

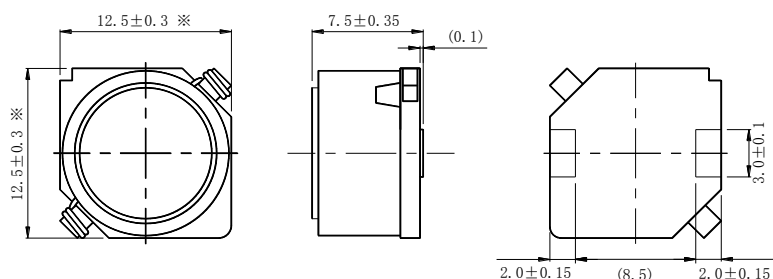
SMD Power Inductor CDRR127



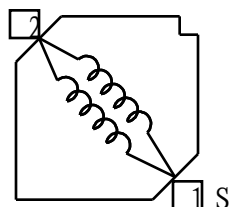
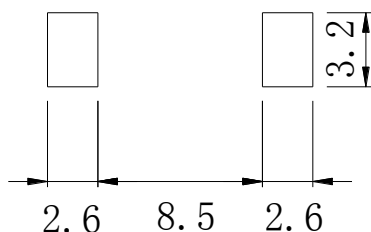
Description

- Magnetically shielded.
- L × W × H: 12.8 × 12.8 × 7.85 mm Max.
- Product weight: 3.8g (Ref.)
- Moisture Sensitivity Level: 1
- RoHS compliance.
- Qualification to AEC-Q200.

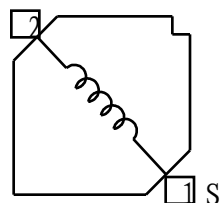
Dimension - [mm]



Land pattern and Schematics - [mm]



1.0μH~33μH



47μH~1000μH

Environmental Data

- Operating temperature range: -40°C ~ +125°C (including coil's self temperature rise)
- Storage temperature range: -40°C ~ +125°C
- Solder reflow temperature: 260 °C peak.

Packaging

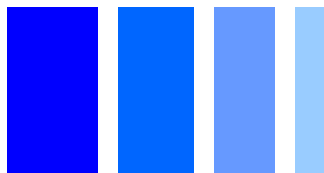
- Carrier tape and reel packaging.
- 12.9 "diameter reel
- 400pcs per reel

Applications

- For consumer electronics :HDD, personal computer, LCD display, etc.
- For automotive: ABS, SRS airbag, HID/LED, car audio, car navigation, LCD display, etc.

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Electrical Characteristics

Part No.	Stamp	Inductance [within] (μ H) ※1	D.C.R. (m Ω) [within] at 25°C	Saturation current (A) ※2 at 20°C	Temperature rise current (A) Typ. ※3
CDRR127NP-1R0NC	1R0	$1.0 \pm 30\%$	$6.0 \pm 20\%$	19.0(24.5)	10.5
CDRR127NP-2R7NC	2R7	$2.7 \pm 30\%$	$8.3 \pm 20\%$	12.8(16.0)	9.1
CDRR127NP-3R3NC	3R3	$3.3 \pm 30\%$	$9.6 \pm 20\%$	11.0(13.8)	8.2
CDRR127NP-5R6NC	5R6	$5.6 \pm 30\%$	$11.6 \pm 20\%$	8.0(10.1)	7.1
CDRR127NP-6R8NC	6R8	$6.8 \pm 30\%$	$13.1 \pm 20\%$	7.2(9.0)	6.7
CDRR127NP-100MC	100	$10 \pm 20\%$	$15.6 \pm 20\%$	5.9(7.3)	5.4
CDRR127NP-150MC	150	$15 \pm 20\%$	$18.4 \pm 20\%$	4.8(6.1)	5.0
CDRR127NP-220MC	220	$22 \pm 20\%$	$26.3 \pm 20\%$	4.2(5.2)	4.0
CDRR127NP-330MC	330	$33 \pm 20\%$	$39.5 \pm 20\%$	3.3(4.2)	3.5
CDRR127NP-470MC	470	$47 \pm 20\%$	$52.8 \pm 20\%$	2.8(3.4)	3.0
CDRR127NP-680MC	680	$68 \pm 20\%$	$77.8 \pm 20\%$	2.1(2.7)	2.4
CDRR127NP-101MC	101	$100 \pm 20\%$	$125 \pm 20\%$	1.9(2.3)	2.0
CDRR127NP-151MC	151	$150 \pm 20\%$	$175 \pm 20\%$	1.5(1.9)	1.6
CDRR127NP-221MC	221	$220 \pm 20\%$	$258 \pm 20\%$	1.3(1.6)	1.3
CDRR127NP-331MC	331	$330 \pm 20\%$	$340 \pm 20\%$	1.1(1.3)	1.1
CDRR127NP-471MC	471	$470 \pm 20\%$	$554 \pm 20\%$	0.9(1.1)	0.9
CDRR127NP-681MC	681	$680 \pm 20\%$	$846 \pm 20\%$	0.7(0.9)	0.7
CDRR127NP-102MC	102	$1000 \pm 20\%$	$1271 \pm 20\%$	0.6(0.8)	0.57

※1 Inductance tested at 100kHz.

※2 Saturation current: This indicates the value of current when the inductance is 10% lower than its initial value.

※3 Temperature rise current: 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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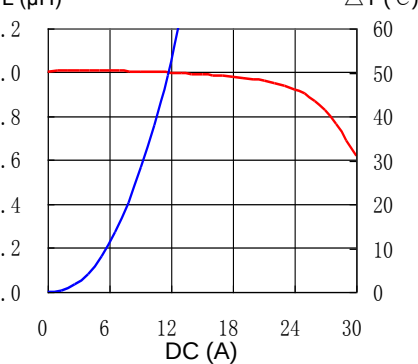
CDRR127



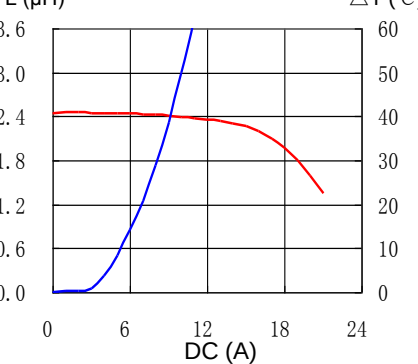
Saturation Current & Temperature Rise Graph

— L (20°C) — ΔT

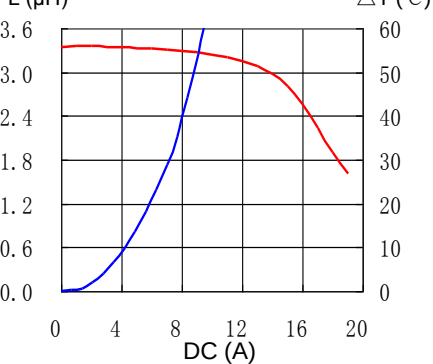
1. CDRR127NP-1R0NC



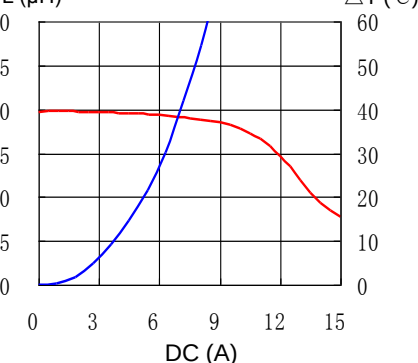
2. CDRR127NP-2R7NC



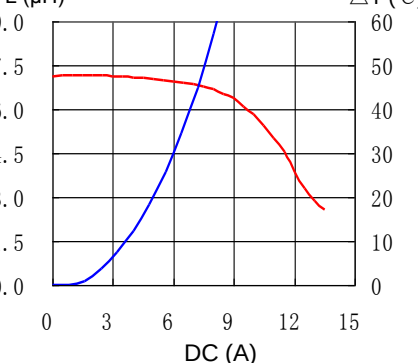
3. CDRR127NP-3R3NC



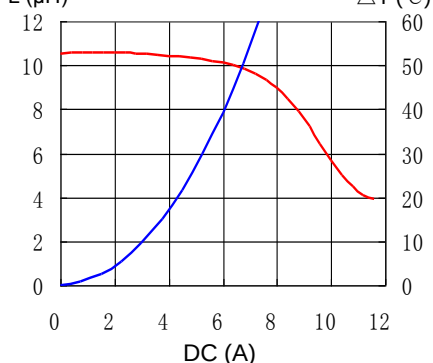
4. CDRR127NP-5R6NC



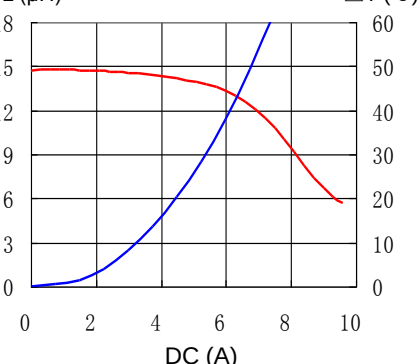
5. CDRR127NP-6R8NC



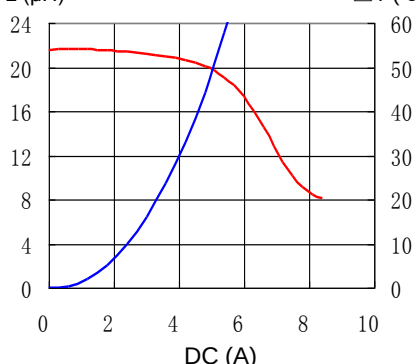
6. CDRR127NP-100MC



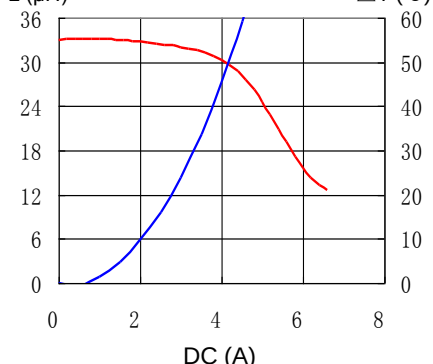
7. CDRR127NP-150MC



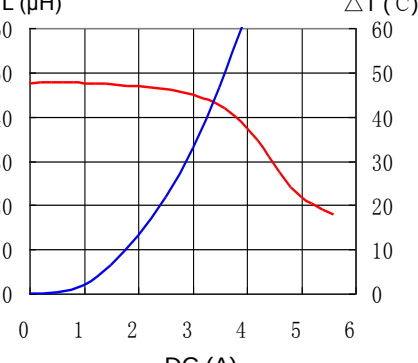
8. CDRR127NP-220MC



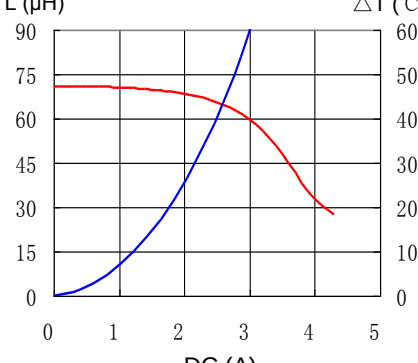
9. CDRR127NP-330MC



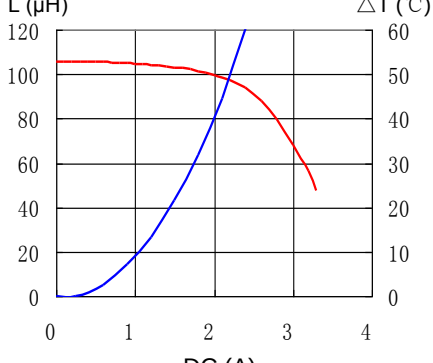
10. CDRR127NP-470MC



11. CDRR127NP-680MC



12. CDRR127NP-101MC



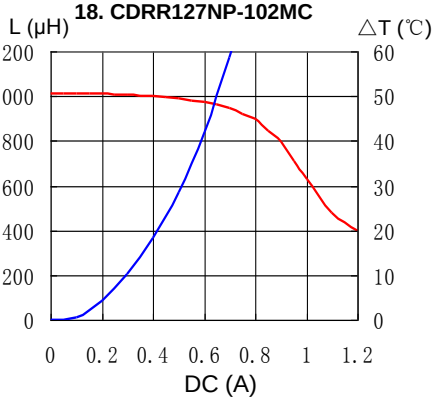
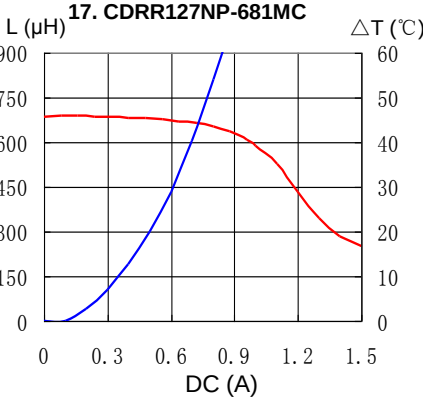
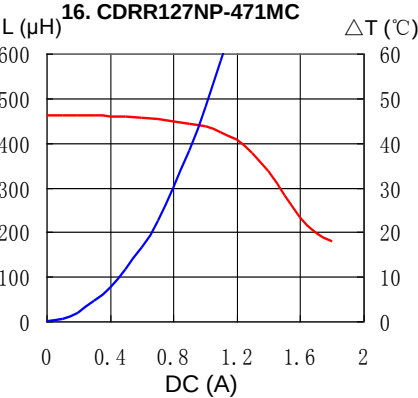
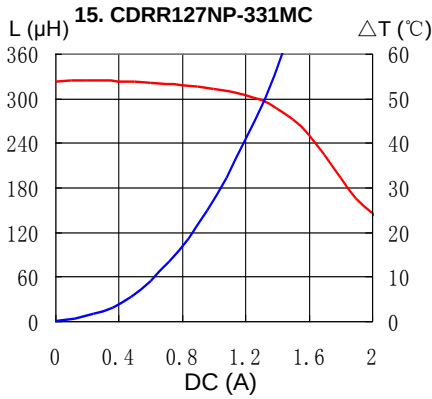
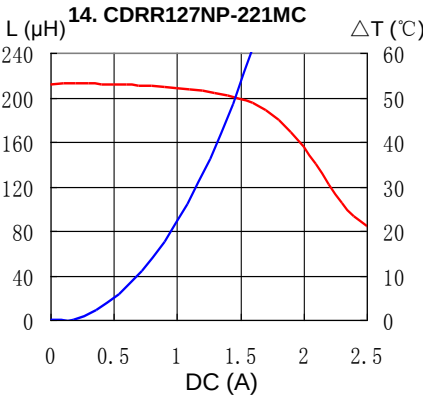
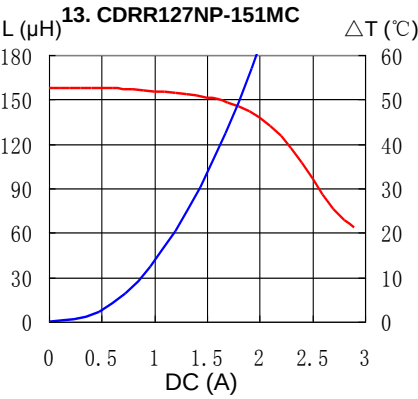
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Saturation Current & Temperature Rise Graph

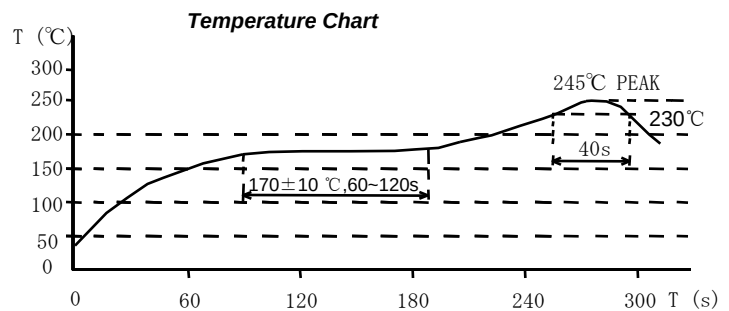
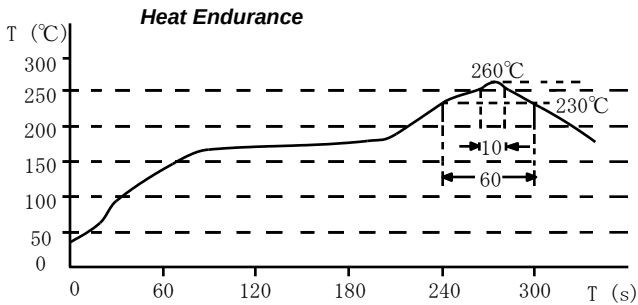
— L (20°C) — ΔT



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Solder Reflow Condition



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