

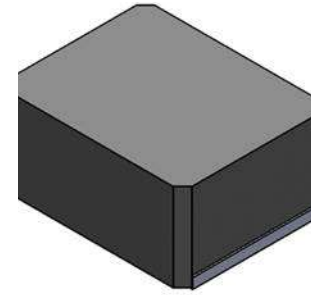
# SMD Power Inductor

## 252012CDMCD/DS



### 特点

- 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: 0.38mg (Ref.)
- Moisture Sensitivity Level: 1



### 环境规格

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

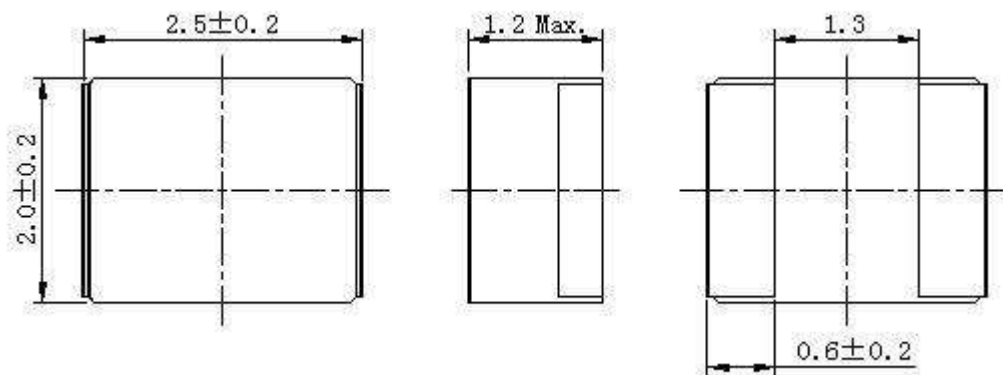
### 包装

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

### 用途

- 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

### 外形尺寸 - [mm]

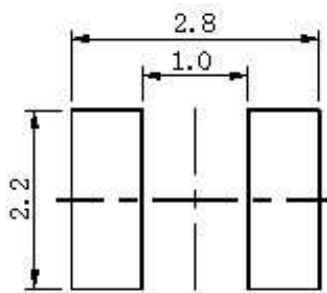


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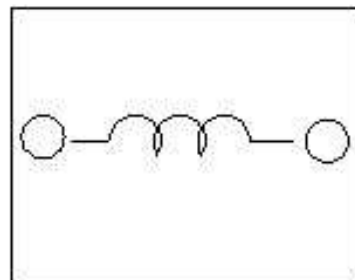
## 252012CDMCD/DS



推荐焊盘尺寸 - [mm]



接线图 (底面)





### 电气特性规格

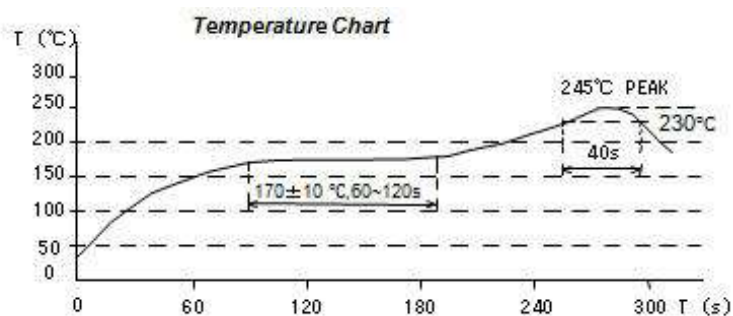
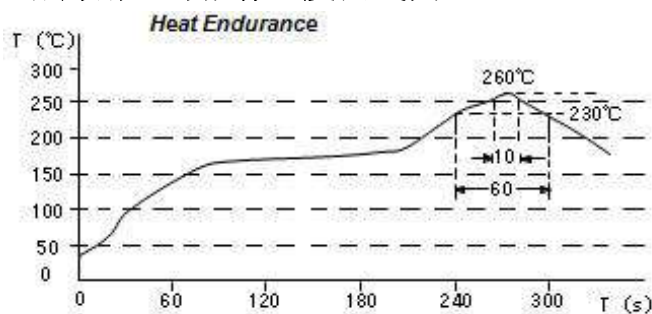
品名	电感值 [within] ( $\mu$ H) ※1	直流电阻 (20°C) max (typ) (m $\Omega$ )	直流饱和电流 (20°C) (A) ※2	温度上升电流 (A) ※3
252012CDMCDDS-R47MC	0.47 $\pm$ 20%	21.00 (17.00)	7.30	6.10
252012CDMCDDS-R68MC	0.68 $\pm$ 20%	30.00 (25.00)	6.30	5.50
252012CDMCDDS-1R0MC	1.00 $\pm$ 20%	42.00 (35.00)	5.40	4.20
252012CDMCDDS-1R5MC	1.50 $\pm$ 20%	61.00 (53.00)	3.60	3.60
252012CDMCDDS-2R2MC	2.20 $\pm$ 20%	82.00 (68.00)	3.30	3.00

※1 Measuring frequency Inductance at 1MHz, 0.1V

※2 Saturation current: This indicates the 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 $\mu\text{m}$ , four-layer PWB t=1.6mm)

### 回流焊耐热与推荐温度曲线图



# SMD Power Inductor

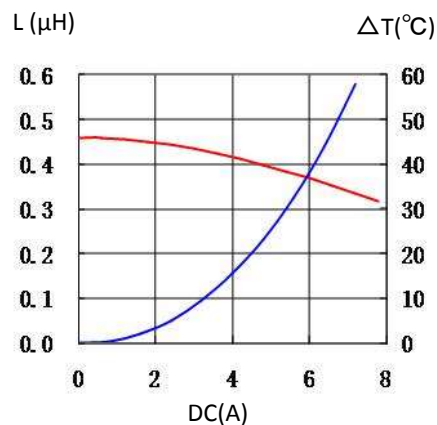
## 252012CDMCD/DS



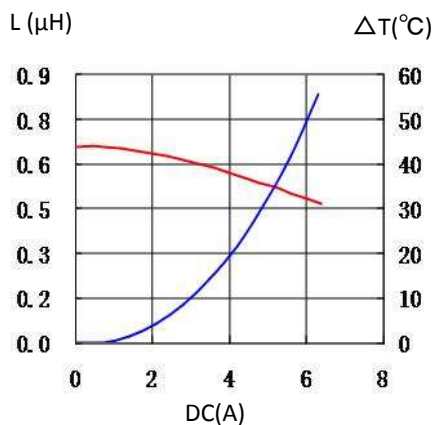
### 直流饱和电流&温度上升曲线图

— L (20°C) —  $\Delta T$

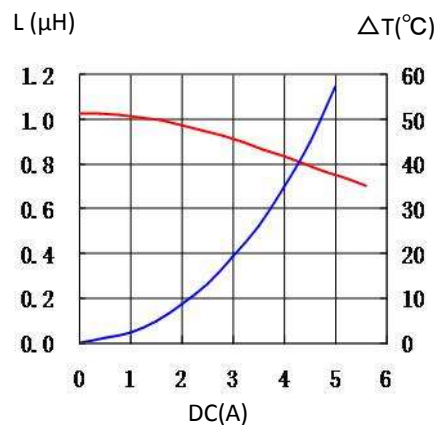
1. 252012CDMCDDS-R47MC



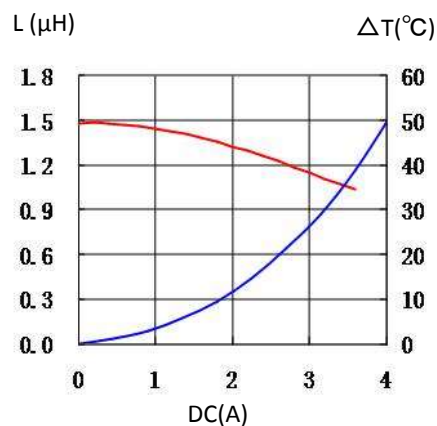
2. 252012CDMCDDS-R68MC



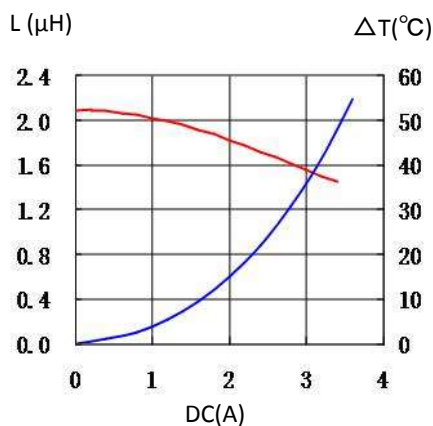
3. 252012CDMCDDS-1R0MC



4. 252012CDMCDDS-1R5MC



5. 252012CDMCDDS-2R2MC



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