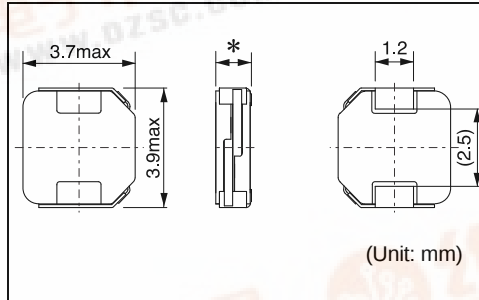


# DE3512C/DE3518C

Inductance Range: 0.68~22μH (DE3512C), 0.56~22μH (DE3518C)

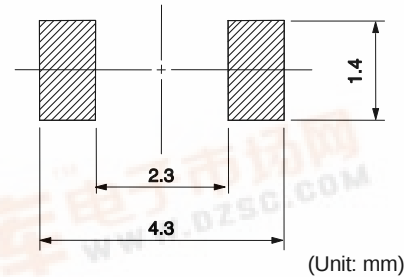
## DIMENSIONS / 外形寸法圖



\*DE3512C: 1.2mm Max.  
DE3518C: 1.8mm Max.

## Recommended patterns

### 推奨パターン圖



## FEATURES / 特長

- Low profile (3.5 × 3.7mm square, 1.2 and 1.8mm Max. height).
- Magnetically shielded construction and low DC resistance.
- Ideal for a variety of DC-DC converter inductor applications. (DVC,DSC,Cellular phone,PDA)
- RoHS compliant.
- 小型薄形構造(3.5 × 3.7mm角, 高さ1.2および1.8mm Max.)
- 閉磁路構造、低直流抵抗
- 各種機器のDC-DCコンバータ用インダクタに最適 (DVC,DSC,Cellular phone,PDA)
- RoHS指令対応

## SELECTION GUIDE FOR STANDARD COILS

### TYPE DE3512C (Magnetically Shielded) 閉磁路タイプ (Quantity/reel; 2,000 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. (Typ.) | Inductance Decrease Current <sup>(3)</sup> (A) Max. (Typ.)<br>$\frac{\Delta L}{L} = 30\%$ | Temperature Rise Current <sup>(3)</sup> (A) Max. (Typ.)<br>$\Delta T = 40^\circ\text{C}$ |
| 1094AS-R68N      | 0.68                           | ± 30          | 36 (30)                                       | 2.10 (2.80)                                                                               | 2.70 (3.20)                                                                              |
| 1094AS-1R0N      | 1.0                            | ± 30          | 46 (38)                                       | 1.80 (2.40)                                                                               | 2.40 (2.90)                                                                              |
| 1094AS-1R5N      | 1.5                            | ± 30          | 54 (45)                                       | 1.50 (2.00)                                                                               | 2.20 (2.60)                                                                              |
| 1094AS-2R0M      | 2.0                            | ± 20          | 64 (53)                                       | 1.30 (1.80)                                                                               | 2.00 (2.40)                                                                              |
| 1094AS-2R7M      | 2.7                            | ± 20          | 72 (60)                                       | 1.20 (1.60)                                                                               | 1.90 (2.20)                                                                              |
| 1094AS-3R3M      | 3.3                            | ± 20          | 78 (65)                                       | 1.00 (1.40)                                                                               | 1.80 (2.10)                                                                              |
| 1094AS-4R7M      | 4.7                            | ± 20          | 100 (83)                                      | 0.85 (1.20)                                                                               | 1.60 (1.90)                                                                              |
| 1094AS-6R8M      | 6.8                            | ± 20          | 138 (115)                                     | 0.69 (0.93)                                                                               | 1.30 (1.60)                                                                              |
| 1094AS-100M      | 10.0                           | ± 20          | 216 (180)                                     | 0.57 (0.76)                                                                               | 1.00 (1.20)                                                                              |
| 1094AS-120M      | 12.0                           | ± 20          | 276 (230)                                     | 0.52 (0.69)                                                                               | 0.89 (1.00)                                                                              |
| 1094AS-150M      | 15.0                           | ± 20          | 354 (295)                                     | 0.47 (0.62)                                                                               | 0.75 (0.88)                                                                              |
| 1094AS-220M      | 22.0                           | ± 20          | 468 (390)                                     | 0.37 (0.50)                                                                               | 0.65 (0.77)                                                                              |

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SELECTION GUIDE FOR STANDARD COILS

| TYPE DE3518C (Magnetically Shielded)閉磁路タイプ(Quantity/reel; 2,000 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. (Typ.) | Inductance<br>Decrease Current <sup>(3)</sup><br>(A) Max. (Typ.)<br>$\frac{\Delta L}{L} \approx 30\%$ | Temperature<br>Rise Current <sup>(3)</sup><br>$\Delta T=40^{\circ}\text{C}$<br>(A) Max. (Typ.) |
| 1127AS-R56N                                                          | 0.56                              | ± 30             | 29 (24)                                             | 3.30 (4.40)                                                                                           | 3.40 (4.00)                                                                                    |
| 1127AS-1R2N                                                          | 1.2                               | ± 30             | 36 (30)                                             | 2.40 (3.20)                                                                                           | 2.90 (3.40)                                                                                    |
| 1127AS-1R7N                                                          | 1.7                               | ± 30             | 42 (35)                                             | 2.10 (2.75)                                                                                           | 2.70 (3.20)                                                                                    |
| 1127AS-2R2M                                                          | 2.2                               | ± 20             | 48 (40)                                             | 1.90 (2.55)                                                                                           | 2.55 (3.00)                                                                                    |
| 1127AS-2R7M                                                          | 2.7                               | ± 20             | 54 (45)                                             | 1.70 (2.30)                                                                                           | 2.40 (2.85)                                                                                    |
| 1127AS-3R3M                                                          | 3.3                               | ± 20             | 60 (50)                                             | 1.60 (2.10)                                                                                           | 2.25 (2.70)                                                                                    |
| 1127AS-4R7M                                                          | 4.7                               | ± 20             | 72 (60)                                             | 1.35 (1.75)                                                                                           | 2.00 (2.45)                                                                                    |
| 1127AS-6R4M                                                          | 6.4                               | ± 20             | 102 (85)                                            | 1.15 (1.50)                                                                                           | 1.65 (2.00)                                                                                    |
| 1127AS-100M                                                          | 10.0                              | ± 20             | 174 (145)                                           | 0.90 (1.20)                                                                                           | 1.25 (1.50)                                                                                    |
| 1127AS-120M                                                          | 12.0                              | ± 20             | 186 (155)                                           | 0.85 (1.15)                                                                                           | 1.20 (1.45)                                                                                    |
| 1127AS-150M                                                          | 15.0                              | ± 20             | 222 (185)                                           | 0.80 (1.05)                                                                                           | 1.10 (1.30)                                                                                    |
| 1127AS-220M                                                          | 22.0                              | ± 20             | 342 (285)                                           | 0.65 (0.84)                                                                                           | 0.88 (1.05)                                                                                    |

- (1) Inductance is measured with a LCR meter 4284A\* 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 30% inductance reduction from the initial value, coil temperature to rise by 40 , whichever is smaller.( Reference ambient temperature 20 )

\* Agilent Technologies

- (1) 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。
- (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30%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。 )

\* Agilent Technologies