

Delta Part No . : SDET32251B type

Part Name : Sealed Choke

Sealed Choke Coil SDET32251B type

■ Features

Low profile : 3.2mm x 2.5mm x 1.2mm

Low coil resistance with large currents.

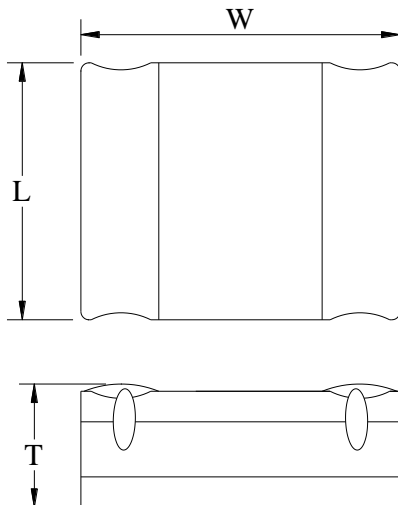
High magnetic shield construction should actualize high resolution for EMC protection.

100% lead (Pb) free meet RoHS standard

■ Application

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

■ Outline Dimensions

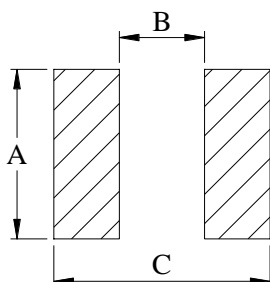


Code	Dimensions (mm)
L	2.5 ± 0.2
W	3.2 ± 0.2
T	1.2 Max

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	2.6
B	1.3
C	3.3

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
SDET32251B-1R0MS	1	51	62	2.6	2.34	3.5	3.1
SDET32251B-2R2MS	2.2	125	150	1.8	1.62	2.4	2.16
SDET32251B-3R3MS	3.3	205	246	1.30	1.17	1.70	1.53
SDET32251B-4R7MS	4.7	227	273	1.10	0.99	1.50	1.35
SDET32251B-100MS	10.0	410	488	0.80	0.72	1.10	1.00

* : 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:1MHz, 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.

■ Current Characteristic

