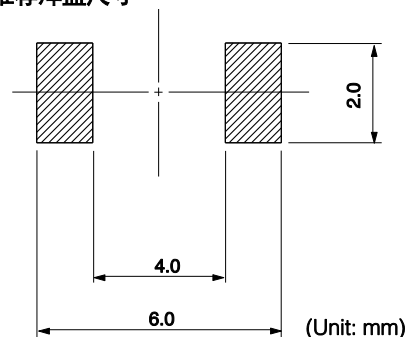
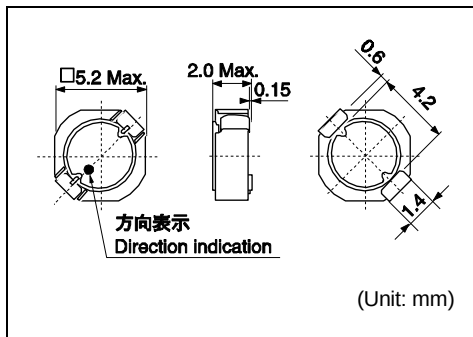


# D52LC

Inductance Range: 1.2~100μH



Recommended patterns  
推荐焊盘尺寸



## FEATURES 特点

- Low profile (5.2mm Max. square, 2.0mm Max. height).
- Magnetically shielded construction and low DC resistance.
- Suitable for large currents.
- Ideal for a variety of DC-DC converter inductor applications.
- 薄型构造（最大5.2毫米的平面，最大高度2.0毫米）
- 磁性屏蔽结构和低直流电阻
- 适合大电流
- 是适用于多种DC-DC转换器电感器的理想选择

## STANDARD PART NUMBERS 标准零件号码

### TYPE D52LC (Quantity/reel; 2,000 PCS)

| 零件号码             | 电感值 <sup>(1)</sup>                | 公差               | 最大直流电阻 <sup>(2)</sup>                            | 最大电感减小电流 <sup>(3)</sup> (典型)                                  |             | 最大温度上升电流 <sup>(3)</sup> (典型)                                          |
|------------------|-----------------------------------|------------------|--------------------------------------------------|---------------------------------------------------------------|-------------|-----------------------------------------------------------------------|
| Part Number      | Inductance <sup>(1)</sup><br>(μH) | Tolerance<br>(%) | DC Resistance <sup>(2)</sup><br>(mΩ) Max. (Typ.) | Inductance Decrease Current <sup>(3)</sup><br>(A) Max. (Typ.) |             | Temperature Rise Current <sup>(3)</sup><br>ΔT=40°C<br>(A) Max. (Typ.) |
| #A914BYW-1R2M=P3 | 1.2                               | ± 20             | 44 (37)                                          | 1.94 (2.59)                                                   | 2.15 (2.88) | 2.44 (2.87)                                                           |
| #A914BYW-2R2M=P3 | 2.2                               | ± 20             | 59 (49)                                          | 1.44 (1.93)                                                   | 1.63 (2.18) | 1.74 (2.06)                                                           |
| #A914BYW-3R5M=P3 | 3.5                               | ± 20             | 73 (61)                                          | 1.19 (1.59)                                                   | 1.34 (1.80) | 1.54 (1.82)                                                           |
| #A914BYW-4R7M=P3 | 4.7                               | ± 20             | 87 (72)                                          | 1.01 (1.35)                                                   | 1.14 (1.52) | 1.30 (1.54)                                                           |
| #A914BYW-6R8M=P3 | 6.8                               | ± 20             | 105 (84)                                         | 0.83 (1.11)                                                   | 0.95 (1.27) | 1.17 (1.38)                                                           |
| #A914BYW-100M=P3 | 10                                | ± 20             | 150 (125)                                        | 0.67 (0.90)                                                   | 0.76 (1.03) | 0.93 (1.10)                                                           |
| #A914BYW-150M=P3 | 15                                | ± 20             | 210 (175)                                        | 0.56 (0.76)                                                   | 0.63 (0.85) | 0.77 (0.91)                                                           |
| #A914BYW-220M=P3 | 22                                | ± 20             | 275 (230)                                        | 0.49 (0.66)                                                   | 0.56 (0.75) | 0.70 (0.83)                                                           |
| #A914BYW-330M=P3 | 33                                | ± 20             | 455 (375)                                        | 0.39 (0.53)                                                   | 0.44 (0.59) | 0.51 (0.61)                                                           |
| #A914BYW-470M=P3 | 47                                | ± 20             | 730 (605)                                        | 0.32 (0.43)                                                   | 0.36 (0.49) | 0.38 (0.45)                                                           |
| #A914BYW-680M=P3 | 68                                | ± 20             | 935 (780)                                        | 0.26 (0.35)                                                   | 0.30 (0.41) | 0.35 (0.42)                                                           |
| #A914BY-101M=P3  | 100                               | ± 20             | 1500 (1250)                                      | 0.20 (0.28)                                                   | 0.23 (0.32) | 0.26 (0.31)                                                           |

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

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