



SPECIFICATION FOR APPROVAL

DOCUMENT : SIG201610L-000

REVISION : A3

PAGE : 1 OF 3

Sealed Choke Coil SIG201610L type

■ Features

Low profile : 2.0mm x 1.6mm x 1.0mm

Low coil resistance with large currents.

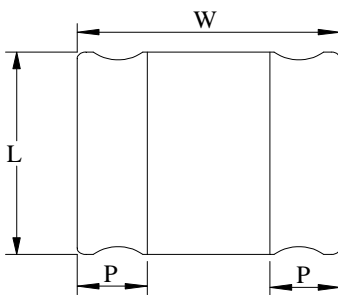
High magnetic shield construction should actualize high resolution for EMC protection.

100% lead (Pb) free meet RoHS standard

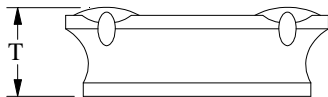
■ Application

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

■ Outline Dimensions



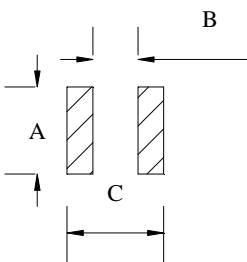
Code	Dimensions (mm)
L	1.6 ± 0.1
W	2.0 ± 0.1
T	1.0 Max
P	0.6 ± 0.1



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

■ 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



SPECIFICATION FOR APPROVAL

DOCUMENT : SIG201610L-000

REVISION : A3

PAGE : 2 OF 3

■ 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
SIG201610L-R24	0.24	24	29	3.75	3.38	3.60	3.24
SIG201610L-R47	0.47	44	53	2.60	2.34	3.00	2.70
SIG201610L-1R0	1.0	86	103	1.75	1.60	1.95	1.80
SIG201610L-2R2	2.2	138	150	1.40	1.26	1.20	1.00
SIG201610L-4R7	4.7	361	433	1.00	0.90	0.86	0.77

* : 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.



SPECIFICATION FOR APPROVAL

Current Characteristic

