

# SMD Power Inductor

## 252012CDMCC/DS



### Description

- Metal compound molding type construction
- Magnetically shielded
- Low audible core noise
- Suitable for large current.
- LxWxH:2.7x2.2x1.2mm Max.
- Product weight: 0.36mg (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

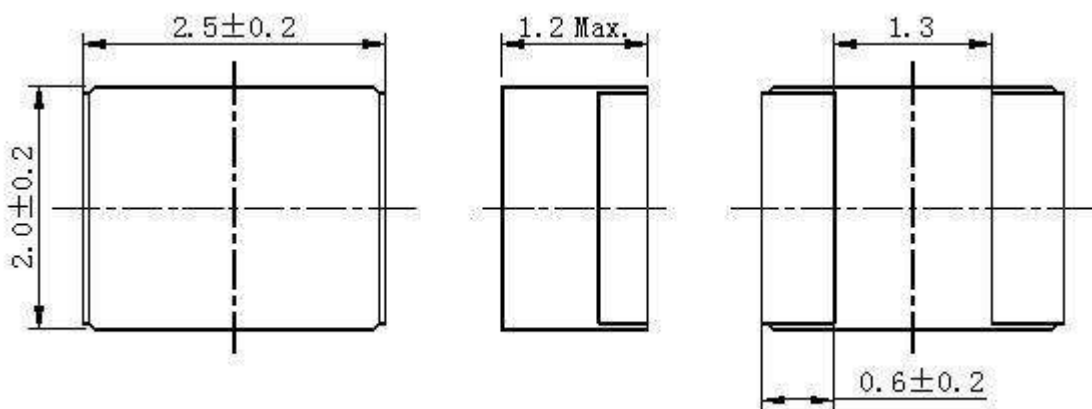
### Packaging

- Carrier tape and reel packaging. 3,000pcs per reel.

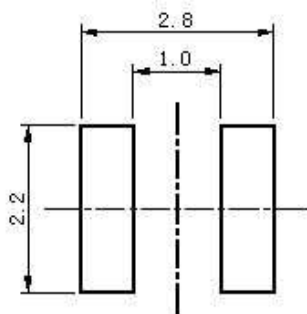
### Applications

- 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.

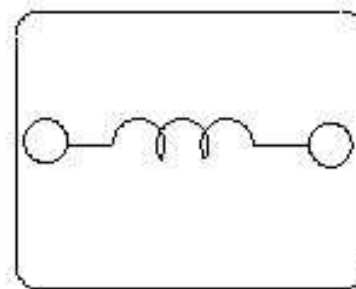
### Dimension - [mm]



### Recommended Land pattern - [mm]



### Wire Connection



Note: This specification is subject to change without notice. Please contact your nearest sales office for updated information when placing an order.

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### Electrical Characteristics

Part Number	Inductance [Within] ( $\mu$ H) ※1	D.C.R. at 20°C max(typ) (m $\Omega$ )	Saturation Current at 20°C(A) ※2	Temperature Rise Current (A) ※3
252012CDMCCDS-R47MC	0.47 $\pm$ 20%	25.00 (21.00)	6.10	4.80
252012CDMCCDS-1R0MC	1.00 $\pm$ 20%	55.00 (46.00)	3.90	3.20
252012CDMCCDS-2R2MC	2.20 $\pm$ 20%	113 (94.00)	2.80	2.00
252012CDMCCDS-3R3MC	3.30 $\pm$ 20%	222 (185)	1.90	1.50
252012CDMCCDS-4R7MC	4.70 $\pm$ 20%	264 (220)	1.70	1.40

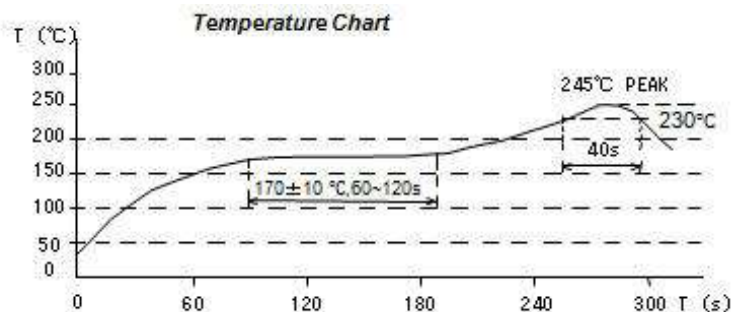
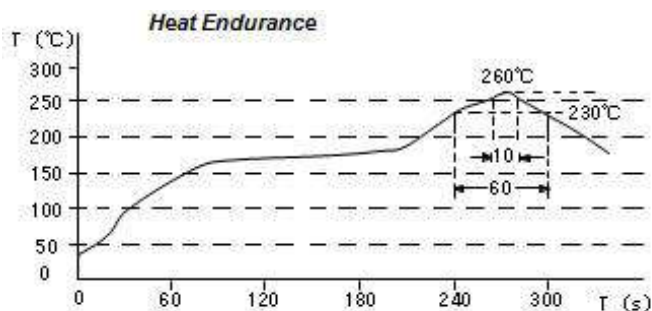
※ 1. Measuring frequency Inductance at 1MHz, 0. 1V.

※ 2. Saturation current: The actual value of D.C current when the inductance decreases to 70% of it's initial value.

※ 3. Temperature rise current: The actual value of DC current when the coil temperature rise is  $\Delta T=40^{\circ}\text{C}$

( $T_a=25^{\circ}\text{C}$ ) Board conditions: FR4, Copper=70  $\mu$  m, four-layer PWB,  $t=1.6\text{mm}$ .

### Solder Reflow Condition



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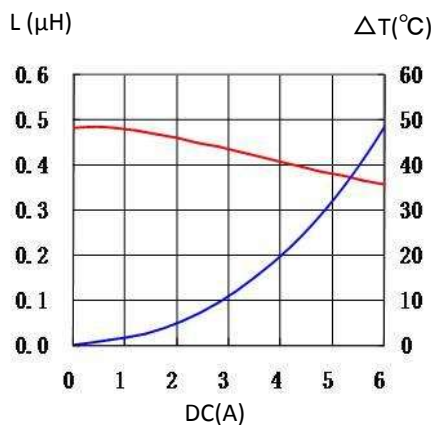
## 252012CDMCC/DS



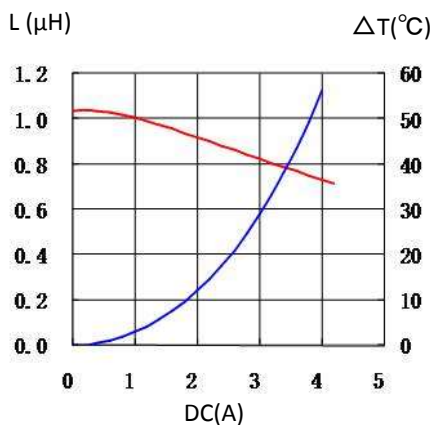
### Saturation Current & Temperature Rise Graph

— L (20°C) —  $\Delta T$

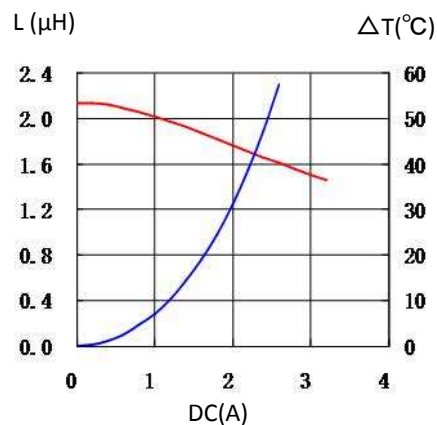
1. 252012CDMCCDS-R47MC



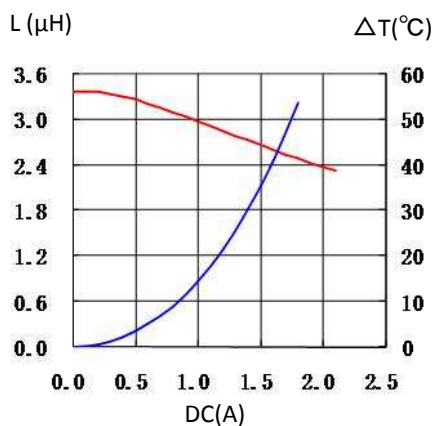
2. 252012CDMCCDS-1R0MC



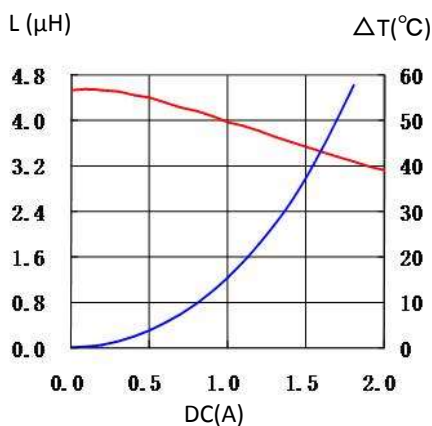
3. 252012CDMCCDS-2R2MC



4. 252012CDMCCDS-3R3MC



5. 252012CDMCCDS-4R7MC



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