

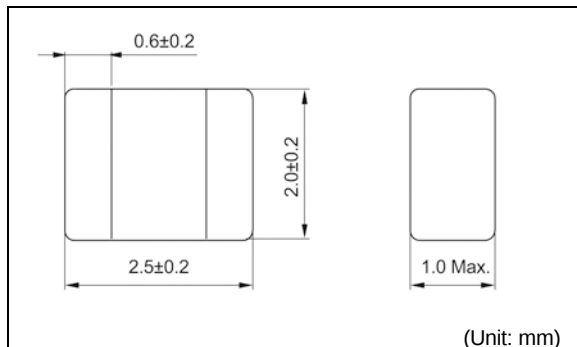
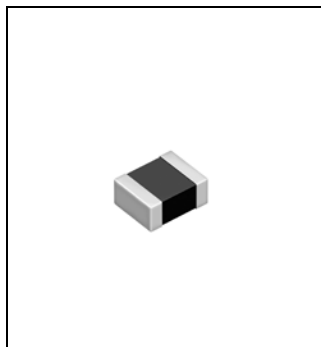
**DFE252010P**

125  
°C

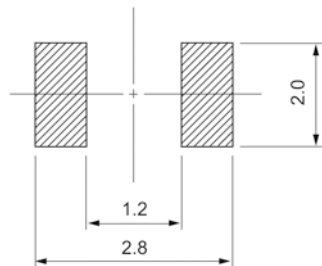
RoHS

REACH

Inductance Range: 0.33~4.7μH



**Recommended patterns**  
推荐焊盘尺寸



(Unit: mm)

## FEATURES 特点

- Miniature size: 2520 footprint (2.5mm×2.0mm) and low profile(1.0mm Max. height)
- The use of magnetic iron powder ensure capability for large current.
- The use of Flat wire for Low DC resistance.
- Magnetically shielded, low audible core noise.
- Reflow solderable.
- Operating temperature : -40~+125°C
- 小型薄型构造(2.5 × 2.0mm、高度1.0mm Max.)
- 使用合金系磁性粉，保证了大电流
- 采用平角线、低直流电阻
- 闭磁路构造、低芯片噪音
- 适合回流焊接
- 使用温度范围：-40~+125°C

## STANDARD PART NUMBERS 标准零件号码

### TYPE DFE252010P (Quantity/reel; 3,000 PCS)

| 零件号码               | 电感值 <sup>(1)</sup>                 | 公差               | 测试频率                    | 最大直流电阻 <sup>(2)</sup>                               | 最大电感值减小电流 <sup>(3)</sup>                                                     | 最大温度上升电流 <sup>(3)</sup>                                                  |
|--------------------|------------------------------------|------------------|-------------------------|-----------------------------------------------------|------------------------------------------------------------------------------|--------------------------------------------------------------------------|
| Part Number        | Inductance <sup>(1)</sup><br>L(μH) | Tolerance<br>(%) | Test Frequency<br>(MHz) | DC Resistance <sup>(2)</sup><br>(mΩ)<br>Max. (Typ.) | Inductance<br>Decrease Current <sup>(3)</sup><br>(A) Max. (Typ.)<br>ΔL/L=30% | Temperature<br>Rise Current <sup>(3)</sup><br>ΔT=40°C<br>(A) Max. (Typ.) |
| DFE252010P-R33M=P2 | 0.33                               | ±20              | 1                       | 29 (22)                                             | 5.7 (6.4)                                                                    | 3.8 (4.4)                                                                |
| DFE252010P-R47M=P2 | 0.47                               | ±20              | 1                       | 35 (27)                                             | 5.0 (5.5)                                                                    | 3.5 (4.1)                                                                |
| DFE252010P-R68M=P2 | 0.68                               | ±20              | 1                       | 48 (40)                                             | 4.1 (4.6)                                                                    | 3.0 (3.5)                                                                |
| DFE252010P-1R0M=P2 | 1.0                                | ±20              | 1                       | 54 (45)                                             | 3.8 (4.2)                                                                    | 2.7 (3.2)                                                                |
| DFE252010P-1R2M=P2 | 1.2                                | ±20              | 1                       | 68 (57)                                             | 3.2 (3.7)                                                                    | 2.4 (2.8)                                                                |
| DFE252010P-1R5M=P2 | 1.5                                | ±20              | 1                       | 82 (68)                                             | 3.0 (3.4)                                                                    | 2.1 (2.5)                                                                |
| DFE252010P-2R2M=P2 | 2.2                                | ±20              | 1                       | 115 (96)                                            | 2.6 (2.9)                                                                    | 1.7 (2.0)                                                                |
| DFE252010P-3R3M=P2 | 3.3                                | ±20              | 1                       | 195 (160)                                           | 2.1 (2.4)                                                                    | 1.4 (1.7)                                                                |
| DFE252010P-4R7M=P2 | 4.7                                | ±20              | 1                       | 270 (220)                                           | 1.7 (1.9)                                                                    | 1.1 (1.3)                                                                |

(1) Inductance is measured with a LCR meter 4284A (Agilent Technologies) or equivalent. Test frequency at 1MHz

(2) DC resistance is measured with 34420A (Agilent Technologies) or 3541(HIOKI). (Reference ambient temperature 20°C)

(3) Maximum allowable DC current is that which causes a 30% inductance reduction from the initial value, coil temperature to rise by 40°C whichever is smaller.  
(Reference ambient temperature 20°C)

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

(2)通过数码万用表34420A (Agilent Technologies)/ 3541(HIOKI)或者相类似的工具测试直流电阻。(环境温度为20°C)

(3)允许最大直流电的范围是以下两者中比较小的一个：从开始值降低30%的电感值，或者线圈温度升高40°C。  
(参考周围环境温度20°C)。