

# 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.

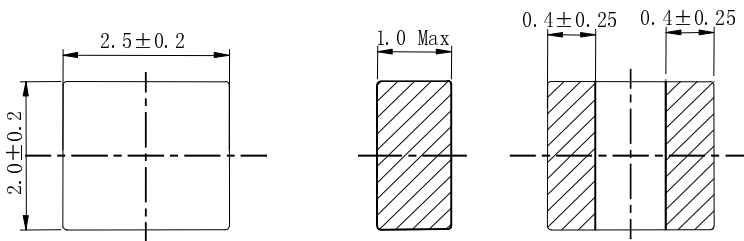
## Packaging

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

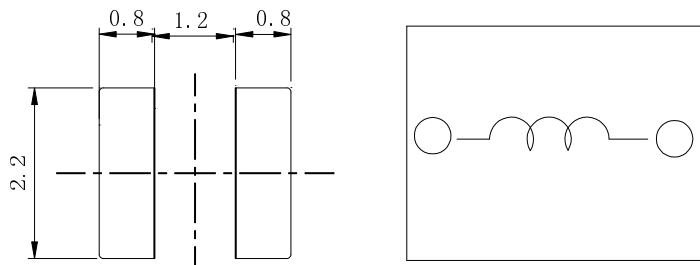
## Applications

- 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 ( $\mu$ H) [Within] ※1	D.C.R (m $\Omega$ ) [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 )

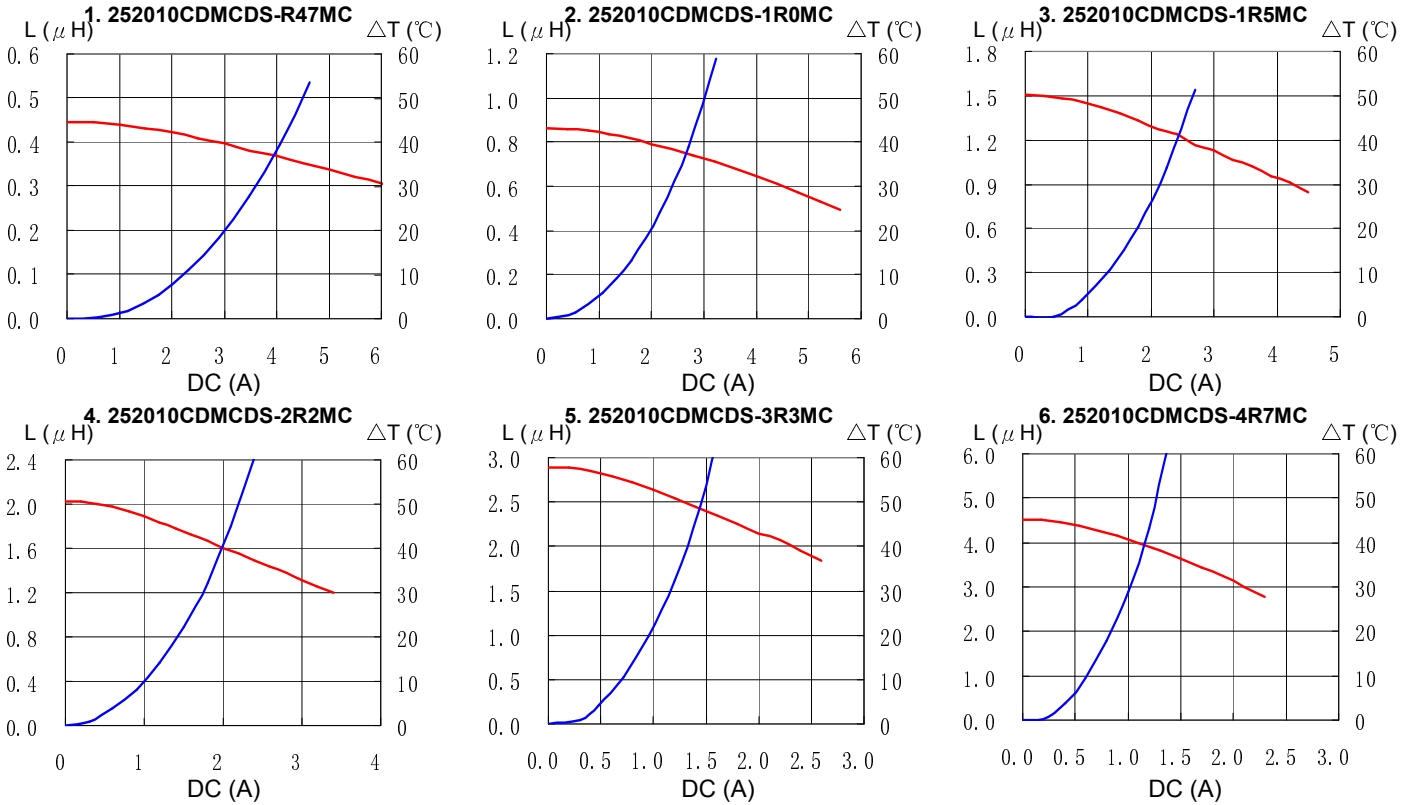
※3 Temperature rise current: The actual value of DC current when the top surface temperature of test sample rise is  $\Delta T = 40^\circ\text{C}$  ( $T_a = 25^\circ\text{C}$ ).

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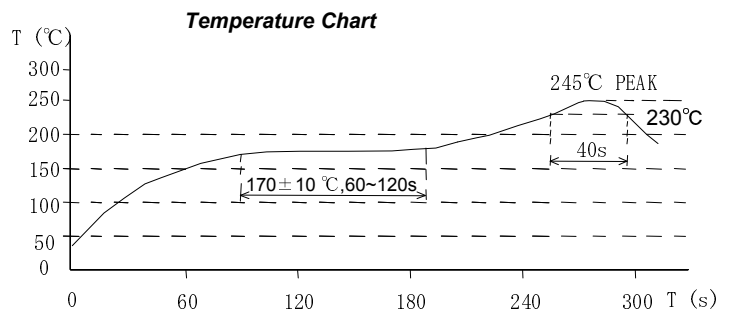
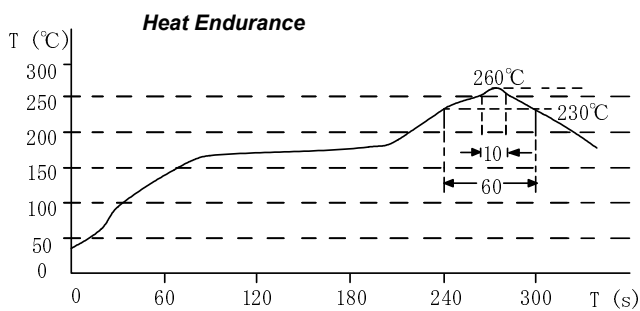


## Saturation Current & Temperature Rise Graph

— L (20°C) —  $\Delta T$



## Solder Reflow Condition



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

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