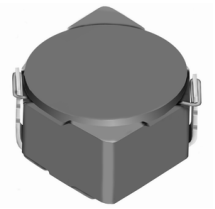
THE DATASHEET OF

CDRH6D38-100NC

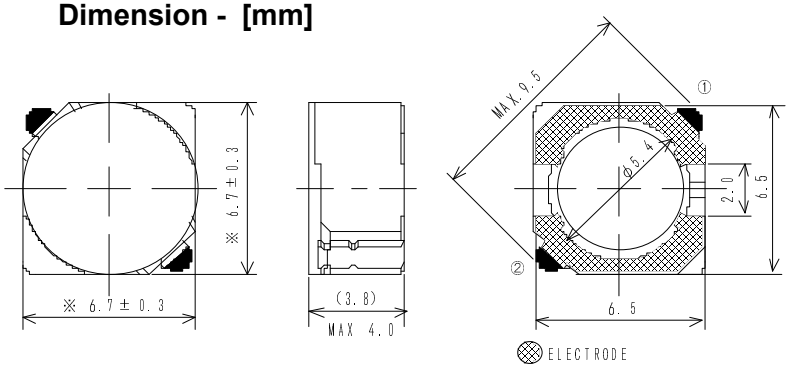
SMD Power Inductor
CDRH6D38

RoHS

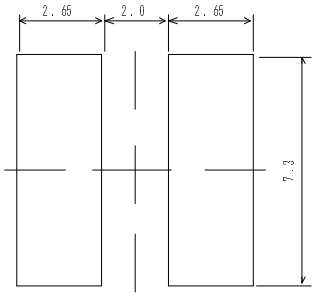
Halogen Free

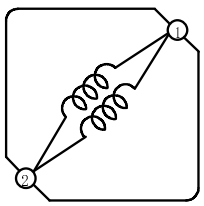


Dimension - [mm]

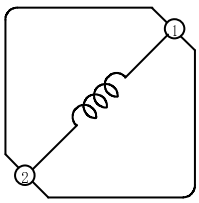


Land pattern and Schematics - [mm]





(3.3μH～15μH)



(18μH～100μH)

Description
- Ferrite drum core construction.
- Magnetically shielded.
- L×W×H:7.0×7.0×4.0 mm Max.
- Product weight: 0.6g(Ref.)
- Moisture Sensitivity Level: 1
- RoHS compliance.
- Halogen Free available.

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"diameter reel
- 1000pcs per reel

Applications
- Ideally used in Game machine, HDD, Notebook PC, Projector, PDA, etc as DC-DC converter inductors.

Revised: 7-Jan-14

Electrical Characteristics

Part Name	Stamp	Inductance (μH) [within] ※1	D.C.R.(Ω) Max. (Typ.) (at 20℃)	Rated Current (A) ※2
CDRH6D38NP-3R3NC	3R3	3.3±30%	20m (15m)	3.50
CDRH6D38NP-5R0NC	5R0	5.0±30%	24m (18m)	2.90
CDRH6D38NP-6R2NC	6R2	6.2±30%	27m (20m)	2.50
CDRH6D38NP-7R4NC	7R4	7.4±30%	31m (23m)	2.30
CDRH6D38NP-8R7NC	8R7	8.7±30%	34m (25m)	2.20
CDRH6D38NP-100NC	100	10±30%	38m (28m)	2.00
CDRH6D38NP-120NC	120	12±30%	53m (39m)	1.70
CDRH6D38NP-150NC	150	15±30%	57m (42m)	1.60
CDRH6D38NP-180NC	180	18±30%	92m (68m)	1.50
CDRH6D38NP-220NC	220	22±30%	96m (71m)	1.30
CDRH6D38NP-270NC	270	27±30%	109m (81m)	1.20
CDRH6D38NP-330NC	330	33±30%	124m (92m)	1.10
CDRH6D38NP-390NC	390	39±30%	138m(102m)	1.00
CDRH6D38NP-470NC	470	47±30%	155m(115m)	0.95
CDRH6D38NP-560NC	560	56±30%	202m(150m)	0.85
CDRH6D38NP-680NC	680	68±30%	234m(173m)	0.75
CDRH6D38NP-820NC	820	82±30%	324m(240m)	0.70
CDRH6D38NP-101NC	101	100±30%	358m(265m)	0.65

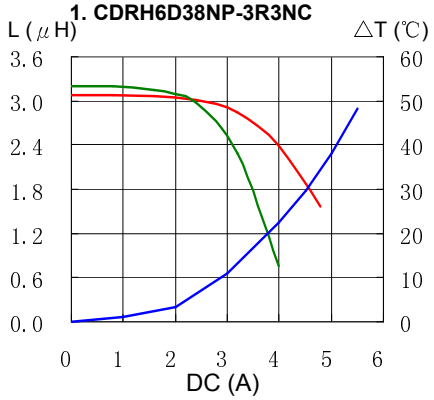
※1. Inductance measuring condition: at 100kHz.

※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℃).

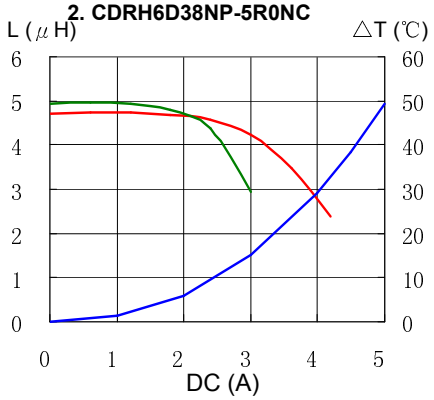
Saturation Current & Temperature Rise Graph

L (20℃) L (105℃) △T

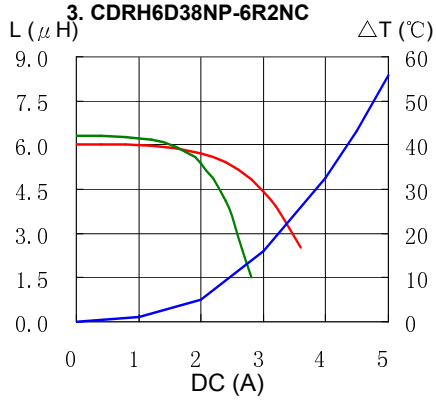
1. CDRH6D38NP-3R3NC



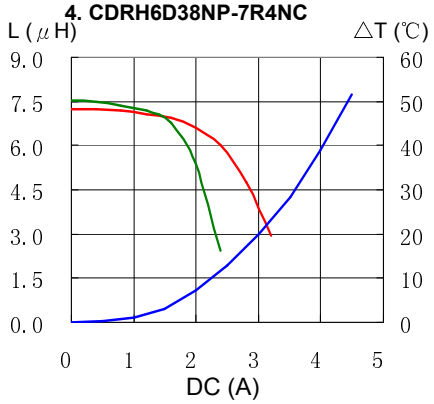
2. CDRH6D38NP-5R0NC



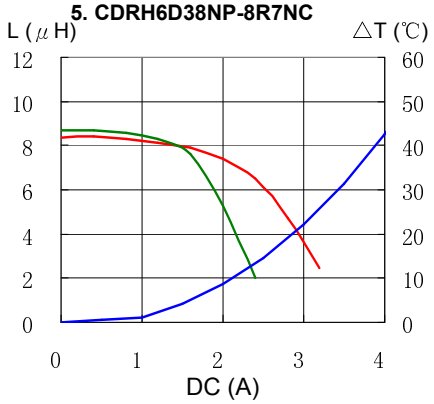
3. CDRH6D38NP-6R2NC



4. CDRH6D38NP-7R4NC



5. CDRH6D38NP-8R7NC



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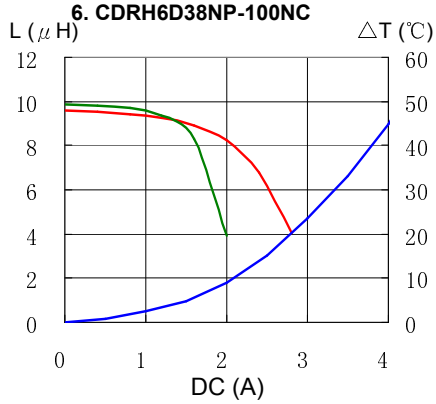
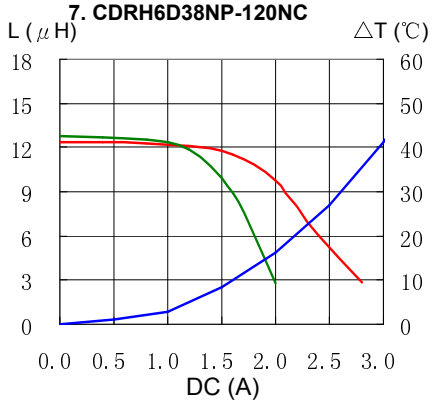
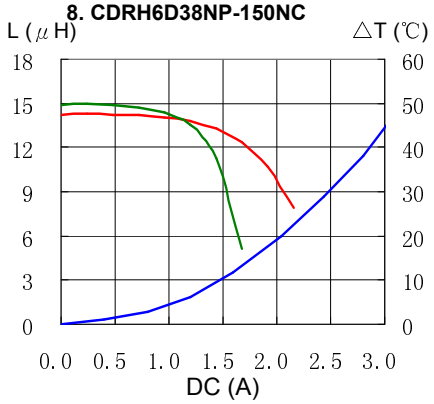


7. CDRH6D38NP-120NC



8. CDRH6D38NP-150NC



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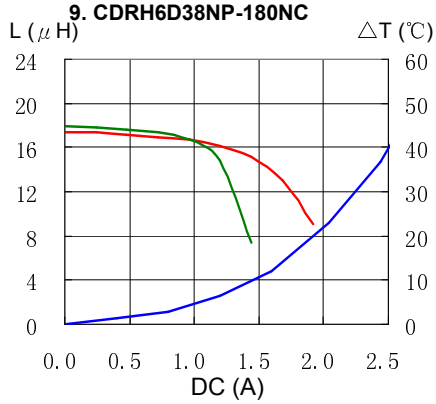
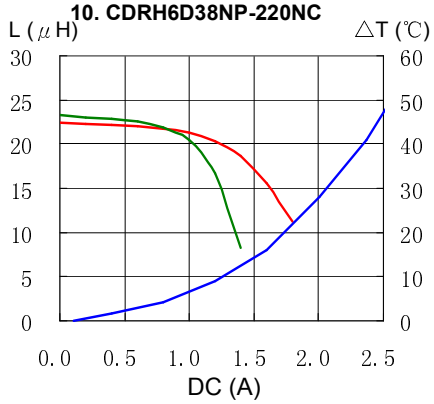
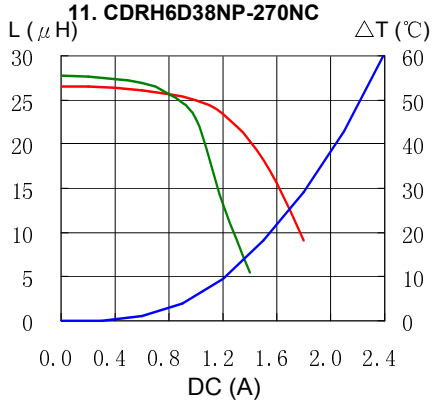


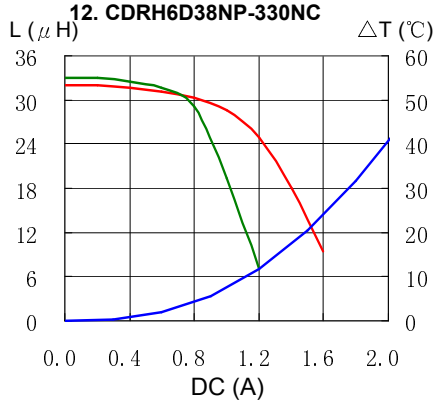
10. CDRH6D38NP-220NC



11. CDRH6D38NP-270NC



12. CDRH6D38NP-330NC

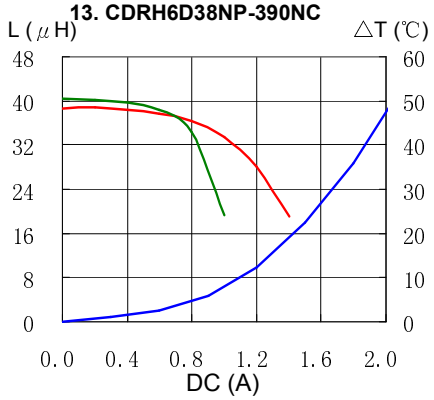


SMD Power Inductor
CDRH6D38

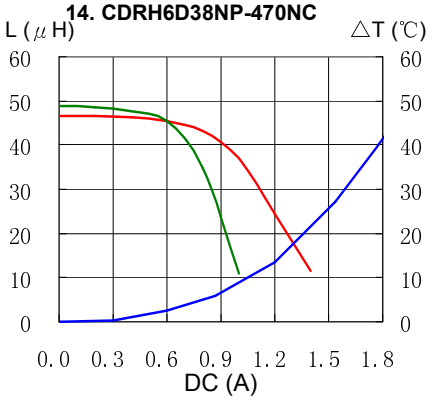
Saturation Current & Temperature Rise Graph

L (20℃) L (105℃) △T

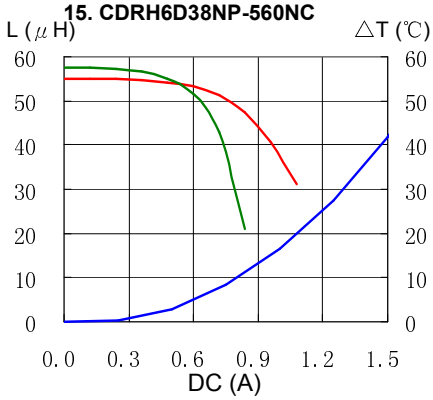
13. CDRH6D38NP-390NC



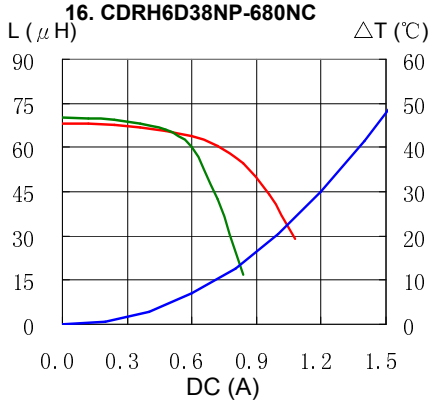
14. CDRH6D38NP-470NC



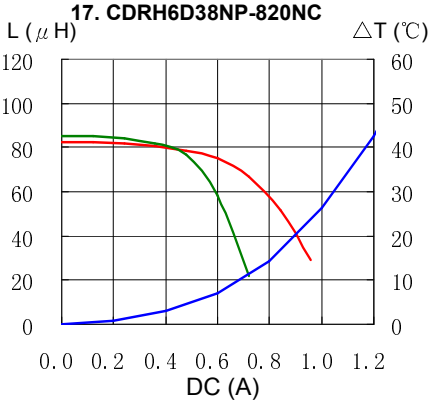
15. CDRH6D38NP-560NC



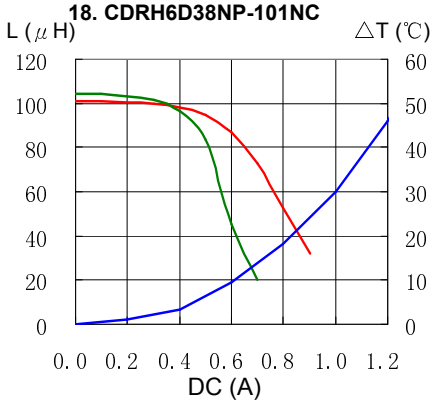
16. CDRH6D38NP-680NC



17. CDRH6D38NP-820NC

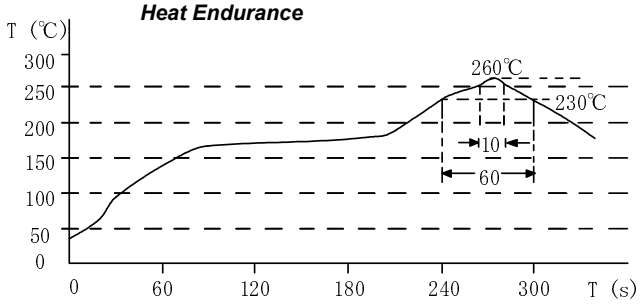


18. CDRH6D38NP-101NC

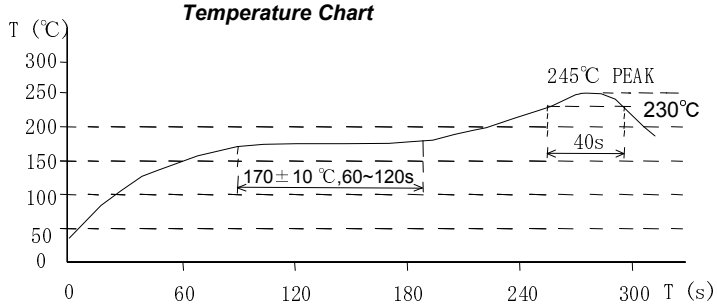


Solder Reflow Condition

Heat Endurance



Temperature Chart



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