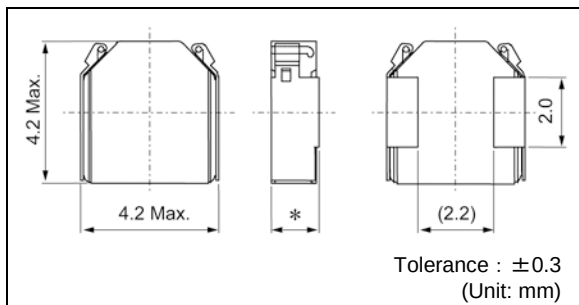
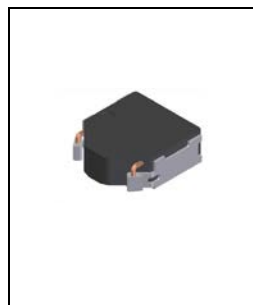


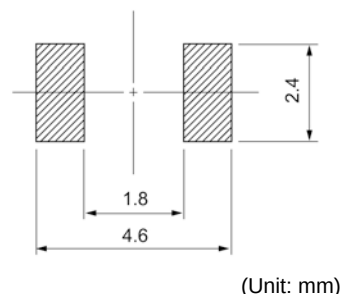
FDSD0412 / FDSD0415 / FDSD0420

Inductance Range: 0.33~4.7μH (FDSD0412), 0.22~4.7μH (FDSD0415),
0.47~10μH (FDSD0420)

Recommended patterns
推荐焊盘尺寸



*: FDSD0412 : 1.2mm Max.
FDSD0415 : 1.5mm Max.
FDSD0420 : 2.0mm Max.



(Unit: mm)

FEATURES 特点

- 4.0 × 4.0mm square and 1.2/ 1.5 /2.0mm 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4.0 × 4.0毫米的平面，最大高度1.2/1.5/2.0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 FDSD0412 (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⁾ $\Delta T = 40^\circ\text{C}$ (A) Max. (Typ.)
FDSD0412-H-R33M=P3	0.33	± 20	19 (16)	7.5 (10)	6.4 (7.5)
FDSD0412-H-R47M=P3	0.47	± 20	23 (19)	6.5 (8.6)	6.0 (7.0)
FDSD0412-H-1R0M=P3	1.0	± 20	44 (37)	4.7 (6.2)	4.3 (5.0)
FDSD0412-H-1R2M=P3	1.2	± 20	48 (40)	4.5 (6.0)	3.7 (4.3)
FDSD0412-H-1R5M=P3	1.5	± 20	64 (53)	4.1 (5.5)	3.3 (3.8)
FDSD0412-H-2R2M=P3	2.2	± 20	84 (70)	3.5 (4.7)	2.8 (3.3)
FDSD0412-H-3R3M=P3	3.3	± 20	122 (102)	2.8 (3.8)	2.2 (2.6)
FDSD0412-H-4R7M=P3	4.7	± 20	161 (136)	2.5 (3.3)	1.9 (2.2)

TYPE FDSD0415 (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⁾ $\Delta T = 40^\circ\text{C}$ (A) Max. (Typ.)
FDSD0415-H-R22M=P3	0.22	± 20	14 (11)	12 (16)	7.7 (9.0)
FDSD0415-H-R47M=P3	0.47	± 20	18 (15)	9.0 (12)	6.1 (7.2)
FDSD0415-H-1R0M=P3	1.0	± 20	41 (34)	5.3 (7.1)	4.5 (5.3)
FDSD0415-H-1R5M=P3	1.5	± 20	47 (39)	5.0 (6.6)	3.7 (4.3)
FDSD0415-H-2R2M=P3	2.2	± 20	65 (54)	4.1 (5.4)	3.1 (3.6)
FDSD0415-H-3R3M=P3	3.3	± 20	95 (79)	3.4 (4.5)	2.6 (3.1)
FDSD0415-H-4R7M=P3	4.7	± 20	120 (100)	2.9 (3.9)	2.1 (2.5)

continued from previous page 接上页

STANDARD PART NUMBERS 标准零件号码

TYPE FDSD0420 (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.)
FDSD0420-H-R47M=P3	0.47	± 20	18 (15)	9.4 (12)	6.8 (8.0)
FDSD0420-H-R68M=P3	0.68	± 20	22 (18)	8.3 (11)	6.5 (7.6)
FDSD0420-H-1R0M=P3	1.0	± 20	29 (24)	6.8 (9.0)	5.1 (6.0)
FDSD0420-H-1R5M=P3	1.5	± 20	36 (30)	5.7 (7.7)	4.3 (5.1)
FDSD0420-H-2R2M=P3	2.2	± 20	47 (39)	4.1 (5.5)	3.6 (4.2)
FDSD0420-H-3R3M=P3	3.3	± 20	71 (59)	3.7 (4.9)	2.9 (3.4)
FDSD0420-H-4R7M=P3	4.7	± 20	83 (69)	3.6 (4.6)	2.7 (3.2)
FDSD0420-H-6R8M=P3	6.8	± 20	150 (125)	2.7 (3.6)	1.9 (2.2)
FDSD0420-H-100M=P3	10	± 20	200 (165)	2.5 (3.3)	1.7 (2.0)

- (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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