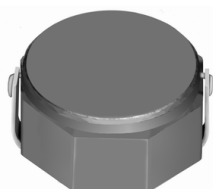


# SMD Power Inductor CDRH8D43HP



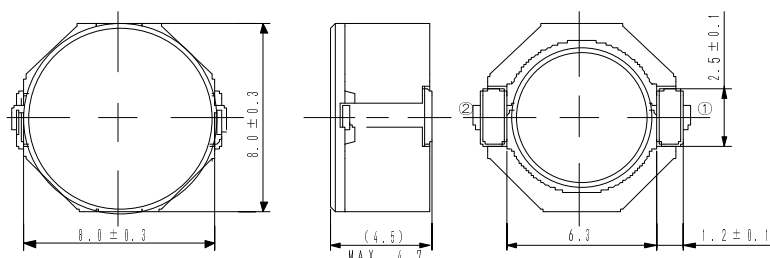
Halogen  
Free



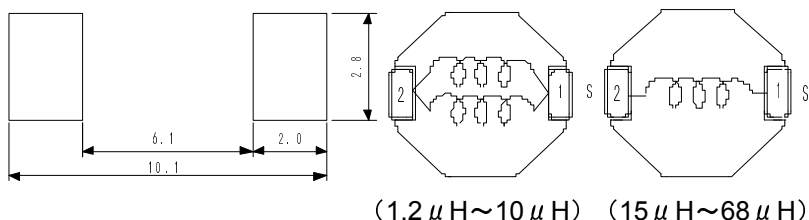
## Description

- Ferrite drum core construction.
- Magnetically shielded.
- L × W × H: 8.3 × 8.3 × 4.7 mm Max.
- Product weight: 0.93g(Ref.)
- Moisture Sensitivity Level: 1
- RoHS compliance.
- Halogen Free available.

## Dimension - [mm]



## Land pattern and Schematics - [mm]



## 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
- 12.9" diameter reel
- 500pcs per reel

## Applications

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

## 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 |                                       |
| CDRH8D43HPNP-1R2NC | 1R2   | 1.2 ± 30%                                 | 16.5(12.3)                                  | 12.6                         | 10.8     | 5.6                                   |
| CDRH8D43HPNP-2R7NC | 2R7   | 2.7 ± 30%                                 | 19.5(15.9)                                  | 8.6                          | 7.0      | 5.1                                   |
| CDRH8D43HPNP-4R7NC | 4R7   | 4.7 ± 30%                                 | 27.0(20.7)                                  | 6.2                          | 5.2      | 3.9                                   |
| CDRH8D43HPNP-6R8NC | 6R8   | 6.8 ± 30%                                 | 36.0(31.2)                                  | 5.6                          | 4.5      | 3.3                                   |
| CDRH8D43HPNP-100NC | 100   | 10 ± 30%                                  | 53.0(44.4)                                  | 4.3                          | 3.5      | 2.5                                   |
| CDRH8D43HPNP-150NC | 150   | 15 ± 30%                                  | 75.0(64.4)                                  | 3.7                          | 2.9      | 2.0                                   |
| CDRH8D43HPNP-220NC | 220   | 22 ± 30%                                  | 125(103)                                    | 3.0                          | 2.4      | 1.5                                   |
| CDRH8D43HPNP-330NC | 330   | 33 ± 30%                                  | 150(123)                                    | 2.5                          | 2.0      | 1.4                                   |
| CDRH8D43HPNP-470NC | 470   | 47 ± 30%                                  | 238(183)                                    | 2.0                          | 1.6      | 1.2                                   |
| CDRH8D43HPNP-680NC | 680   | 68 ± 30%                                  | 363(294)                                    | 1.6                          | 1.4      | 0.8                                   |

※1. Inductance measuring conditions at 100kHz.

※2. Saturation current: The DC current at which the inductance decreases to 65% of its nominal value.

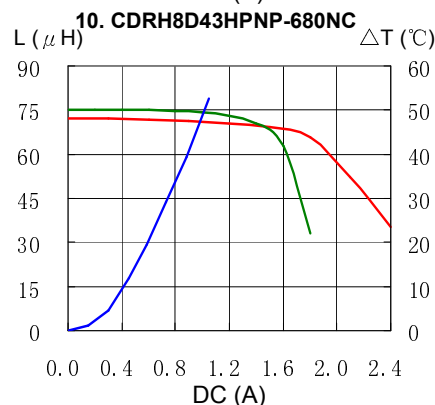
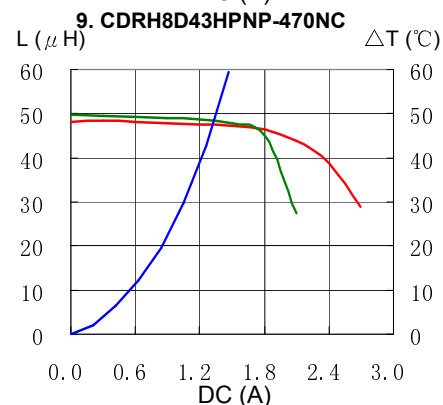
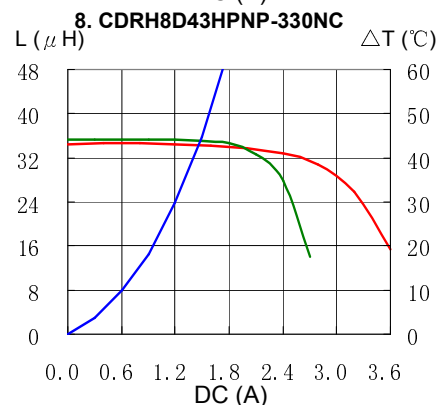
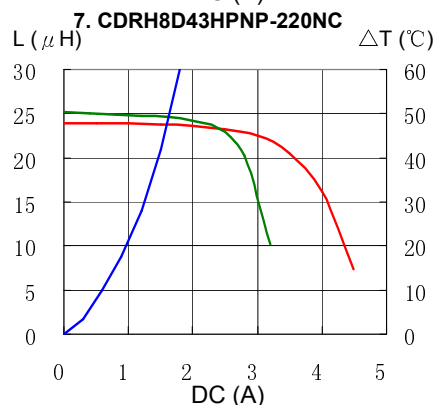
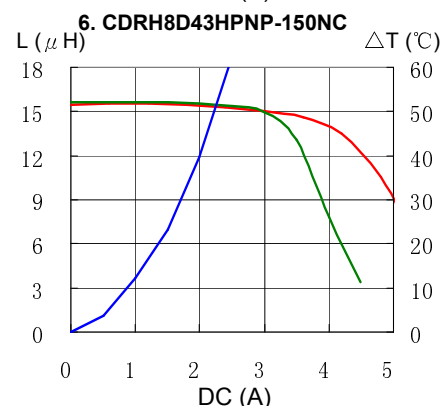
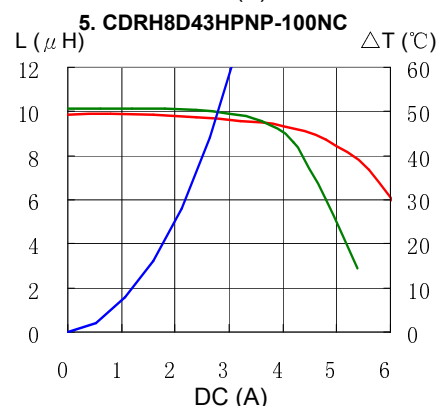
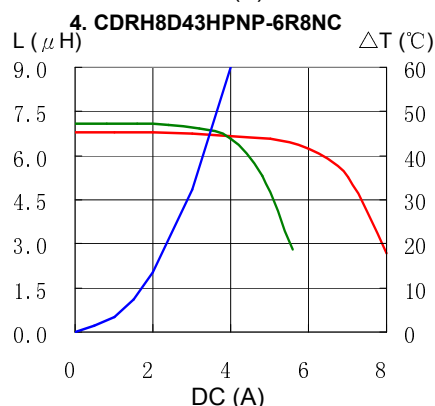
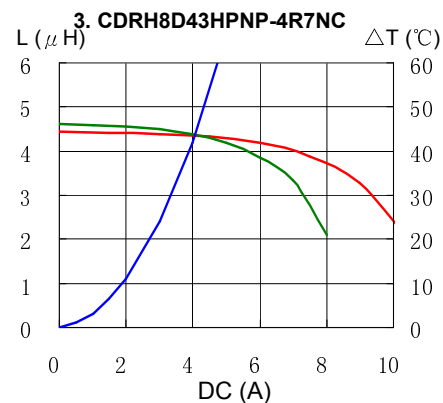
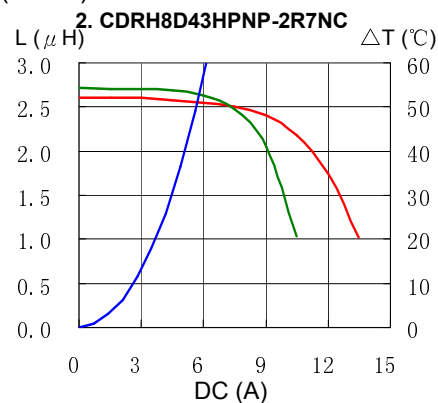
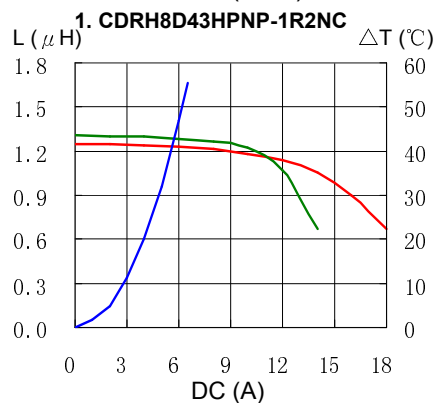
※3. Temperature rise current: The DC current at which the temperature rise is  $\Delta t=40^{\circ}\text{C}$ . ( $T_a=20^{\circ}\text{C}$ )

# SMD Power Inductor CDRH8D43HP



## Saturation Current & Temperature Rise Graph

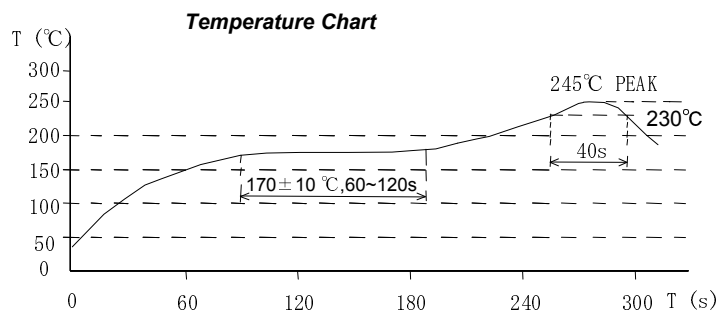
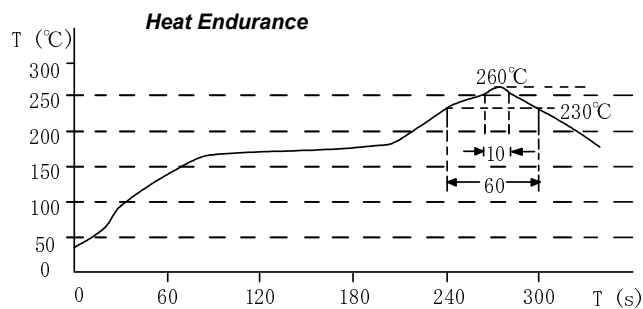
— L (20°C) — L (100°C) —  $\Delta T$



# SMD Power Inductor CDRH8D43HP



## Solder Reflow Condition



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