

Delta Part No . : SDER043T type

Part Name : Sealed Choke

Sealed Choke Coil SDER043T type

■ Features

Low profile : 4.0mm x 4.0mm x 3.0mm

Low coil resistance with large currents.

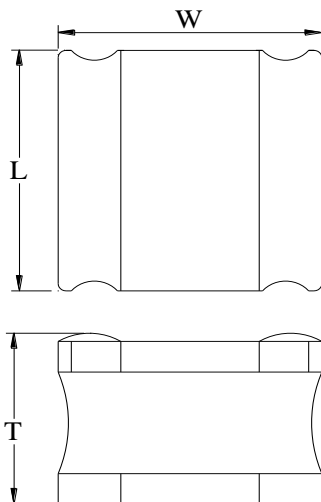
High magnetic shield construction should actualize high resolution for EMC protection.

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	3.0 Max

Unit : mm

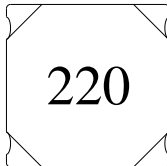
Note: This graph is in regard to outline dimensions spec. For outer appearance, please refer to actual product.

■ Marking

The inductor is marked with a 3-digit code

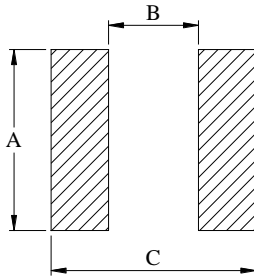
Example -- 22.0 μ H → 220

Upside of Chip



■ 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 (μ H) @ (0A)	R _{dc} (m Ω)		Heat Rating Current DC Amps. Idc (A)		Saturation Current DC Amps. Isat (A)	
		Typical	Maximum	Typical	Maximum	Typical	Maximum
SDER043T-2R2MS	2.2	28	36.4	3.70	3.30	3.70	3.30
SDER043T-3R3MS	3.3	39.5	48	3.40	3.05	3.50	3.15
SDER043T-4R7MS	4.7	70	85	2.20	2.00	2.90	2.60
SDER043T-100MS	10.0	168	202	1.35	1.21	1.70	1.53
SDER043T-220MS	22.0	225	282	1.10	1.00	1.30	1.15
SDER043T-121MS	120.0	1,000	1,250	0.62	0.55	0.64	0.57

* : 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 Δ 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.