

# TOKO DEM4518C SAMPLE KIT DATA SHEET

## DEM4518C



## Features

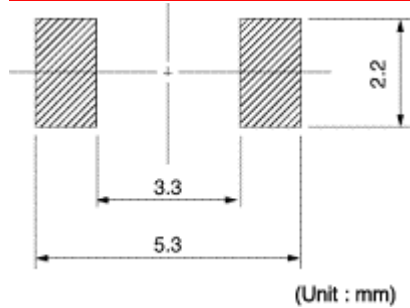
- Low profile (4.5x4.7mm square, 1.8mm Max. height).
- Magnetically shielded construction and low DC resistance.
- Ideal for a variety of DC-DC converter inductor applications.
- RoHS compliant.
- Halogen free.

## Electrical Characteristics

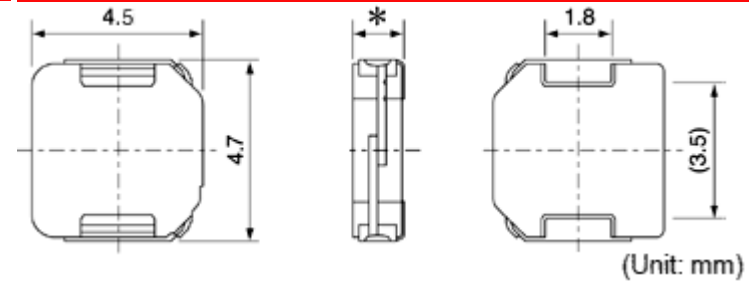
Inductance range

DEM4518C : 1.2~22 $\mu$ H

## Recommended pattern



## Dimensions



\* DEM4518C : 1.8mm Max.

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| <u>TOKO<br/>PART NUMBER</u> | <u>INDUCTANCE<br/>(<math>\mu</math>H)</u> | <u>TOLERANCE<br/>(%)</u> | <u>DC RESISTANCE (m<math>\Omega</math>)<br/>Max. (Typ.)</u> | <u>Temperature<br/>Rise Current<sup>(3)</sup><br/>T=40C<br/>(A) Max. (Typ.)</u> | <u>QUANTITY PER<br/>SAMPLE<br/>BOX</u> |
|-----------------------------|-------------------------------------------|--------------------------|-------------------------------------------------------------|---------------------------------------------------------------------------------|----------------------------------------|
| 1235AS-H-1R2N               | 1.2                                       | +/-30                    | 47 (39)                                                     | 2.90 (3.40)                                                                     | 5                                      |
| 1235AS-H-1R8N               | 1.8                                       | +/-30                    | 56 (47)                                                     | 2.70 (3.20)                                                                     | 5                                      |
| 1235AS-H-2R4M               | 2.4                                       | +/-20                    | 65 (54)                                                     | 2.30 (2.70)                                                                     | 5                                      |
| 1235AS-H-3R3M               | 3.3                                       | +/-20                    | 74 (62)                                                     | 2.10 (2.50)                                                                     | 5                                      |
| 1235AS-H-4R3M               | 4.3                                       | +/-20                    | 84 (70)                                                     | 2.00 (2.40)                                                                     | 5                                      |
| 1235AS-H-6R8M               | 6.8                                       | +/-20                    | 106 (88)                                                    | 1.90 (2.20)                                                                     | 5                                      |
| 1235AS-H-100M               | 10.0                                      | +/-20                    | 132 (110)                                                   | 1.70 (2.00)                                                                     | 5                                      |
| 1235AS-H-150M               | 15.0                                      | +/-20                    | 192 (160)                                                   | 1.10 (1.30)                                                                     | 5                                      |
| 1235AS-H-220M               | 22.0                                      | +/-20                    | 306 (255)                                                   | 1.00 (1.20)                                                                     | 5                                      |

1) Inductance is measured with a LCR meter 4284A (Agilent Technologies) or equivalent. Test frequency at 100kHz

(2) DC resistance is measured with 34420A (Agilent Technologies) or 3541(HIOKI). (Reference ambient temperature 25°C)

(3) Maximum allowable DC current is that which causes a 30% inductance reduction from the initial value, or coil temperature to rise by 40°C, whichever is smaller. (Reference ambient temperature 20°C)