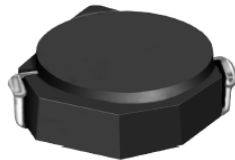


# SMD Power Inductor CDRH2D11B



Halogen Free



## Description

- Ferrite drum core construction.
- Magnetically shielded.
- L × W × H: 3.2 × 3.2 × 1.2 mm Max.
- Product weight: 36mg(Ref.)
- Moisture Sensitivity Level: 1
- RoHS compliance.
- Halogen Free available.

## 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.

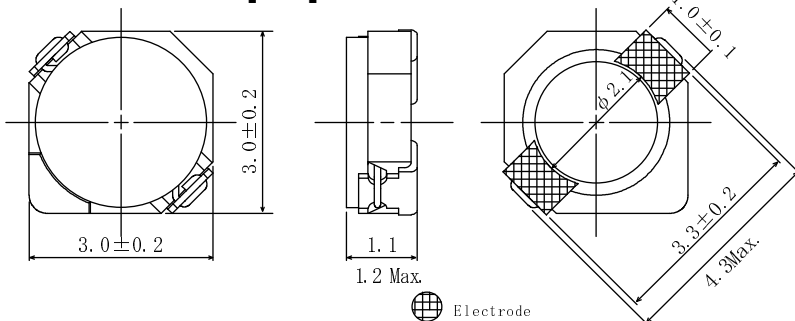
## Packaging

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

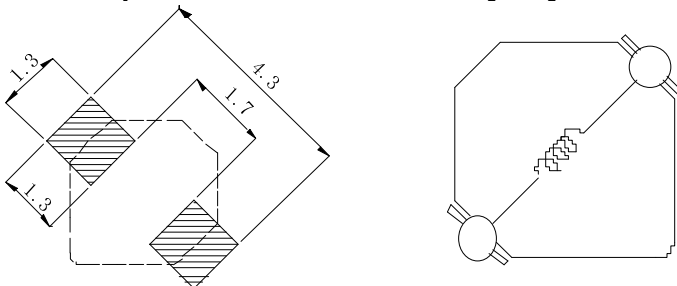
## Applications

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

## Dimension - [mm]



## Land pattern and Schematics - [mm]



# SMD Power Inductor CDRH2D11B



## Electrical Characteristics

| Part Name         | Stamp | Inductance<br>( $\mu$ H)<br>[within] ※1 | D.C.R. (m $\Omega$ )<br>Max. (Typ.)<br>(at 20°C) | Saturation Current<br>(A) ※2 |          | Temperature<br>Rise Current<br>(A) ※3 |
|-------------------|-------|---|--|------------------------------|----------|---------------------------------------|
|                   |       |   |  | at 20°C                      | at 100°C |                                       |
| CDRH2D11BNP-1R0NC | A     | 1.0 $\pm$ 25%                           | 62.6(50.1)                                       | 1.50                         | 1.25     | 1.70                                  |
| CDRH2D11BNP-1R5NC | B     | 1.5 $\pm$ 25%                           | 84.3(67.4)                                       | 1.25                         | 1.05     | 1.45                                  |
| CDRH2D11BNP-2R2NC | C     | 2.2 $\pm$ 25%                           | 95.5(76.4)                                       | 1.10                         | 0.9      | 1.40                                  |
| CDRH2D11BNP-2R7NC | D     | 2.7 $\pm$ 25%                           | 120(95.6)  | 0.92                         | 0.75     | 1.20                                  |
| CDRH2D11BNP-3R3NC | E     | 3.3 $\pm$ 25%                           | 154(123)   | 0.88                         | 0.70     | 1.00                                  |
| CDRH2D11BNP-4R7NC | F     | 4.7 $\pm$ 25%                           | 248(198)   | 0.70                         | 0.56     | 0.80                                  |
| CDRH2D11BNP-5R6NC | G     | 5.6 $\pm$ 25%                           | 264(211)   | 0.65                         | 0.54     | 0.75                                  |
| CDRH2D11BNP-6R8NC | H     | 6.8 $\pm$ 25%                           | 284(227)   | 0.60                         | 0.50     | 0.72                                  |
| CDRH2D11BNP-8R2NC | I     | 8.2 $\pm$ 25%                           | 376(301)   | 0.52                         | 0.44     | 0.60                                  |
| CDRH2D11BNP-100NC | J     | 10.0 $\pm$ 25%                          | 428(342)   | 0.48                         | 0.40     | 0.58                                  |
| CDRH2D11BNP-150NC | K     | 15.0 $\pm$ 25%                          | 663(530)   | 0.40                         | 0.33     | 0.46                                  |
| CDRH2D11BNP-180NC | L     | 18.0 $\pm$ 25%                          | 730(584)   | 0.36                         | 0.30     | 0.43                                  |
| CDRH2D11BNP-220NC | M     | 22.0 $\pm$ 25%                          | 801(641)   | 0.35                         | 0.26     | 0.42                                  |

※1. Inductance measuring condition: at 100kHz.

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

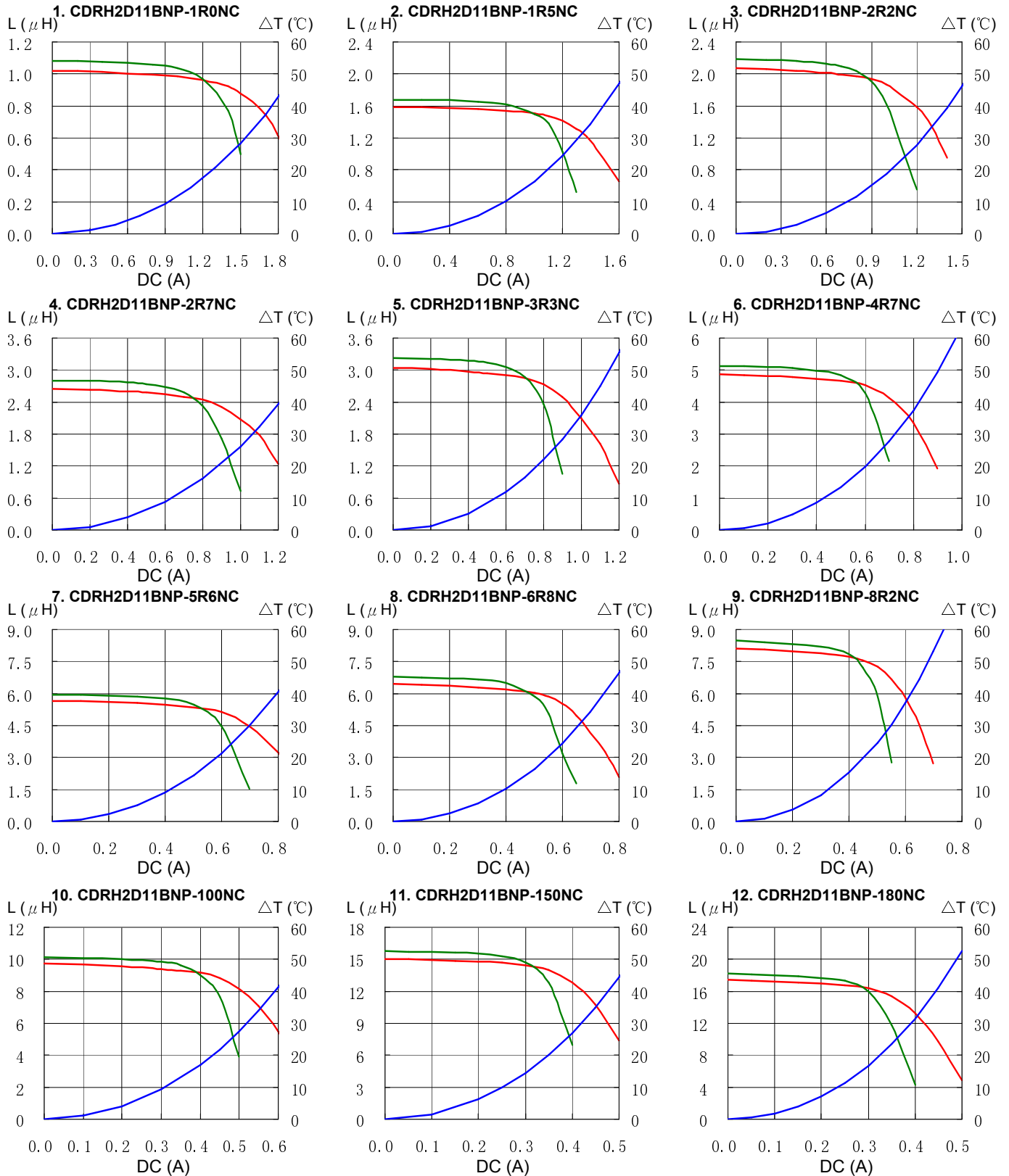
※3. Temperature rise current: The value of D.C. current when the temperature rise is  $\Delta t=40^{\circ}\text{C}$  ( $T_a=20^{\circ}\text{C}$ ).

# SMD Power Inductor CDRH2D11B



## Saturation Current & Temperature Rise Graph

— L (20°C) — L (105°C) —  $\Delta T$

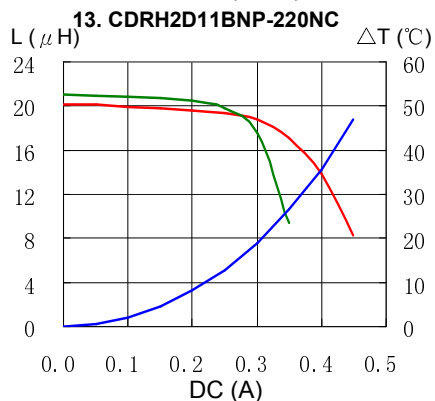


# SMD Power Inductor CDRH2D11B



## Saturation Current & Temperature Rise Graph

— L (20°C)    — L (105°C)    —  $\Delta T$



## Solder Reflow Condition

