SMD Power Inductor

CDRH6D38

Description

- Ferrite drum core construction.
- Magnetically shielded.
- L × W × H:7.0 × 7.0 × 4.0 mm Max.
- Product weight: 0.7g (Ref.)
- Moisture Sensitivity Level: 1
- RoHS compliance.

Environmental Data

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

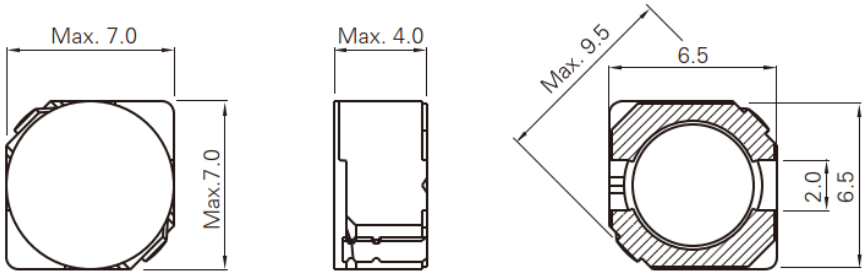
Packaging

- Carrier tape and reel packaging
- 13"diameter reel
- 1,000pcs per reel

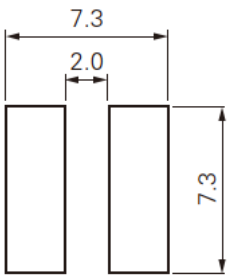
Applications

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

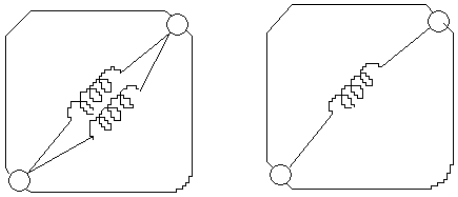
Dimension - [mm]



Land patterns - [mm]



Schematics



(3.3μH～15μH) (18μH～100μH)

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Electrical Characteristics

Part Name	Inductance (μH) [within] ※1	D.C.R.(mΩ) Max. (Typ.) (at 20℃)	Rated Current (A) Max. (Typ.) ※2	Temperature Rise Current (A) (Typ.) ※3
CDRH6D38NP-3R3NC	3.3±30%	20.0 (15.0)	3.50 (4.10)	(5.10)
CDRH6D38NP-5R0NC	5.0±30%	24.0 (18.0)	2.90 (3.50)	(4.60)
CDRH6D38NP-6R2NC	6.2±30%	27.0 (20.0)	2.50 (3.00)	(4.30)
CDRH6D38NP-7R4NC	7.4±30%	31.0 (23.0)	2.30 (2.80)	(4.00)
CDRH6D38NP-8R7NC	8.7±30%	34.0 (25.0)	2.20 (2.60)	(3.80)
CDRH6D38NP-100NC	10±30%	38.0 (28.0)	2.00 (2.44)	(3.60)
CDRH6D38NP-120NC	12±30%	53.0 (39.0)	1.70 (2.20)	(2.95)
CDRH6D38NP-150NC	15±30%	57.0 (42.0)	1.60 (2.00)	(2.85)
CDRH6D38NP-180NC	18±30%	92.0 (68.0)	1.50 (1.78)	(2.50)
CDRH6D38NP-220NC	22±30%	96.0 (71.0)	1.30 (1.68)	(2.30)
CDRH6D38NP-270NC	27±30%	109 (81.0)	1.20 (1.52)	(2.00)
CDRH6D38NP-330NC	33±30%	124 (92.0)	1.10 (1.30)	(1.95)
CDRH6D38NP-390NC	39±30%	138 (102)	1.00 (1.28)	(1.88)
CDRH6D38NP-470NC	47±30%	155 (115)	0.95 (1.12)	(1.75)
CDRH6D38NP-560NC	56±30%	202 (150)	0.85 (1.00)	(1.45)
CDRH6D38NP-680NC	68±30%	234 (173)	0.75 (0.95)	(1.35)
CDRH6D38NP-820NC	82±30%	324 (240)	0.70 (0.83)	(1.15)
CDRH6D38NP-101NC	100±30%	358 (265)	0.65 (0.74)	(1.10)

※1 Inductance measuring condition: at 100kHz.

※2 The saturation current: This indicates the value of DC current when the inductance decreases to 65% of its nominal value.

※3 The temperature rise: The value of DC current when the temperature rise is △T＝40℃ (Ta＝20℃).

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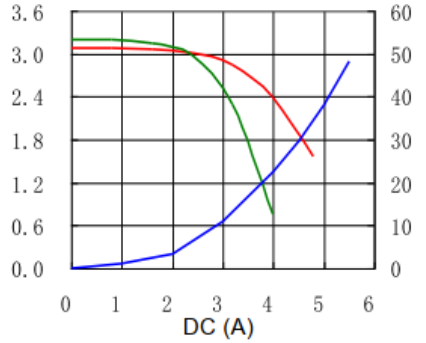
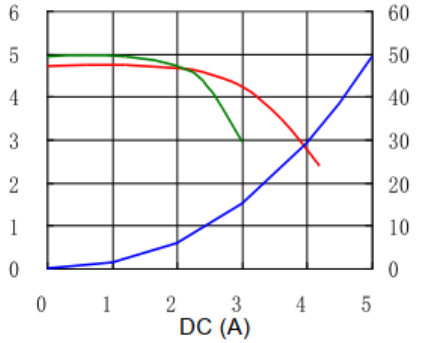
Saturation Current & Temperature Rise Graph

L (20℃) L (100℃) △T

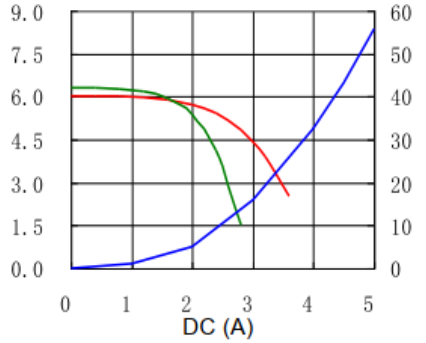
1. CDRH6D38NP-3R3NC



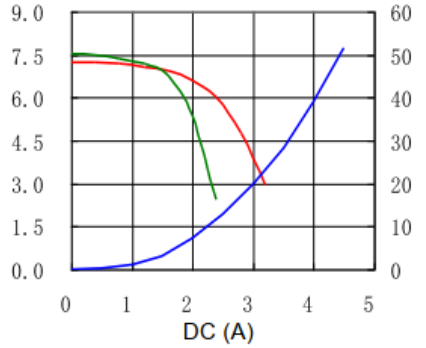
2. CDRH6D38NP-5R0NC



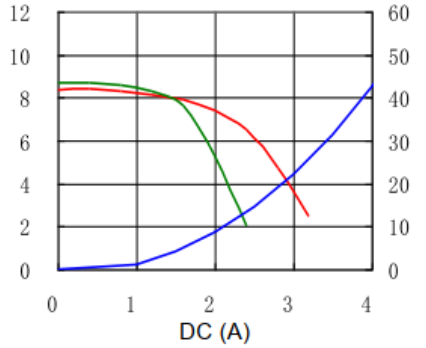
3. CDRH6D38NP-6R2NC



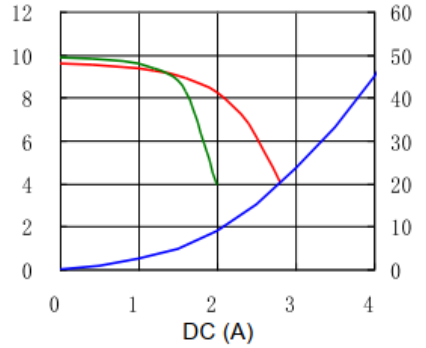
4. CDRH6D38NP-7R4NC



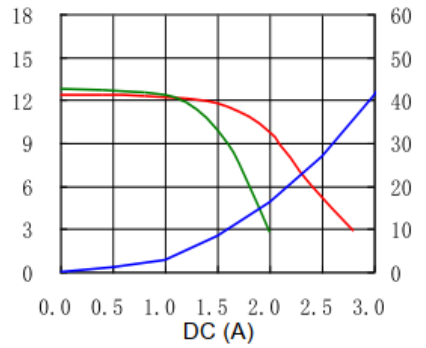
5. CDRH6D38NP-8R7NC



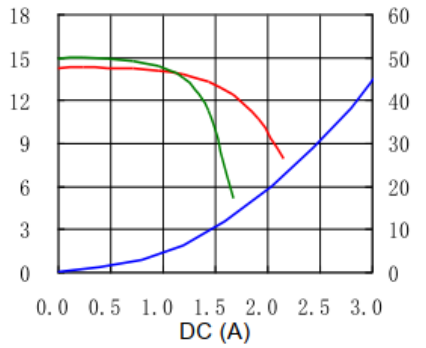
6. CDRH6D38NP-100NC



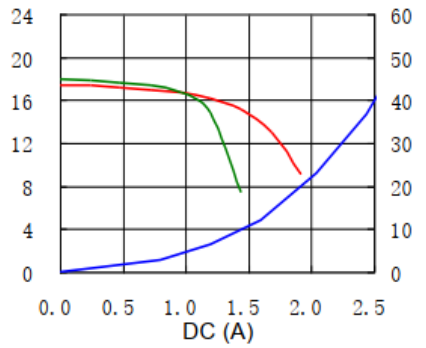
7. CDRH6D38NP-120NC



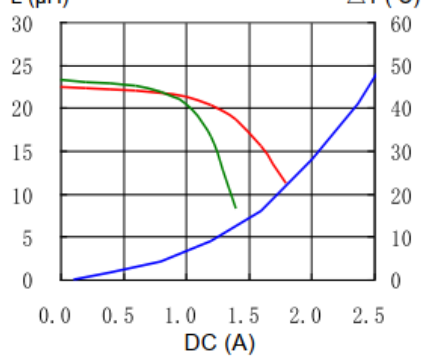
8. CDRH6D38NP-150NC



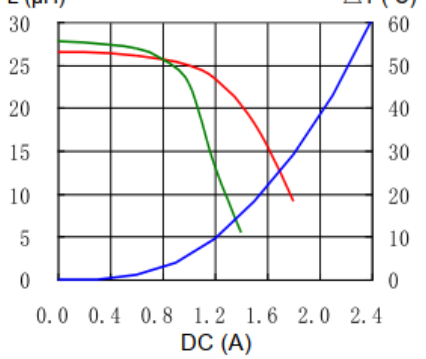
9. CDRH6D38NP-180NC



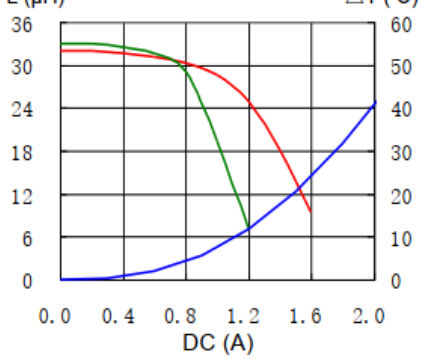
10. CDRH6D38NP-220NC



11. CDRH6D38NP-270NC



12. CDRH6D38NP-330NC



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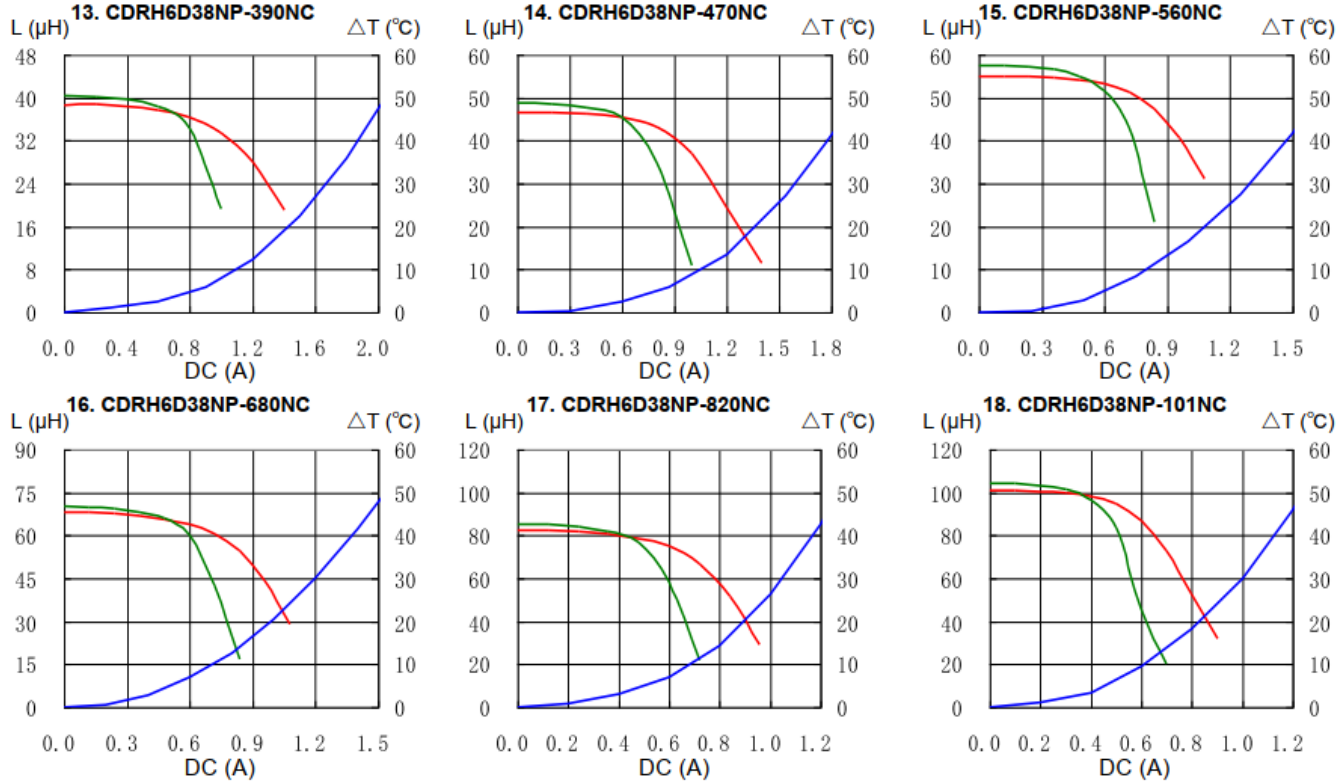
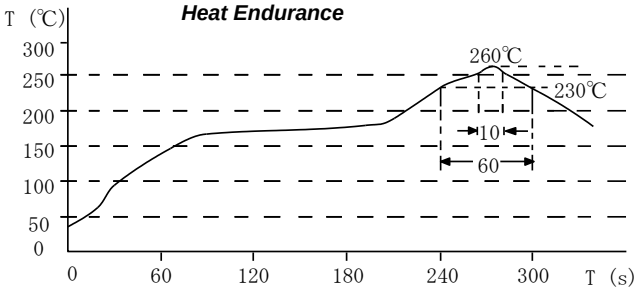
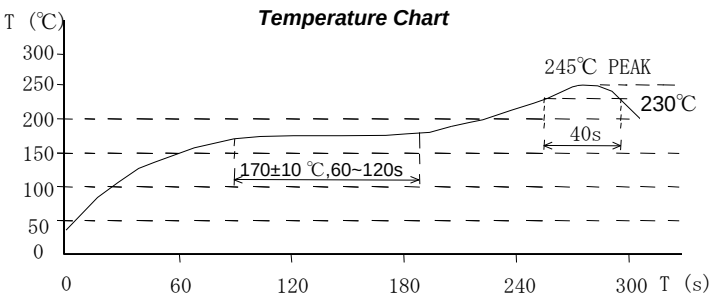
Saturation Current & Temperature Rise Graph

L (20℃) L (100℃) △T



Solder Reflow Condition





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