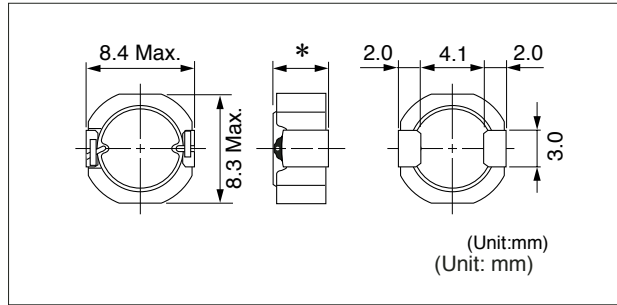


# DS84LC / DS85LC / DS86C

Inductance Range: 1.0~10μH(DS84LC), 1.1~82μH(DS85LC), 1.3~220μH(DS86C)

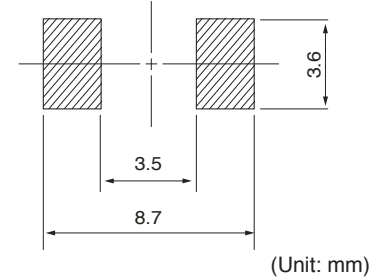
## DIMENSIONS / 外形寸法図



Note (\*) DS84LC; 4.0mm Max. height  
DS85LC; 5.0mm Max. height  
DS86C; 6.8mm Max. height

## Recommended patterns

推奨パターン図



## FEATURES / 特長

- 8.4×8.3mm Max. square, 4.0, 5.0, and 6.8mm Max. height).
- Magnetically shielded construction and low DC resistance.
- Suitable for large currents.
- RoHS compliant.
- 8.4×8.3mm角Max. 高さ4.0, 5.0 および6.8mm Max.)
- 閉磁路構造、低直流抵抗
- 大電流対応
- RoHS指令対応

## MEASUREMENT CONDITION / 測定条件

- Inductance is measured with a LCR meter 4284A\* or equivalent.  
Test frequency at 100kHz
  - DC Resistance is measured with a Digital Multimeter TR6871 (Advantest) or equivalent.
  - Maximum allowable DC current is that which causes a 10% inductance reduction from the initial value, coil temperature to rise by 40°C, whichever is smaller.  
(Reference ambient temperature 20°C)
- \* Agilent Technologies

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

## SELECTION GUIDE FOR STANDARD COILS

### TYPE DS84LC (Quantity/reel; 500 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 Part Number | Inductance <sup>(1)</sup> (μH) | Tolerance (%) | DC Resistance <sup>(2)</sup> (mΩ) Max. | Inductance Decrease Current <sup>(3)</sup> (A) Max. ΔL/L=10% | Temperature Rise Current <sup>(3)</sup> (A) Max. ΔT=40°C |
| B1015AS-1R0N     | 1.0                            | ±30           | 11                                     | 8.0                                                          | 6.9                                                      |
| B1015AS-1R5N     | 1.5                            | ±30           | 14                                     | 6.6                                                          | 6.2                                                      |
| B1015AS-2R2N     | 2.2                            | ±30           | 18                                     | 5.5                                                          | 5.1                                                      |
| B1015AS-3R0N     | 3.0                            | ±30           | 24                                     | 4.8                                                          | 4.3                                                      |
| B1015AS-3R9N     | 3.9                            | ±30           | 33                                     | 4.2                                                          | 3.6                                                      |
| B1015AS-4R7N     | 4.7                            | ±30           | 38                                     | 3.8                                                          | 3.3                                                      |
| B1015AS-5R6N     | 5.6                            | ±30           | 41                                     | 3.5                                                          | 3.1                                                      |
| B1015AS-6R8N     | 6.8                            | ±30           | 51                                     | 3.2                                                          | 2.7                                                      |
| B1015AS-8R2N     | 8.2                            | ±30           | 62                                     | 2.9                                                          | 2.5                                                      |
| B1015AS-100M     | 10.0                           | ±20           | 71                                     | 2.7                                                          | 2.2                                                      |

DS85LC / DS86C

DS85LC : 8.4×8.3mm Max. square, 5.0mm height, Inductance range: 1.1~82μH  
DS86C : 8.4×8.3mm Max. square, 6.8mm height, Inductance range: 1.3~220μH

SELECTION GUIDE FOR STANDARD COILS

| TYPE DS85LC (Quantity/reel; 500 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 Part Number                     | Inductance <sup>(1)</sup> (μH) | Tolerance (%) | DC Resistance <sup>(2)</sup> (mΩ) Max. | Inductance Decrease Current <sup>(3)</sup> (A) Max. $\frac{\Delta L}{L}=10\%$ | Temperature Rise Current <sup>(3)</sup> Δ T=40°C (A) Max. |
| B1000AS-1R1N                         | 1.1                            | ±30           | 12                                     | 8.0                                                                           | 6.5                                                       |
| B1000AS-1R6N                         | 1.6                            | ±30           | 15                                     | 6.6                                                                           | 5.9                                                       |
| B1000AS-2R2N                         | 2.2                            | ±30           | 16                                     | 5.5                                                                           | 5.6                                                       |
| B1000AS-3R0N                         | 3.0                            | ±30           | 18                                     | 4.8                                                                           | 5.1                                                       |
| B1000AS-3R9N                         | 3.9                            | ±30           | 21                                     | 4.3                                                                           | 4.8                                                       |
| B1000AS-4R7N                         | 4.7                            | ±30           | 22                                     | 3.8                                                                           | 4.6                                                       |
| B1000AS-5R6N                         | 5.6                            | ±30           | 29                                     | 3.5                                                                           | 3.9                                                       |
| B1000AS-6R8N                         | 6.8                            | ±30           | 38                                     | 3.1                                                                           | 3.4                                                       |
| B1000AS-8R2N                         | 8.2                            | ±30           | 41                                     | 2.7                                                                           | 3.2                                                       |
| B1000AS-100M                         | 10.0                           | ±20           | 51                                     | 2.5                                                                           | 2.9                                                       |
| B1000AS-120M                         | 12.0                           | ±20           | 60                                     | 2.3                                                                           | 2.6                                                       |
| B1000AS-150M                         | 15.0                           | ±20           | 77                                     | 2.1                                                                           | 2.2                                                       |
| B1000AS-180M                         | 18.0                           | ±20           | 100                                    | 1.9                                                                           | 1.9                                                       |
| B1000AS-220M                         | 22.0                           | ±20           | 115                                    | 1.7                                                                           | 1.8                                                       |
| B1000AS-270M                         | 27.0                           | ±20           | 130                                    | 1.6                                                                           | 1.7                                                       |
| B1000AS-330M                         | 33.0                           | ±20           | 145                                    | 1.4                                                                           | 1.6                                                       |
| B1000AS-390M                         | 39.0                           | ±20           | 160                                    | 1.3                                                                           | 1.5                                                       |
| B1000AS-470M                         | 47.0                           | ±20           | 170                                    | 1.2                                                                           | 1.4                                                       |
| B1000AS-560M                         | 56.0                           | ±20           | 195                                    | 1.1                                                                           | 1.4                                                       |
| B1000AS-680M                         | 68.0                           | ±20           | 235                                    | 0.96                                                                          | 1.2                                                       |
| B1000AS-820M                         | 82.0                           | ±20           | 325                                    | 0.87                                                                          | 1.0                                                       |

| TYPE DS86C (Quantity/reel; 500 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 Part Number                    | Inductance <sup>(1)</sup> (μH) | Tolerance (%) | DC Resistance <sup>(2)</sup> (mΩ) Max. | Inductance Decrease Current <sup>(3)</sup> (A) Max. $\frac{\Delta L}{L}=10\%$ | Temperature Rise Current <sup>(3)</sup> Δ T=40°C (A) Max. |
| B992AS-1R3N                         | 1.3                            | ±30           | 14                                     | 8.3                                                                           | 6.1                                                       |
| B992AS-2R0N                         | 2.0                            | ±30           | 15                                     | 6.8                                                                           | 6.0                                                       |
| B992AS-2R7N                         | 2.7                            | ±30           | 17                                     | 5.9                                                                           | 5.5                                                       |
| B992AS-3R3N                         | 3.3                            | ±30           | 21                                     | 5.2                                                                           | 4.8                                                       |
| B992AS-4R3N                         | 4.3                            | ±30           | 22                                     | 4.6                                                                           | 4.8                                                       |
| B992AS-5R6N                         | 5.6                            | ±30           | 26                                     | 4.1                                                                           | 4.3                                                       |
| B992AS-6R8N                         | 6.8                            | ±30           | 28                                     | 3.8                                                                           | 4.1                                                       |
| B992AS-8R2N                         | 8.2                            | ±30           | 30                                     | 3.4                                                                           | 3.9                                                       |
| B992AS-100M                         | 10.0                           | ±20           | 36                                     | 2.9                                                                           | 3.6                                                       |
| B992AS-150M                         | 15.0                           | ±20           | 41                                     | 2.6                                                                           | 3.3                                                       |
| B992AS-220M                         | 22.0                           | ±20           | 74                                     | 2.0                                                                           | 2.5                                                       |
| B992AS-330M                         | 33.0                           | ±20           | 120                                    | 1.6                                                                           | 1.9                                                       |
| B992AS-470M                         | 47.0                           | ±20           | 150                                    | 1.4                                                                           | 1.7                                                       |
| B992AS-680M                         | 68.0                           | ±20           | 210                                    | 1.1                                                                           | 1.4                                                       |
| B992AS-101M                         | 100.0                          | ±20           | 310                                    | 0.98                                                                          | 1.1                                                       |
| B992AS-151M                         | 150.0                          | ±20           | 400                                    | 0.75                                                                          | 0.94                                                      |
| B992AS-221M                         | 220.0                          | ±20           | 560                                    | 0.65                                                                          | 0.80                                                      |