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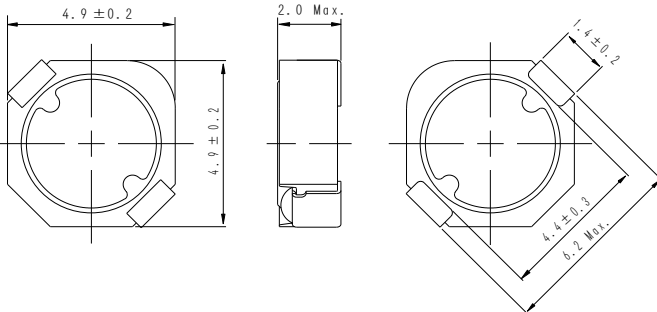
Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China



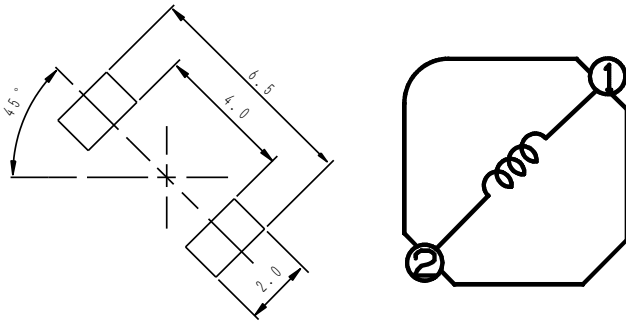
# SMD Power Inductor CDRH4D18C/LD



## Dimension - [mm]



## Land pattern and Schematics - [mm]



## Description

- Ferrite drum core construction.
- Magnetically shielded.
- L × W × H: 5.1 × 5.1 × 2.0 mm Max.
- Product weight: 135mg (Ref.)
- Moisture Sensitivity Level: 1
- RoHS compliance.

## Environmental Data

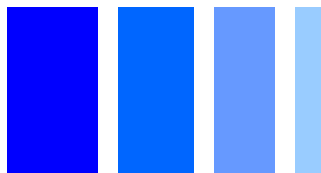
- Operating temperature range: -40°C ~ +105°C (including coil's self temperature rise)
- Storage temperature range: -40°C ~ +105°C
- Solder reflow temperature: 260 °C peak.

## Packaging

- Carrier tape and reel packaging
- 7.0" diameter reel
- 1000pcs per reel

## Applications

- Ideally used in Mobile phone, PDA, MP3, HDD, DSC/DVC, Note book PC, etc as DC-DC converter inductors.



### Electrical Characteristics

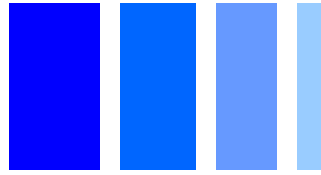
| Part No.            | Stamp | Inductance<br>( $\mu\text{H}$ )<br>[ within ] ※1 | D.C.R. (m $\Omega$ )<br>Max. (Typ.)<br>(at 20°C) | Saturation<br>Current<br>(A) ※2 | Temperature<br>Rise Current<br>(A) ※3 |
|---------------------|-------|--|--|---------------------------------|---------------------------------------|
| CDRH4D18CLDNP-1R1PC | A     | 1.1 $\pm$ 25%                                    | 24(19)   | 2.10                            | 3.50                                  |
| CDRH4D18CLDNP-2R2PC | B     | 2.2 $\pm$ 25%                                    | 31(25)   | 1.30                            | 2.80                                  |
| CDRH4D18CLDNP-3R3PC | C     | 3.3 $\pm$ 25%                                    | 49(39)   | 1.10                            | 2.20                                  |
| CDRH4D18CLDNP-4R7PC | D     | 4.7 $\pm$ 25%                                    | 61(49)   | 0.90                            | 2.00                                  |
| CDRH4D18CLDNP-6R3PC | E     | 6.3 $\pm$ 25%                                    | 74(59)   | 0.75                            | 1.60                                  |
| CDRH4D18CLDNP-100PC | F     | 10 $\pm$ 25%                                     | 110(88)  | 0.60                            | 1.20                                  |
| CDRH4D18CLDNP-150PC | G     | 15 $\pm$ 25%                                     | 151(121)   | 0.50                            | 1.05                                  |
| CDRH4D18CLDNP-220PC | H     | 22 $\pm$ 25%                                     | 202(162)   | 0.42                            | 0.90                                  |
| CDRH4D18CLDNP-330PC | I     | 33 $\pm$ 25%                                     | 327(262)   | 0.35                            | 0.69                                  |
| CDRH4D18CLDNP-470PC | J     | 47 $\pm$ 25%                                     | 456(365)   | 0.31                            | 0.57                                  |
| CDRH4D18CLDNP-680PC | K     | 68 $\pm$ 25%                                     | 632(506)   | 0.26                            | 0.46                                  |
| CDRH4D18CLDNP-101PC | L     | 100 $\pm$ 25%                                    | 962(770)   | 0.20                            | 0.35                                  |

※1. Inductance measuring condition: at 100kHz.

※2. Saturation current: The value of D.C. current when the inductance decreases to 65% of it's nominal value.

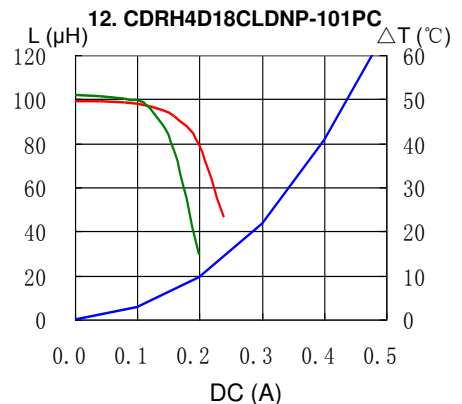
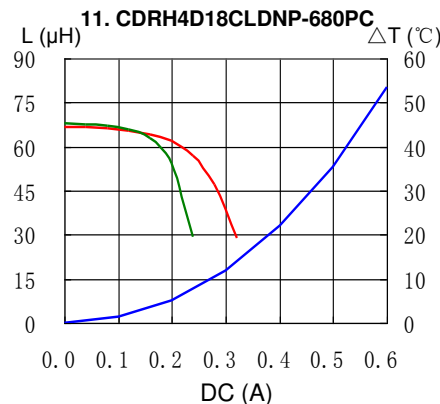
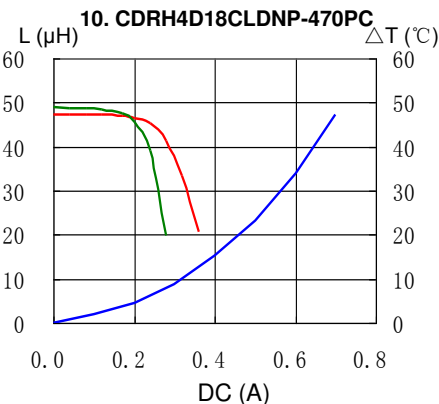
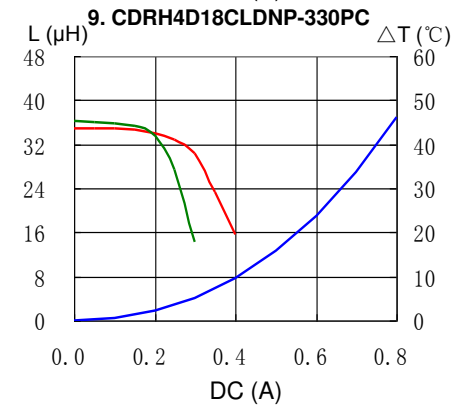
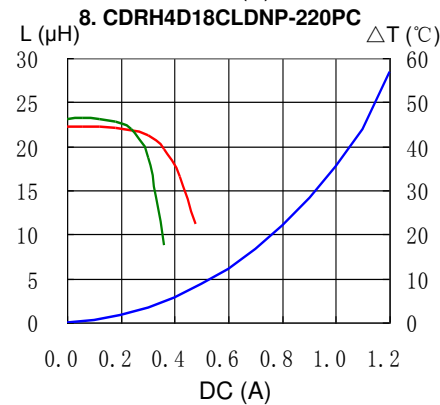
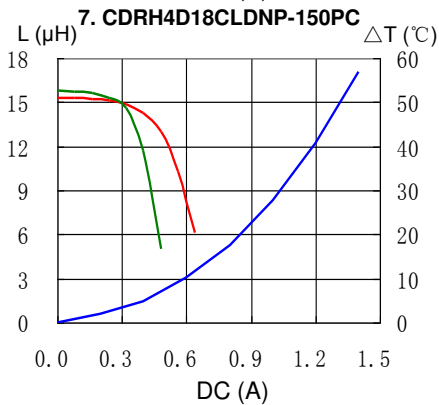
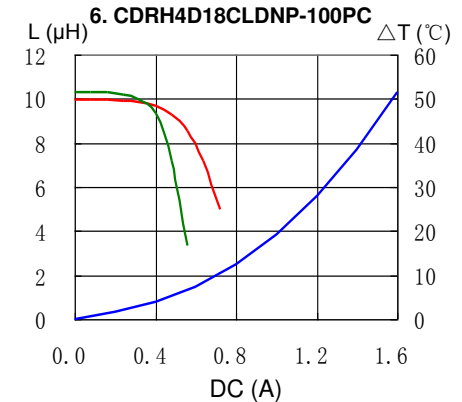
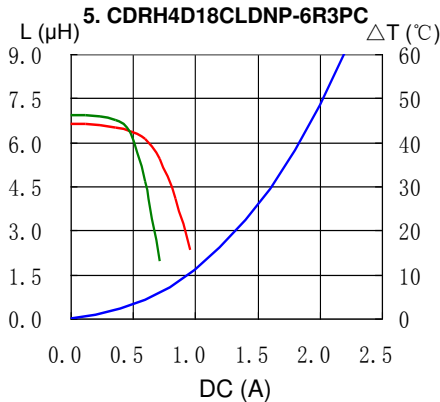
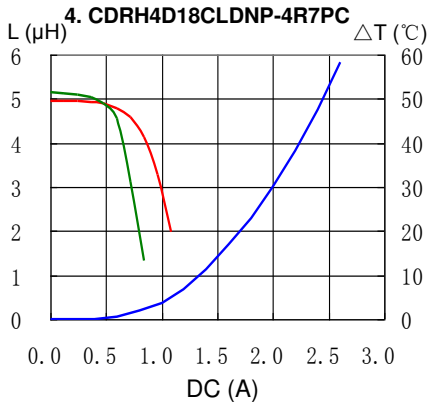
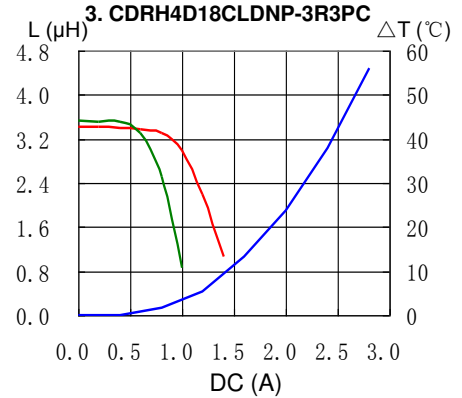
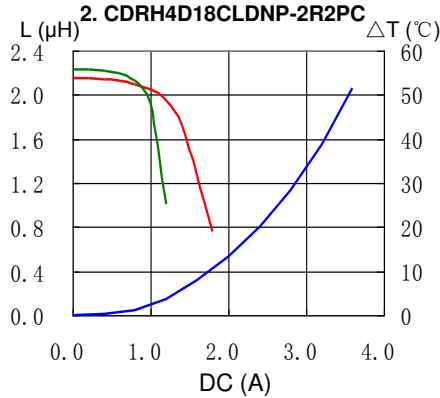
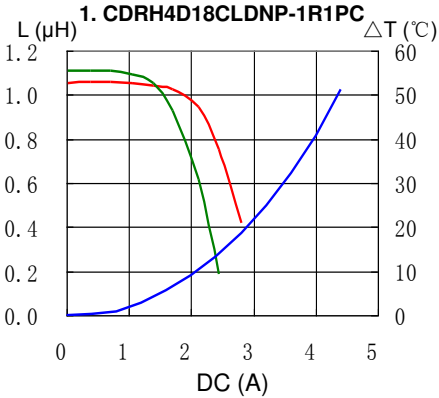
※3. Temperature rise current: The value of D.C. current when the temperature rise is  $\Delta t = 40^\circ\text{C}$  ( $T_a = 20^\circ\text{C}$ ).

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## Saturation Current & Temperature Rise Graph

— L (20°C) — L (100°C) —  $\Delta T$

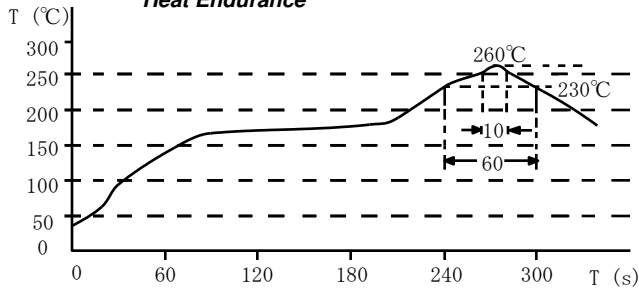


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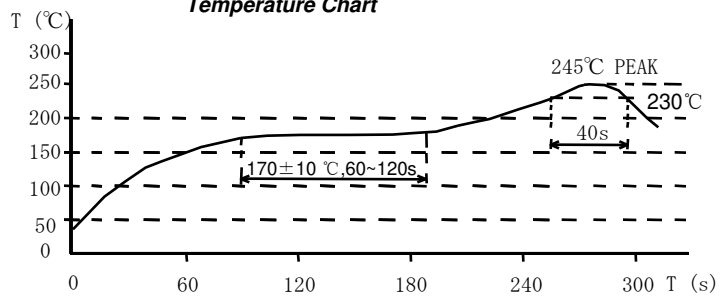


## Solder Reflow Condition

Heat Endurance



Temperature Chart



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