

# CDRR127NP-101MC Datasheet



DiGi Electronics Part Number	CDRR127NP-101MC-DG
Manufacturer	<a href="#">Sumida America Components Inc.</a>
Manufacturer Product Number	CDRR127NP-101MC
Description	INDUCTOR
Detailed Description	100 $\mu$ H Shielded Inductor 2 A 125mOhm Nonstandard

<https://www.DiGi-Electronics.com>



Tel: +00 852-30501935

RFQ Email: [Info@DiGi-Electronics.com](mailto:Info@DiGi-Electronics.com)

DiGi is a global authorized distributor of electronic components.

## Purchase and inquiry

Manufacturer Product Number:

CDRR127NP-101MC

Series:

CDRR127

Type:

-

Inductance:

100  $\mu$ H

Current Rating (Amps):

2 A

Shielding:

Shielded

Q @ Freq:

-

Ratings:

AEC-Q200

Inductance Frequency - Test:

100 kHz

Mounting Type:

Surface Mount

Supplier Device Package:

-

Height - Seated (Max):

0.309" (7.85mm)

Manufacturer:

Sumida America Components Inc.

Product Status:

Active

Material - Core:

Ferrite

Tolerance:

$\pm$ 20%

Current - Saturation (Isat):

1.9A

DC Resistance (DCR):

125mOhm

Frequency - Self Resonant:

-

Operating Temperature:

-40°C ~ 125°C

Features:

-

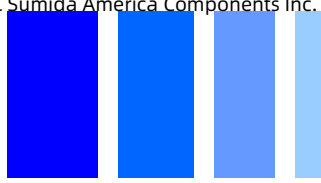
Package / Case:

Nonstandard

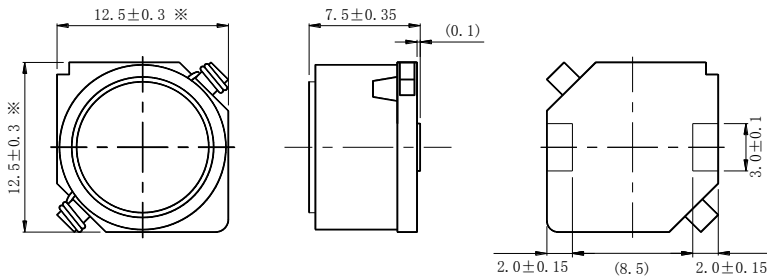
Size / Dimension:

0.492" L x 0.492" W (12.50mm x 12.50mm)

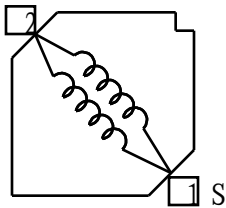
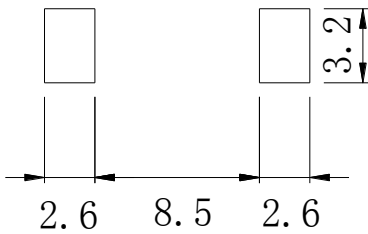
# SMD Power Inductor CDRR127



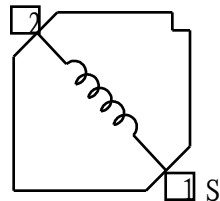
### Dimension - [mm]



### Land pattern and Schematics - [mm]



1.0μH~33μH



47μH~1000μH

### 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.

### 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

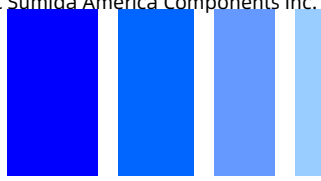
### Applications

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



# SMD Power Inductor

## CDRR127



### Electrical Characteristics

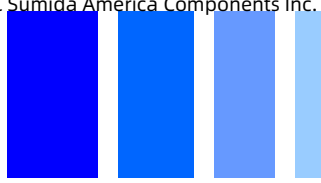
Part No.	Stamp	Inductance [within] ( $\mu\text{H}$ ) ※1	D.C.R. (m $\Omega$ ) [within] at 25°C	Saturation current (A) ※2 at 20°C	Temperature rise current (A) Typ. ※3
CDRR127NP-1R0NC	1R0	1.0 $\pm$ 30%	6.0 $\pm$ 20%	19.0(24.5)	10.5
CDRR127NP-2R7NC	2R7	2.7 $\pm$ 30%	8.3 $\pm$ 20%	12.8(16.0)	9.1
CDRR127NP-3R3NC	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.

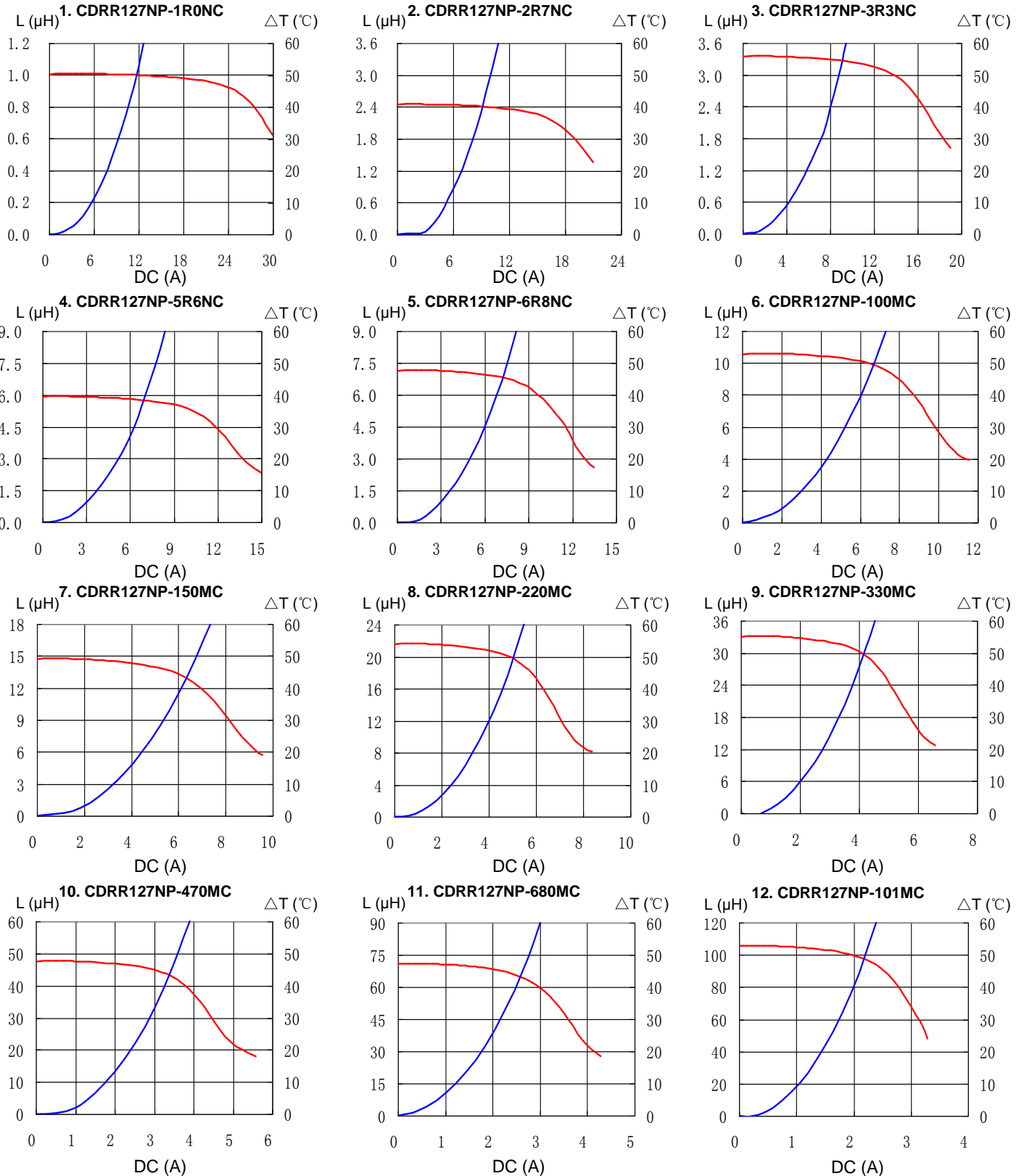
※3 Temperature rise current: The value of DC current when the temperature rise is  $\Delta T=40^{\circ}\text{C}$  ( $T_a=20^{\circ}\text{C}$ ).

# SMD Power Inductor CDRR127

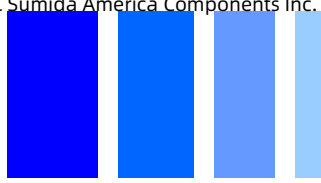


## Saturation Current & Temperature Rise Graph

— L (20°C)    —  $\Delta T$



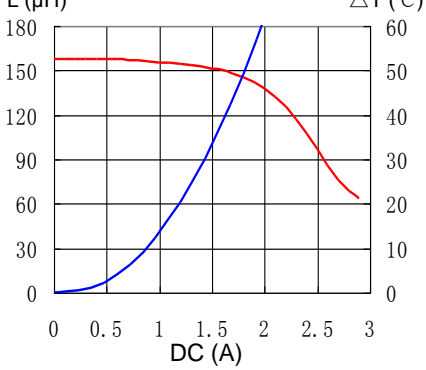
# SMD Power Inductor CDRR127



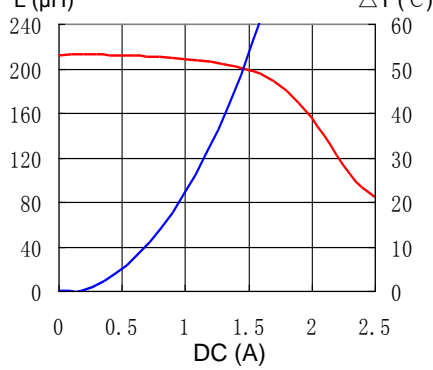
## Saturation Current & Temperature Rise Graph

— L (20°C)    —  $\Delta T$

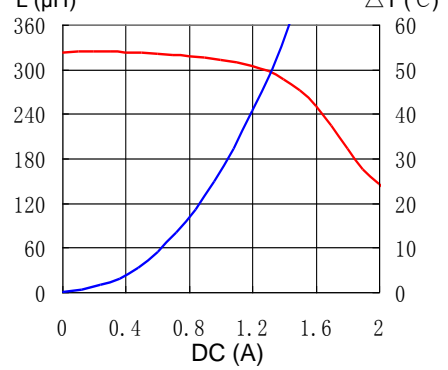
13. CDRR127NP-151MC



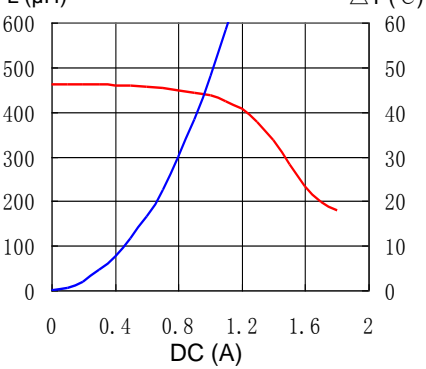
14. CDRR127NP-221MC



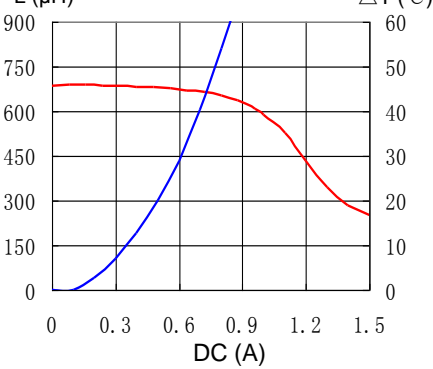
15. CDRR127NP-331MC



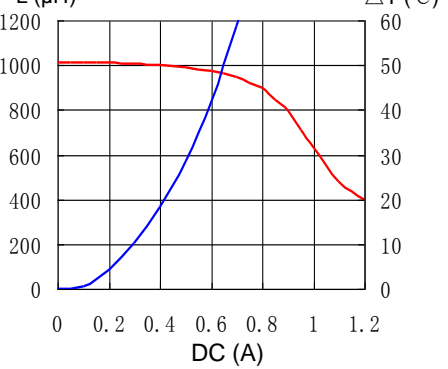
16. CDRR127NP-471MC



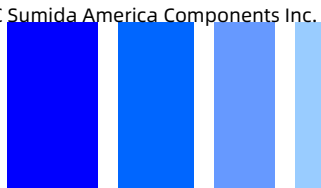
17. CDRR127NP-681MC



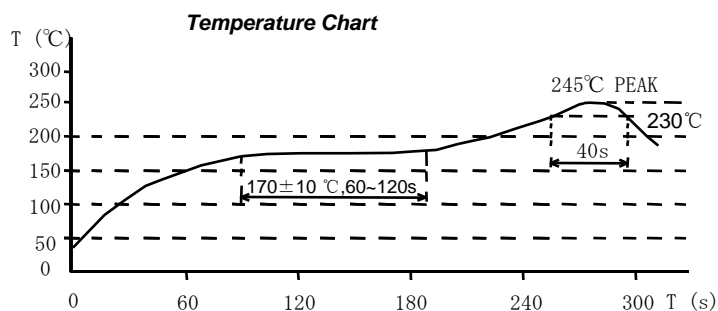
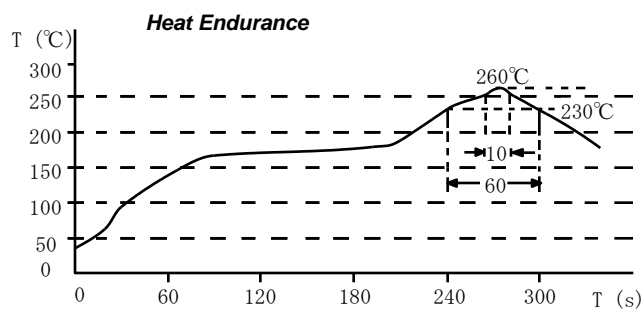
18. CDRR127NP-102MC



# SMD Power Inductor CDRR127



## Solder Reflow Condition



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](mailto:sales@hk.sumida.com)

### Saitama(Japan)

Tel.+81-48-691-7300  
FAX.+81-48-691-7340  
[sales@jp.sumida.com](mailto:sales@jp.sumida.com)

### Chicago

Tel.+1-847-545-6700  
FAX. +1-847-545-6720  
[sales@us.sumida.com](mailto:sales@us.sumida.com)

### Shanghai

Tel.+86-21-5836-3299  
FAX.+86-21-5836-3266  
[shanghai.sales@cn.sumida.com](mailto:shanghai.sales@cn.sumida.com)

### Seoul

Tel.+82-2-6237-0777  
FAX.+82-2-6237-0778  
[sales@kr.sumida.com](mailto:sales@kr.sumida.com)

### Obernzell

Tel.+49-8591-937-0  
FAX. +49-8591-937-103  
[contact@eu.sumida.com](mailto:contact@eu.sumida.com)

### Shenzhen

Tel.+86-755-8291-0228  
FAX.+86-755-8291-0338  
[shenzhen.sales@cn.sumida.com](mailto:shenzhen.sales@cn.sumida.com)

### Singapore

Tel.+65-6296-3388  
FAX.+65-6841-4426  
[sales@sg.sumida.com](mailto:sales@sg.sumida.com)

### Neumarkt

Tel.+49-9181-4509-110  
FAX. +49-9181-4509-310  
[infocomp@eu.sumida.com](mailto:infocomp@eu.sumida.com)

### Taipei

Tel.+886-2-8751-2737  
FAX.+886-2-8751-2738  
[sales@tw.sumida.com](mailto:sales@tw.sumida.com)

### San Jose

Tel.+1-408-321-9660  
FAX.+1-408-321-9308  
[sales@us.sumida.com](mailto:sales@us.sumida.com)



## OUR CERTIFICATE

DiGi provide top-quality products and perfect service for customer worldwide through standardization, technological innovation and continuous improvement. DiGi through third-party certification, we stricly control the quality of products and services. Welcome your RFQ to

Email: [Info@DiGi-Electronics.com](mailto:Info@DiGi-Electronics.com)



Tel: +00 852-30501935

RFQ Email: [Info@DiGi-Electronics.com](mailto:Info@DiGi-Electronics.com)

DiGi is a global authorized distributor of electronic components.