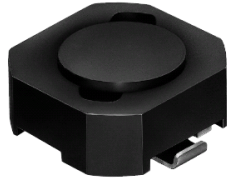




# THE DATASHEET OF CDRH62BNP-101MC



# SMD Power Inductor CDRH62B



## Description

- Ferrite drum core construction
- Magnetically shielded
- L × W × H: 6.9 × 6.5 × 3.0mm Max.
- Product weight: 0.35g(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.

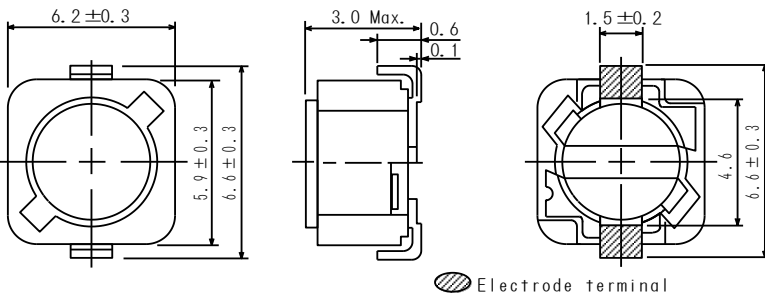
## Packaging

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

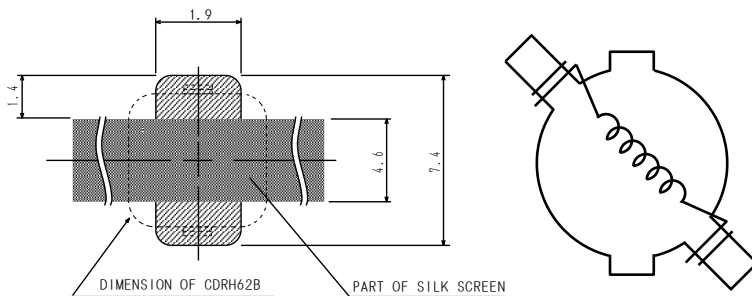
## Applications

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

## Dimension - [mm]



## Land pattern and Schematics - [mm]





### Electrical Characteristics

| Part Name         | Stamp | Inductance<br>( $\mu\text{H}$ )<br>[ within ] ※1 | D.C.R.( $\Omega$ )<br>Max. (Typ.)<br>(at 20°C) | Rated Current<br>(A) ※2 |
|-------------------|-------|--|--|-------------------------|
| CDRH62BNP-2R9NC-B | 2R9   | 2.9+40%<br>-20%                                  | 68m (50m)                                      | 1.94                    |
| CDRH62BNP-4R0NC-B | 4R0   | 4.0+40%<br>-20%                                  | 80m (59m)                                      | 1.63                    |
| CDRH62BNP-5R5NC-B | 5R5   | 5.5+40%<br>-20%                                  | 96m (71m)                                      | 1.40                    |
| CDRH62BNP-6R3NC-B | 6R3   | 6.3+40%<br>-20%                                  | 0.10 (77m)                                     | 1.30                    |
| CDRH62BNP-7R1NC-B | 7R1   | 7.1+40%<br>-20%                                  | 0.11 (81m)                                     | 1.22                    |
| CDRH62BNP-8R0NC-B | 8R0   | 8.0+40%<br>-20%                                  | 0.12 (87m)                                     | 1.15                    |
| CDRH62BNP-100MC-B | 100   | 10 $\pm$ 20%                                     | 0.15 (0.11)                                    | 1.10                    |
| CDRH62BNP-120MC-B | 120   | 12 $\pm$ 20%                                     | 0.20 (0.15)                                    | 1.00                    |
| CDRH62BNP-150MC-B | 150   | 15 $\pm$ 20%                                     | 0.23 (0.17)                                    | 0.90                    |
| CDRH62BNP-180MC-B | 180   | 18 $\pm$ 20%                                     | 0.27 (0.20)                                    | 0.80                    |
| CDRH62BNP-220MC-B | 220   | 22 $\pm$ 20%                                     | 0.34 (0.25)                                    | 0.74                    |
| CDRH62BNP-270MC-B | 270   | 27 $\pm$ 20%                                     | 0.38 (0.29)                                    | 0.66                    |
| CDRH62BNP-330MC-B | 330   | 33 $\pm$ 20%                                     | 0.45 (0.33)                                    | 0.59                    |
| CDRH62BNP-390MC-B | 390   | 39 $\pm$ 20%                                     | 0.49 (0.37)                                    | 0.54                    |
| CDRH62BNP-470MC-B | 470   | 47 $\pm$ 20%                                     | 0.69 (0.51)                                    | 0.50                    |
| CDRH62BNP-560MC-B | 560   | 56 $\pm$ 20%                                     | 0.78 (0.58)                                    | 0.46                    |
| CDRH62BNP-680MC-B | 680   | 68 $\pm$ 20%                                     | 1.07 (0.83)                                    | 0.42                    |
| CDRH62BNP-820MC-B | 820   | 82 $\pm$ 20%                                     | 1.21 (0.93)                                    | 0.38                    |
| CDRH62BNP-101MC-B | 101   | 100 $\pm$ 20%                                    | 1.39 (1.07)                                    | 0.34                    |
| CDRH62BNP-121MC-B | 121   | 120 $\pm$ 20%                                    | 1.90 (1.46)                                    | 0.31                    |
| CDRH62BNP-151MC-B | 151   | 150 $\pm$ 20%                                    | 2.18 (1.68)                                    | 0.28                    |
| CDRH62BNP-181MC-B | 181   | 180 $\pm$ 20%                                    | 2.77 (2.13)                                    | 0.26                    |
| CDRH62BNP-221MC-B | 221   | 220 $\pm$ 20%                                    | 3.12 (2.40)                                    | 0.23                    |
| CDRH62BNP-271MC-B | 271   | 270 $\pm$ 20%                                    | 4.38 (3.37)                                    | 0.22                    |
| CDRH62BNP-331MC-B | 331   | 330 $\pm$ 20%                                    | 4.94 (3.80)                                    | 0.19                    |

※1. Inductance measuring condition: 2.9 $\mu\text{H}$  ~ 8.0 $\mu\text{H}$  at 7.96 MHz  
10 $\mu\text{H}$  ~ 330 $\mu\text{H}$  at 1 kHz

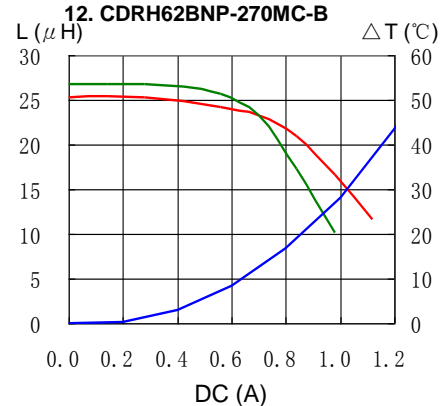
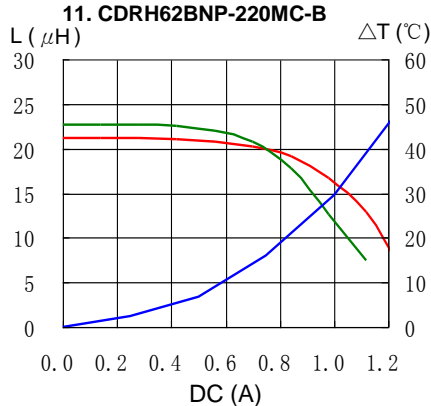
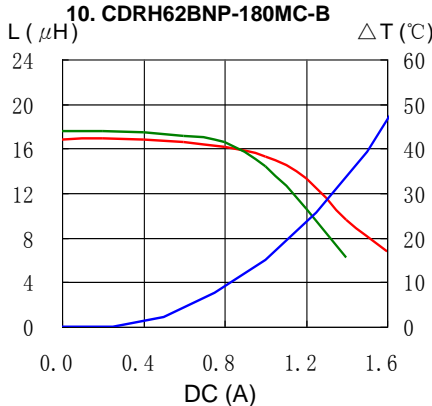
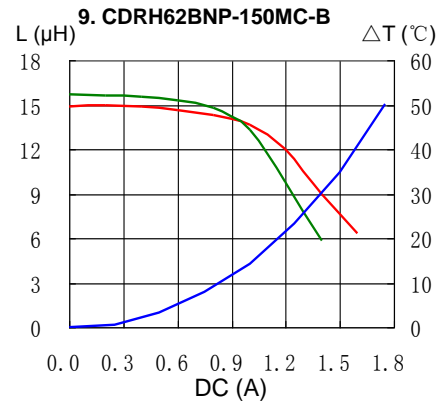
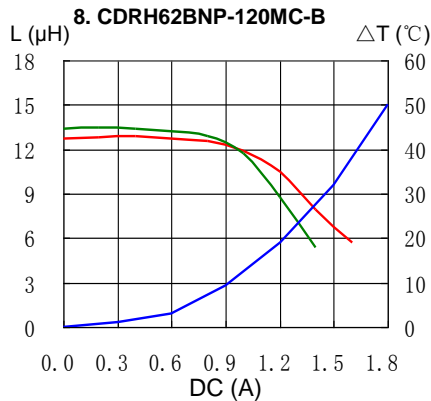
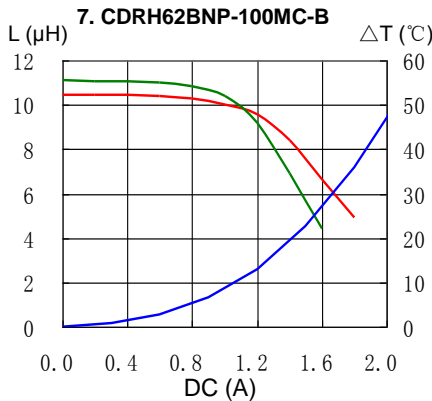
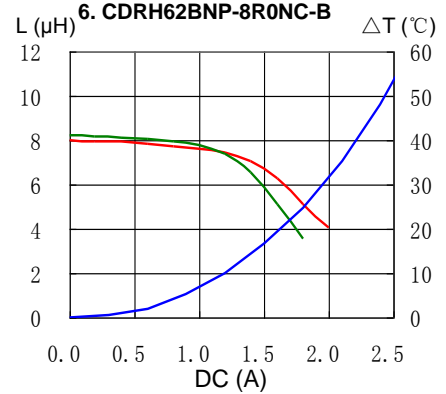
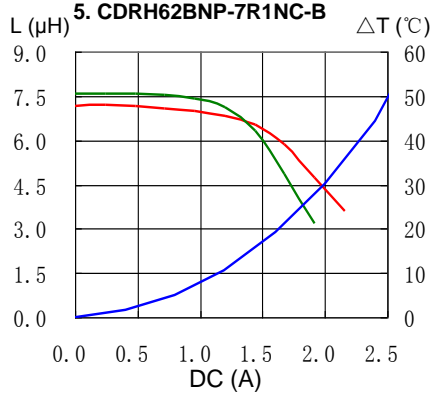
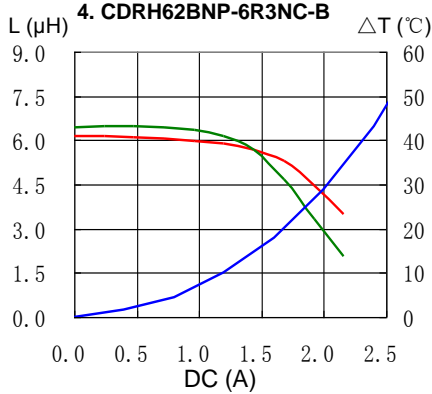
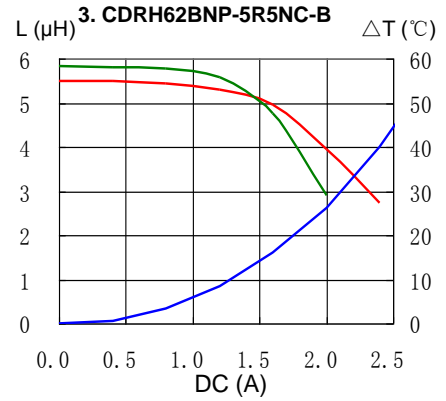
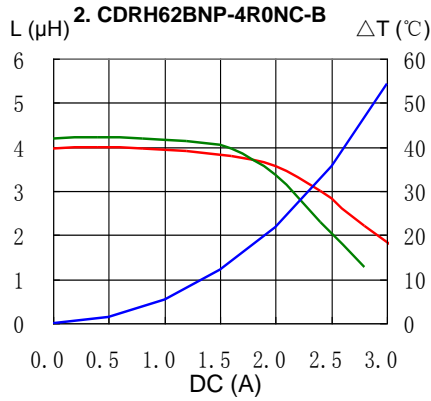
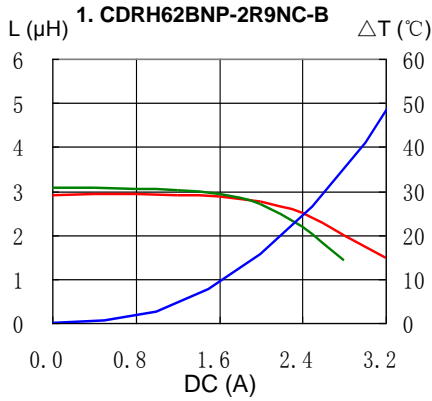
※2. Rated current: The DC current at which the inductance decreases to 75% of it's nominal value or when  $\Delta t=40^\circ\text{C}$ , whichever is lower ( $T_a=20^\circ\text{C}$ ).

# SMD Power Inductor CDRH62B



## Saturation Current & Temperature Rise Graph

— L (20°C) — L (100°C) —  $\Delta T$

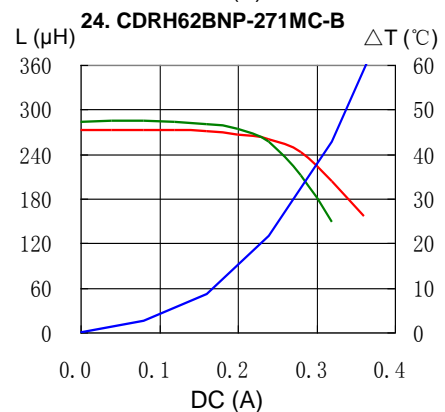
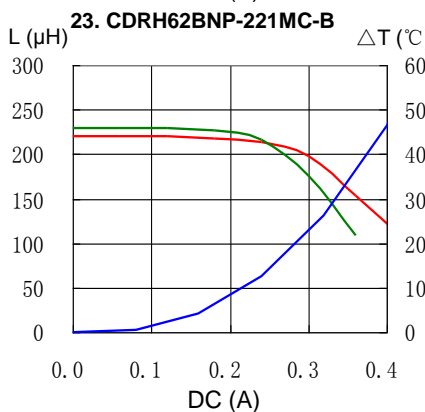
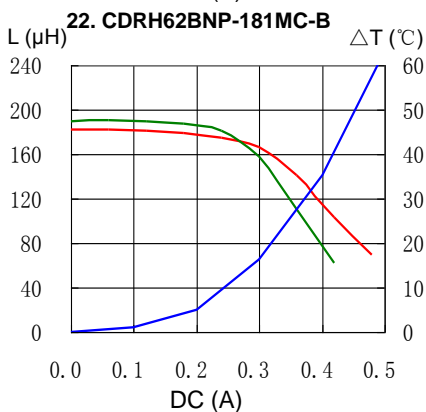
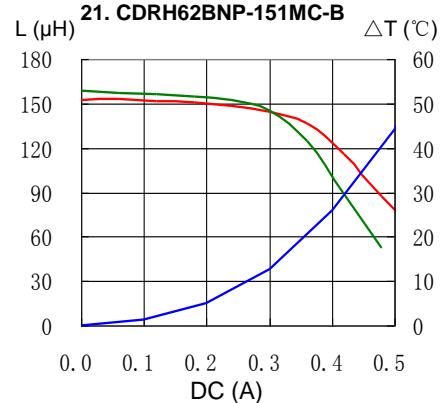
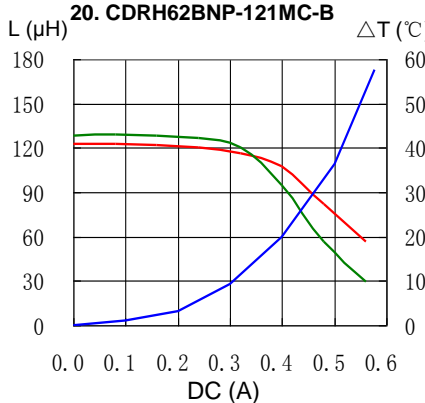
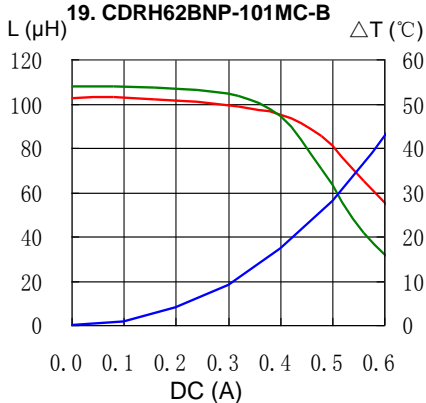
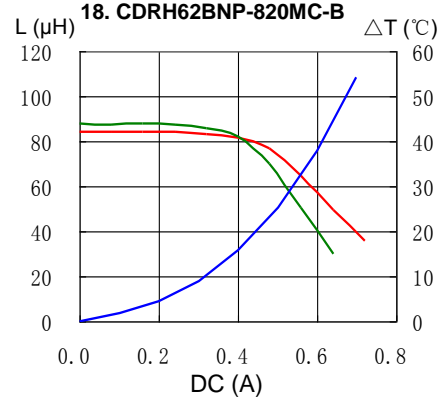
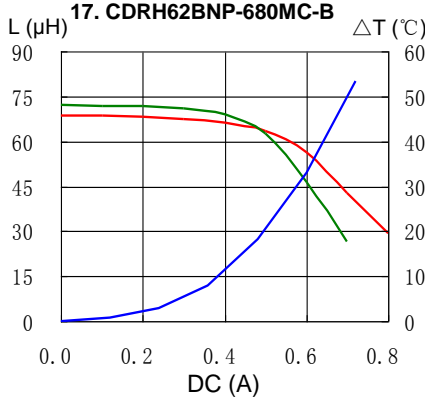
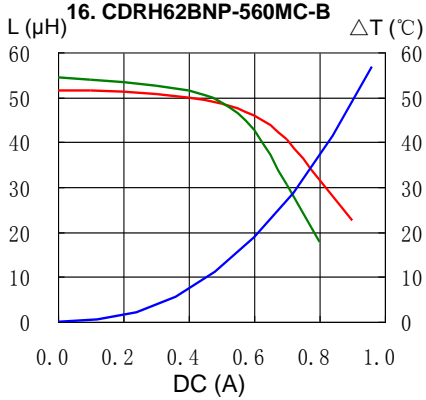
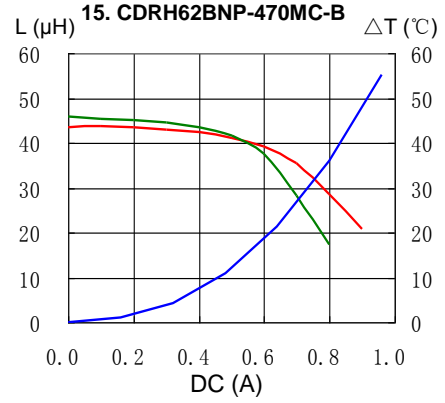
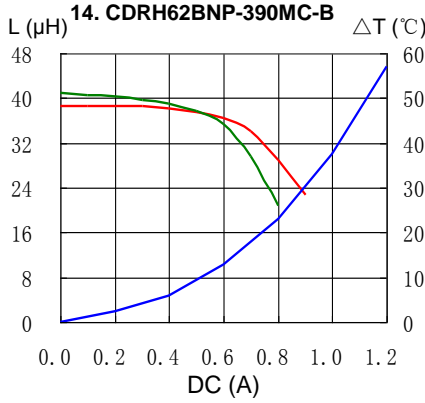
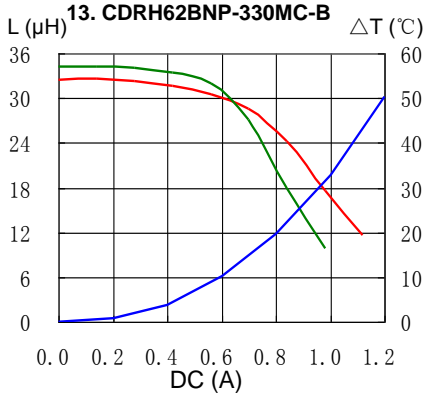


# SMD Power Inductor CDRH62B

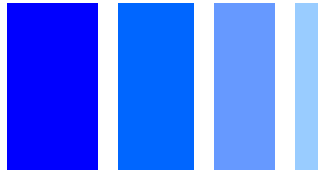


## Saturation Current & Temperature Rise Graph

— L (20°C) — L (100°C) —  $\Delta T$

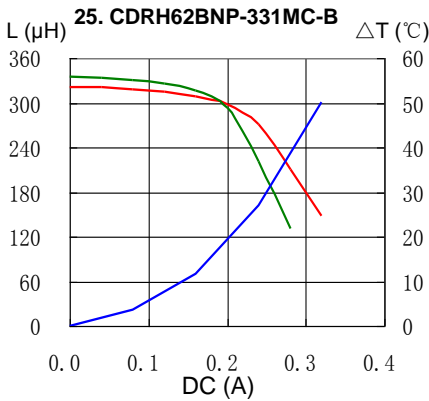


# SMD Power Inductor CDRH62B



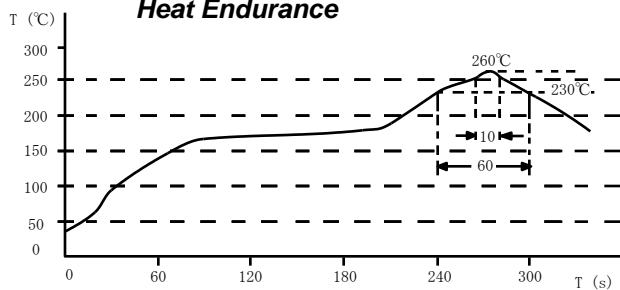
## Saturation Current & Temperature Rise Graph

— L (20°C) — L (100°C) —  $\Delta T$

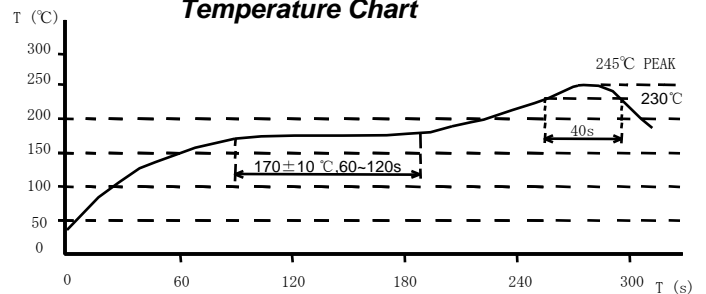


## Solder Reflow Condition

### Heat Endurance



### Temperature Chart



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