

# SMD Power Inductor

## CDPH28D11F



### Description

- Ferrite core construction.
- Magnetically shielded.
- L × W × H: 3.2 × 3.0 × 1.2mm Max.
- Product weight: 34mg(Ref.)
- Moisture Sensitivity Level: 1
- RoHS compliance.

### Environmental Data

- Operating temperature range: -40℃~+105℃ (including coil's self temperature rise)
- Storage temperature range: -40℃~+105℃
- Solder reflow temperature: 260℃ peak.

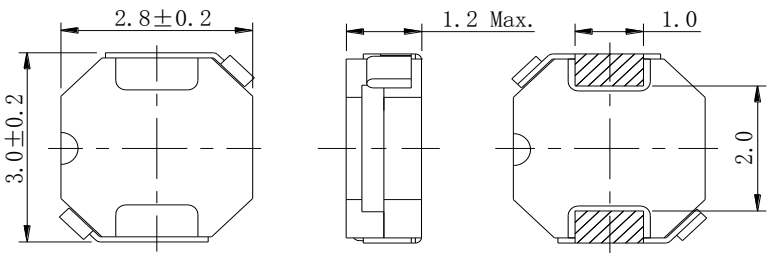
### Packaging

- Carrier tape and reel packaging.
- 7.0" diameter reel
- 1500pcs per reel

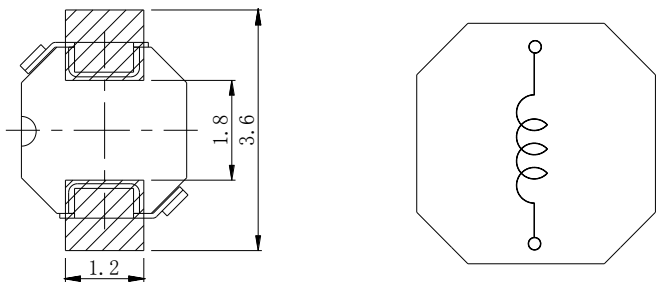
### Applications

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

### Dimension - [mm]



### Land pattern and Schematics - [mm]



### Electrical Characteristics

| Part No.           | Stamp | Inductance<br>( $\mu$ H)<br>[ Within ] ※1 | D.C.R. (m $\Omega$ )<br>Max. (Typ.) | Saturation Current<br>(A) ※2 |            | Temperature<br>Rise Current<br>(A) ※3 |
|--------------------|-------|-------------------------------------------|-------------------------------------|------------------------------|------------|---------------------------------------|
|                    |       |                                           |                                     | at 25℃                       | at 100℃    |                                       |
| CDPH28D11FNP-1R0NC | A     | 1.0 $\pm$ 30%                             | 62(49)                              | 1.78(2.37)                   | 1.60(2.00) | 1.83(2.08)                            |
| CDPH28D11FNP-1R2NC | B     | 1.2 $\pm$ 30%                             | 73(58)                              | 1.78(2.37)                   | 1.60(2.00) | 1.83(2.08)                            |
| CDPH28D11FNP-1R5MC | C     | 1.5 $\pm$ 20%                             | 86(69)                              | 1.59(2.12)                   | 1.45(1.85) | 1.74(1.98)                            |
| CDPH28D11FNP-2R2MC | D     | 2.2 $\pm$ 20%                             | 96(77)                              | 1.31(1.75)                   | 1.15(1.45) | 1.72(1.94)                            |
| CDPH28D11FNP-2R7MC | E     | 2.7 $\pm$ 20%                             | 116(93)                             | 1.22(1.63)                   | 1.10(1.40) | 1.49(1.69)                            |
| CDPH28D11FNP-3R3MC | F     | 3.3 $\pm$ 20%                             | 128(102)                            | 1.14(1.52)                   | 1.05(1.30) | 1.42(1.58)                            |
| CDPH28D11FNP-3R9MC | G     | 3.9 $\pm$ 20%                             | 144(115)                            | 1.03(1.37)                   | 0.90(1.10) | 1.34(1.53)                            |
| CDPH28D11FNP-4R7MC | J     | 4.7 $\pm$ 20%                             | 184(147)                            | 0.95(1.27)                   | 0.65(0.85) | 1.18(1.32)                            |
| CDPH28D11FNP-6R8MC | K     | 6.8 $\pm$ 20%                             | 300(240)                            | 0.83(1.10)                   | 0.60(0.75) | 0.89(1.00)                            |
| CDPH28D11FNP-100MC | L     | 10.0 $\pm$ 20%                            | 408(326)                            | 0.65(0.87)                   | 0.55(0.70) | 0.76(0.86)                            |
| CDPH28D11FNP-120MC | P     | 12.0 $\pm$ 20%                            | 453(362)                            | 0.59(0.79)                   | 0.50(0.60) | 0.73(0.83)                            |

※1. Inductance measuring condition: at 100kHz.

※2. Saturation current: The value of D.C. current when the inductance decreases to 70% of it's nominal value.

※3. Temperature rise current: The value of D.C. current when the temperature rise is  $\Delta t = 40^{\circ}\text{C}$  ( $T_a = 20^{\circ}\text{C}$ ).

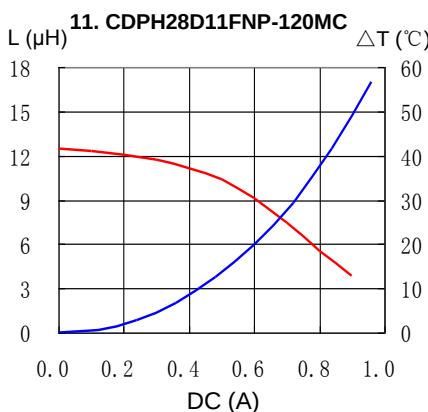
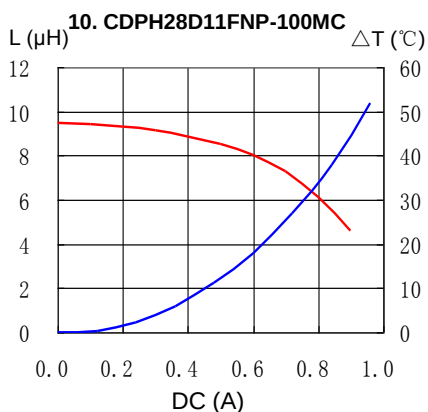
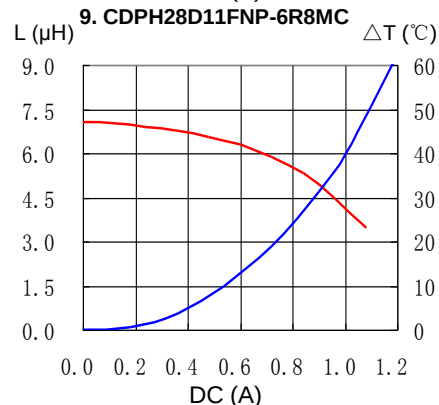
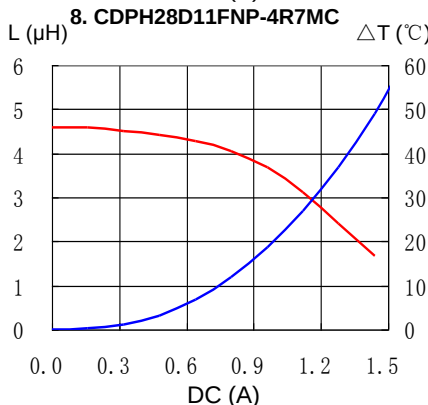
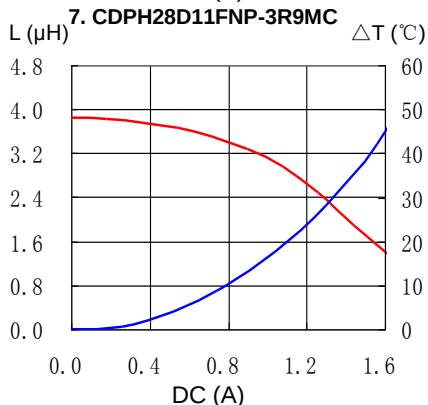
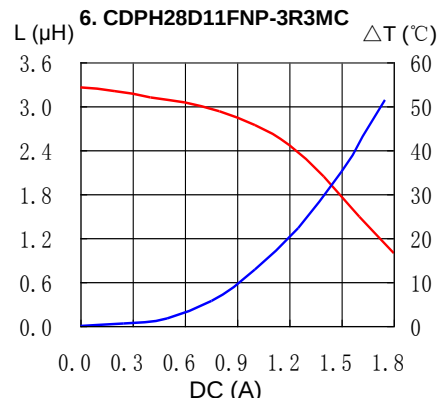
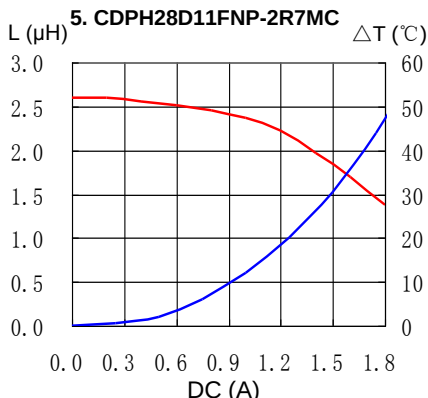
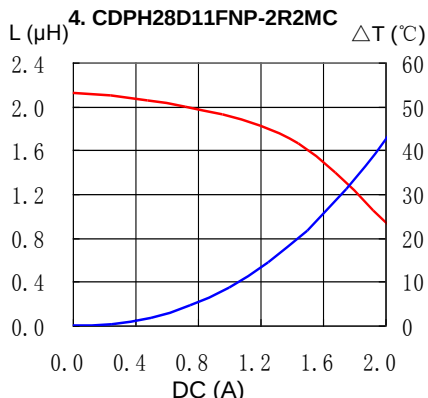
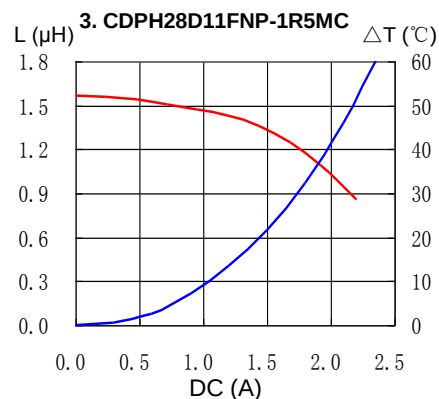
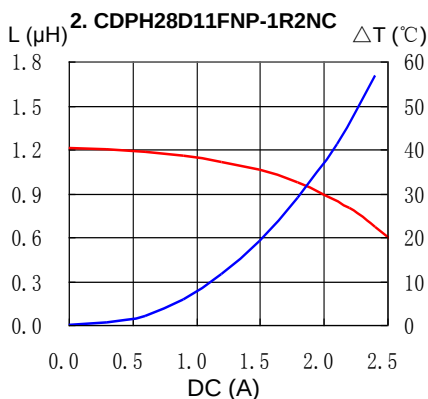
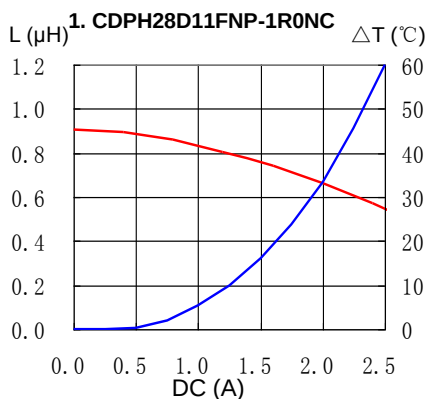
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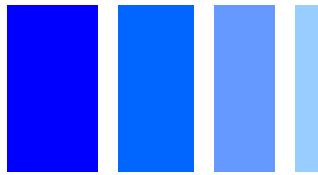


### Saturation Current & Temperature Rise Graph

— L (20°C) —  $\Delta T$

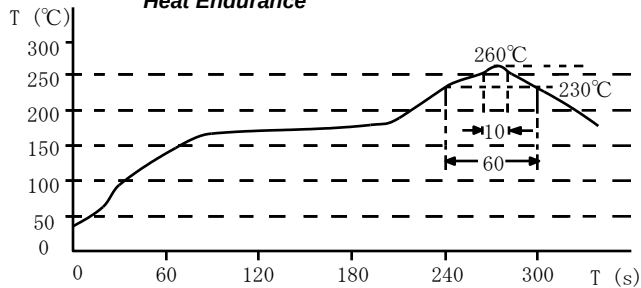


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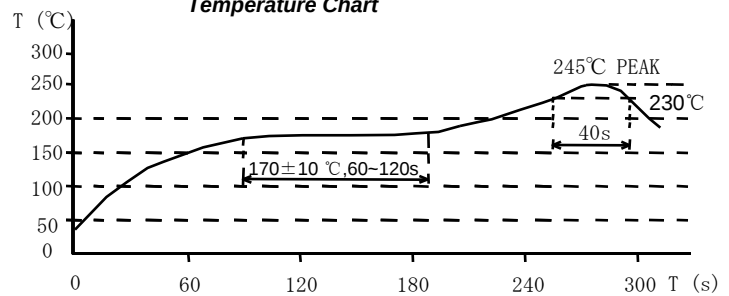


## Solder Reflow Condition

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)