

# CDRH40D28NP-2R2NC Datasheet



DiGi Electronics Part Number	CDRH40D28NP-2R2NC-DG
Manufacturer	<a href="#">Sumida America Components Inc.</a>
Manufacturer Product Number	CDRH40D28NP-2R2NC
Description	INDUCTOR
Detailed Description	2.2 $\mu$ H Shielded Drum Core, Wirewound Inductor 2.1 A 47mOhm Max Nonstandard

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## Purchase and inquiry

Manufacturer Product Number:

CDRH40D28NP-2R2NC

Series:

CDRH40D28

Type:

Drum Core, Wirewound

Inductance:

2.2  $\mu$ H

Current Rating (Amps):

2.1 A

Shielding:

Shielded

Q @ Freq:

-

Ratings:

-

Inductance Frequency - Test:

100 kHz

Mounting Type:

Surface Mount

Supplier Device Package:

-

Height - Seated (Max):

0.126" (3.20mm)

Manufacturer:

Sumida America Components Inc.

Product Status:

Active

Material - Core:

Ferrite

Tolerance:

$\pm$ 30%

Current - Saturation (Isat):

2.2A

DC Resistance (DCR):

47mOhm Max

Frequency - Self Resonant:

-

Operating Temperature:

-40°C ~ 105°C

Features:

-

Package / Case:

Nonstandard

Size / Dimension:

0.165" L x 0.165" W (4.20mm x 4.20mm)

## Environmental & Export classification

Moisture Sensitivity Level (MSL):

1 (Unlimited)



# SMD Power Inductor

## CDRH40D28



### Description

- Ferrite drum core construction.
- Magnetically shielded.
- L × W × H: 4.0 × 4.0 × 3.0 mm Max.
- Product weight: 0.2 g (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.

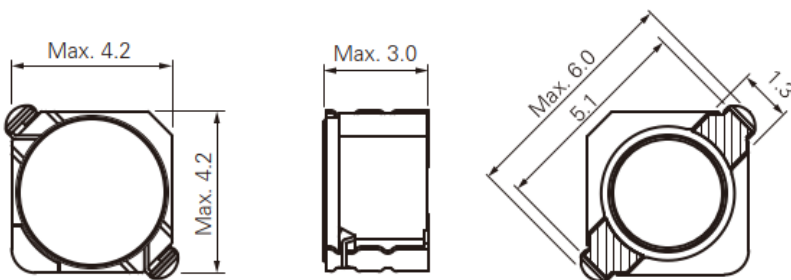
### Packaging

- Carrier tape and reel packaging
- 7.0" diameter reel
- 500pcs per reel

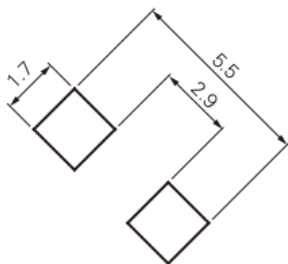
### Applications

- Ideally used in Mobilephone, PDA, MP3, DSC/DVC, Portable DVD, etc as DC-DC converter inductors.

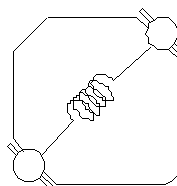
### Dimension - [mm]



### Land patterns - [mm]



### Schematics



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

# SMD Power Inductor

## CDRH40D28



### Electrical Characteristics

Part No.	Inductance ( $\mu$ H) [ within ]※1	D.C.R. (m $\Omega$ ) Max. (Typ.) (at 20°C)	Saturation Current (A) Max. (Typ.) ※2		Temperature Rise Current (A) (Typ.) ※3
			at 20°C	at 105°C	
CDRH40D28NP-1R5NC	1.5 $\pm$ 30%	42.0(33.6)	2.90 (3.57)	2.30 (2.88)	(2.40)
CDRH40D28NP-2R2NC	2.2 $\pm$ 30%	47.0(37.6)	2.20 (2.97)	1.90 (2.38)	(2.10)
CDRH40D28NP-2R7NC	2.7 $\pm$ 30%	52.0(41.2)	2.10 (2.74)	1.80 (2.25)	(2.00)
CDRH40D28NP-3R3NC	3.3 $\pm$ 30%	58.0(46.7)	1.90 (2.39)	1.60 (2.00)	(1.90)
CDRH40D28NP-4R7NC	4.7 $\pm$ 30%	63.0(50.0)	1.65 (2.02)	1.40 (1.75)	(1.75)
CDRH40D28NP-5R6NC	5.6 $\pm$ 30%	75.0(59.6)	1.50 (1.88)	1.20 (1.50)	(1.60)
CDRH40D28NP-6R8NC	6.8 $\pm$ 30%	80.0(64.0)	1.30 (1.63)	1.05 (1.31)	(1.55)
CDRH40D28NP-100PC	10 $\pm$ 25%	125(100)	1.10 (1.38)	0.90 (1.15)	(1.20)
CDRH40D28NP-120PC	12 $\pm$ 25%	151(121)	1.00 (1.25)	0.80 (1.00)	(1.10)
CDRH40D28NP-150PC	15 $\pm$ 25%	218(174)	0.90 (1.15)	0.75 (0.94)	(0.88)
CDRH40D28NP-180PC	18 $\pm$ 25%	231(185)	0.85 (1.06)	0.70 (0.88)	(0.83)
CDRH40D28NP-220PC	22 $\pm$ 25%	264(211)	0.80 (1.00)	0.65 (0.81)	(0.80)
CDRH40D28NP-330PC	33 $\pm$ 25%	420(336)	0.62 (0.78)	0.52 (0.65)	(0.55)
CDRH40D28NP-390PC	39 $\pm$ 25%	619(495)	0.60 (0.75)	0.50 (0.63)	(0.48)
CDRH40D28NP-470PC	47 $\pm$ 25%	685(548)	0.50 (0.63)	0.40(0.50)	(0.45)
CDRH40D28NP-560PC	56 $\pm$ 25%	755(604)	0.45 (0.56)	0.35 (0.44)	(0.43)
CDRH40D28NP-680PC	68 $\pm$ 25%	836(669)	0.42 (0.53)	0.32 (0.40)	(0.40)

※1 Inductance measuring condition: at 100kHz.

※2 The saturation current: This indicates the value of DC current when the inductance decreases to 65% of its initial value.

※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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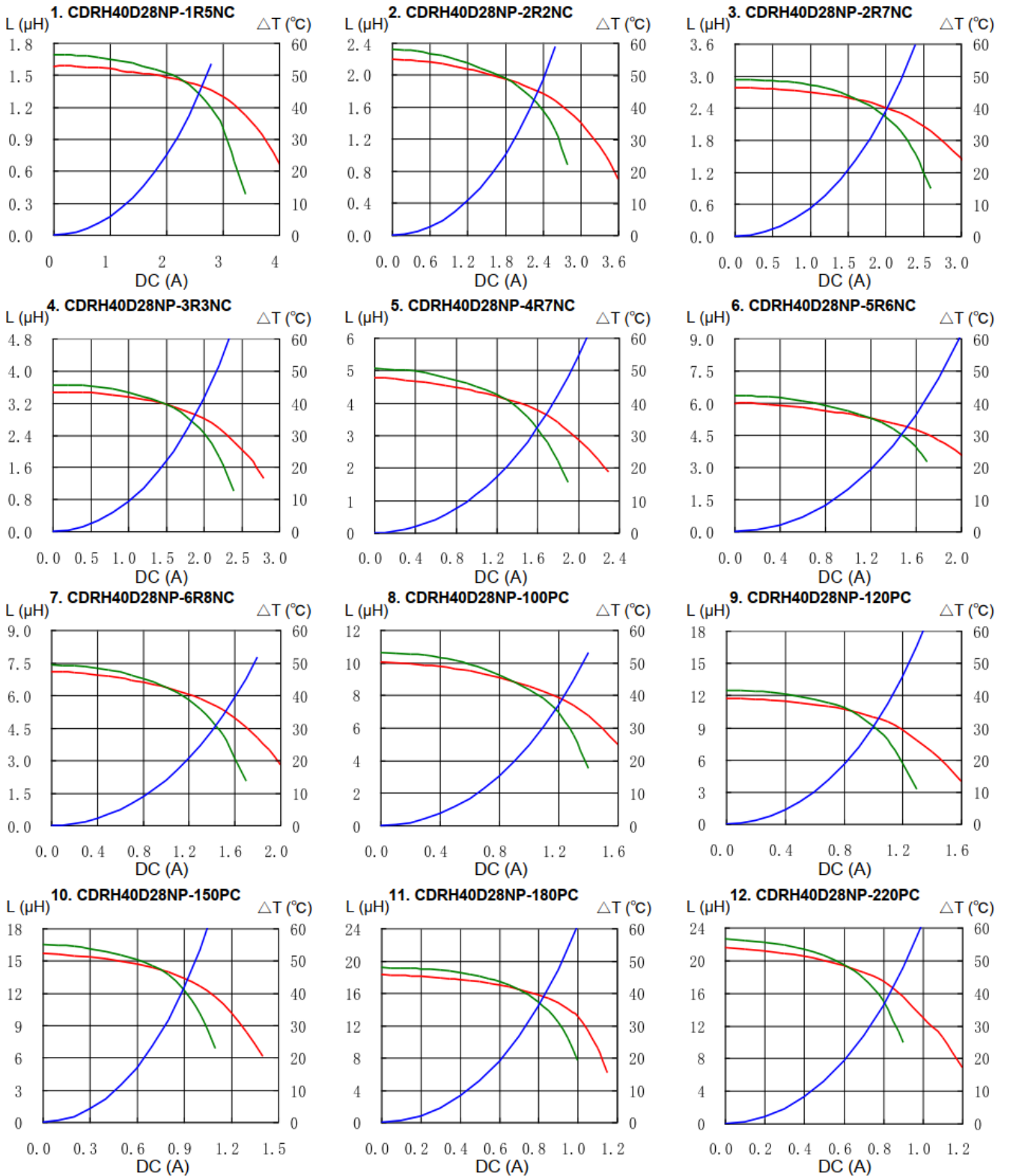


# SMD Power Inductor

## CDRH40D28



**Saturation Current & Temperature Rise Graph**      — L (20°C)      — L (100°C)      — ΔT



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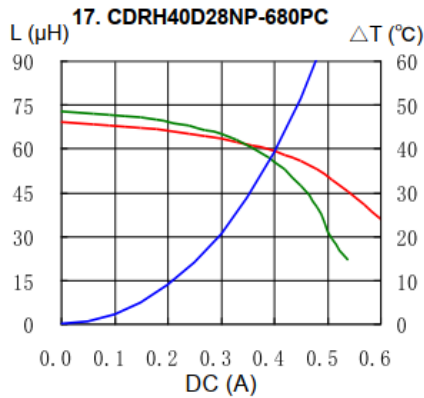
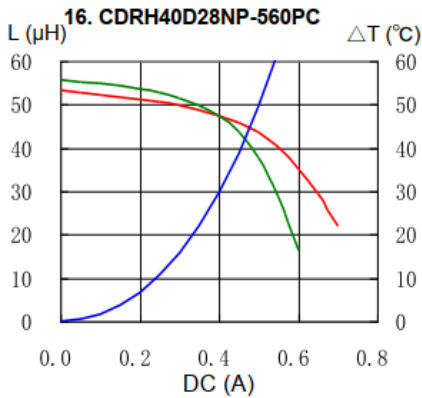
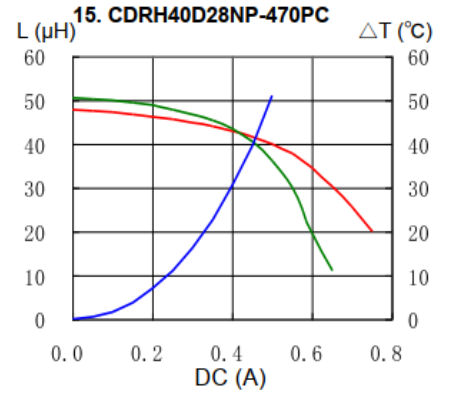
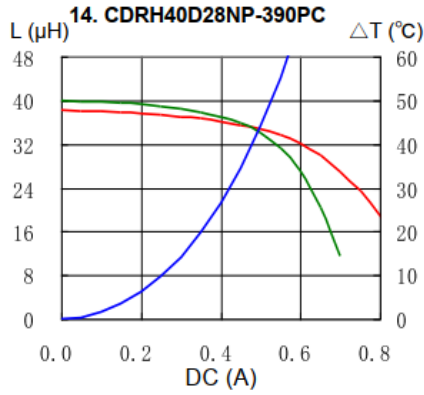
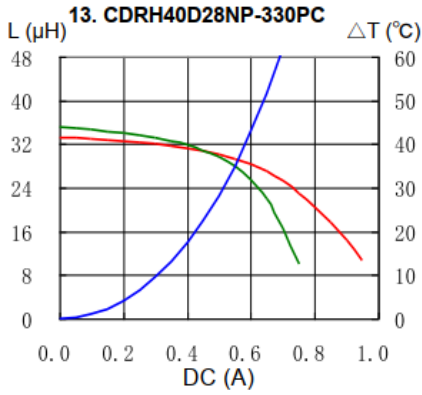
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## CDRH40D28

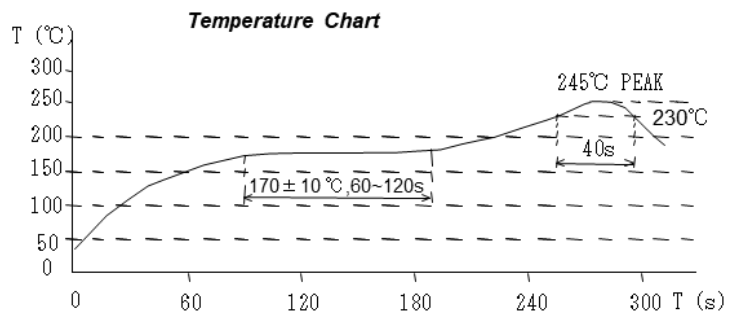
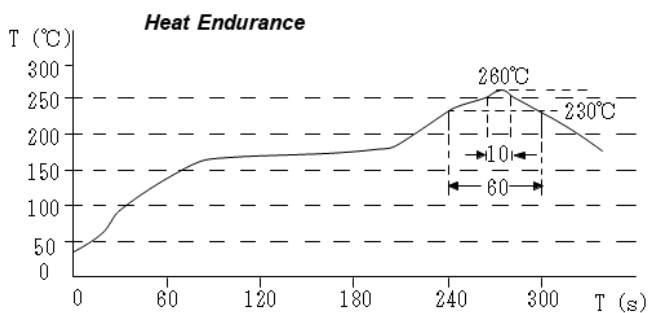


### Saturation Current & Temperature Rise Graph

— L (20°C) — L (100°C) — ΔT



### Solder Reflow Condition



For sales office information, please [click here](#) to visit our website.

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