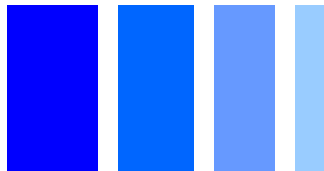


# SMD Power Inductor

## CDRH3D18



### 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 |                                       |
| CDRH3D18NP-1R0NC | A     | 1.0 $\pm$ 30%                           | 50(40)                                           | 2.80                         | 2.00     | 2.40                                  |
| CDRH3D18NP-2R2NC | B     | 2.2 $\pm$ 30%                           | 63(50)                                           | 1.80                         | 1.30     | 2.00                                  |
| CDRH3D18NP-3R0NC | C     | 3.0 $\pm$ 30%                           | 69(55)                                           | 1.60                         | 1.20     | 1.80                                  |
| CDRH3D18NP-4R7NC | D     | 4.7 $\pm$ 30%                           | 107.5(86)                                        | 1.35                         | 0.95     | 1.35                                  |
| CDRH3D18NP-6R8NC | E     | 6.8 $\pm$ 30%                           | 150(120)                                         | 1.10                         | 0.80     | 1.10                                  |
| CDRH3D18NP-100NC | F     | 10.0 $\pm$ 30%                          | 205(164)                                         | 0.90                         | 0.65     | 0.90                                  |
| CDRH3D18NP-120NC | G     | 12.0 $\pm$ 30%                          | 275(220)                                         | 0.80                         | 0.60     | 0.80                                  |
| CDRH3D18NP-150NC | H     | 15.0 $\pm$ 30%                          | 302(241)                                         | 0.75                         | 0.55     | 0.75                                  |
| CDRH3D18NP-220NC | I     | 22.0 $\pm$ 30%                          | 424(339)                                         | 0.60                         | 0.45     | 0.60                                  |
| CDRH3D18NP-330NC | J     | 33.0 $\pm$ 30%                          | 640(512)                                         | 0.50                         | 0.35     | 0.45                                  |
| CDRH3D18NP-470NC | K     | 47.0 $\pm$ 30%                          | 964(771)                                         | 0.40                         | 0.30     | 0.35                                  |

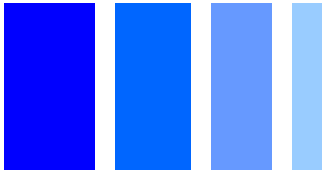
※1. Inductance measuring condition: at 100kHz.

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

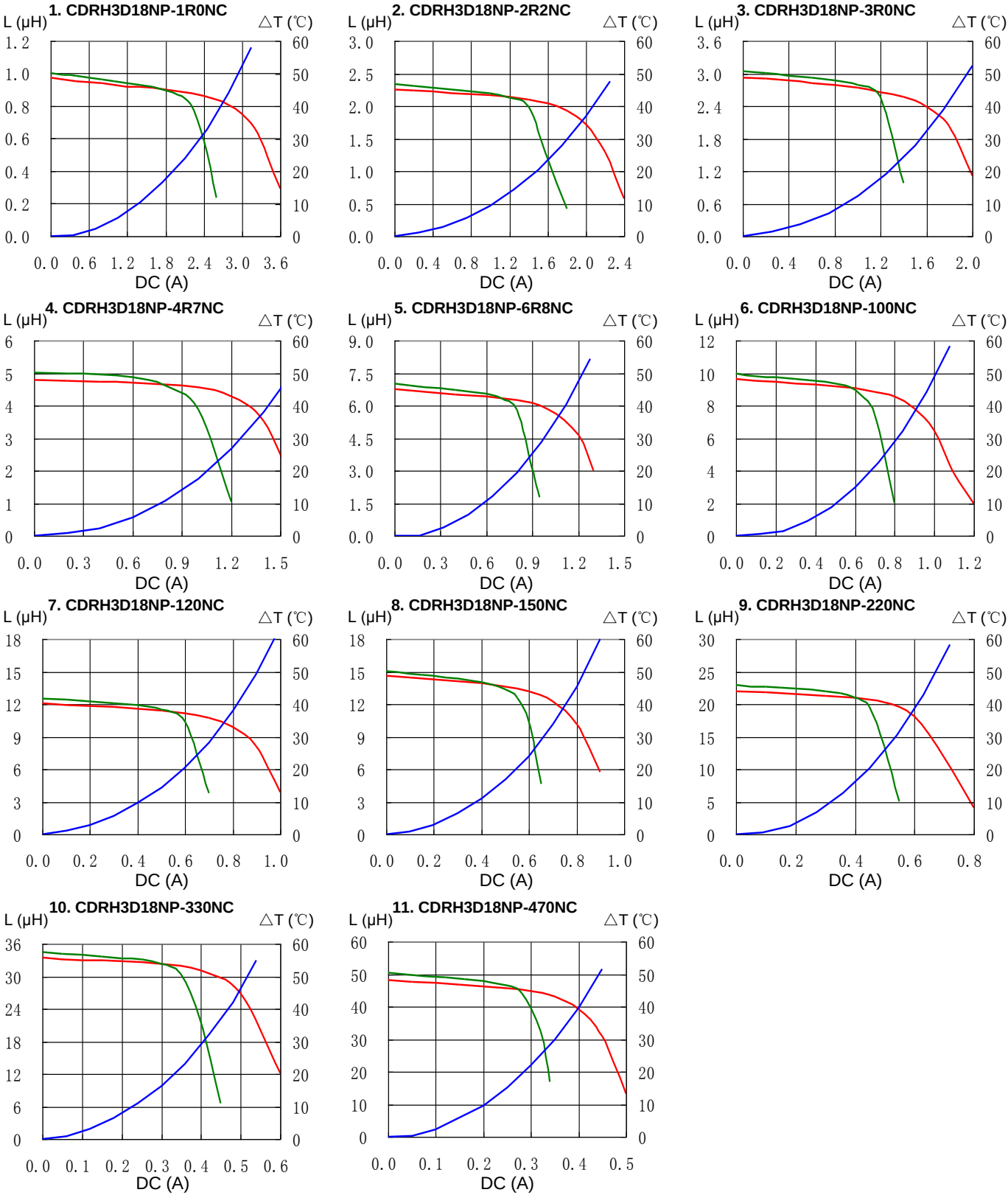
# SMD Power Inductor

## CDRH3D18



### Saturation Current & Temperature Rise Graph

— L (20°C) — L (100°C) —  $\Delta T$

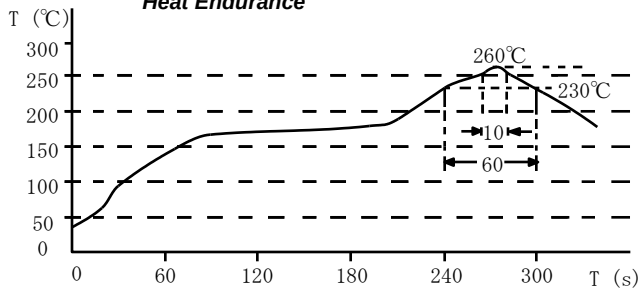


# SMD Power Inductor CDRH3D18

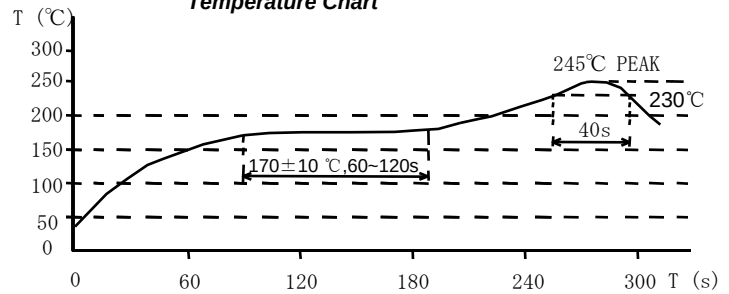


## Solder Reflow Condition

Heat Endurance



Temperature Chart



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