SMD Power Inductor

CDRH104R

Description

- Ferrite drum core construction.
- Magnetically shielded.
- L × W × H:10.5 × 10.3 × 4.0mm Max.
- Product weight: 1.5g(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.

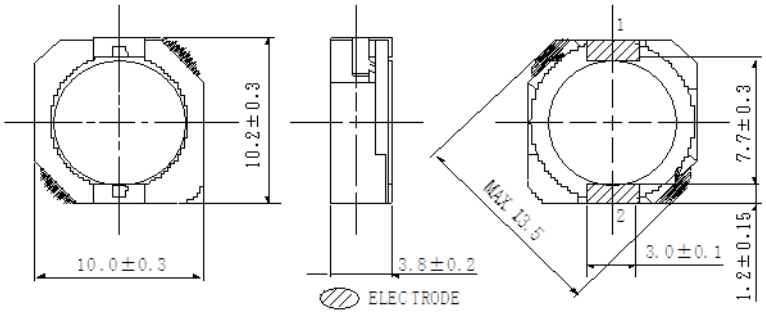
Packaging

- Carrier tape and reel packaging.
- 13"diameter reel.
- 1000pcs per reel.

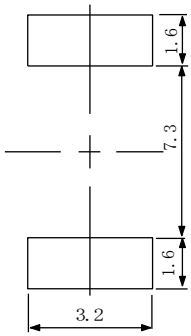
Applications

- Ideally used in Notebook PC, LCD TV,DVD, Game machine, STB ,Projector etc as DC-DC converter inductors.

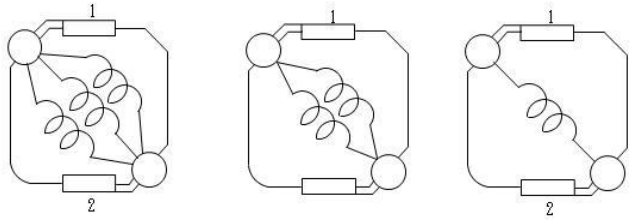
Dimension - [mm]



Land patterns - [mm]



Schematics



(1.5μH～5.2μH, 10μH) (7.0μH、12μH～33μH) (39μH～330μH)

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RoHS

Electrical Characteristics

PART NO.	STAMP	INDUCTANCE [WITHIN] ※1	D.C.R. (mΩ) [MAX.] (TYP.) (at 20℃)	SATURATION CURRENT (A) MAX. (TYP.) ※2	TEMPERATURE RISE CURRENT (A) ※3
CDRH104RNP-1R5NC	1R5	1.5μH±30%	8.10 (6.00)	10.0(12.5)	8.50
CDRH104RNP-2R5NC	2R5	2.5μH±30%	10.5(7.80)	7.90(9.90)	7.70
CDRH104RNP-3R8NC	3R8	3.8μH±30%	13.0(9.60)	7.00(8.80)	7.40
CDRH104RNP-5R2NC	5R2	5.2μH±30%	22.0(16.0)	5.60(7.00)	6.00
CDRH104RNP-7R0NC	7R0	7.0μH±30%	27.0(20.0)	5.25(6.60)	5.30
CDRH104RNP-100NC	100	10μH±30%	35.0(26.0)	4.48(5.60)	4.50
CDRH104RNP-120NC	120	12μH±30%	46.0(34.0)	4.00(5.00)	3.80
CDRH104RNP-150NC	150	15μH±30%	50.0(37.0)	3.50(4.40)	3.70
CDRH104RNP-180NC	180	18μH±30%	69.0(51.0)	3.25(4.10)	3.10
CDRH104RNP-220NC	220	22μH±30%	73.0(54.0)	2.85(3.60)	2.80
CDRH104RNP-270NC	270	27μH±30%	88.0(65.0)	2.60(3.28)	2.70
CDRH104RNP-330NC	330	33μH±30%	93.0(69.0)	2.30(2.90)	2.60
CDRH104RNP-390NC	390	39μH±30%	127(94.0)	2.10(2.62)	2.40
CDRH104RNP-470NC	470	47μH±30%	128(95.0)	1.95(2.44)	2.30
CDRH104RNP-560NC	560	56μH±30%	188(139)	1.74(2.18)	1.75
CDRH104RNP-680NC	680	68μH±30%	213(158)	1.66(2.08)	1.68
CDRH104RNP-820NC	820	82μH±30%	283(218)	1.50(1.88)	1.48
CDRH104RNP-101NC	101	100μH±30%	304(225)	1.33(1.66)	1.42
CDRH104RNP-121NC	121	120μH±30%	375(278)	1.25(1.56)	1.20
CDRH104RNP-151NC	151	150μH±30%	506(375)	1.12(1.40)	1.15
CDRH104RNP-181NC	181	180μH±30%	568(421)	0.99(1.24)	1.00
CDRH104RNP-221NC	221	220μH±30%	756(560)	0.95(1.19)	0.88
CDRH104RNP-271NC	271	270μH±30%	853(632)	0.85(1.06)	0.68
CDRH104RNP-331NC	331	330μH±30%	1,090(810)	0.74(0.92)	0.66

※1 Inductance measuring condition: at 100kHz.

※2 The saturation current: This indicates the value of DC current when the inductance decreases to 65% of it's initial value.

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

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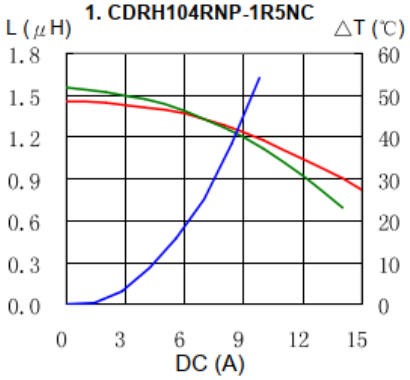
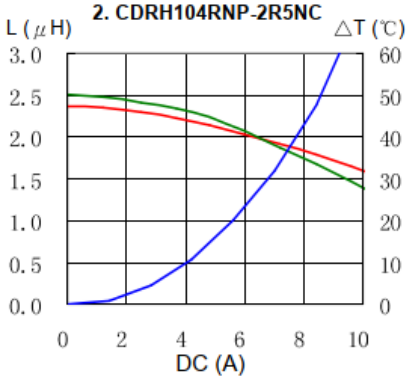
Saturation Current & Temperature Rise Graph

L (20℃) L (105℃) △T

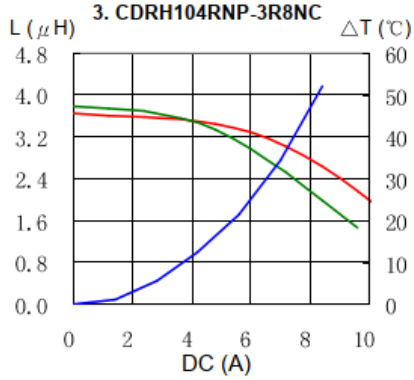
1. CDRH104RNP-1R5NC



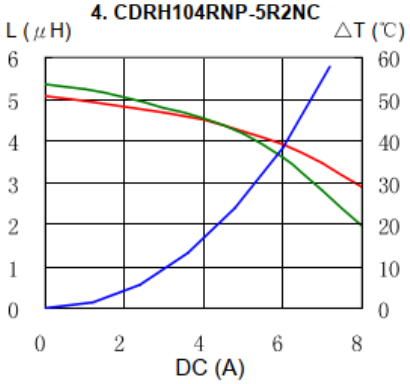
2. CDRH104RNP-2R5NC



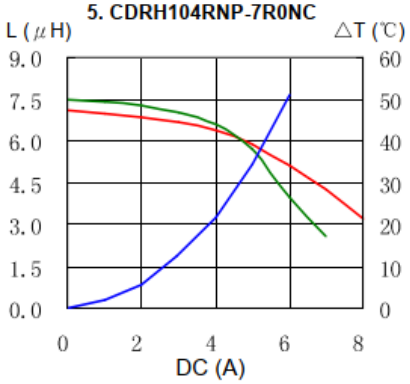
3. CDRH104RNP-3R8NC



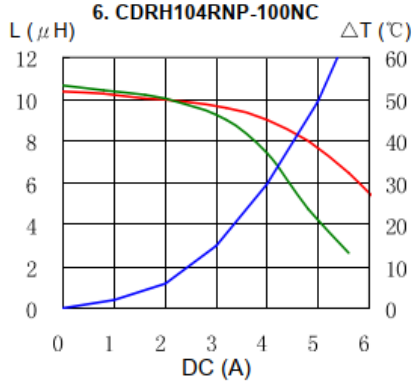
4. CDRH104RNP-5R2NC



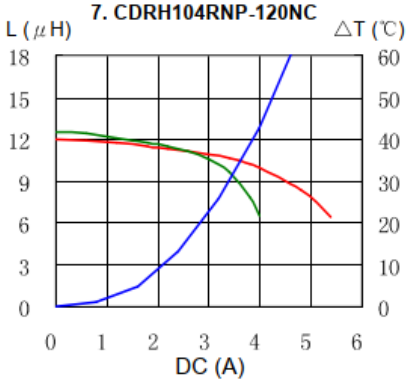
5. CDRH104RNP-7R0NC



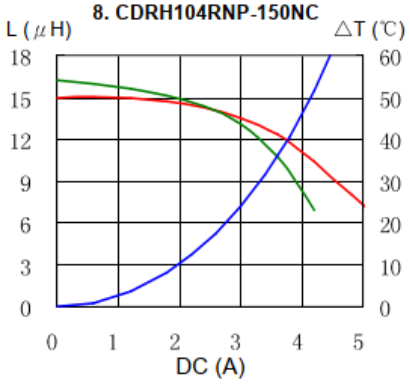
6. CDRH104RNP-100NC



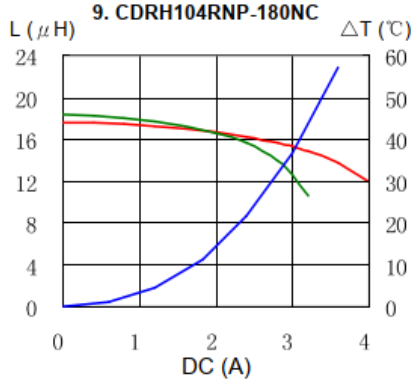
7. CDRH104RNP-120NC



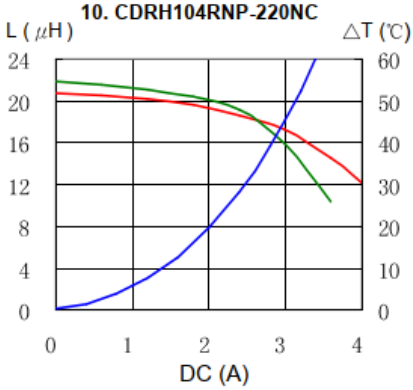
8. CDRH104RNP-150NC



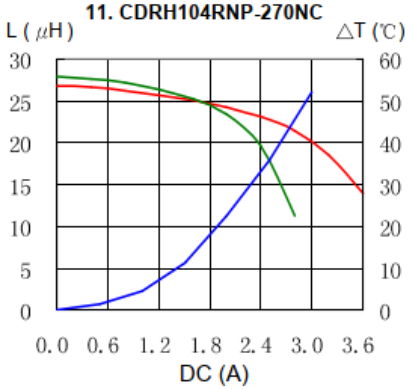
9. CDRH104RNP-180NC



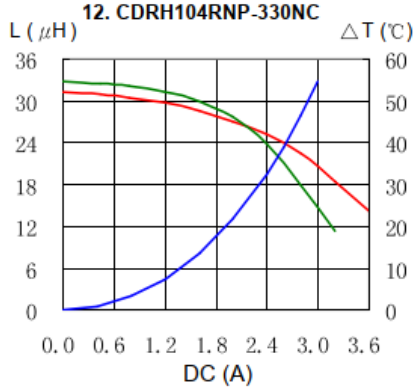
10. CDRH104RNP-220NC



11. CDRH104RNP-270NC



12. CDRH104RNP-330NC



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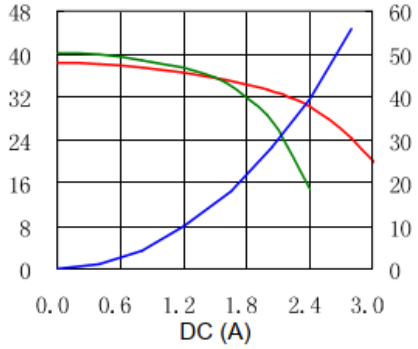
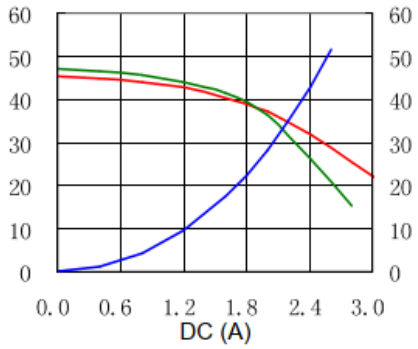
Saturation Current & Temperature Rise Graph L (20℃) L (100℃) △T

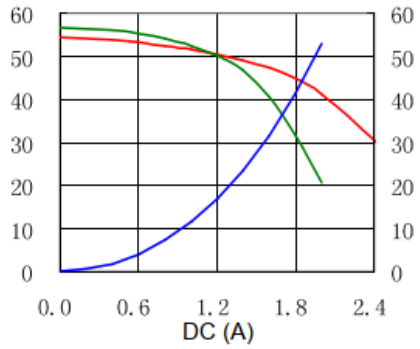
13. CDRH104RNP-390NC



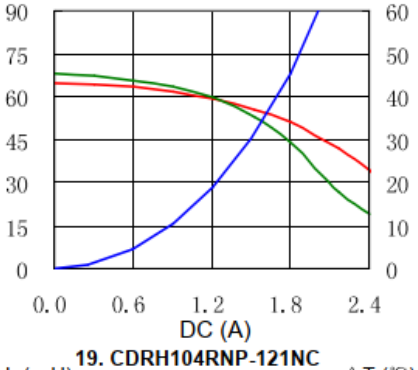
14. CDRH104RNP-470NC



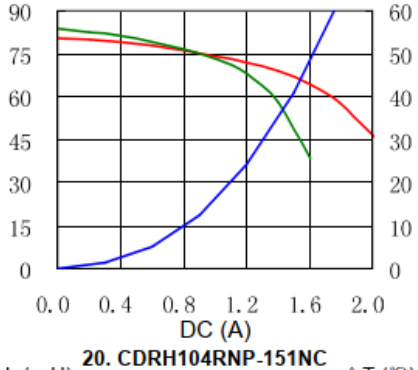
15. CDRH104RNP-560NC



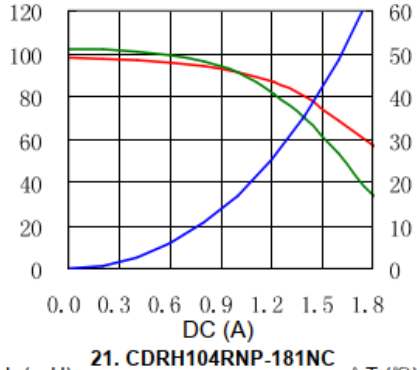
16. CDRH104RNP-680NC



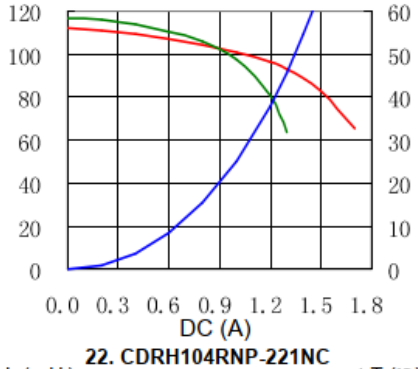
17. CDRH104RNP-820NC



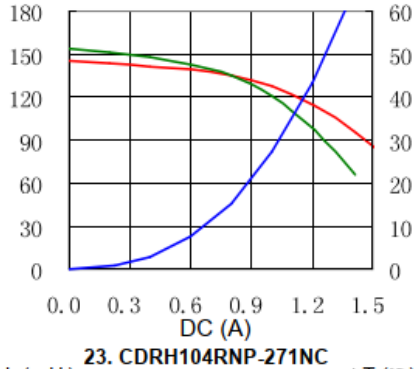
18. CDRH104RNP-101NC



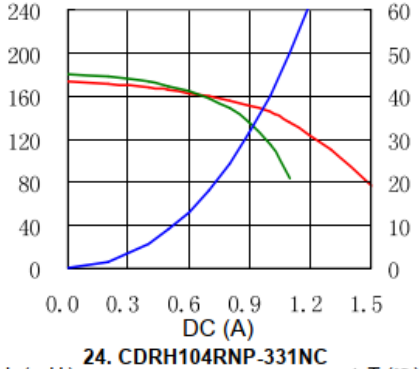
19. CDRH104RNP-121NC



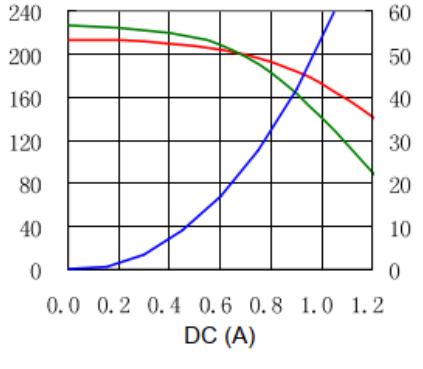
20. CDRH104RNP-151NC



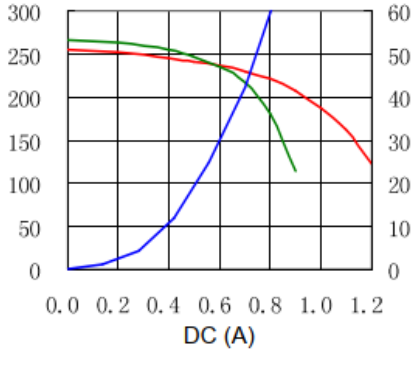
21. CDRH104RNP-181NC



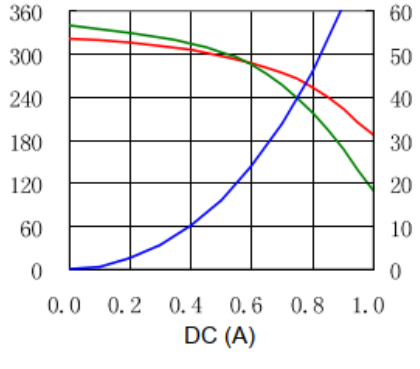
22. CDRH104RNP-221NC



23. CDRH104RNP-271NC



24. CDRH104RNP-331NC



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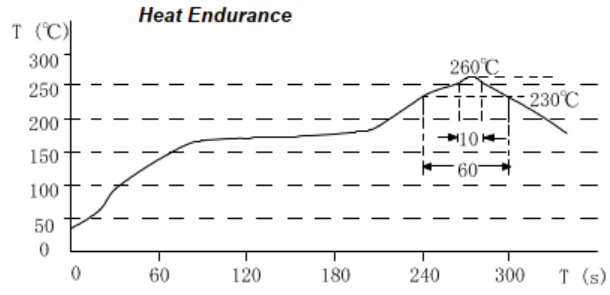
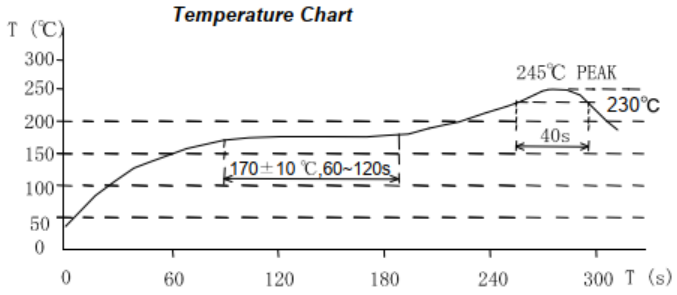
Solder Reflow Condition





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