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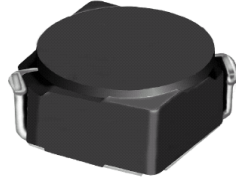
Tel: +86-755-8981 8866 Fax: +86-755-8427 6832

Email & Skype: info@chipsmall.com Web: www.chipsmall.com

Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China



# SMD Power Inductor CDRH5D28



## Description

- Ferrite drum core construction.
- Magnetically shielded.
- L × W × H: 6.0 × 6.0 × 3.0 mm Max.
- Product weight: 0.4g (Ref.)
- Moisture Sensitivity Level: 1
- RoHS compliance.

## 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.

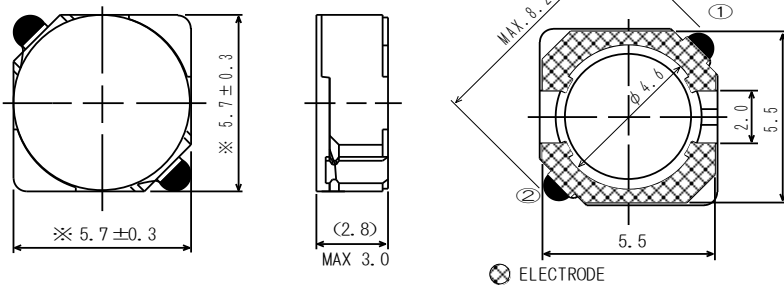
## Packaging

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

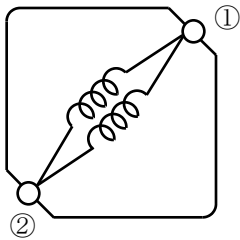
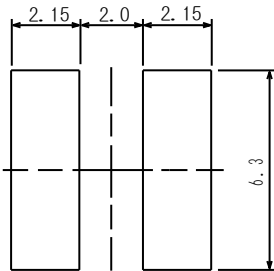
## Applications

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

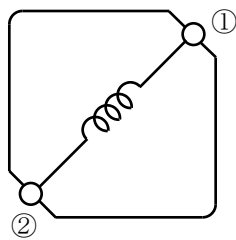
## Dimension - [mm]



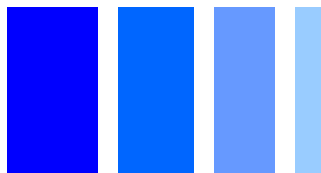
## Land pattern and Schematics - [mm]



(2.5μH ~ 8.2μH)



(10μH ~ 100μH)



### Electrical Characteristics

Part Name	Stamp	Inductance ( $\mu\text{H}$ ) [within] ※1	D.C.R. ( $\Omega$ ) [Max.] (Typ.) (at 20°C)	Rated Current (A) ※2
CDRH5D28NP-2R5NC	2R5	2.5 $\pm$ 30%	18m (13m)	2.60
CDRH5D28NP-3R0NC	3R0	3.0 $\pm$ 30%	24m (18m)	2.40
CDRH5D28NP-4R2NC	4R2	4.2 $\pm$ 30%	31m (23m)	2.20
CDRH5D28NP-5R3NC	5R3	5.3 $\pm$ 30%	38m (28m)	1.90
CDRH5D28NP-6R2NC	6R2	6.2 $\pm$ 30%	45m (33m)	1.80
CDRH5D28NP-8R2NC	8R2	8.2 $\pm$ 30%	53m (39m)	1.60
CDRH5D28NP-100NC	100	10 $\pm$ 30%	65m (48m)	1.30
CDRH5D28NP-120NC	120	12 $\pm$ 30%	76m (56m)	1.20
CDRH5D28NP-150NC	150	15 $\pm$ 30%	103m (76m)	1.10
CDRH5D28NP-180NC	180	18 $\pm$ 30%	110m (82m)	1.00
CDRH5D28NP-220NC	220	22 $\pm$ 30%	122m (90m)	0.90
CDRH5D28NP-270NC	270	27 $\pm$ 30%	175m(130m)	0.85
CDRH5D28NP-330NC	330	33 $\pm$ 30%	189m(140m)	0.75
CDRH5D28NP-390NC	390	39 $\pm$ 30%	212m(157m)	0.70
CDRH5D28NP-470NC	470	47 $\pm$ 30%	250m(185m)	0.62
CDRH5D28NP-560NC	560	56 $\pm$ 30%	305m(226m)	0.58
CDRH5D28NP-680NC	680	68 $\pm$ 30%	355m(263m)	0.52
CDRH5D28NP-820NC	820	82 $\pm$ 30%	463m(343m)	0.46
CDRH5D28NP-101NC	101	100 $\pm$ 30%	520m(385m)	0.42

※1. Inductance measuring condition: at 100kHz.

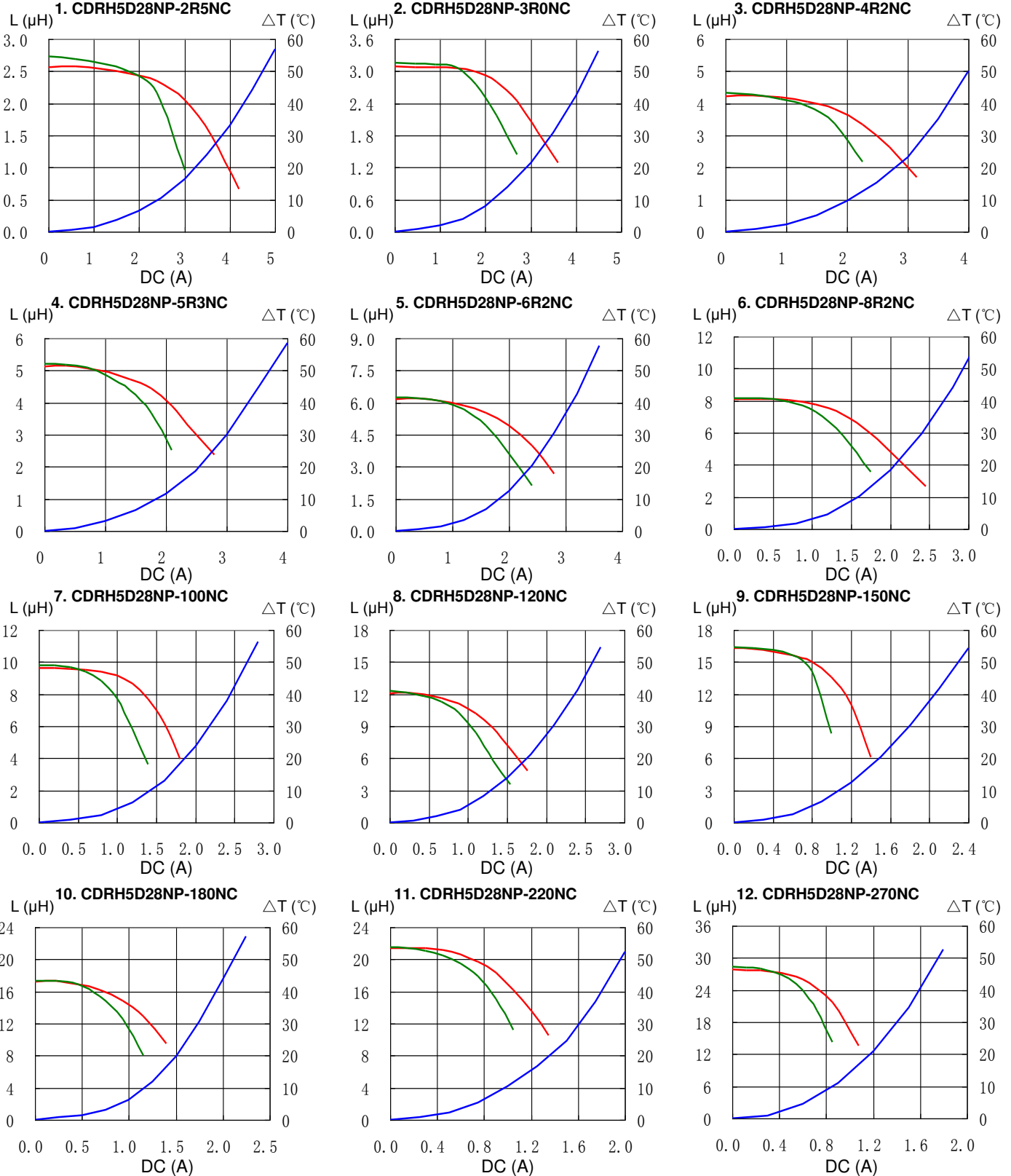
※2. Rated current: The DC current at which the inductance decreases to 65% of it's nominal value or when  $\Delta t=30^\circ\text{C}$ , whichever is lower ( $T_a=20^\circ\text{C}$ ).

# SMD Power Inductor CDRH5D28



## Saturation Current & Temperature Rise Graph

— L (20°C) — L (105°C) —  $\Delta T$

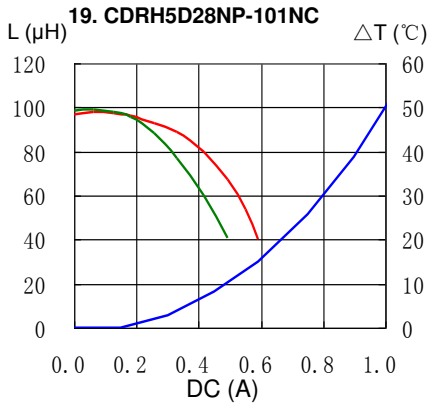
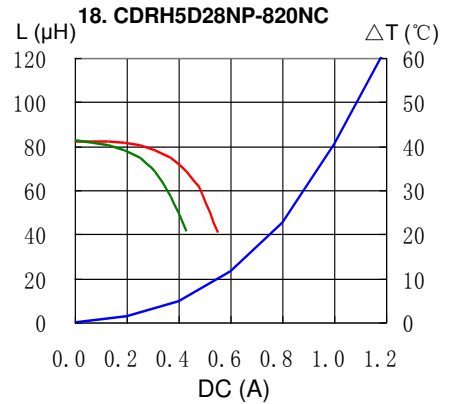
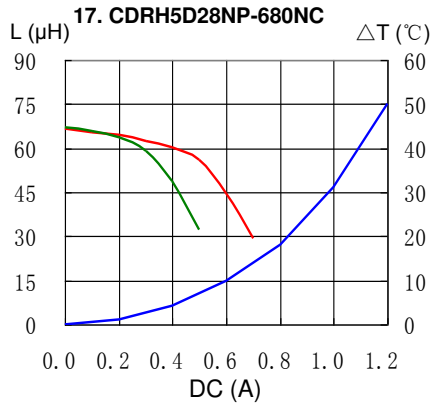
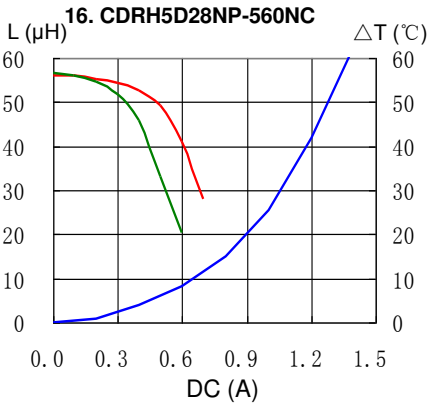
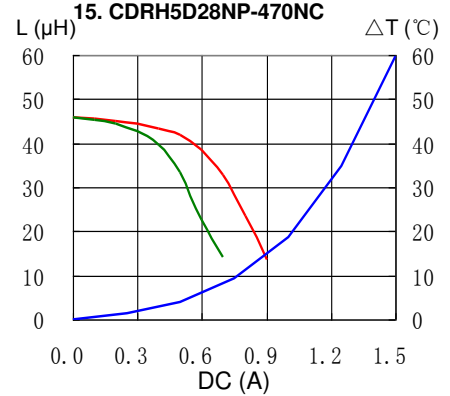
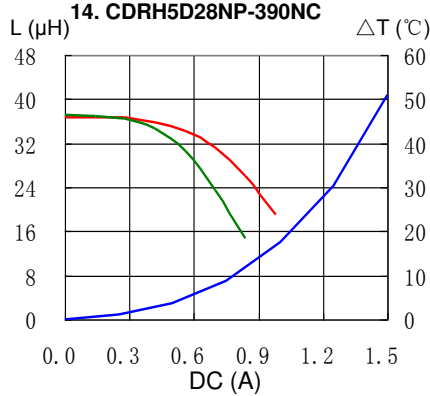
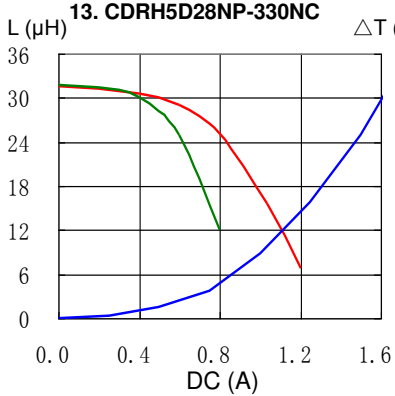


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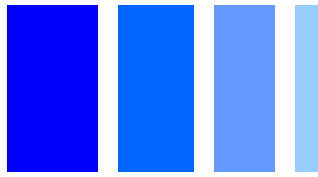


## Saturation Current & Temperature Rise Graph

— L (20°C) — L (105°C) —  $\Delta T$

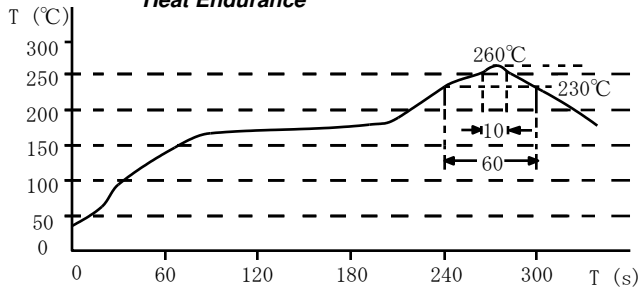


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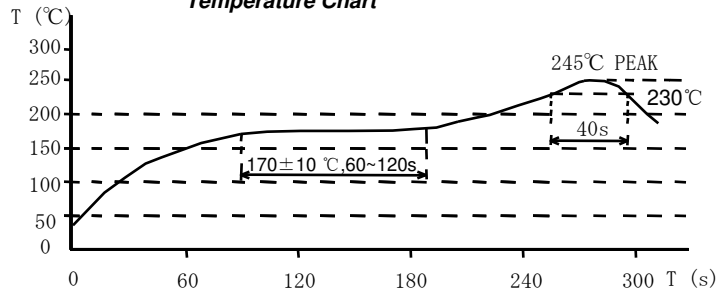


## Solder Reflow Condition

Heat Endurance



Temperature Chart



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### 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)