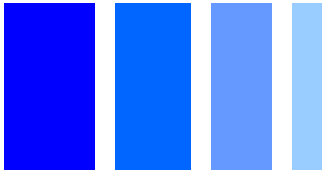


# SMD Power Inductor

## CDRH8D43



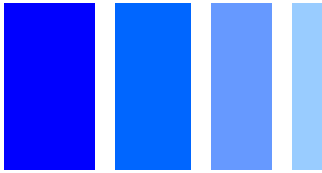
### Electrical Characteristics

| Part Name        | Stamp | Inductance<br>( $\mu$ H)<br>[ within ] ※1 | D.C.R. (m $\Omega$ )<br>Max. (Typ.)<br>(at 20℃) | Saturation<br>Current<br>(A) ※2 (Typ.) | Temperature<br>Rise Current<br>(A) ※3 |
|------------------|-------|-------------------------------------------|-------------------------------------------------|----------------------------------------|---------------------------------------|
| CDRH8D43NP-R68NC | R68   | 0.68 $\pm$ 35%                            | 9.5(7.0)                                        | 9.0(10.80)                             | 7.60                                  |
| CDRH8D43NP-1R2NC | 1R2   | 1.2 $\pm$ 35%                             | 12.2(9.0)                                       | 8.0(10.50)                             | 7.00                                  |
| CDRH8D43NP-2R0NC | 2R0   | 2.0 $\pm$ 30%                             | 14(11)                                          | 7.0(9.00)                              | 6.30                                  |
| CDRH8D43NP-3R9NC | 3R9   | 3.9 $\pm$ 30%                             | 19(15)                                          | 5.9(7.50)                              | 4.90                                  |
| CDRH8D43NP-4R7NC | 4R7   | 4.7 $\pm$ 30%                             | 22(17)                                          | 5.6(7.20)                              | 4.60                                  |
| CDRH8D43NP-6R8NC | 6R8   | 6.8 $\pm$ 30%                             | 25(20)                                          | 4.4(5.80)                              | 4.30                                  |
| CDRH8D43NP-100NC | 100   | 10 $\pm$ 30%                              | 36(29)                                          | 4.0(5.50)                              | 3.50                                  |
| CDRH8D43NP-150NC | 150   | 15 $\pm$ 30%                              | 53(42)                                          | 2.9(3.60)                              | 2.55                                  |
| CDRH8D43NP-220NC | 220   | 22 $\pm$ 30%                              | 75(60)                                          | 2.6(3.25)                              | 2.10                                  |
| CDRH8D43NP-330NC | 330   | 33 $\pm$ 30%                              | 125(100)                                        | 2.2(2.60)                              | 1.55                                  |
| CDRH8D43NP-470NC | 470   | 47 $\pm$ 30%                              | 150(120)                                        | 1.8(2.25)                              | 1.42                                  |
| CDRH8D43NP-680NC | 680   | 68 $\pm$ 30%                              | 240(190)                                        | 1.5(1.76)                              | 1.15                                  |
| CDRH8D43NP-101NC | 101   | 100 $\pm$ 30%                             | 360(290)                                        | 1.3(1.55)                              | 0.88                                  |

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

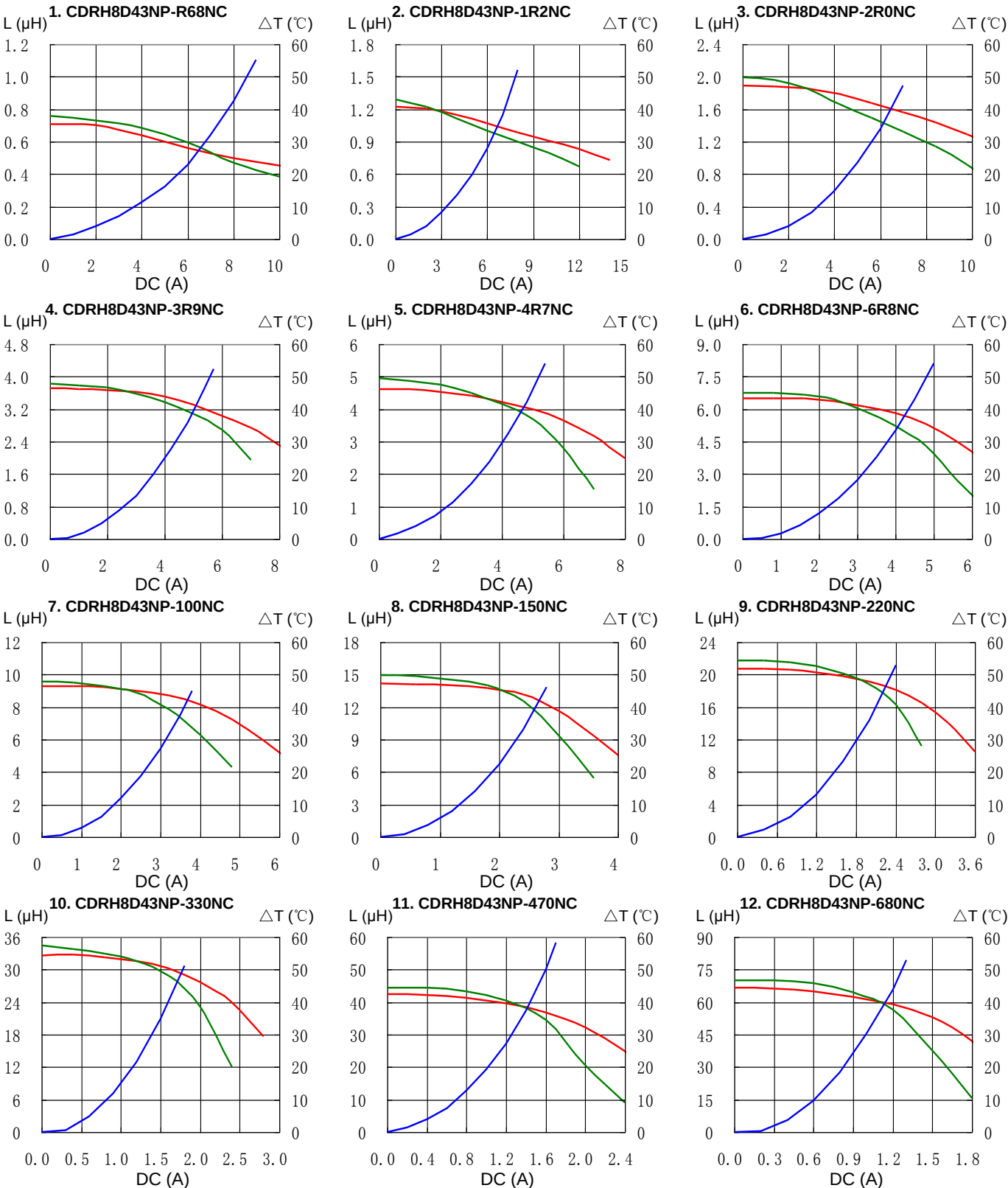
# SMD Power Inductor

## CDRH8D43



### Saturation Current & Temperature Rise Graph

— L (20°C) — L (100°C) —  $\Delta T$

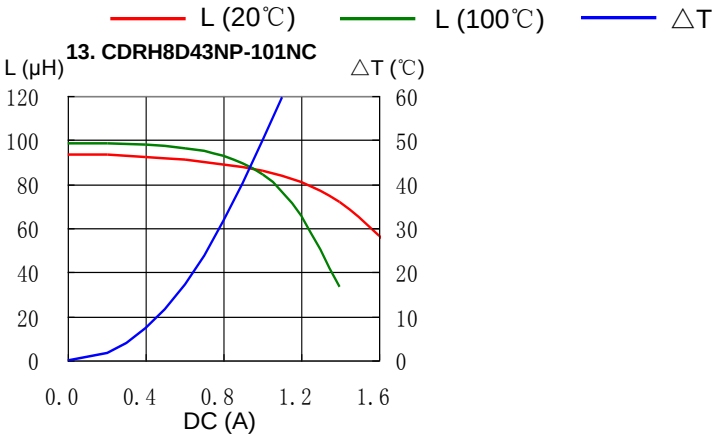


# SMD Power Inductor

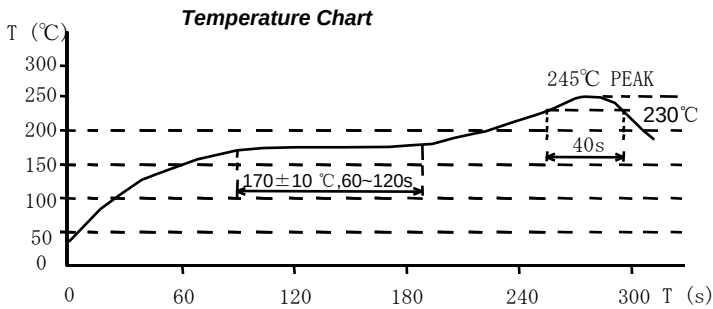
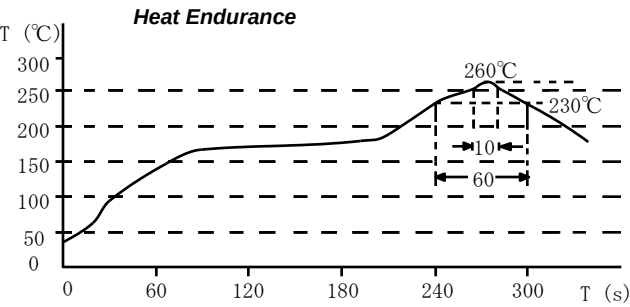
## CDRH8D43



### Saturation Current & Temperature Rise Graph



### Solder Reflow Condition



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