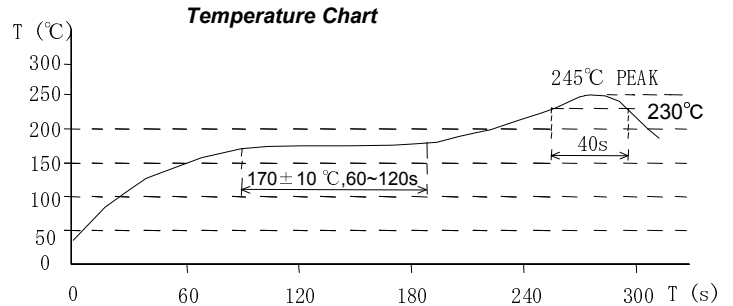
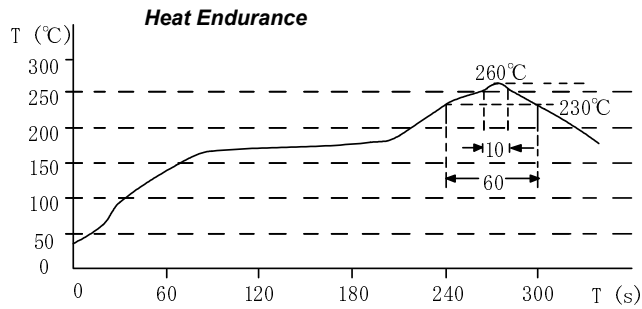
— L (20°C) — L (105°C) — ΔT



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Solder Reflow Condition



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