

Delta Part No . : SDEB12101T type

Part Name : Sealed Choke

Sealed Choke Coil SDEB12101T MSD type

■ Features

Low profile : 1.25mm x 1.0mm x 1.0mm

Low coil resistance with large currents.

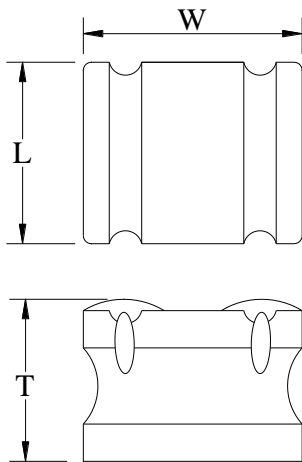
High magnetic shield construction should actualize high resolution for EMC protection.

100% lead (Pb) free meet RoHS standard

■ Application

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

■ Outline Dimensions

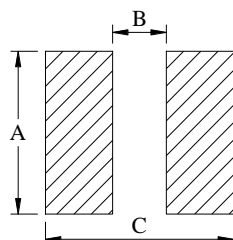


Code	Dimensions (mm)
L	1.0 ± 0.2
W	1.25 ± 0.2
T	1.0 Max

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	1.2
B	0.4
C	1.4

Unit : mm



■ Specifications

Part Number	L0 Inductance (μ H) @ (0A)	R _{dc} (m Ω)		Heat Rating Current DC Amps. I _{dc} (A)		Saturation Current DC Amps. I _{sat} (A)	
		Typical	Maximum	Typical	Maximum	Typical	Maximum
SDEB12101T-R22MSD	0.22	50	60	1.90	1.71	2.40	2.16
SDEB12101T-R33MSD	0.33	66	5.94	1.70	1.53	2.10	1.90
SDEB12101T-R47MSD	0.47	80	96	1.55	1.40	1.55	1.40
SDEB12101T-R50MSD	0.5	84	101	1.50	1.35	1.50	1.35
SDEB12101T-1R0MSD	1.0	167	201	1.05	0.95	1.15	1.04
SDEB12101T-1R5MSD	1.5	230	276	0.90	0.81	0.82	0.74
SDEB12101T-2R2MSD	2.2	281	338	0.71	0.64	0.68	0.61
SDEB12101T-3R3MSD	3.3	430	516	0.58	0.52	0.52	0.47
SDEB12101T-4R7MSD	4.7	623	748	0.48	0.43	0.46	0.41
SDEB12101T-100MSD	10.0	1,250	1,500	0.36	0.32	0.35	0.32

* : 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. : I_{dc} : DC current (A) that will cause an approximate Δ T of 40 $^{\circ}$ C

Note 4. : I_{sat} : 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

