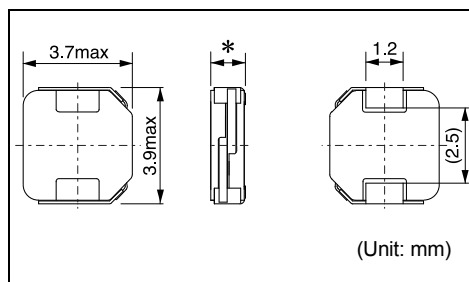
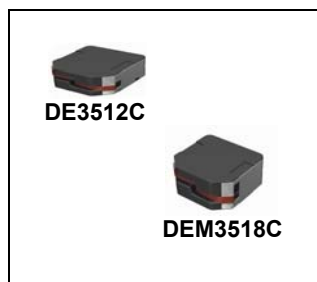


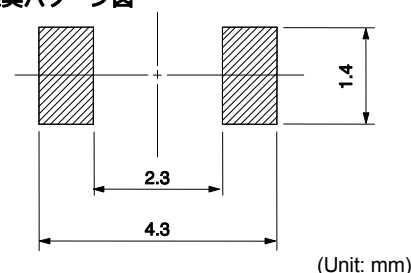
# DE3512C/DEM3518C

Inductance Range: 0.68~22μH (DE3512C), 0.56~22μH (DEM3518C)



\*DE3512C: 1.2mm Max.  
DEM3518C: 1.8mm Max.

## Recommended patterns 推奨パターン図



(Unit: mm)

## 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

## TOKO STANDARD PART NUMBERS 東光 標準品一覧

### 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>                           | 直流電圧許容電流 <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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### TOKO STANDARD PART NUMBERS 東光 標準品一覧

#### TYPE DEM3518C (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><br>(μH) | Tolerance (%) | DC Resistance <sup>(2)</sup><br>(mΩ) Max. (Typ.) | Inductance Decrease Current <sup>(3)</sup><br>(A) Max. (Typ.)<br>$\frac{\Delta L}{L} = 30\%$ | Temperature Rise Current <sup>(3)</sup><br>$\Delta T = 40^\circ\text{C}$<br>(A) Max. (Typ.) |
| 1231AS-H-R56N    | 0.56                              | ± 30          | 29 (24)                                          | 3.30 (4.40)                                                                                  | 3.40 (4.00)                                                                                 |
| 1231AS-H-1R2N    | 1.2                               | ± 30          | 36 (30)                                          | 2.40 (3.20)                                                                                  | 2.90 (3.40)                                                                                 |
| 1231AS-H-1R5N    | 1.5                               | ± 30          | 42 (35)                                          | 2.10 (2.75)                                                                                  | 2.70 (3.20)                                                                                 |
| 1231AS-H-2R2M    | 2.2                               | ± 20          | 48 (40)                                          | 1.90 (2.55)                                                                                  | 2.55 (3.00)                                                                                 |
| 1231AS-H-3R3M    | 3.3                               | ± 20          | 60 (50)                                          | 1.60 (2.10)                                                                                  | 2.25 (2.70)                                                                                 |
| 1231AS-H-4R7M    | 4.7                               | ± 20          | 72 (60)                                          | 1.35 (1.75)                                                                                  | 2.00 (2.45)                                                                                 |
| 1231AS-H-6R4M    | 6.4                               | ± 20          | 102 (85)                                         | 1.15 (1.50)                                                                                  | 1.65 (2.00)                                                                                 |
| 1231AS-H-100M    | 10.0                              | ± 20          | 174 (145)                                        | 0.90 (1.20)                                                                                  | 1.25 (1.50)                                                                                 |
| 1231AS-H-120M    | 12.0                              | ± 20          | 186 (155)                                        | 0.85 (1.15)                                                                                  | 1.20 (1.45)                                                                                 |
| 1231AS-H-150M    | 15.0                              | ± 20          | 222 (185)                                        | 0.80 (1.05)                                                                                  | 1.10 (1.30)                                                                                 |
| 1231AS-H-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。
- (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。(周囲温度20 を基準とする。)

\* Agilent Technologies