

SMD Power Inductor

CDB78D60



Description

- Ferrite core construction
- Magnetically shielded
- L×W×H:10.4×8.0×6.3mm Max.
- Product weight: 2.1g(Ref.)
- Moisture Sensitivity Level: 1



Environmental Data

- Operating temperature range: -40°C~+125°C (including coil's self temperature rise)
- Storage temperature range: -40°C~+105°C

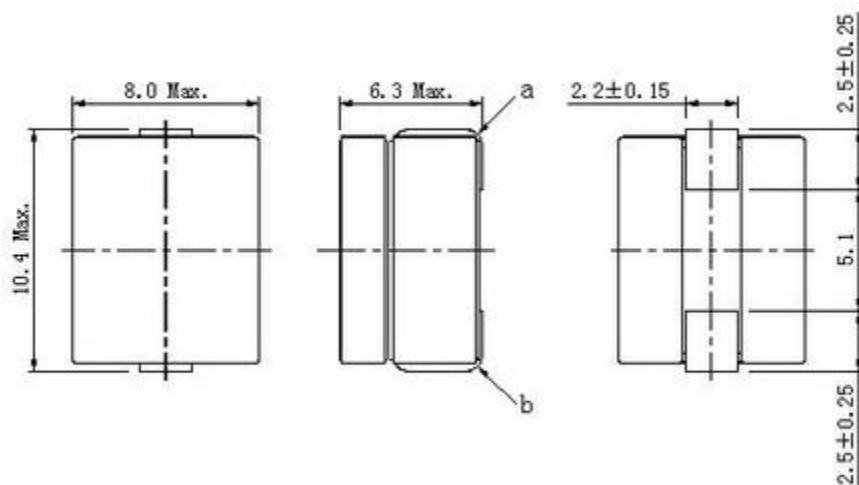
Packaging

- Carrier tape and reel packaging. 500pcs per reel.

Applications

- Multi-phase and Vcore regulators.
- Voltage Regulator Modules (VRMs). Such as Server and desktop, Central processing unit(CPU), Graphics processing unit (GPU), Application specific integrated circuit(ASIC), High power density.
- Data networking density.
- Graphics cards and battery power systems.

Dimension - [mm]

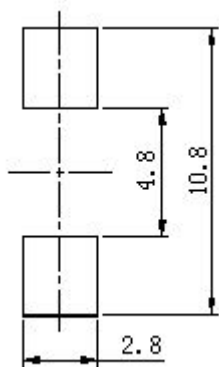


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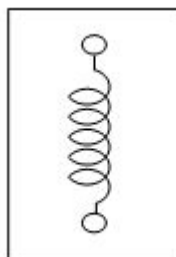
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Recommended Land pattern - [mm]



Wire Connection



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Electrical Characteristics

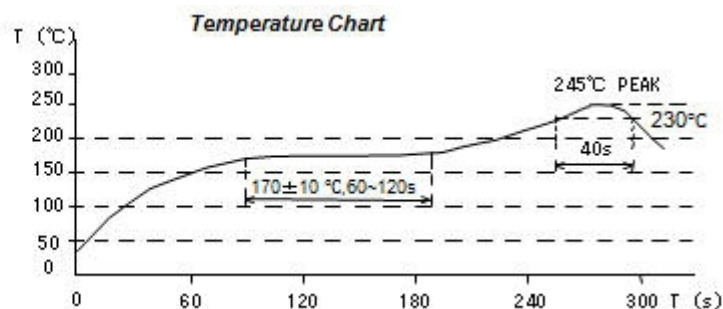
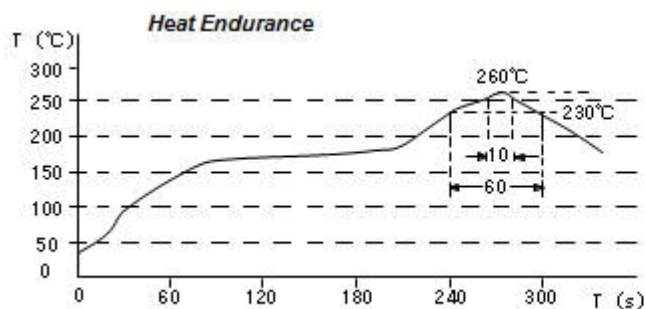
Part Number	Inductance [Within] (μ H) ※1	D.C.R. at 20°C [Within] (m Ω)	Saturation Current (A) Max.(Typ.) ※2	Temperature Rise Current (A) Max.(Typ.) ※3
CDB78D60NP-R19MC	0.19 $\pm$ 20%	0.28 $\pm$ 10%	37.00 (44.00)	(50.00)

※1 Measuring frequency Inductance at 1MHz.

※2 Saturation current: The actual value of D.C. current when inductance is above 80% of its initial value(at=20°C).

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

Solder Reflow Condition



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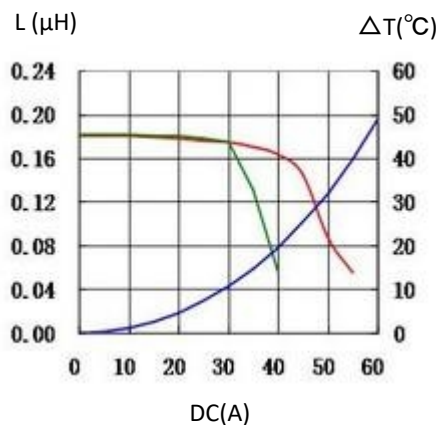
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Saturation Current & Temperature Rise Graph

— L (20°C) — L (125°C) — ΔT

1. CDB78D60NP-R19MC



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