

Sealed Choke Coil PSD20161T type

■ Features

Low profile : 2.0mm x 1.6mm x 1.0mm

Low coil resistance with large currents.

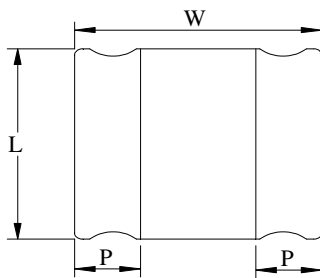
High magnetic shield construction should actualize high resolution for EMC protection.

100% lead (Pb) free meet RoHS standard

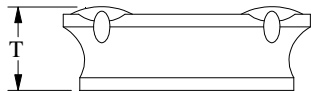
■ Application

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

■ Outline Dimensions

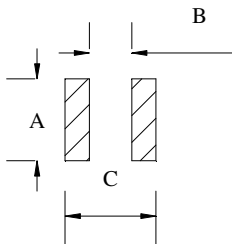


Code	Dimensions (mm)
L	1.6 ± 0.1
W	2.0 ± 0.1
T	1.0 Max
P	0.6 ± 0.2



■ 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
PSD20161T-R47MS	0.47	49	59	2.60	2.34	2.85	2.56
PSD20161T-1R0MS	1.0	96	115	1.60	1.44	1.88	1.69
PSD20161T-1R5MS	1.5	143	172	1.40	1.26	1.63	1.46
PSD20161T-1R8MS	1.8	175	210	1.35	1.21	1.50	1.35
PSD20161T-2R2MS	2.2	196	236	1.30	1.17	1.40	1.26
PSD20161T-3R3MS	3.3	247	297	1.05	0.94	1.00	0.90
PSD20161T-4R7MS	4.7	331	398	0.90	0.81	0.85	0.76
PSD20161T-6R8MS	6.8	623	748	0.60	0.54	0.80	0.72
PSD20161T-100MS	10.0	1,108	1,330	0.45	0.40	0.62	0.55
PSD20161T-220MS	22.0	2,367	2,840	0.30	0.27	0.43	0.38

* : 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

