

SMD Power Inductor

CY0420AT125/DS



特点

- Metal alloy
- Magnetically shielded
- L×W×H:4.75×4.4×2mm Max.
- Absolute maximum voltage (across inductor): 50V
- Product weight:0.18 g (Ref.)
- Moisture Sensitivity Level: 1
- AEC-Q200 qualified



环境规格

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

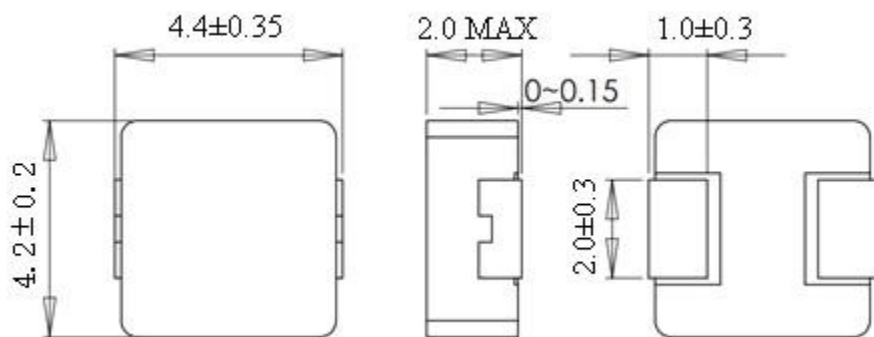
包装

- Carrier tape and reel packaging
- 3000pcs per reel

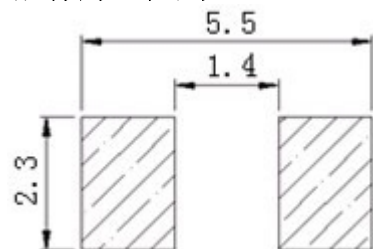
用途

- Suitable for DC/DC converters in ECUs, LED head light systems, or other high reliability designs for automotive applications (Note: these products are not intended for use in Airbag or Braking System applications)

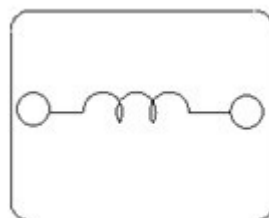
外形尺寸 - [mm]



推荐焊盘尺寸 - [mm]



接线图 (底面)





电气特性规格

品名	电感值 [within] (μ H) ※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
CY0420AT125DS-R22MC	0.22 \pm 20%	6.90 (6.00)	18.40 (23.00)	8.00 (9.00)
CY0420AT125DS-R47MC	0.47 \pm 20%	13.50 (11.50)	10.20 (12.80)	6.40 (7.00)
CY0420AT125DS-R56MC	0.56 \pm 20%	14.00 (12.00)	8.60 (10.80)	6.00 (6.50)
CY0420AT125DS-R68MC	0.68 \pm 20%	17.00 (14.50)	8.00 (10.00)	5.60 (6.30)
CY0420AT125DS-R82MC	0.82 \pm 20%	23.00 (20.00)	7.20 (9.00)	4.40 (5.00)
CY0420AT125DS-1R0MC	1.00 \pm 20%	26.00 (22.50)	6.20 (7.80)	4.20 (4.80)
CY0420AT125DS-1R2MC	1.20 \pm 20%	31.00 (27.00)	6.10 (7.70)	4.10 (4.50)
CY0420AT125DS-2R2MC	2.20 \pm 20%	53.00 (46.00)	5.50 (6.90)	3.20 (3.60)
CY0420AT125DS-3R3MC	3.30 \pm 20%	85.00 (74.00)	4.40 (5.60)	2.20 (2.50)
CY0420AT125DS-4R7MC	4.70 \pm 20%	115 (100)	3.80 (4.80)	2.00 (2.20)
CY0420AT125DS-6R8MC	6.80 \pm 20%	152 (132)	2.80 (3.50)	1.70 (2.00)
CY0420AT125DS-8R2MC	8.20 \pm 20%	178 (155)	2.30 (2.90)	1.60 (1.80)
CY0420AT125DS-100MC	10.00 \pm 20%	190 (165)	2.00 (2.50)	1.50 (1.70)

※1 Measuring frequency inductance at 100kHz, 0.25V.

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

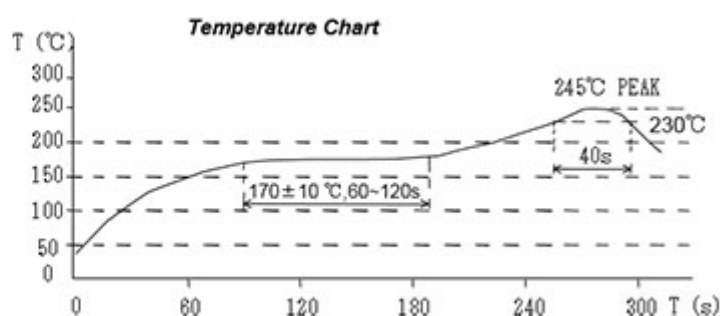
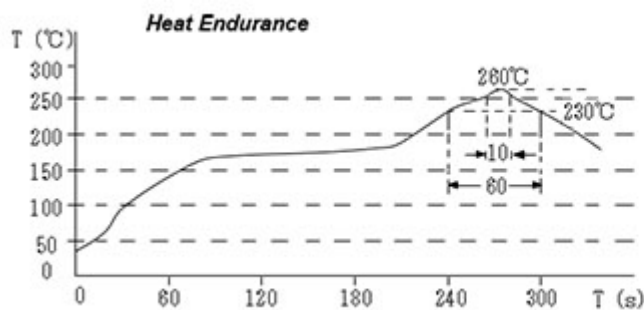
※3 Temperature rise current: The value of DC current when the temperature of coil becomes $\Delta T=40^{\circ}\text{C}$ ($T_a=25^{\circ}\text{C}$).

※ The allowable current shall be defined smaller value of either the saturation current or the temperature rise current, when being generated DC current.

※ Within a suitable application, the part temperature depends on circuit design and certain heat dissipation conditions. This should be checked in a worst case operation mode. In normal case, the max standard operating temperature of $+125^{\circ}\text{C}$ should not be exceeded.

※ Absolute maximum voltage(across inductor):50V

回流焊耐热与推荐温度曲线图



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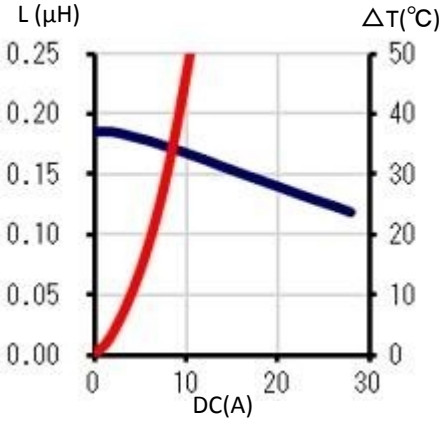
CY0420AT125/DS



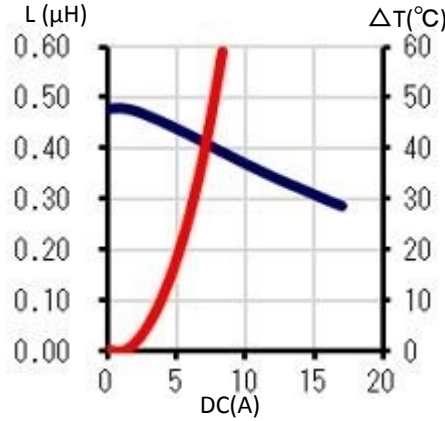
直流饱和电流&温度上升曲线图

— L (25°C) — ΔT

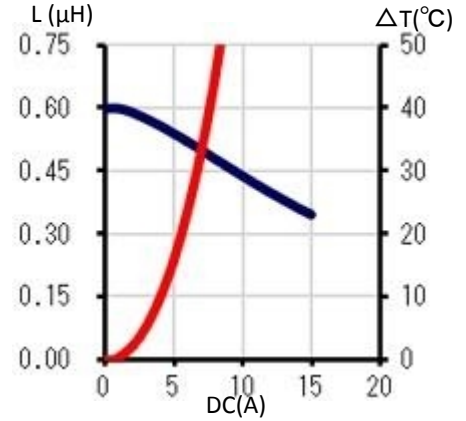
1. CY0420AT125DS-R22MC



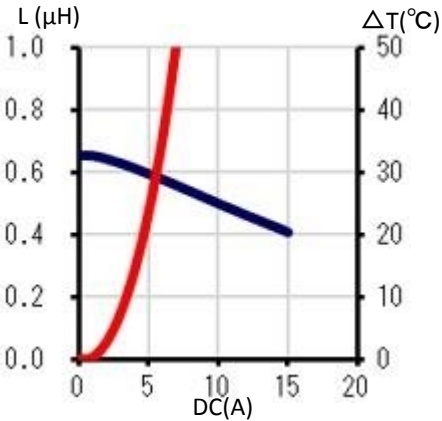
2. CY0420AT125DS-R47MC



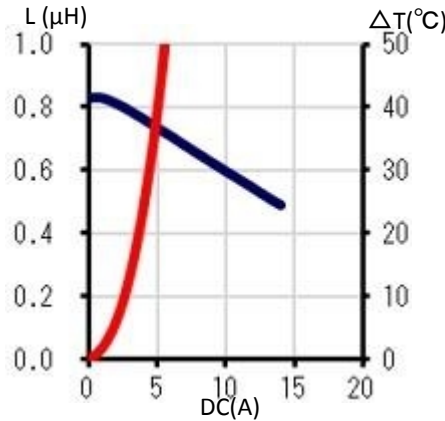
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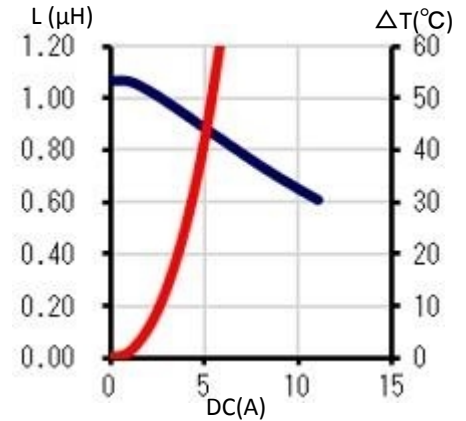
4. CY0420AT125DS-R68MC



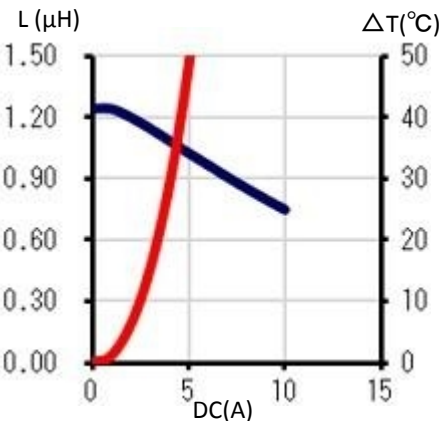
5. CY0420AT125DS-R82MC



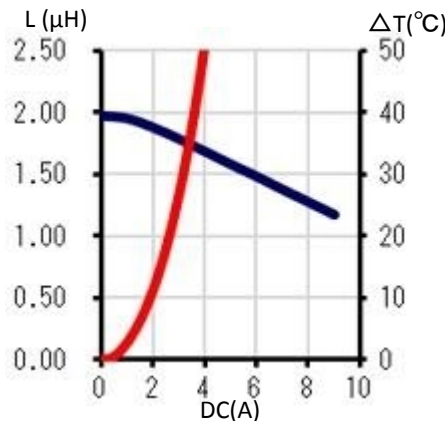
6. CY0420AT125DS-1R0MC



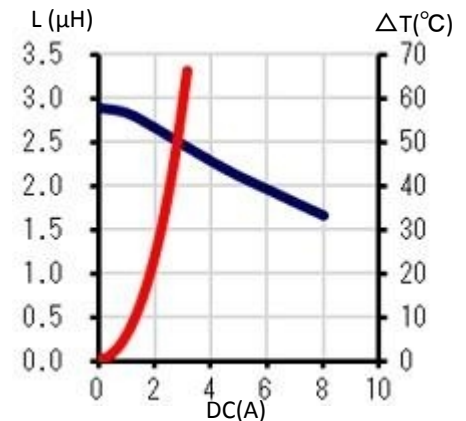
7. CY0420AT125DS-1R2MC



8. CY0420AT125DS-2R2MC



9. CY0420AT125DS-3R3MC



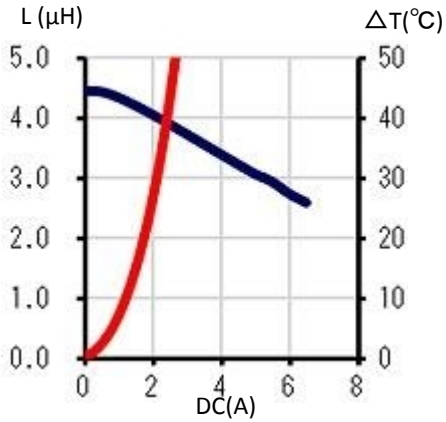
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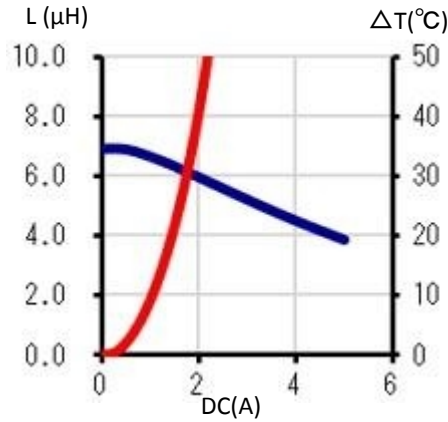
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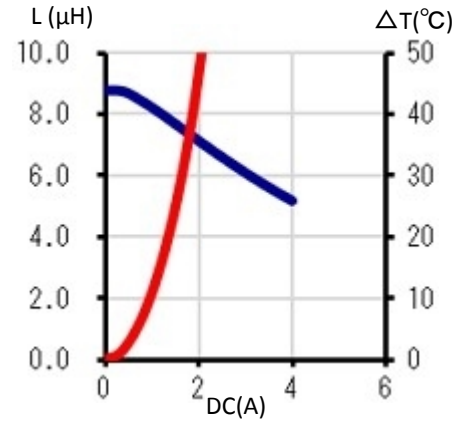
10. CY0420AT125DS-4R7MC



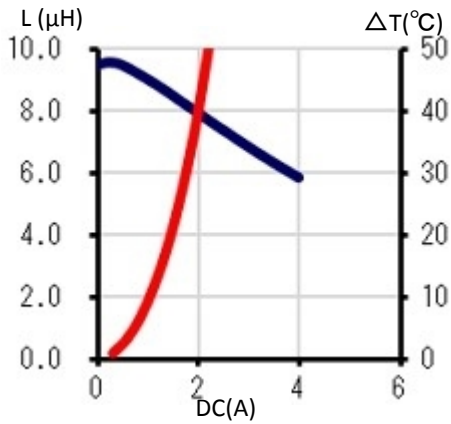
11. CY0420AT125DS-6R8MC



12. CY0420AT125DS-8R2MC



13. CY0420AT125DS-100MC



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