

SMD Power Inductor CDRH129R



Description

- Ferrite drum core construction.
- Magnetically shielded.
- L × W × H: 12.4 × 12.4 × 10.0 mm Max.
- Product weight: 5.3g(Ref.)
- Moisture Sensitivity Level: 1
- RoHS compliance.

Environmental Data

- Operating temperature range: -40°C ~ +105°C (including coil's self temperature rise)
- Storage temperature range: -40°C ~ +105°C
- Solder reflow temperature: 260 °C peak.

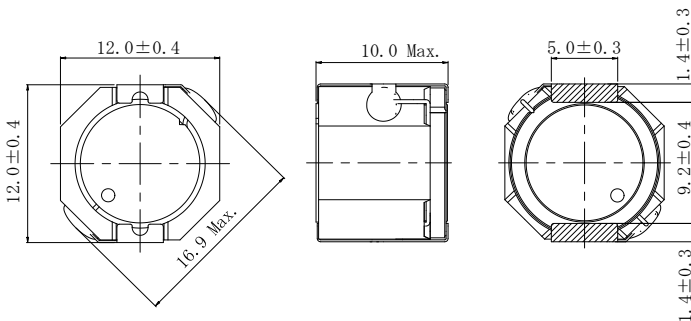
Packaging

- Carrier tape and reel packaging.
- 13" diameter reel.
- 250pcs per reel.

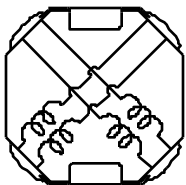
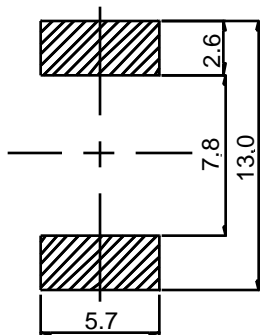
Applications

- Ideally used in LED lighting, etc.

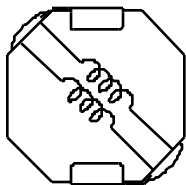
Dimension - [mm]



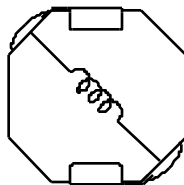
Land pattern and Schematics - [mm]



10µH~56µH



68µH~330µH



470µH~1.0mH



Electrical Characteristics

Part No.	Stamp	Inductance (μH) ※1 [Within]	D.C.R.(mΩ) [Max] (typ.) (at 20°C)	Saturation current (A) (at20°C)※2	Temperature rise current (A) ※3
CDRH129RNP-100MC	100	10±20%	16.5(13.2)	7.60	6.50
CDRH129RNP-150MC	150	15±20%	20.3(16.2)	5.80	6.00
CDRH129RNP-220MC	220	22±20%	32.9(26.3)	5.30	4.70
CDRH129RNP-330MC	330	33±20%	39.3(31.4)	4.00	4.25
CDRH129RNP-470MC	470	47±20%	53.4(42.7)	3.45	3.80
CDRH129RNP-560MC	560	56±20%	67.0(53.6)	3.15	3.25
CDRH129RNP-680MC	680	68±20%	83.5(66.8)	2.95	2.85
CDRH129RNP-820MC	820	82±20%	90.6(72.5)	2.60	2.75
CDRH129RNP-101MC	101	100±20%	116(93)	2.40	2.45
CDRH129RNP-151MC	151	150±20%	159(127)	1.95	2.20
CDRH129RNP-221MC	221	220±20%	226(181)	1.60	1.85
CDRH129RNP-331MC	331	330±20%	366(293)	1.30	1.45
CDRH129RNP-471MC	471	470±20%	415(330)	1.08	1.30
CDRH129RNP-561MC	561	560±20%	521(417)	1.00	1.18
CDRH129RNP-681MC	681	680±20%	654(523)	0.91	1.04
CDRH129RNP-821MC	821	820±20%	825(660)	0.82	0.92
CDRH129RNP-102MC	102	1000±20%	938(750)	0.75	0.82

※1 Measuring condition: at 100kHz.

※2 The saturation current: This indicates the value of DC current when the inductance decreases to 75% of its nominal.

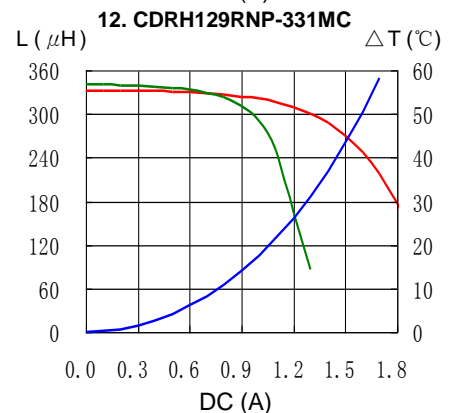
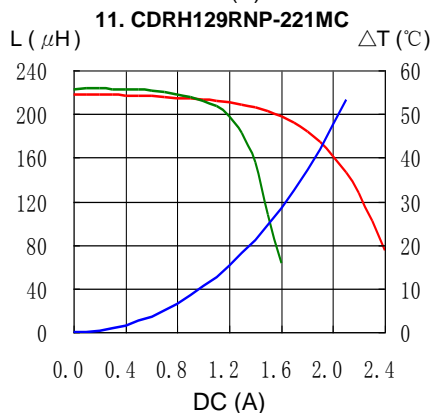
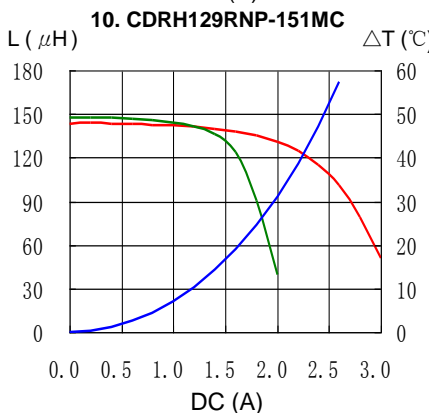
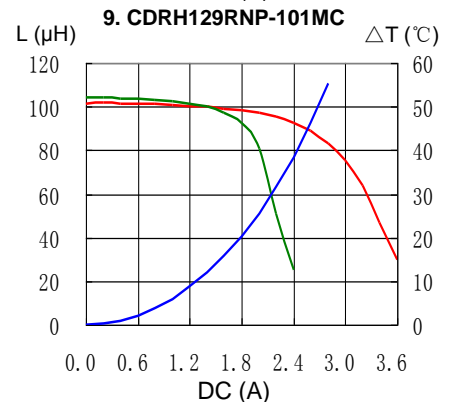
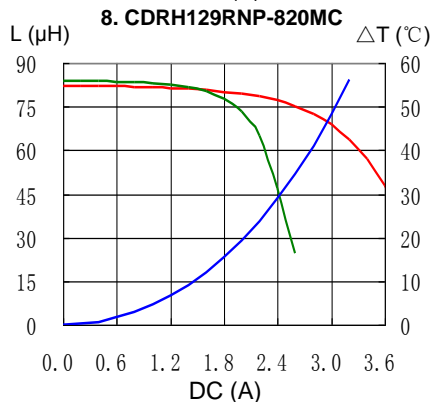
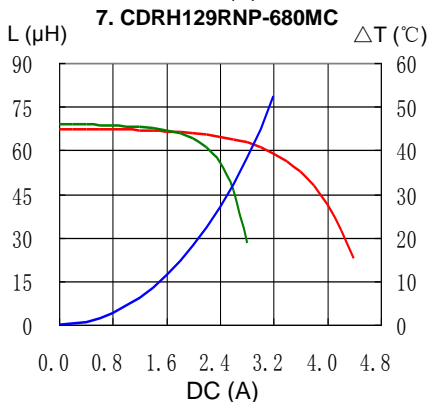
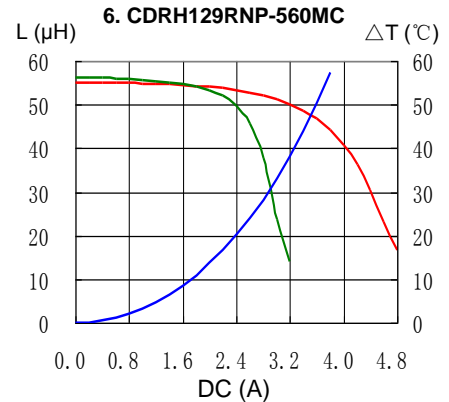
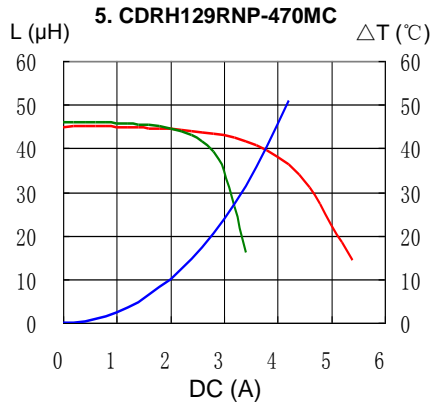
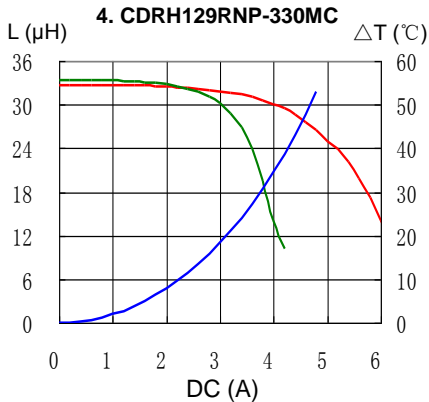
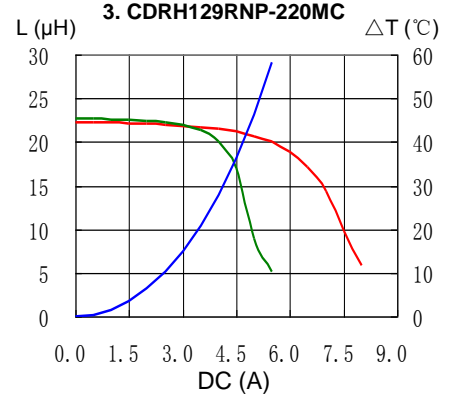
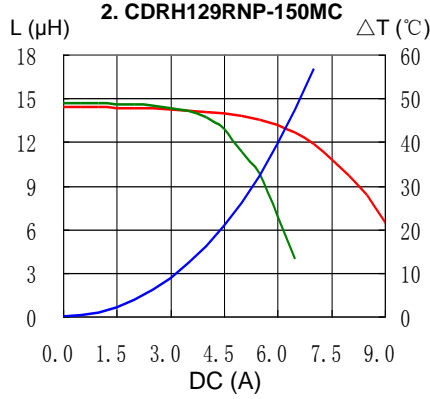
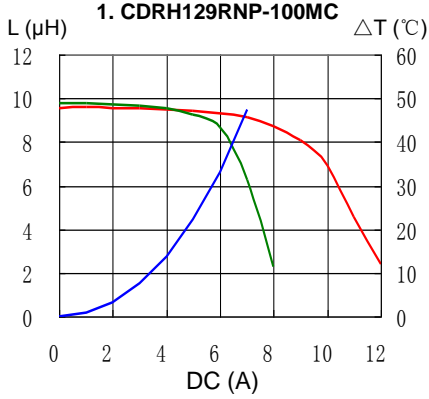
※3 The temperature rise: The value of DC current when the temperature rise is $\Delta T=40^{\circ}\text{C}$ ($T_a=20^{\circ}\text{C}$).

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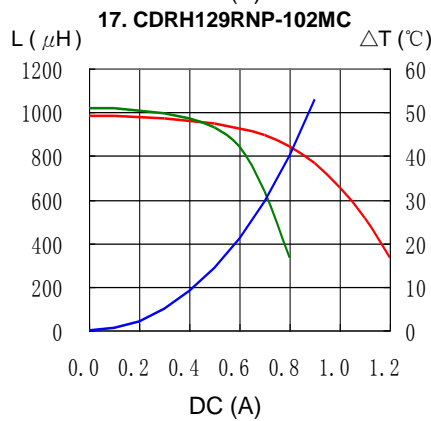
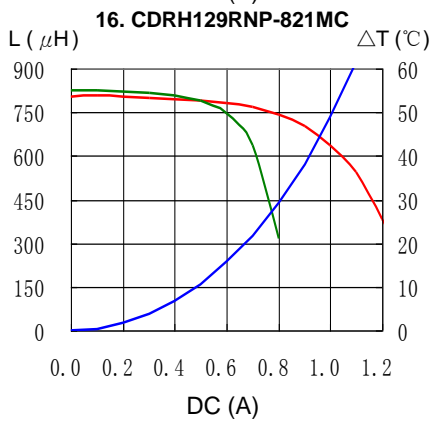
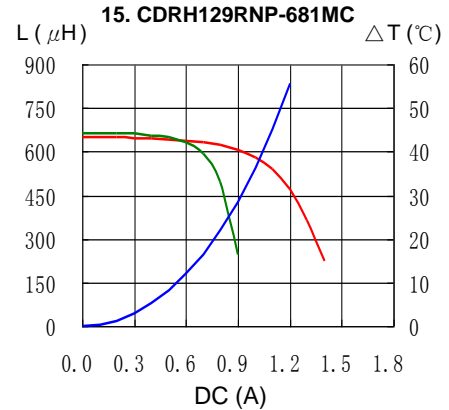
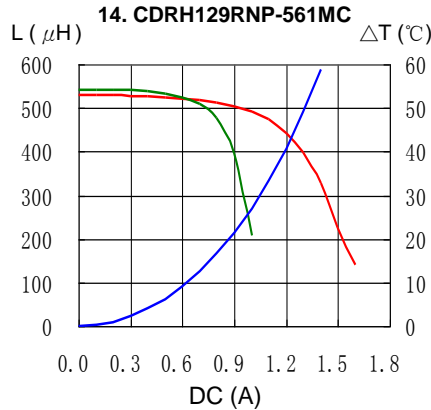
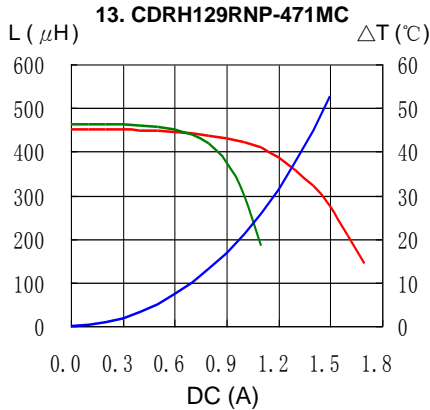
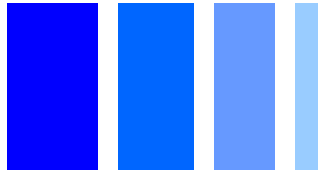


Saturation Current & Temperature Rise Graph

— L (20°C) — L (105°C) — ΔT

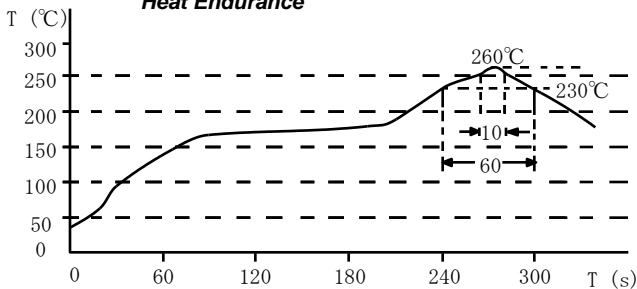


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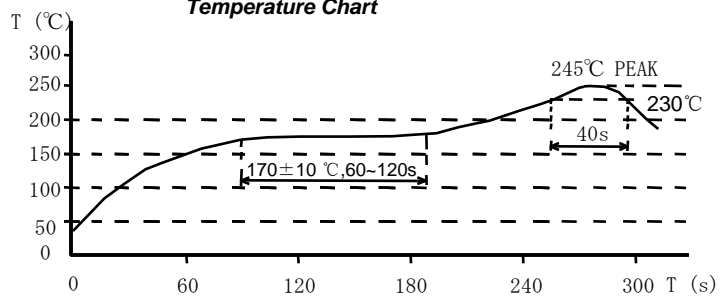


Solder Reflow Condition

Heat Endurance



Temperature Chart



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