

SMD Power Inductor

CDMT40D20



Description

- Metal compound molding type construction
- Magnetically shielded
- Suitable for large current
- L×W×H: 4.3×4.3×2.1mm Max.
- Product weight: 0.18g (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)

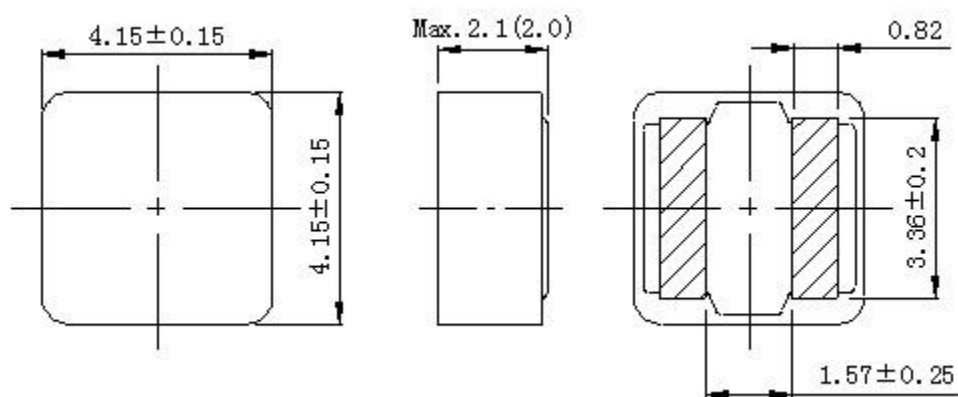
Packaging

- Carrier tape and reel packaging
- 3000pcs 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]



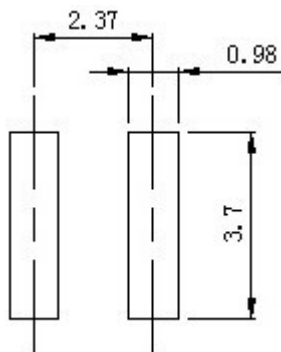
Note: This specification is subject to change without notice. Please contact your nearest sales office for updated information when placing an order.

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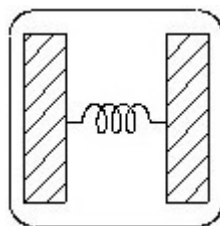
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Recommended Land pattern - [mm]



Wire Connection



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Electrical Characteristics

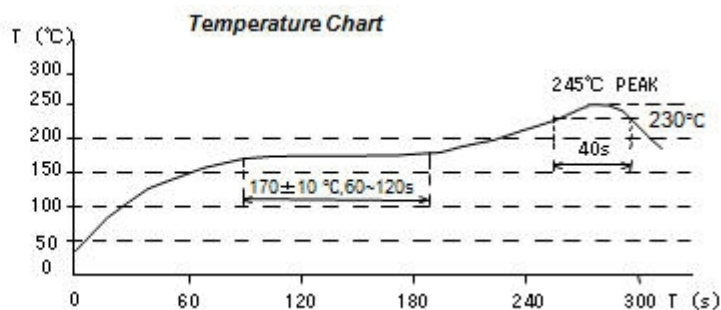
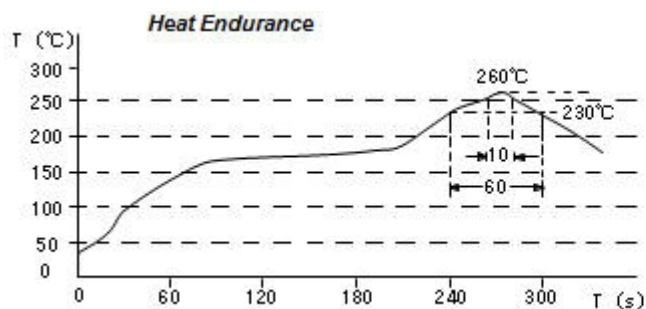
Part Number	Inductance [Within] (μ H) ※1	D.C.R. at 20°C Max.(Typ.) (m Ω)	Saturation Current (A) Max.(Typ.) ※2	Temperature Rise Current (A) Max.(Typ.) ※3
CDMT40D20HF-R27NC	0.27 $\pm$ 30%	6.40 (5.80)	(17.20)	(7.50)
CDMT40D20HF-R47NC	0.47 $\pm$ 30%	8.30 (7.50)	(12.50)	(6.80)
CDMT40D20HF-R63NC	0.63 $\pm$ 30%	10.30 (9.40)	(10.40)	(6.10)
CDMT40D20HF-1R0NC	1.00 $\pm$ 30%	14.50 (13.20)	(8.70)	(5.40)
CDMT40D20HF-1R5NC	1.50 $\pm$ 30%	21.50 (19.50)	(7.10)	(4.40)
CDMT40D20HF-2R2NC	2.20 $\pm$ 30%	30.80 (28.00)	(5.60)	(3.50)
CDMT40D20HF-3R3NC	3.30 $\pm$ 30%	46.20 (42.00)	(4.60)	(3.00)

※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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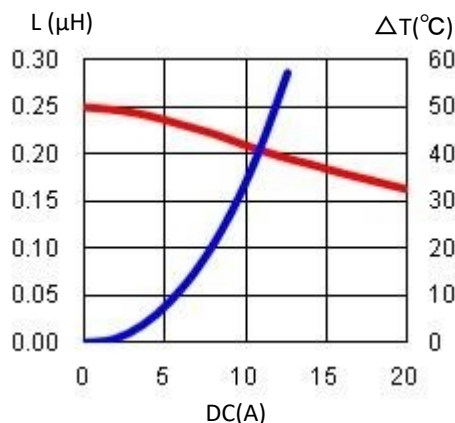


Saturation Current & Temperature Rise Graph

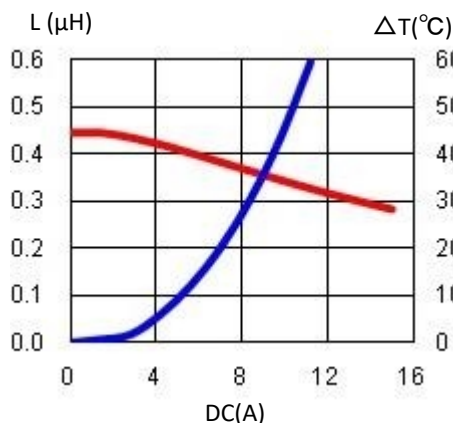
— L (20°C)

— ΔT

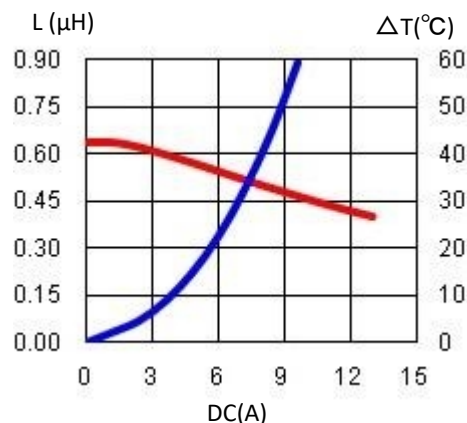
1. CDMT40D20HF-R27NC



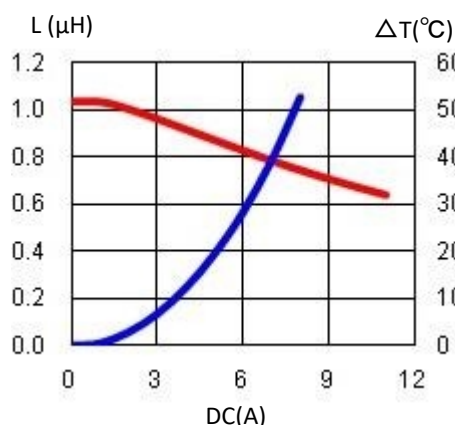
2. CDMT40D20HF-R47NC



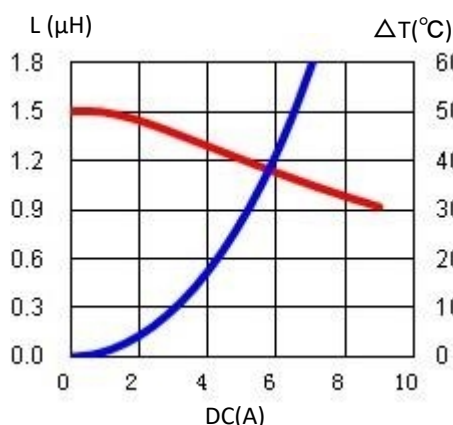
3. CDMT40D20HF-R63NC



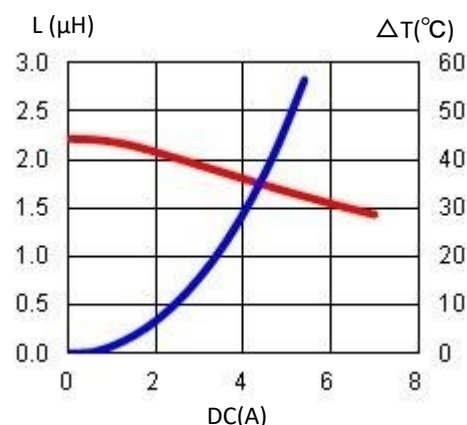
4. CDMT40D20HF-1R0NC



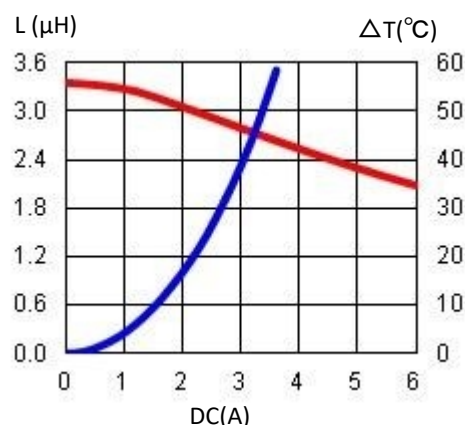
5. CDMT40D20HF-1R5NC



6. CDMT40D20HF-2R2NC



7. CDMT40D20HF-3R3NC



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