



SPECIFICATION FOR APPROVAL

SIG252010-XXX Sealed Choke Coil

1. Features

Low profile : 2.5mm x 2.0mm 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

2. Application

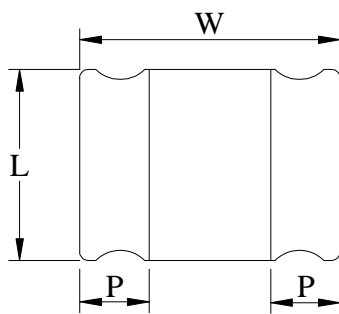
Cellular phones, LCD displays, HDDs, DVCs, DSCs, PDAs etc..

3. Type Designation

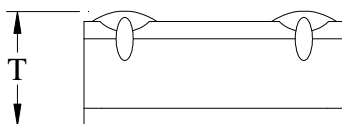
SIG 252010 – XXX
 (1) (2) (3)

Where (1) Series No :
 (2) Size :
 252010 = 2.5mm x 2.0mm x 1.0mm
 (3) Inductance Value :
 3R3 = 3.3μH

4. Outline Dimensions



Code	Dimensions (mm)
L	2.0 ± 0.1
W	2.5 ± 0.1
T	1.0 Max
P	0.4 ± 0.2

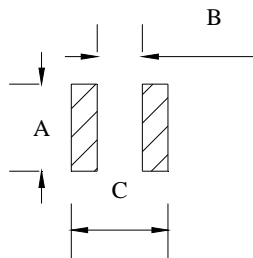


Note: This graph is only regard to dimensions spec. For outer appearance, please refer to actual product.

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5. Recommend Land Pattern Dimensions

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



A	2.1
B	0.8
C	2.6

Unit : mm

6. Specifications

Part Number	L0 Inductance (μH) @ (0A)	R_{dc} ($\text{m}\Omega$)		Heat Rating Current DC Amps. Idc (A)		Saturation Current DC Amps. Isat (A)	
		Typical	Maximum	Typical	Maximum	Typical	Maximum
SIG252010-R47	0.47	40	48	2.30	2.07	2.80	2.50
SIG252010-R50	0.50	55	66	2.10	1.89	2.70	2.43
SIG252010-1R0	1.0	71	85	1.70	1.53	2.00	1.80
SIG252010-1R5	1.5	107	128	1.40	1.26	1.70	1.50
SIG252010-2R2	2.2	158	190	1.10	0.99	1.40	1.20
SIG252010-3R3	3.3	253	304	0.94	0.84	1.20	1.00
SIG252010-4R7	4.7	367	440	0.78	0.70	0.98	0.88
SIG252010-6R8	6.8	451	541	0.70	0.63	0.82	0.74
SIG252010-100	10.0	712	854	0.52	0.46	0.65	0.59
SIG252010-220	22.0	1,716	2,059	0.30	0.27	0.35	0.31

* : 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 ΔT of 40°C

Note 3. : Isat : DC current (A) that will cause L_0 to drop approximately 30%

Note 4. : Operating Temperature Range -55°C to $+125^{\circ}\text{C}$

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.



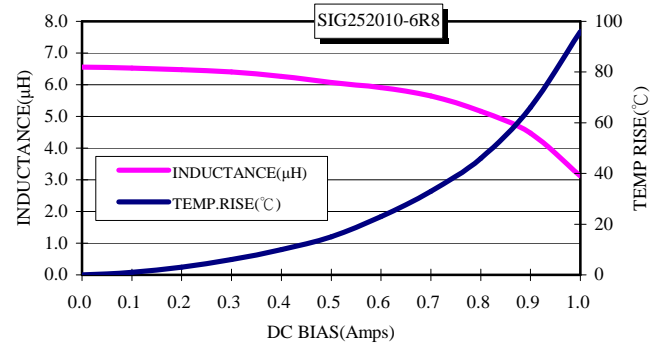
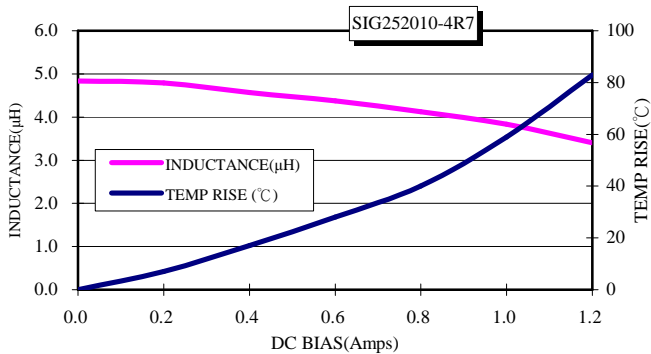
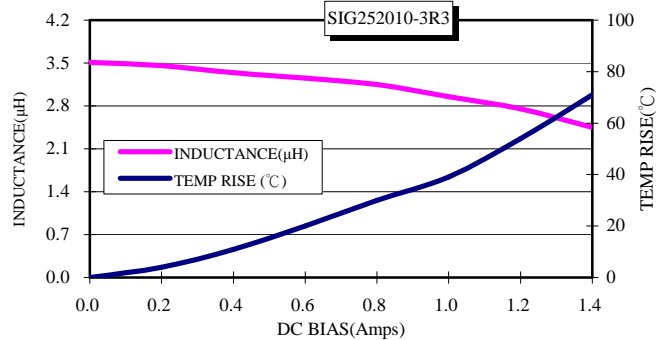
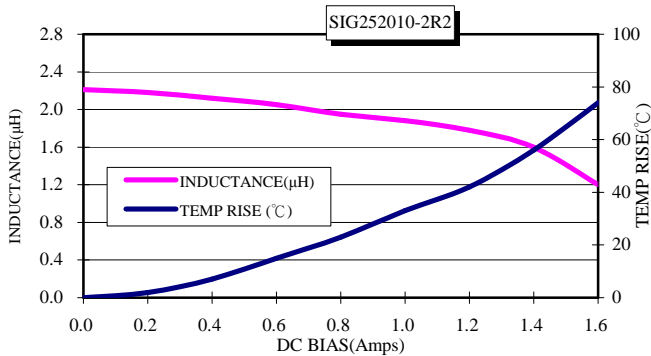
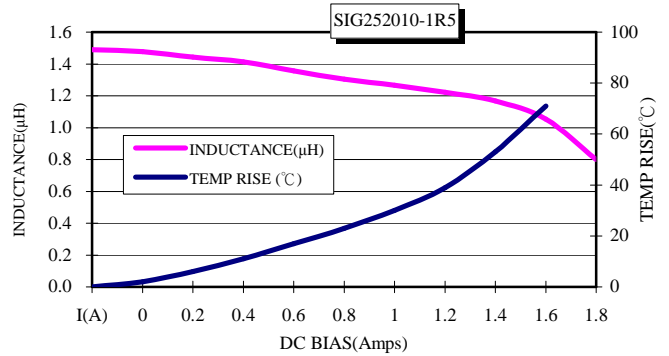
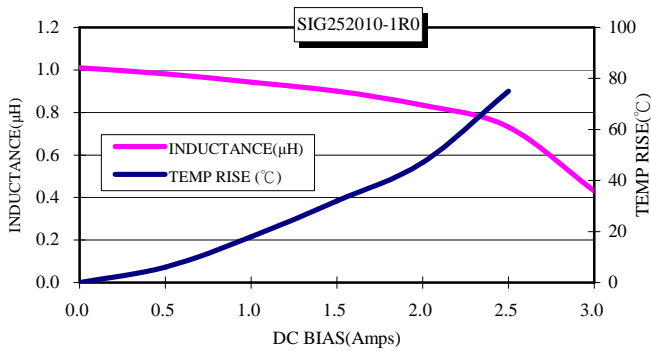
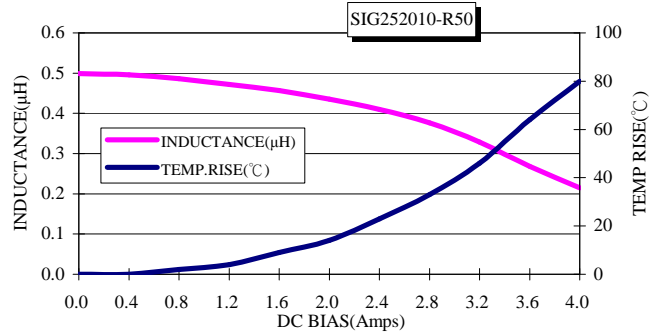
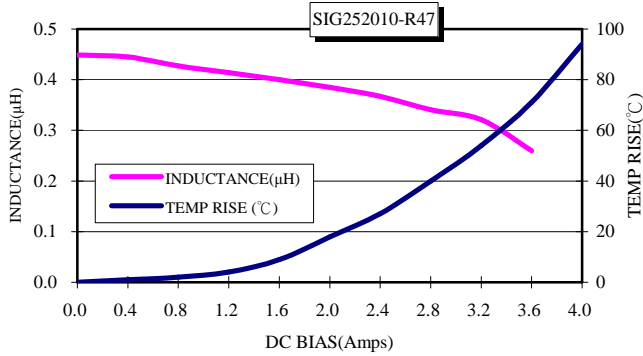
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REVISION : A3

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6-1 Current Characteristic





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