

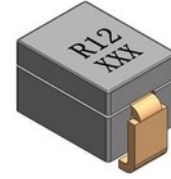
SMD Power Inductor

CDB80D92



Description

- Ferrite core construction.
- Magnetically shielded.
- LxWxH:12.8x8.3x9.4mm Max.
- Product weight: 3.4g(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

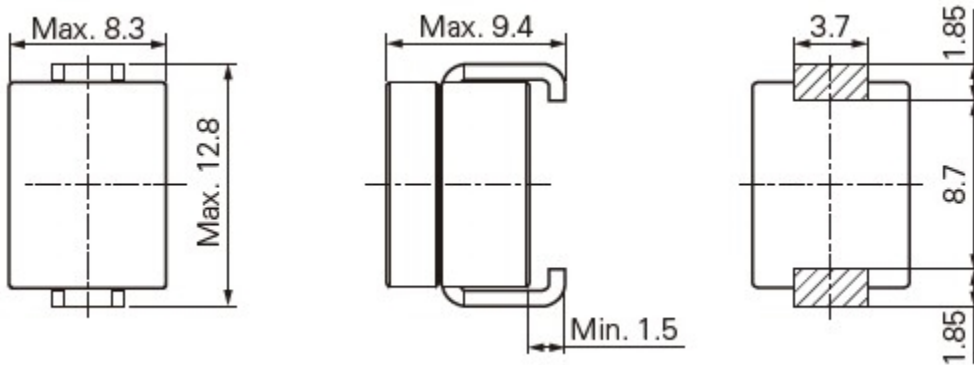
Packaging

- Carrier tape and reel packaging. 400pcs per reel.

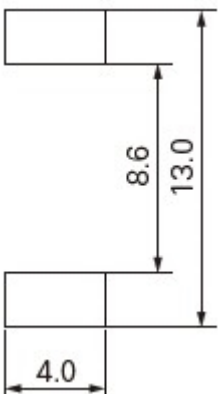
Applications

- 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.

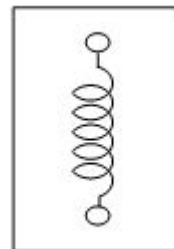
Dimension - [mm]



Recommended Land pattern - [mm]



Wire Connection



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Electrical Characteristics

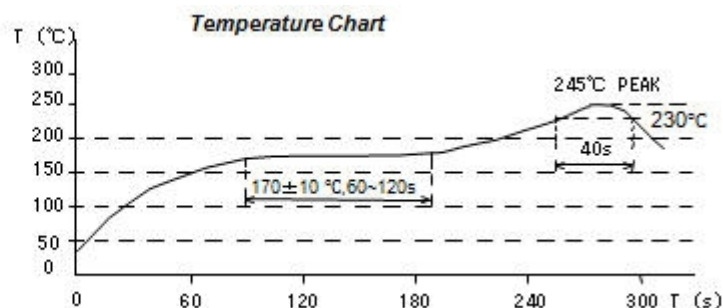
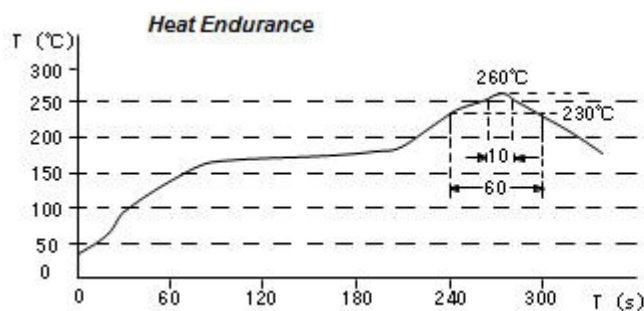
Part Number	Inductance [Within] (μ H) ※1	D.C.R. at 20°C Max.(Typ.) (m Ω)	Saturation Current (A) Max.(Typ.) ※2		Temperature Rise Current (A) Max.(Typ.) ※3
			20°C	100°C	
CDB80D92NP-R12MC	0.12 \pm 20%	(0.162)	81.00 (95.00)	75.00 (88.00)	(71.00)
CDB80D92NP-R15MC	0.15 \pm 20%	(0.162)	70.00 (82.00)	57.00 (67.00)	(71.00)
CDB80D92NP-R22MC	0.22 \pm 20%	(0.162)	46.00 (54.00)	38.00 (45.00)	(71.00)
CDB80D92NP-R30MC	0.30 \pm 20%	(0.162)	33.00 (39.00)	28.00 (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 $\Delta T=40^{\circ}\text{C}$ ($T_a=20^{\circ}\text{C}$).

Solder Reflow Condition



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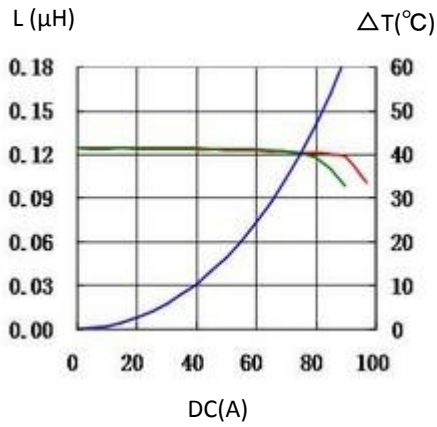
CDB80D92



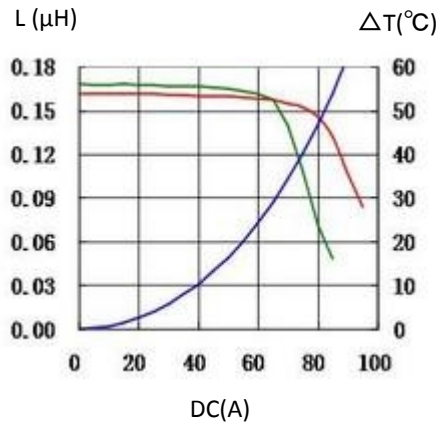
Saturation Current & Temperature Rise Graph

— L (20°C) — L (100°C) — ΔT

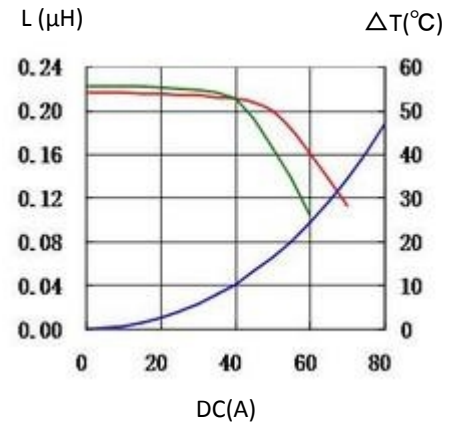
1. CDB80D92NP-R12MC



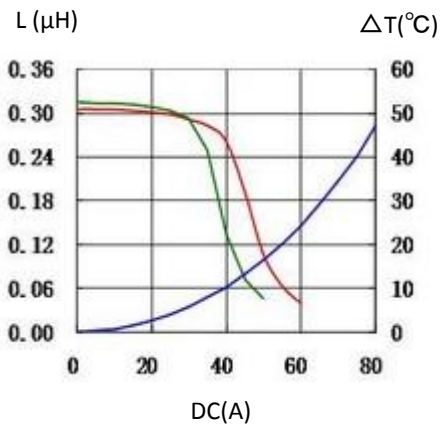
2. CDB80D92NP-R15MC



3. CDB80D92NP-R22MC



4. CDB80D92NP-R30MC



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