

# CDMC8D28NP-R18MC Datasheet



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DiGi Electronics Part Number	CDMC8D28NP-R18MC-DG
Manufacturer	<a href="#">Sumida America Components Inc.</a>
Manufacturer Product Number	CDMC8D28NP-R18MC
Description	INDUCTOR
Detailed Description	180 nH Shielded Molded Inductor 25.8 A 1.6mOhm Max Nonstandard



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## Purchase and inquiry

Manufacturer Product Number:

CDMC8D28NP-R18MC

Series:

CDMC8D28

Type:

Molded

Inductance:

180 nH

Current Rating (Amps):

25.8 A

Shielding:

Shielded

Q @ Freq:

-

Ratings:

-

Inductance Frequency - Test:

1 MHz

Mounting Type:

Surface Mount

Supplier Device Package:

-

Height - Seated (Max):

0.118" (3.00mm)

Manufacturer:

Sumida America Components Inc.

Product Status:

Active

Material - Core:

Metal

Tolerance:

±20%

Current - Saturation (Isat):

28.7A

DC Resistance (DCR):

1.6mOhm Max

Frequency - Self Resonant:

-

Operating Temperature:

-40°C ~ 125°C

Features:

-

Package / Case:

Nonstandard

Size / Dimension:

0.374" L x 0.335" W (9.50mm x 8.50mm)

## Environmental & Export classification

Moisture Sensitivity Level (MSL):

1 (Unlimited)

# SMD Power Inductor

## CDMC8D28



RoHS

Halogen Free



### Description

- Metal compound molding type construction.
- Magnetically shielded.
- L × W × H: 9.5 × 8.7 × 3.0 mm Max.
- Product weight: 1.2 g (Ref.)
- Moisture Sensitivity Level: 1
- RoHS compliance.
- Halogen Free available.

### Environmental Data

- Operating temperature range: -40°C ~ +125°C (including coil's self temperature rise)
- Storage temperature range: -40°C ~ +85°C
- Solder reflow temperature: 260 °C peak.

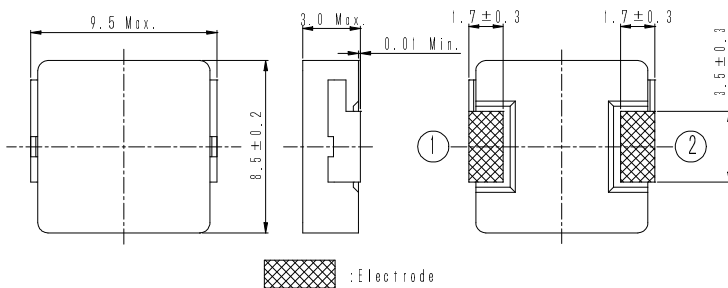
### Packaging

- Carrier tape and reel packaging.
- 13.0" diameter reel
- 1000pcs per reel

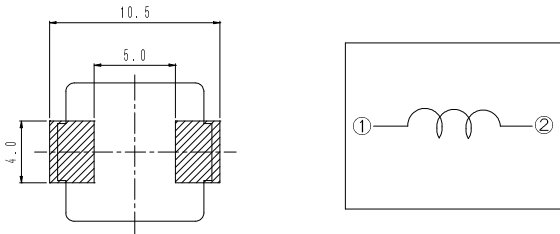
### Applications

- Ideally used in low voltage-high current laptop PC & sever power supply.

### Dimension - [mm]



### Land pattern and Schematics - [mm]



### Electrical Characteristics

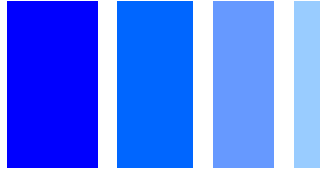
Part No.	Stamp	Inductance (μH) [Within] ※1	D.C.R. (mΩ) [Max.] (Typ.) (at 20°C)	Saturation current (A) (at 20°C) ※2	Temperature rise current (A) ※3
CDMC8D28NP-R18MC	R18	0.18 ± 20%	1.6(1.33)	28.7(35.9)	25.8
CDMC8D28NP-R39MC	R39	0.39 ± 20%	2.8(2.32)	19.8(24.7)	19.9
CDMC8D28NP-R68MC	R68	0.68 ± 20%	4.6(3.84)	16.0(20.0)	15.4
CDMC8D28NP-1R2MC	1R2	1.2 ± 20%	7.0(5.80)	12.2(15.3)	12.9
CDMC8D28NP-1R8MC	1R8	1.8 ± 20%	12.6(10.5)	9.4(11.8)	9.3
CDMC8D28NP-2R2MC	2R2	2.2 ± 20%	16.1(13.4)	8.8(11.0)	8.1
CDMC8D28NP-3R3MC	3R3	3.3 ± 20%	22.2(18.5)	7.0(8.8)	7.3
CDMC8D28NP-3R9MC	3R9	3.9 ± 20%	24.1(20.1)	6.4(8.0)	7.1

※1. Measuring condition: at 1MHz.

※2. Saturation current: The value of D.C. current when the inductance decreases to 80% of it's nominal value.

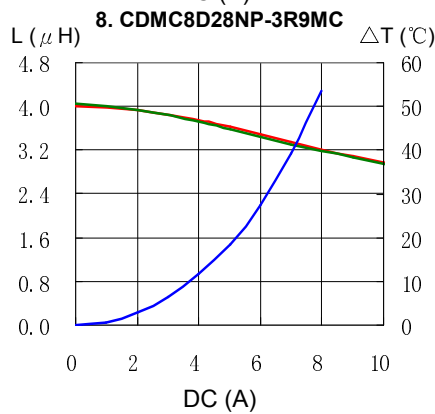
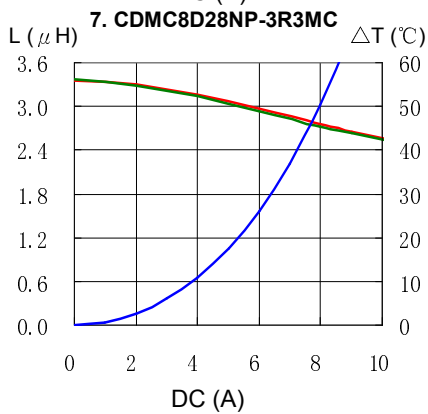
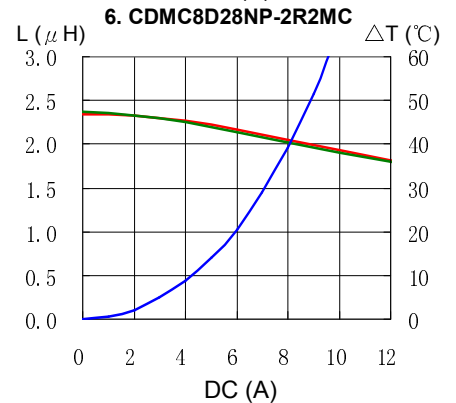
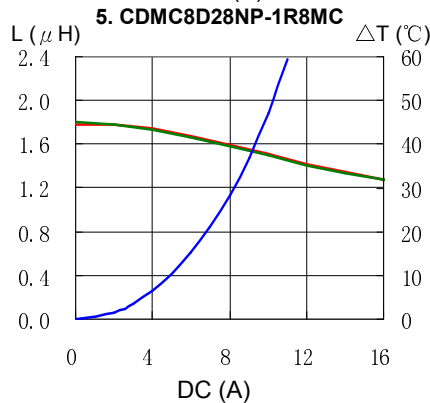
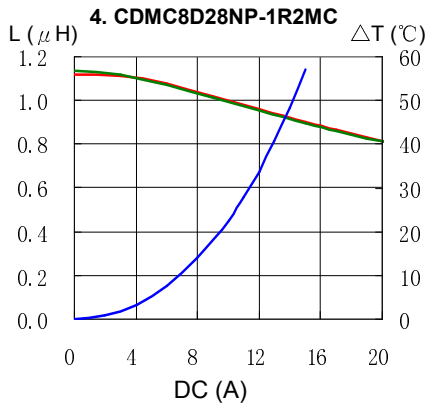
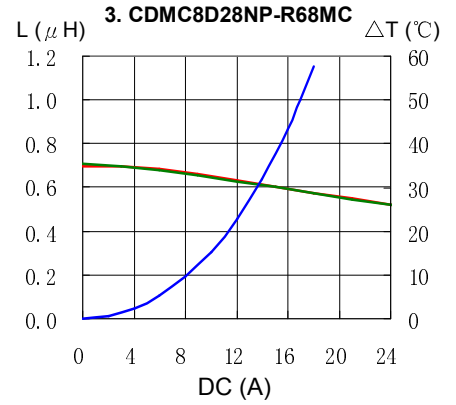
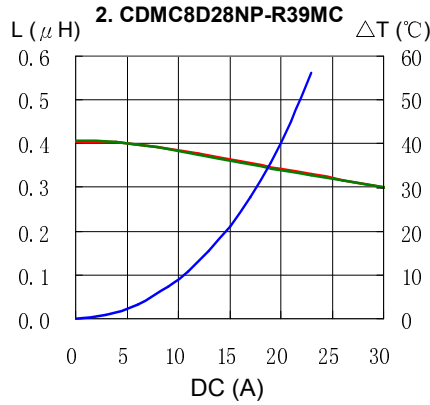
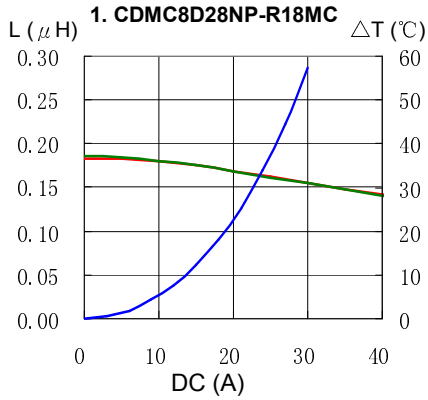
※3. Temperature rise current: The value of D.C. current when the temperature rise is Δt=40°C (Ta=20°C).

# SMD Power Inductor CDMC8D28



## Saturation Current & Temperature Rise Graph

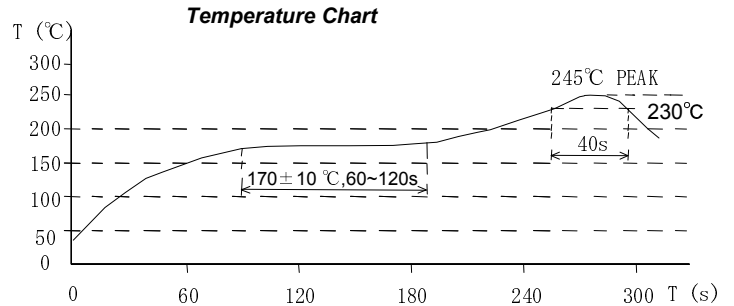
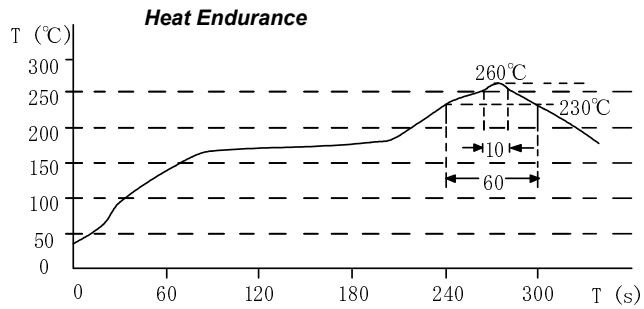
— L (20°C) — L (125°C) —  $\Delta T$



# SMD Power Inductor CDMC8D28



## Solder Reflow Condition



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

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