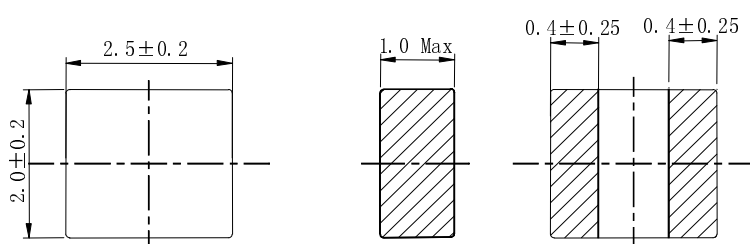


# SMD Power Inductor 252010CDMC/DS

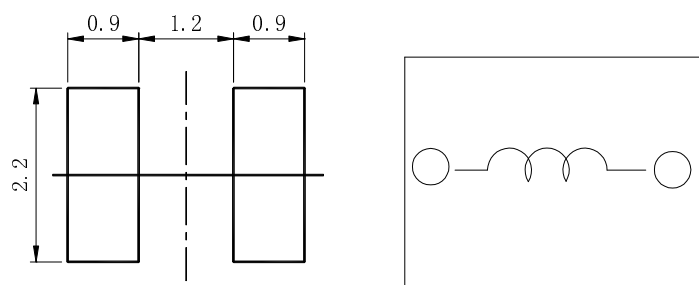


**Halogen  
Free**

## Dimension - [mm]



## Land pattern and Schematics - [mm]



## Description

- Magnetically shielded.
- L × W × H: 2.7 × 2.2 × 1.0 mm Max.
- Product weight: 30mg(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.
- 7.1" diameter reel
- 3000pcs per reel

## Applications

- Ideally used in smart phone, tablet PC, SSD USB3.0 and other low profile high current application.

## Electrical Characteristics

| Part No.           | Inductance<br>[Within]<br>( $\mu$ H) ※1 | D. C. R<br>[Within]<br>(m $\Omega$ ) at<br>25°C | Saturation<br>current<br>Max. (Typ.)<br>(A) ※2 | Temperature<br>rise current<br>Max. (Typ.) (A)<br>Thermocouple<br>Method ※3 |
|--------------------|-----------------------------------------|-------------------------------------------------|------------------------------------------------|-----------------------------------------------------------------------------|
| 252010CDMCDS-R47MC | 0.47 ± 20%                              | 28 ± 20%                                        | 4.4 (5.5)                                      | 3.6 (4.1)                                                                   |
| 252010CDMCDS-1R0MC | 1.0 ± 20%                               | 50 ± 20%                                        | 3.0 (4.0)                                      | 2.7 (3.0)                                                                   |
| 252010CDMCDS-1R5MC | 1.5 ± 20%                               | 80 ± 20%                                        | 2.6 (3.5)                                      | 2.1 (2.4)                                                                   |
| 252010CDMCDS-2R2MC | 2.2 ± 20%                               | 103 ± 20%                                       | 2.2 (2.7)                                      | 2.0 (2.2)                                                                   |
| 252010CDMCDS-3R3MC | 3.3 ± 20%                               | 190 ± 20%                                       | 1.6 (2.2)                                      | 1.2 (1.6)                                                                   |
| 252010CDMCDS-4R7MC | 4.7 ± 20%                               | 240 ± 20%                                       | 1.4 (1.9)                                      | 1.0 (1.4)                                                                   |

※1. Inductance measuring condition: at 1MHz.

※2 Saturation current: The value of DC current when the inductance is over 70% of the initial value. (at 25°C )

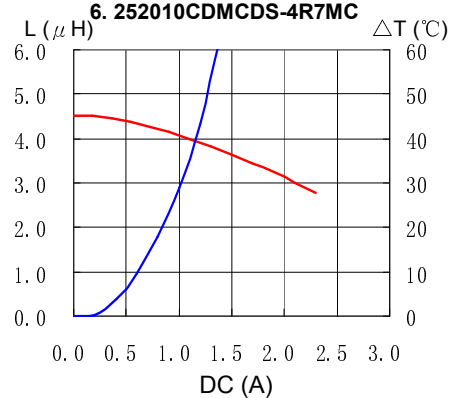
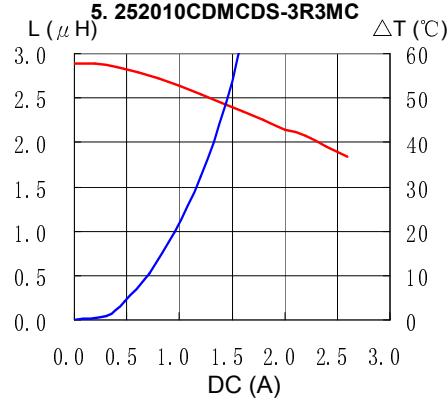
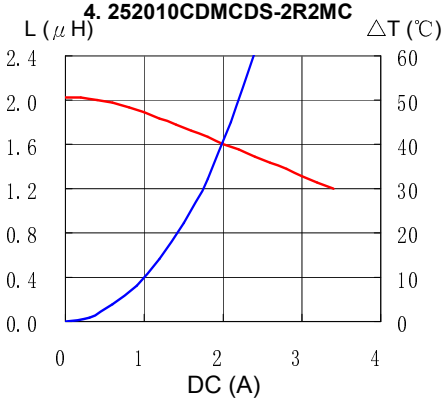
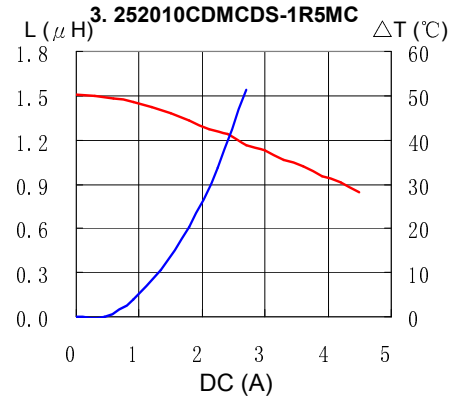
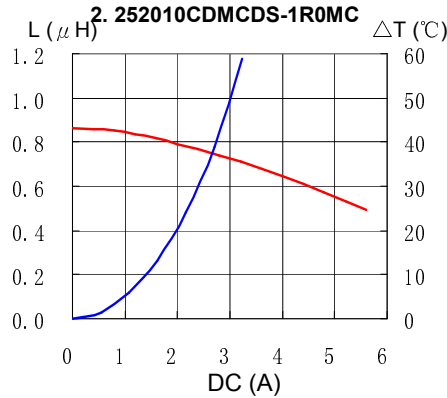
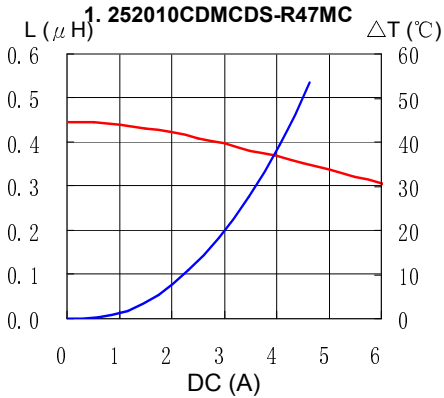
※3 Temperature rise current: The actual value of DC current when the top surface temperature of test sample rise is  $\Delta T = 40^\circ\text{C}$  ( $T_a = 25^\circ\text{C}$ ).

# SMD Power Inductor 252010CDMC/DS

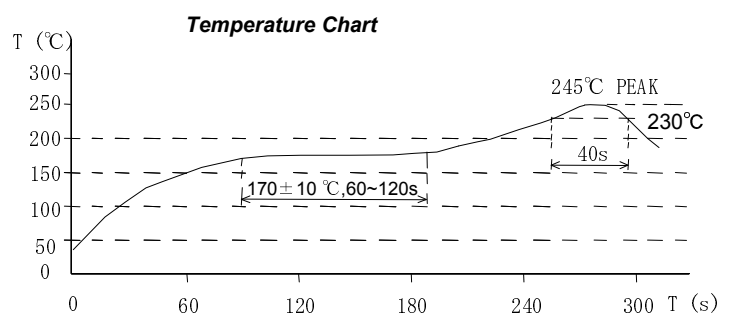
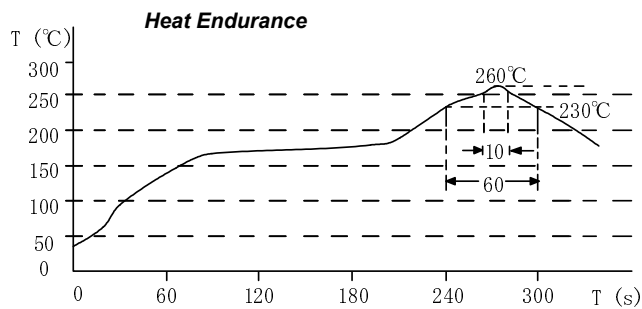


## Saturation Current & Temperature Rise Graph

— L (20°C) —  $\Delta T$



## Solder Reflow Condition



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