

SMD Power Inductor

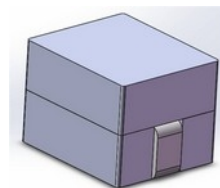
CDB78D73B



Recommended Type

Description

- Ferrite core construction.
- Magnetically shielded.
- L×W×H:10.0×8.0×7.5mm Max.
- Product weight: 2.4g(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~+125°C

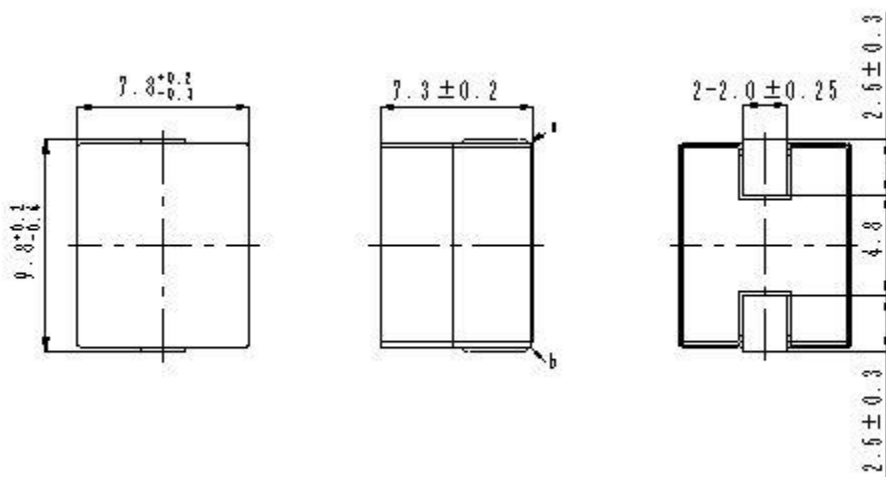
Packaging

- Carrier tape and reel packaging
- 500pcs per reel

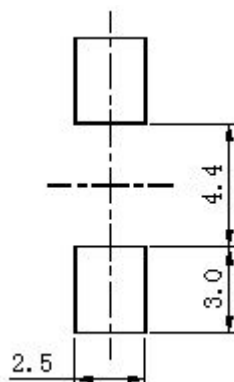
Applications

- 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 center network
- Graphics cards and battery power systems

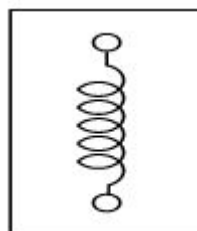
Dimension - [mm]



Recommended Land pattern - [mm]



Wire Connection



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Recommended Type

Electrical Characteristics

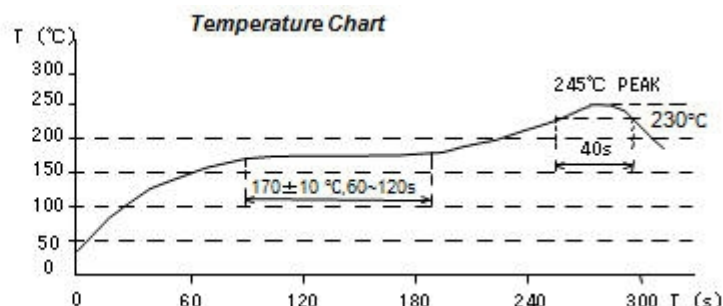
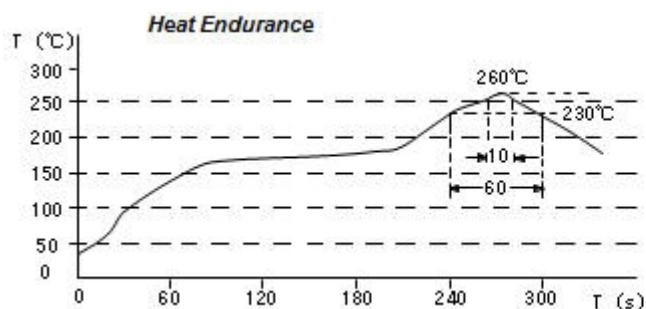
Part Number	Inductance [Within] (μ H) ※1	D.C.R. at 20°C Max.(Typ.) (m Ω)	Saturation Current (A) Max.(Typ.) ※2		Temperature Rise Current (A) Max.(Typ.) ※3
			20°C	125°C	
CDB78D73BNP-R12MC	0.12 $\pm$ 20%	0.33 (0.29)	73.00 (86.00)	58.00 (68.00)	(50.00)
CDB78D73BNP-R15MC	0.15 $\pm$ 20%	0.33 (0.29)	58.00 (68.00)	47.00 (55.00)	(50.00)
CDB78D73BNP-R20MC	0.20 $\pm$ 20%	0.33 (0.29)	42.50 (50.00)	34.00 (40.00)	(50.00)
CDB78D73BNP-R27MC	0.27 $\pm$ 20%	0.33 (0.29)	31.50 (37.00)	23.80 (28.00)	(50.00)

※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 coil increased $\Delta T=40^{\circ}\text{C}$ ($T_a=20^{\circ}\text{C}$).

Solder Reflow Condition



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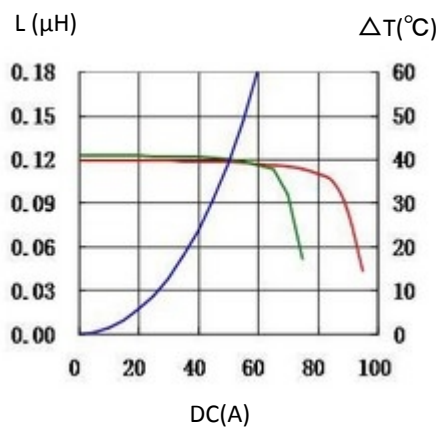
CDB78D73B



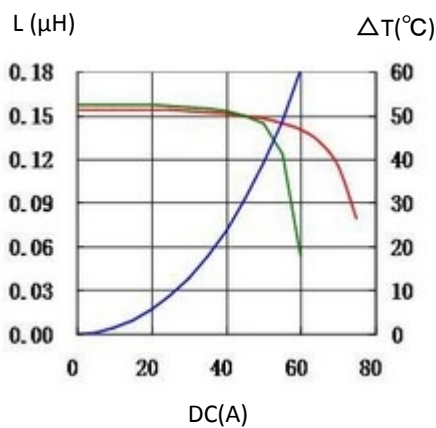
Saturation Current & Temperature Rise Graph

— L (20°C) — L (125°C) — ΔT

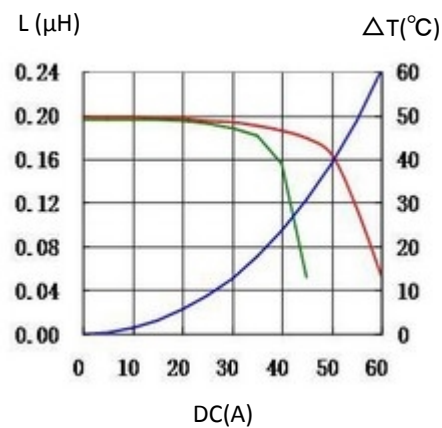
1. CDB78D73BNP-R12MC



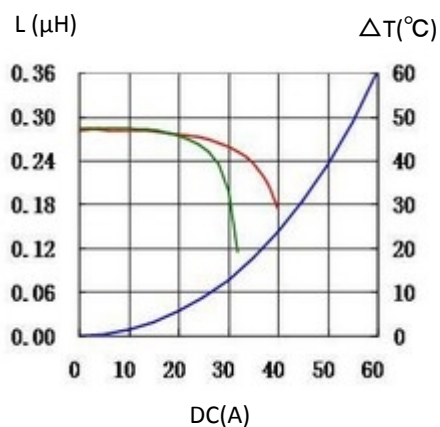
2. CDB78D73BNP-R15MC



3. CDB78D73BNP-R20MC



4. CDB78D73BNP-R27MC



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