

# SMD Power Inductor

## CD5040MB/DS



### 特点

- Ferrite core construction
- Low profile resin-shielded
- L×W×H: 5.2×5.2×4.0mm Max.
- Product weight: 0.355g(Ref.)
- Moisture Sensitivity Level: 1



### 环境规格

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

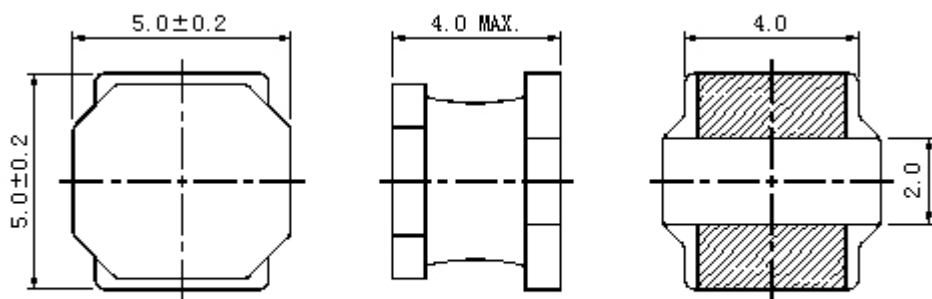
### 包装

- Carrier tape and reel packaging
- 1500pcs per reel

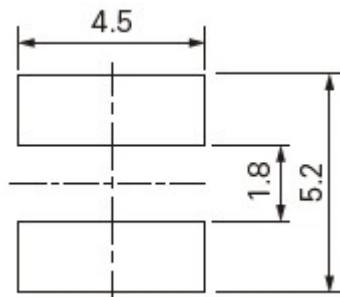
### 用途

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

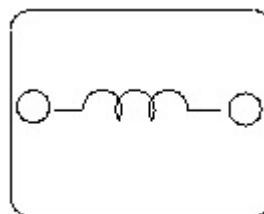
### 外形尺寸 - [mm]



### 推荐焊盘尺寸 - [mm]



### 接线图 (底面)



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### 电气特性规格

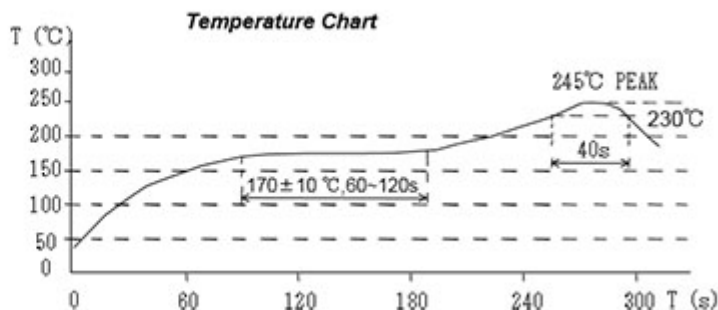
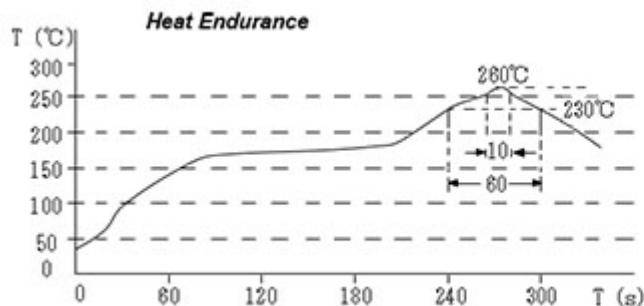
品名	电感值 [within] ( $\mu$ H) ※1	直流电阻 (20℃) Max. (Typ.) (m $\Omega$ )	饱和电流 (A) Max. (Typ.) ※2	温度上升电流 (A) Max. (Typ.) ※3
CD5040MBDS-2R2NC	2.20 $\pm$ 30%	23.00 (19.00)	5.40 (6.40)	(4.00)
CD5040MBDS-3R3NC	3.30 $\pm$ 30%	33.00 (27.00)	4.00 (4.70)	(3.40)
CD5040MBDS-4R7NC	4.70 $\pm$ 30%	40.00 (33.00)	3.50 (4.10)	(3.10)
CD5040MBDS-6R8NC	6.80 $\pm$ 30%	60.00 (50.00)	2.90 (3.50)	(2.80)
CD5040MBDS-100MC	10.00 $\pm$ 20%	90.00 (75.00)	2.30 (2.70)	(2.20)
CD5040MBDS-150MC	15.00 $\pm$ 20%	115 (96.00)	2.10 (2.40)	(2.00)
CD5040MBDS-220MC	22.00 $\pm$ 20%	160 (134)	1.60 (1.90)	(1.60)
CD5040MBDS-330MC	33.00 $\pm$ 20%	240 (200)	1.50 (1.80)	(1.30)
CD5040MBDS-470MC	47.00 $\pm$ 20%	336 (280)	1.10 (1.30)	(1.00)
CD5040MBDS-101MC	100 $\pm$ 20%	804 (670)	0.78 (0.92)	(0.65)
CD5040MBDS-181MC	180 $\pm$ 20%	1320 (1100)	0.58 (0.68)	(0.52)

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

### 回流焊耐热与推荐温度曲线图



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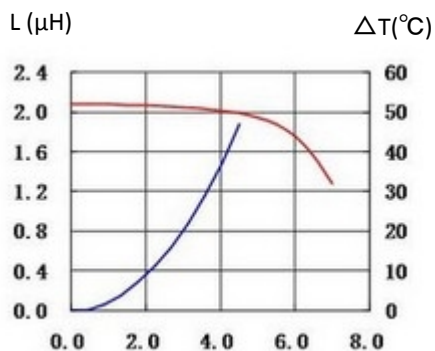
## CD5040MB/DS



### 直流饱和电流&温度上升曲线图

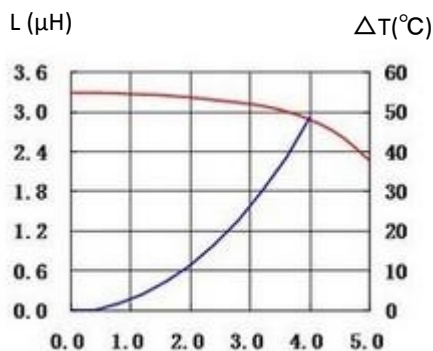
— L (20°C)    —  $\Delta T$

1. CD5040MBDS-2R2NC



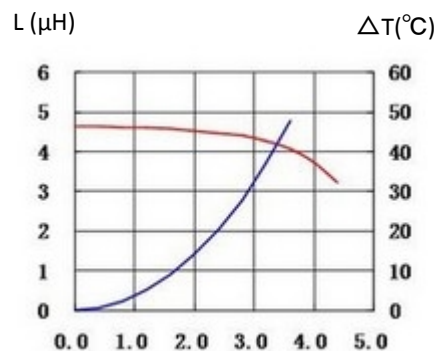
DC(A)

2. CD5040MBDS-3R3NC



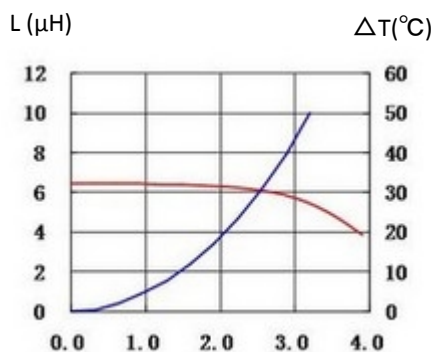
DC(A)

3. CD5040MBDS-4R7NC



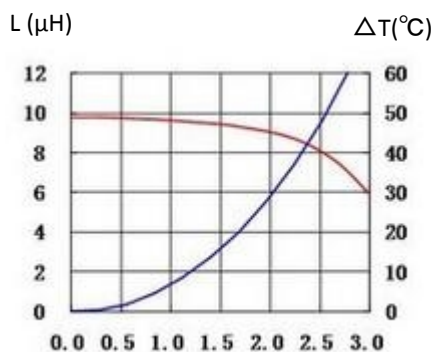
DC(A)

4. CD5040MBDS-6R8NC



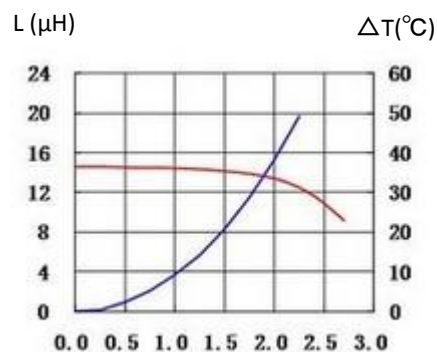
DC(A)

5. CD5040MBDS-100MC



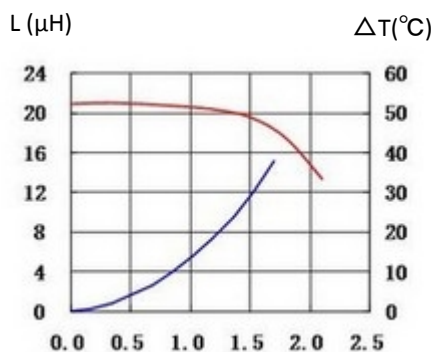
DC(A)

6. CD5040MBDS-150MC



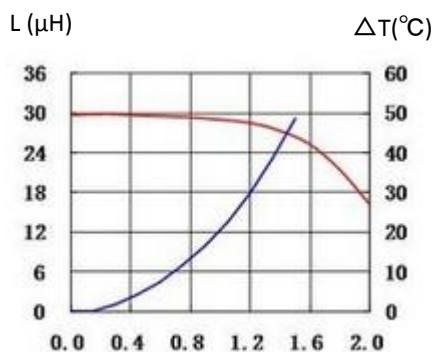
DC(A)

7. CD5040MBDS-220MC



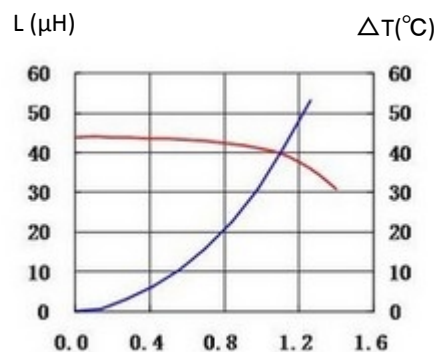
DC(A)

8. CD5040MBDS-330MC



DC(A)

9. CD5040MBDS-470MC



DC(A)

注：记载内容如有变更，恕不另行通知。订货时请联系您最近的销售办事处以获取最新产品信息。

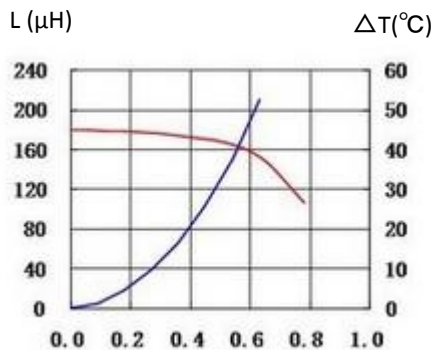
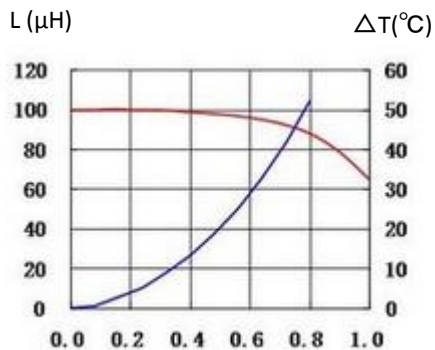
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### 10. CD5040MBDS-101MC

### 11. CD5040MBDS-181MC



DC(A)

DC(A)



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