

CDRH169RNP-680MC Datasheet



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DiGi Electronics Part Number	CDRH169RNP-680MC-DG
Manufacturer	Sumida America Components Inc.
Manufacturer Product Number	CDRH169RNP-680MC
Description	INDUCTOR
Detailed Description	68 μ H Shielded Drum Core, Wirewound Inductor 3.3 A 51mOhm Max Nonstandard



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DiGi is a global authorized distributor of electronic components.

Purchase and inquiry

Manufacturer Product Number:

CDRH169RNP-680MC

Series:

CDRH169R

Type:

Drum Core, Wirewound

Inductance:

68 μ H

Current Rating (Amps):

3.3 A

Shielding:

Shielded

Q @ Freq:

-

Ratings:

-

Inductance Frequency - Test:

100 kHz

Mounting Type:

Surface Mount

Supplier Device Package:

-

Height - Seated (Max):

0.394" (10.00mm)

Manufacturer:

Sumida America Components Inc.

Product Status:

Active

Material - Core:

Ferrite

Tolerance:

\pm 20%

Current - Saturation (Isat):

4.4A

DC Resistance (DCR):

51mOhm Max

Frequency - Self Resonant:

-

Operating Temperature:

-40°C ~ 105°C

Features:

-

Package / Case:

Nonstandard

Size / Dimension:

0.630" L x 0.630" W (16.00mm x 16.00mm)

Environmental & Export classification

Moisture Sensitivity Level (MSL):

1 (Unlimited)

SMD Power Inductor

CDRH169R



Description

- Ferrite drum core construction
- Magnetically shielded
- L × W × H: 16.5 × 16.5 × 10.0 mm Max.
- Product weight: 8.2g(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.

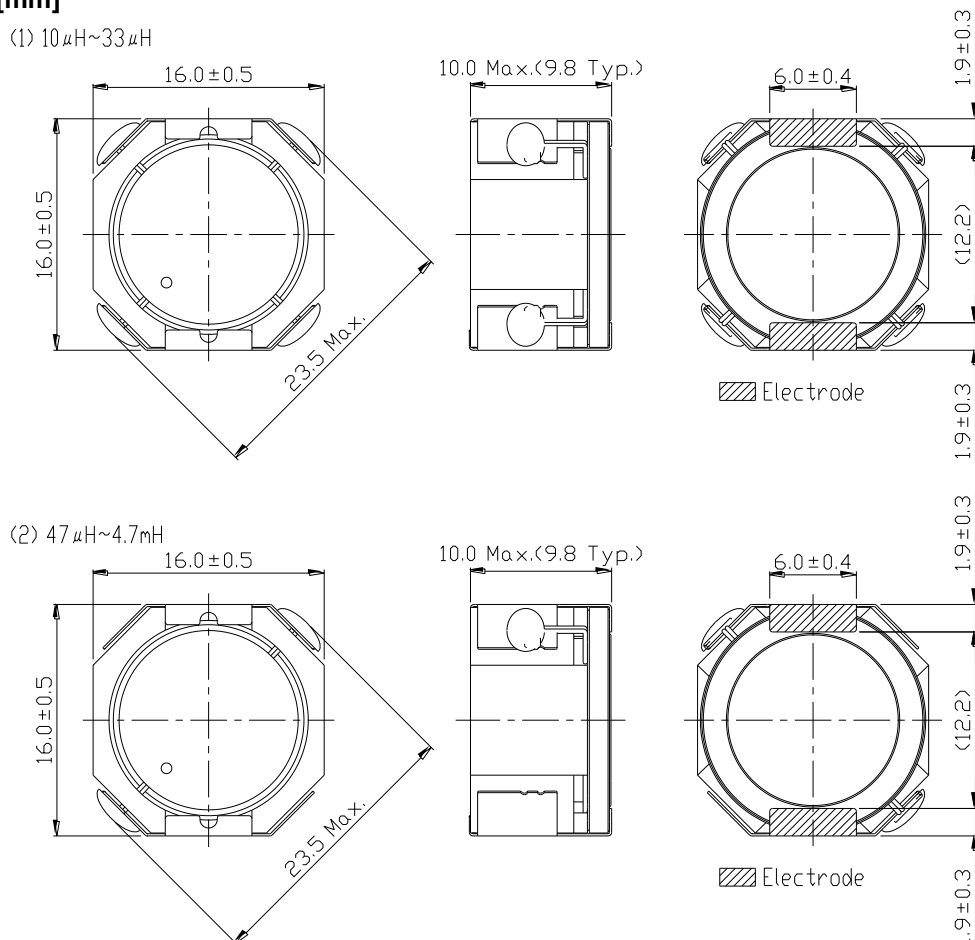
Packaging

- Carrier tape and reel packaging
- 13.0" diameter reel
- 200pcs per reel

Applications

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

Dimension - [mm]



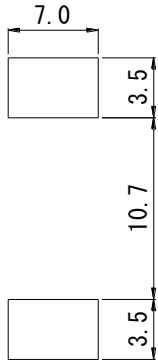
Note: This specification is subject to change without notice. Please contact your nearest sales office for updated information when placing an order.

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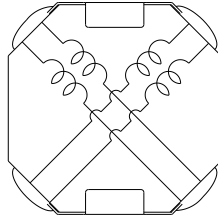
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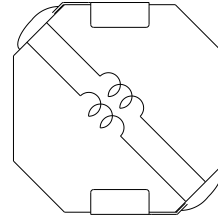
Recommended Land pattern - [mm]



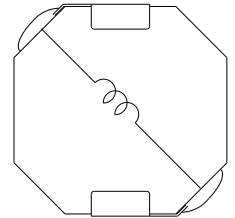
Connection(Bottom view)



(10 μ H ~ 33 μ H)



(47 μ H ~ 100 μ H)



(150 μ H ~ 4.7mH)

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Electrical Characteristics

Part No.	Stamp	Inductance(μ H) [within] ※1	D.C.R. (Ω) Max. (Typ.) (at 20°C)	Saturation Current (A) ※2		Temperature Rise Current (A) ※3
				at 20°C	at 105°C	
CDRH169RNP-100MC	100	10 \pm 20%	7.8m(6.3m)	11.5	7.7	8.6
CDRH169RNP-150MC	150	15 \pm 20%	12.5m(10m)	9.6	6.4	7.0
CDRH169RNP-220MC	220	22 \pm 20%	18m(15m)	8.1	5.6	5.7
CDRH169RNP-330MC	330	33 \pm 20%	27m(22m)	6.7	4.2	4.8
CDRH169RNP-470MC	470	47 \pm 20%	35m(28m)	5.3	3.4	4.2
CDRH169RNP-680MC	680	68 \pm 20%	51m(41m)	4.4	2.9	3.3
CDRH169RNP-101MC	101	100 \pm 20%	77m(62m)	3.7	2.4	2.7
CDRH169RNP-151MC	151	150 \pm 20%	121m(97m)	3.2	2.2	2.2
CDRH169RNP-221MC	221	220 \pm 20%	181m(145m)	2.6	1.8	1.8
CDRH169RNP-331MC	331	330 \pm 20%	281m(225m)	2.1	1.4	1.5
CDRH169RNP-471MC	471	470 \pm 20%	392m(314m)	1.8	1.2	1.1
CDRH169RNP-681MC	681	680 \pm 20%	518m(414m)	1.5	1.0	0.92
CDRH169RNP-102MC	102	1000 \pm 20%	0.79(0.63)	1.2	0.79	0.82
CDRH169RNP-152MC	152	1500 \pm 20%	1.10(0.88)	0.95	0.65	0.70
CDRH169RNP-222MC	222	2200 \pm 20%	1.53(1.22)	0.79	0.54	0.58
CDRH169RNP-332MC	332	3300 \pm 20%	2.18(1.74)	0.66	0.44	0.48
CDRH169RNP-472MC	472	4700 \pm 20%	3.17(2.53)	0.54	0.36	0.40

※1 Measuring condition: at 100kHz.

※2 Saturation current: The value of D.C. current when the inductance decreases to 65% of its nominal.

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

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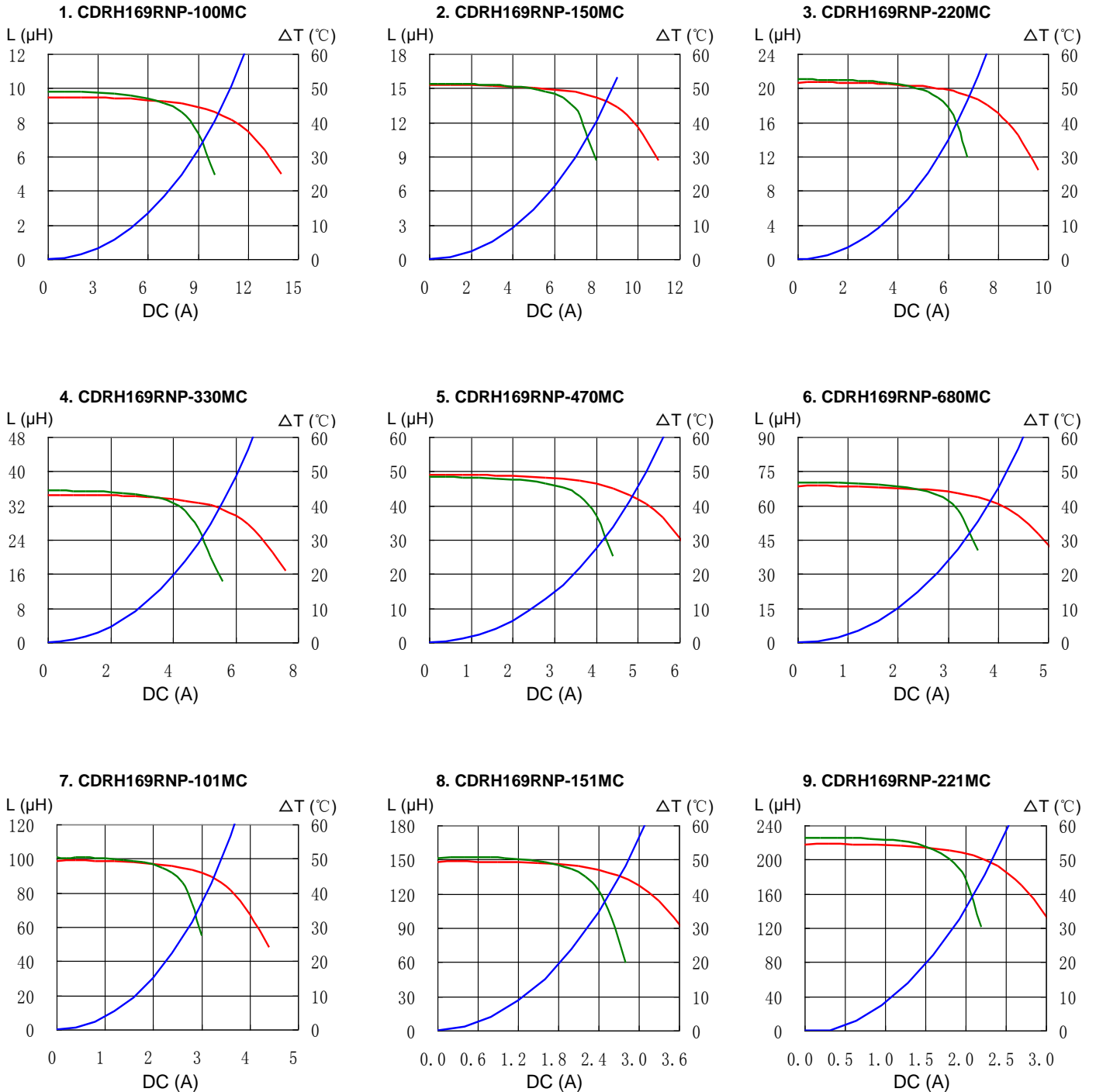
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Saturation Current & Temperature Rise Graph

— L (20°C) — L (105°C) — ΔT



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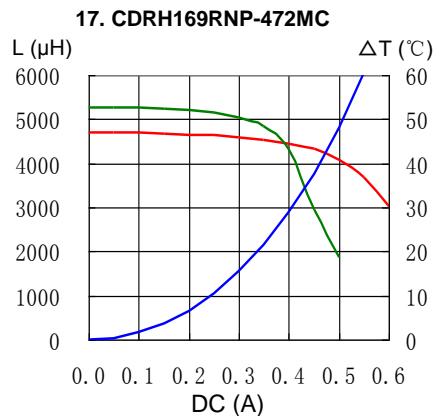
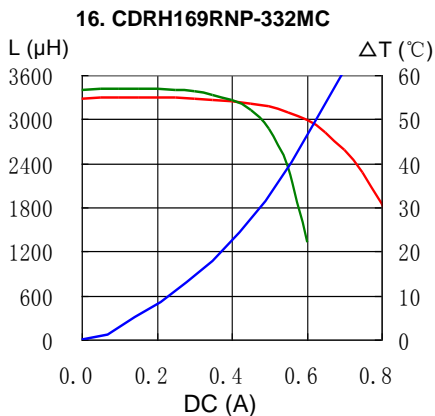
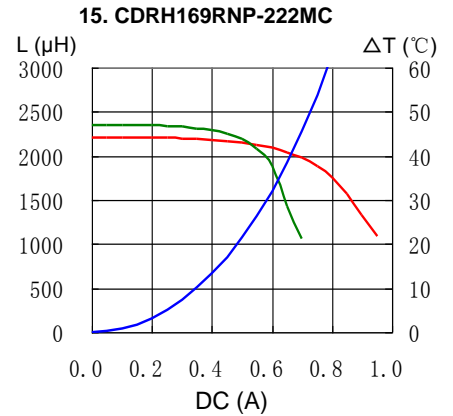
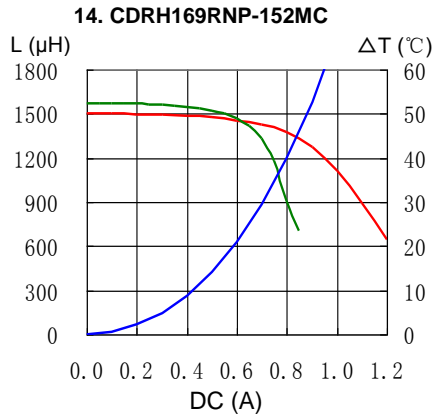
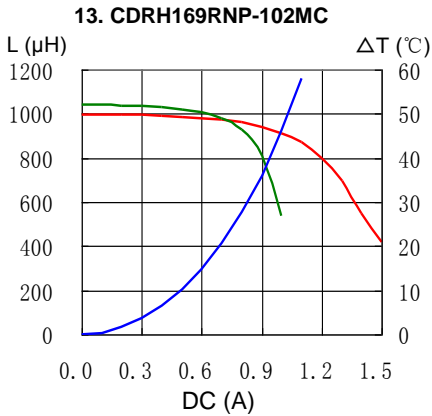
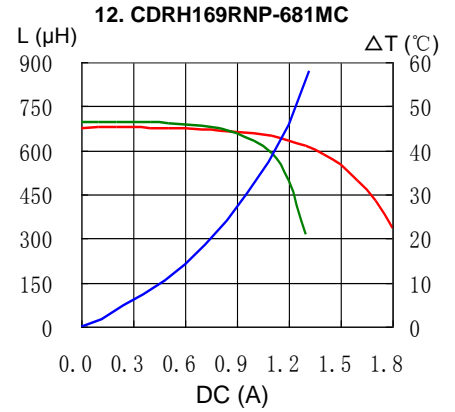
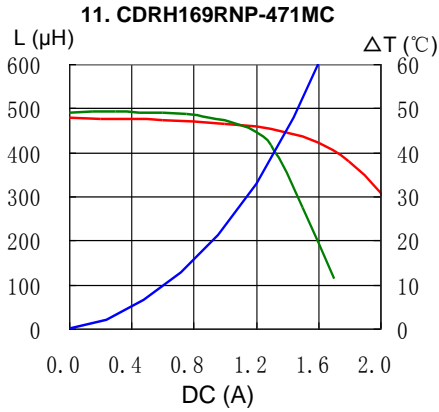
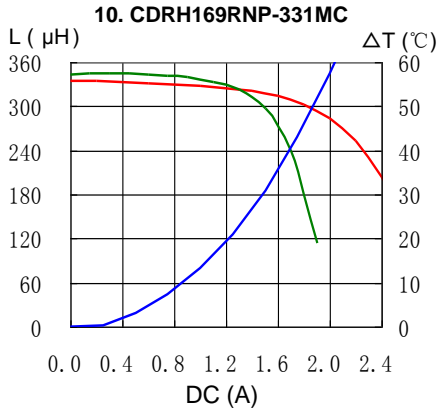
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Saturation Current & Temperature Rise Graph

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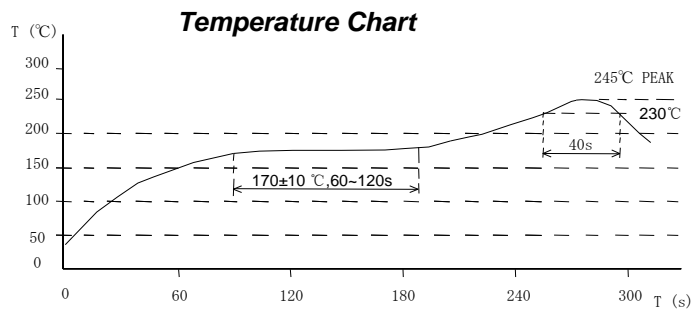
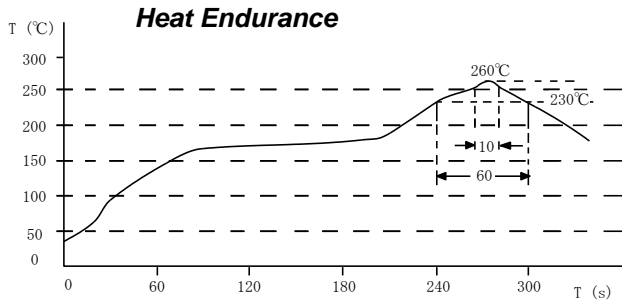


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Solder Reflow Condition



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