

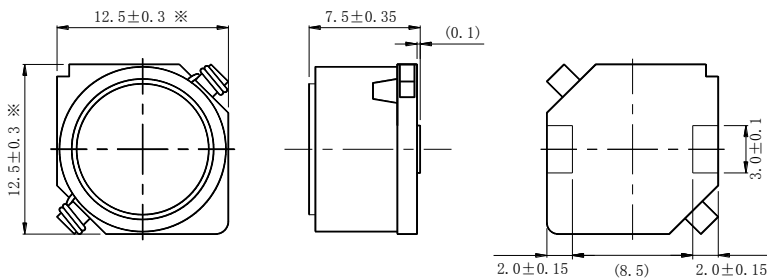
SMD Power Inductor CDRR127



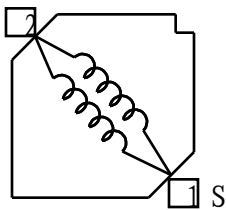
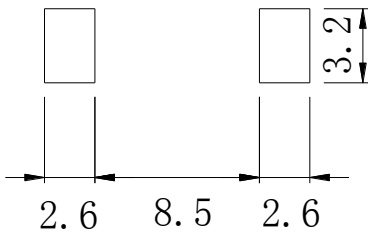
Description

- 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.

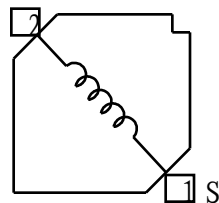
Dimension - [mm]



Land pattern and Schematics - [mm]



1.0 μ H ~ 33 μ H



47 μ H ~ 1000 μ H

Environmental Data

- Operating temperature range: $-40^{\circ}\text{C} \sim +125^{\circ}\text{C}$ (including coil's self temperature rise)
- Storage temperature range: $-40^{\circ}\text{C} \sim +125^{\circ}\text{C}$
- 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.



Electrical Characteristics

| Part No. | Stamp | Inductance [within] (μH) ※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.

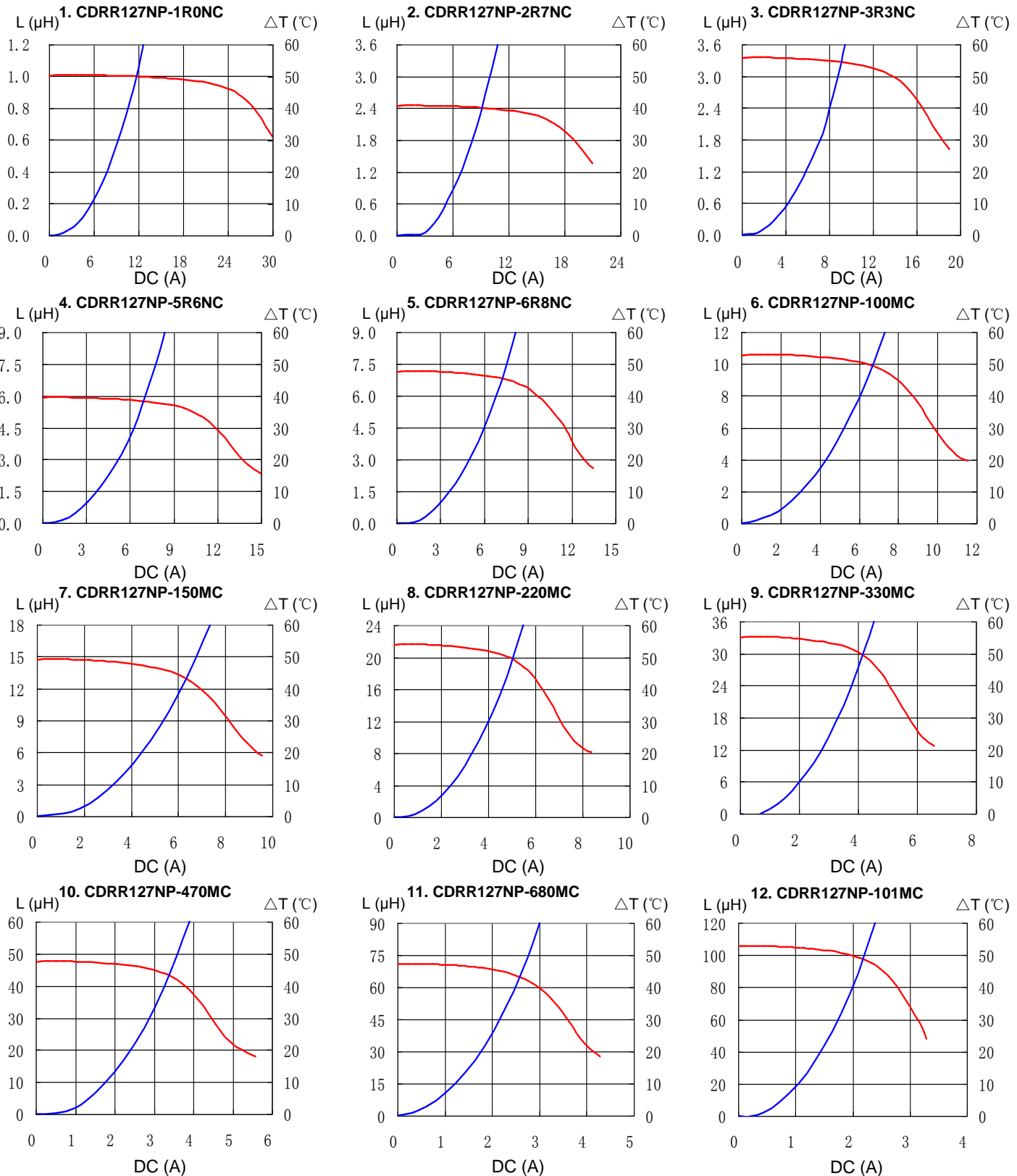
※3 Temperature rise current: The value of DC current when the temperature rise is $\Delta T=40^{\circ}\text{C}$ ($T_a=20^{\circ}\text{C}$).

SMD Power Inductor CDRR127



Saturation Current & Temperature Rise Graph

— L (20°C) — ΔT



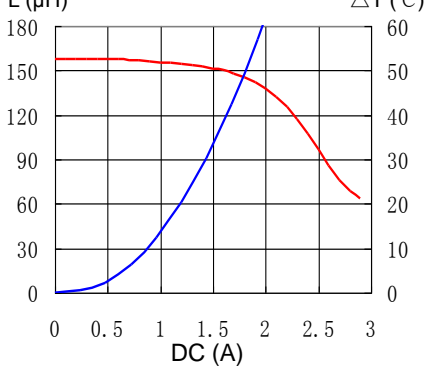
SMD Power Inductor CDRR127



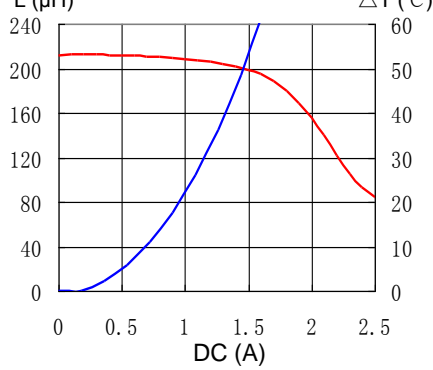
Saturation Current & Temperature Rise Graph

— L (20°C) — ΔT

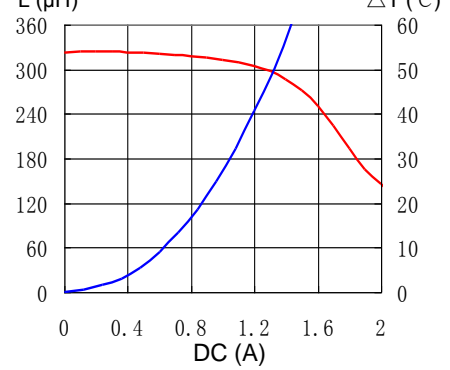
13. CDRR127NP-151MC



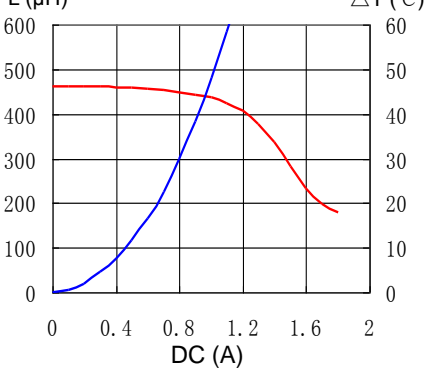
14. CDRR127NP-221MC



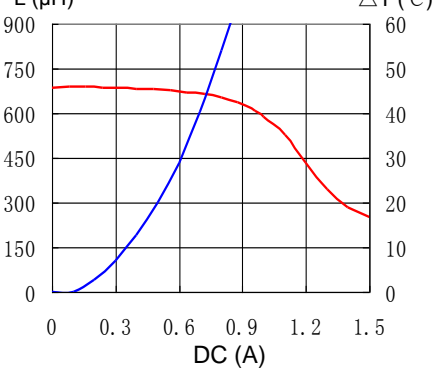
15. CDRR127NP-331MC



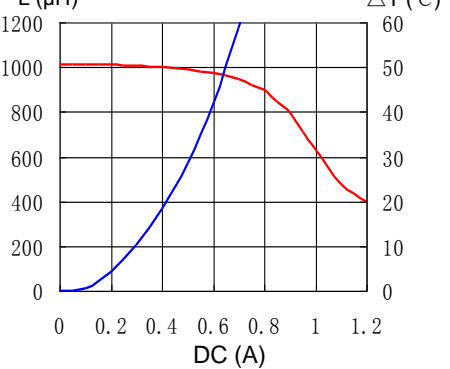
16. CDRR127NP-471MC



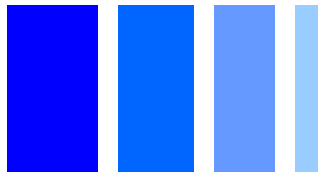
17. CDRR127NP-681MC



18. CDRR127NP-102MC

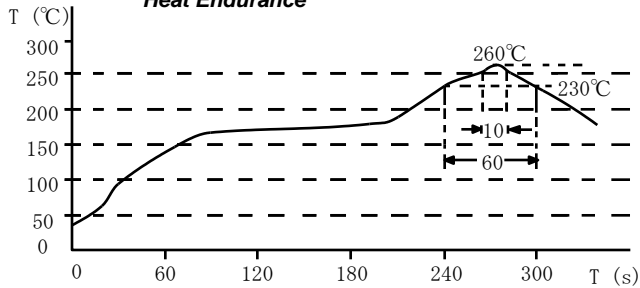


SMD Power Inductor CDRR127

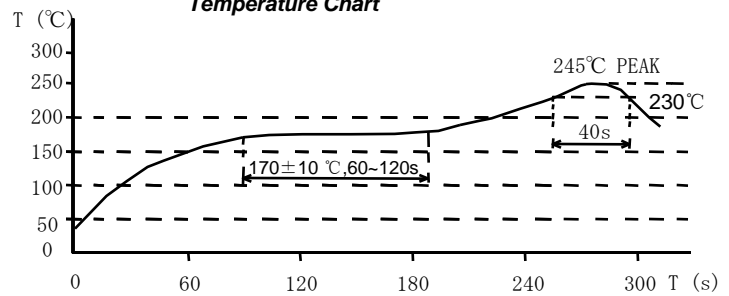


Solder Reflow Condition

Heat Endurance



Temperature Chart



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

Hong Kong

Tel.+852-2880-6781
FAX.+852-2565-9600
sales@hk.sumida.com

Saitama(Japan)

Tel.+81-48-691-7300
FAX.+81-48-691-7340
sales@jp.sumida.com

Chicago

Tel.+1-847-545-6700
FAX. +1-847-545-6720
sales@us.sumida.com

Shanghai

Tel.+86-21-5836-3299
FAX.+86-21-5836-3266
shanghai.sales@cn.sumida.com

Seoul

Tel.+82-2-6237-0777
FAX.+82-2-6237-0778
sales@kr.sumida.com

Obernzell

Tel.+49-8591-937-0
FAX. +49-8591-937-103
contact@eu.sumida.com

Shenzhen

Tel.+86-755-8291-0228
FAX.+86-755-8291-0338
shenzhen.sales@cn.sumida.com

Singapore

Tel.+65-6296-3388
FAX.+65-6841-4426
sales@sg.sumida.com

Neumarkt

Tel.+49-9181-4509-110
FAX. +49-9181-4509-310
infocomp@eu.sumida.com

Taipei

Tel.+886-2-8751-2737
FAX.+886-2-8751-2738
sales@tw.sumida.com

San Jose

Tel.+1-408-321-9660
FAX.+1-408-321-9308
sales@us.sumida.com

X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for [Fixed Inductors](#) category:

Click to view products by [Sumida](#) manufacturer:

Other Similar products are found below :

[CR43NP-680KC](#) [CR54NP-820KC](#) [CR54NP-8R5MC](#) [CTX32CT-100](#) [70F224AI](#) [MGDQ4-00004-P](#) [MHL1ECTTP18NJ](#) [MHL1JCTTD12NJ](#)
[PE-51506NL](#) [PE-53601NL](#) [PE-53602NL](#) [PE-53630NL](#) [PE-53824SNLT](#) [PE-62892NL](#) [PE-92100NL](#) [PG0434.801NLT](#) [PG0936.113NLT](#)
[9310-16](#) [PM06-2N7](#) [PM06-39NJ](#) [A01TK](#) [1206CS-471XJ](#) [HC2-2R2TR](#) [HC2LP-R47-R](#) [HC3-2R2-R](#) [1206CS-151XG](#) [RCH664NP-140L](#)
[RCH664NP-4R7M](#) [RCH8011NP-221L](#) [RCP1317NP-332L](#) [RCP1317NP-391L](#) [RCR1010NP-470M](#) [RCR110DNP-331L](#) [DH2280-4R7M](#)
[DS1608C-106](#) [ASPI-4020HI-R10M-T](#) [B10TJ](#) [B82477P4333M](#) [B82498B3101J000](#) [B82498B3680J000](#) [ELJ-RE27NJF2](#) [1812CS-153XJ](#)
[1812CS-183XJ](#) [1812CS-223XJ](#) [1812LS-104XJ](#) [1812LS-105XJ](#) [1812LS-124XJ](#) [1812LS-154XJ](#) [1812LS-223XJ](#) [1812LS-224XJ](#)