

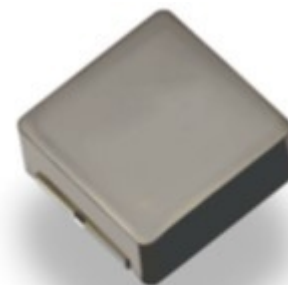
SMD Power Inductor

CY1770AT125/DS



特点

- Metal alloy
- Magnetically shielded
- L×W×H:18×17.3×7.0mm Max.
- Absolute maximum voltage (across inductor): 50V
- Product weight:0.75g (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)

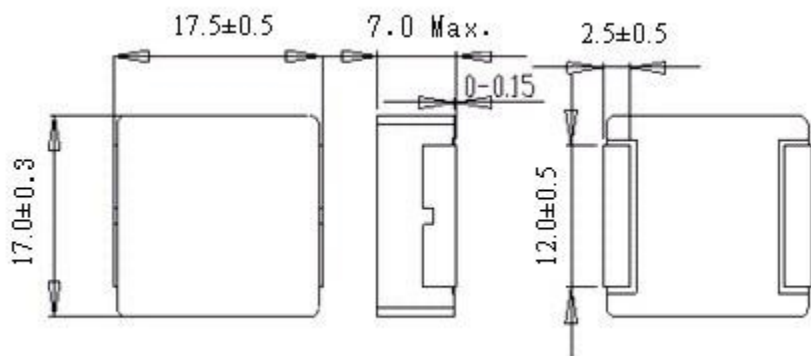
包装

- Carrier tape and reel packaging
- 150pcs per reel

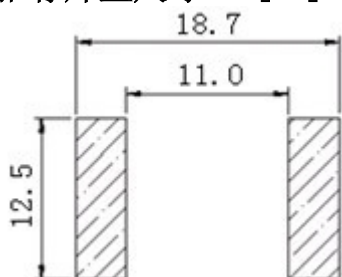
用途

- Suitable for DC/DC converter on ECU and LED head light, the other high reliability environment for automotive application.

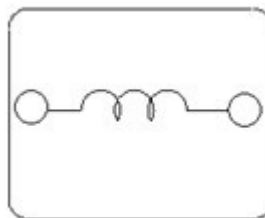
外形尺寸 - [mm]



推荐焊盘尺寸 - [mm]



接线图 (底面)



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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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 |
|---------------------|----------------------------------|--|----------------------------|---------------------------------|
| CY1770AT125DS-1R0MC | 1.00 \pm 20% | 1.55 (1.35) | 43.00 (54.00) | 35.00 (40.00) |
| CY1770AT125DS-1R5MC | 1.50 \pm 20% | 2.00 (1.70) | 38.50 (48.00) | 33.00 (37.50) |
| CY1770AT125DS-2R2MC | 2.20 \pm 20% | 2.65 (2.30) | 31.00 (39.00) | 30.00 (34.00) |
| CY1770AT125DS-3R3MC | 3.30 \pm 20% | 3.60 (3.10) | 30.50 (38.00) | 23.00 (26.00) |
| CY1770AT125DS-4R7MC | 4.70 \pm 20% | 4.95 (4.30) | 24.50 (30.50) | 21.00 (24.00) |
| CY1770AT125DS-5R6MC | 5.60 \pm 20% | 5.12 (4.45) | 23.50 (29.40) | 20.00 (23.00) |
| CY1770AT125DS-6R8MC | 6.80 \pm 20% | 7.55 (6.55) | 22.50 (28.00) | 18.00 (20.00) |
| CY1770AT125DS-8R2MC | 8.20 \pm 20% | 9.50 (8.20) | 16.80 (21.00) | 12.00 (13.50) |
| CY1770AT125DS-100MC | 10.00 \pm 20% | 10.50 (9.00) | 15.00 (19.00) | 10.50 (12.00) |
| CY1770AT125DS-150MC | 15.00 \pm 20% | 14.50 (12.50) | 14.50 (18.50) | 10.00 (11.50) |
| CY1770AT125DS-220MC | 22.00 \pm 20% | 21.00 (18.00) | 12.50 (15.50) | 8.00 (9.20) |
| CY1770AT125DS-330MC | 33.00 \pm 20% | 37.00 (32.00) | 9.50 (12.00) | 6.70 (7.50) |
| CY1770AT125DS-470MC | 47.00 \pm 20% | 47.00 (41.00) | 7.00 (8.80) | 5.60 (6.30) |

※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.

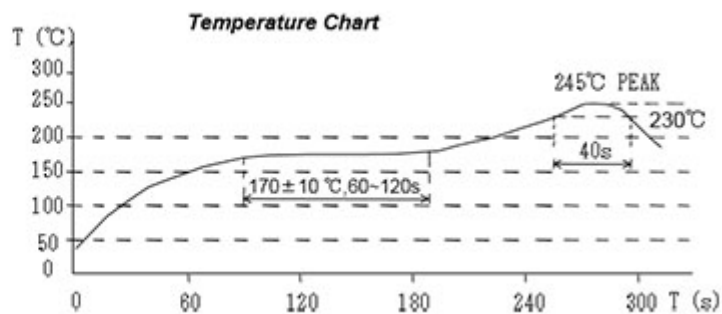
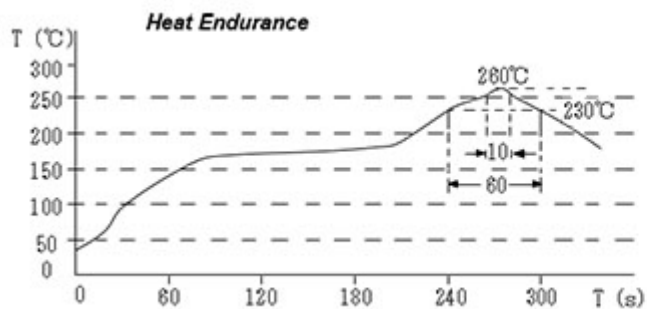
※ Absolute maximum voltage(across inductor): 50V

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回流焊耐热与推荐温度曲线图



SMD Power Inductor

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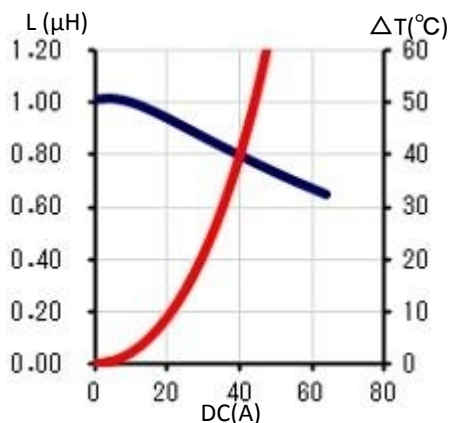


直流饱和电流&温度上升曲线图

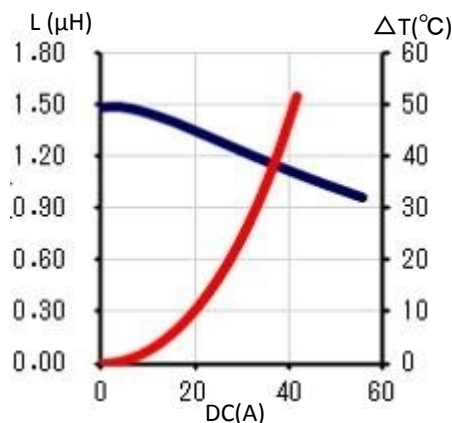
— L (25°C)

— ΔT

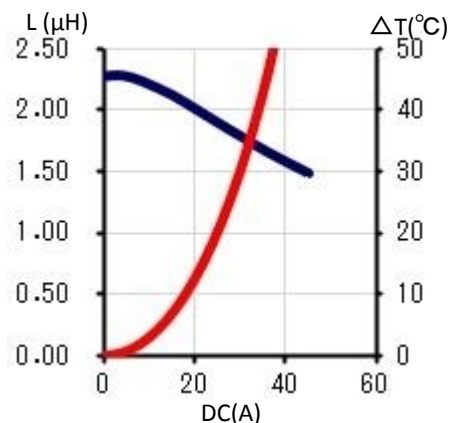
1. CY1770AT125DS-1R0MC



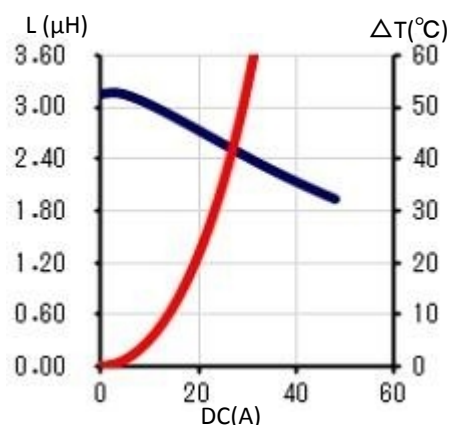
2. CY1770AT125DS-1R5MC



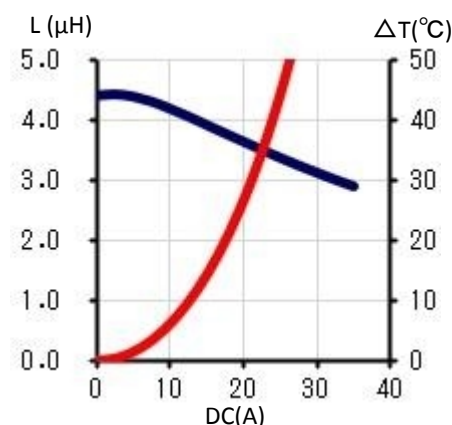
3. CY1770AT125DS-2R2MC



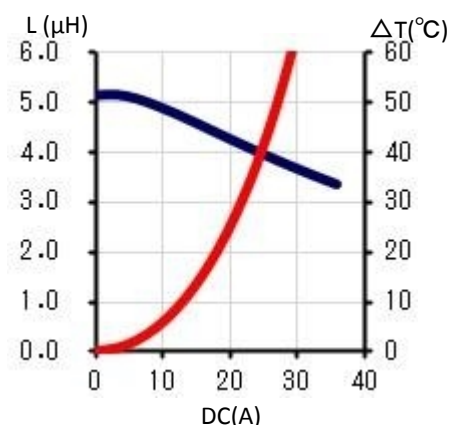
4. CY1770AT125DS-3R3MC



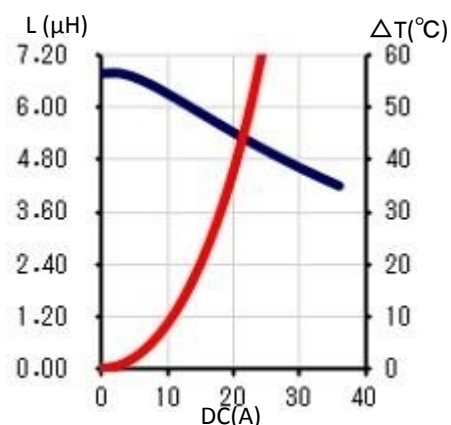
5. CY1770AT125DS-4R7MC



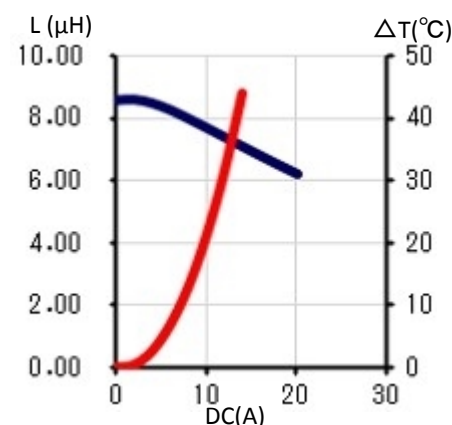
6. CY1770AT125DS-5R6MC



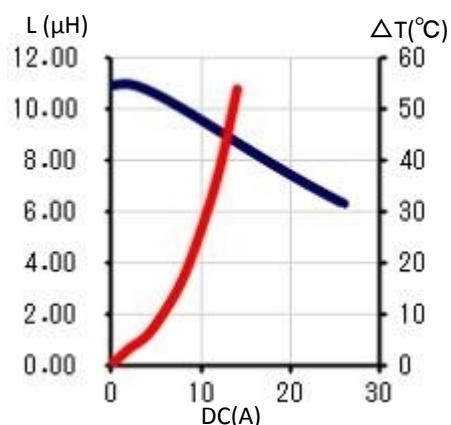
7. CY1770AT125DS-6R8MC



8. CY1770AT125DS-8R2MC



9. CY1770AT125DS-100MC



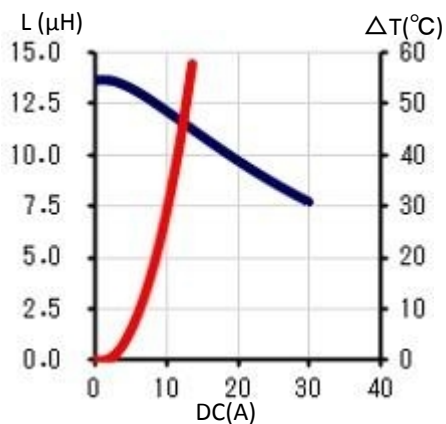
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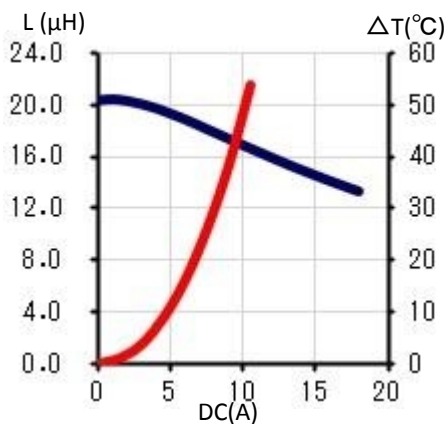
CY1770AT125/DS



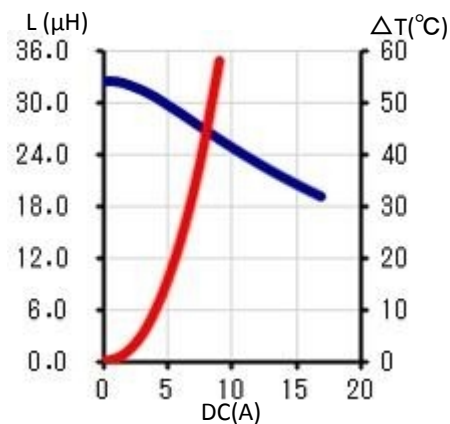
10. CY1770AT125DS-150MC



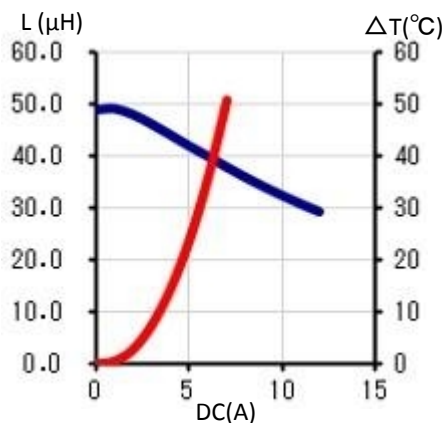
11. CY1770AT125DS-220MC



12. CY1770AT125DS-330MC



13. CY1770AT125DS-470MC



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