

SMD Power Inductor

CY0650AT125/DS



特点

- Metal alloy
- Magnetically shielded
- L x W x H: 7.50 x 6.80 x 5.10 mm Max.
- Absolute maximum voltage (across inductor): 50V
- Product weight: 1.25g (Ref.)
- Moisture Sensitivity Level: 1
- AEC-Q200 qualified



环境规格

- Operating temperature range: $-40^{\circ}\text{C} \sim +125^{\circ}\text{C}$ (including self-heating)

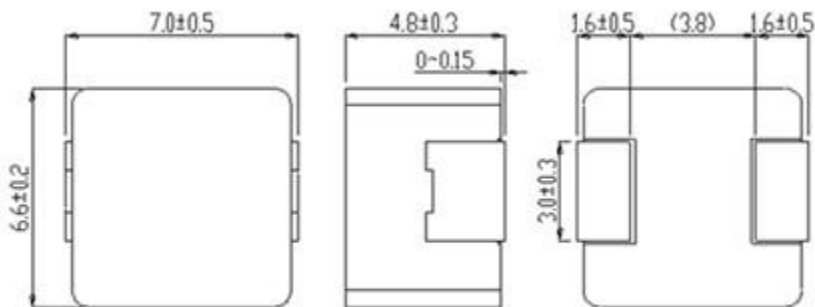
包装

- Carrier tape and reel packaging
- 1000pcs per reel

用途

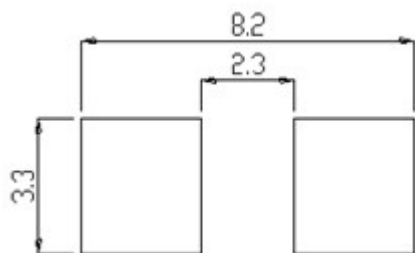
- Suitable for DC/DC converters in ECUs, LED head light systems, or other high reliability designs for automotive applications (Note: these products are not intended for use in Airbag or Braking System applications)

外形尺寸 - [mm]

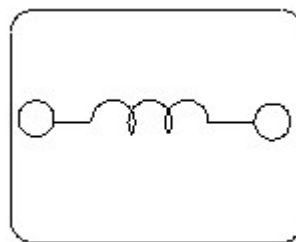


* Dimension without tolerance is reference value.

推荐焊盘尺寸 - [mm]



接线图 (底面)





电气特性规格

品名	电感值 [within] (μH) ※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
CY0650AT125DS-R47MC	0.47 \pm 20%	3.50 (3.00)	21.40 (26.80)	18.00 (20.00)
CY0650AT125DS-R68MC	0.68 \pm 20%	4.70 (4.10)	14.50 (18.00)	15.00 (17.00)
CY0650AT125DS-1R0MC	1.00 \pm 20%	6.30 (5.40)	13.80 (17.00)	12.50 (14.50)
CY0650AT125DS-1R5MC	1.50 \pm 20%	8.10 (7.00)	12.00 (14.60)	11.00 (13.00)
CY0650AT125DS-2R2MC	2.20 \pm 20%	12.00 (10.50)	10.00 (12.20)	9.00 (10.40)
CY0650AT125DS-3R3MC	3.30 \pm 20%	17.50 (15.00)	9.00 (11.50)	8.00 (9.10)
CY0650AT125DS-4R7MC	4.70 \pm 20%	25.60 (22.20)	7.70 (9.70)	6.40 (7.30)
CY0650AT125DS-6R8MC	6.80 \pm 20%	39.00 (34.00)	6.80 (8.50)	5.50 (6.20)
CY0650AT125DS-100MC	10.00 \pm 20%	58.10 (50.50)	6.00 (7.80)	4.20 (4.80)
CY0650AT125DS-150MC	15.00 \pm 20%	78.20 (68.00)	4.50 (5.60)	3.10 (3.90)
CY0650AT125DS-220MC	22.00 \pm 20%	133.50 (116)	3.50 (4.20)	2.60 (2.90)
CY0650AT125DS-330MC	33.00 \pm 20%	200 (173)	2.60 (3.30)	2.30 (2.60)

※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.

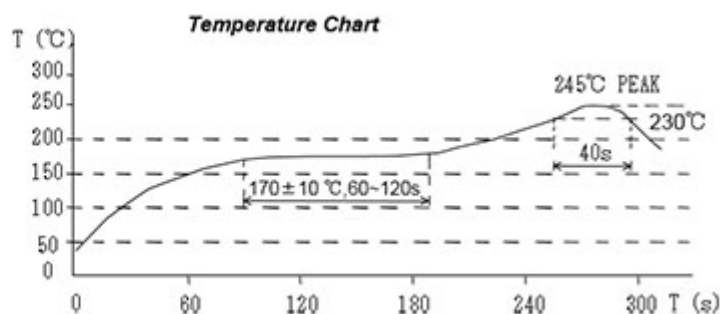
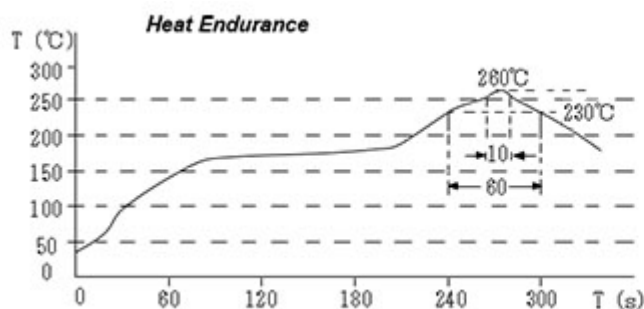
※3 Temperature rise current: The value of DC current when the temperature of coil becomes $\Delta T=40^{\circ}\text{C}$ ($T_a=25^{\circ}\text{C}$).

※ 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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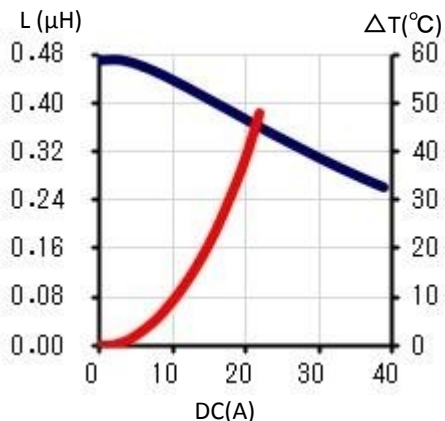


直流饱和电流&温度上升曲线图

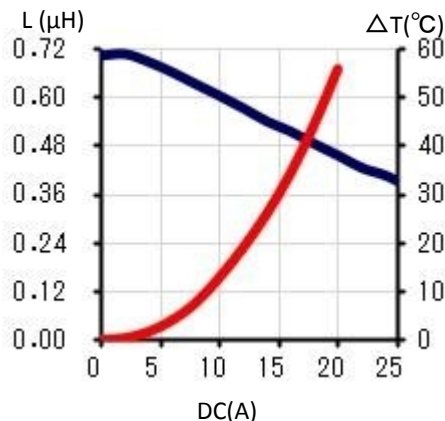
— L (25°C)

— ΔT

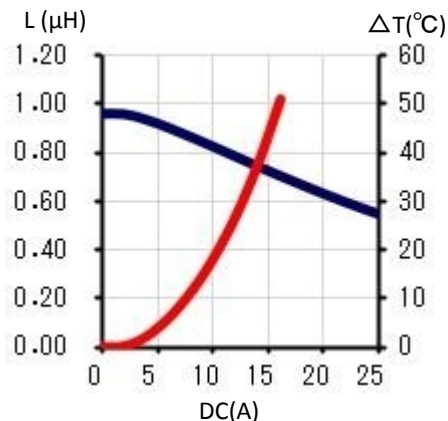
1. CY0650AT125DS-R47MC



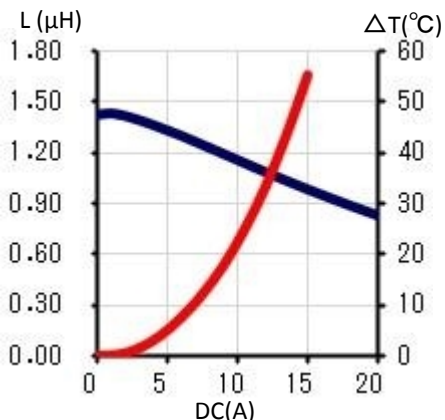
2. CY0650AT125DS-R68MC



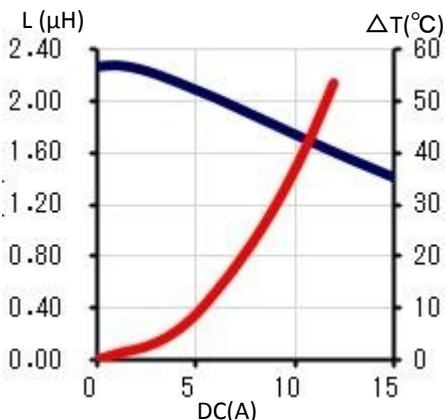
3. CY0650AT125DS-1R0MC



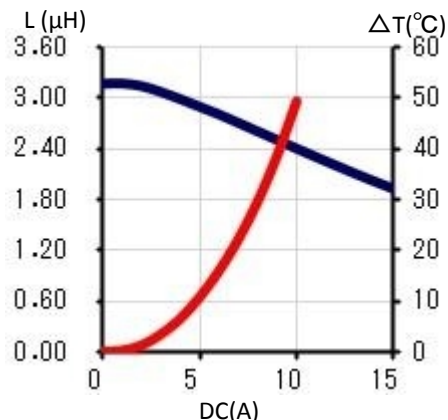
4. CY0650AT125DS-1R5MC



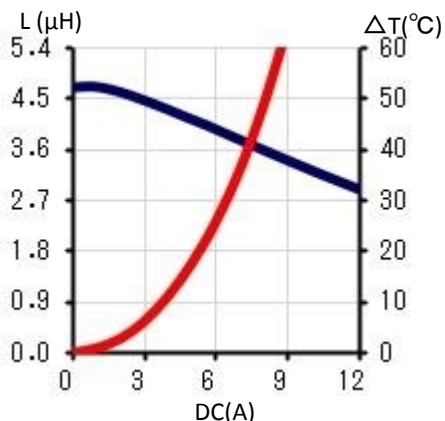
5. CY0650AT125DS-2R2MC



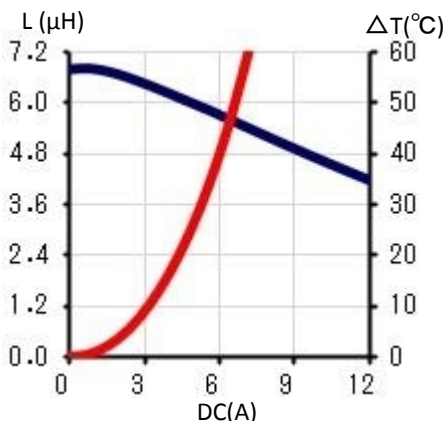
6. CY0650AT125DS-3R3MC



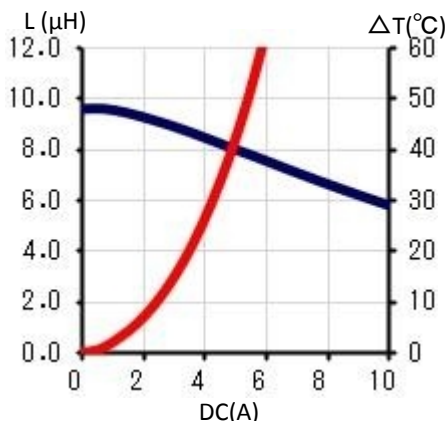
7. CY0650AT125DS-4R7MC



8. CY0650AT125DS-6R8MC



9. CY0650AT125DS-100MC



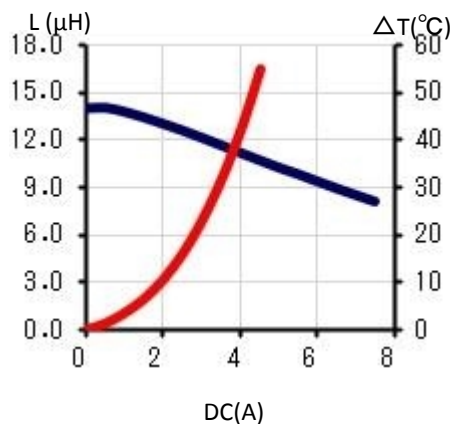
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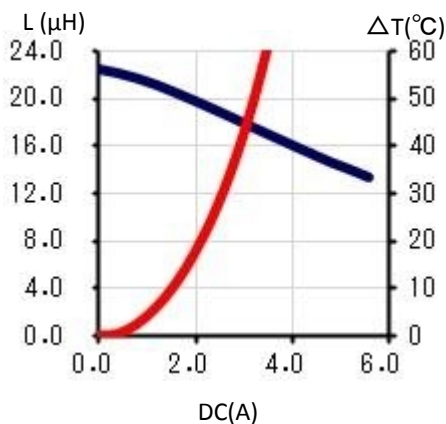
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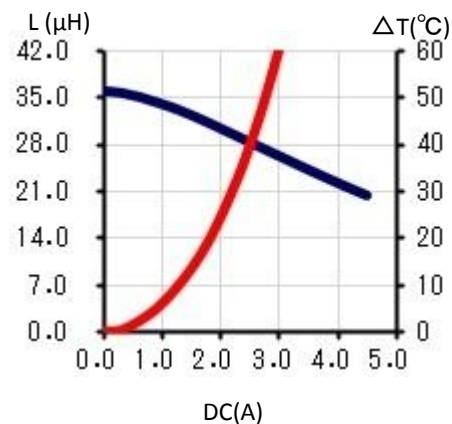
10. CY0650AT125DS-150MC



11. CY0650AT125DS-220MC



12. CY0650AT125DS-330MC



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