

# SMD Power Inductor

## CD201610ME/DS



### 特性

- Dust core construction
- Low profile Resin-shielded
- L × W × H: 2.2 × 1.8 × 1.0mm Max.
- Product weight: 0.02g(Ref.)
- Moisture Sensitivity Level: 1



### 環境データ

- Operating temperature range: -40°C ~ 125°C (Including coil self temperature rise)

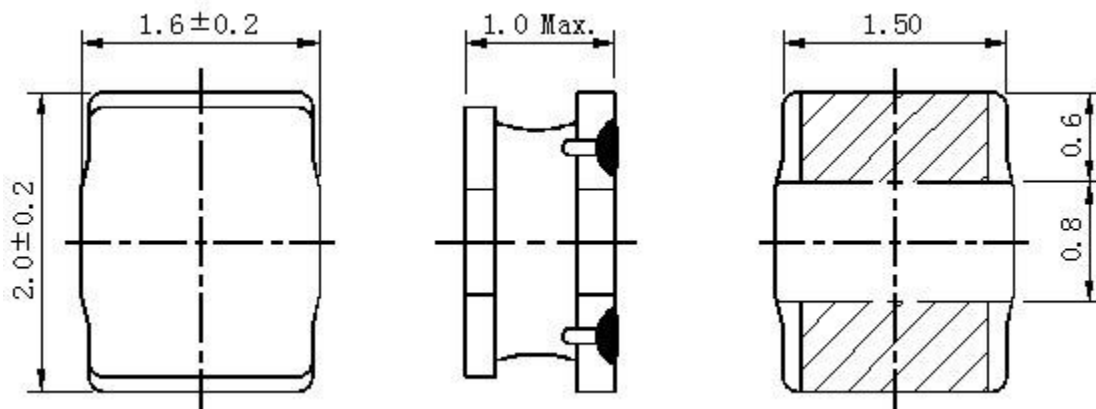
### 梱包

- Carrier tape and reel packaging
- 2000pcs per reel

### 用途

- Smartphone, notebooks, desktop computers, servers, blue-ray disc recorders, set top box, portable gaming devices, personal navigation systems, personal multimedia devices, high current POL converters, low profile, high current power supplies, battery powered devices, DC/DC converters in distributed power systems

### 外形寸法 - [mm]

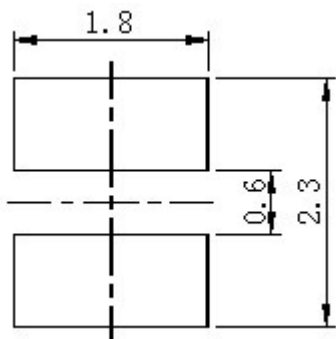


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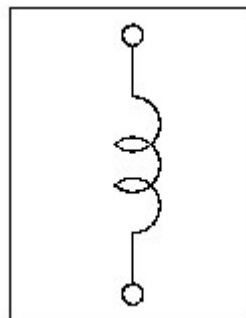
## CD201610ME/DS



### 推奨ランド寸法 - [mm]



### 結線図





## 電気的特性

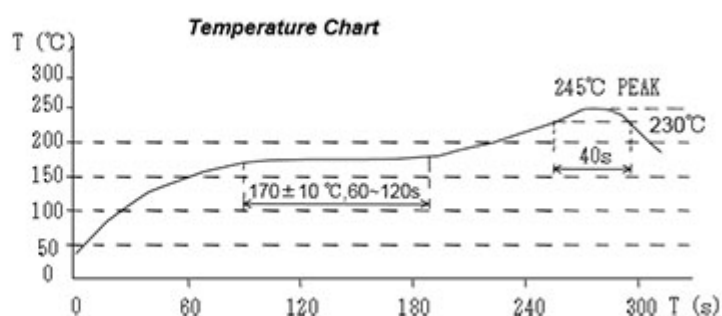
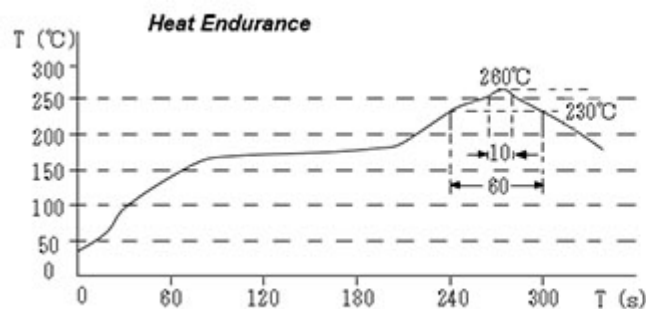
| 品名                 | インダクタンス範囲<br>( $\mu$ H) ※1 | D.C.R. (m $\Omega$ ) 20°C<br>Max.(Typ.) | 直流重畳電流 (A)<br>Max.(Typ.) ※2 | 温度上昇電流<br>(A) Max.(Typ.)<br>※3 |
|--------------------|----------------------------|-----------------------------------------|-----------------------------|--------------------------------|
| CD201610MEDS-R47NC | 0.47 $\pm$ 30%             | 56.20 (46.80)                           | 4.70 (5.50)                 | (2.50)                         |
| CD201610MEDS-R68NC | 0.68 $\pm$ 30%             | 66.60 (55.50)                           | 3.70 (4.40)                 | (2.30)                         |
| CD201610MEDS-1R0MC | 1.00 $\pm$ 20%             | 97.20 (81.00)                           | 3.40 (4.00)                 | (1.85)                         |
| CD201610MEDS-1R5MC | 1.50 $\pm$ 20%             | 132 (110)                               | 2.40 (2.80)                 | (1.55)                         |
| CD201610MEDS-2R2MC | 2.20 $\pm$ 20%             | 198 (165)                               | 2.00 (2.40)                 | (1.30)                         |
| CD201610MEDS-3R3MC | 3.30 $\pm$ 20%             | 318 (265)                               | 1.90 (2.20)                 | (0.97)                         |
| CD201610MEDS-4R7MC | 4.70 $\pm$ 20%             | 456 (380)                               | 1.40 (1.60)                 | (0.80)                         |
| CD201610MEDS-6R8MC | 6.80 $\pm$ 20%             | 570 (475)                               | 1.10 (1.30)                 | (0.70)                         |
| CD201610MEDS-100MC | 10.00 $\pm$ 20%            | 890 (740)                               | 0.85 (1.00)                 | (0.54)                         |

※1 Measuring frequency Inductance at 1MHz, 0.1V

※2 Saturation current: The actual value of DC current when the inductance is over 70% of the initial value.

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

## はんだリフロー条件



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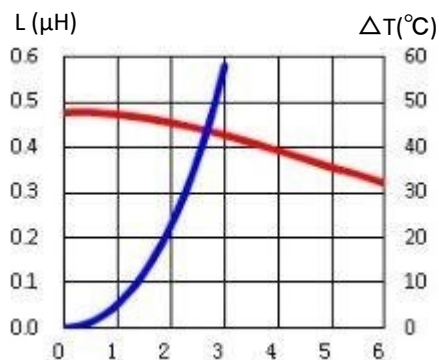


## 直流重畳電流・温度上昇電流グラフ

— L (20°C)

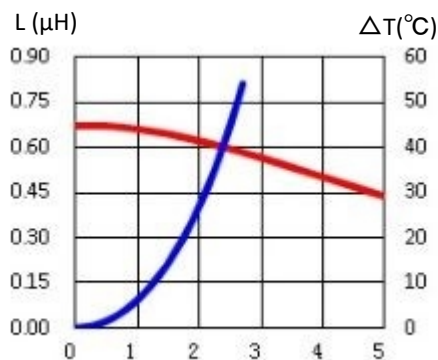
—  $\Delta T$

1. CD201610MEDS-R47NC



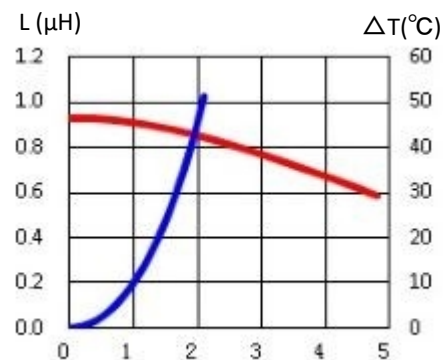
DC(A)

2. CD201610MEDS-R68NC



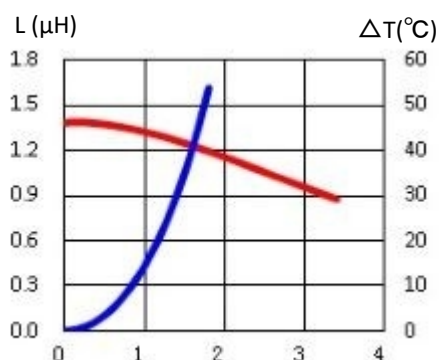
DC(A)

3. CD201610MEDS-1R0MC



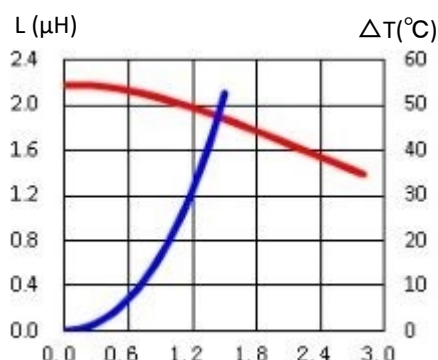
DC(A)

4. CD201610MEDS-1R5MC



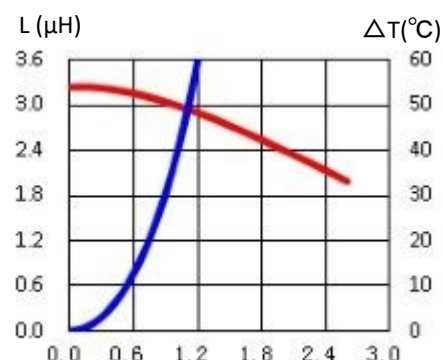
DC(A)

5. CD201610MEDS-2R2MC



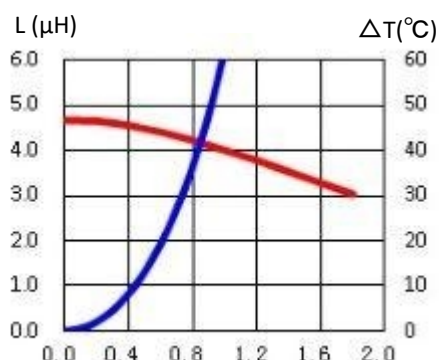
DC(A)

6. CD201610MEDS-3R3MC



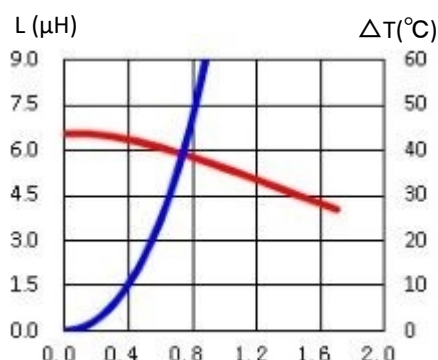
DC(A)

7. CD201610MEDS-4R7MC



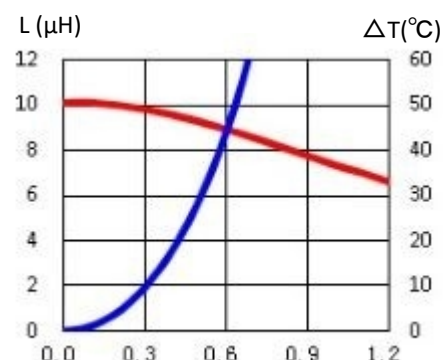
DC(A)

8. CD201610MEDS-6R8MC



DC(A)

9. CD201610MEDS-100MC



DC(A)

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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注目の製品



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。