Sealed Choke Coil PST041H type

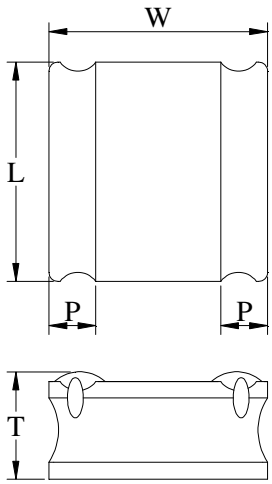
Features

Low profile：3.8mm x 3.8mm x 1.8mm
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



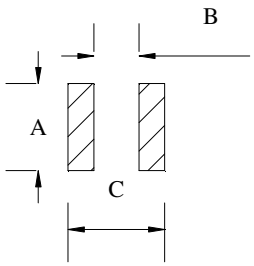
Code	Dimensions (mm)
L	3.8 ± 0.2*
W	3.8 ± 0.2*
T	1.8 Max.*
P	1.0 ± 0.2

* Dimensions are of the case not including the termination. For maximum overall dimensions including the termination, add 0.1mm.

Note ： This graph is in regard to outline 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	3.8
B	1.8
C	3.8

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
PST041H-R56MS	0.56	17	22	5.4	4.86	5.5	4.95
PST041H-1R0MS	1.0	20	25	3.8	3.42	3.8	3.42
PST041H-1R2MS	1.2	25	30	3.6	3.24	3.6	3.24
PST041H-1R5MS	1.5	33	40	3.2	2.88	3.5	3.15
PST041H-1R8MS	1.8	34	41	3.1	2.79	3.1	2.79
PST041H-2R2MS	2.2	35	45	3.0	2.70	3.0	2.70
PST041H-3R3MS	3.3	45	56	2.7	2.43	2.4	2.16
PST041H-4R7MS	4.7	70	90	2.2	1.98	2.0	1.80
PST041H-6R8MS	6.8	90	115	1.9	1.71	1.7	1.53
PST041H-8R2MS	8.2	105	132	1.5	1.35	1.6	1.44
PST041H-100MS	10.0	135	170	1.4	1.26	1.55	1.40
PST041H-150MS	15.0	185	222	1.25	1.12	1.0	0.90
PST041H-220MS	22.0	250	315	1.2	1.08	0.83	0.74
PST041H-330MS	33.0	405	486	0.9	0.81	0.68	0.61
PST041H-470MS	47.0	495	594	0.8	0.72	0.56	0.50
PST041H-680MS	68.0	885	1,062	0.58	0.52	0.48	0.43
PST041H-101MS	100.0	1,545	1,854	0.42	0.37	0.45	0.40
PST041H-221MS	220.0	3,150	3,780	0.30	0.27	0.33	0.30
PST041H-331MS	330.0	4,200	5,040	0.27	0.24	0.25	0.22

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

** ：Inductance Tolerance ± 20%

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

Note 2. ： Test Condition:100KHz, 1.0Vrms

Note 3. ： Idc : DC current (A) that will cause an approximate △T of 40℃

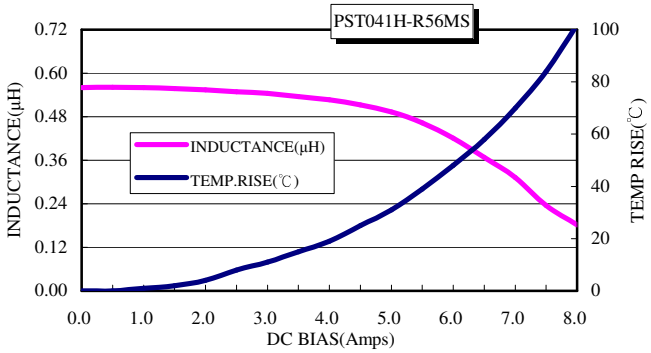
Note 4. ： Isat : DC current (A) that will cause Lo to drop approximately 30%

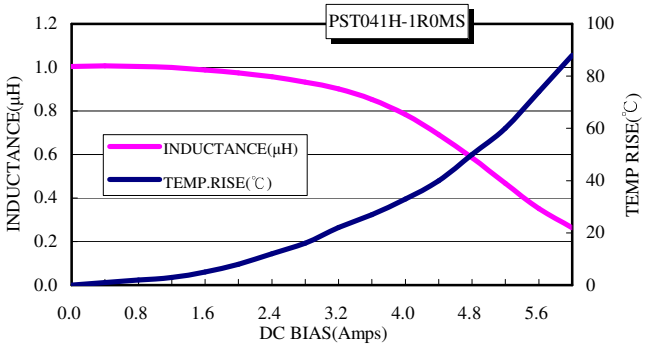
Note 5. ： Operating Temperature Range -55℃ to + 125℃

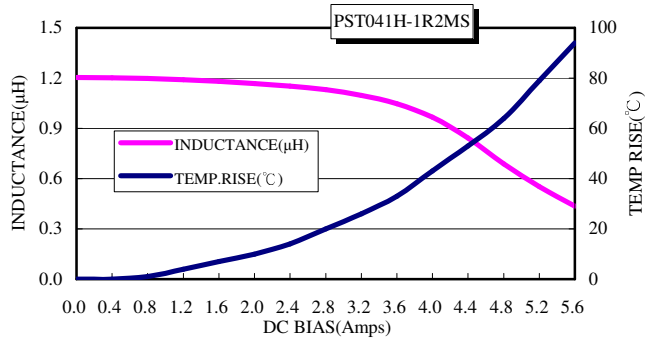
Note 6. ： The part temperature (ambient + temp rise) should not exceed 125℃ under worse case operating conditions. Circuit design , component placement, PWB trace size and thickness, airflow and other cooling provision all affect the part temperature. Part temperature should be verified in the end application.

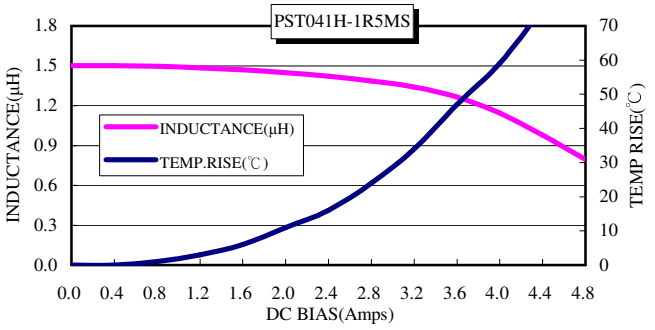
Note 7. ： The rated current as listed is either the saturation current or the heating current depending on which value is lower.

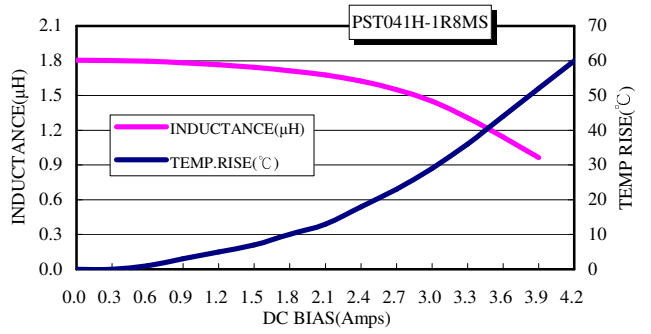
Current Characteristic

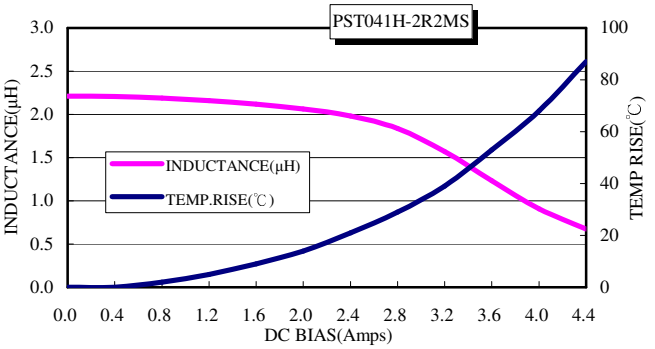


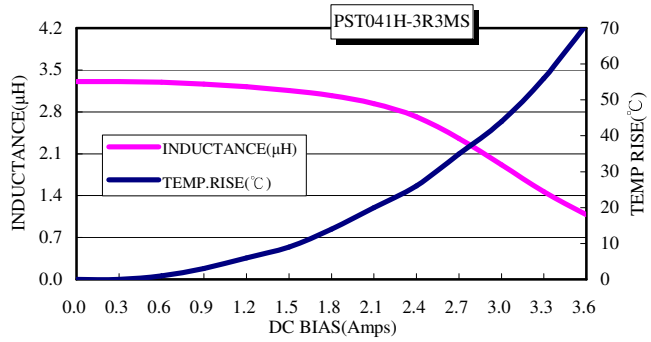


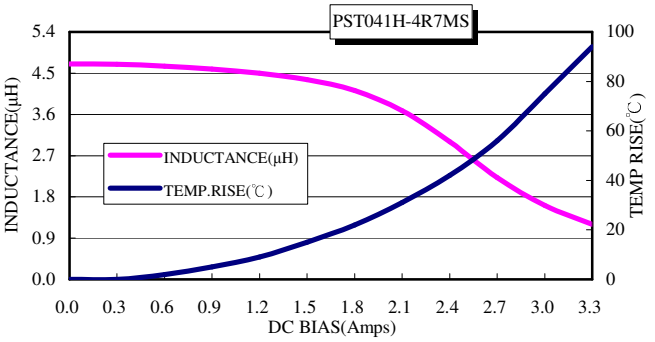


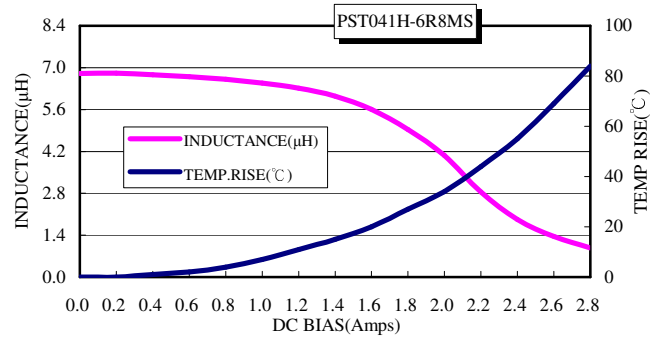


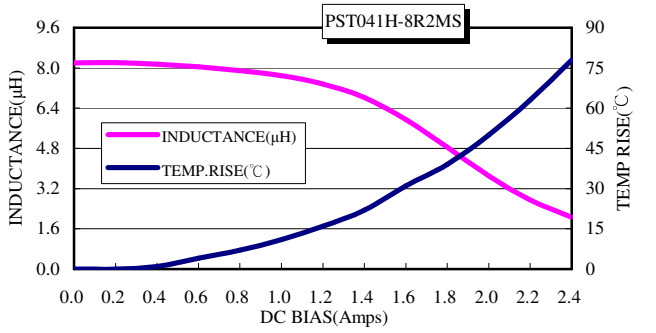


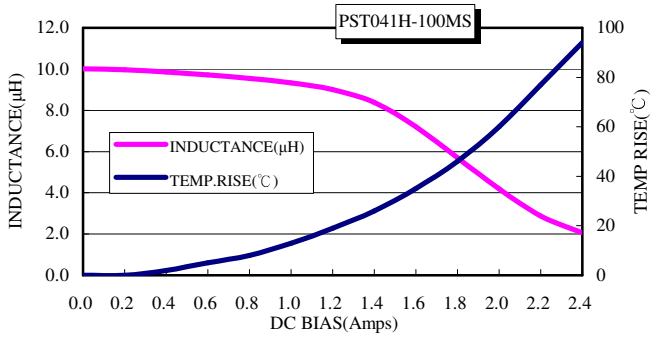


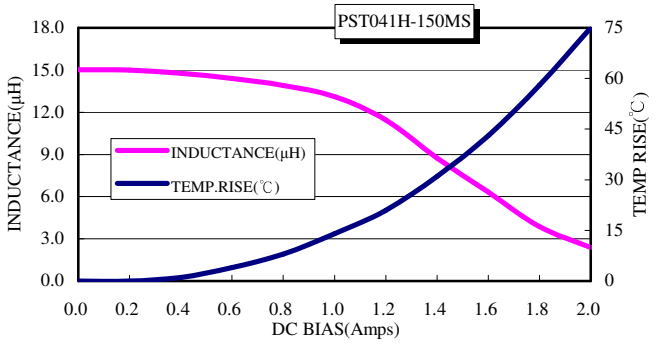


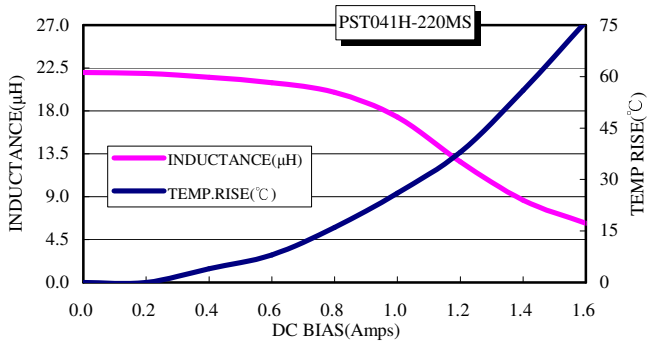


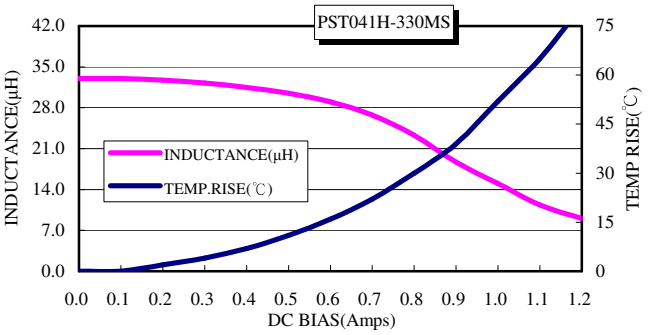

PST041H-6R8MS
INDUCTANCE(μH)
TEMP.RISE(℃)
INDUCTANCE(μH)
TEMP RISE(℃)
DC BIAS(Amps)

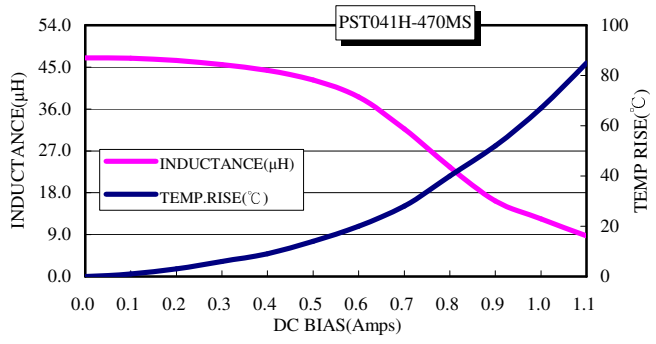

PST041H-8R2MS
INDUCTANCE(μH)
TEMP.RISE(℃)
INDUCTANCE(μH)
TEMP RISE(℃)
DC BIAS(Amps)

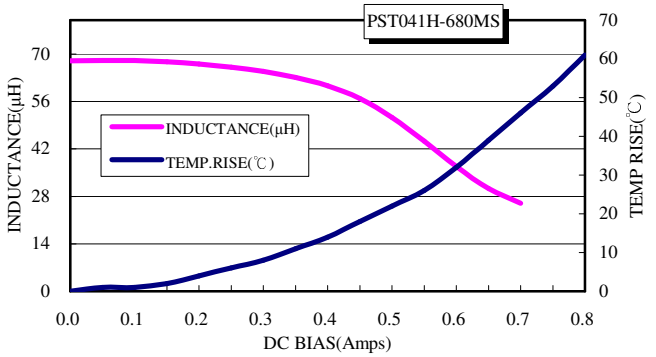

PST041H-100MS
INDUCTANCE(μH)
TEMP.RISE(℃)
INDUCTANCE(μH)
TEMP RISE(℃)
DC BIAS(Amps)

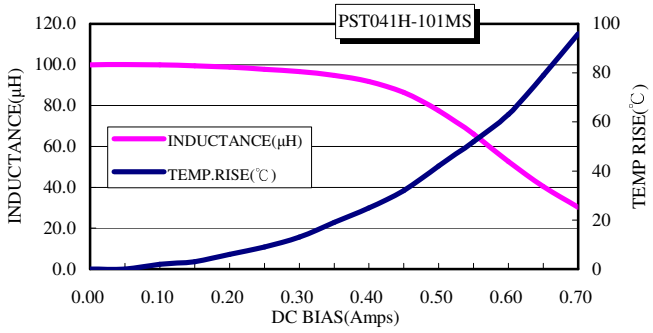

PST041H-150MS
INDUCTANCE(μH)
TEMP.RISE(℃)
INDUCTANCE(μH)
TEMP RISE(℃)
DC BIAS(Amps)

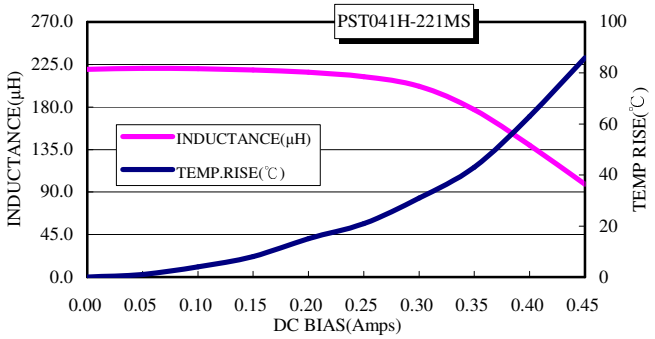

PST041H-220MS
INDUCTANCE(μH)
TEMP.RISE(℃)
INDUCTANCE(μH)
TEMP RISE(℃)
DC BIAS(Amps)

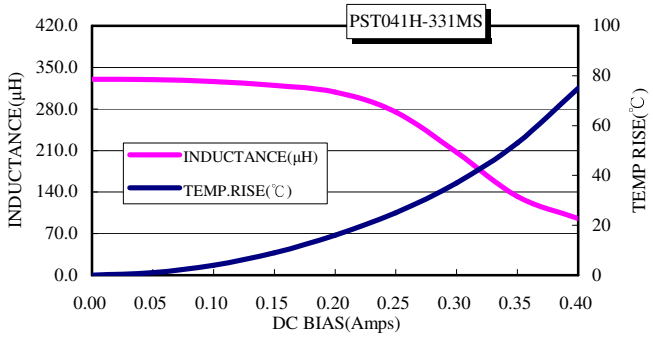

PST041H-330MS
INDUCTANCE(μH)
TEMP.RISE(℃)
INDUCTANCE(μH)
TEMP RISE(℃)
DC BIAS(Amps)


PST041H-470MS
INDUCTANCE(μH)
TEMP.RISE(℃)
INDUCTANCE(μH)
TEMP RISE(℃)
DC BIAS(Amps)


PST041H-680MS
INDUCTANCE(μH)
TEMP.RISE(℃)
INDUCTANCE(μH)
TEMP RISE(℃)
DC BIAS(Amps)


PST041H-101MS
INDUCTANCE(μH)
TEMP.RISE(℃)
INDUCTANCE(μH)
TEMP RISE(℃)
DC BIAS(Amps)
120.0
100.0
80.0
60.0
40.0
20.0
0.0
100
80
60
40
20
0
0.00 0.10 0.20 0.30 0.40 0.50 0.60 0.70


PST041H-221MS
INDUCTANCE(μH)
TEMP.RISE(℃)
INDUCTANCE(μH)
TEMP RISE(℃)
DC BIAS(Amps)
270.0
225.0
180.0
135.0
90.0
45.0
0.0
100
80
60
40
20
0
0.00 0.05 0.10 0.15 0.20 0.25 0.30 0.35 0.40 0.45


PST041H-331MS
INDUCTANCE(μH)
TEMP.RISE(℃)
INDUCTANCE(μH)
TEMP RISE(℃)
DC BIAS(Amps)
420.0
350.0
280.0
210.0
140.0
70.0
0.0
100
80
60
40
20
0
0.00 0.05 0.10 0.15 0.20 0.25 0.30 0.35 0.40

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