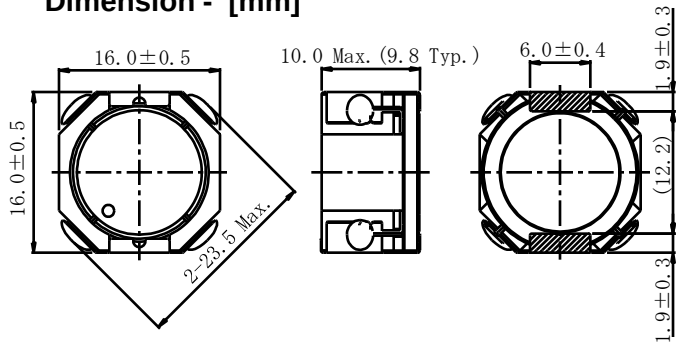


# SMD Power Inductor

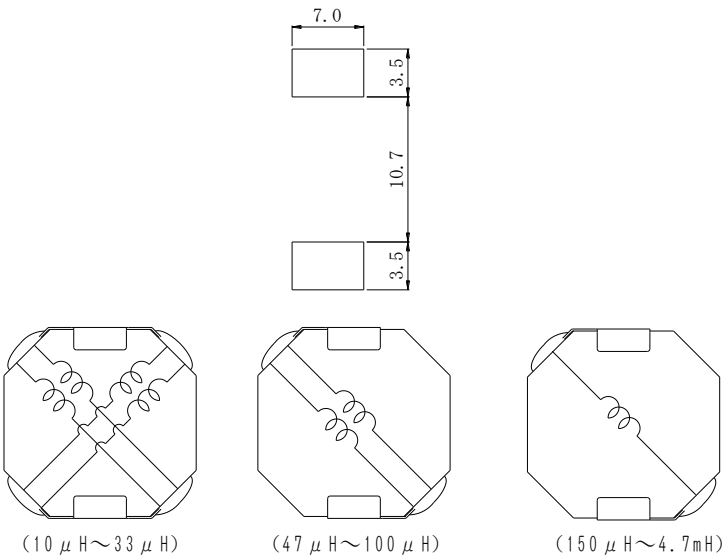
## CDRH169RB



### Dimension - [mm]



### Land pattern and Schematics - [mm]



### Description

- Ferrite drum core construction.
- Magnetically shielded.
- L × W × H: 16.5 × 16.5 × 10.0mm Max.
- Product weight: 8.2g(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.
- 13.0" diameter reel
- 200pcs per reel

### Applications

- Ideally used in Game machine, Notebook PC, LCD TV,DVD, STB ,Projector etc as DC-DC converter inductors.

# SMD Power Inductor

## CDRH169RB



### Electrical Characteristics

| Part No.          | Stamp | Inductance<br>[Within] ※1 | D.C.R.(Ω)<br>[Max.] (Typ.)<br>(at 20°C) | Saturation current<br>(A) ※2 |            | Temperature<br>rise current<br>(A) ※3 |
|-------------------|-------|---------------------------|-----------------------------------------|------------------------------|------------|---------------------------------------|
|                   |       |                           |                                         | (at 20°C)                    | (at 105°C) |                                       |
| CDRH169RBNP-100MC | 100   | 10μH±20%                  | 9.3m(7.4m)                              | 11.0                         | 8.5        | 9.2                                   |
| CDRH169RBNP-150MC | 150   | 15μH±20%                  | 12.5m(10.0m)                            | 9.0                          | 7.0        | 7.5                                   |
| CDRH169RBNP-220MC | 220   | 22μH±20%                  | 19.0m(15.0m)                            | 7.5                          | 6.0        | 6.3                                   |
| CDRH169RBNP-330MC | 330   | 33μH±20%                  | 28.0m(22.0m)                            | 6.0                          | 4.6        | 5.0                                   |
| CDRH169RBNP-470MC | 470   | 47μH±20%                  | 36.0m(29.0m)                            | 5.0                          | 3.8        | 4.3                                   |
| CDRH169RBNP-680MC | 680   | 68μH±20%                  | 51.0m(41.0m)                            | 4.2                          | 3.3        | 3.4                                   |
| CDRH169RBNP-101MC | 101   | 100μH±20%                 | 79.0m(63.0m)                            | 3.4                          | 2.7        | 2.9                                   |
| CDRH169RBNP-151MC | 151   | 150μH±20%                 | 121m(97m)                               | 2.8                          | 2.2        | 2.2                                   |
| CDRH169RBNP-221MC | 221   | 220μH±20%                 | 0.15(0.12)                              | 2.3                          | 1.8        | 1.9                                   |
| CDRH169RBNP-331MC | 331   | 330μH±20%                 | 0.27(0.22)                              | 1.8                          | 1.4        | 1.4                                   |
| CDRH169RBNP-471MC | 471   | 470μH±20%                 | 0.37(0.30)                              | 1.6                          | 1.2        | 1.2                                   |
| CDRH169RBNP-561MC | 561   | 560μH±20%                 | 0.46(0.37)                              | 1.5                          | 1.1        | 1.05                                  |
| CDRH169RBNP-681MC | 681   | 680μH±20%                 | 0.52(0.41)                              | 1.3                          | 1.0        | 1.0                                   |
| CDRH169RBNP-102MC | 102   | 1.0mH±20%                 | 0.76(0.61)                              | 1.05                         | 0.8        | 0.85                                  |
| CDRH169RBNP-122MC | 122   | 1.2mH±20%                 | 0.83(0.66)                              | 0.95                         | 0.75       | 0.83                                  |
| CDRH169RBNP-152MC | 152   | 1.5mH±20%                 | 1.05(0.84)                              | 0.85                         | 0.65       | 0.72                                  |
| CDRH169RBNP-222MC | 222   | 2.2mH±20%                 | 1.50(1.20)                              | 0.70                         | 0.55       | 0.60                                  |
| CDRH169RBNP-332MC | 332   | 3.3mH±20%                 | 2.13(1.71)                              | 0.60                         | 0.45       | 0.49                                  |
| CDRH169RBNP-472MC | 472   | 4.7mH±20%                 | 3.19(2.55)                              | 0.50                         | 0.40       | 0.40                                  |

※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  $\Delta t = 40^{\circ}\text{C}$  ( $T_a = 20^{\circ}\text{C}$ ).

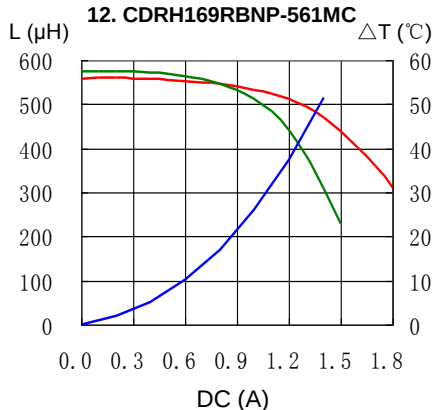
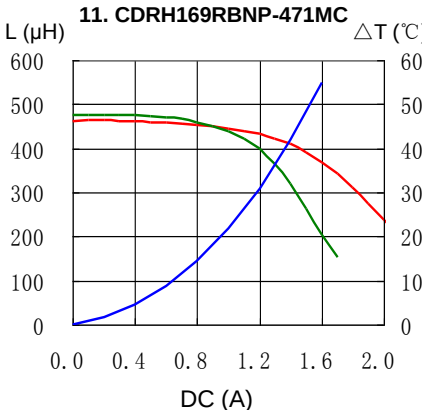
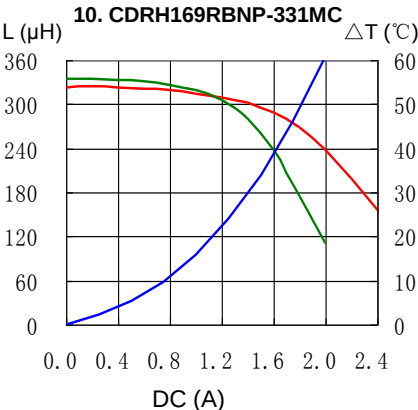
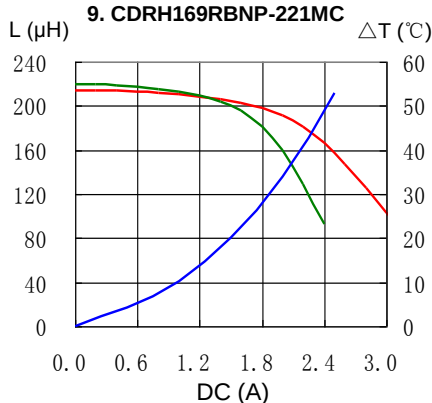
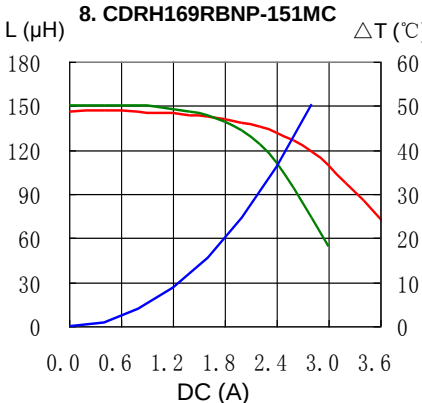
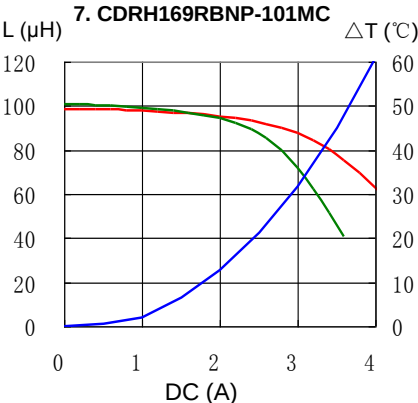
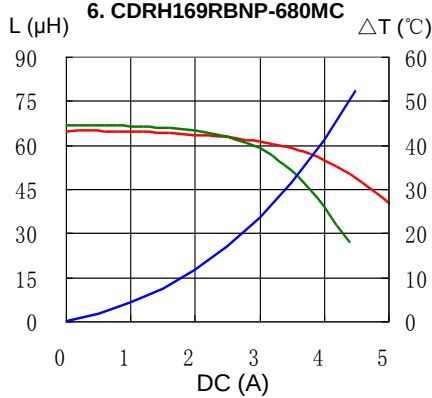
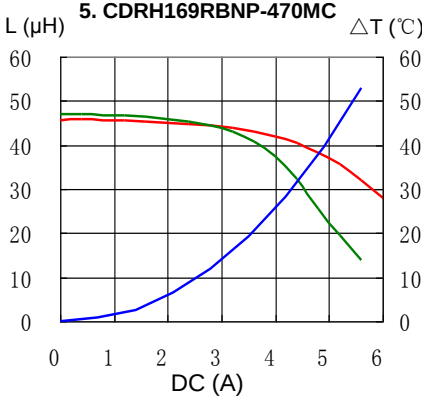
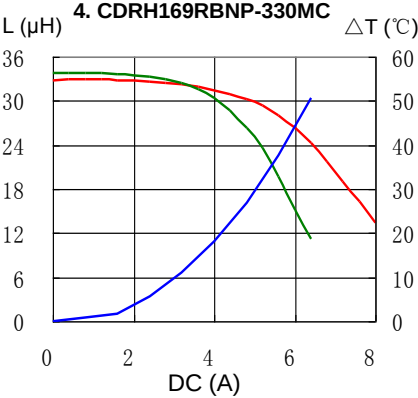
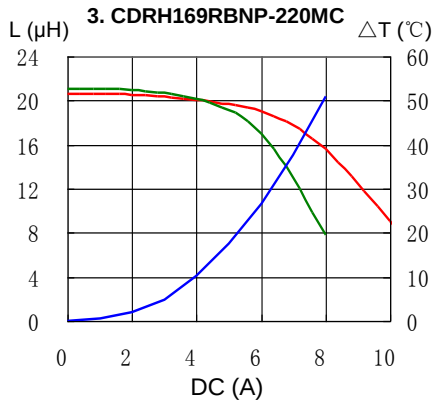
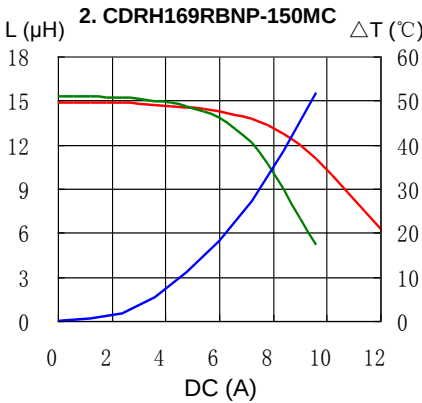
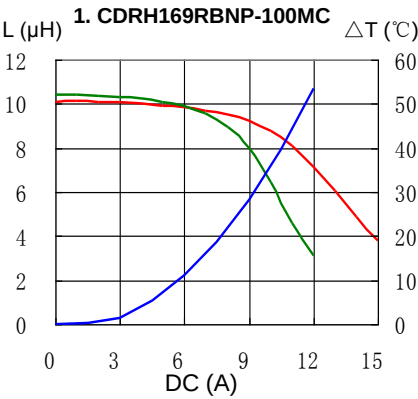
# SMD Power Inductor

## CDRH169RB



### Saturation Current & Temperature Rise Graph

— L (20°C) — L (105°C) —  $\Delta T$



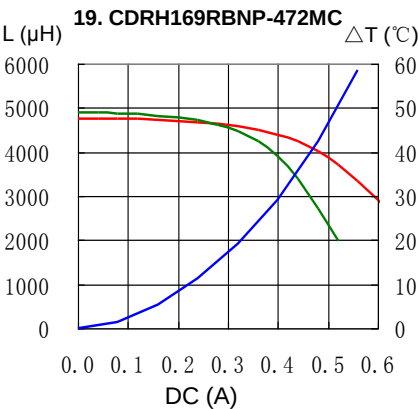
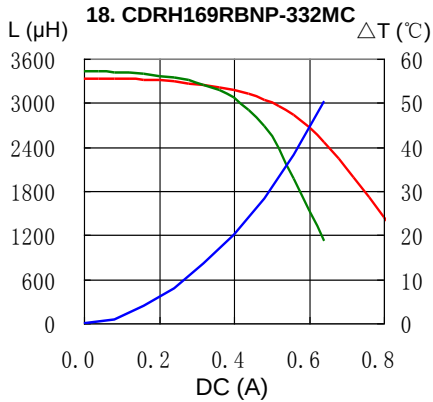
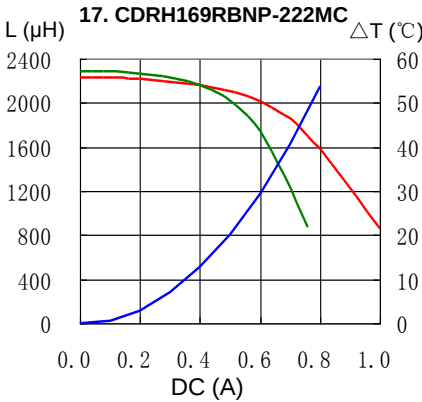
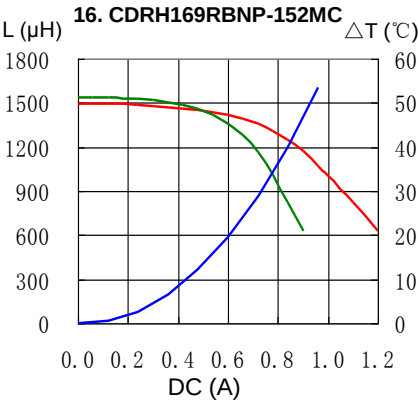
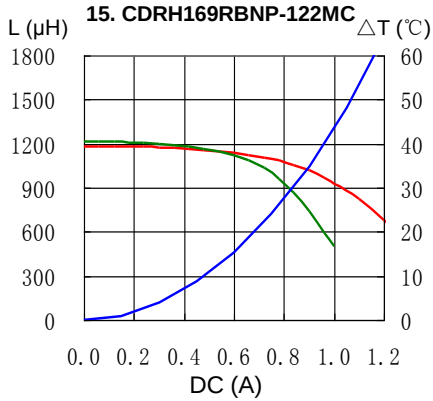
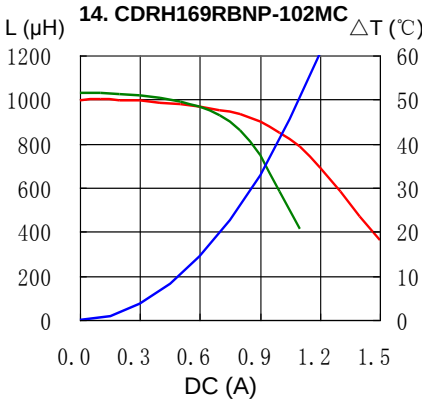
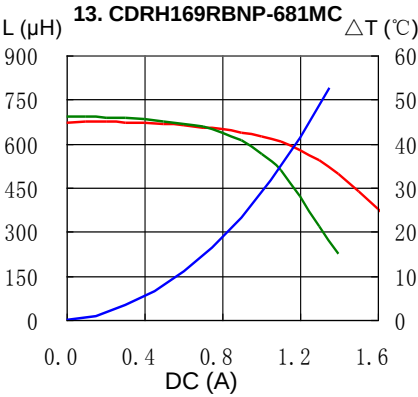
# SMD Power Inductor

## CDRH169RB



Saturation Current & Temperature Rise Graph

— L (20°C) — L (105°C) —  $\Delta T$

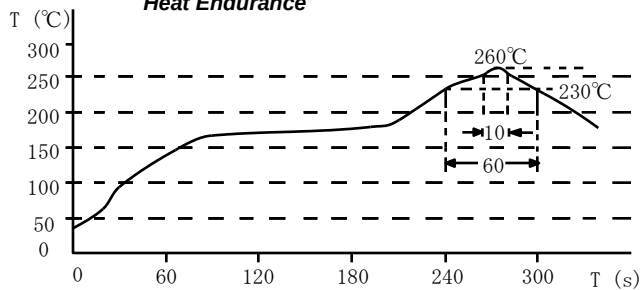


# SMD Power Inductor CDRH169RB

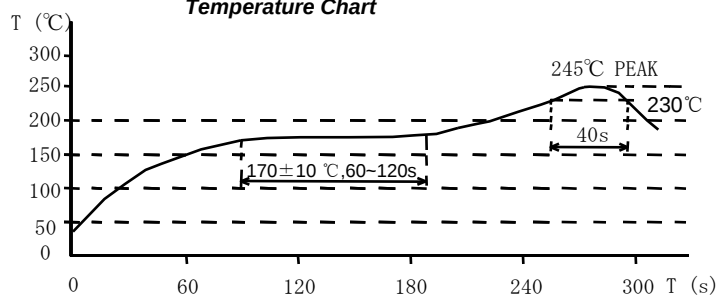


## Solder Reflow Condition

Heat Endurance



Temperature Chart



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