

SMD Power Inductor

CDMT40D40



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)

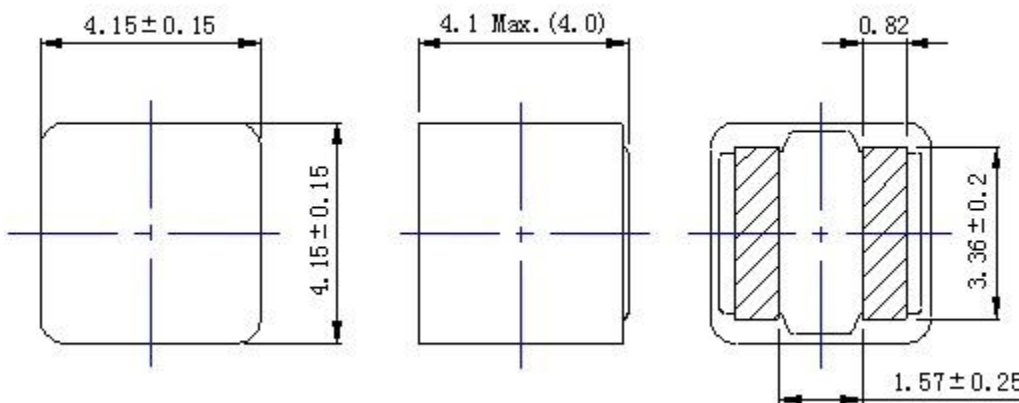
Packaging

- 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]



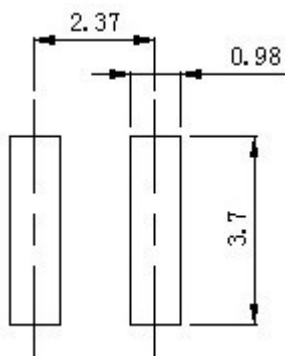
Note: This specification is subject to change without notice. Please contact your nearest sales office for updated information when placing an order.

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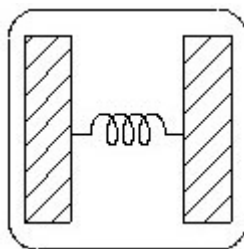
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Recommended Land pattern - [mm]



Wire Connection



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Electrical Characteristics

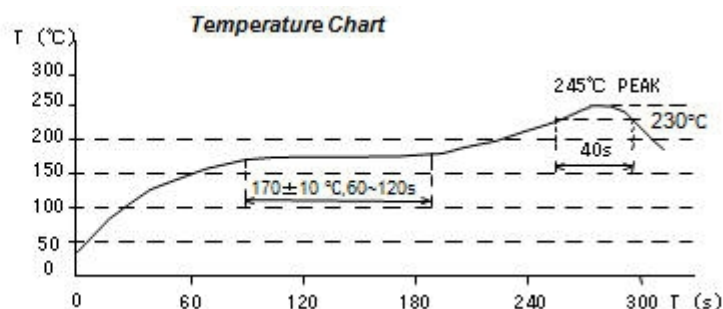
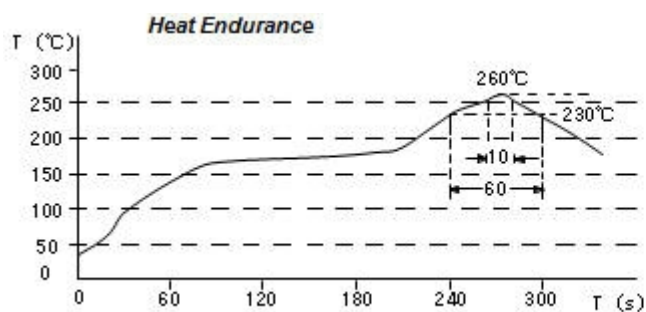
Part Number	Inductance [Within] (μ H) ※1	D.C.R. at 20°C Max.(Typ.) (m Ω)	Saturation Current (A) Max.(Typ.) ※2	Temperature Rise Current (A) Max.(Typ.) ※3
CDMT40D40HF-8R2NC	8.20 \pm 30%	60.60 (55.10)	(3.50)	(2.90)
CDMT40D40HF-100NC	10.00 \pm 30%	88.00 (80.00)	(2.80)	(2.30)
CDMT40D40HF-150NC	15.00 \pm 30%	118 (107)	(2.50)	(1.95)

※1 Measuring frequency at 100 kHz, 0.1V

※2 Saturation current: This indicates the actual 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 $\Delta T=40^{\circ}\text{C}$ ($T_a=20^{\circ}\text{C}$).

Solder Reflow Condition



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Saturation Current & Temperature Rise Graph

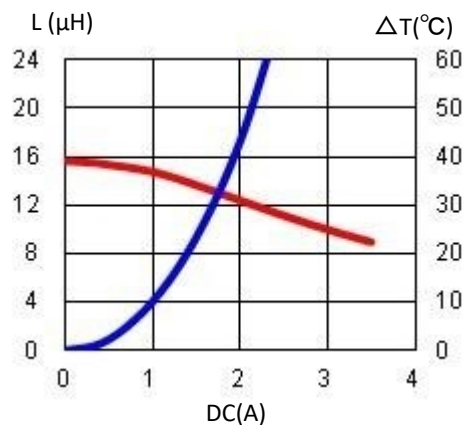
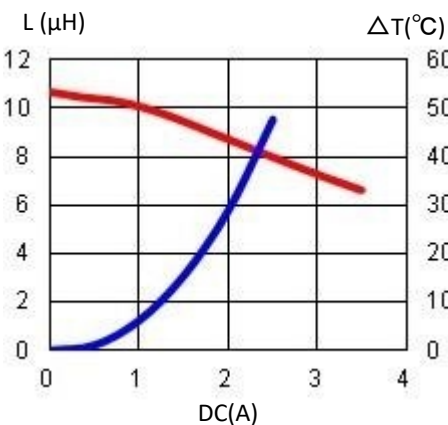
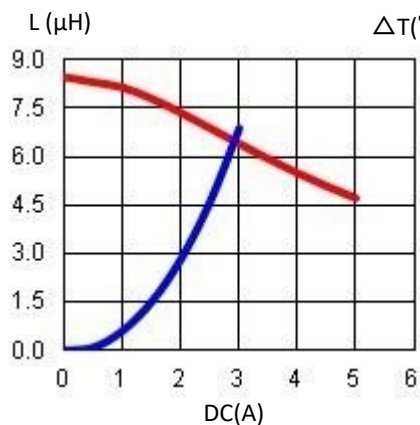
— L (20°C)

— ΔT

1. CDMT40D40HF-8R2NC

2. CDMT40D40HF-100NC

3. CDMT40D40HF-150NC



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