

Delta Part No . : SDER041T type

Part Name : Sealed Choke

## Sealed Choke Coil SDER041T type

### ■ Features

Low profile : 4.0mm x 4.0mm x 1.0mm

Low coil resistance with large currents.

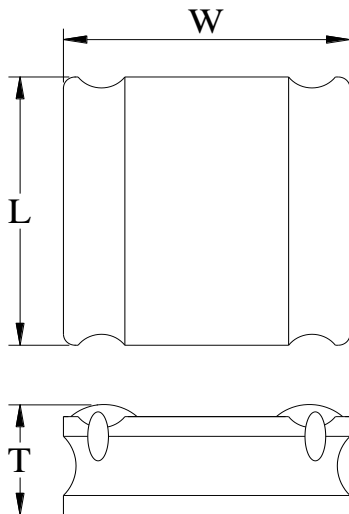
High magnetic shield construction should actualize high resolution for EMC protection.

100% lead (Pb) free meet RoHS standard

### ■ Application

Cellular phones, LCD displays, HDDs, DVCs, DSCs, PDAs etc..

### ■ Outline Dimensions



Code	Dimensions (mm)
L	4.0 ± 0.2
W	4.0 ± 0.2
T	1.0 Max

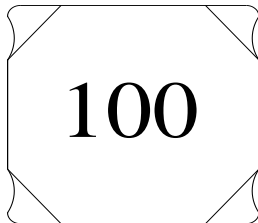
Unit : mm

Note: This graph is in regard to outline dimensions spec. For outer appearance, please refer to actual product.

## ■ Marking

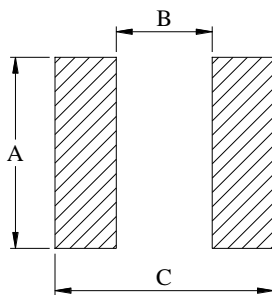
The inductor is marked with a 3-digit code

Example --  $10\mu\text{H}$  → 100



## ■ Recommend Land Pattern Dimensions

The customer shall determine the land dimensions shown below after confirming and safety.



A	3.6
B	1.8
C	4.1

Unit : mm



## ■ Specifications

Part Number	L0 Inductance ( $\mu$ H ) @ (0A)	R <sub>dc</sub> ( m $\Omega$ )		Heat Rating Current DC Amps. Idc ( A )		Saturation Current DC Amps. Isat ( A )	
		Typical	Maximum	Typical	Maximum	Typical	Maximum
SDER041T-4R7MS	4.7	130	156	1.40	1.26	1.25	1.1
SDER041T-6R8MS	6.8	196	235	1.30	1.17	1.20	1.08
SDER041T-100MS	10.0	291	350	1.10	0.99	1.0	0.9

\* : If you require another part number please contact with us.

\*\* : Inductance Tolerance  $\pm$  20%

Note 1. : All test data is referenced to 25 $^{\circ}$ C ambient.

Note 2. : Test Condition:100KHz, 1.0Vrms

Note 3. : Idc : DC current (A) that will cause an approximate  $\Delta$ T of 40 $^{\circ}$ C

Note 4. : Isat : DC current (A) that will cause L0 to drop approximately 30%

Note 5. : Operating Temperature Range -55 $^{\circ}$ C to + 125 $^{\circ}$ C

Note 6. : The part temperature (ambient + temp rise) should not exceed 125 $^{\circ}$ C under the worst case operating conditions. Circuit design , component placement, PCB trace size and thickness, airflow and other cooling provision all affect the part temperature. Part temperature should be verified in the end application.

Note 7. : The rated current as listed is either the saturation current or the heating current depending on which value is lower.