

# SMD Power Inductor 252010CDMC/DS



Halogen Free

## 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.

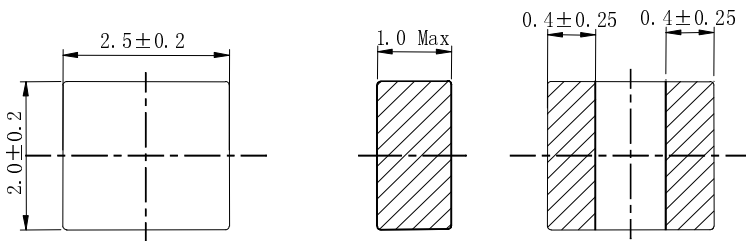
## Packaging

- Carrier tape and reel packaging.
- 7.1" diameter reel
- 3000pcs per reel

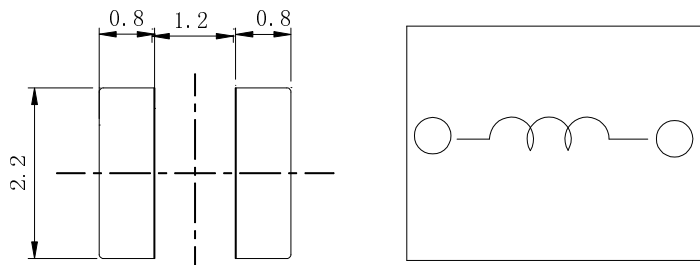
## Applications

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

## Dimension - [mm]



## Land pattern and Schematics - [mm]



## Electrical Characteristics

Part No.	Inductance [Within] ( $\mu$ H) ※1	D. C. R [Within] (m $\Omega$ ) at 25°C	Saturation current Max. (Typ.) (A) ※2	Temperature rise current Max. (Typ.) (A) Thermocouple 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 )

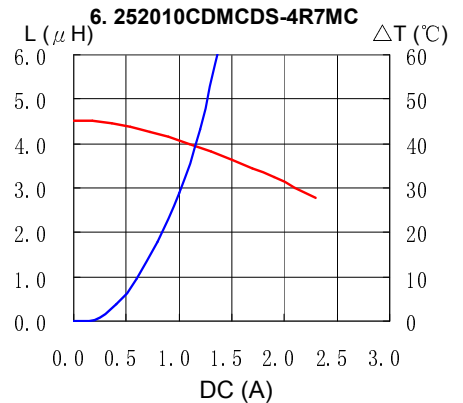
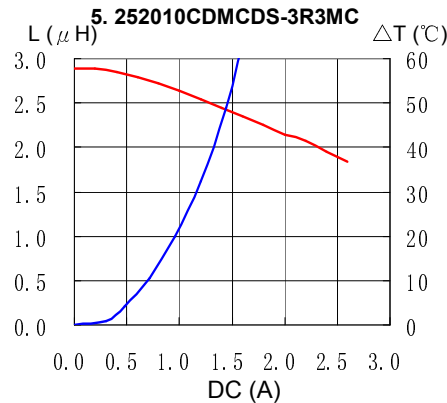
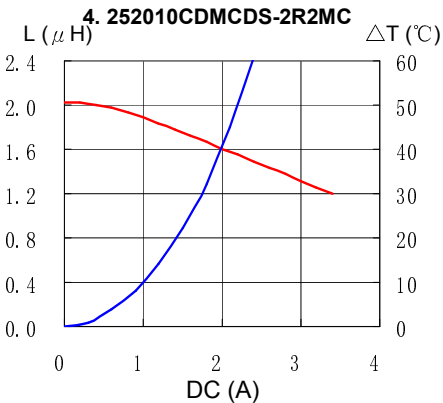
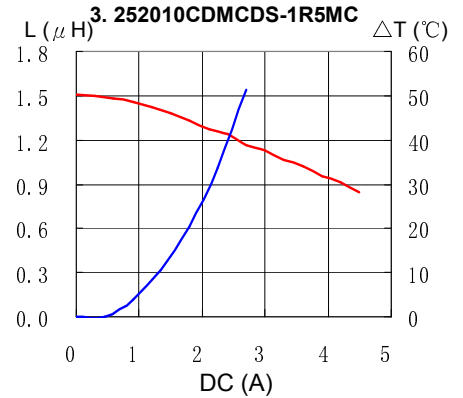
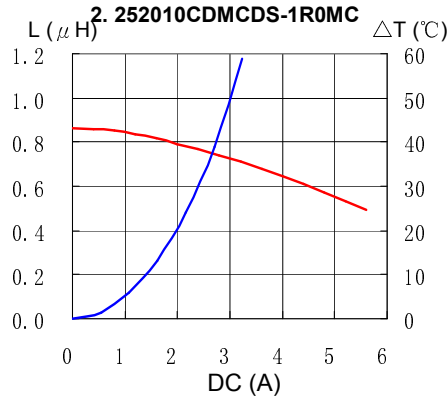
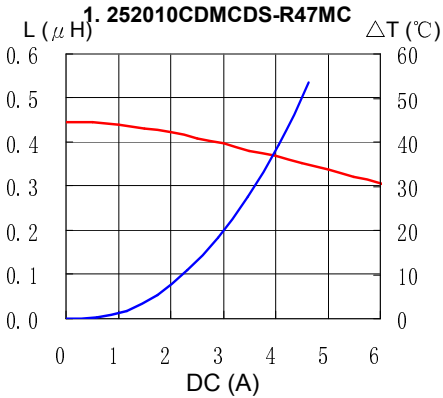
※3 Temperature rise current: The actual value of DC current when the top surface temperature of test sample rise is  $\Delta T = 40^\circ\text{C}$  ( $T_a = 25^\circ\text{C}$ ).

# SMD Power Inductor 252010CDMC/DS

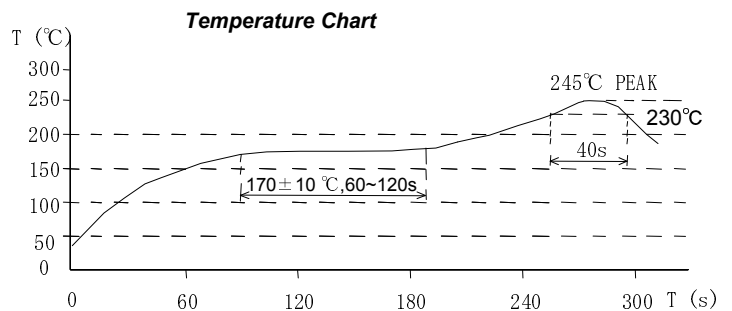
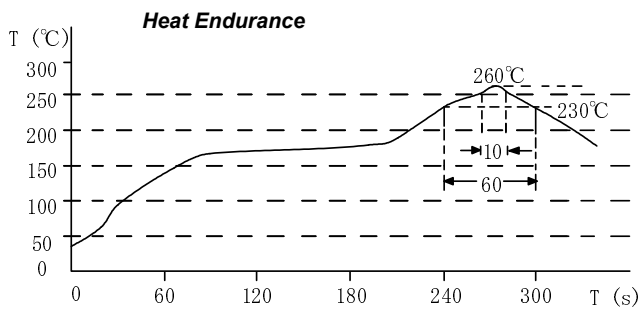


## Saturation Current & Temperature Rise Graph

— L (20°C) —  $\Delta T$



## Solder Reflow Condition



Please refer to the sales offices on our website - <http://www.sumida.com>

**Hong Kong**  
Tel.+852-2880-6688  
FAX.+852-2565-9600  
[sales@hk.sumida.com](mailto:sales@hk.sumida.com)

**Tokyo**  
Tel.+81-3-5202-7112  
FAX.+81-3-5202-7105  
[sales@jp.sumida.com](mailto:sales@jp.sumida.com)

**Chicago**  
Tel.+1-847-545-6700  
FAX. +1-847-545-6720  
[sales@us.sumida.com](mailto:sales@us.sumida.com)

**Shanghai**  
Tel.+86-021-5836-3299  
FAX.+86-021-5836-3266  
[shanghai.sales@cn.sumida.com](mailto:shanghai.sales@cn.sumida.com)

**Seoul**  
Tel.+82-2-6237-0777  
FAX.+82-2-6237-0778  
[sales@kr.sumida.com](mailto:sales@kr.sumida.com)

**Oberzell**  
Tel.+49-8591-937-0  
FAX. +49-8591-937-103  
[contact@sumida-eu.com](mailto:contact@sumida-eu.com)

**Shenzhen**  
Tel.+86-755-8291-0228  
FAX.+86-755-8291-0338  
[shenzhen.sales@cn.sumida.com](mailto:shenzhen.sales@cn.sumida.com)

**Singapore**  
Tel.+65-6296-3388  
FAX.+65-6296-3390  
[sales@sg.sumida.com](mailto:sales@sg.sumida.com)

**Neumarkt**  
Tel.+49-9181-4509-110  
FAX. +49-9181-4509-310  
[infocomp@eu.sumida.com](mailto:infocomp@eu.sumida.com)

**Taipei**  
Tel.+886-2-8751-2737  
FAX.+886-2-8751-2738  
[sales@tw.sumida.com](mailto:sales@tw.sumida.com)

**San Jose**  
Tel.+1-408-321-9660  
FAX.+1-408-321-9308  
[sales@us.sumida.com](mailto:sales@us.sumida.com)