



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

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.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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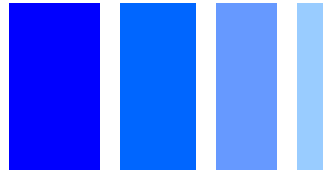
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SMD Power Inductor CDRH103R



Description

- Ferrite drum core construction.
- Magnetically shielded.
- L × W × H: 10.5 × 10.3 × 3.1 mm Max.
- Product weight: 1.0g (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.

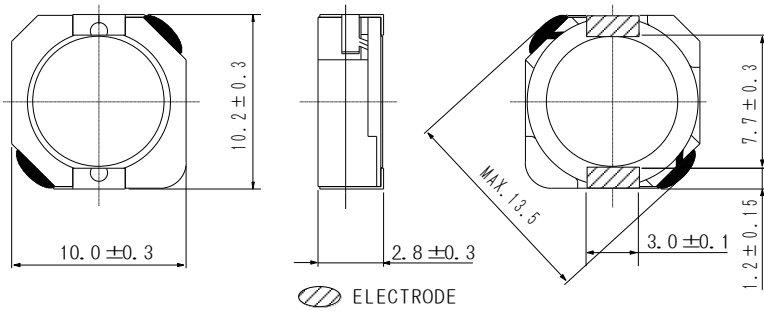
Packaging

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

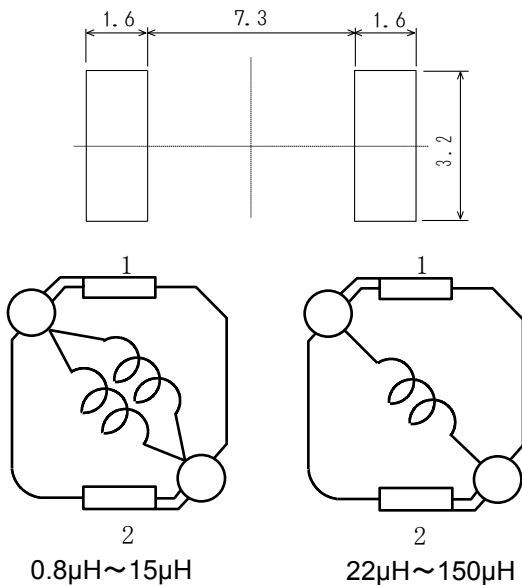
Applications

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

Dimension - [mm]



Land pattern and Schematics - [mm]



SMD Power Inductor CDRH103R



Electrical Characteristics

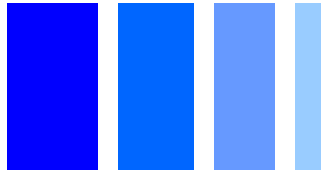
Part Name	Stamp	Inductance (μH) [within] ※1	D.C.R. (m Ω) Max. (Typ.) (at 20°C)	Saturation Current (A) ※2	Temperature Rise Current (A) ※3
CDRH103RNP-0R8NC-B	0R8	0.8 \pm 30%	5.7(4.4)	11.2	8.30
CDRH103RNP-1R5NC-B	1R5	1.5 \pm 30%	11.0(8.5)	8.0	5.80
CDRH103RNP-2R2NC-B	2R2	2.2 \pm 30%	16.9(13)	6.7	5.10
CDRH103RNP-3R3NC-B	3R3	3.3 \pm 30%	21.0(16)	5.56	4.70
CDRH103RNP-4R7NC-B	4R7	4.7 \pm 30%	30.0(23)	4.65	4.00
CDRH103RNP-6R8NC-B	6R8	6.8 \pm 30%	35.0(27)	3.84	3.60
CDRH103RNP-8R2NC-B	8R2	8.2 \pm 30%	50.0(38)	3.54	3.00
CDRH103RNP-100NC-B	100	10 \pm 30%	59.0(45)	3.18	2.80
CDRH103RNP-150NC-B	150	15 \pm 30%	91.0(70)	2.60	2.05
CDRH103RNP-220NC-B	220	22 \pm 30%	143(110)	2.16	1.60
CDRH103RNP-330NC-B	330	33 \pm 30%	202(155)	1.74	1.35
CDRH103RNP-470NC-B	470	47 \pm 30%	299(230)	1.43	1.20
CDRH103RNP-560NC-B	560	56 \pm 30%	325(250)	1.36	1.15
CDRH103RNP-680NC-B	680	68 \pm 30%	429(330)	1.22	0.95
CDRH103RNP-820NC-B	820	82 \pm 30%	494(380)	1.14	0.80
CDRH103RNP-101NC-B	101	100 \pm 30%	683(525)	1.02	0.70
CDRH103RNP-121NC-B	121	120 \pm 30%	754(580)	0.89	0.65
CDRH103RNP-151NC-B	151	150 \pm 30%	871(670)	0.84	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 nominal.

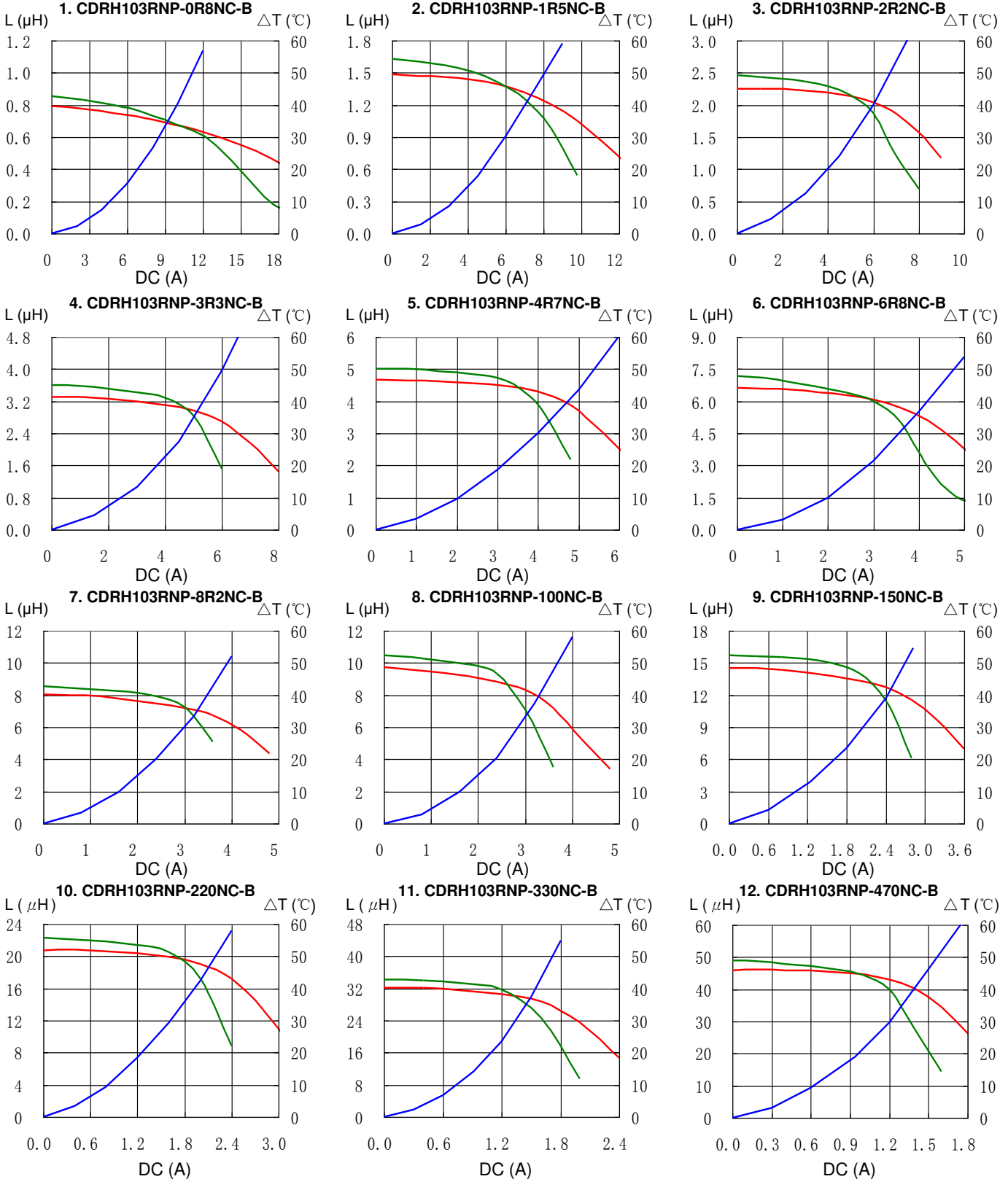
※3 The temperature rise: The value of DC current when the temperature rise is $\Delta T=40^{\circ}\text{C}$ ($T_a=20^{\circ}\text{C}$).

SMD Power Inductor CDRH103R

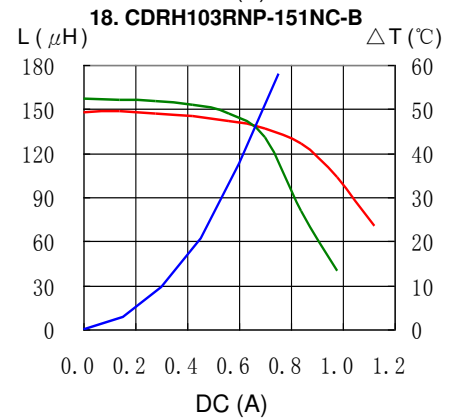
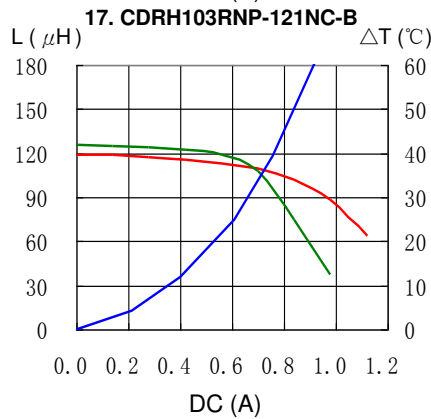
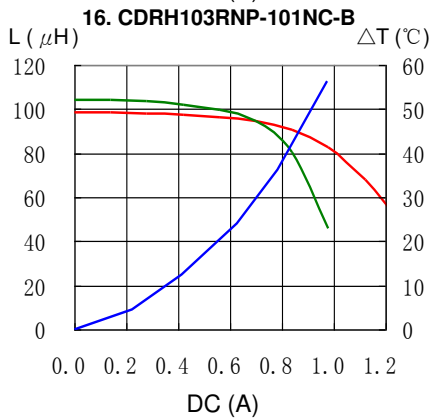
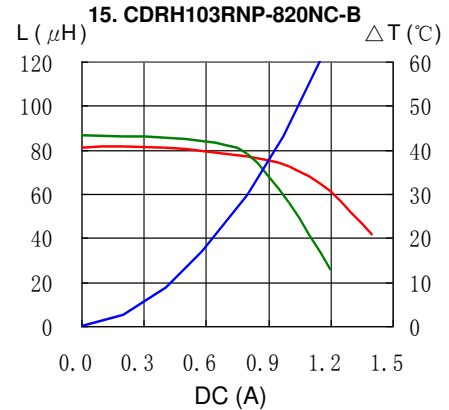
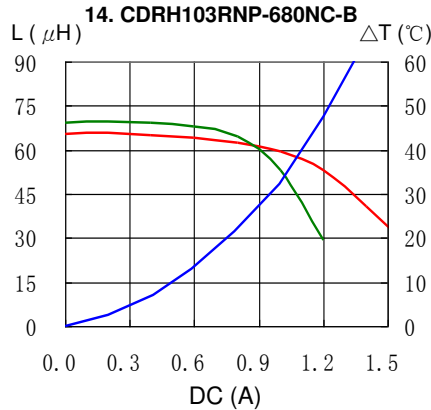
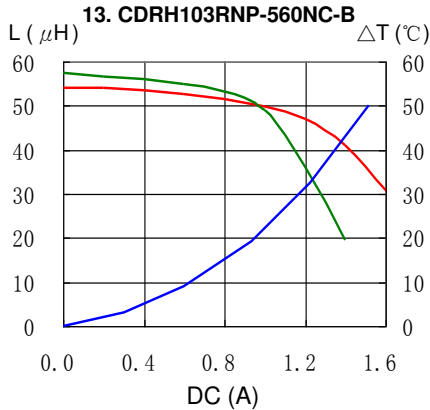


Saturation Current & Temperature Rise Graph

— L (20°C) — L (105°C) — ΔT

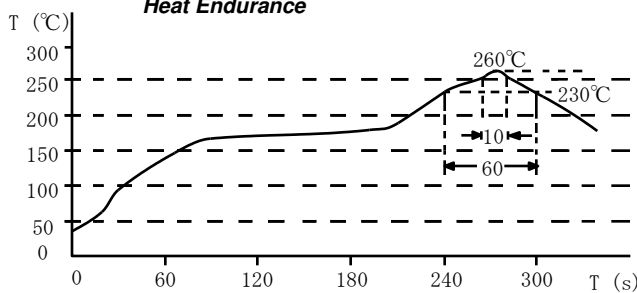


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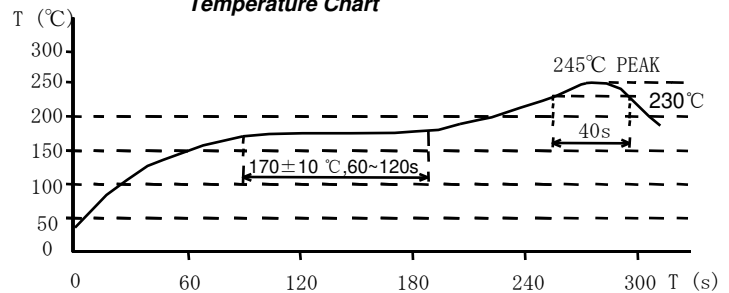


Solder Reflow Condition

Heat Endurance



Temperature Chart



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