

Sealed Choke Coil SDER043T type

■ Features

Low profile : 4.0mm x 4.0mm x 3.0mm

Low coil resistance with large currents.

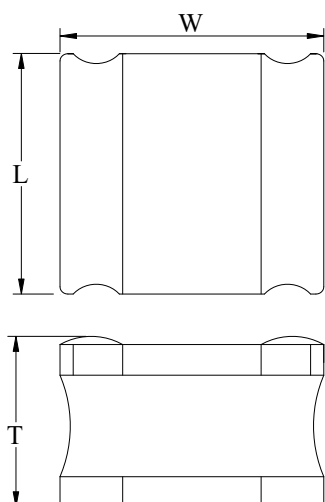
High magnetic shield construction should actualize high resolution for EMC protection.

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

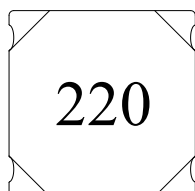
Note: This graph is in regard to outline dimensions spec. For outer appearance, please refer to actual product.

■ Marking

The inductor is marked with a 3-digit code

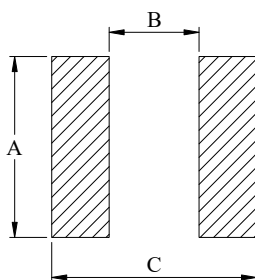
Example -- 22.0 μ H → 220

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 (μH) @ (0A)	R_{dc} ($\text{m}\Omega$)		Heat Rating Current DC Amps. I_{dc} (A)		Saturation Current DC Amps. I_{sat} (A)	
		Typical	Maximum	Typical	Maximum	Typical	Maximum
SDER043T-1R0MS	1.0	12	15	6.00	5.40	6.10	5.50
SDER043T-2R2MS	2.2	28	36.4	3.70	3.30	5.50	4.95
SDER043T-3R3MS	3.3	39.5	48	3.40	3.05	3.89	3.50
SDER043T-4R7MS	4.7	60	75	2.30	2.00	3.25	3.00
SDER043T-6R8MS	6.8	80	96	2.20	1.95	3.05	2.80
SDER043T-100MS	10.0	99	125	1.70	1.55	2.22	2.00
SDER043T-150MS	15.0	180	235	1.32	1.20	1.89	1.70
SDER043T-220MS	22.0	225	282	1.25	1.05	1.50	1.35
SDER043T-330MS	33.0	325	425	1.00	0.90	1.25	1.15
SDER043T-680MS	68.0	760	915	0.68	0.61	0.85	0.75
SDER043T-101MS	100.0	900	1,100	0.65	0.60	0.68	0.60
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°C ambient.

Note 2. : Test Condition:100KHz, 1.0Vrms

Note 3. : I_{dc} : DC current (A) that will cause an approximate ΔT of 40°C

Note 4. : I_{sat} : DC current (A) that will cause L0 to drop approximately 30%

Note 5. : Operating Temperature Range -55°C to $+125^{\circ}\text{C}$

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

