SMD Power Inductor

CDRH6D28

Description

- Ferrite drum core construction.
- Magnetically shielded.
- L × W × H:7.0 × 7.0 × 3.0 mm Max.
- Product weight: 0.5 g(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.

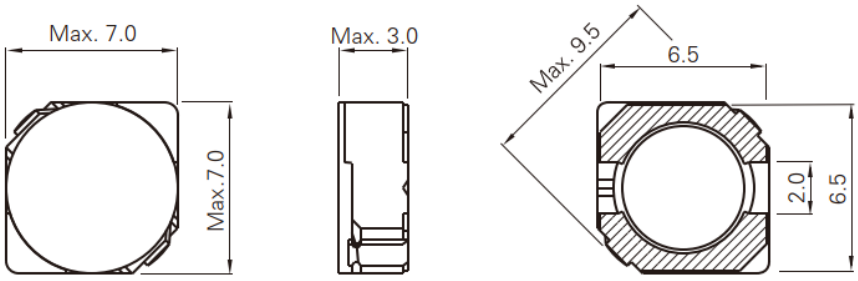
Packaging

- Carrier tape and reel packaging
- 13"diameter reel
- 1,500pcs per reel

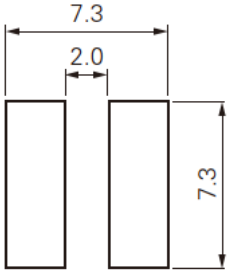
Applications

- Ideally used in MP3, PDA ,HDD,DSC/DVC, Notebook PC etc as DC-DC converter inductors.

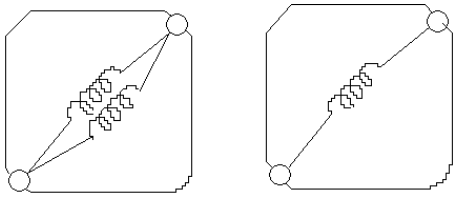
Dimension - [mm]



Land patterns - [mm]



Schematics



(3.0μH～6.0μH) (7.3μH～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
CDRH6D28NP-3R0NC	3.0 ± 30%	24.0 (18.0)	3.00 (3.60)	(4.80)
CDRH6D28NP-3R9NC	3.9 ± 30%	27.0 (20.0)	2.60 (3.10)	(4.40)
CDRH6D28NP-5R0NC	5.0 ± 30%	31.0 (23.0)	2.40 (2.90)	(4.10)
CDRH6D28NP-6R0NC	6.0 ± 30%	35.0 (26.0)	2.25 (2.62)	(4.00)
CDRH6D28NP-7R3NC	7.3 ± 30%	54.0 (40.0)	2.10 (2.30)	(3.20)
CDRH6D28NP-8R6NC	8.6 ± 30%	58.0 (43.0)	1.85 (2.18)	(2.95)
CDRH6D28NP-100NC	10 ± 30%	65.0 (48.0)	1.70 (2.10)	(2.60)
CDRH6D28NP-120NC	12 ± 30%	70.0 (52.0)	1.55 (1.80)	(2.50)
CDRH6D28NP-150NC	15 ± 30%	84.0 (62.0)	1.40 (1.60)	(2.35)
CDRH6D28NP-180NC	18 ± 30%	95.0 (70.0)	1.32 (1.56)	(1.92)
CDRH6D28NP-220NC	22 ± 30%	128 (95.0)	1.20 (1.30)	(1.85)
CDRH6D28NP-270NC	27 ± 30%	142 (105)	1.05 (1.23)	(1.80)
CDRH6D28NP-330NC	33 ± 30%	165 (122)	0.97 (1.15)	(1.65)
CDRH6D28NP-390NC	39 ± 30%	210 (156)	0.86 (1.02)	(1.59)
CDRH6D28NP-470NC	47 ± 30%	238 (176)	0.80 (0.89)	(1.45)
CDRH6D28NP-560NC	56 ± 30%	277 (205)	0.73 (0.87)	(1.32)
CDRH6D28NP-680NC	68 ± 30%	304 (225)	0.65 (0.79)	(1.28)
CDRH6D28NP-820NC	82 ± 30%	390 (290)	0.60 (0.70)	(1.15)
CDRH6D28NP-101NC	100 ± 30%	535 (397)	0.54 (0.63)	(0.90)

※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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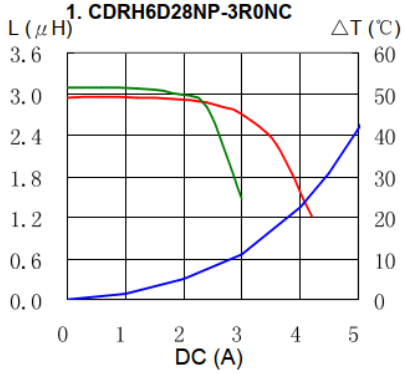
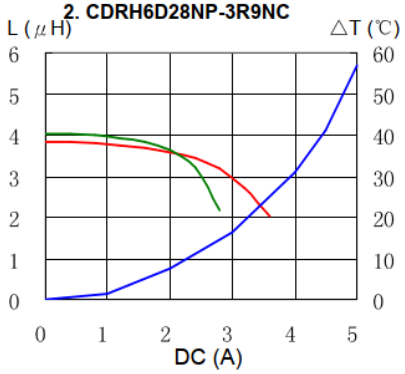
Saturation Current & Temperature Rise Graph

L (20℃) L (100℃) △T

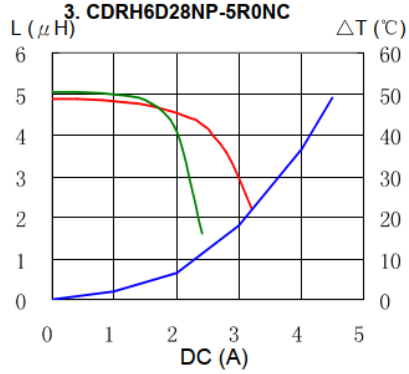
1. CDRH6D28NP-3R0NC



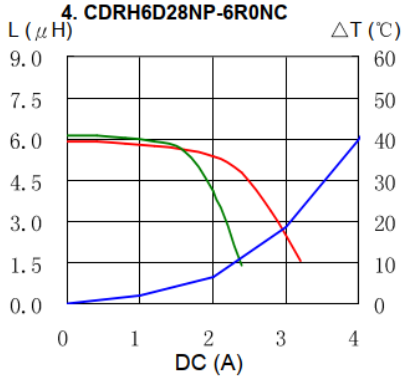
2. CDRH6D28NP-3R9NC



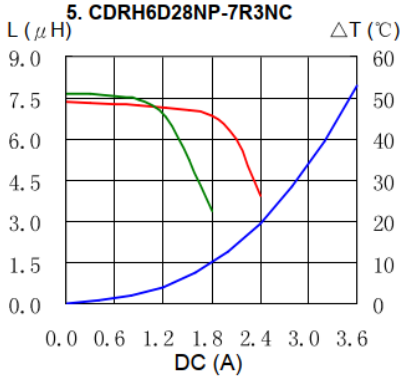
3. CDRH6D28NP-5R0NC



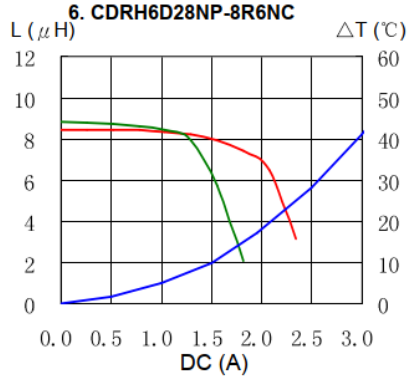
4. CDRH6D28NP-6R0NC



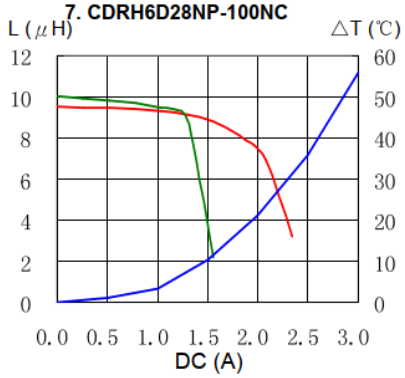
5. CDRH6D28NP-7R3NC



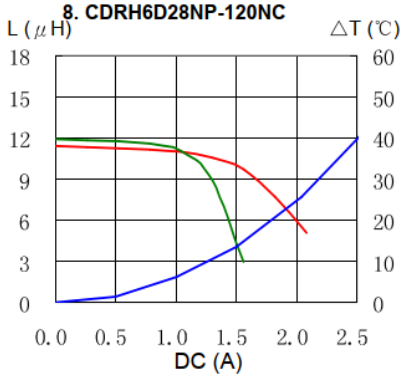
6. CDRH6D28NP-8R6NC



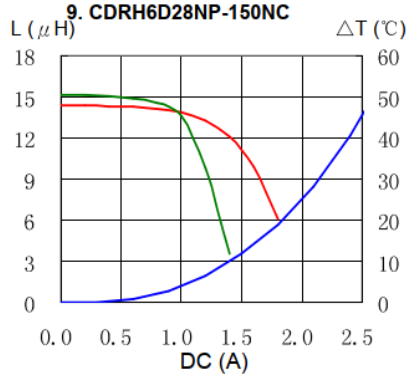
7. CDRH6D28NP-100NC



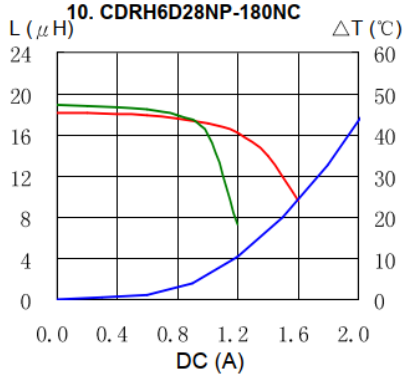
8. CDRH6D28NP-120NC



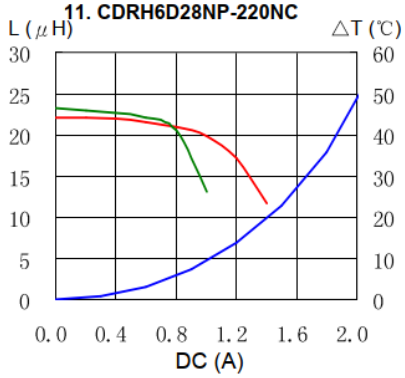
9. CDRH6D28NP-150NC



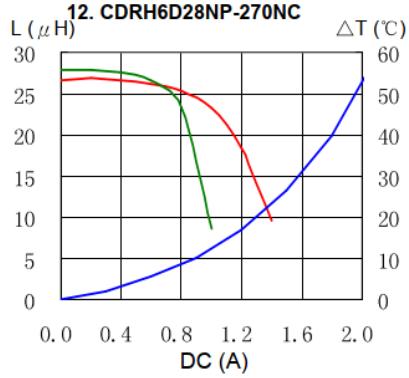
10. CDRH6D28NP-180NC



11. CDRH6D28NP-220NC



12. CDRH6D28NP-270NC



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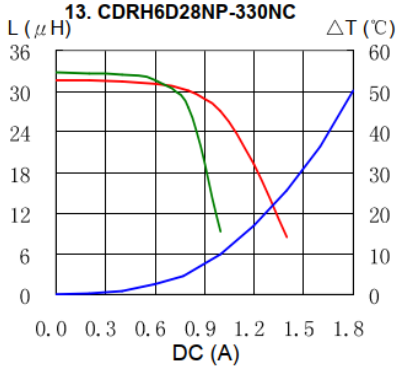
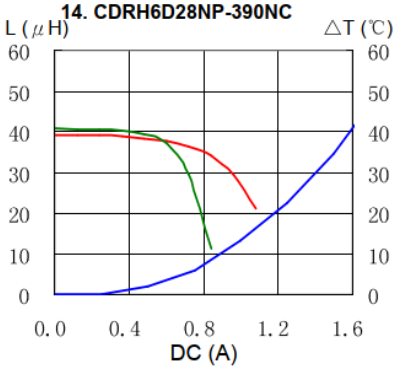
Saturation Current & Temperature Rise Graph

L (20℃) L (100℃) △T

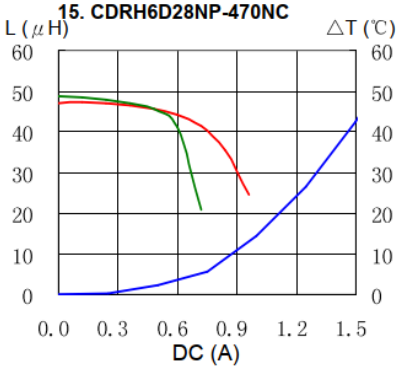
13. CDRH6D28NP-330NC



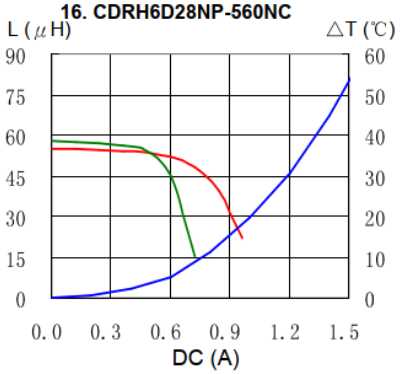
14. CDRH6D28NP-390NC



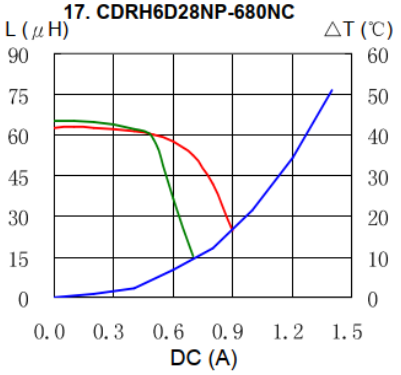
15. CDRH6D28NP-470NC



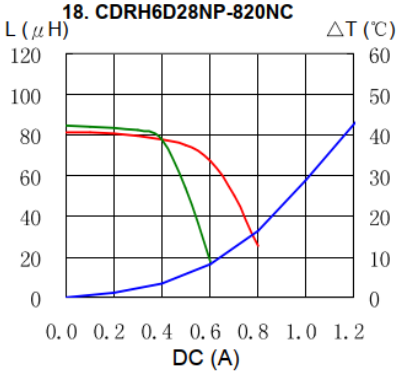
16. CDRH6D28NP-560NC



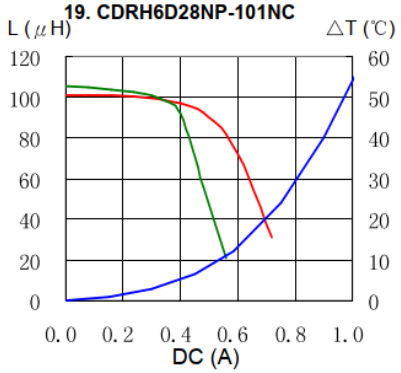
17. CDRH6D28NP-680NC



18. CDRH6D28NP-820NC



19. CDRH6D28NP-101NC



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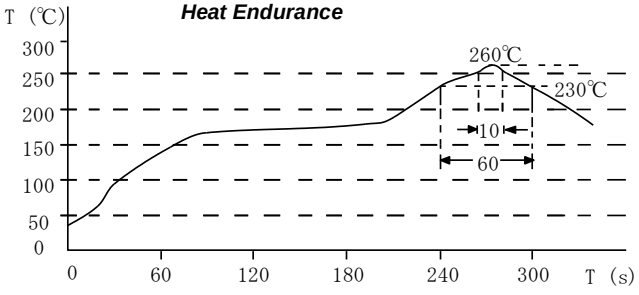
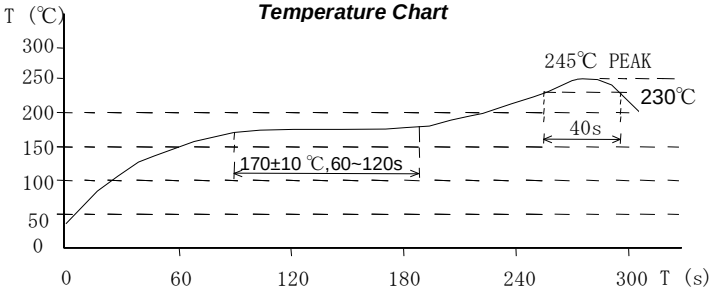
Solder Reflow Condition





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