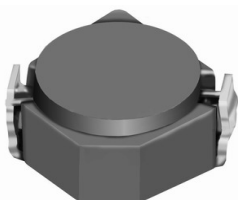


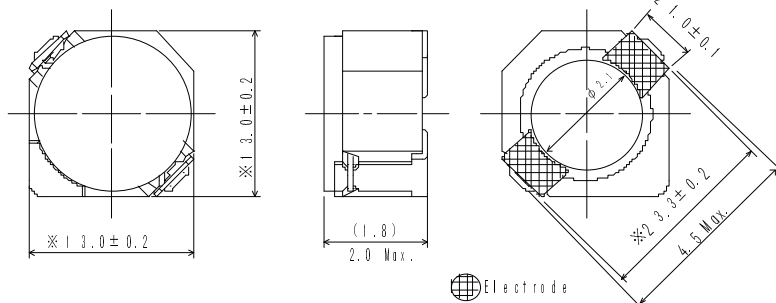
# SMD Power Inductor CDRH2D18/LD



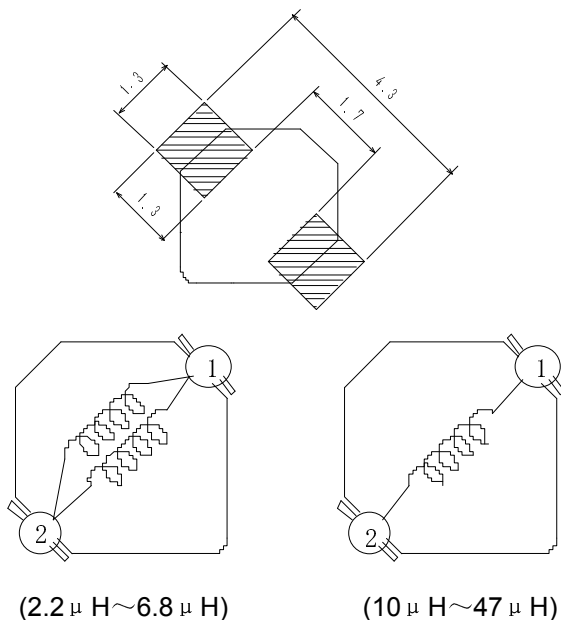
**Halogen  
Free**



## Dimension - [mm]



## Land pattern and Schematics - [mm]



## Description

- Ferrite drum core construction.
- Magnetically shielded.
- $L \times W \times H$ :  $3.2 \times 3.2 \times 2.0 \text{ mm Max.}$
- Product weight:  $65\text{mg(Ref.)}$
- Moisture Sensitivity Level: 1
- RoHS compliance.
- Halogen Free available.

## Environmental Data

- Operating temperature range:  $-40^{\circ}\text{C} \sim +105^{\circ}\text{C}$  (including coil's self temperature rise)
- Storage temperature range:  $-40^{\circ}\text{C} \sim +105^{\circ}\text{C}$
- Solder reflow temperature:  $260^{\circ}\text{C}$  peak.

## Packaging

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

## Applications

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

# SMD Power Inductor

## CDRH2D18/LD



### 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 |                                       |
| CDRH2D18/LDNP-2R2NC | C     | 2.2 $\pm$ 30%                           | 41(33)                                           | 0.85                         | 0.67     | 2.30                                  |
| CDRH2D18/LDNP-3R3NC | E     | 3.3 $\pm$ 30%                           | 54(43)                                           | 0.75                         | 0.55     | 2.10                                  |
| CDRH2D18/LDNP-4R7NC | G     | 4.7 $\pm$ 30%                           | 78(62)                                           | 0.63                         | 0.47     | 1.65                                  |
| CDRH2D18/LDNP-6R8NC | I     | 6.8 $\pm$ 30%                           | 106(85)                                          | 0.52                         | 0.40     | 1.32                                  |
| CDRH2D18/LDNP-100NC | K     | 10 $\pm$ 30%                            | 180(145)                                         | 0.43                         | 0.33     | 1.00                                  |
| CDRH2D18/LDNP-150NC | M     | 15 $\pm$ 30%                            | 220(175)                                         | 0.35                         | 0.28     | 0.80                                  |
| CDRH2D18/LDNP-220NC | O     | 22 $\pm$ 30%                            | 320(255)                                         | 0.30                         | 0.22     | 0.68                                  |
| CDRH2D18/LDNP-330NC | Q     | 33 $\pm$ 30%                            | 460(370)                                         | 0.24                         | 0.18     | 0.56                                  |
| CDRH2D18/LDNP-470NC | S     | 47 $\pm$ 30%                            | 660(530)                                         | 0.20                         | 0.15     | 0.48                                  |

※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.

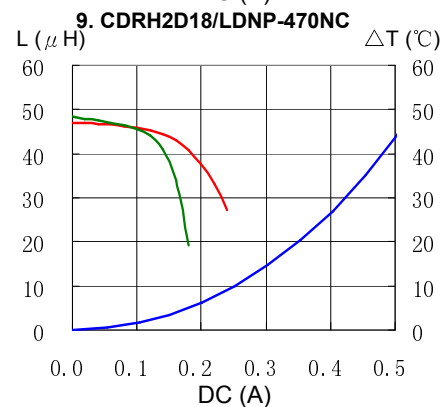
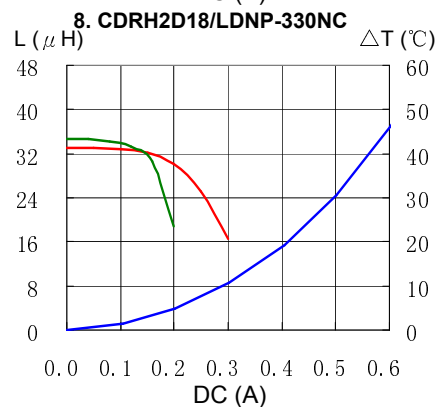
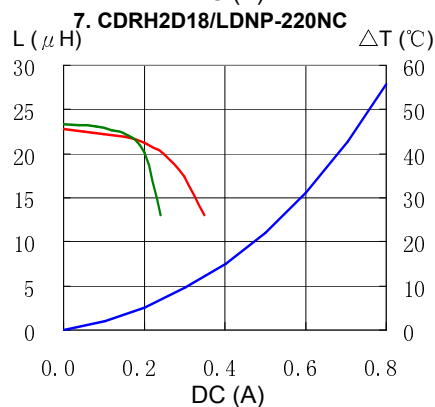
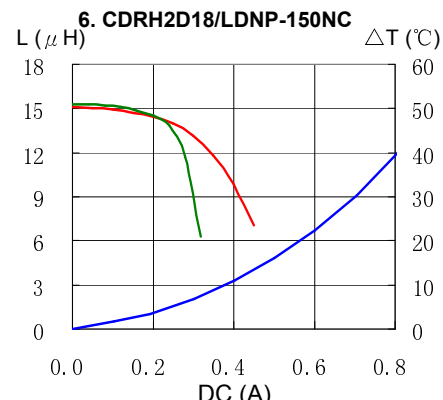
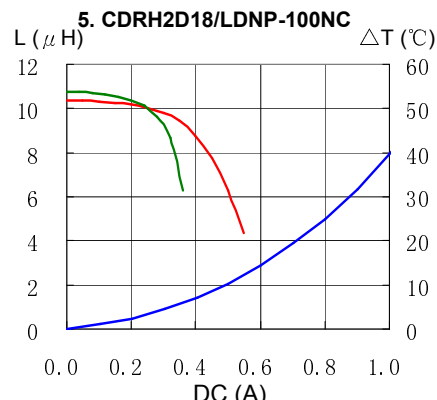
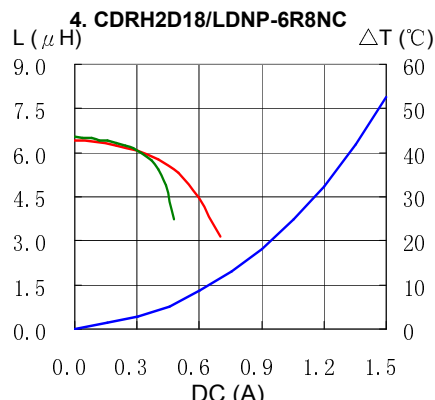
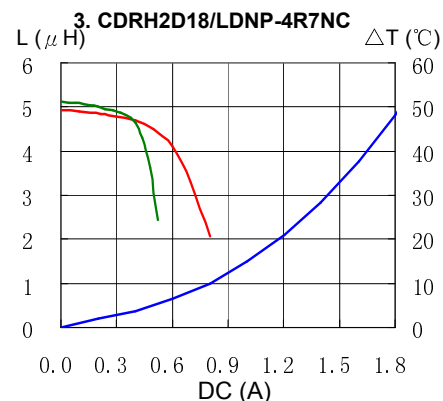
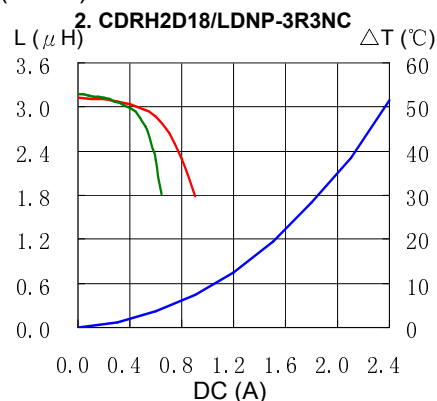
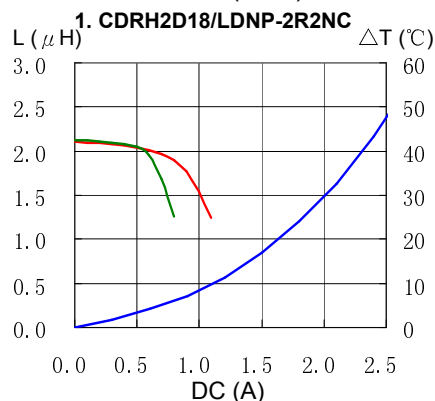
※3. Temperature rise current: The value of D.C. current when the temperature rise is  $\Delta t = 40^\circ\text{C}$  ( $T_a = 20^\circ\text{C}$ ).

# SMD Power Inductor CDRH2D18/LD



## Saturation Current & Temperature Rise Graph

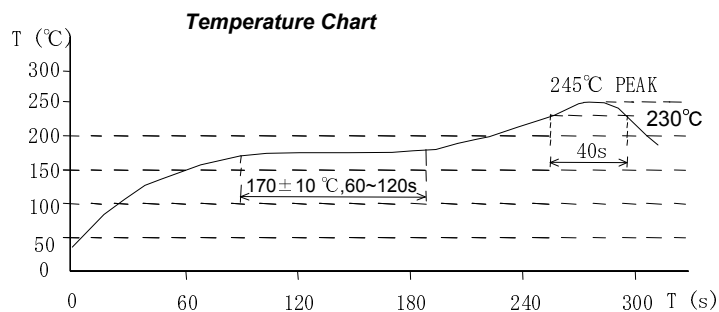
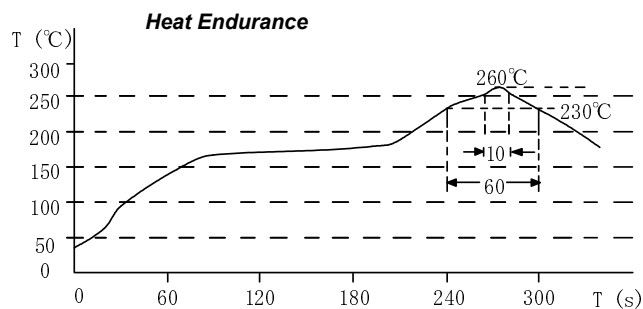
— L (20°C) — L (100°C) —  $\Delta T$



# SMD Power Inductor CDRH2D18/LD



## Solder Reflow Condition



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