

SMD Power Inductor

CDB68D62



Recommended Type

Description

- Ferrite core construction
- Magnetically shielded
- L×W×H: 8.8×7.1×6.5mm Max.
- Product weight: 1.7g(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~+125°C

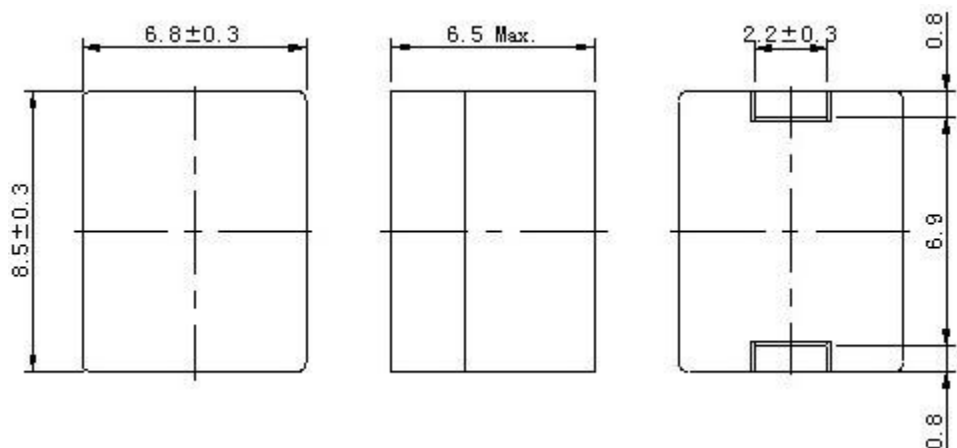
Packaging

- Carrier tape and reel packaging
- 800pcs 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]



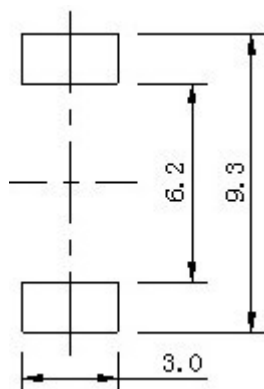
Note: This specification is subject to change without notice. Please contact your nearest sales office for updated information when placing an order.

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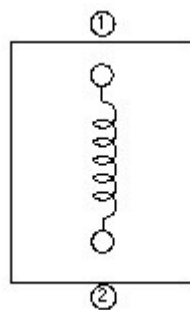
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Recommended Land pattern - [mm]



Wire Connection



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Electrical Characteristics

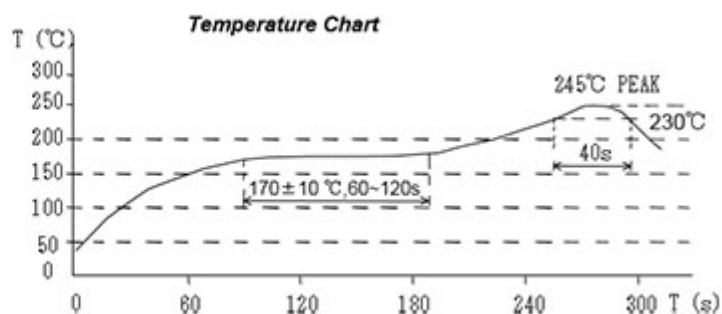
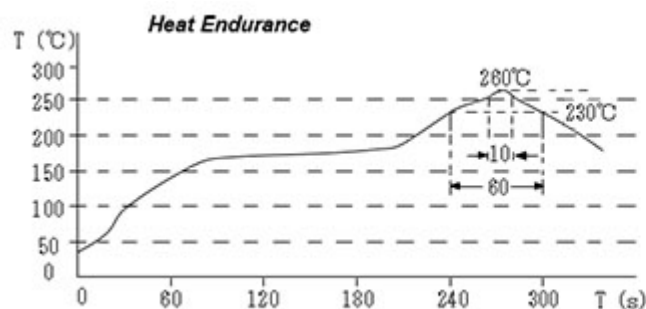
Part Number	Inductance [Within] (μ H) ※1	D.C.R. at 20°C Max.(Typ.) (m Ω)	Saturation Current (A) Max.(Typ.) ※2	Temperature Rise Current (A) Max.(Typ.) ※3
CDB68D62HF-R15MC	0.15 $\pm$ 20%	0.16 (0.145)	44.00 (55.00)	(70.00)
CDB68D62HF-R22MC	0.22 $\pm$ 20%	0.16 (0.145)	28.00 (35.00)	(70.00)
CDB68D62HF-R27MC	0.27 $\pm$ 20%	0.16 (0.145)	22.00 (28.00)	(70.00)
CDB68D62HF-R44PC	0.44 $\pm$ 25%	0.16 (0.145)	12.00 (16.00)	(70.00)

※1 Measuring frequency inductance at 1MHz,0.1V.

※2 Saturation current: This indicates the value of D.C. current when the inductance becomes 20% lower than its initial value.

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

Solder Reflow Condition



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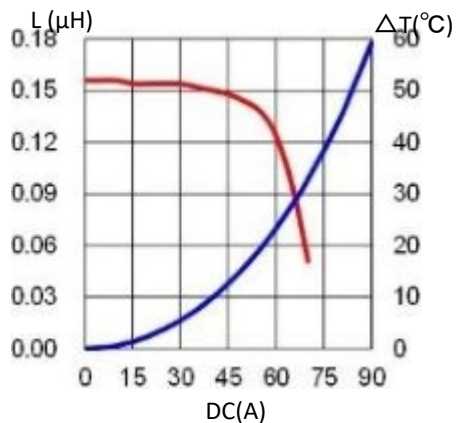


Saturation Current & Temperature Rise Graph

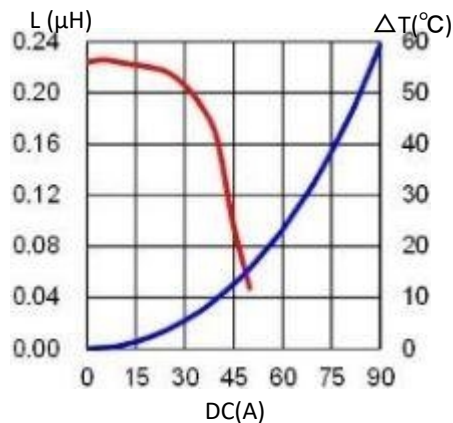
— L (20°C)

— ΔT

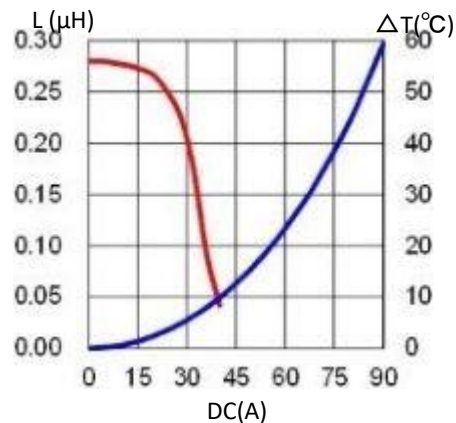
1. CDB68D62HF-R15MC



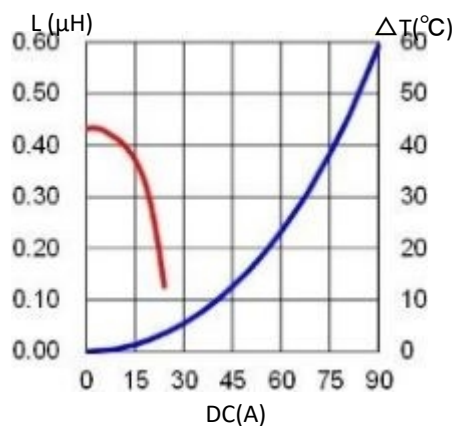
2. CDB68D62HF-R22MC



3. CDB68D62HF-R27MC



4. CDB68D62HF-R44PC



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