

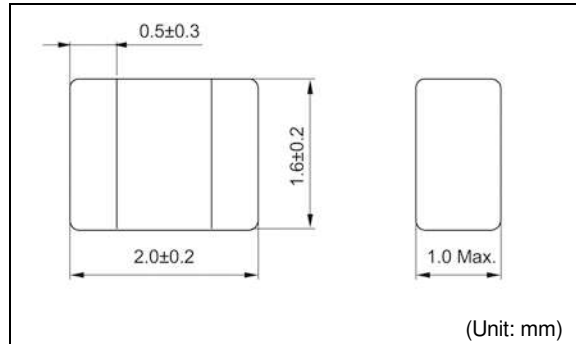
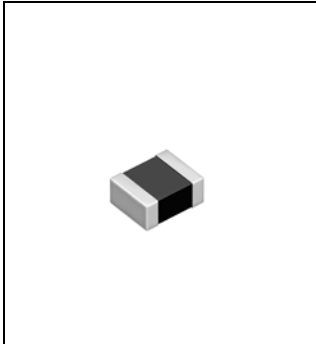
**DFE201610P**

125  
°C

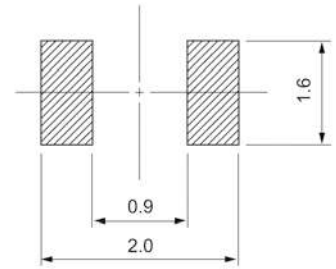
RoHS

REACH

Inductance Range: 0.24~2.2μH



**Recommended patterns**  
推荐焊盘尺寸



(Unit: mm)

**FEATURES 特点**

- Miniature size: 2016 footprint (2.0mm×1.6mm) 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(2.0 x 1.6mm、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 DFE201610P (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 (%) | Test Frequency (MHz) | DC Resistance <sup>(2)</sup><br>(mΩ)<br>Max. (Typ.) | Inductance Decrease Current <sup>(3)</sup><br>(A) Max. (Typ.)<br>ΔL/L=30% | Temperature Rise Current <sup>(3)</sup><br>ΔT=40°C<br>(A) Max. (Typ.) |
| DFE201610P-R24M=P2 | 0.24                               | ±20           | 1                    | 26 (20)   | 5.4 (6.0)   | 3.8 (4.5)   |
| DFE201610P-R33M=P2 | 0.33                               | ±20           | 1                    | 34 (26)   | 4.7 (5.2)   | 3.5 (4.0)   |
| DFE201610P-R47M=P2 | 0.47                               | ±20           | 1                    | 40 (32)   | 4.0 (4.5)   | 3.1 (3.6)   |
| DFE201610P-R68M=P2 | 0.68                               | ±20           | 1                    | 48 (40)   | 3.6 (4.0)   | 2.7 (3.2)   |
| DFE201610P-1R0M=P2 | 1.0                                | ±20           | 1                    | 70 (58)   | 3.1 (3.4)   | 2.2 (2.6)   |
| DFE201610P-1R5M=P2 | 1.5                                | ±20           | 1                    | 110 (92)  | 2.5 (2.8)   | 1.8 (2.1)   |
| DFE201610P-2R2M=P2 | 2.2                                | ±20           | 1                    | 168 (140)   | 2.0 (2.2)   | 1.4 (1.6)   |

(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)。