

SMD Power Inductor

CDB78D78



特点

- Ferrite core construction
- Magnetically shielded
- L×W×H:12.5×8.0×8.0mm Max.
- Product weight: 3.4g(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~+125°C

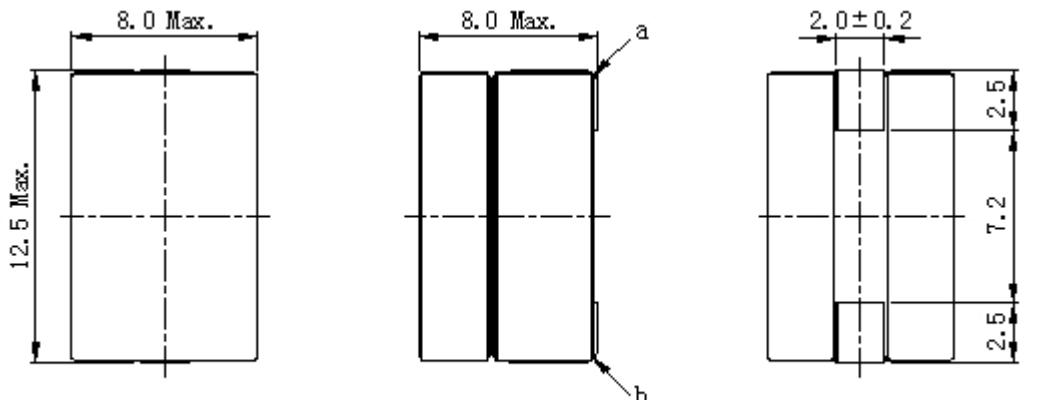
包装

- Carrier tape and reel packaging
- 500pcs per reel

用途

- Multi-phase and V core regulators
- Voltage Regulation Modules (VRMs). Such as server and desk-top, Central Process 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]



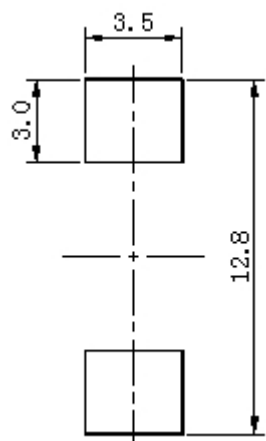
- * Dimension without tolerance is reference value.
- * The DCR is measured from point "a" to "b". ↵

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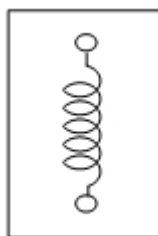
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推荐焊盘尺寸 - [mm]



接线图 (底面)



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电气特性规格

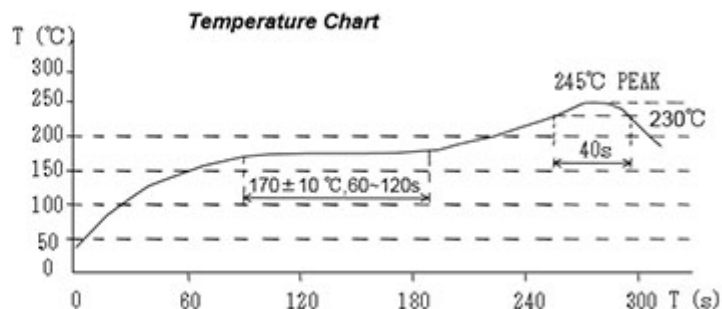
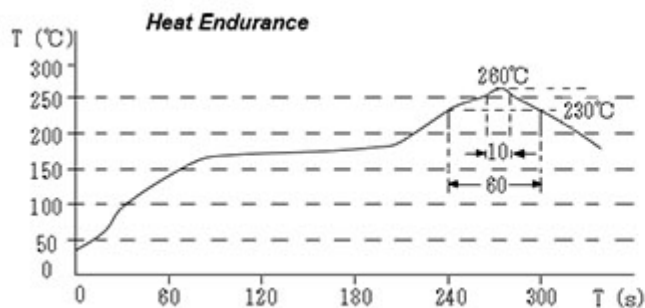
品名	电感值 [within] (μ H) ※1	直流电阻 (20℃) Max. (Typ.) (m Ω)	饱和电流 (A) Max. (Typ.) ※2		温度上升电流 (A) Max. (Typ.) ※3
			20℃	100℃	
CDB78D78NP-R15MC	0.15 \pm 20%	0.29 (0.28)	91.80 (108)	74.80 (88.00)	(57.00)
CDB78D78NP-R19MC	0.19 \pm 20%	0.29 (0.28)	63.70 (75.00)	59.50 (70.00)	(57.00)
CDB78D78NP-R22MC	0.22 \pm 20%	0.29 (0.28)	56.00 (66.00)	46.70 (55.00)	(57.00)

※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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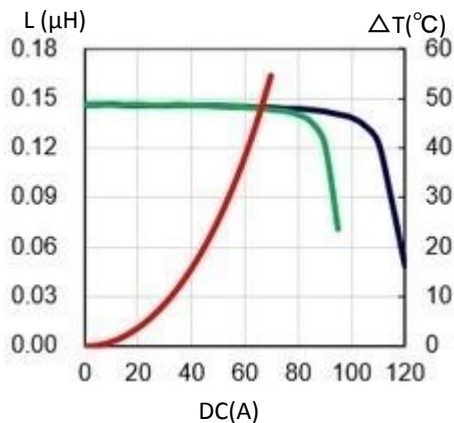
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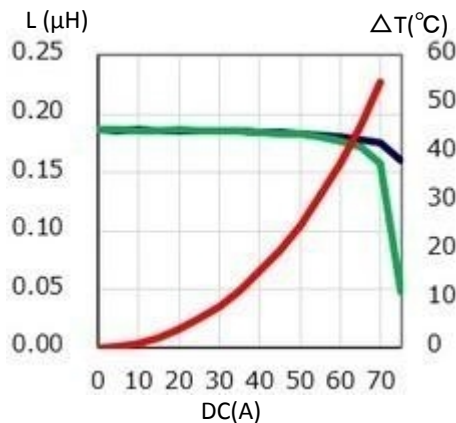
直流饱和电流&温度上升曲线图

— L (20°C) — L (100°C) — ΔT

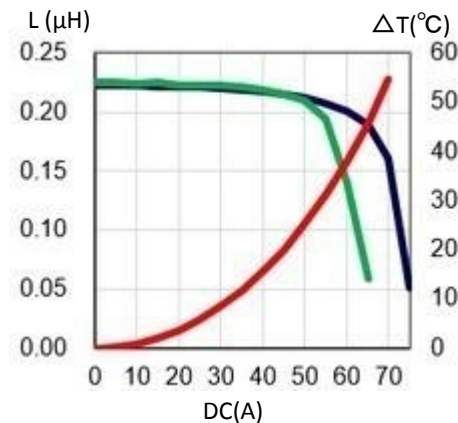
1. CDB78D78NP-R15MC



2. CDB78D78NP-R19MC



3. CDB78D78NP-R22MC



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