

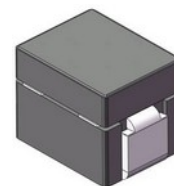
# SMD Power Inductor

## CDB78D83



### 特点

- Ferrite core construction
- Magnetically shielded
- L×W×H:10.0×8.0×8.5mm Max.
- Product weight: 3.2g (Ref.)
- Moisture Sensitivity Level: 1



### 环境规格

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

### 包装

- Carrier tape and reel packaging
- 400pcs per reel

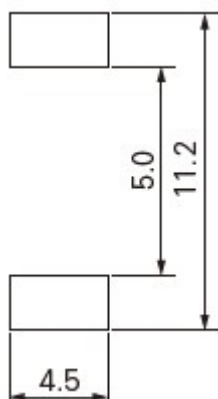
### 用途

- 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

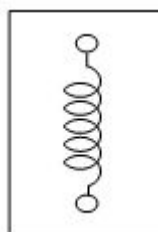
### 外形尺寸 - [mm]



### 推荐焊盘尺寸 - [mm]



### 接线图 (底面)



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### 电气特性规格

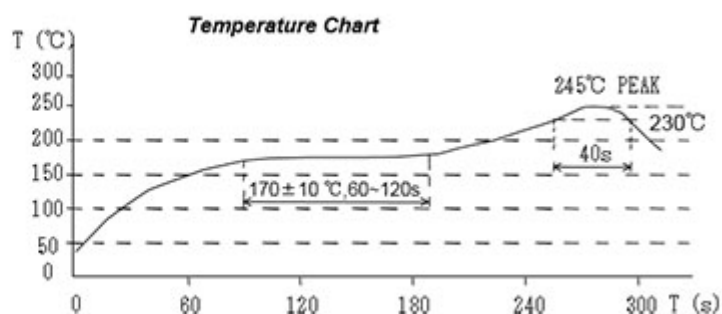
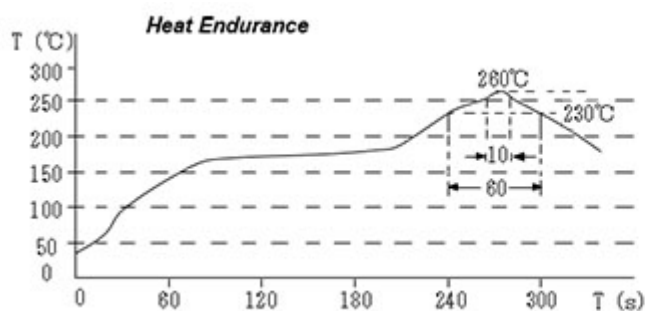
品名	电感值 [within] ( $\mu$ H) ※1	直流电阻 (20℃) Max. (Typ.) (m $\Omega$ )	饱和电流 (A) Max. (Typ.) ※2		温度上升电流 (A) Max. (Typ.) ※3
			20℃	125℃	
CDB78D83NP-R10MC	0.10 $\pm$ 20%	(0.125)	104 (123)	86.00 (101)	(90.00)
CDB78D83NP-R15MC	0.15 $\pm$ 20%	(0.125)	64.00 (75.00)	54.00 (64.00)	(90.00)
CDB78D83NP-R25MC	0.25 $\pm$ 20%	(0.125)	34.00 (40.00)	30.00 (36.00)	(90.00)

※1 Measuring frequency inductance at 1MHz.

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

### 回流焊耐热与推荐温度曲线图



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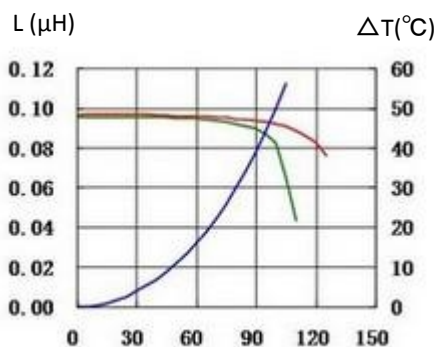
### 直流饱和电流&温度上升曲线图

— L (20°C) — L (125°C) — ΔT

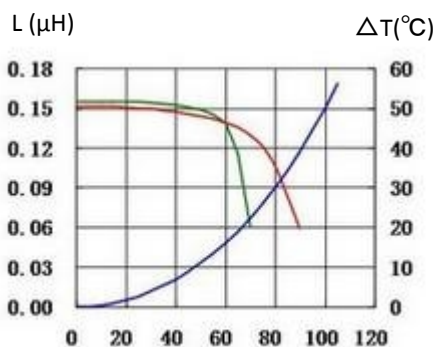
1. CDB78D83NP-R10MC

2. CDB78D83NP-R15MC

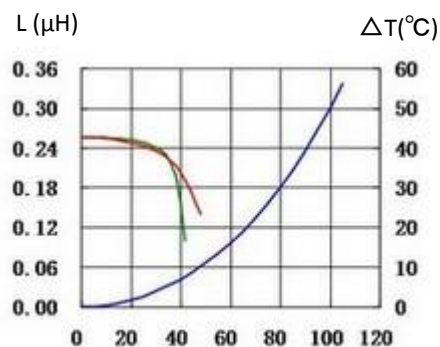
3. CDB78D83NP-R25MC



DC(A)



DC(A)



DC(A)



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