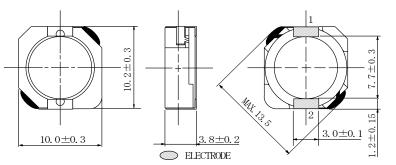
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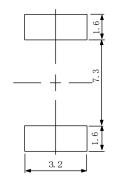


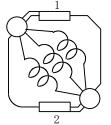


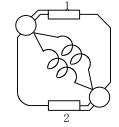
Dimension - [mm]

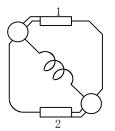


Land pattern and Schematics - [mm]









(1.5 μ H \sim 5.2 μ H, 10 μ H) (7.0 μ H \sim 12 μ H \sim 33 μ H) (39 μ H \sim 330 μ H)

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

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Electrical Characteristics

PART NO.	STAMP	INDUCTANCE [WITHIN] ※1	D.C.R. (mΩ) [MAX.] (TYP.) (at 20°C)	SATURATION CURRENT (A) MAX. (TYP.) **2	TEMPERATURE RISE CURRENT (A) ※3
CDRH104RNP-1R5NC	1R5	1. 5 μ H \pm 30%	8.1 (6.0)	10.0(12.5)	8. 50
CDRH104RNP-2R5NC	2R5	2.5 μ H \pm 30%	10.5(7.8)	7. 90 (9. 90)	7. 70
CDRH104RNP-3R8NC	3R8	$3.8 \mu \text{ H} \pm 30\%$	13.0(9.6)	7.00(8.80)	7. 40
CDRH104RNP-5R2NC	5R2	5. $2 \mu \text{ H} \pm 30\%$	22 (16)	5.60(7.00)	6. 00
CDRH104RNP-7RONC	7R0	7.0 μ H \pm 30%	27 (20)	5. 25 (6. 60)	5. 30
CDRH104RNP-100NC	100	$10 \mu\mathrm{H} \pm 30\%$	35 (26)	4. 48 (5. 60)	4.50
CDRH104RNP-120NC	120	$12 \mu\mathrm{H} \pm 30\%$	46 (34)	4. 00 (5. 00)	3. 80
CDRH104RNP-150NC	150	$15 \mu\mathrm{H} \pm 30\%$	50 (37)	3. 50 (4. 40)	3. 70
CDRH104RNP-180NC	180	$18 \mu\mathrm{H} \pm 30\%$	69 (51)	3. 25 (4. 10)	3. 10
CDRH104RNP-220NC	220	$22 \mu\mathrm{H} \pm 30\%$	73 (54)	2.85(3.60)	2. 80
CDRH104RNP-270NC	270	$27 \mu\mathrm{H} \pm 30\%$	88 (65)	2.60(3.28)	2. 70
CDRH104RNP-330NC	330	$33 \mu\mathrm{H} \pm 30\%$	93 (69)	2. 30 (2. 90)	2.60
CDRH104RNP-390NC	390	$39 \mu\mathrm{H} \pm 30\%$	127 (94)	2. 10 (2. 62)	2. 40
CDRH104RNP-470NC	470	$47 \mu\mathrm{H}\!\pm\!30\%$	128 (95)	1. 95 (2. 44)	2. 30
CDRH104RNP-560NC	560	$56 \mu\mathrm{H} \pm 30\%$	188 (139)	1.74(2.18)	1. 75
CDRH104RNP-680NC	680	$68 \mu\mathrm{H} \pm 30\%$	213 (158)	1.66(2.08)	1. 68
CDRH104RNP-820NC	820	$82 \mu\mathrm{H} \pm 30\%$	283 (218)	1.50(1.88)	1. 48
CDRH104RNP-101NC	101	$100 \mu\mathrm{H} \pm 30\%$	304 (225)	1. 33 (1. 66)	1. 42
CDRH104RNP-121NC	121	$120\mu\mathrm{H}\!\pm\!30\%$	375 (278)	1. 25 (1. 56)	1. 20
CDRH104RNP-151NC	151	$150 \mu\mathrm{H} \pm 30\%$	506 (375)	1. 12 (1. 40)	1. 15
CDRH104RNP-181NC	181	$180 \mu\mathrm{H}\!\pm\!30\%$	568 (421)	0. 99 (1. 24)	1.00
CDRH104RNP-221NC	221	$220~\mu~\text{H}\pm30\%$	756 (560)	0.95(1.19)	0.88
CDRH104RNP-271NC	271	$270~\mu~\text{H}\pm30\%$	853 (632)	0.85(1.06)	0.68
CDRH104RNP-331NC	331	$330 \mu\text{H} \pm 30\%$	1090 (810)	0.74(0.92)	0.66

X1 Measuring frequency at 100kHz

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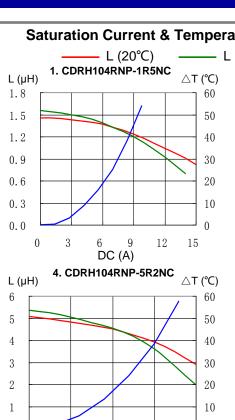
X2 Saturation current: this indicates the value of D.C. current when the inductance becomes 35% lower than its initial value. (Ta=20°C)

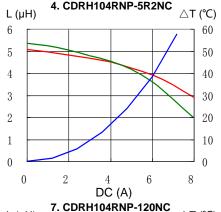
 $[\]times 3$ Temperature rise current: the actual value of D.C. current when the temperature of coil becomes $\triangle T=40^{\circ}C$ (Ta $=20^{\circ}C$).

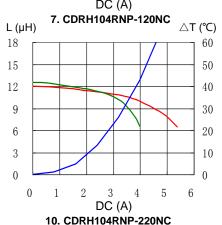
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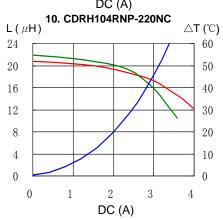


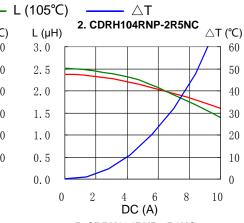


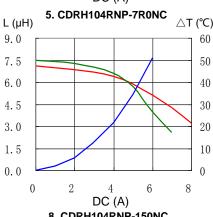


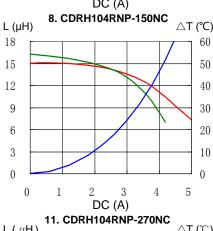


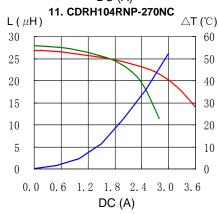




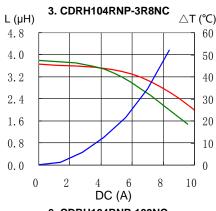


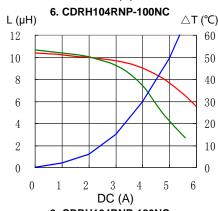


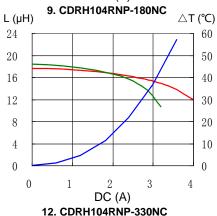


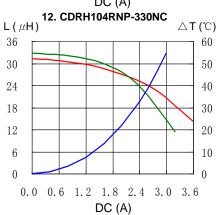


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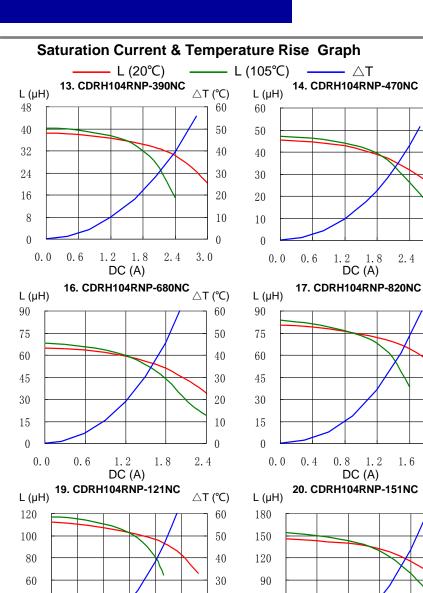


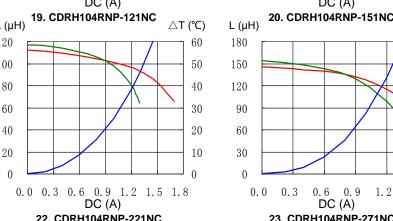


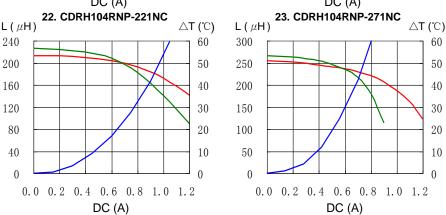
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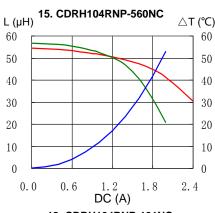
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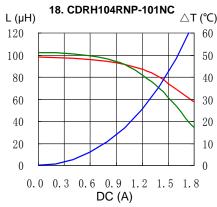
△T (°C)

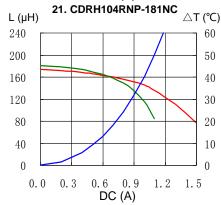
3.0

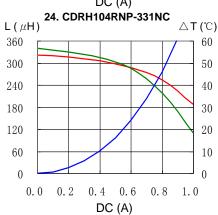
△T (°C)

2.0

△T (°C)







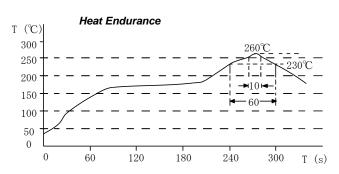
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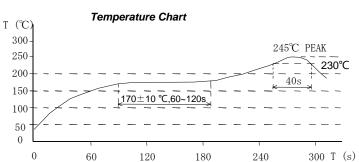
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Solder Reflow Condition





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