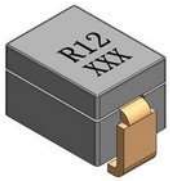
SMD Power Inductor

CDB80D92

Description

- Ferrite core construction.
- Magnetically shielded.
- L×W×H:12.8×8.3×9.4mm Max.
- Product weight: 3.4g(Ref.)
- Moisture Sensitivity Level: 1



Environmental Data

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

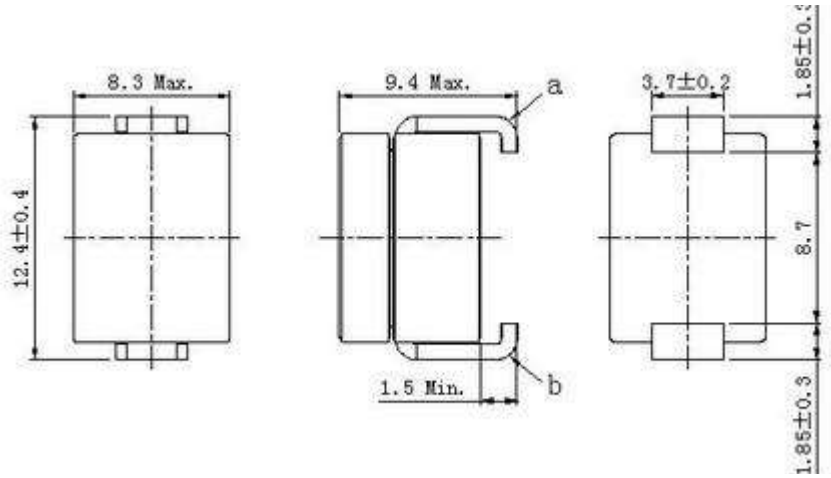
Packaging

- Carrier tape and reel packaging. 400pcs 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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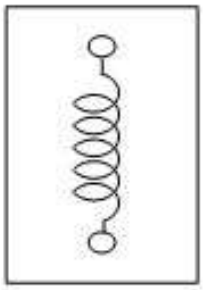
Recommended Land pattern - [mm]

Wire Connection



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Electrical Characteristics

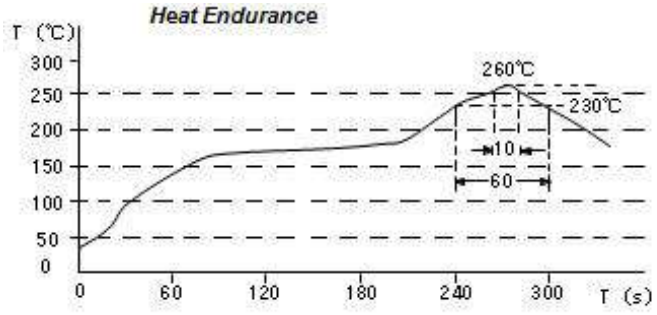
Part Number	Inductance [Within] (μH) ※1	D.C.R. at 20℃ [Within] (mΩ)	Saturation Current (A) ※2		Temperature Rise Current (A) ※3
			20℃	100℃	
CDB80D92NP-R12MC	0.12 ± 20%	0.162 ± 10%	95.00	88.00	71.00
CDB80D92NP-R15MC	0.15 ± 20%	0.162 ± 10%	82.00	67.00	71.00
CDB80D92NP-R22MC	0.22 ± 20%	0.162 ± 10%	54.00	45.00	71.00
CDB80D92NP-R30MC	0.30 ± 20%	0.162 ± 10%	39.00	33.00	71.00

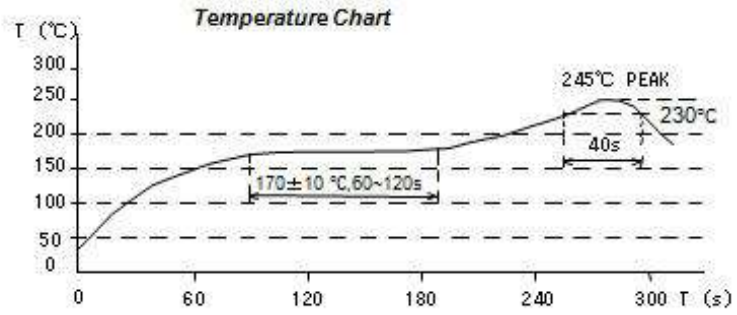
※1 Measuring frequency inductance at 1MHz.

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





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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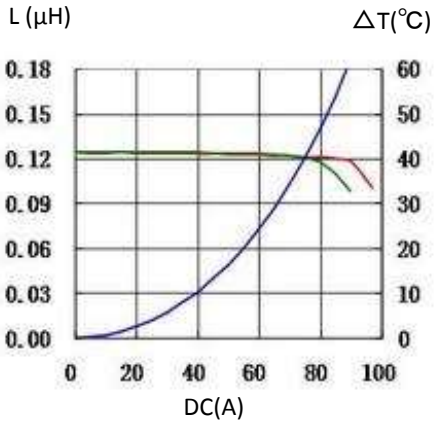
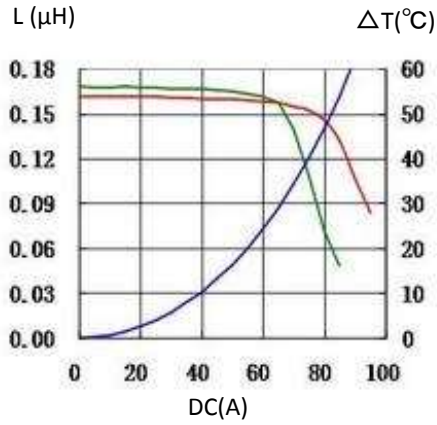
Saturation Current & Temperature Rise Graph

L (20°C) L (100°C) ΔT

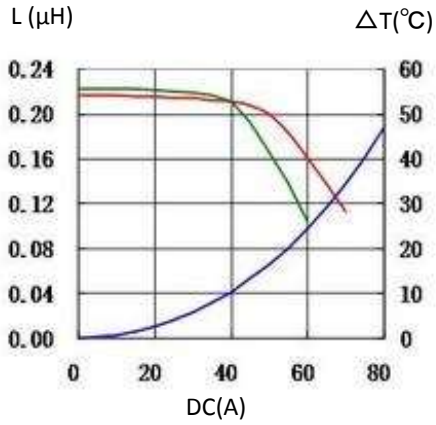
1. CDB80D92NP-R12MC



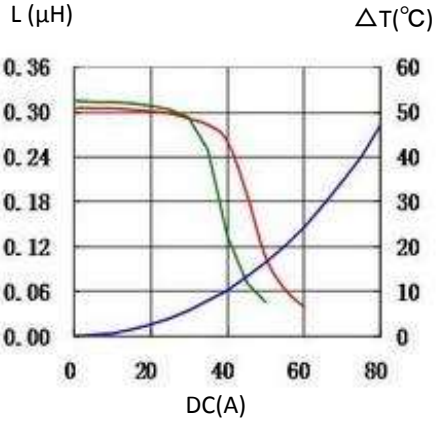
2. CDB80D92NP-R15MC



3. CDB80D92NP-R22MC



4. CDB80D92NP-R30MC



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