# SMD Power Inductor

## 252012CDMCC/DS

RoHS Compliance Cd Max. 0.01wt% Others Max. 0.1wt%

Halogen Free

sumida

Recommended Type

### Description

- Metal compound molding type construction
- Magnetically shielded
- Low audible core noise
- Suitable for large current.
- L×W×H:2.7×2.2×1.2mm 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

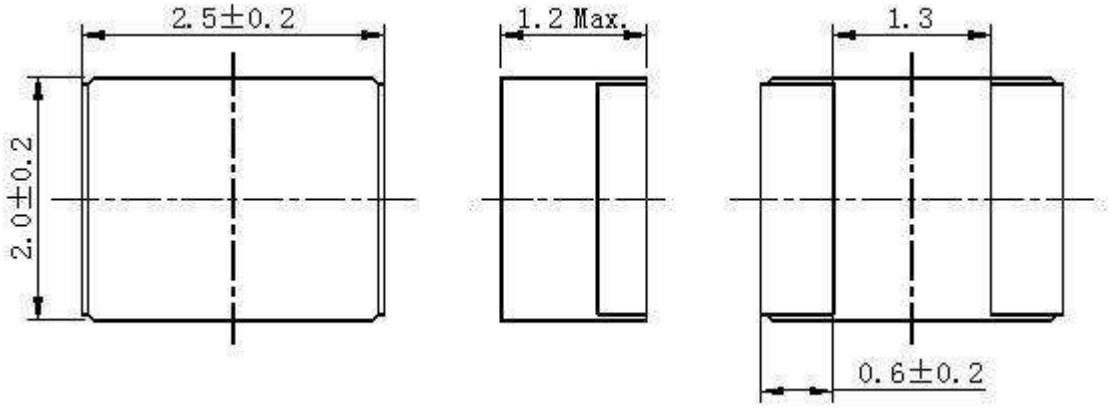
### Packaging

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

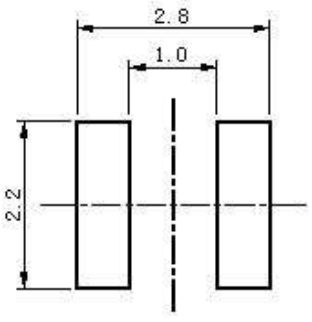
### Applications

- 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.

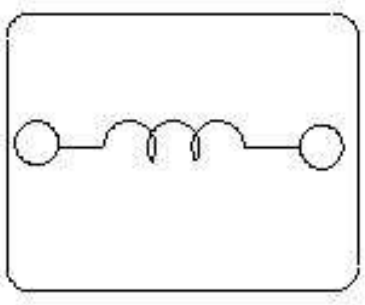
### Dimension - [mm]




### 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] (μH) ※1 | D.C.R. at 20℃ max(typ) (mΩ) | Saturation Current at 20℃(A) ※2 | Temperature Rise Current (A) ※3 |
|---|---|---|---|---|
| 252012CDMCCDS-R47MC | 0.47 ± 20% | 25.00 (21.00) | 6.10 | 4.80 |
| 252012CDMCCDS-1R0MC | 1.00 ± 20% | 55.00 (46.00) | 3.90 | 3.20 |
| 252012CDMCCDS-2R2MC | 2.20 ± 20% | 113 (94.00) | 2.80 | 2.00 |
| 252012CDMCCDS-3R3MC | 3.30 ± 20% | 222 (185) | 1.90 | 1.50 |
| 252012CDMCCDS-4R7MC | 4.70 ± 20% | 264 (220) | 1.70 | 1.40 |

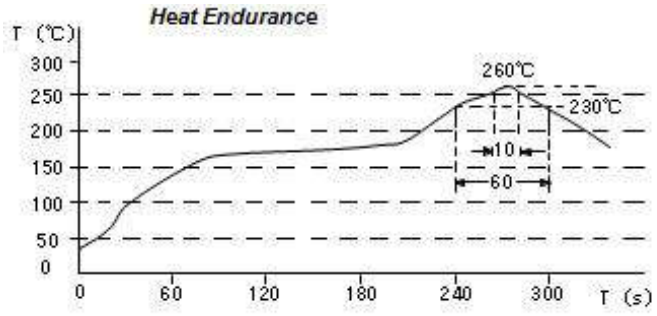
※ 1. Measuring frequency Inductance at 1MHz, 0. 1V.

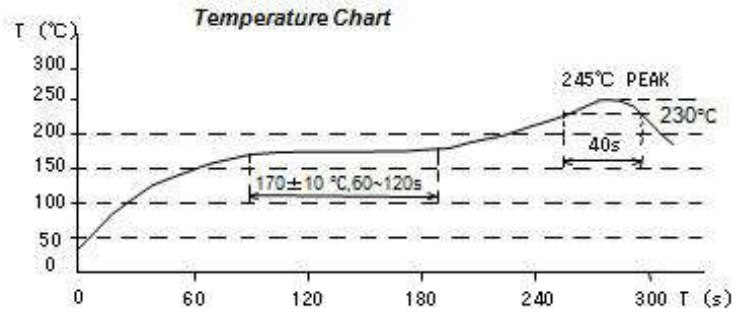
※ 2. Saturation current: The actual value of D.C current when the inductance decreases to 70% of it's initial value.

※ 3. Temperature rise current: The actual value of DC current when the coil temperature rise is △T=40°C

(Ta=25°C) Board conditions: FR4, Copper=70μm, four-layer PWB, t=1.6mm.

### Solder Reflow Condition

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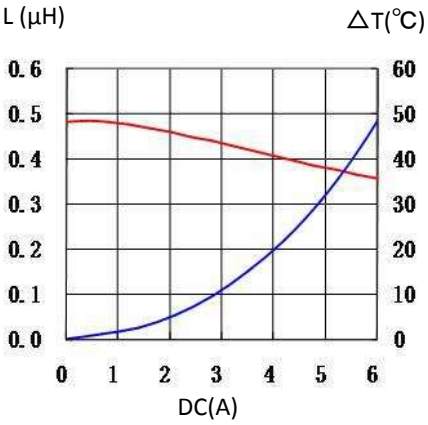
## 252012CDMCC/DS

Recommended Type

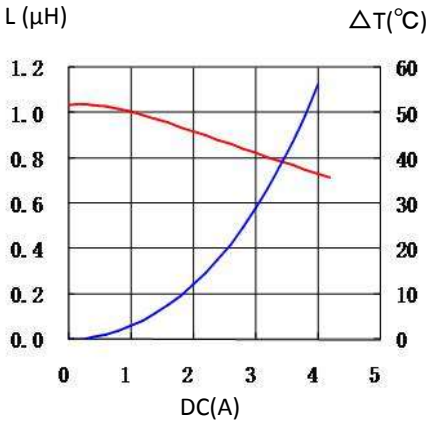
### Saturation Current & Temperature Rise Graph

L (20°C) ΔT

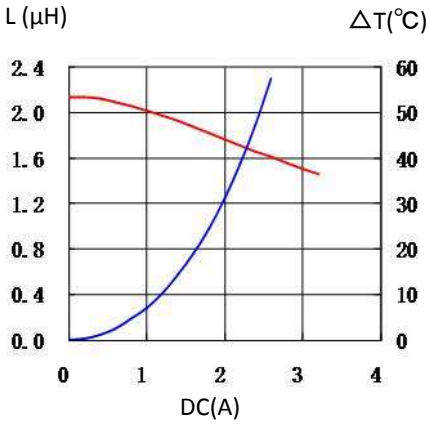
1. 252012CDMCCDS-R47MC



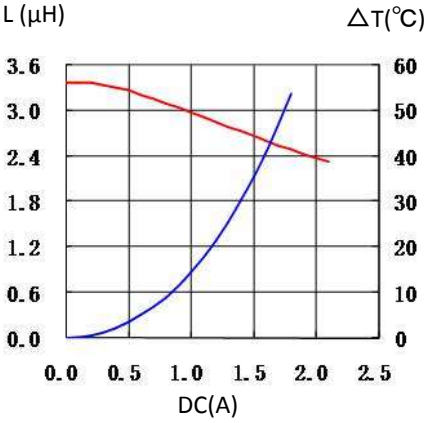

2. 252012CDMCCDS-1R0MC



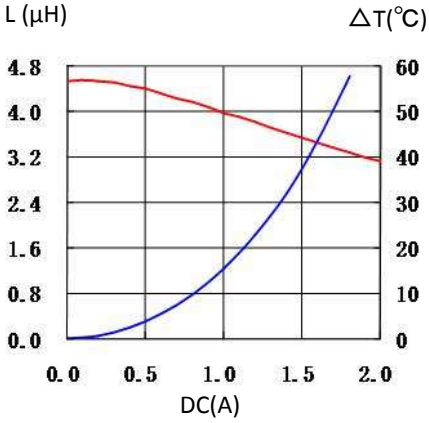

3. 252012CDMCCDS-2R2MC




4. 252012CDMCCDS-3R3MC




5. 252012CDMCCDS-4R7MC

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