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With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

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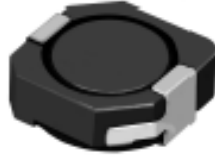
Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China



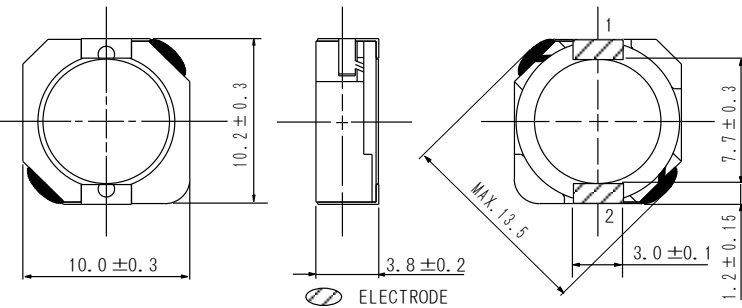
SMD Power Inductor CDRH104R



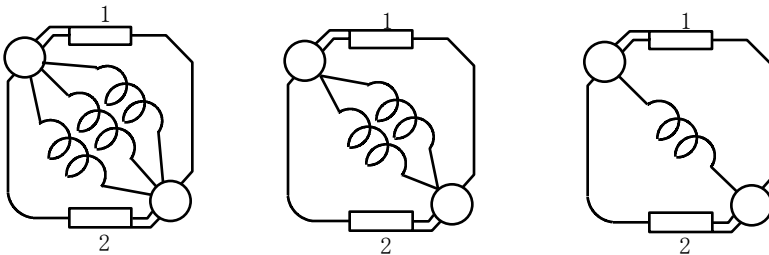
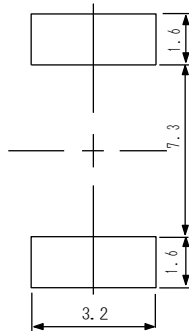
**Halogen
Free**



Dimension - [mm]



Land pattern and Schematics - [mm]



($1.5\mu\text{H} \sim 5.2\mu\text{H}, 10\mu\text{H}$) ($7.0\mu\text{H}, 12\mu\text{H} \sim 33\mu\text{H}$) ($39\mu\text{H} \sim 330\mu\text{H}$)

Description

- Ferrite drum core construction.
- Magnetically shielded.
- L × W × H: $10.5 \times 10.3 \times 4.0$ mm Max.
- Product weight: 1.5g (Ref.)
- Moisture Sensitivity Level: 1
- RoHS compliance.
- Halogen Free available.

Environmental Data

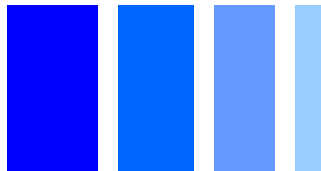
- Operating temperature range: $-40^\circ\text{C} \sim +100^\circ\text{C}$ (including coil's self temperature rise)
- Storage temperature range: $-40^\circ\text{C} \sim +100^\circ\text{C}$
- Solder reflow temperature: 260°C peak.

Packaging

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

Applications

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



Electrical Characteristics

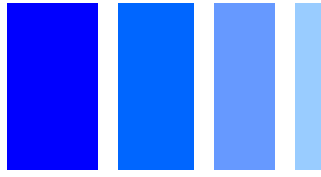
PART NO.	STAMP	INDUCTANCE [WITHIN] ※1	D. C. R. (mΩ) [MAX.] (TYP.) (at 20°C)	SATURATION CURRENT (A) MAX. (TYP.) ※2	TEMPERATURE RISE CURRENT (A) ※3
CDRH104RNP-1R5NC	1R5	1.5 μH ± 30%	8.1 (6.0)	10.0 (12.5)	8.50
CDRH104RNP-2R5NC	2R5	2.5 μH ± 30%	10.5 (7.8)	7.90 (9.90)	7.70
CDRH104RNP-3R8NC	3R8	3.8 μH ± 30%	13.0 (9.6)	7.00 (8.80)	7.40
CDRH104RNP-5R2NC	5R2	5.2 μH ± 30%	22 (16)	5.60 (7.00)	6.00
CDRH104RNP-7R0NC	7R0	7.0 μH ± 30%	27 (20)	5.25 (6.60)	5.30
CDRH104RNP-100NC	100	10 μH ± 30%	35 (26)	4.48 (5.60)	4.50
CDRH104RNP-120NC	120	12 μH ± 30%	46 (34)	4.00 (5.00)	3.80
CDRH104RNP-150NC	150	15 μH ± 30%	50 (37)	3.50 (4.40)	3.70
CDRH104RNP-180NC	180	18 μH ± 30%	69 (51)	3.25 (4.10)	3.10
CDRH104RNP-220NC	220	22 μH ± 30%	73 (54)	2.85 (3.60)	2.80
CDRH104RNP-270NC	270	27 μH ± 30%	88 (65)	2.60 (3.28)	2.70
CDRH104RNP-330NC	330	33 μH ± 30%	93 (69)	2.30 (2.90)	2.60
CDRH104RNP-390NC	390	39 μH ± 30%	127 (94)	2.10 (2.62)	2.40
CDRH104RNP-470NC	470	47 μH ± 30%	128 (95)	1.95 (2.44)	2.30
CDRH104RNP-560NC	560	56 μH ± 30%	188 (139)	1.74 (2.18)	1.75
CDRH104RNP-680NC	680	68 μH ± 30%	213 (158)	1.66 (2.08)	1.68
CDRH104RNP-820NC	820	82 μH ± 30%	283 (218)	1.50 (1.88)	1.48
CDRH104RNP-101NC	101	100 μH ± 30%	304 (225)	1.33 (1.66)	1.42
CDRH104RNP-121NC	121	120 μH ± 30%	375 (278)	1.25 (1.56)	1.20
CDRH104RNP-151NC	151	150 μH ± 30%	506 (375)	1.12 (1.40)	1.15
CDRH104RNP-181NC	181	180 μH ± 30%	568 (421)	0.99 (1.24)	1.00
CDRH104RNP-221NC	221	220 μH ± 30%	756 (560)	0.95 (1.19)	0.88
CDRH104RNP-271NC	271	270 μH ± 30%	853 (632)	0.85 (1.06)	0.68
CDRH104RNP-331NC	331	330 μH ± 30%	1090 (810)	0.74 (0.92)	0.66

※1 Measuring frequency at 100kHz

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

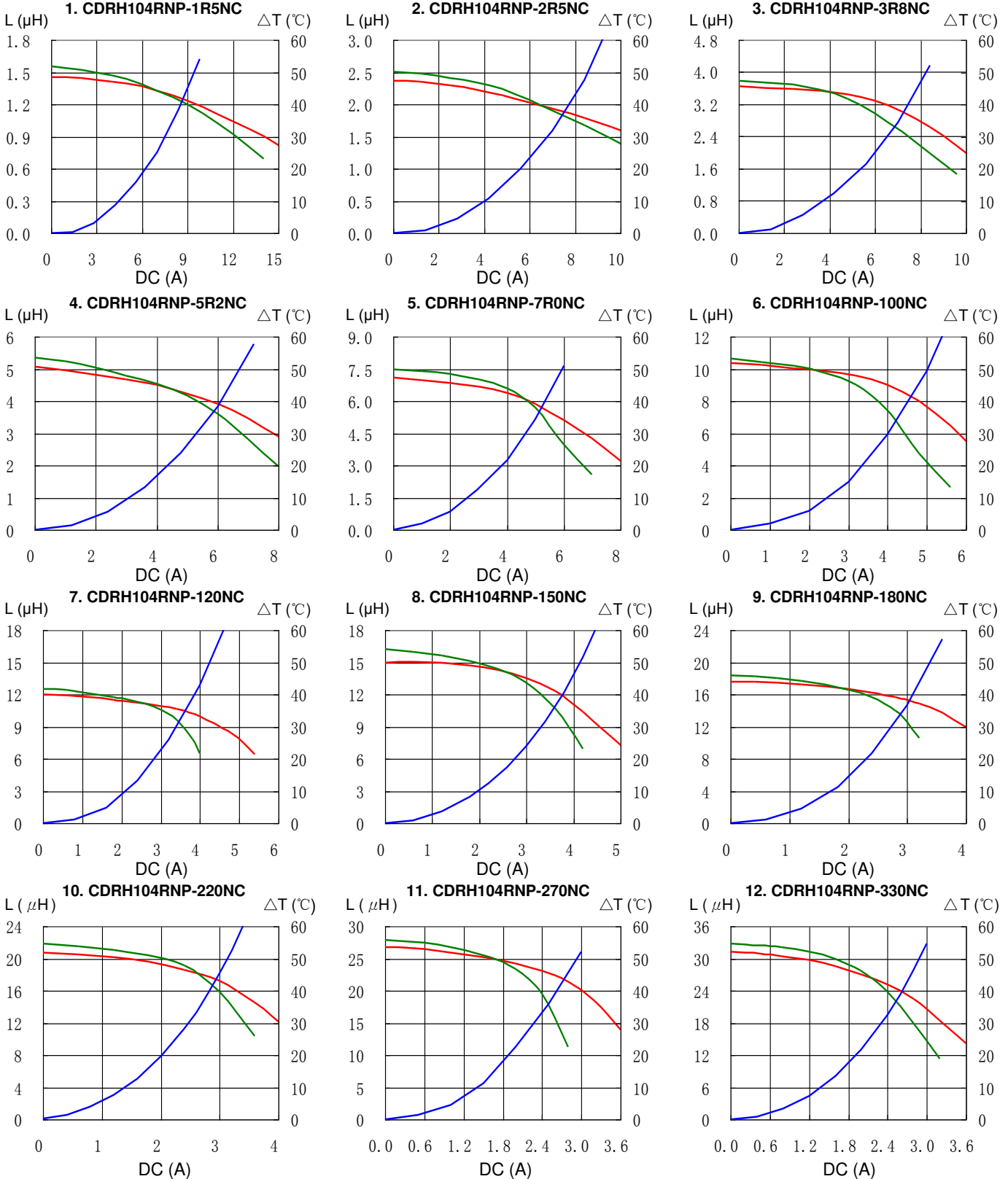
※3 Temperature rise current: the actual value of D.C. current when the temperature of coil becomes ΔT=40°C (Ta=20°C).

SMD Power Inductor CDRH104R



Saturation Current & Temperature Rise Graph

— L (20°C) — L (105°C) — ΔT

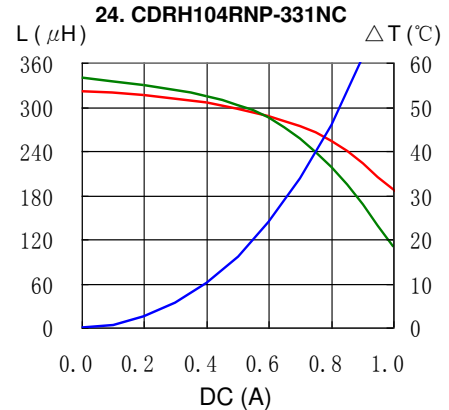
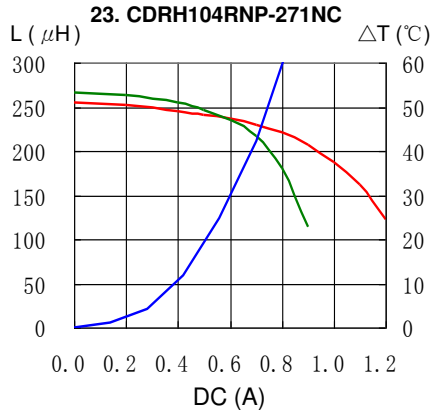
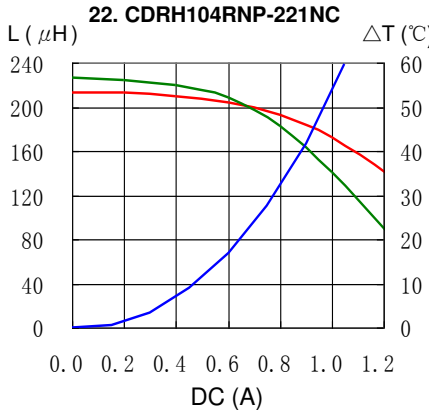
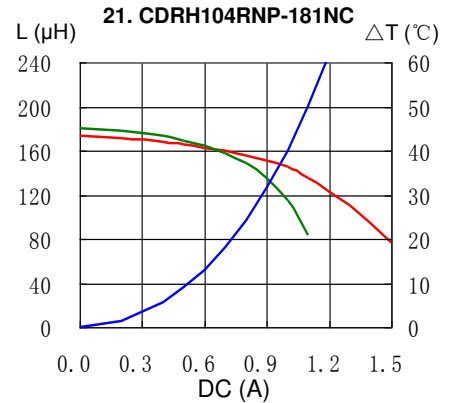
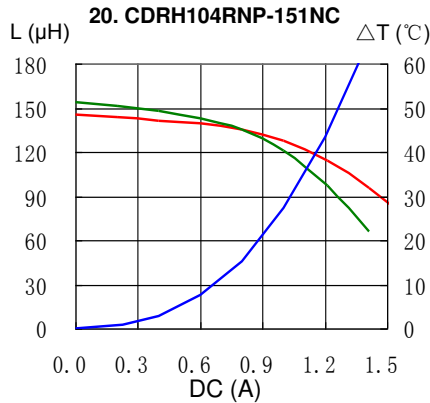
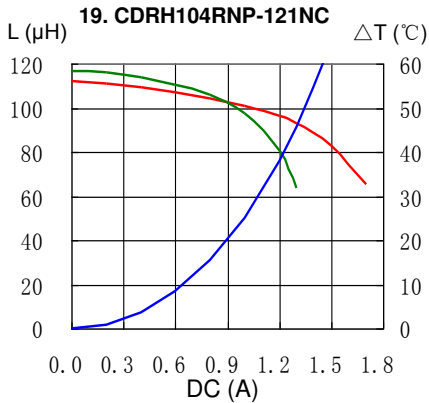
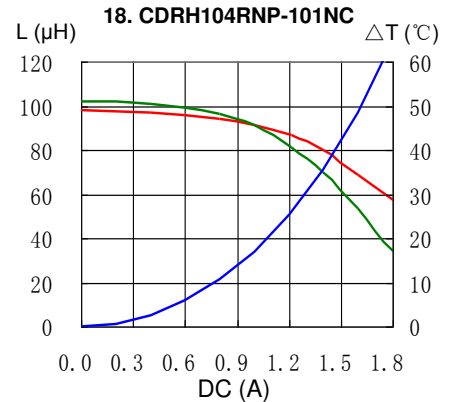
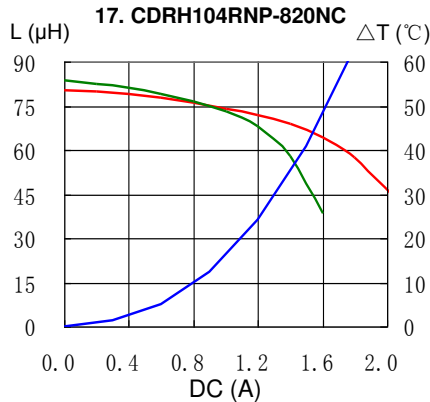
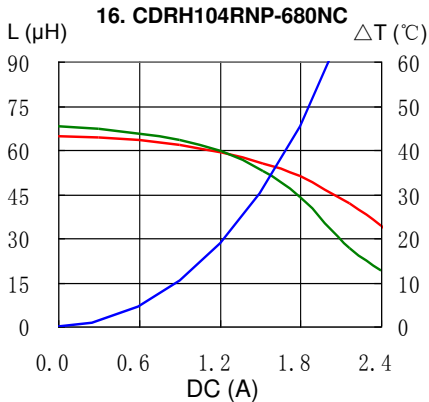
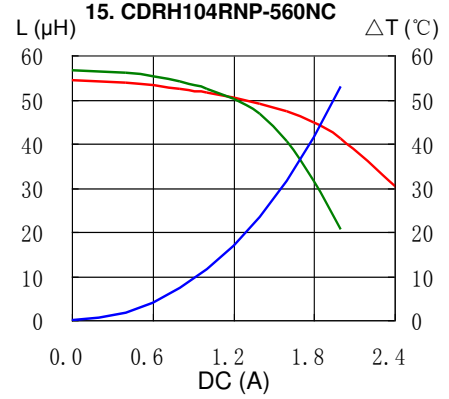
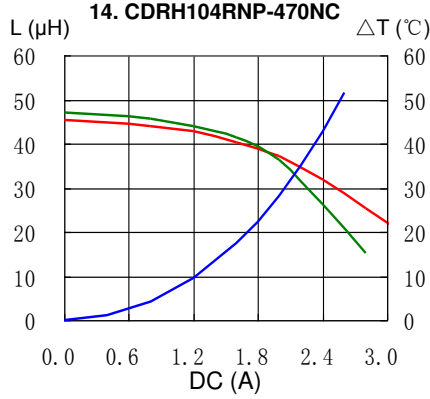
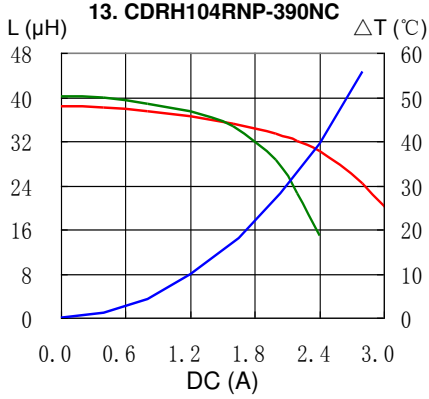


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Saturation Current & Temperature Rise Graph

— L (20°C) — L (105°C) — ΔT

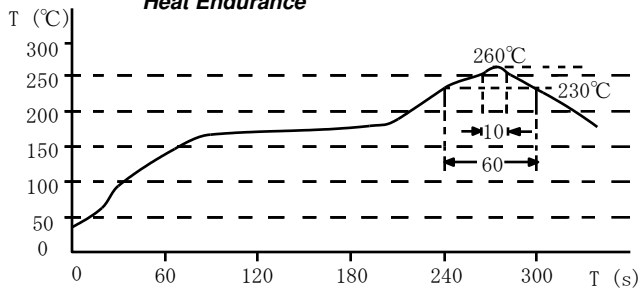


SMD Power Inductor CDRH104R

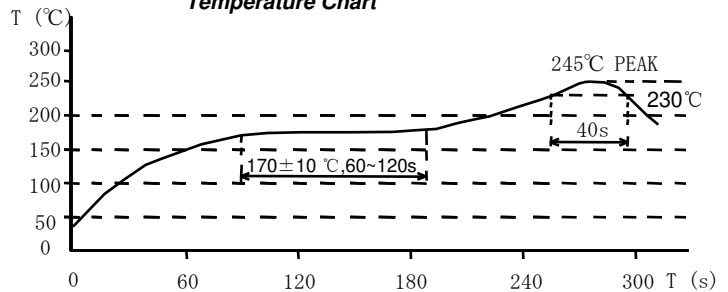


Solder Reflow Condition

Heat Endurance



Temperature Chart



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