

# SMD Power Inductor

## CD4012MB/DS



### 特性

- Ferrite core construction
- Low profile resin-shielded
- L × W × H: 4.2 × 4.2 × 1.2mm Max.
- Product weight: 0.068g(Ref.)
- Moisture Sensitivity Level: 1



### 環境データ

- Operating temperature range: -40°C~+105°C (including coil's self temperature rise)
- Storage temperature range: -40°C~+105°C

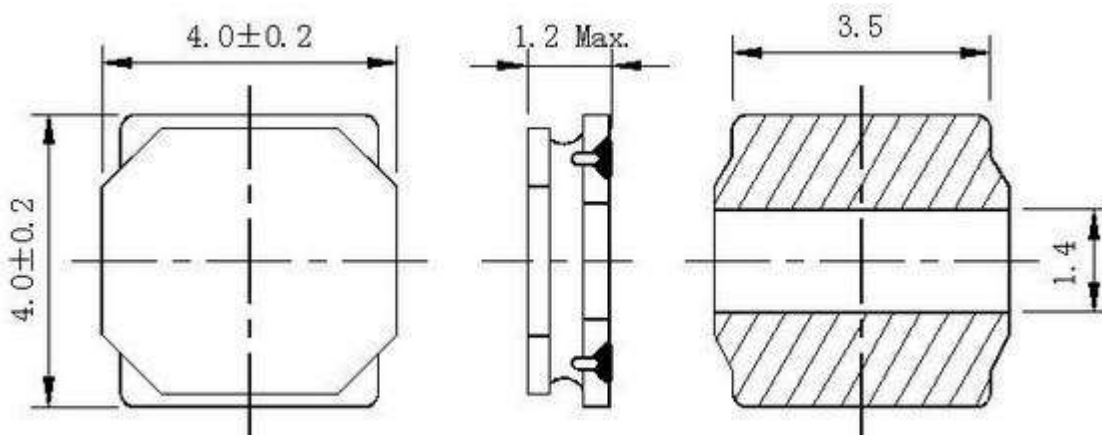
### 梱包

- Carrier tape and reel packaging
- 1000pcs per reel

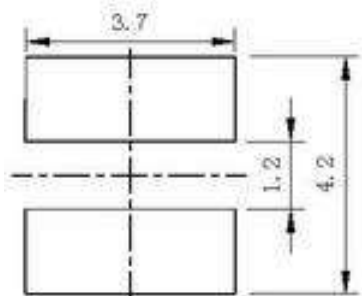
### 用途

- DC/DC converter for CPU in notebook PC, smartphones, LCD displays, HDDs, DVDs, SSDs, DVCs, DSCs, PDAs etc.

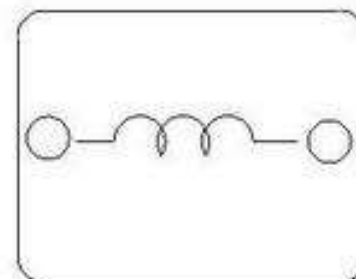
### 外形寸法 - [mm]



### 推奨ランド寸法 - [mm]



### 結線図





### 電気的特性

品名	インダクタンス範囲 ( $\mu$ H) ※1	D.C.R. (m $\Omega$ ) 20°C Max.(Typ.)	直流重畳電流 (A) Max.(Typ.) ※2	温度上昇電流 (A) Max.(Typ.) ※3
CD4012MBDS-1R0NC	1.00 $\pm$ 30%	72.00 (60.00)	2.60 (3.00)	(2.00)
CD4012MBDS-2R2PC	2.20 $\pm$ 25%	102 (85.00)	2.00 (2.30)	(1.80)
CD4012MBDS-3R3PC	3.30 $\pm$ 25%	138 (115)	1.60 (1.80)	(1.60)
CD4012MBDS-4R7PC	4.70 $\pm$ 25%	206 (172)	1.40 (1.60)	(1.30)
CD4012MBDS-6R8PC	6.80 $\pm$ 25%	256 (213)	1.20 (1.40)	(1.10)
CD4012MBDS-100MC	10.00 $\pm$ 20%	353 (294)	0.95 (1.10)	(1.00)
CD4012MBDS-150MC	15.00 $\pm$ 20%	586 (488)	0.78 (0.91)	(0.70)
CD4012MBDS-220MC	22.00 $\pm$ 20%	880 (733)	0.65 (0.76)	(0.64)

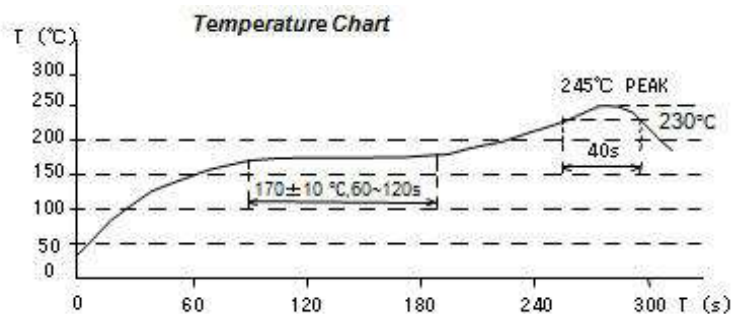
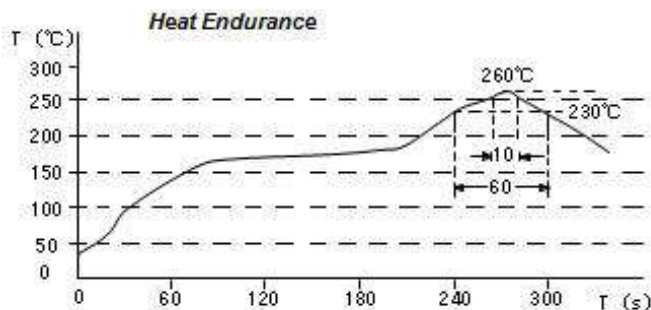
※1 Measuring frequency inductance at 100kHz 1V.

※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

$\Delta T=40^\circ\text{C}$  ( $T_a=25^\circ\text{C}$ ).

### はんだリフロー条件



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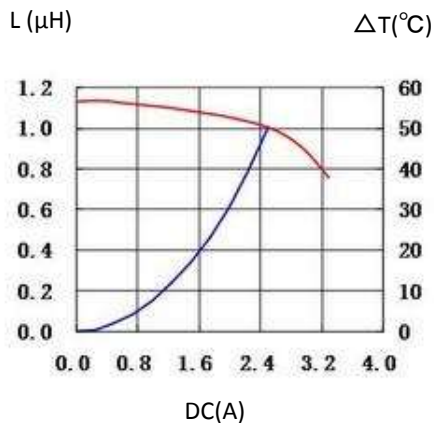
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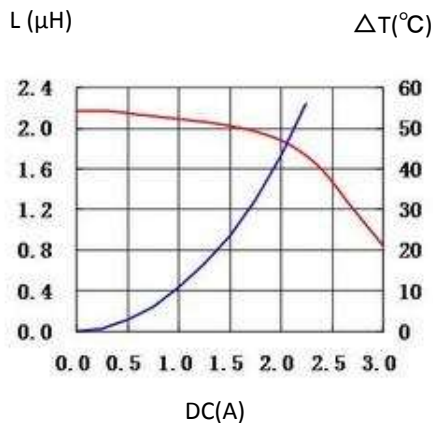
### 直流重畳電流・温度上昇電流グラフ

— L (20°C) — ΔT

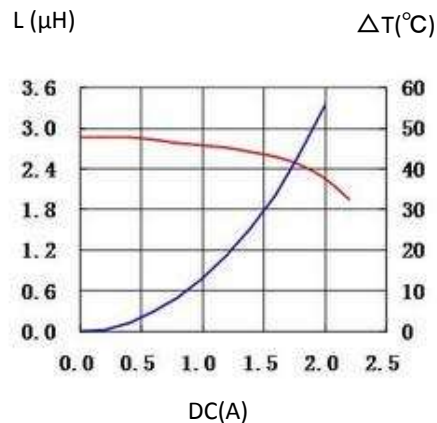
1. CD4012MBDS-1R0NC



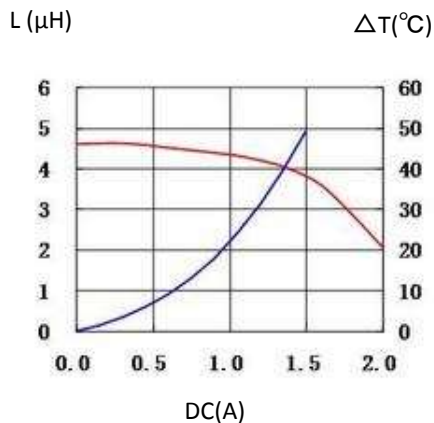
2. CD4012MBDS-2R2PC



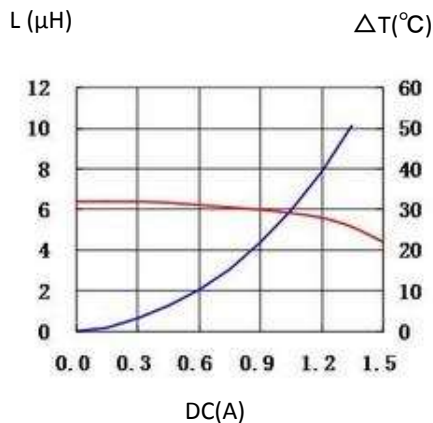
3. CD4012MBDS-3R3PC



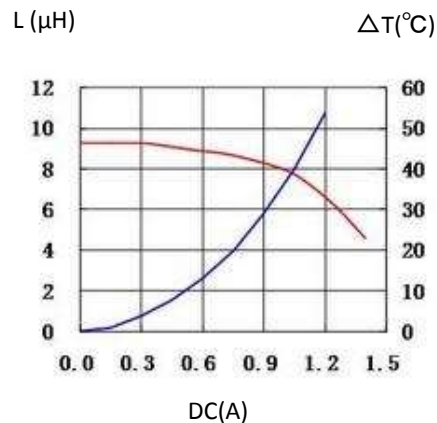
4. CD4012MBDS-4R7PC



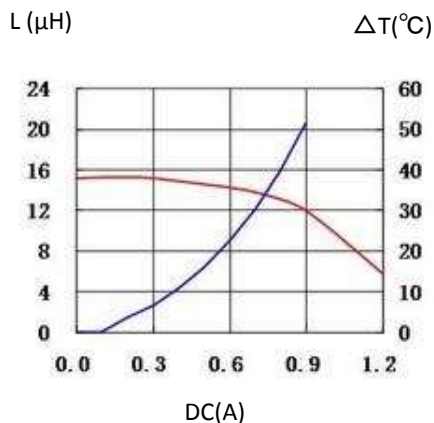
5. CD4012MBDS-6R8PC



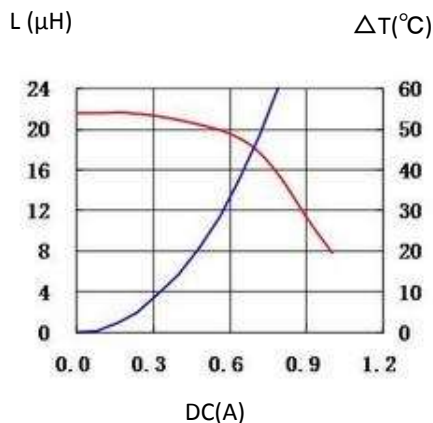
6. CD4012MBDS-100MC



7. CD4012MBDS-150MC



8. CD4012MBDS-220MC



備考: 本仕様書は、製品の改善等により記載内容を予告なく変更することがありますのでご了承ください。また、ご注文の際のお問い合わせは、最寄りの地域営業へご連絡ください。

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営業所情報のために、当社のウェブサイトを訪問する [ここをクリック](#) してください。