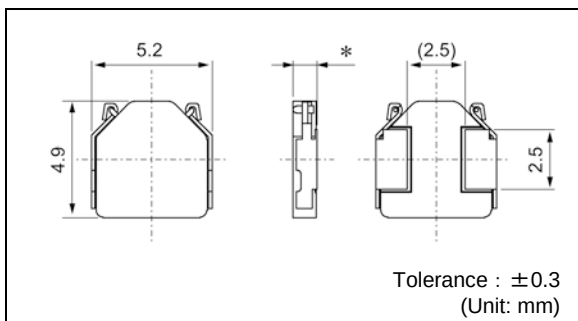
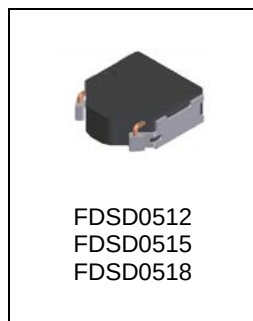


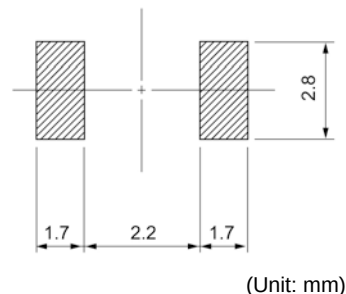
FDSD0512/ FDSD0515/ FDSD0518

Inductance Range: 1.0~6.8μH(FDSD0512)、1.0~4.7μH(FDSD0515)
0.68~10μH(FDSD0512)

Recommended patterns
推荐焊盘尺寸



* : FDSD0512 : 1.2mm Max
FDSD0515 : 1.5mm Max.
FDSD0518 : 1.8mm Max.



FEATURES 特点

- 5.2 × 4.9mm square and 1.2/ 1.5/ 1.8mm 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.
- RoHS compliant. Halogen Free.
- 最大5.2 × 4.9毫米的平面，最大高度1.2/1.5/1.8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
- 符合RoHS指令，无卤素

STANDARD PART NUMBERS 标准零件号码

TYPE FDSD0512 (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⁾ ΔT=40°C (A) Max. (Typ.)
FDSD0512-H-1R0M=P3	1.0	± 20	44 (37)	6.1 (7.6)	4.0 (4.7)
FDSD0512-H-K2R2M=P3	2.2	± 20	68 (56)	4.2 (5.2)	3.2 (3.8)
FDSD0512-H-4R7M=P3	4.7	± 20	180 (150)	3.0 (3.7)	2.0 (2.3)
FDSD0512-H-6R8M=P3	6.8	± 20	210 (180)	2.3 (2.9)	1.7 (2.0)

TYPE FDSD0515 (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⁾ ΔT=40°C (A) Max. (Typ.)
FDSD0515-H-1R0M=P3	1.0	± 20	30 (25)	7.0 (8.7)	5.2 (6.1)
FDSD0515-H-2R2M=P3	2.2	± 20	59 (49)	4.8 (6.0)	3.4 (4.0)
FDSD0515-H-3R3M=P3	3.3	± 20	75 (63)	3.8 (4.7)	3.0 (3.5)
FDSD0515-H-4R7M=P3	4.7	± 20	100 (82)	3.2 (4.0)	2.6 (3.0)



continued from previous page 接上页

STANDARD PART NUMBERS 标准零件号码

TYPE FDSD0518 (Quantity/reel; 2,000 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⁾ $\Delta T = 40^{\circ}\text{C}$ (A) Max. (Typ.)
FDSD0518-H-R68M=P3	0.68	± 20	19 (16)	9.0 (11)	6.8 (8.0)
FDSD0518-H-1R0M=P3	1.0	± 20	21 (18)	8.7 (11)	6.1 (7.2)
FDSD0518-H-1R5M=P3	1.5	± 20	29 (24)	6.7 (8.4)	5.3 (6.2)
FDSD0518-H-2R2M=P3	2.2	± 20	40 (33)	5.4 (6.7)	4.3 (5.0)
FDSD0518-H-3R3M=P3	3.3	± 20	58 (51)	4.6 (5.7)	3.4 (4.0)
FDSD0518-H-4R7M=P3	4.7	± 20	73 (64)	3.9 (4.9)	3.0 (3.5)
FDSD0518-H-6R8M=P3	6.8	± 20	106 (88)	2.9 (3.6)	2.6 (3.0)
FDSD0518-H-100M=P3	10	± 20	150 (128)	2.7 (3.4)	2.4 (2.8)

- (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.

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.

- (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。（环境温度为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。

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