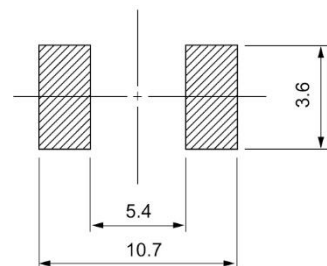
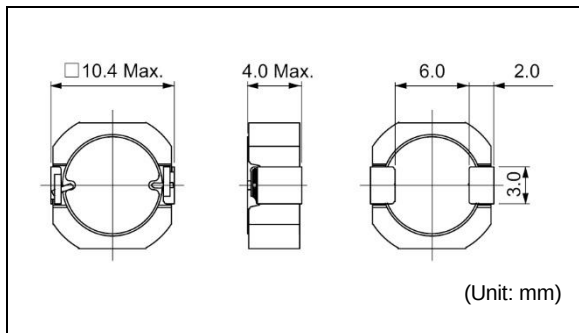


# DS104LC

Inductance Range: 1.0~100μH



Recommended patterns  
推奨パターン図



(Unit: mm)

## FEATURES 特長

- 10.4mm Max. square and 4.0mm Max. height.
- Magnetically shielded construction and low DC resistance.
- Suitable for large current.
- Ideal for DC-DC converter inductor applications.
- 10.4mm角Max.、高さ4.0mm Max.
- 閉磁路構造、低直流抵抗
- 大電流対応
- DC-DCコンバータ用インダクタに最適

## STANDARD PART NUMBERS 標準品一覧

### TYPE DS104LC (Quantity/reel; 500 PCS)

| 品番              | インダクタンス <sup>(1)</sup>            | 許容差              | 直流抵抗 <sup>(2)</sup>                              | 直流重畳許容電流 <sup>(3)</sup>                                                                      | 温度上昇許容電流 <sup>(3)</sup>                                                                     |
|-----------------|-----------------------------------|------------------|--------------------------------------------------|----------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|
| 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.)<br>$\frac{\Delta L}{L} = 35\%$ | Temperature Rise Current <sup>(3)</sup><br>$\Delta T = 40^\circ\text{C}$<br>(A) Max. (Typ.) |
| B1179BS-1R0N=P3 | 1.0                               | ± 30             | 5.7 (4.8)                                        | 13 (17)                                                                                      | 9.5 (11)                                                                                    |
| B1179BS-1R5N=P3 | 1.5                               | ± 30             | 8.1 (6.7)                                        | 11 (14)                                                                                      | 8.2 (9.6)                                                                                   |
| B1179BS-2R2N=P3 | 2.2                               | ± 30             | 9.4 (7.8)                                        | 8.4 (11)                                                                                     | 6.9 (8.1)                                                                                   |
| B1179BS-3R3N=P3 | 3.3                               | ± 30             | 13 (10)                                          | 7.3 (9.7)                                                                                    | 6.0 (7.1)                                                                                   |
| B1179BS-3R8N=P3 | 3.8                               | ± 30             | 16 (12)                                          | 6.4 (8.6)                                                                                    | 5.4 (6.4)                                                                                   |
| B1179BS-5R6N=P3 | 5.6                               | ± 30             | 21 (17)                                          | 5.5 (7.3)                                                                                    | 4.7 (5.5)                                                                                   |
| B1179BS-6R8N=P3 | 6.8                               | ± 30             | 24 (20)                                          | 5.0 (6.7)                                                                                    | 4.1 (4.8)                                                                                   |
| B1179BS-100M=P3 | 10                                | ± 20             | 31 (26)                                          | 4.2 (5.6)                                                                                    | 3.6 (4.3)                                                                                   |
| B1179BS-150M=P3 | 15                                | ± 20             | 56 (46)                                          | 3.3 (4.4)                                                                                    | 2.8 (3.3)                                                                                   |
| B1179BS-220M=P3 | 22                                | ± 20             | 74 (62)                                          | 2.7 (3.6)                                                                                    | 2.3 (2.7)                                                                                   |
| B1179BS-330M=P3 | 33                                | ± 20             | 100 (87)                                         | 2.2 (3.0)                                                                                    | 1.8 (2.1)                                                                                   |
| B1179BS-470M=P3 | 47                                | ± 20             | 140 (120)                                        | 1.9 (2.5)                                                                                    | 1.6 (1.9)                                                                                   |
| B1179BS-680M=P3 | 68                                | ± 20             | 190 (160)                                        | 1.6 (2.1)                                                                                    | 1.3 (1.6)                                                                                   |
| B1179BS-101M=P3 | 100                               | ± 20             | 290 (240)                                        | 1.3 (1.7)                                                                                    | 1.1 (1.3)                                                                                   |

(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 35% inductance reduction from the initial value, or coil temperature to rise by 40°C, whichever is smaller. (Reference ambient temperature: 20°C)

(1) インダクタンスはLCRメータ4284A (Agilent Technologies) または同等品により測定する。  
測定周波数は100kHz。

(2) 直流抵抗は測定器34420A (Agilent Technologies) または3541 (HIOKI) と同等品により測定する。(周囲温度25°C)

(3) 最大許容電流は、直流重畳電流を流した時インダクタンスの値が初期値より35%減少する直流電流値、または直流電流により、コイルの温度が40°C上昇の何れか小さい値。(周囲温度20°Cを基準とする。)