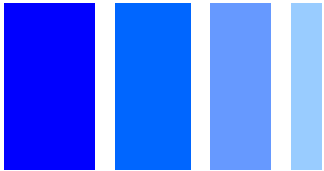
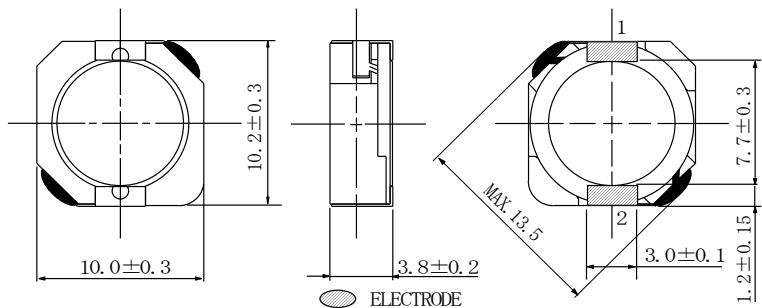


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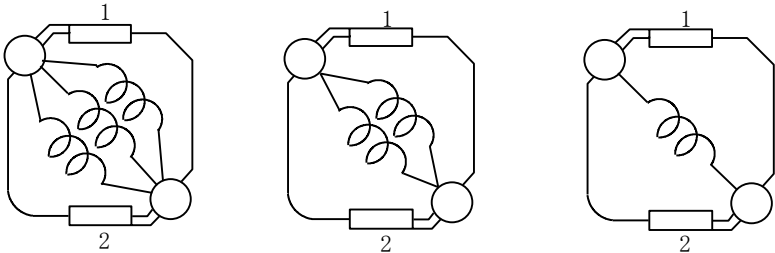
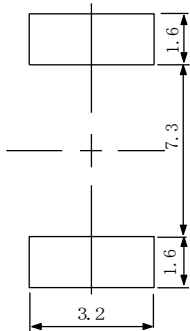
CDRH104R



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.
- $L \times W \times H$: $10.5 \times 10.3 \times 4.0$ mm Max.
- Product weight: 1.5g(Ref.)
- Moisture Sensitivity Level: 1
- RoHS compliance.

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.

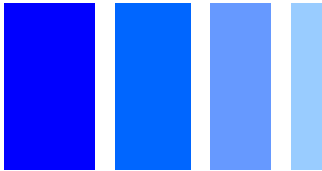
Packaging

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

Applications

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

SMD Power Inductor
CDRH104R



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±30%	8. 1 (6. 0)	10. 0(12. 5)	8. 50
CDRH104RNP-2R5NC	2R5	2. 5 μ H±30%	10. 5(7. 8)	7. 90(9. 90)	7. 70
CDRH104RNP-3R8NC	3R8	3. 8 μ H±30%	13. 0(9. 6)	7. 00(8. 80)	7. 40
CDRH104RNP-5R2NC	5R2	5. 2 μ H±30%	22 (16)	5. 60(7. 00)	6. 00
CDRH104RNP-7R0NC	7R0	7. 0 μ H±30%	27 (20)	5. 25(6. 60)	5. 30
CDRH104RNP-100NC	100	10 μ H±30%	35 (26)	4. 48(5. 60)	4. 50
CDRH104RNP-120NC	120	12 μ H±30%	46 (34)	4. 00(5. 00)	3. 80
CDRH104RNP-150NC	150	15 μ H±30%	50 (37)	3. 50(4. 40)	3. 70
CDRH104RNP-180NC	180	18 μ H±30%	69 (51)	3. 25(4. 10)	3. 10
CDRH104RNP-220NC	220	22 μ H±30%	73 (54)	2. 85(3. 60)	2. 80
CDRH104RNP-270NC	270	27 μ H±30%	88 (65)	2. 60(3. 28)	2. 70
CDRH104RNP-330NC	330	33 μ H±30%	93 (69)	2. 30(2. 90)	2. 60
CDRH104RNP-390NC	390	39 μ H±30%	127 (94)	2. 10(2. 62)	2. 40
CDRH104RNP-470NC	470	47 μ H±30%	128 (95)	1. 95(2. 44)	2. 30
CDRH104RNP-560NC	560	56 μ H±30%	188 (139)	1. 74(2. 18)	1. 75
CDRH104RNP-680NC	680	68 μ H±30%	213 (158)	1. 66(2. 08)	1. 68
CDRH104RNP-820NC	820	82 μ H±30%	283 (218)	1. 50(1. 88)	1. 48
CDRH104RNP-101NC	101	100 μ H±30%	304 (225)	1. 33(1. 66)	1. 42
CDRH104RNP-121NC	121	120 μ H±30%	375 (278)	1. 25(1. 56)	1. 20
CDRH104RNP-151NC	151	150 μ H±30%	506 (375)	1. 12(1. 40)	1. 15
CDRH104RNP-181NC	181	180 μ H±30%	568 (421)	0. 99(1. 24)	1. 00
CDRH104RNP-221NC	221	220 μ H±30%	756 (560)	0. 95(1. 19)	0. 88
CDRH104RNP-271NC	271	270 μ H±30%	853 (632)	0. 85(1. 06)	0. 68
CDRH104RNP-331NC	331	330 μ H±30%	1090 (810)	0. 74(0. 92)	0. 66

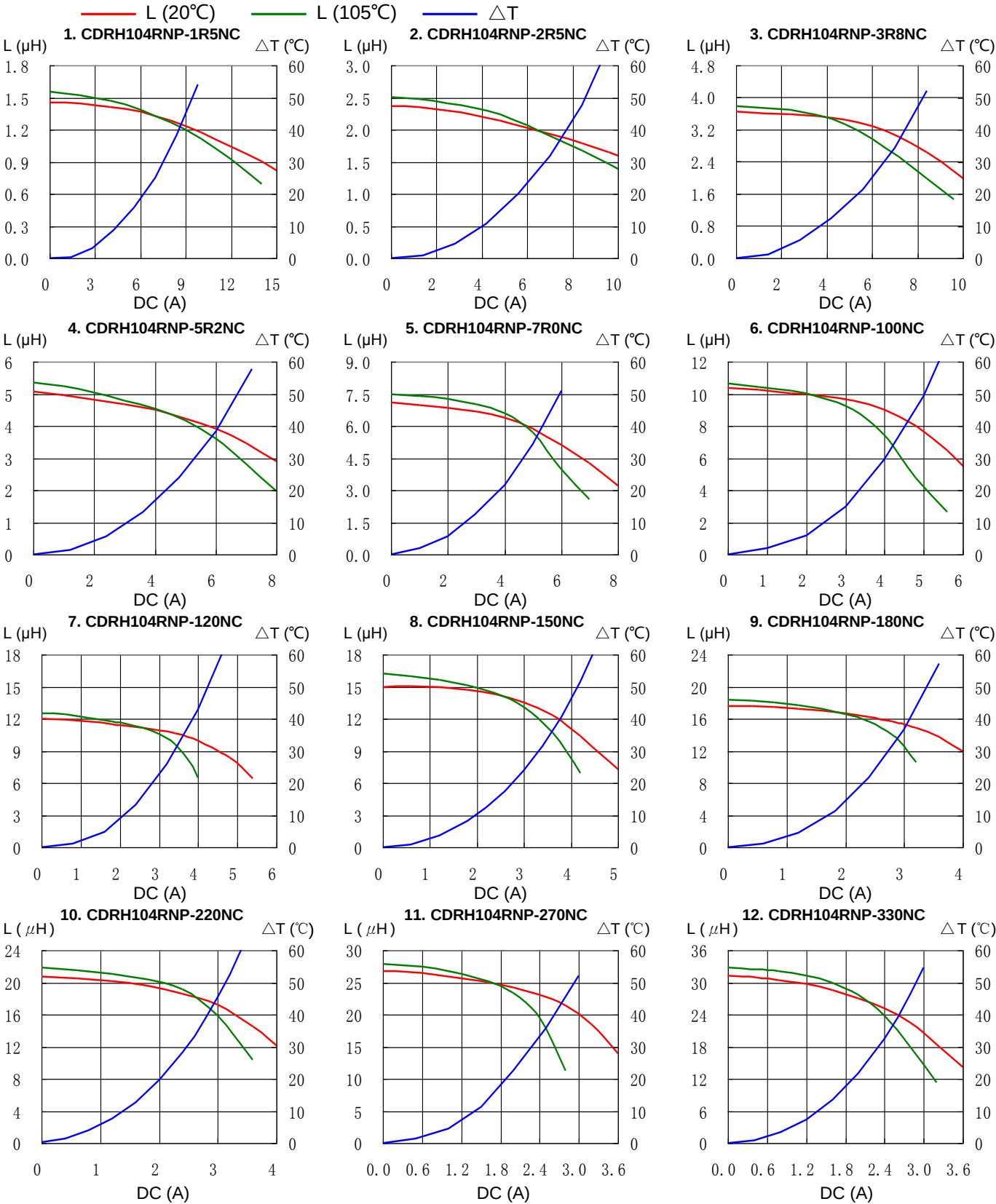
※1 Measuring frequency at 100kHz
※2 Saturation current: this indicates the value of D.C. current when the inductance becomes 35% lower than its initial value. (Ta=20°C)
※3 Temperature rise current: the actual value of D.C. current when the temperature of coil becomes ΔT=40°C (Ta=20°C).

SMD Power Inductor

CDRH104R



Saturation Current & Temperature Rise Graph

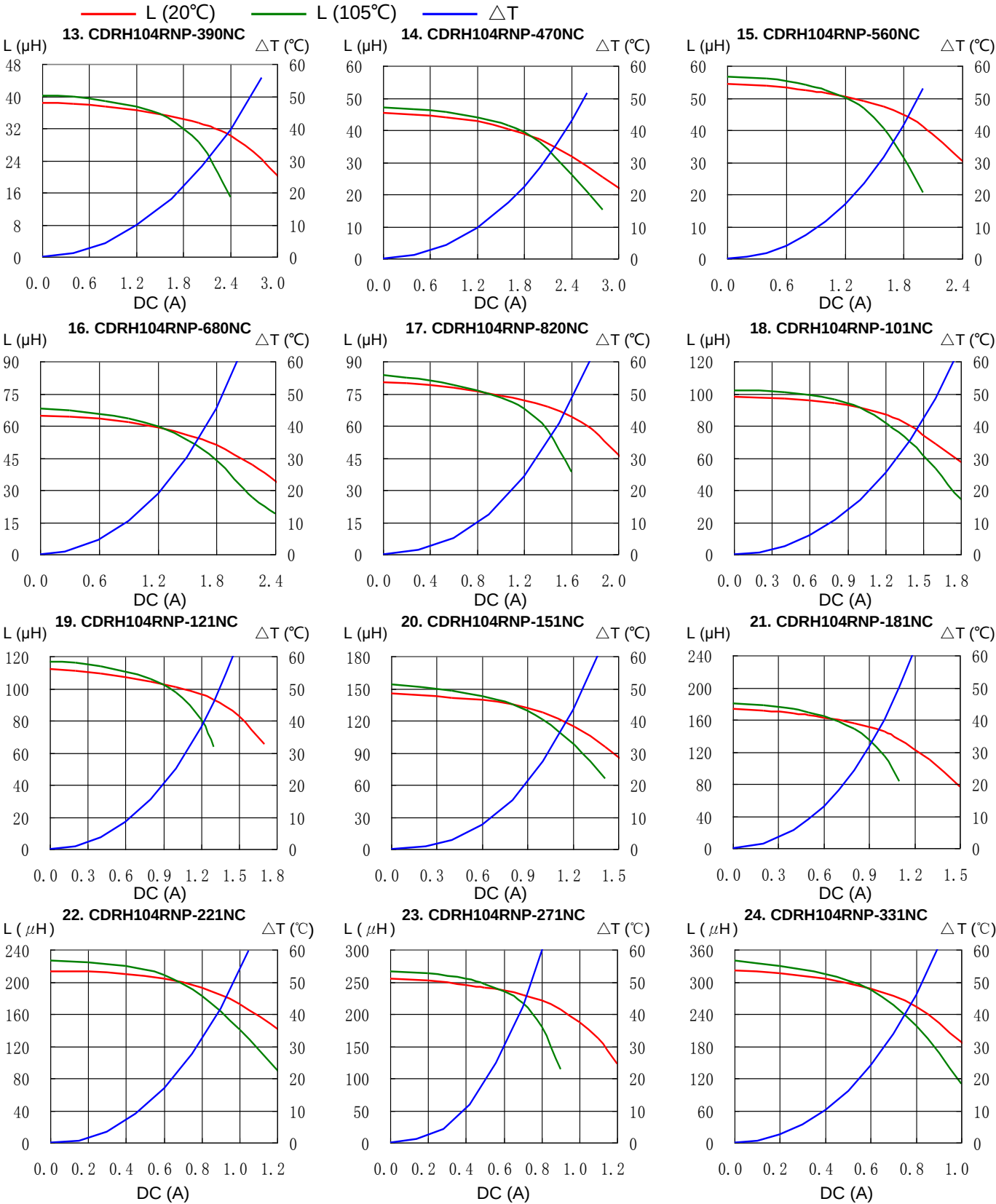


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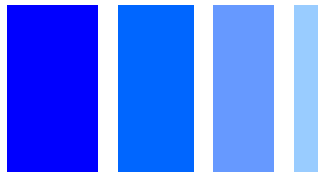
CDRH104R



Saturation Current & Temperature Rise Graph

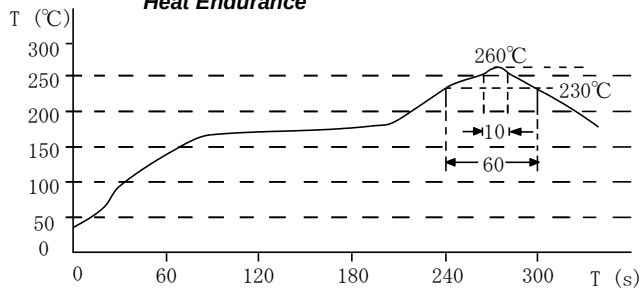


SMD Power Inductor CDRH104R

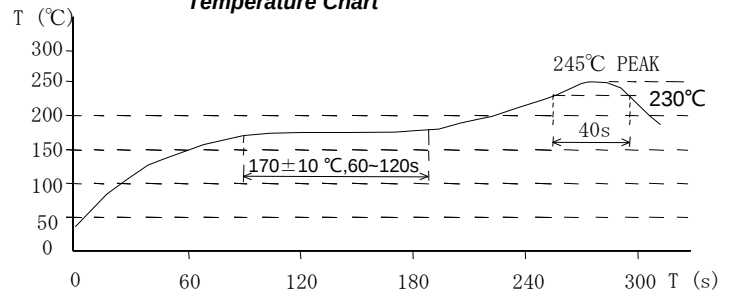


Solder Reflow Condition

Heat Endurance



Temperature Chart



Please refer to the sales offices on our website - <http://www.sumida.com>

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