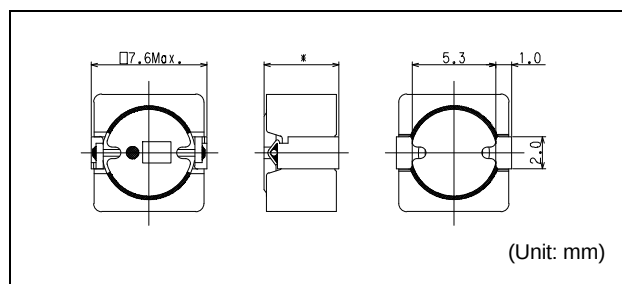
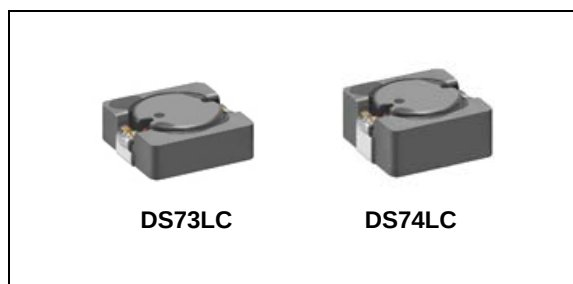


# DS73LC DS74LC

**Inductance Range:** 1.0~220 $\mu$ H (DS73LC ),  
2.4~470 $\mu$ H (DS74LC)

## DIMENSIONS／外形寸法図



Note \*: DS73LC ; 3.0mm Max. height  
DS74LC ; 4.0mm Max. height

## FEATURES／特長

- Low-profile (7.6mm Max. square, 3.0 and 4.0mm Max. height).
- Magnetically shielded construction
- Suitable for large current.
- Ideal for a variety of DC-DC converter inductor applications.
- RoHS compliant.

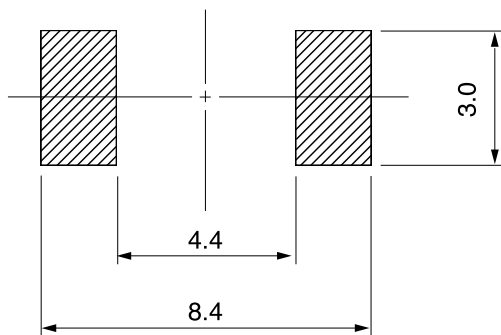
- 低背（7.6mm角Max.、高さ3.0および4.0mm Max.）
- 閉磁路構造
- 大電流対応
- 各種機器のDC-DCコンバータ用インダクタに最適
- RoHS指令対応

## MEASUREMENT CONDITION／測定条件

- (1) Inductance is measured with a LCR meter 4284A (Agilent Technologies) or equivalent.  
Test frequency at 100kHz.
- (2) DC resistance is measured with a Digital Multimeter TR6871 (Advantest) or equivalent.
- (3) Rated DC current is that which causes a 10% 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です。
- (2) 直流抵抗はデジタルマルチメータTR6871（Advantest）または同等品により測定する。
- (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10%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です。  
(周囲温度20°Cを基準とする。)

## Recommended patterns 推奨パターン図



(Unit: mm)

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# SELECTION GUIDE FOR STANDARD COILS

## TYPE DS73LC (Quantity/reel; 1000 PCS)

| 東光品番                   | 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>                                                               |
|------------------------|-----------------------------------|------------------|----------------------------------------------|------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| TOKO<br>Part<br>Number | Inductance <sup>(1)</sup><br>(μH) | Tolerance<br>(%) | DC<br>Resistance <sup>(2)</sup><br>(mΩ) Max. | Inductance<br>Decrease Current <sup>(3)</sup><br>(A) Max.<br>$\frac{\Delta L}{L} \approx 10\%$ | Temperature<br>Rise Current <sup>(3)</sup><br>$\Delta T=40^\circ\text{C}$<br>(A) Max. |
| B1079AS-1R0N           | 1.0                               | ± 30             | 11                                           | 5.25                                                                                           | 6.5                                                                                   |
| B1079AS-1R5N           | 1.5                               | ± 30             | 13                                           | 4.35                                                                                           | 6.00                                                                                  |
| B1079AS-2R0N           | 2.0                               | ± 30             | 19                                           | 3.60                                                                                           | 4.60                                                                                  |
| B1079AS-2R7N           | 2.7                               | ± 30             | 25                                           | 3.15                                                                                           | 3.80                                                                                  |
| B1079AS-3R3N           | 3.3                               | ± 30             | 29                                           | 2.75                                                                                           | 3.70                                                                                  |
| B1079AS-3R9N           | 3.9                               | ± 30             | 32                                           | 2.55                                                                                           | 3.30                                                                                  |
| B1079AS-4R7N           | 4.7                               | ± 30             | 40                                           | 2.30                                                                                           | 3.00                                                                                  |
| B1079AS-6R8N           | 6.8                               | ± 30             | 54                                           | 1.95                                                                                           | 2.30                                                                                  |
| B1079AS-100M           | 10.0                              | ± 20             | 77                                           | 1.60                                                                                           | 2.00                                                                                  |
| B1079AS-150M           | 15.0                              | ± 20             | 114                                          | 1.25                                                                                           | 1.45                                                                                  |
| B1079AS-220M           | 22.0                              | ± 20             | 150                                          | 1.05                                                                                           | 1.35                                                                                  |
| B1079AS-330M           | 33.0                              | ± 20             | 228                                          | 0.90                                                                                           | 1.10                                                                                  |
| B1079AS-470M           | 47.0                              | ± 20             | 300                                          | 0.75                                                                                           | 0.87                                                                                  |
| B1079AS-560M           | 56.0                              | ± 20             | 348                                          | 0.70                                                                                           | 0.80                                                                                  |
| B1079AS-680M           | 68.0                              | ± 20             | 492                                          | 0.62                                                                                           | 0.70                                                                                  |
| B1079AS-101M           | 100.0                             | ± 20             | 696                                          | 0.50                                                                                           | 0.54                                                                                  |
| B1079AS-151M           | 150.0                             | ± 20             | 1188                                         | 0.41                                                                                           | 0.47                                                                                  |
| B1079AS-221M           | 220.0                             | ± 20             | 1512                                         | 0.35                                                                                           | 0.36                                                                                  |

## TYPE DS74LC (Quantity/reel; 1000 PCS)

| 東光品番                   | 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>                                                               |
|------------------------|-----------------------------------|------------------|----------------------------------------------|------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| TOKO<br>Part<br>Number | Inductance <sup>(1)</sup><br>(μH) | Tolerance<br>(%) | DC<br>Resistance <sup>(2)</sup><br>(mΩ) Max. | Inductance<br>Decrease Current <sup>(3)</sup><br>(A) Max.<br>$\frac{\Delta L}{L} \approx 10\%$ | Temperature<br>Rise Current <sup>(3)</sup><br>$\Delta T=40^\circ\text{C}$<br>(A) Max. |
| B1077AS-2R4N           | 2.4                               | ± 30             | 16                                           | 3.8                                                                                            | 4.5                                                                                   |
| B1077AS-3R0N           | 3.0                               | ± 30             | 20                                           | 3.3                                                                                            | 4.1                                                                                   |
| B1077AS-4R7N           | 4.7                               | ± 30             | 34                                           | 2.6                                                                                            | 3.0                                                                                   |
| B1077AS-6R8N           | 6.8                               | ± 30             | 40                                           | 2.3                                                                                            | 2.7                                                                                   |
| B1077AS-100M           | 10                                | ± 20             | 58                                           | 1.8                                                                                            | 2.2                                                                                   |
| B1077AS-150M           | 15                                | ± 20             | 80                                           | 1.5                                                                                            | 2.0                                                                                   |
| B1077AS-220M           | 22                                | ± 20             | 98                                           | 1.2                                                                                            | 1.7                                                                                   |
| B1077AS-330M           | 33                                | ± 20             | 155                                          | 1.0                                                                                            | 1.3                                                                                   |
| B1077AS-470M           | 47                                | ± 20             | 230                                          | 0.86                                                                                           | 1.1                                                                                   |
| B1077AS-680M           | 68                                | ± 20             | 305                                          | 0.71                                                                                           | 0.90                                                                                  |
| B1077AS-101M           | 100                               | ± 20             | 445                                          | 0.59                                                                                           | 0.75                                                                                  |
| B1077AS-151M           | 150                               | ± 20             | 835                                          | 0.46                                                                                           | 0.52                                                                                  |
| B1077AS-221M           | 220                               | ± 20             | 1055                                         | 0.39                                                                                           | 0.48                                                                                  |
| B1077AS-331M           | 330                               | ± 20             | 1520                                         | 0.32                                                                                           | 0.38                                                                                  |
| B1077AS-471M           | 470                               | ± 20             | 2390                                         | 0.26                                                                                           | 0.31                                                                                  |