

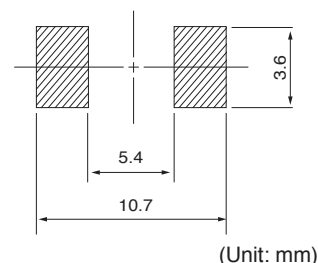
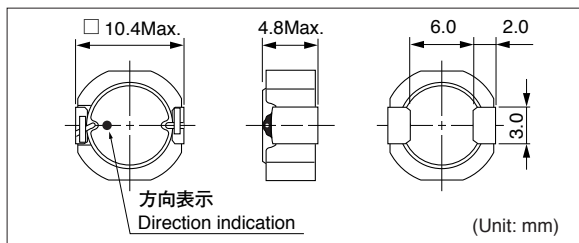
## ■ DS104C2 ■

Inductance Range: 1.1~120μH

## DIMENSIONS / 外形寸法図

## Recommended patterns

推奨パターン図



## FEATURES / 特長

- 10.4mm Max. square and 4.8mm Max. height.
- Magnetically shielded construction and low DC resistance.
- Suitable for large current.
- Ideal for DC-DC converter inductor applications in hand held personal computer etc.
- RoHS compliant.
- 10.4mm角Max.、高さ4.8mm Max.
- 閉磁路構造、低直流抵抗
- 大電流対応
- ノート型パソコンなどのDC-DCコンバータ用インダクタに最適
- RoHS指令対応

## SELECTION GUIDE FOR STANDARD COILS

## TYPE DS104C2 (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> ΔT=40°C (A) Max. |
| #B952AS-1R1N     | 1.1                            | ± 30          | 11                                     | 11.7                                                                          | 6.0                                                      |
| #B952AS-1R8N     | 1.8                            | ± 30          | 14                                     | 8.7                                                                           | 5.4                                                      |
| #B952AS-2R7N     | 2.7                            | ± 30          | 16                                     | 7.3                                                                           | 4.9                                                      |
| #B952AS-3R9N     | 3.9                            | ± 30          | 18                                     | 5.8                                                                           | 4.6                                                      |
| #B952AS-5R1N     | 5.1                            | ± 30          | 26                                     | 4.9                                                                           | 3.8                                                      |
| #B952AS-6R8N     | 6.8                            | ± 30          | 35                                     | 4.5                                                                           | 3.1                                                      |
| #B952AS-8R2N     | 8.2                            | ± 30          | 40                                     | 4.1                                                                           | 2.9                                                      |
| #B952AS-100M     | 10.0                           | ± 20          | 44                                     | 3.6                                                                           | 2.7                                                      |
| #B952AS-120M     | 12.0                           | ± 20          | 51                                     | 3.3                                                                           | 2.5                                                      |
| #B952AS-150M     | 15.0                           | ± 20          | 62                                     | 3.1                                                                           | 2.3                                                      |
| #B952AS-180M     | 18.0                           | ± 20          | 79                                     | 2.7                                                                           | 2.0                                                      |
| #B952AS-220M     | 22.0                           | ± 20          | 87                                     | 2.4                                                                           | 1.9                                                      |
| #B952AS-270M     | 27.0                           | ± 20          | 100                                    | 2.2                                                                           | 1.8                                                      |
| #B952AS-330M     | 33.0                           | ± 20          | 125                                    | 2.0                                                                           | 1.6                                                      |
| #B952AS-390M     | 39.0                           | ± 20          | 150                                    | 1.8                                                                           | 1.4                                                      |
| #B952AS-470M     | 47.0                           | ± 20          | 175                                    | 1.7                                                                           | 1.3                                                      |
| #B952AS-560M     | 56.0                           | ± 20          | 195                                    | 1.5                                                                           | 1.2                                                      |
| #B952AS-680M     | 68.0                           | ± 20          | 240                                    | 1.3                                                                           | 1.1                                                      |
| #B952AS-820M     | 82.0                           | ± 20          | 295                                    | 1.2                                                                           | 1.0                                                      |
| #B952AS-101M     | 100.0                          | ± 20          | 380                                    | 1.1                                                                           | 0.90                                                     |
| #B952AS-121M     | 120.0                          | ± 20          | 460                                    | 0.97                                                                          | 0.80                                                     |

- (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) Maximum allowable 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℃上昇の何れか小さい値です。(周囲温度20℃を基準とする。)