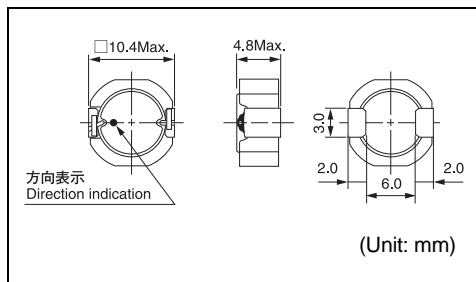


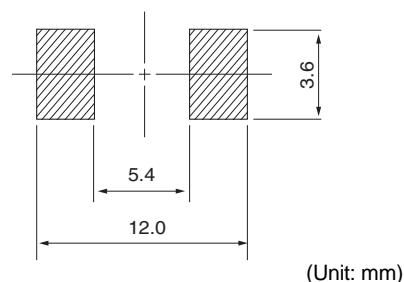
DSH104C

Inductance Range: 1.2~220μH

DIMENSIONS / 外形寸法図



Recommended patterns 推奨パターン図



FEATURES / 特長

- High reliability for vehicle application.
- Operating temperature range : -55°C~+125°C
- 10.4mm Max. square, 4.8mm Max. height.
- Magnetically shielded construction and low DC resistance.
- Suitable for large currents.
- Ideal for a variety of DC-DC converter inductor applications.
- RoHS compliant.
- 車載機器向け信頼性向上品
- 使用温度範囲：-55°C~+125°C
- 10.4mm角Max. 高さ4.8mm Max.
- 閉磁路構造、低直流抵抗
- 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

SELECTION GUIDE FOR STANDARD COILS

TYPE DSH104C (With Ferrite Shield) 閉磁路タイプ(リングコア有り) (Quantity/reel; 500 PCS)

| 東光品番 | インダクタンス ⁽¹⁾ | 許容差 | 直流抵抗 ⁽²⁾ | 直流重畳許容電流 ⁽³⁾ | 温度上昇許容電流 ⁽³⁾ |
|------------------|----------------------------------|---------------|----------------------------------------|---------------------------------------------------------------------------------|----------------------------------------------------------|
| TOKO Part Number | Inductance ⁽¹⁾ L (μH) | Tolerance (%) | DC Resistance ⁽²⁾ (mΩ) Max. | Inductance Decrease Current ⁽³⁾ (A) Max. $\frac{\Delta L}{L} = 30\%$ | Temperature Rise Current ⁽³⁾ ΔT=20°C (A) Max. |
| A1008AYW-1R2N | 1.2 | ± 30 | 12 | 8.80 | 4.80 |
| A1008AYW-1R8N | 1.8 | ± 30 | 15 | 7.10 | 4.10 |
| A1008AYW-2R7N | 2.7 | ± 30 | 17 | 5.90 | 3.80 |
| A1008AYW-3R6N | 3.6 | ± 30 | 20 | 5.10 | 3.50 |
| A1008AYW-4R7N | 4.7 | ± 30 | 27 | 4.40 | 2.90 |
| A1008AYW-6R2N | 6.2 | ± 30 | 36 | 3.90 | 2.50 |
| A1008AYW-100M | 10.0 | ± 20 | 47 | 3.20 | 2.10 |
| A1008AYW-150M | 15.0 | ± 20 | 75 | 2.40 | 1.60 |
| A1008AYW-220M | 22.0 | ± 20 | 97 | 2.10 | 1.40 |
| A1008AYW-330M | 33.0 | ± 20 | 135 | 1.70 | 1.10 |
| A1008AYW-470M | 47.0 | ± 20 | 195 | 1.40 | 0.92 |
| A1008AYW-680M | 68.0 | ± 20 | 280 | 1.20 | 0.76 |
| A1008AYW-101M | 100.0 | ± 20 | 400 | 0.97 | 0.60 |
| A1008AYW-151M | 150.0 | ± 20 | 720 | 0.81 | 0.44 |
| A1008AYW-221M | 220.0 | ± 20 | 1010 | 0.66 | 0.37 |

- (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 inductance decrease current, or temperature rise current, whichever is smaller.
- Inductance decrease current : The inductance value decreases 30% by the excitation of DC current. (reference ambient temperature 125°C)
 - Temperature rise current : The temperature rises 20°C by excitation of DC current. (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：直流重畳許容電流値と温度上昇許容電流値の何れか小さい値です。
- 直流重畳許容電流：直流重畳特性においてインダクタンス値が30%低下した時の電流値。(周囲温度125°C)
 - 温度上昇許容電流：直流を流した時の巻線温度上昇が20°Cに達する電流値。(周囲温度20°C)