

## Excellent Integrated System Limited

Stocking Distributor

Click to view price, real time Inventory, Delivery & Lifecycle Information:

[Sumida Corporation](#)  
[252010CDMCDS-R47MC](#)

For any questions, you can email us directly:

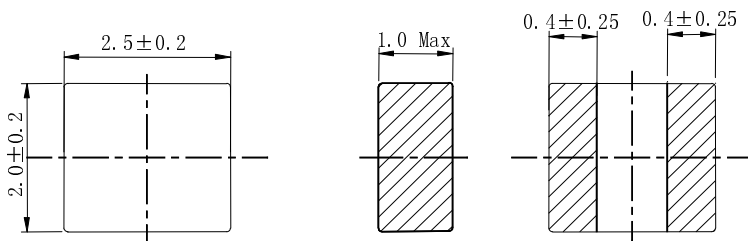
[sales@integrated-circuit.com](mailto:sales@integrated-circuit.com)

# SMD Power Inductor 252010CDMC/DS

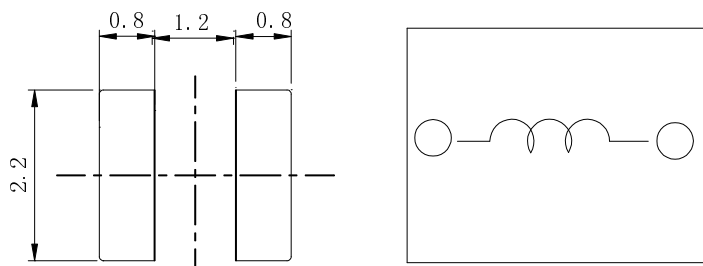


Halogen Free

### 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 (μH) [Within] ※1	D.C.R (mΩ) [within] at 25°C	Saturation Current (A) ※2 (Max.)	Temperature rise current [Typ.] (A) Thermocouple Method ※3
252010CDMCDS-R47MC	0.47 ± 20%	28 ± 20%	4.4	4.1
252010CDMCDS-1R0MC	1.0 ± 20%	50 ± 20%	3.2	3.0
252010CDMCDS-1R5MC	1.5 ± 20%	80 ± 20%	2.6	2.4
252010CDMCDS-2R2MC	2.2 ± 20%	103 ± 20%	2.4	2.2
252010CDMCDS-3R3MC	3.3 ± 20%	190 ± 20%	1.6	1.6
252010CDMCDS-4R7MC	4.7 ± 20%	240 ± 20%	1.4	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 )

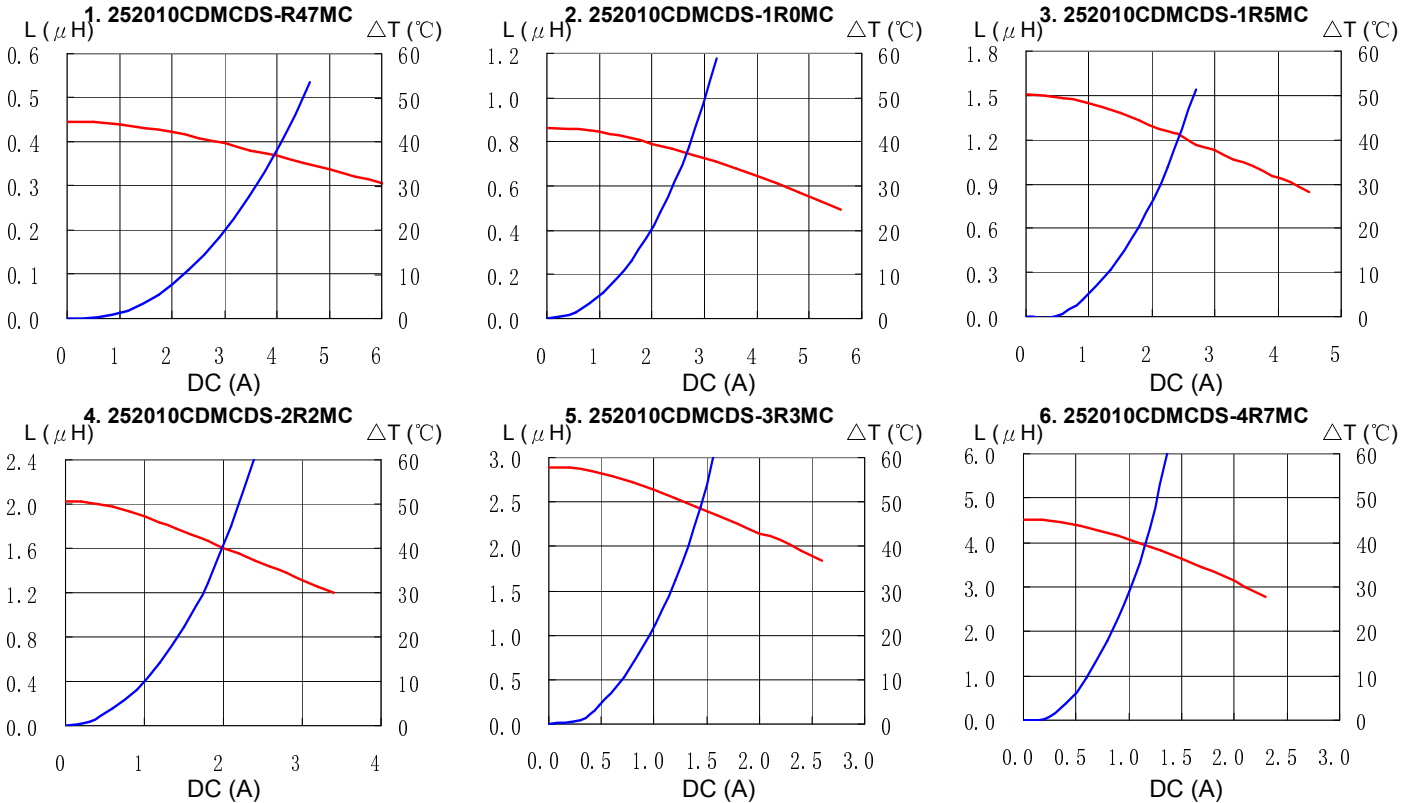
※3 Temperature rise current: The actual value of DC current when the top surface temperature of test sample rise is ΔT= 40°C(Ta=25°C).

# SMD Power Inductor 252010CDMC/DS

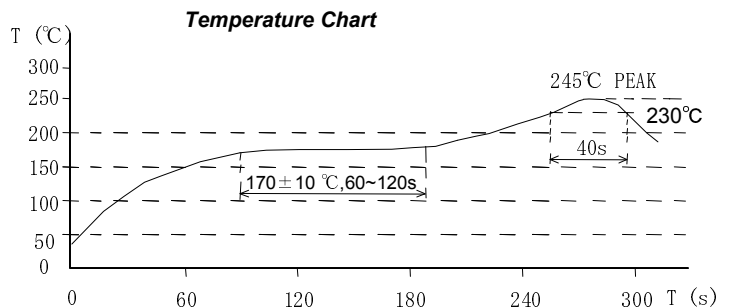
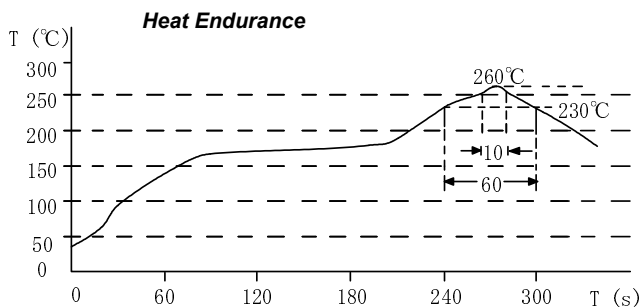


## Saturation Current & Temperature Rise Graph

— 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)  
**Obernzell**  
 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)