

Delta Part No . : SDER031B type

Part Name : Sealed Choke

Sealed Choke Coil SDER031B type

■ Features

Low profile : 3.0mm x 3.0mm x 1.2m

Low coil resistance with large currents.

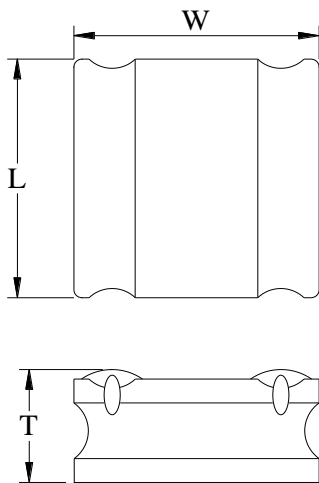
High magnetic shield construction should actualize high resolution for EMC protection.

100% lead (Pb) free meet RoHS standard

■ Application

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

■ Outline Dimensions

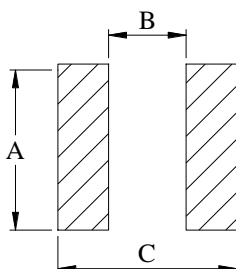


Code	Dimensions (mm)
L	3.0 ± 0.2
W	3.0 ± 0.2
T	1.2Max

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 (μH) @ (0A)	R_{dc} (m Ω)		Heat Rating Current DC Amps. Idc (A)		Saturation Current DC Amps. Isat (A)	
		Typical	Maximum	Typical	Maximum	Typical	Maximum
SDER031B-1R5MS	1.5	60	72	2.20	1.98	3.10	2.60
SDER031B-2R2MS	2.2	84	101	2.25	2.00	2.90	2.40
SDER031B-3R3MS	3.3	134	161	1.71	1.53	1.92	1.72
SDER031B-4R7MS	4.7	184	221	1.43	1.08	1.71	1.53
SDER031B-6R8MS	6.8	256	307	1.25	1.13	1.49	1.24
SDER031B-100MS	10.0	397	476	1.00	0.90	1.26	1.05
SDER031B-150MS	15.0	572	686	0.80	0.72	1.10	0.83
SDER031B-220MS	22.0	854	1,025	0.60	0.54	0.86	0.72
SDER031B-330MS	33.0	1,587	1,904	0.40	0.36	0.48	0.43
SDER031B-470MS	47.0	2,246	2,695	0.36	0.32	0.37	0.33

* : 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 ΔT 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.

Current Characteristic

