

# SMD Power Inductor

## CDRH5D28R



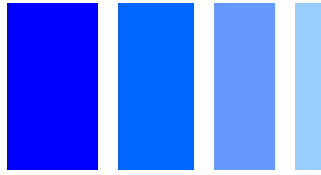
### Electrical Characteristics

| Part Name         | Stamp | Inductance<br>( $\mu\text{H}$ )<br>[ within ] ※1 | D.C.R. (m $\Omega$ )<br>[Max.] (Typ.)<br>(at 20°C) | Rated Current<br>(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.

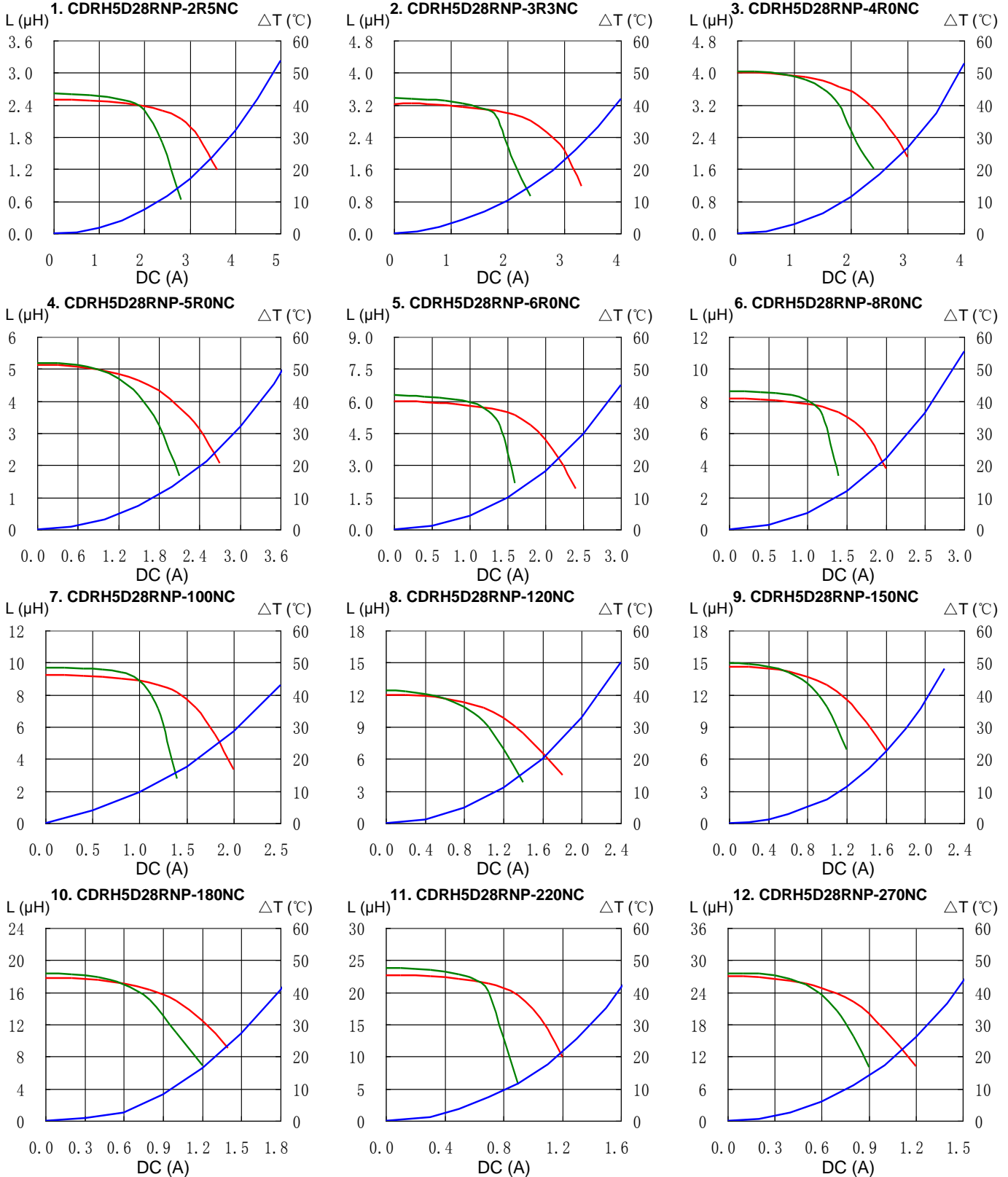
※2. Rated current: The DC current at which the inductance decreases to 65% of its nominal value or when  $\Delta t=30^\circ\text{C}$ , whichever is lower ( $T_a=20^\circ\text{C}$ ).

# SMD Power Inductor CDRH5D28R



## Saturation Current & Temperature Rise Graph

— L (20°C) — L (105°C) —  $\Delta T$

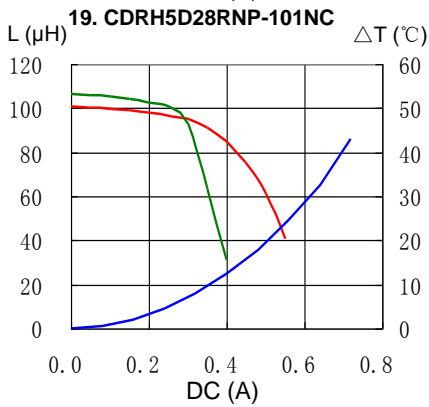
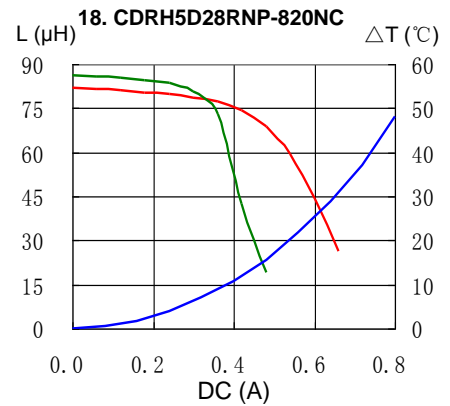
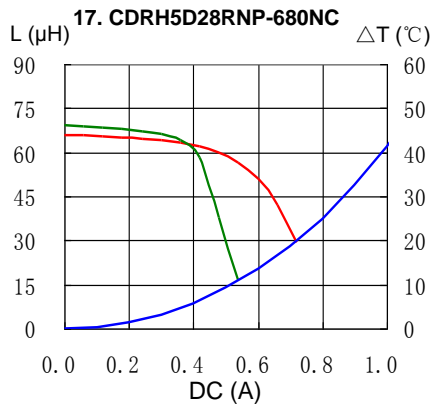
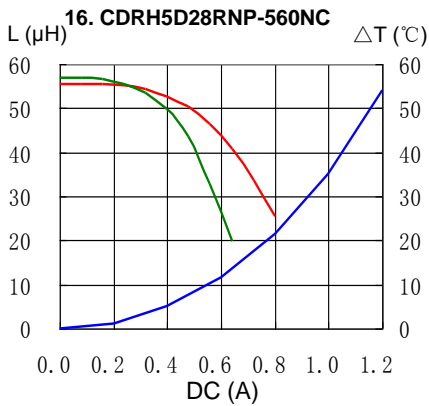
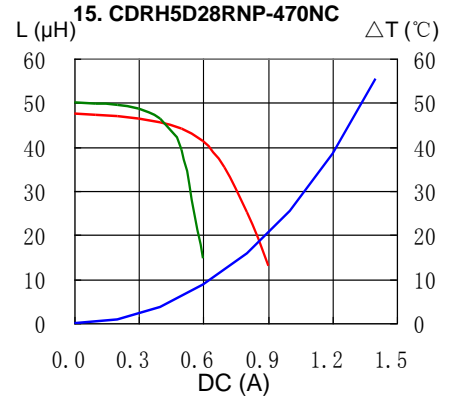
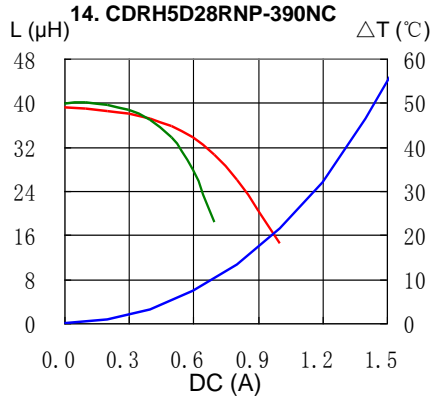
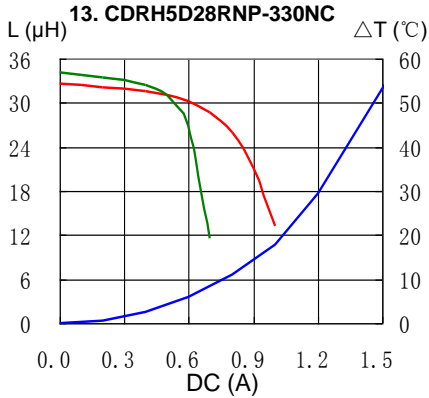


# SMD Power Inductor CDRH5D28R

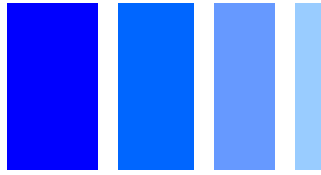


## Saturation Current & Temperature Rise Graph

— L (20°C) — L (105°C) —  $\Delta T$

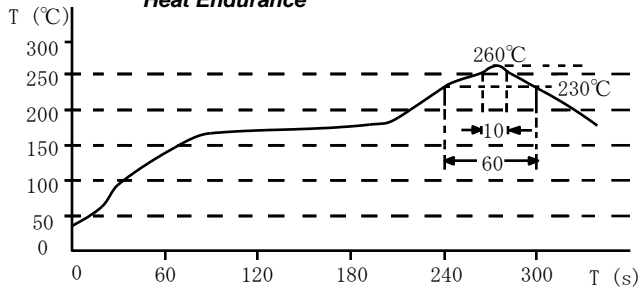


# SMD Power Inductor CDRH5D28R

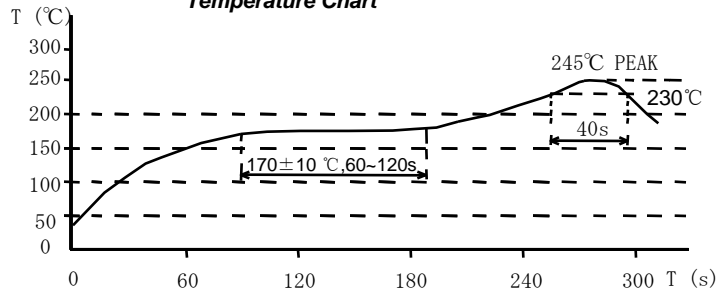


## Solder Reflow Condition

Heat Endurance



Temperature Chart



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)

### 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)

# Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

## Sumida:

[CDRH5D28RNP-330NC](#) [CDRH5D28RNP-180NC](#) [CDRH5D28RNP-3R3NC](#) [CDRH5D28RNP-680NC](#)  
[CDRH5D28RNP-4R0NC](#) [CDRH5D28RNP-150NC](#) [CDRH5D28RNP-270NC](#) [CDRH5D28RNP-8R0NC](#)  
[CDRH5D28RNP-470NC](#) [CDRH5D28RNP-120NC](#) [CDRH5D28RNP-6R0NC](#) [CDRH5D28RNP-820NC](#) [CDRH5D28RNP-](#)  
[100NC](#) [CDRH5D28RNP-5R0NC](#) [CDRH5D28RNP-390NC](#) [CDRH5D28RNP-2R5NC](#) [CDRH5D28RNP-220NC](#)  
[CDRH5D28RNP-560NC](#) [CDRH5D28RNP-101NC](#)