

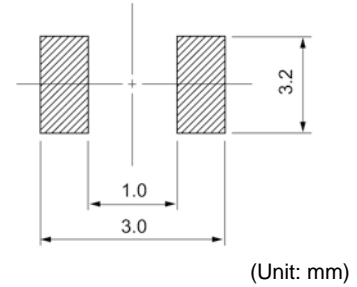
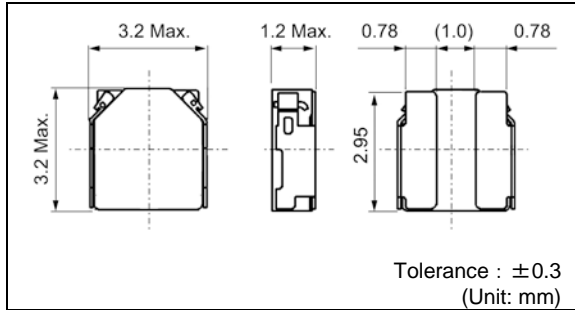
FSD0312

RoHS

REACH

Inductance Range: 0.56~4.7μH

Recommended patterns
推荐焊盘尺寸推奨



FEATURES 特点

- 3.0 × 3.0mm Max. square and 1.2mm Max. height.
- Magnetically shielded construction, low DC resistance.
- The use of magnetic iron powder ensure capability for large current.
- Low audible core noise.
- Ideal for DC-DC converter applications
- Operating temperature : -20~+100°C
- 最大3.0 × 3.0毫米的平面，最大高度1.2毫米
- 磁性屏蔽结构，低直流电阻
- 使用合金系磁性粉，保证了大电流
- 低芯片噪音
- DC-DC转换器电感器的理想选择
- 使用温度范围：-20~+100°C

STANDARD PART NUMBERS 标准零件号码

TYPE FSD0312 (Quantity/reel; 4,000 PCS)

零件号码	电感值 ⁽¹⁾	公差	最大直流电阻 ⁽²⁾	最大电感减小电流 ⁽³⁾	最大温度上升电流 ⁽⁴⁾
Part Number	Inductance ⁽¹⁾ (μH)	Tolerance (%)	DC Resistance ⁽²⁾ (mΩ) Max. (Typ.)	Inductance Decrease Current ⁽³⁾ (A) Max. (Typ.) $\frac{\Delta L}{L} = 30\%$	Temperature Rise Current ⁽⁴⁾ $\Delta T = 40^\circ C$ (A) Max. (Typ.)
FSD0312-H-R56M=P3	0.56	± 20	35 (29)	4.2 (5.6)	3.3 (3.9)
FSD0312-H-1R0M=P3	1.0	± 20	52 (43)	3.4 (4.5)	2.6 (3.1)
FSD0312-H-1R5M=P3	1.5	± 20	85 (71)	2.8 (3.8)	2.1 (2.5)
FSD0312-H-2R2M=P3	2.2	± 20	125 (105)	2.3 (3.1)	1.5 (1.8)
FSD0312-H-3R3M=P3	3.3	± 20	160 (130)	1.9 (2.6)	1.3 (1.5)
FSD0312-H-4R7M=P3	4.7	± 20	240 (200)	1.5 (2.0)	1.1 (1.3)

(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) Inductance Decrease Current based upon 30% inductance reduction from the initial value

(4) Temperature Rise Current based upon 40°C temperature rise. (Reference ambient temperature 25°C)

(5) Absolute maximum voltage 30VDC.

(1) LCR仪表4284A (Agilent技术) 或者功能相同的仪器在100kHz下测试电感值。

(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) 电感值降低电流是基于电感值从最初的值降低30%计算的。

(4) 温度升高电流是基于温度上升40°C的基础上衡量的。(参考周围环境温度25°C)

(5) 绝对最高电压30伏特。

注意：如果你准备使用该产品作为商业用途等，请确认你与我们的销售部仔细讨论了你的购买计划。

NOTICE: Please be sure that you carefully discuss your planned purchase with our sales division if you intend to use the product for business use etc. is severe.