

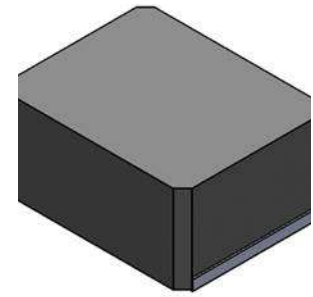
# SMD Power Inductor

## 252010CDMCD/DS



### Description

- Metal compound molding type construction
- Magnetically shielded
- Low audible core noise
- Suitable for large current.
- LxWxH:2.7x2.2x1.0mm Max.
- Product weight: 0.31mg (Ref.)
- Moisture Sensitivity Level: 1



### Environmental Data

- Operating temperature range: -55°C~+125°C (including coil's self temperature rise)
- Storage temperature range: -55°C~+125°C

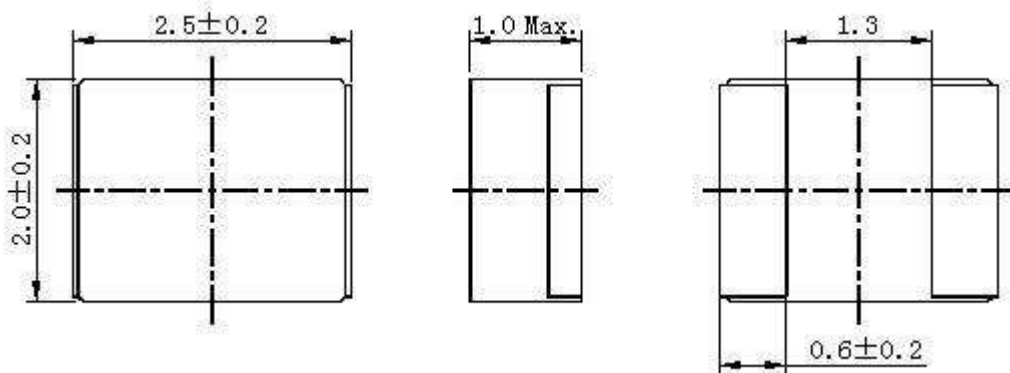
### Packaging

- Carrier tape and reel packaging.
- 3000Pcs per reel

### Applications

- DC/DC converter for CPU in Notebook PC. Smartphones, LCD displays, HDDs, DVDs, DVCs, DSCs, PDAs ect..
- Thin type on-board power supply module for exchanger VRM for server.
- Low profile, high current power supplies
- Battery powered devices

### Dimension - [mm]

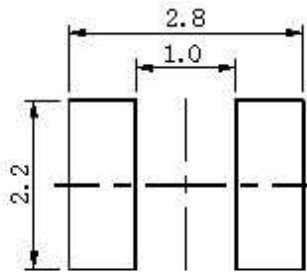


# SMD Power Inductor

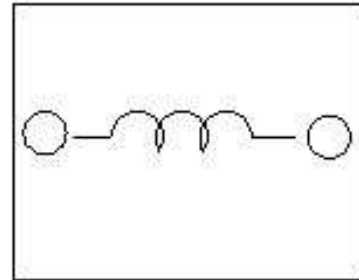
## 252010CDMCD/DS



### Recommended Land pattern - [mm]



### Wire Connection



# SMD Power Inductor

## 252010CDMCD/DS



### Electrical Characteristics

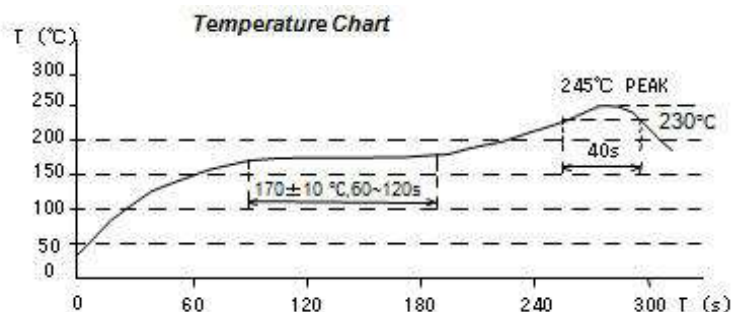
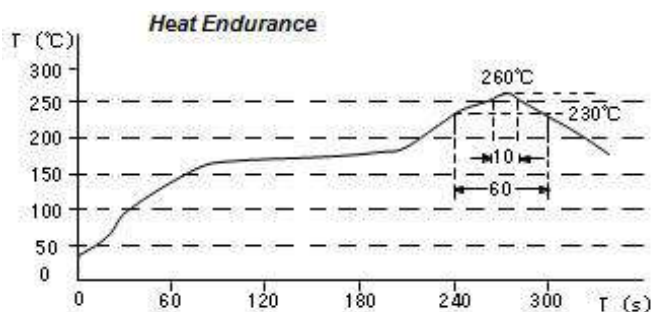
Part Number	Inductance [Within] ( $\mu$ H) ※1	D.C.R. at 20°C (A) Max. (Typ.) (m $\Omega$ )	Saturation Current (A) Max. (Typ.) ※2	Temperature Rise Current (A) (Typ.) ※3
252010CDMCDDS-R47MC	0.47 $\pm$ 20%	21.00 (17.00)	5.20 (6.10)	(6.00)
252010CDMCDDS-R68MC	0.68 $\pm$ 20%	37.00 (31.00)	3.70 (4.40)	(4.20)
252010CDMCDDS-1R0MC	1.00 $\pm$ 20%	48.00 (40.00)	3.40 (4.00)	(4.00)
252010CDMCDDS-1R5MC	1.50 $\pm$ 20%	72.00 (60.00)	2.50 (2.90)	(3.00)
252010CDMCDDS-2R2MC	2.20 $\pm$ 20%	97.00 (85.00)	2.20 (2.60)	(2.50)

※1 Measuring frequency Inductance at 1MHz,0.1V

※2 Saturation current: This indicates the actual actual value of D.C. current when the inductance becomes 30% lower than its initial value.

※3 Temperature rise current: The actual value of D.C. current when the temperature of coil becomes  $\Delta T=40^{\circ}\text{C}$  ( $T_a=25^{\circ}\text{C}$ ). (Test board condition: FR4, Copper=70  $\mu$  m, four-layer PWB t=1.6mm)

### Solder Reflow Condition



# SMD Power Inductor

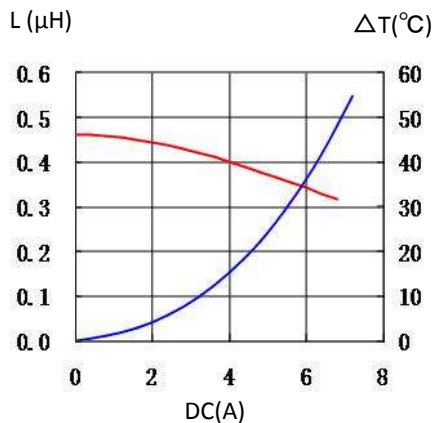
## 252010CDMCD/DS



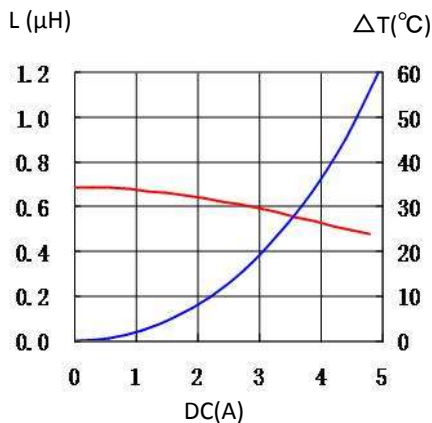
### Saturation Current & Temperature Rise Graph

— L (20°C) —  $\Delta T$

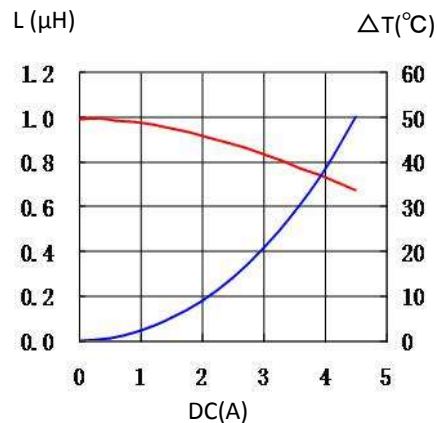
1. 252010CDMCDDS-R47MC



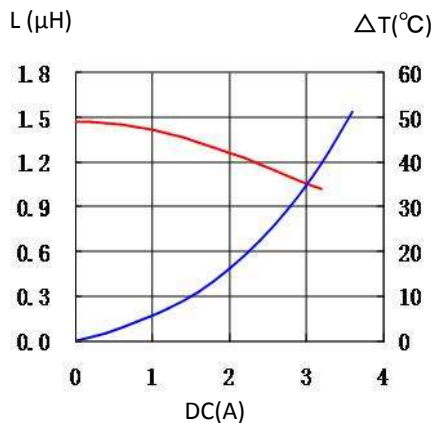
2. 252010CDMCDDS-R68MC



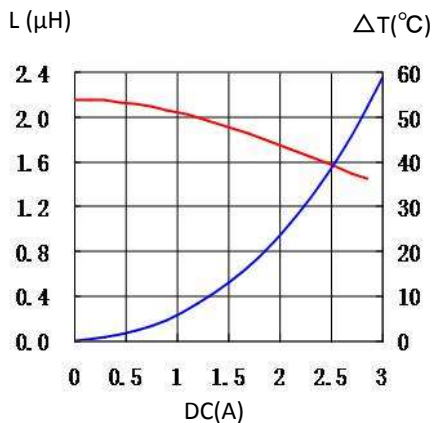
3. 252010CDMCDDS-1R0MC



4. 252010CDMCDDS-1R5MC



5. 252010CDMCDDS-2R2MC



For sales office information, please [click here](#) to visit our website.

## X-ON Electronics

Largest Supplier of Electrical and Electronic Components

*Click to view similar products for [Fixed Inductors](#) category:*

*Click to view products by [Sumida](#) manufacturer:*

Other Similar products are found below :

[MLZ1608M6R8WTD25](#) [MLZ1608N6R8LT000](#) [MLZ1608N3R3LTD25](#) [MLZ1608N3R3LT000](#) [MLZ1608N150LT000](#)  
[MLZ1608M150WTD25](#) [MLZ1608M3R3WTD25](#) [MLZ1608M3R3WT000](#) [MLZ1608M150WT000](#) [MLZ1608A1R5WT000](#)  
[MLZ1608N1R5LT000](#) [B82432C1333K000](#) [PCMB053T-1R0MS](#) [PCMB053T-1R5MS](#) [PCMB104T-1R5MS](#) [CR32NP-100KC](#) [CR32NP-151KC](#) [CR32NP-180KC](#) [CR32NP-181KC](#) [CR32NP-1R5MC](#) [CR32NP-390KC](#) [CR32NP-3R9MC](#) [CR32NP-680KC](#) [CR32NP-820KC](#)  
[CR32NP-8R2MC](#) [CR43NP-390KC](#) [CR43NP-560KC](#) [CR43NP-680KC](#) [CR54NP-181KC](#) [CR54NP-470LC](#) [CR54NP-820KC](#) [CR54NP-8R5MC](#)  
[MGDQ4-00004-P](#) [MGDU1-00016-P](#) [MHL1ECTTP18NJ](#) [MHL1JCTTD12NJ](#) [PE-51506NL](#) [PE-53601NL](#) [PE-53630NL](#) [PE-53824SNLT](#) [PE-62892NL](#) [PE-92100NL](#) [PG0434.801NLT](#) [PG0936.113NLT](#) [PM06-2N7](#) [PM06-39NJ](#) [HC2LP-R47-R](#) [HC2-R47-R](#) [HC3-2R2-R](#) [HC8-1R2-R](#)