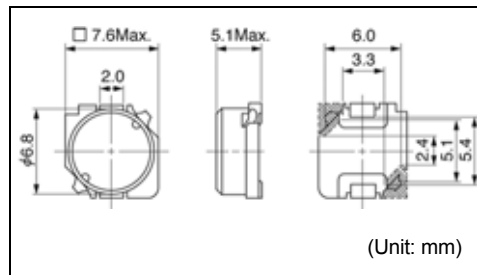


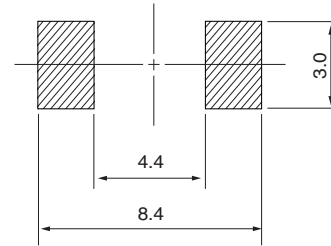
DH75C

Inductance Range: 1.2~680μH



Recommended patterns

推荐焊盘尺寸



(Unit: mm)

FEATURES 特点

- High reliability for vehicle application.
- Operating temperature range : -55°C~+125°C (Including self temperature rise.)
- Low profile (7.6mm Max. square, 5.1mm Max. height).
- Magnetically shielded construction and low DC resistance.
- Suitable for large currents.
- Ideal for a variety of DC-DC converter inductor applications.
- RoHS compliant.
- 车载应用的高可靠性。
- 工作温度范围: -55°C~+125°C (包括自我温度上升)
- 薄型构造(最大7.6毫米的平面, 最高5.1毫米)
- 磁性屏蔽结构和低直流电阻。
- 适用于大电流。
- 是适用于多种DC-DC转换器电感器的理想选择。
- 符合RoHS指令。

STANDARD PART NUMBERS 标准零件号码

TYPE DH75C (Quantity/reel; 1,000 PCS)

零件号码	电感值 ⁽¹⁾	公差	最大直流电阻 ⁽²⁾	最大电感值减小电流 ⁽³⁾	最大温度上升电流 ⁽³⁾
Part Number	Inductance ⁽¹⁾ L (μH)	Tolerance (%)	DC Resistance ⁽²⁾ (mΩ) Max.(Typ.)	Inductance Decrease Current ⁽³⁾ (A) Max.(Typ.) $\frac{\Delta L}{L} = 30\%$	Temperature Rise Current ⁽³⁾ $\Delta T = 20^\circ C$ (A) Max.(Typ.)
A1007AY-1R2M	1.2	± 20	22 (17)	4.3 (5.8)	3.0 (3.5)
A1007AY-2R4M	2.4	± 20	29 (23)	3.0 (4.1)	2.5 (3.0)
A1007AY-3R3M	3.3	± 20	32 (25)	2.6 (3.6)	2.3 (2.8)
A1007AY-5R1M	5.1	± 20	39 (31)	2.1 (2.8)	2.1 (2.5)
A1007AY-7R5M	7.5	± 20	46 (37)	1.8 (2.3)	1.9 (2.3)
A1007AY-100M	10	± 20	53 (43)	1.5 (2.0)	1.8 (2.1)
A1007AY-150M	15	± 20	74 (60)	1.2 (1.6)	1.5 (1.7)
A1007AY-220M	22	± 20	105 (86)	0.98 (1.3)	1.2 (1.4)
A1007AY-330M	33	± 20	160 (120)	0.81 (1.1)	0.96 (1.1)
A1007AY-470M	47	± 20	195 (150)	0.68 (0.91)	0.88 (1.0)
A1007AY-680M	68	± 20	300 (240)	0.57 (0.76)	0.69 (0.82)
A1007AY-101M	100	± 20	435 (350)	0.48 (0.65)	0.53 (0.63)
A1007AY-151M	150	± 20	555 (450)	0.38 (0.51)	0.47 (0.56)
A1007AY-221M	220	± 20	795 (650)	0.32 (0.43)	0.40 (0.47)
A1007AY-331M	330	± 20	1320 (1060)	0.26 (0.35)	0.31 (0.37)
A1007AY-471M	470	± 20	1560 (1280)	0.21 (0.29)	0.28 (0.33)
A1007AY-681M	680	± 20	2520 (2060)	0.18 (0.24)	0.22 (0.26)

- (1) Inductance is measured with a LCR meter 4284A (Agilent Technologies) or equivalent.
Test frequency at 100kHz
- (2) DC resistance is measured with 34420A (Agilent Technologies) or 3541(HIOKI). (Reference ambient temperature 25°C)
- (3) Maximum allowable DC current is that which inductance decrease current, or temperature rise current, whichever is smaller.
 - Inductance decrease current : The inductance value decreases 30% by the excitation of DC current. (reference ambient temperature 125°C)
 - Temperature rise current : The temperature rises 20°C by excitation of DC current. (reference ambient temperature 20°C)

- (1) 使用LCR仪表4284A (Agilent 技术) 或者功能相同的仪器测试电感值。
测试频率为100kHz。
- (2) 通过数码万用表34420A (Agilent技术) 或者3541(HIOKI)测试直流电阻。(环境温度25°C)
- (3) 允许的最大直流电流值是电感值减小电流, 或温度升高电流, 两者中较小的一个。
 - 电感值减小电流: 直流电流励磁使电感值降低30%。(参考环境温度为125°C)
 - 温度上升电流: 直流电流励磁使温度上升20°C (参考环境温度20°C)