

Sealed Choke Coil PSD20161B type

■ Features

Low profile : 2.0mm x 1.6mm x 1.2mm

Low coil resistance with large currents.

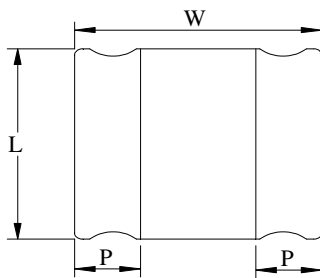
High magnetic shield construction should actualize high resolution for EMC protection.

100% lead (Pb) free meet RoHS standard

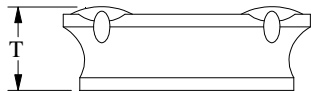
■ Application

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

■ Outline Dimensions

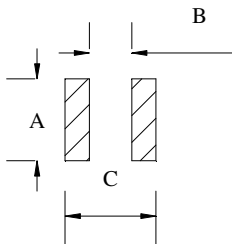


Code	Dimensions (mm)
L	1.6 ± 0.1
W	2.0 ± 0.1
T	1.2 Max
P	0.6 ± 0.2



■ Recommend Land Pattern Dimensions

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



A	1.7
B	0.6
C	2.3

Unit : mm

■ Specifications

Part Number	L0 Inductance (μH) @ (0A)	R _{dc} (mΩ)		Heat Rating Current DC Amps. Idc (A)		Saturation Current DC Amps. Isat (A)	
		Typical	Maximum	Typical	Maximum	Typical	Maximum
PSD20161B-R50MS	0.5	48	58	2.20	2.07	2.50	2.25
PSD20161B-1R0MS	1.0	92	111	1.70	1.44	1.77	1.59
PSD20161B-1R5MS	1.5	124	149	1.44	1.29	1.75	1.57
PSD20161B-1R8MS	1.8	138	166	1.36	1.22	1.50	1.35
PSD20161B-2R0MS	2.0	140	168	1.35	1.21	1.37	1.23
PSD20161B-2R2MS	2.2	154	185	1.29	1.16	1.26	1.13
PSD20161B-3R3MS	3.3	213	256	1.10	0.99	1.10	0.99
PSD20161B-4R7MS	4.7	280	336	0.96	0.86	0.90	0.81
PSD20161B-6R8MS	6.8	399	479	0.80	0.72	0.73	0.65
PSD20161B-8R2MS	8.2	481	577	0.73	0.65	0.71	0.63
PSD20161B-100MS	10.0	528	634	0.70	0.63	0.63	0.56
PSD20161B-220MS	22.0	1,610	1,932	0.35	0.31	0.42	0.37

* : If you require another part number please contact with us.

** : Inductance Tolerance ± 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 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

