



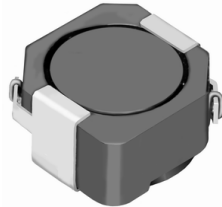
**THE DATASHEET OF  
CDRH5D28RNP-5R0NC**



# SMD Power Inductor CDRH5D28R



Halogen Free



## Description

- Ferrite drum core construction.
- Magnetically shielded.
- L × W × H: 6.3 × 6.2 × 3.0 mm Max.
- Product weight: 0.4g(Ref.)
- Moisture Sensitivity Level: 1
- RoHS compliance.
- Halogen Free available.

## Environmental Data

- Operating temperature range: -40°C~+100°C (including coil's self temperature rise)
- Storage temperature range: -40°C~+100°C
- Solder reflow temperature: 260 °C peak.

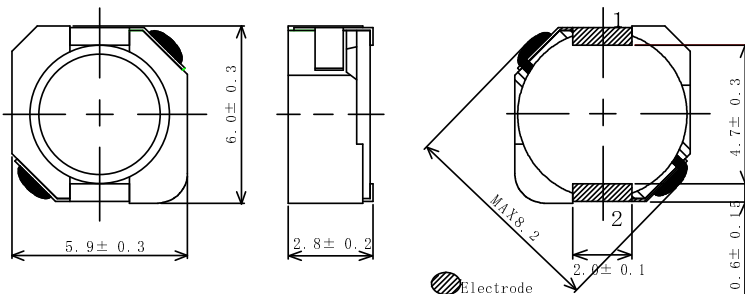
## Packaging

- Carrier tape and reel packaging
- 13.0" diameter reel
- 2000pcs per reel

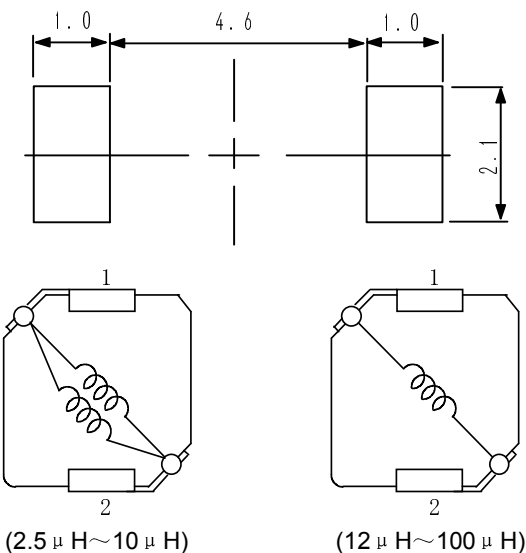
## Applications

- Ideally used in Notebook PC, HDD, DSC/DVC, LCD TV, Game machine etc. as converter inductors.

## Dimension - [mm]



## Land pattern and Schematics - [mm]



# SMD Power Inductor CDRH5D28R



## Electrical Characteristics

Part Name	Stamp	Inductance ( $\mu$ H) [ within ] ※1	D.C.R. (m $\Omega$ ) [Max.] (Typ.) (at 20°C)	Rated Current (A) ※2
CDRH5D28RNP-2R5NC	2R5	2.5 $\pm$ 30%	17.6(13)	2.60
CDRH5D28RNP-3R3NC	3R3	3.3 $\pm$ 30%	20.3(15)	2.30
CDRH5D28RNP-4R0NC	4R0	4.0 $\pm$ 30%	27.0(20)	2.10
CDRH5D28RNP-5R0NC	5R0	5.0 $\pm$ 30%	31.1(23)	1.85
CDRH5D28RNP-6R0NC	6R0	6.0 $\pm$ 30%	41.9(31)	1.70
CDRH5D28RNP-8R0NC	8R0	8.0 $\pm$ 30%	49.9(37)	1.50
CDRH5D28RNP-100NC	100	10 $\pm$ 30%	54.0(40)	1.30
CDRH5D28RNP-120NC	120	12 $\pm$ 30%	71.6(53)	1.20
CDRH5D28RNP-150NC	150	15 $\pm$ 30%	82.4(61)	1.10
CDRH5D28RNP-180NC	180	18 $\pm$ 30%	101.5(75)	1.05
CDRH5D28RNP-220NC	220	22 $\pm$ 30%	119.0(88)	0.95
CDRH5D28RNP-270NC	270	27 $\pm$ 30%	146.0(108)	0.85
CDRH5D28RNP-330NC	330	33 $\pm$ 30%	182.5(135)	0.76
CDRH5D28RNP-390NC	390	39 $\pm$ 30%	209.5(155)	0.68
CDRH5D28RNP-470NC	470	47 $\pm$ 30%	229.5(170)	0.60
CDRH5D28RNP-560NC	560	56 $\pm$ 30%	305.0(226)	0.55
CDRH5D28RNP-680NC	680	68 $\pm$ 30%	351.0(260)	0.48
CDRH5D28RNP-820NC	820	82 $\pm$ 30%	418.5(310)	0.45
CDRH5D28RNP-101NC	101	100 $\pm$ 30%	520.0(385)	0.40

※1. Inductance measuring condition: at 100kHz.

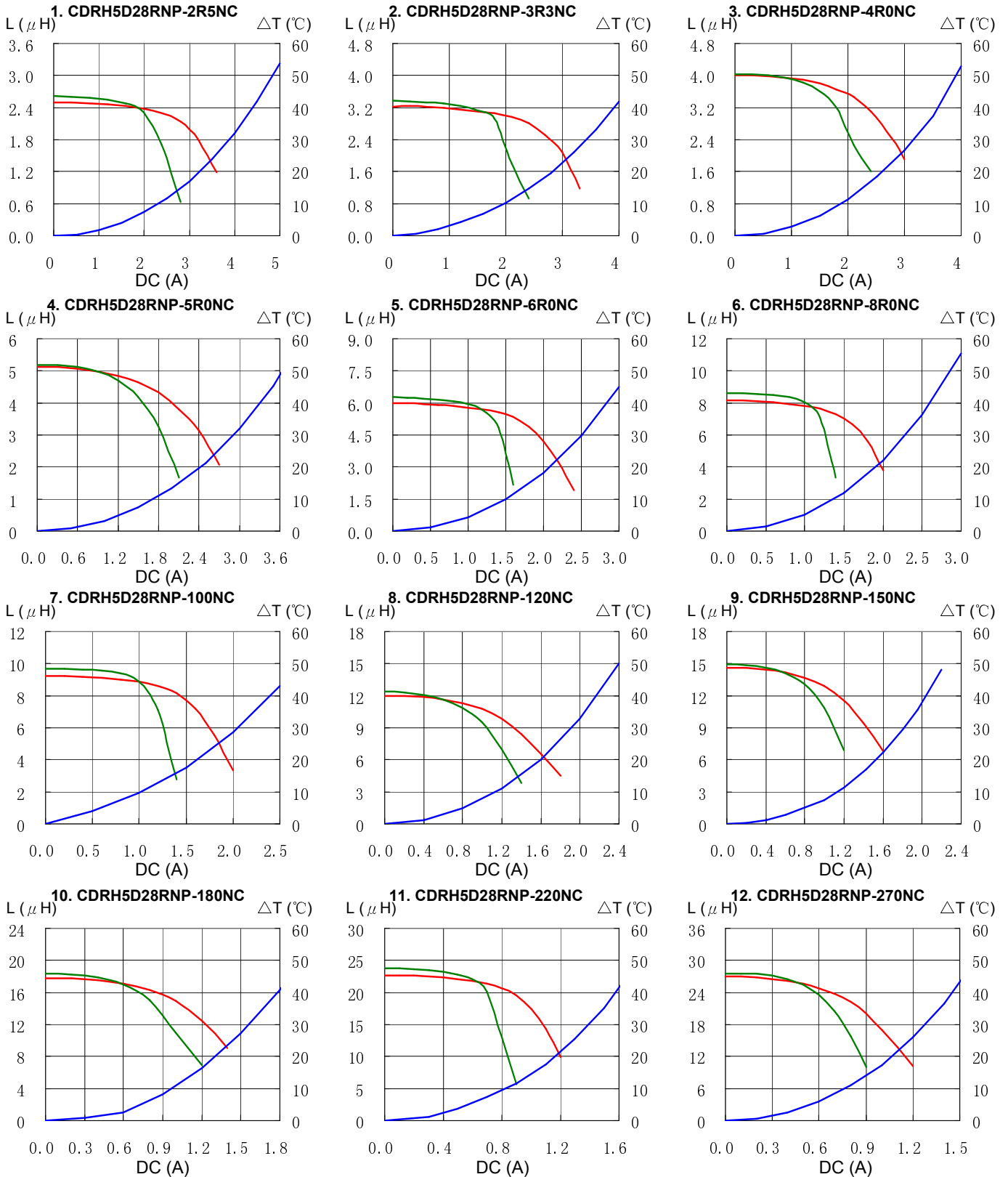
※2. Rated current: The DC current at which the inductance decreases to 65% of it's nominal value or when  $\Delta t=30^{\circ}\text{C}$ , whichever is lower ( $T_a=20^{\circ}\text{C}$ ).

# SMD Power Inductor CDRH5D28R



## Saturation Current & Temperature Rise Graph

— L (20°C) — L (105°C) —  $\Delta T$

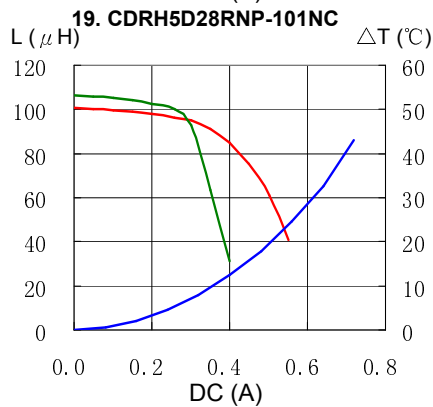
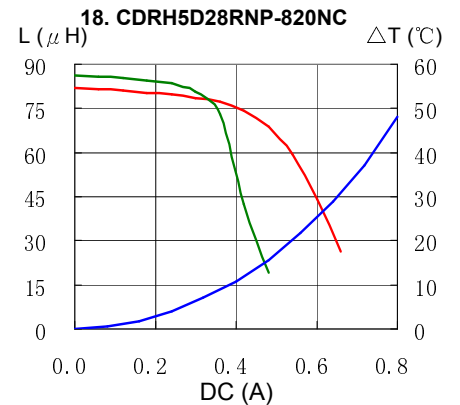
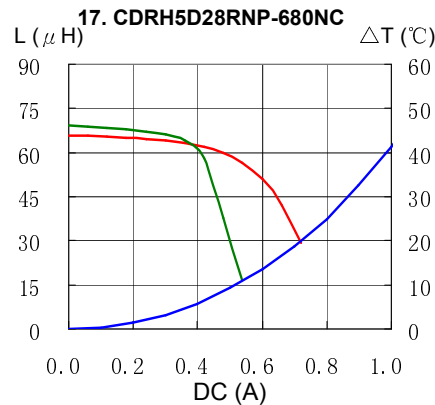
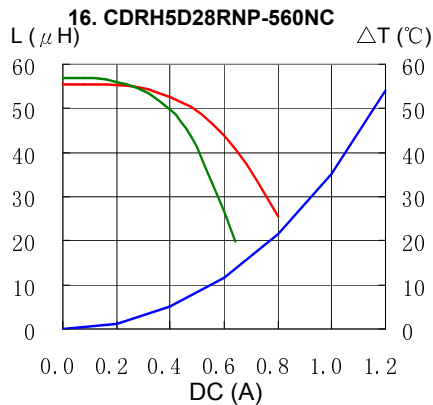
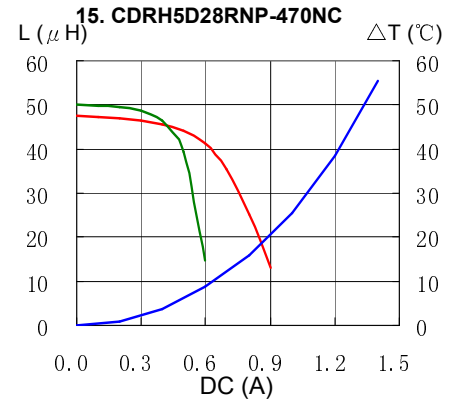
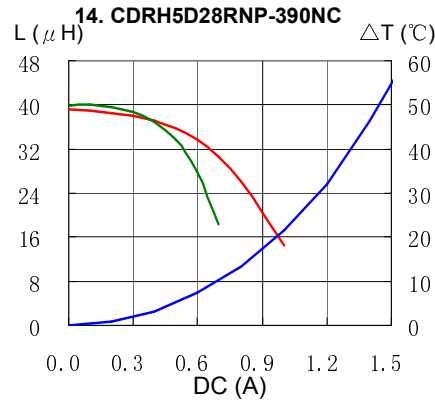
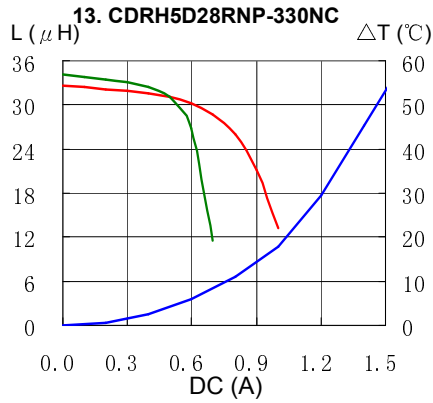


# SMD Power Inductor CDRH5D28R



## Saturation Current & Temperature Rise Graph

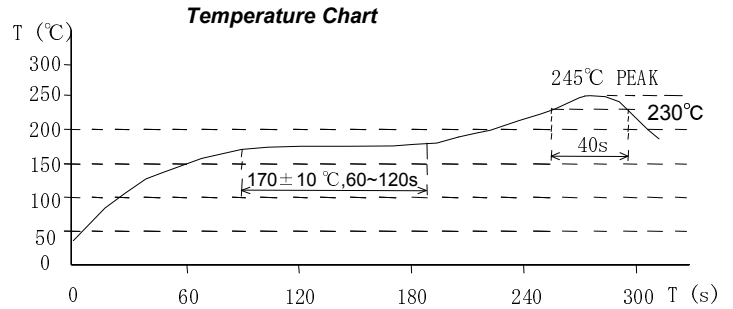
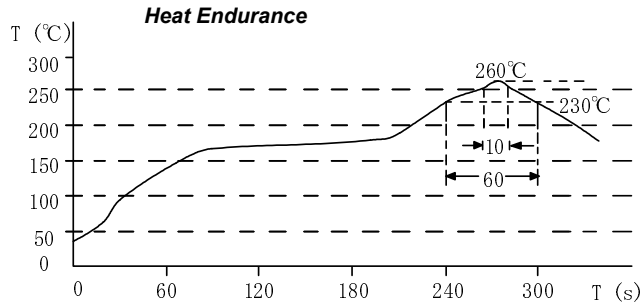
— L (20°C) — L (105°C) —  $\Delta T$



# SMD Power Inductor CDRH5D28R



## 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)

### Oberzell

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)

## Looking for pricing, stock, or lifecycle information?

Click below to explore more details on WIN SOURCE:

- ⊖ [View CDRH5D28RNP-5R0NC on WIN SOURCE](#)
- ⊖ [Sumida America Components Inc. Information](#)

## Optimize Your Supply Chain with WIN SOURCE Solutions

- ✓ Global Sourcing Solution
- ✓ Obsolete Management
- ✓ Cost Control Management
- ✓ Shortage Management
- ✓ Alternative Solution
- ✓ Excess Inventory Management