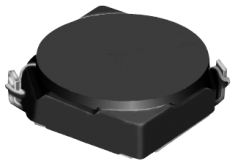
SMD Power Inductor
CDRH5D18

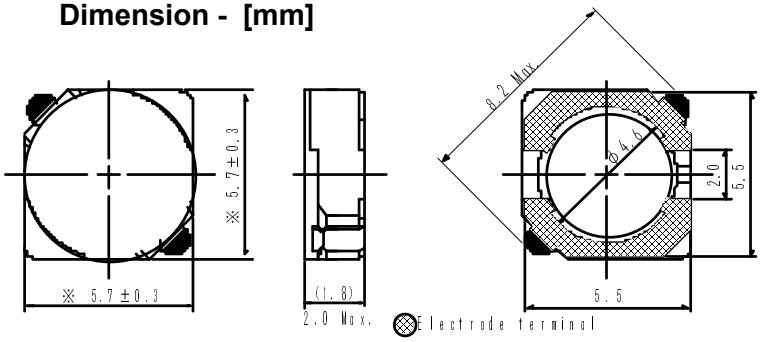
RoHS

Halogen Free

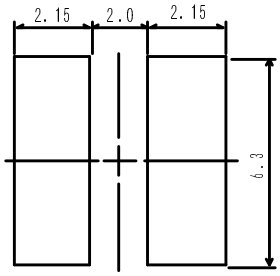


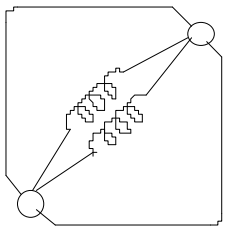
Description
- Ferrite drum core construction.
- Magnetically shielded.
- L × W × H:6.0 × 6.0 × 2.0 mm Max.
- Product weight: 220mg(Ref.)
- Moisture Sensitivity Level: 1
- RoHS compliance.
- Halogen Free available.

Dimension - [mm]

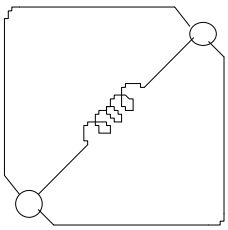


Land pattern and Schematics - [mm]





2.2 μ H



3.3 μ H～100 μ H

Environmental Data
- Operating temperature range: -40℃~+100℃ (including coil's self temperature rise)
- Storage temperature range: -40℃～+100℃
- Solder reflow temperature: 260 ℃ 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.

Revised: 11-Jun-12

Electrical Characteristics

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

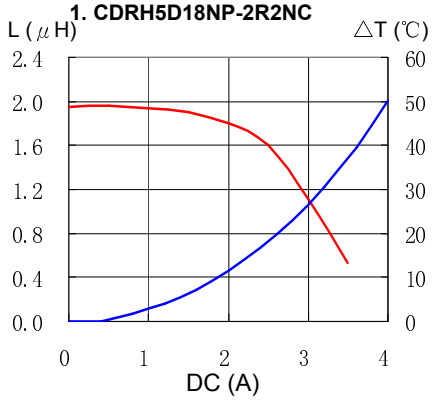
※1. Inductance measuring condition: at 10kHz.

※2. Rated current: The DC current at which the inductance decreases to 65% of it's nominal value or when △t=30℃, whichever is lower (Ta=20℃).

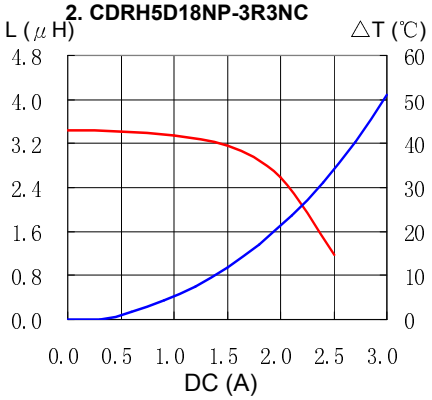
Saturation Current & Temperature Rise Graph

L (20℃) L (105℃) △T

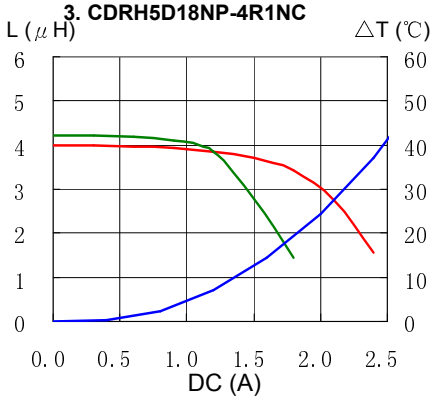
1. CDRH5D18NP-2R2NC



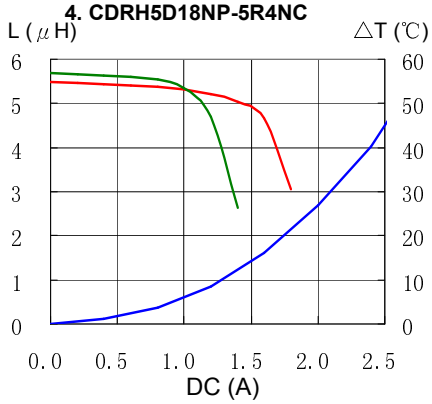
2. CDRH5D18NP-3R3NC



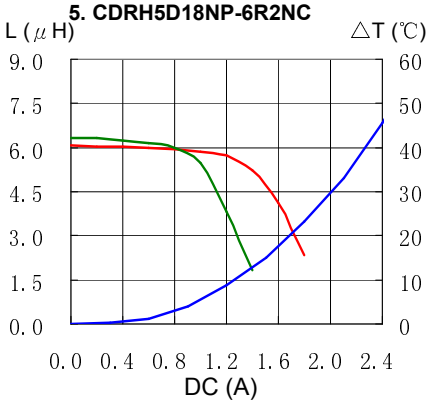
3. CDRH5D18NP-4R1NC



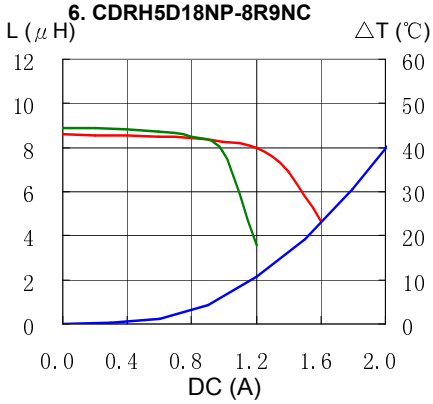
4. CDRH5D18NP-5R4NC



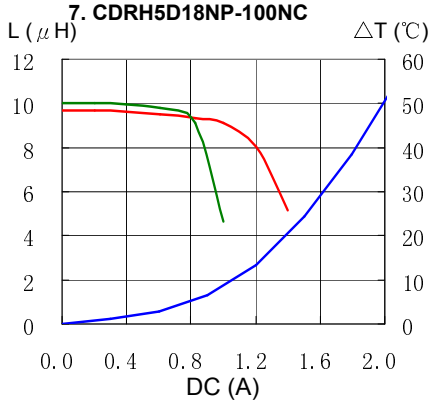
5. CDRH5D18NP-6R2NC



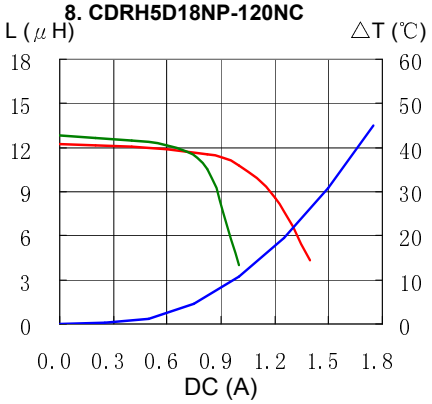
6. CDRH5D18NP-8R9NC



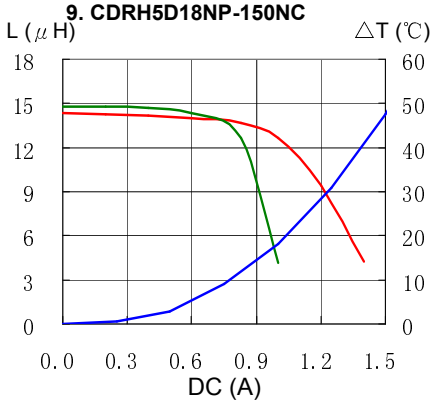
7. CDRH5D18NP-100NC



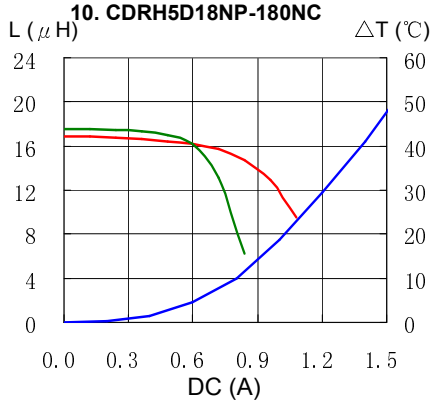
8. CDRH5D18NP-120NC



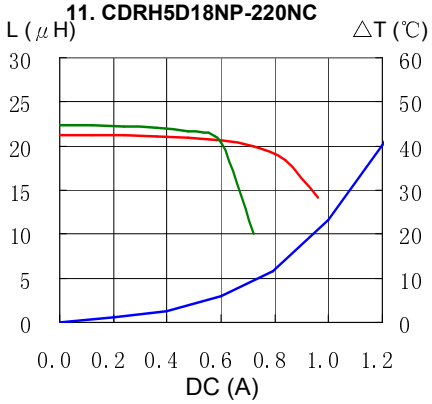
9. CDRH5D18NP-150NC



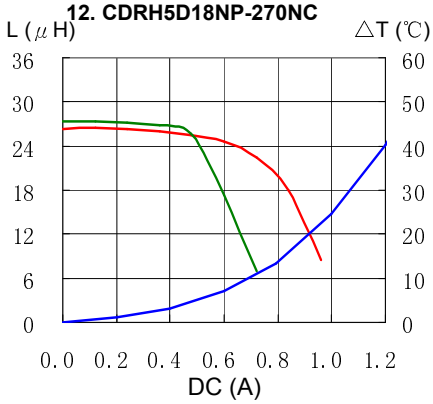
10. CDRH5D18NP-180NC



11. CDRH5D18NP-220NC



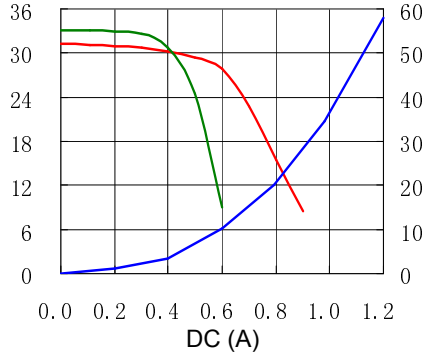
12. CDRH5D18NP-270NC



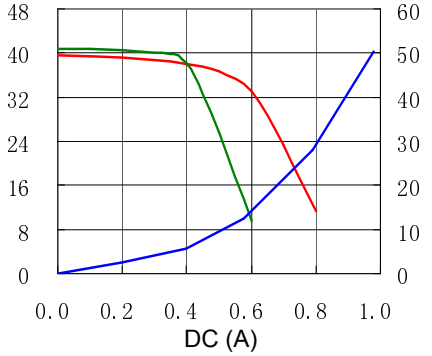
Saturation Current & Temperature Rise Graph

L (20℃) L (105℃) △T

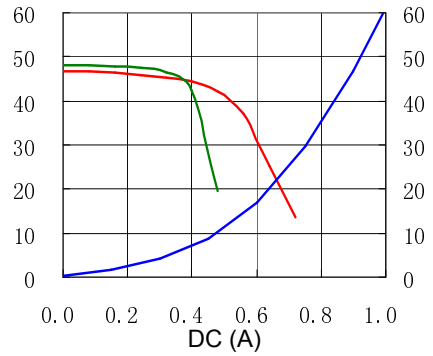
13. CDRH5D18NP-330NC



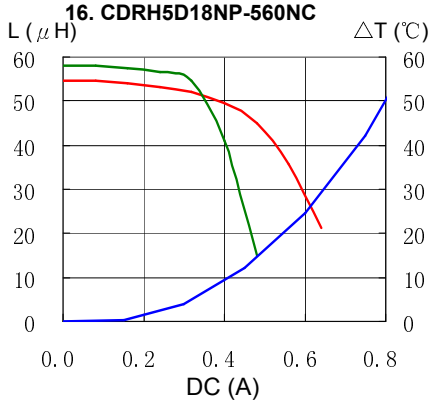
14. CDRH5D18NP-390NC



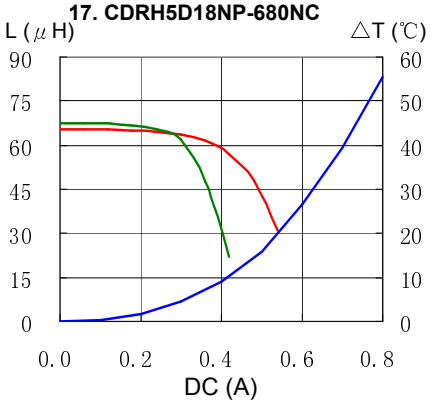
15. CDRH5D18NP-470NC



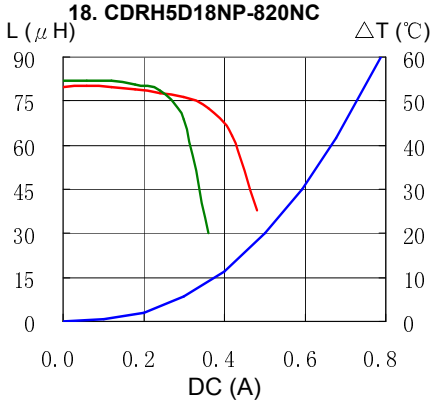
16. CDRH5D18NP-560NC



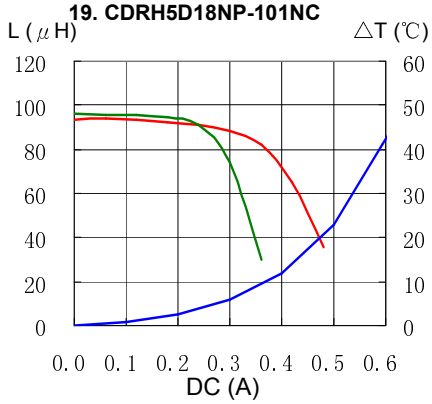
17. CDRH5D18NP-680NC



18. CDRH5D18NP-820NC



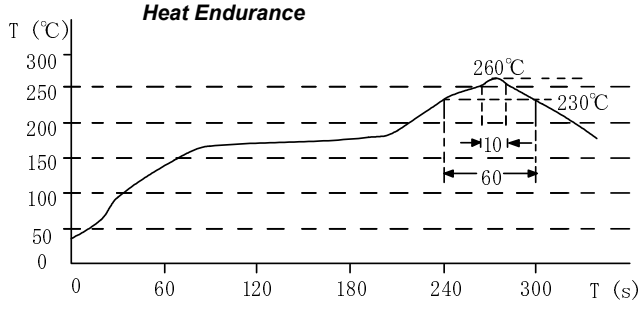
19. CDRH5D18NP-101NC



L (μH)

Solder Reflow Condition

Heat Endurance



Temperature Chart

