

Sealed Choke Coil PSA25201B type

■ **Features**

Low profile : 2.5mm x 2.0mm x 1.2mm

Low coil resistance with large currents.

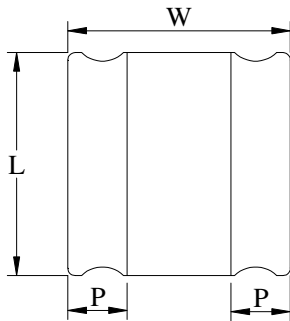
High magnetic shield construction should actualize high resolution for EMC protection.

100% lead (Pb) free meet RoHS standard

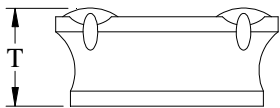
■ **Application**

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

■ **Outline Dimensions**

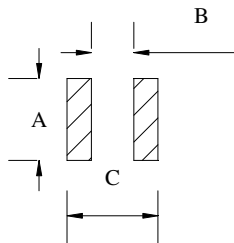


Code	Dimensions (mm)
L	2.0 ± 0.2
W	2.5 ± 0.2
T	1.2 Max.
P	0.4 ± 0.2



■ **Recommend Land Pattern Dimensions**

The customer shall determine the land dimensions shown above after confirming and safety.



A	2.1
B	0.8
C	2.6

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
PSA25201B-R47MS	0.47	34	41	3.70	3.33	3.50	3.15
PSA25201B-R68MS	0.68	48	58	3.30	2.97	2.75	2.48
PSA25201B-1R0MS	1.0	50	60	2.60	2.34	2.70	2.45
PSA25201B-1R5MS	1.5	72	86	2.20	1.98	2.30	2.07
PSA25201B-2R2MS	2.2	96	115	1.85	1.66	2.15	1.95
PSA25201B-3R3MS	3.3	140	168	1.45	1.30	1.70	1.60
PSA25201B-4R7MS	4.7	210	252	1.20	1.08	1.50	1.40
PSA25201B-6R8MS	6.8	406	487	1.00	0.90	1.00	0.90
PSA25201B-100MS	10.0	450	540	0.75	0.67	0.85	0.77
PSA25201B-220MS	22.0	1,138	1,366	0.50	0.45	0.56	0.50

* : 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 Lo 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 worse case operating conditions. Circuit design , component placement, PWB 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

