

# SURFACE MOUNT FIXED INDUCTOR

#### **TYPE DS85LC**

Inductance Range: 1.1 - 82µH Frequency Range: 0.1 - 1MHz

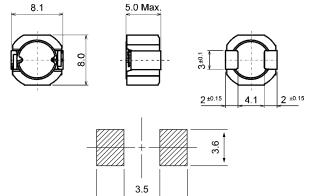
# **Description**

The TOKO DS85LC Series of magnetically shielded surface mount fixed inductors are designed for general purpose DC-DC converter applications in consumer electronics platforms.

#### **Features**

- 8.4mm x 8.3mm footprint
- 5.0mm maximum height
- Magnetically shielded
- Reflow solderable
- Packaged on 500 piece reels
- Lead-free terminations

### **Dimensions & Recommended Patterns:**



8.7

# Tolerance: ±0.3 Unit: mm

## STANDARD PARTS SELECTION GUIDE

- (1) Inductance is measured by LCR-meter 4284A (Agilent) or equivalent.
- (2) DC resistance is measured by 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).

#### TYPE DS85LC токо DC (2) Inductance (1) Tolerance Inductance (3) Temperature (3) Part (µH) (%) Resistance **Decrease Current** Rise Current +40°C ΔT Number ( $\Omega$ ) max. -10% (A) max. (A) max. B1000AS-1R1N=P3 0.012 8.0 6.5 1.1 ±30 B1000AS-1R6N=P3 1.6 ±30 0.015 6.6 5.9 B1000AS-2R2N=P3 2.2 ±30 0.016 5.5 5.6 B1000AS-3R0N=P3 0.018 4.8 3.0 ±30 5.1 B1000AS-3R9N=P3 0.021 3.9 ±30 4.3 4.8 B1000AS-4R7N=P3 4.7 ±30 0.022 3.8 4.6 B1000AS-5R6N=P3 5.6 ±30 0.029 3.5 3.9 B1000AS-6R8N=P3 6.8 ±30 0.038 3.1 3.4 3.2 B1000AS-8R2N=P3 +30 0.041 27 82 B1000AS-100M=P3 0.051 10 ±20 2.5 2.9 B1000AS-120M=P3 12 +20 0.060 2.3 2.6 B1000AS-150M=P3 15 ±20 0.077 2.1 2.2 B1000AS-180M=P3 18 ±20 0.100 1.9 1.9 B1000AS-220M=P3 22 0.115 1.7 +20 1.8 B1000AS-270M=P3 0.130 27 ±20 1.6 1.7 B1000AS-330M=P3 0.145 33 ±20 1.4 1.6 B1000AS-390M=P3 39 ±20 0.160 1.3 1.5 B1000AS-470M=P3 47 ±20 0.170 1.2 1.4 B1000AS-560M=P3 ±20 0.195 56 1.1 1 4 B1000AS-680M=P3 68 ±20 0.235 0.96 1.2

Note: =P3 is added to each part number to indicate tape and reel packaging.

82



B1000AS-820M=P3

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0.325



#### TOKO America, Inc.

±20

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0.87

1.0