

SMD Power Inductor

CD4012MB/DS



特点

- Ferrite core construction
- Low profile resin-shielded
- L×W×H: 4.2×4.2×1.2mm Max.
- Product weight: 0.068g(Ref.)
- Moisture Sensitivity Level: 1



环境规格

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

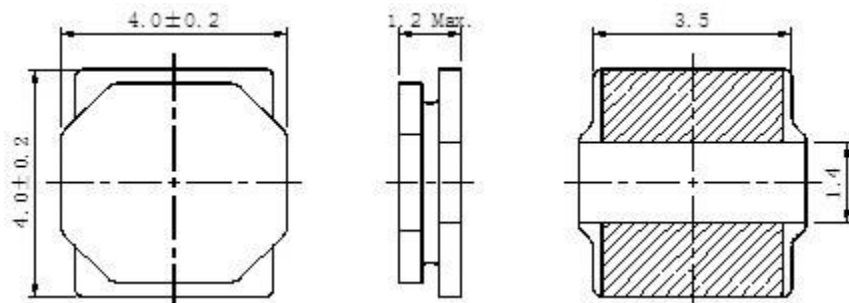
包装

- Carrier tape and reel packaging
- 1000pcs per reel

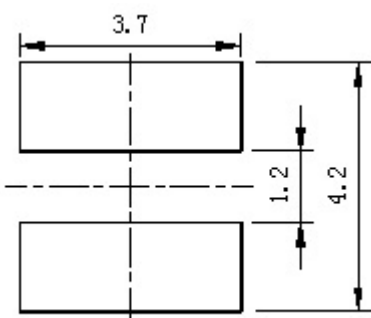
用途

- DC/DC converter for CPU in notebook PC, smartphones, LCD displays, HDDs, DVDs, SSDs, DVCs, DSCs, PDAs etc.

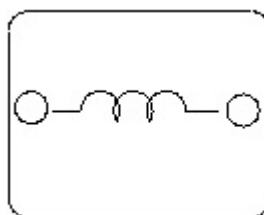
外形尺寸 - [mm]



推荐焊盘尺寸 - [mm]



接线图 (底面)



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电气特性规格

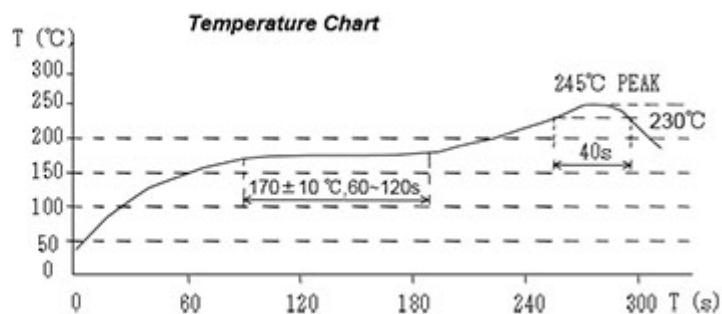
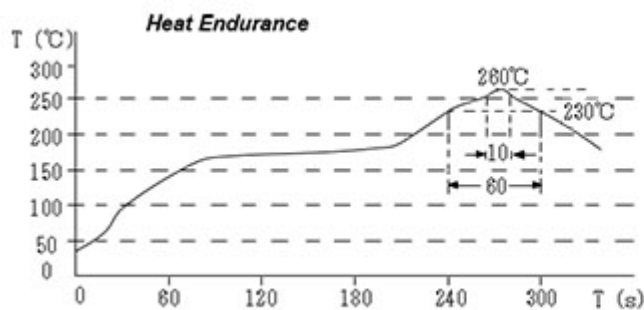
品名	电感值 [within] (μH) ※1	直流电阻 (20°C) Max. (Typ.) (m Ω)	饱和电流 (A) Max. (Typ.) ※2	温度上升电流 (A) Max. (Typ.) ※3
CD4012MBDS-1R0NC	1.00 \pm 30%	72.00 (60.00)	2.60 (3.00)	(2.00)
CD4012MBDS-2R2PC	2.20 \pm 25%	102 (85.00)	2.00 (2.30)	(1.80)
CD4012MBDS-3R3PC	3.30 \pm 25%	138 (115)	1.60 (1.80)	(1.60)
CD4012MBDS-4R7PC	4.70 \pm 25%	206 (172)	1.40 (1.60)	(1.30)
CD4012MBDS-6R8PC	6.80 \pm 25%	256 (213)	1.20 (1.40)	(1.10)
CD4012MBDS-100MC	10.00 \pm 20%	353 (294)	0.95 (1.10)	(1.00)
CD4012MBDS-150MC	15.00 \pm 20%	586 (488)	0.78 (0.91)	(0.70)
CD4012MBDS-220MC	22.00 \pm 20%	880 (733)	0.65 (0.76)	(0.64)

※1 Measuring frequency inductance at 100kHz 1V.

※2 Saturation current: This indicates the value of D.C. current when the inductance becomes 30% lower than its initial value.

※3 Temperature rise current: The actual value of D.C. current when the temperature of coil becomes $\Delta T=40^\circ\text{C}$ ($T_a=25^\circ\text{C}$).

回流焊耐热与推荐温度曲线图



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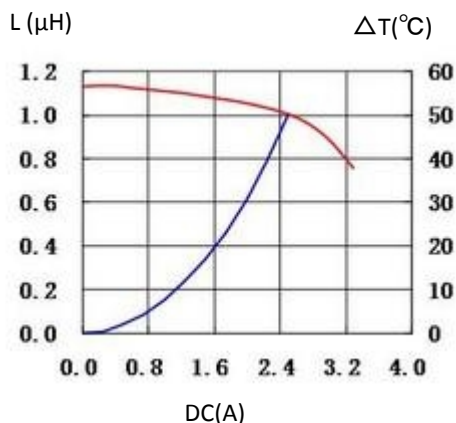
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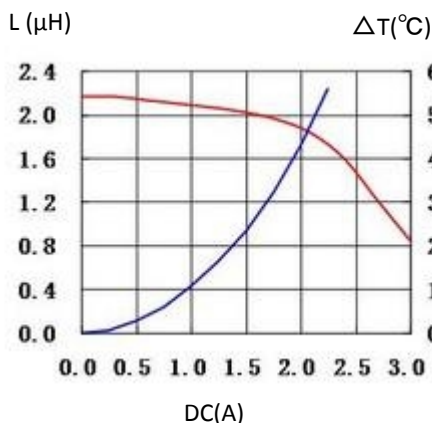
直流饱和电流&温度上升曲线图

— L (20°C) — ΔT

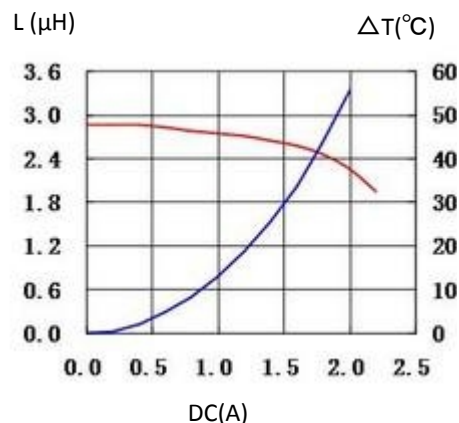
1. CD4012MBDS-1R0NC



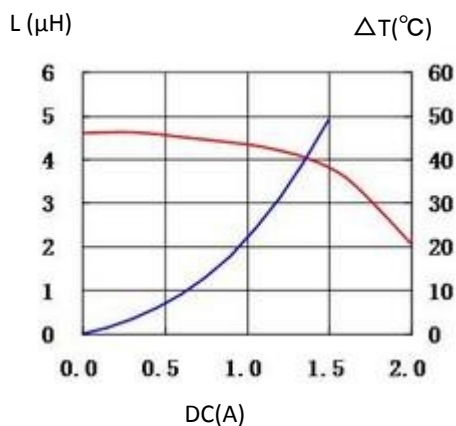
2. CD4012MBDS-2R2PC



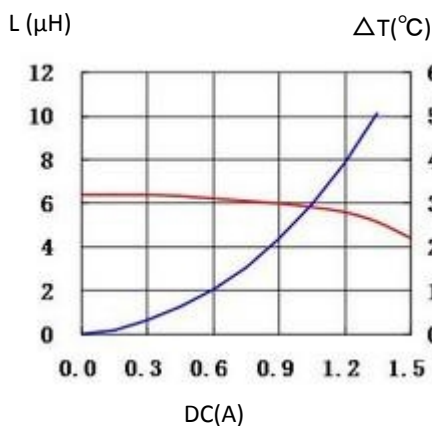
3. CD4012MBDS-3R3PC



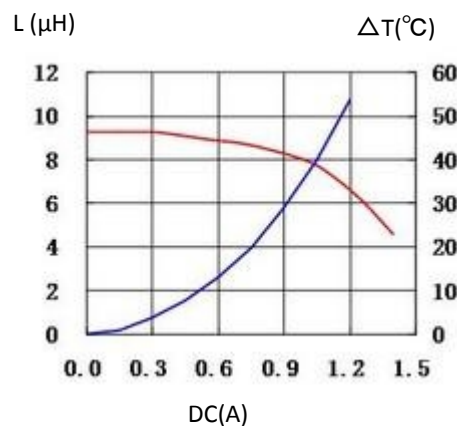
4. CD4012MBDS-4R7PC



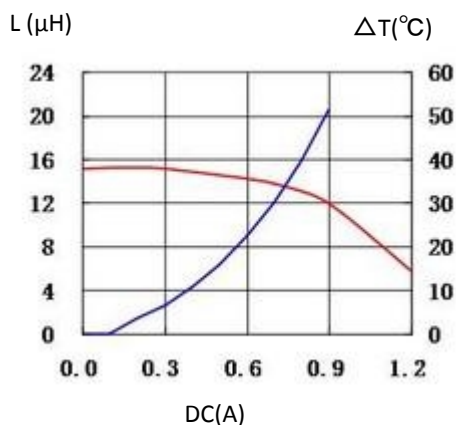
5. CD4012MBDS-6R8PC



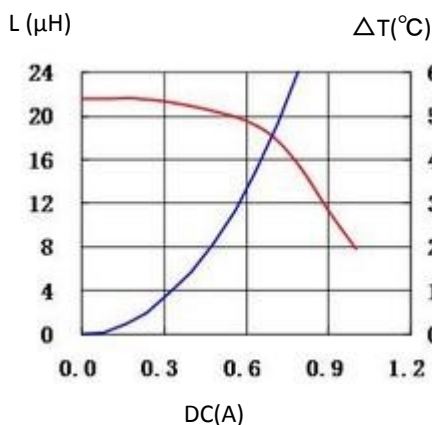
6. CD4012MBDS-100MC



7. CD4012MBDS-150MC



8. CD4012MBDS-220MC



注：记载内容如有变更，恕不另行通知。订货时请联系您最近的销售办事处以获取最新产品信息。

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