



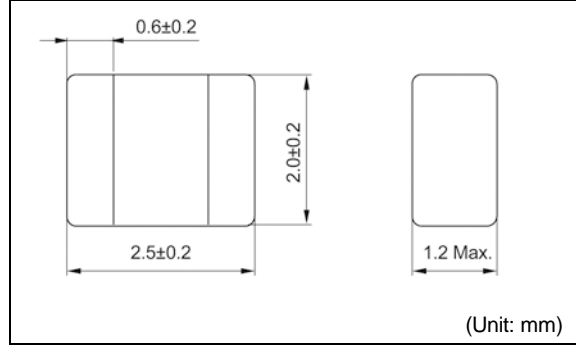
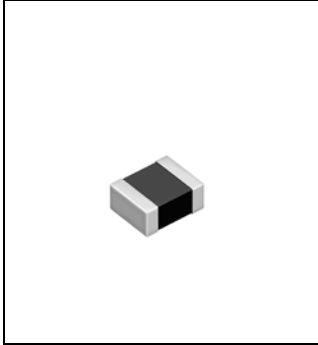
**THE DATASHEET OF
DFE252012P-R68M=P2**



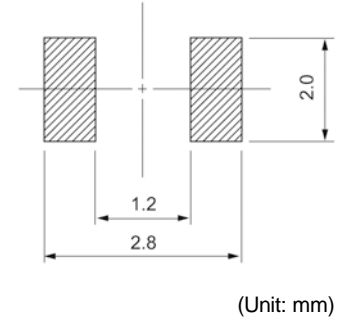
DFE252012P

125°C RoHS REACH

Inductance Range: 0.33~4.7μH



Recommended patterns
推荐焊盘尺寸



FEATURES 特点

- Miniature size: 2520 footprint (2.5mm×2.0mm) and low profile(1.2mm 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 × 2.0 mm、高度1.2mm 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 DFE252012P (Quantity/reel; 3,000 PCS)

| 零件号码 | 电感值 ⁽¹⁾ | 公差 | 测试频率 | 最大直流电阻 ⁽²⁾ | 最大电感值减小电流 ⁽³⁾ | 最大温度上升电流 ⁽³⁾ |
|--------------------|------------------------------------|---------------|----------------------|---|---|---|
| Part Number | Inductance ⁽¹⁾ L(μH) | Tolerance (%) | Test Frequency (MHz) | DC Resistance ⁽²⁾ (mΩ) Max. (Typ.) | Inductance Decrease Current ⁽³⁾ (A) Max. (Typ.) ΔL/L=30% | Temperature Rise Current ⁽³⁾ ΔT=40°C (A) Max. (Typ.) |
| DFE252012P-R33M=P2 | 0.33 | ±20 | 1 | 23 (17) | 6.6 (7.3) | 4.6 (5.4) |
| DFE252012P-R47M=P2 | 0.47 | ±20 | 1 | 27 (21) | 5.7 (6.4) | 4.0 (4.7) |
| DFE252012P-R68M=P2 | 0.68 | ±20 | 1 | 37 (30) | 4.8 (5.3) | 3.5 (4.1) |
| DFE252012P-1R0M=P2 | 1.0 | ±20 | 1 | 42 (35) | 4.3 (4.8) | 3.2 (3.8) |
| DFE252012P-1R5M=P2 | 1.5 | ±20 | 1 | 60 (50) | 3.5 (3.9) | 2.6 (3.0) |
| DFE252012P-2R2M=P2 | 2.2 | ±20 | 1 | 84 (70) | 3.0 (3.4) | 2.2 (2.6) |
| DFE252012P-3R3M=P2 | 3.3 | ±20 | 1 | 140 (115) | 2.3 (2.6) | 1.7 (2.0) |
| DFE252012P-4R7M=P2 | 4.7 | ±20 | 1 | 200 (165) | 2.0 (2.2) | 1.4 (1.7) |

(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)。

Looking for pricing, stock, or lifecycle information?

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- [Murata Electronics North America Information](#)

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