



# SPECIFICATION FOR APPROVAL

## SIG201612H-XXX Sealed Choke Coil

### 1. 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

### 2. Application

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

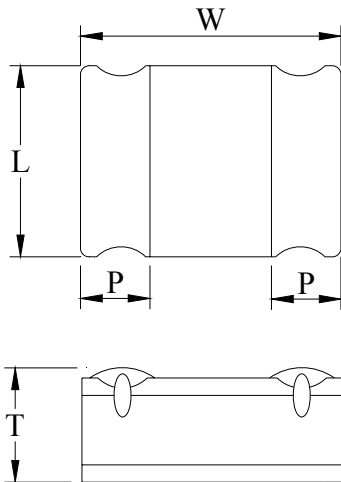
### 3. Type Designation

SIG	201612	H	-	XXX
(1)	(2)	(3)		(4)

Where

- (1) Series No :
- (2) Size :  
201612 = 2.0mm x 1.6mm x 1.2mm
- (3) Characteristic:  
L : Low Resistance Type  
H: High Current Type
- (4) Inductance Value :  
2R2 = 2.2μH

### 4. Outline Dimensions



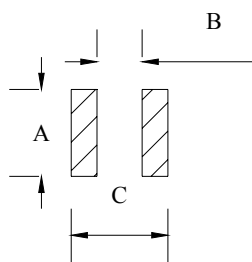
Code	Dimensions (mm)
L	1.6 ± 0.1
W	2.0 ± 0.1
T	1.2 Max
P	0.6 ± 0.2

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

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### 5. 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

### 6. Specifications

Part Number	L0 Inductance ( $\mu\text{H}$ ) @ (0A)	$R_{dc}$ (m $\Omega$ )		Heat Rating Current DC Amps. Idc (A)		Saturation Current DC Amps. Isat (A)	
		Typical	Maximum	Typical	Maximum	Typical	Maximum
SIG201612H-R47	0.47	40	45	2.35	2.11	2.90	2.64
SIG201612H-R50	0.5	48	58	2.20	2.07	2.50	2.25
SIG201612H-1R0	1.0	76	92	1.70	1.44	1.77	1.59
SIG201612H-1R5	1.5	124	149	1.44	1.29	1.75	1.57
SIG201612H-1R8	1.8	138	166	1.36	1.22	1.50	1.35
SIG201612H-2R0	2.0	140	168	1.35	1.21	1.37	1.23
SIG201612H-2R2	2.2	154	185	1.29	1.16	1.26	1.13
SIG201612H-3R3	3.3	213	256	1.10	0.99	1.10	0.99
SIG201612H-4R7	4.7	280	336	0.96	0.86	0.90	0.81
SIG201612H-6R8	6.8	399	479	0.80	0.72	0.73	0.65
SIG201612H-8R2	8.2	481	577	0.73	0.65	0.71	0.63
SIG201612H-100	10.0	528	634	0.70	0.63	0.63	0.56
SIG201612H-150	15.0	1,455	1,746	0.46	0.41	0.54	0.48
SIG201612H-220	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  $\pm 20\%$

Note 1. : All test data is referenced to 25°C ambient.

Note 2. : Idc : DC current (A) that will cause an approximate  $\Delta T$  of 40°C

Note 3. : Isat : DC current (A) that will cause Lo to drop approximately 30%

Note 4. : Operating Temperature Range -55°C to +125°C

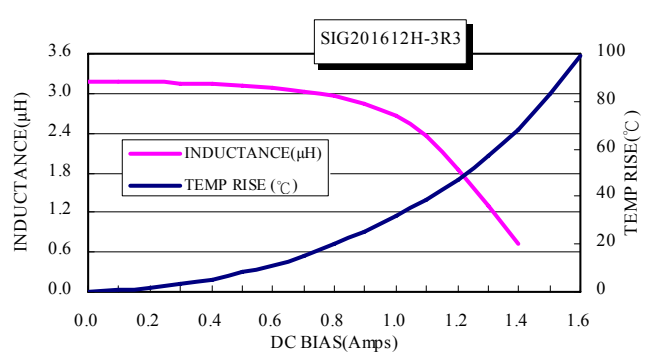
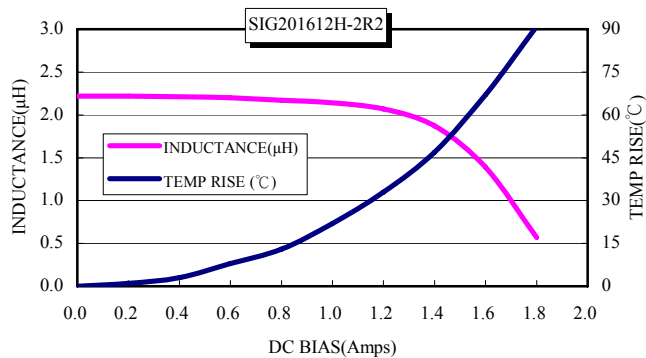
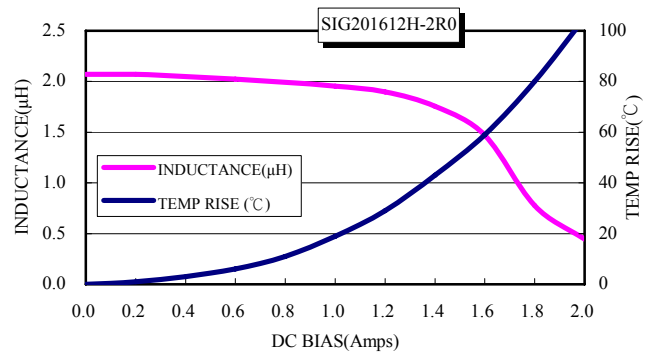
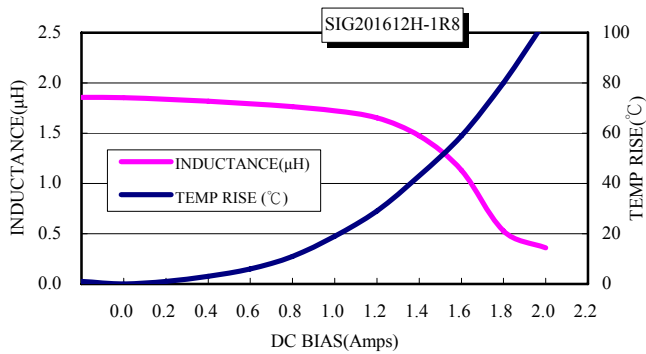
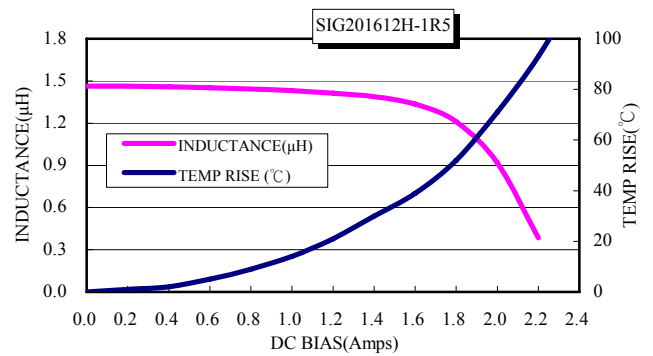
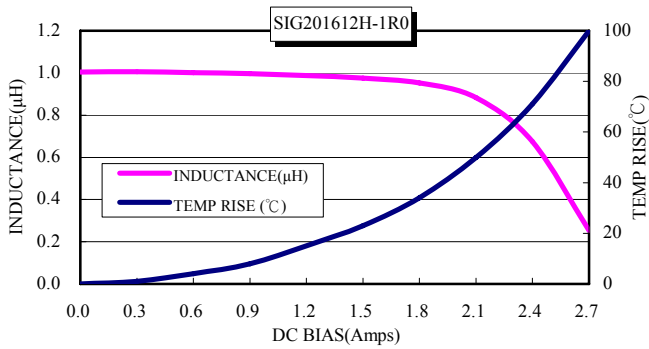
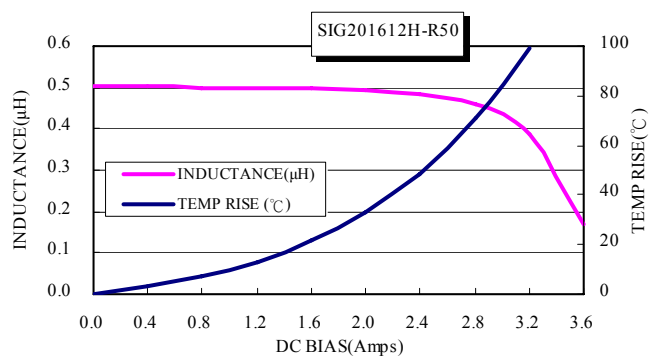
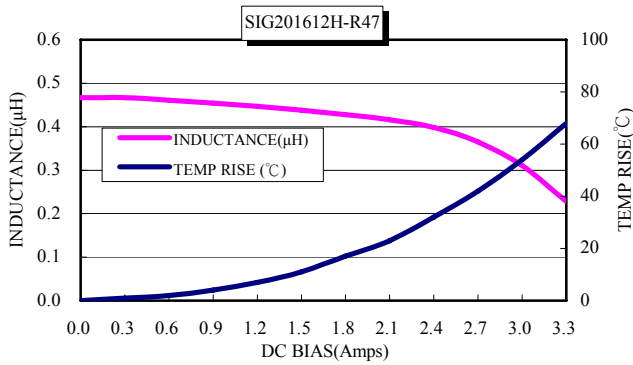
Note 5. : The part temperature (ambient + temp rise) should not exceed 125°C under worse case operating conditions. Circuit design, component placement, PWB trace size and thickness, airflow and other cooling provision all affect the part temperature. Part temperature should be verified in the end application.

Note 6. : The rated current as listed is either the saturation current or the heating current depending on which value is lower.



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## 6-1 Current Characteristic





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