

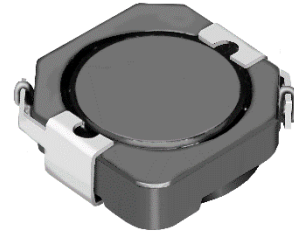
SMD Power Inductor

CDRH103R



Description

- Ferrite drum core construction.
- Magnetically shielded.
- L × W × H: 10.5 × 10.3 × 3.1mm Max.
- Product weight: 1.1g (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.

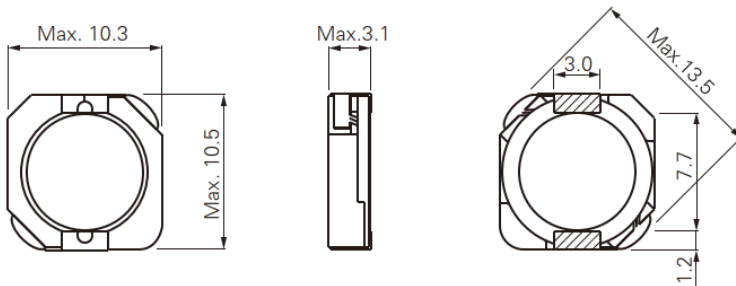
Packaging

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

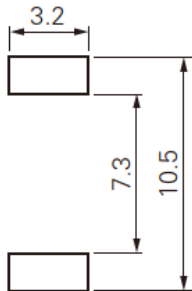
Applications

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

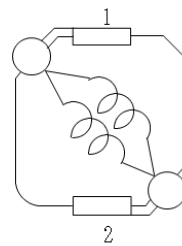
Dimension - [mm]



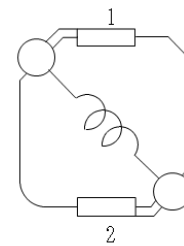
Land patterns - [mm]



Schematics



0.8µH ~ 15µH



22µH ~ 150µH

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Electrical Characteristics

Part Name	Inductance (μH) [within] ※1	D.C.R. (m Ω) Max. (Typ.) (at 20°C)	Saturation Current (A) Max. (Typ.) ※2	Temperature Rise Current (A) (Typ.) ※3
CDRH103RNP-0R8NC-B	0.8 ± 30%	5.70 (4.40)	11.2 (13.5)	(8.30)
CDRH103RNP-1R5NC-B	1.5 ± 30%	11.0 (8.50)	8.00 (9.60)	(5.80)
CDRH103RNP-2R2NC-B	2.2 ± 30%	16.9 (13.0)	6.70 (8.00)	(5.10)
CDRH103RNP-3R3NC-B	3.3 ± 30%	21.0 (16.0)	5.56 (6.80)	(4.70)
CDRH103RNP-4R7NC-B	4.7 ± 30%	30.0 (23.0)	4.65 (5.50)	(4.00)
CDRH103RNP-6R8NC-B	6.8 ± 30%	35.0 (27.0)	3.84 (4.60)	(3.60)
CDRH103RNP-8R2NC-B	8.2 ± 30%	50.0 (38.0)	3.54 (4.30)	(3.00)
CDRH103RNP-100NC-B	10 ± 30%	59.0 (45.0)	3.18 (3.80)	(2.80)
CDRH103RNP-150NC-B	15 ± 30%	91.0 (70.0)	2.60 (3.20)	(2.05)
CDRH103RNP-220NC-B	22 ± 30%	143 (110)	2.16 (2.60)	(1.60)
CDRH103RNP-330NC-B	33 ± 30%	202 (155)	1.74 (2.10)	(1.35)
CDRH103RNP-470NC-B	47 ± 30%	299 (230)	1.43 (1.70)	(1.20)
CDRH103RNP-560NC-B	56 ± 30%	325 (250)	1.36 (1.55)	(1.15)
CDRH103RNP-680NC-B	68 ± 30%	429 (330)	1.22 (1.40)	(0.95)
CDRH103RNP-820NC-B	82 ± 30%	494 (380)	1.14 (1.30)	(0.80)
CDRH103RNP-101NC-B	100 ± 30%	683 (525)	1.02 (1.15)	(0.70)
CDRH103RNP-121NC-B	120 ± 30%	754 (580)	0.89 (1.05)	(0.65)
CDRH103RNP-151NC-B	150 ± 30%	871 (670)	0.84 (1.00)	(0.51)

※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 initial value.

※3 The temperature rise: The value of DC current when the temperature rise is $\Delta T = 40^\circ\text{C}$ ($T_a = 20^\circ\text{C}$).

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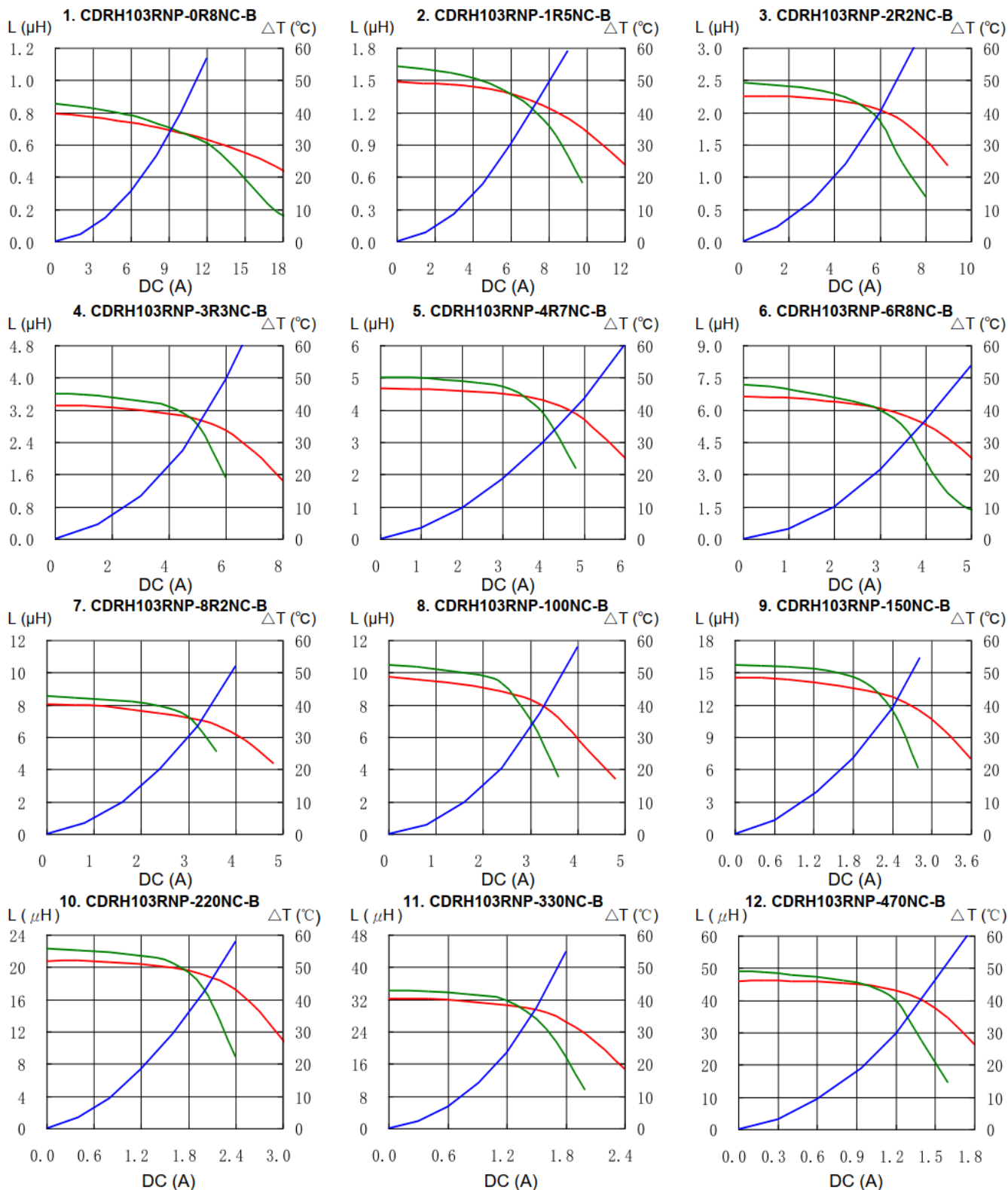
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Saturation Current & Temperature Rise Graph

— L (20°C) — L (105°C) — ΔT



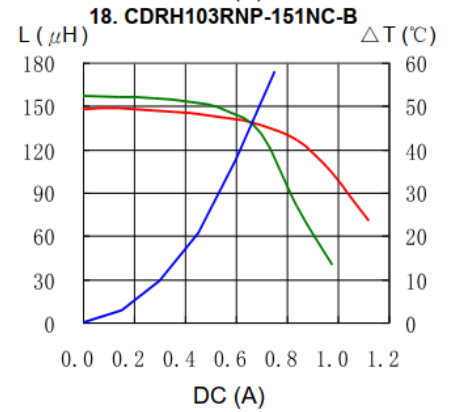
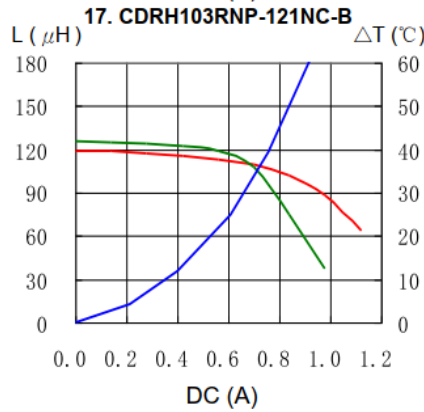
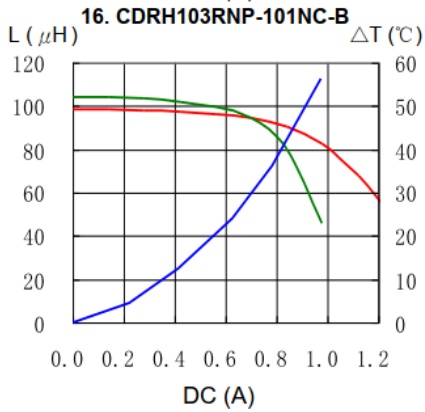
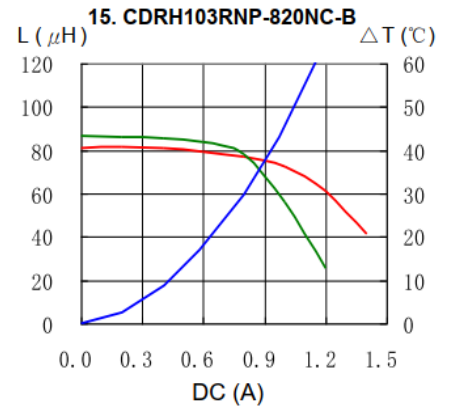
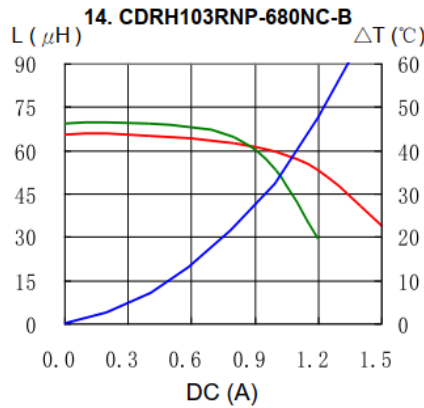
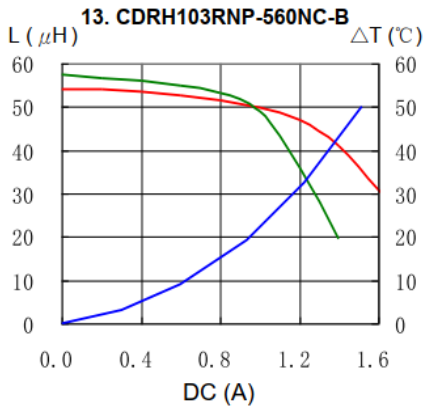
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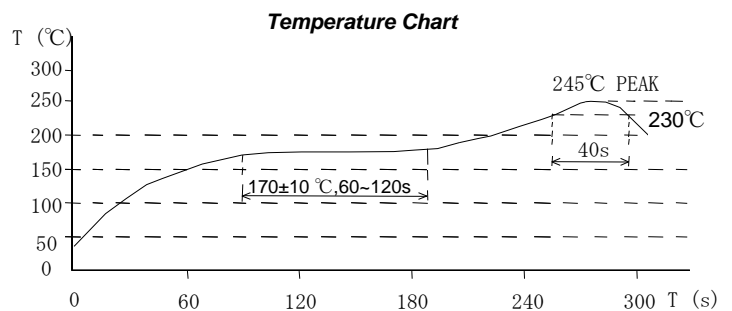
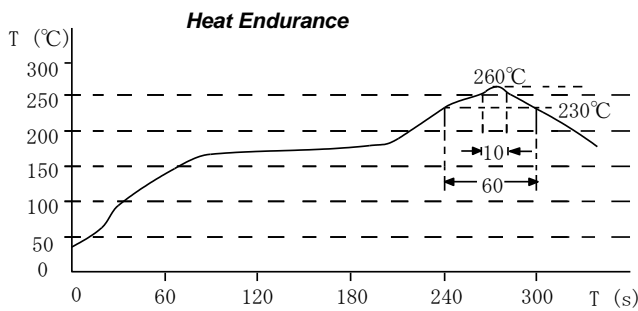
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Saturation Current & Temperature Rise Graph — L (20°C) — L (105°C) — ΔT



Solder Reflow Condition



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