

# SMD Power Inductor

## CDMT40D40



 **sumida**



Recommended Type

### Description

- Metal compound molding type construction
- Magnetically shielded
- Suitable for large current
- LxWxH:4.3x4.3x4.1mm Max.
- Product weight: 0.38g (Ref.)
- Moisture Sensitivity Level: 1



### Environmental Data

- Storage temperature range: -40°C ~ +125°C
- Operating temperature range: -40°C ~ +125°C (Not including coil's temperature rise)

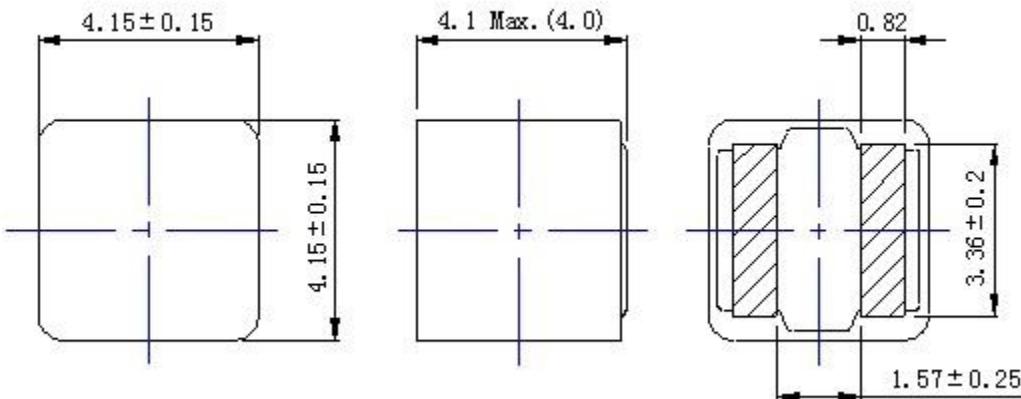
### Packaging

- Carrier tape and reel packaging
- 1500pcs per reel

### Applications

- Qualified consumer-level applications (ideally used in tablet PC, LCD display, Server application)
- HDD, SSD modules application
- High current, POL converters
- Low profile, high current power supplies
- Battery powered devices
- DC/DC converters in distributed power systems

### Dimension - [mm]



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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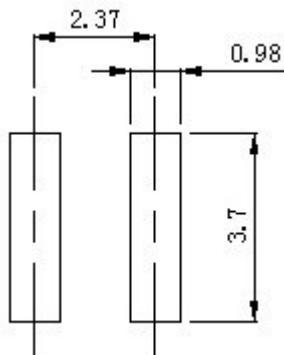
CDMT40D40



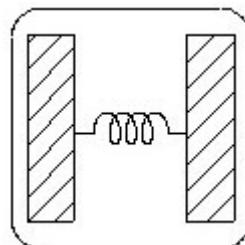
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## Recommended Land pattern - [mm]



## Wire Connection



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### Electrical Characteristics

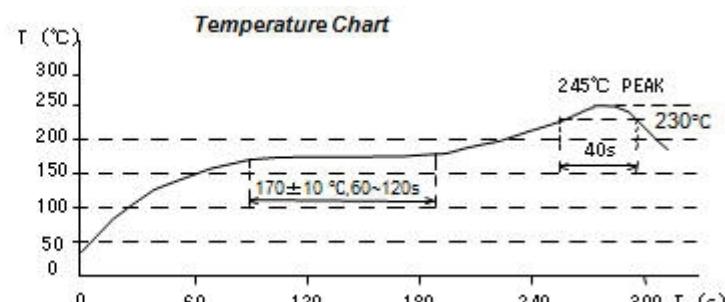
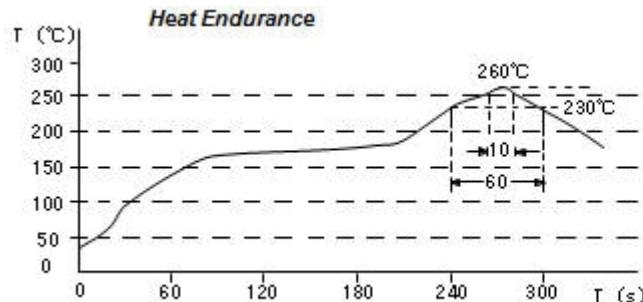
| Part Number       | Inductance<br>[Within]<br>( $\mu$ H) $\ddot{\times} 1$ | D.C.R. at 20°C<br>Max.(Typ.) (m $\Omega$ ) | Saturation Current<br>(A) Max.(Typ.) $\ddot{\times} 2$ | Temperature<br>Rise Current<br>(A) Max.(Typ.)<br>$\ddot{\times} 3$ |
|-------------------|--|--|--|--|
| CDMT40D40HF-8R2NC | 8.20 $\pm$ 30%   | 60.60 (55.10)                              | (3.50)   | (2.90)   |
| CDMT40D40HF-100NC | 10.00 $\pm$ 30%  | 88.00 (80.00)                              | (2.80)   | (2.30)   |
| CDMT40D40HF-150NC | 15.00 $\pm$ 30%  | 118 (107)                                  | (2.50)   | (1.95)   |

$\ddot{\times} 1$  Measuring frequency at 100 kHz, 0.1V

$\ddot{\times} 2$  Saturation current: This indicates the actual value of D.C. current when the inductance becomes 30% lower than its initial value.

$\ddot{\times} 3$  Temperature rise current: The actual value of D.C. current when the temperature of coil becomes  $\Delta T=40^{\circ}\text{C}$  ( $T_a=20^{\circ}\text{C}$ ).

### Solder Reflow Condition



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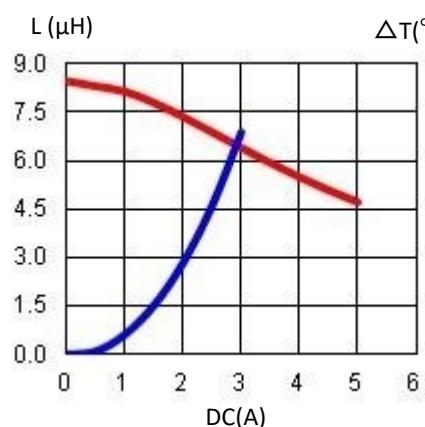
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### Saturation Current & Temperature Rise Graph

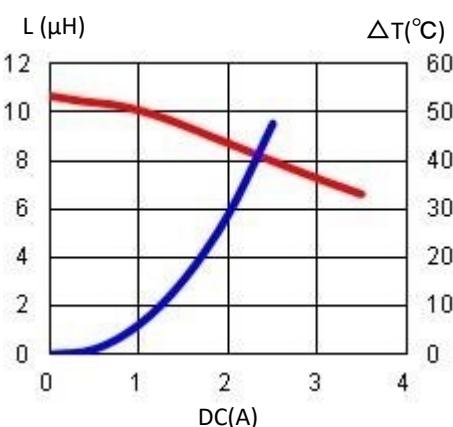
 L (20°C)

1. CDMT40D40HF-8R2NC

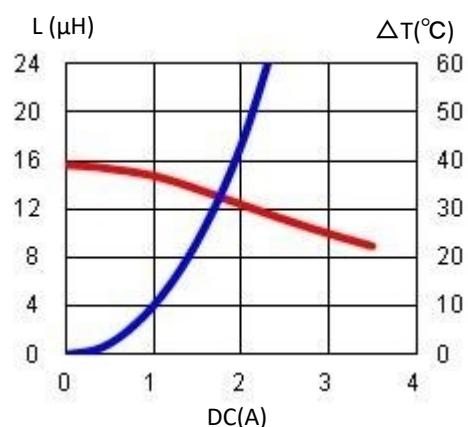


 ΔT

2. CDMT40D40HF-100NC



3. CDMT40D40HF-150NC



For sales office information, please [click here](#) to visit our website.