SMD Power Inductor

CDB64D48

Description

- Ferrite core construction.
- Magnetically shielded.
- L×W×H:7.2×6.6×5.0mm Max.
- Product weight: 1.1g(Ref.)
- Moisture Sensitivity Level: 1

Environmental Data

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

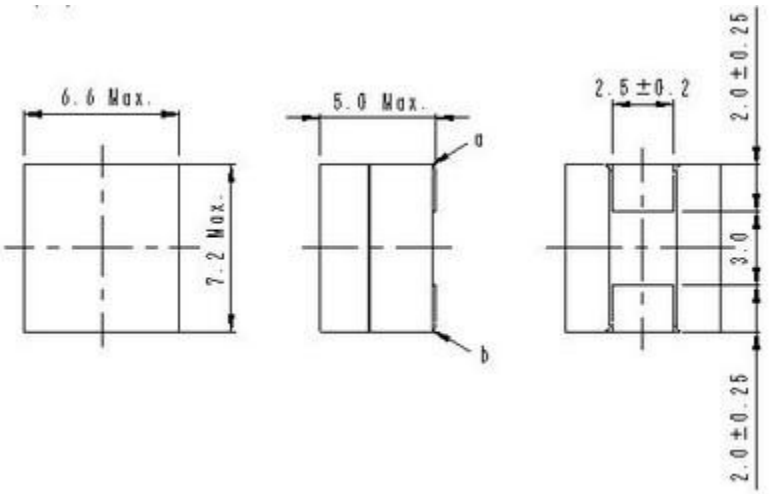
Packaging

- Carrier tape and reel packaging. 1000pcs per reel.

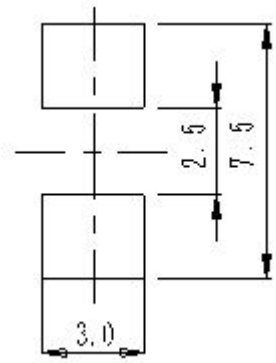
Applications

- 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.

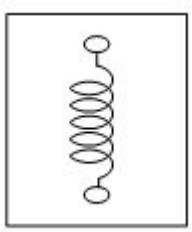
Dimension - [mm]



Recommended Land pattern - [mm]



Wire Connection



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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Electrical Characteristics

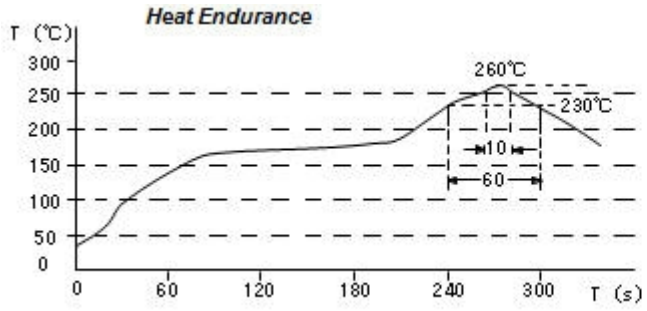
Part Number	Inductance [Within] (μH) ※1	D.C.R. at 20℃ Max.(Typ.) (mΩ)	Saturation Current (A) Max.(Typ.) ※2		Temperature Rise Current (A) Max.(Typ.) ※3
			20℃	125℃	
CDB64D48NP-R10MC	0.10 ± 20%	(0.25)	43.00 (54.00)	32.00 (39.00)	(43.00)
CDB64D48NP-R15MC	0.15 ± 20%	(0.25)	28.00 (34.00)	24.00 (28.00)	(43.00)

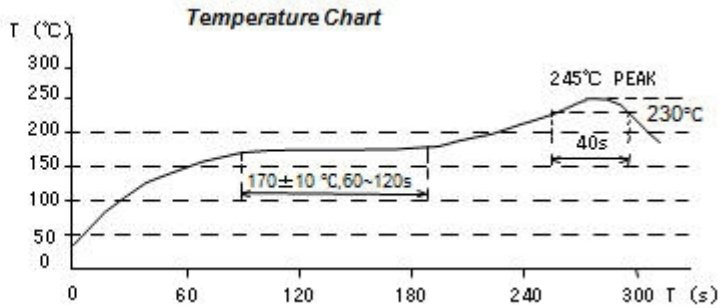
※1 Measuring frequency inductance at 1MHz.

※2 Saturation current: this indicates the actual value of D.C. current when the inductance becomes 20% lower than it's initial value.

※3 Temperature rise current: the actual value of D.C. current when temperature of coils becomes △T=40℃(Ta=20℃).

Solder Reflow Condition





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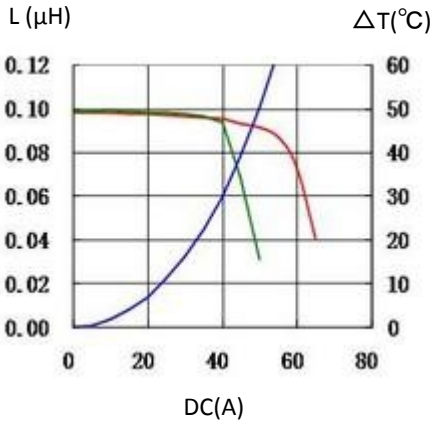
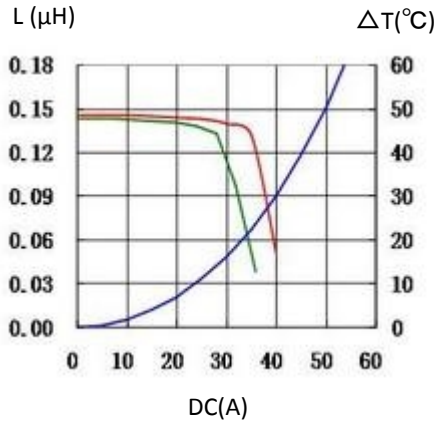
Saturation Current & Temperature Rise Graph

L (20°C) L (125°C) ΔT

1. CDB64D48NP-R10MC



2. CDB64D48NP-R15MC



For sales office information, please click here to visit our website.