

Delta Part No . : SDER031T type

Part Name : Sealed Choke

## Sealed Choke Coil SDER031T type

### ■ Features

Low profile : 3.0mm x 3.0mm x 1.0mm

Low coil resistance with large currents.

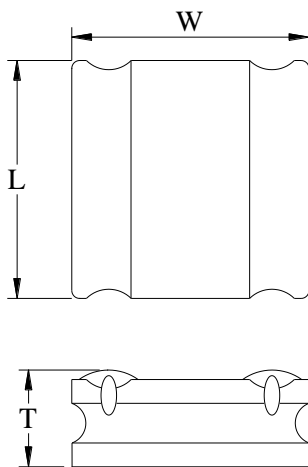
High magnetic shield construction should actualize high resolution for EMC protection.

100% lead (Pb) free meet RoHS standard

### ■ Application

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

### ■ Outline Dimensions

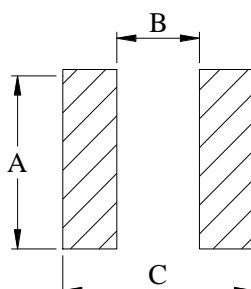


Code	Dimensions (mm)
L	3.0 ± 0.2
W	3.0 ± 0.2
T	1.0 Max

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

### ■ Recommend Land Pattern Dimensions

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



A	2.7
B	1.4
C	3.1

Unit : mm



## ■ Specifications

Part Number	L0 Inductance ( $\mu\text{H}$ ) @ (0A)	$R_{dc}$ (m $\Omega$ )		Heat Rating Current DC Amps. Idc ( A )		Saturation Current DC Amps. Isat ( A )	
		Typical	Maximum	Typical	Maximum	Typical	Maximum
SDER031T-1R0MS	1.0	67	81	2.60	2.34	2.90	2.60
SDER031T-2R2MS	2.2	89	107	1.70	1.53	1.60	1.44
SDER031T-4R7MS	4.7	166	199	1.30	1.17	1.0	0.9
SDER031T-6R8MS	6.8	249	299	1.05	0.95	0.85	0.75
SDER031T-100MS	10.0	365	438	0.85	0.77	0.75	0.68
SDER031T-150MS	15.0	672	807	0.72	0.64	0.58	0.52
SDER031T-220MS	22.0	708	850	0.60	0.55	0.47	0.43

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

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

Note 1. : All test data is referenced to 25°C ambient.

Note 2. : Test Condition:1MHz, 1.0Vrms

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

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

Note 5. : Operating Temperature Range -55°C to + 125°C

Note 6. : The part temperature (ambient + temp rise) should not exceed 125°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.

