

Wire Wound SMD Power Inductors – SWRH-B Series

Operating Temperature: -25°C~+105°C (Including self-heating)



FEATURES

- Various high power inductors are superior to be high saturation
- Suitable for surface mounting equipment

APPLICATIONS

- Power supply choke for small electrical equipments such as VTR, LCD display, Notebook, communication equipment, and so on.

PRODUCT IDENTIFICATION

SWRH

①

XXXX

②

B

③

-XXX

④

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⑤

T

⑥

①	Type
SWRH	Wire Wound SMD Type Power Inductors (With Metallic Base)

②	External Dimensions
	0602~1207

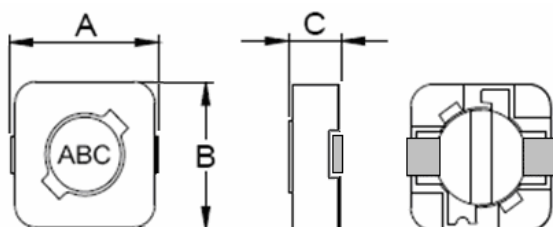
③	Configuration
B	B Type Base

④	Nominal Inductance
Example	Nominal Value
1R0	1.0μH
100	10μH
101	100μH

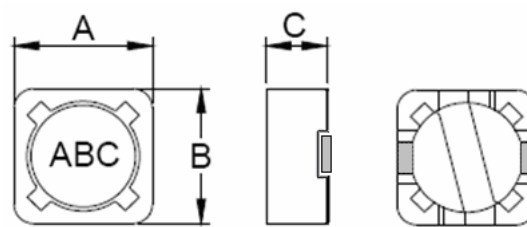
⑤	Inductance Tolerance
M	±20%
N	±30%

⑥	Packing
T	编带 Tape Carrier Package

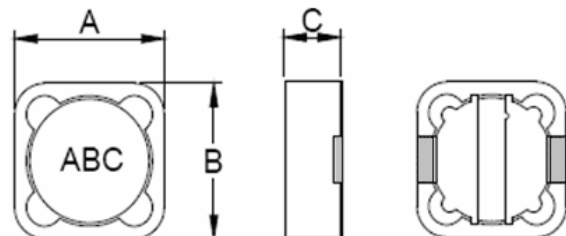
SHAPE AND DIMENSIONS



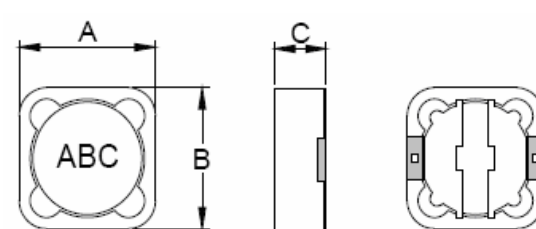
SWRH0602B/0604B



SWRH0703B/0704B



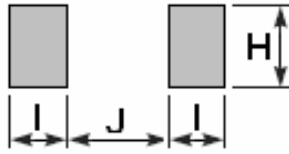
SWRH1004B



SWRH11204B/1205B/1207B

SHAPE AND DIMENSIONS

Recommended Land Pattern



Unit: mm

Series	A max.	B max.	C max.	I typ.	J typ.	H typ.
SWRH0602B	7.0	6.8	3.0	1.4	4.6	1.9
SWRH0604B	7.0	6.8	5.0	1.4	4.6	1.9
SWRH0703B	7.8	7.8	4.0	1.6	4.8	2.2
SWRH0704B	7.8	7.8	5.0	1.6	4.8	2.2
SWRH1004B	10.5	10.5	5.0	2.0	6.8	4.4
SWRH1204B	12.5	12.5	5.0	2.9	7.0	5.4
SWRH1205B	12.5	12.5	6.0	2.9	7.0	5.4
SWRH1207B	12.5	12.5	8.0	2.9	7.0	5.4

SPECIFICATIONS

SWRH0602B

Part Number	Inductance	L Test Condition L 测试条件	Max. DC Resistance	Max. Rated Current
Units	μH	Hz, V	Ω	A
Symbol	L	-	DCR	I _r
SWRH0602B-3R3NT	3.3±30%	100k, 0.3V	0.068	1.94
SWRH0602B-4R7NT	4.7±30%	100k, 0.3V	0.080	1.63
SWRH0602B-5R6NT	5.6±30%	100k, 0.3V	0.096	1.40
SWRH0602B-100MT	10±20%	1k, 0.3V	0.150	1.10
SWRH0602B-120MT	12±20%	1k, 0.3V	0.200	1.00
SWRH0602B-150MT	15±20%	1k, 0.3V	0.230	0.90
SWRH0602B-180MT	18±20%	1k, 0.3V	0.270	0.80
SWRH0602B-220MT	22±20%	1k, 0.3V	0.340	0.74
SWRH0602B-270MT	27±20%	1k, 0.3V	0.380	0.66
SWRH0602B-330MT	33±20%	1k, 0.3V	0.450	0.59
SWRH0602B-390MT	39±20%	1k, 0.3V	0.490	0.54
SWRH0602B-470MT	47±20%	1k, 0.3V	0.690	0.50
SWRH0602B-560MT	56±20%	1k, 0.3V	0.780	0.46
SWRH0602B-680MT	68±20%	1k, 0.3V	1.070	0.42
SWRH0602B-820MT	82±20%	1k, 0.3V	1.210	0.38

SWRH0604B

Part Number	Inductance	L Test Condition L 测试条件	Max. DC Resistance	Max. Rated Current
Units	μH	Hz, V	Ω	A
Symbol	L	-	DCR	I _r
SWRH0604B-100MT	10±20%	1k, 0.3V	0.120	1.35
SWRH0604B-120MT	12±20%	1k, 0.3V	0.130	1.20
SWRH0604B-150MT	15±20%	1k, 0.3V	0.180	1.10
SWRH0604B-180MT	18±20%	1k, 0.3V	0.240	1.00
SWRH0604B-220MT	22±20%	1k, 0.3V	0.270	0.91

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SPECIFICATIONS

SWRH0604B

Part Number	Inductance	L Test Condition L 测试条件	Max. DC Resistance	Max. Rated Current
Units	μH	Hz, V	Ω	A
Symbol	L	-	DCR	I _r
SWRH0604B-270MT	27±20%	1k, 0.3V	0.300	0.82
SWRH0604B-330MT	33±20%	1k, 0.3V	0.330	0.75
SWRH0604B-390MT	39±20%	1k, 0.3V	0.370	0.69
SWRH0604B-470MT	47±20%	1k, 0.3V	0.520	0.62
SWRH0604B-560MT	56±20%	1k, 0.3V	0.560	0.58
SWRH0604B-680MT	68±20%	1k, 0.3V	0.630	0.52
SWRH0604B-820MT	82±20%	1k, 0.3V	0.710	0.47
SWRH0604B-101MT	100±20%	1k, 0.3V	1.030	0.43
SWRH0604B-121MT	120±20%	1k, 0.3V	1.150	0.39

SWRH0703B

Part Number	Inductance	L Test Condition L 测试条件	Max. DC Resistance	Max. Rated Current
Units	μH	Hz, V	Ω	A
Symbol	L	-	DCR	I _r
SWRH0703B-2R2NT	2.2±30%	100k, 0.3V	0.025	3.00
SWRH0703B-3R3NT	3.3±30%	100k, 0.3V	0.035	2.50
SWRH0703B-4R7NT	4.7±30%	100k, 0.3V	0.031	2.00
SWRH0703B-100MT	10±20%	1k, 0.3V	0.072	1.68
SWRH0703B-120MT	12±20%	1k, 0.3V	0.098	1.52
SWRH0703B-150MT	15±20%	1k, 0.3V	0.130	1.33
SWRH0703B-180MT	18±20%	1k, 0.3V	0.140	1.20
SWRH0703B-220MT	22±20%	1k, 0.3V	0.190	1.07
SWRH0703B-270MT	27±20%	1k, 0.3V	0.210	0.96
SWRH0703B-330MT	33±20%	1k, 0.3V	0.240	0.91
SWRH0703B-390MT	39±20%	1k, 0.3V	0.320	0.77
SWRH0703B-470MT	47±20%	1k, 0.3V	0.360	0.76
SWRH0703B-560MT	56±20%	1k, 0.3V	0.470	0.68
SWRH0703B-680MT	68±20%	1k, 0.3V	0.520	0.61
SWRH0703B-820MT	82±20%	1k, 0.3V	0.690	0.57
SWRH0703B-101MT	100±20%	1k, 0.3V	0.790	0.50
SWRH0703B-121MT	120±20%	1k, 0.3V	0.890	0.49
SWRH0703B-151MT	150±20%	1k, 0.3V	1.270	0.43
SWRH0703B-181MT	180±20%	1k, 0.3V	1.450	0.39

SWRH0704B

Part Number	Inductance	L Test Condition L 测试条件	Max. DC Resistance	Max. Rated Current
Units	μH	Hz, V	Ω	A
Symbol	L	-	DCR	I _r
SWRH0704B-100MT	10±20%	1k, 0.3V	0.049	1.84
SWRH0704B-120MT	12±20%	1k, 0.3V	0.058	1.71
SWRH0704B-150MT	15±20%	1k, 0.3V	0.081	1.47
SWRH0704B-180MT	18±20%	1k, 0.3V	0.091	1.31
SWRH0704B-220MT	22±20%	1k, 0.3V	0.110	1.23
SWRH0704B-270MT	27±20%	1k, 0.3V	0.150	1.12
SWRH0704B-330MT	33±20%	1k, 0.3V	0.170	0.96
SWRH0704B-390MT	39±20%	1k, 0.3V	0.230	0.91
SWRH0704B-470MT	47±20%	1k, 0.3V	0.260	0.88
SWRH0704B-560MT	56±20%	1k, 0.3V	0.350	0.75
SWRH0704B-680MT	68±20%	1k, 0.3V	0.380	0.69
SWRH0704B-820MT	82±20%	1k, 0.3V	0.430	0.61
SWRH0704B-101MT	100±20%	1k, 0.3V	0.610	0.60

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SPECIFICATIONS

SWRH0704B

Part Number	Inductance	L Test Condition L 测试条件	Max. DC Resistance	Max. Rated Current
Units	μ H	Hz, V	Ω	A
Symbol	L	-	DCR	I _r
SWRH0704B-121MT	120 \pm 20%	1k, 0.3V	0.660	0.52
SWRH0704B-151MT	150 \pm 20%	1k, 0.3V	0.880	0.46
SWRH0704B-181MT	180 \pm 20%	1k, 0.3V	0.980	0.42
SWRH0704B-221MT	220 \pm 20%	1k, 0.3V	1.170	0.36
SWRH0704B-271MT	270 \pm 20%	1k, 0.3V	1.640	0.34

SWRH1004B

Part Number	Inductance	L Test Condition L 测试条件	Max. DC Resistance	Max. Rated Current
Units	μ H	Hz, V	Ω	A
Symbol	L	-	DCR	I _r
SWRH1004B-2R2NT	2.2 \pm 30%	100k, 0.3V	0.018	4.00
SWRH1004B-3R8NT	3.8 \pm 30%	100k, 0.3V	0.028	3.50
SWRH1004B-4R7NT	4.7 \pm 30%	100k, 0.3V	0.035	3.20
SWRH1004B-6R8NT	6.8 \pm 30%	100k, 0.3V	0.044	2.80
SWRH1004B-100MT	10 \pm 20%	1k, 0.3V	0.050	2.40
SWRH1004B-120MT	12 \pm 20%	1k, 0.3V	0.054	2.25
SWRH1004B-150MT	15 \pm 20%	1k, 0.3V	0.061	2.00
SWRH1004B-180MT	18 \pm 20%	1k, 0.3V	0.084	1.80
SWRH1004B-220MT	22 \pm 20%	1k, 0.3V	0.094	1.65
SWRH1004B-270MT	27 \pm 20%	1k, 0.3V	0.110	1.45
SWRH1004B-330MT	33 \pm 20%	1k, 0.3V	0.150	1.35
SWRH1004B-390MT	39 \pm 20%	1k, 0.3V	0.170	1.20
SWRH1004B-470MT	47 \pm 20%	1k, 0.3V	0.210	1.10
SWRH1004B-560MT	56 \pm 20%	1k, 0.3V	0.230	1.00
SWRH1004B-680MT	68 \pm 20%	1k, 0.3V	0.260	0.93
SWRH1004B-820MT	82 \pm 20%	1k, 0.3V	0.360	0.84
SWRH1004B-101MT	100 \pm 20%	1k, 0.3V	0.410	0.76
SWRH1004B-121MT	120 \pm 20%	1k, 0.3V	0.450	0.70
SWRH1004B-151MT	150 \pm 20%	1k, 0.3V	0.640	0.63
SWRH1004B-181MT	180 \pm 20%	1k, 0.3V	0.840	0.57
SWRH1004B-221MT	220 \pm 20%	1k, 0.3V	0.960	0.52
SWRH1004B-271MT	270 \pm 20%	1k, 0.3V	1.070	0.47
SWRH1004B-331MT	330 \pm 20%	1k, 0.3V	1.370	0.43
SWRH1004B-391MT	390 \pm 20%	1k, 0.3V	1.550	0.39

SWRH1204B

Part Number	Inductance	L Test Condition L 测试条件	Max. DC Resistance	Max. Rated Current
Units	μ H	Hz, V	Ω	A
Symbol	L	-	DCR	I _r
SWRH1204B-1R0NT	1.0 \pm 30%	100k, 0.3V	0.010	7.0
SWRH1204B-2R2NT	2.2 \pm 30%	100k, 0.3V	0.014	5.7
SWRH1204B-3R3NT	3.3 \pm 30%	100k, 0.3V	0.015	5.2
SWRH1204B-4R7NT	4.7 \pm 30%	100k, 0.3V	0.018	4.9
SWRH1204B-5R6NT	5.6 \pm 30%	100k, 0.3V	0.020	4.5
SWRH1204B-6R8NT	6.8 \pm 30%	100k, 0.3V	0.023	4.2
SWRH1204B-8R2NT	8.2 \pm 30%	100k, 0.3V	0.026	4.0
SWRH1204B-100MT	10 \pm 20%	1k, 0.3V	0.028	3.8
SWRH1204B-120MT	12 \pm 20%	1k, 0.3V	0.038	3.5
SWRH1204B-150MT	15 \pm 20%	1k, 0.3V	0.050	3.2
SWRH1204B-180MT	18 \pm 20%	1k, 0.3V	0.057	3.1
SWRH1204B-220MT	22 \pm 20%	1k, 0.3V	0.066	2.9
SWRH1204B-270MT	27 \pm 20%	1k, 0.3V	0.080	2.8

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SPECIFICATIONS

SWRH1204B

Part Number	Inductance	L Test Condition L 测试条件	Max. DC Resistance	Max. Rated Current
Units	μH	Hz, V	Ω	A
Symbol	L	-	DCR	I _r
SWRH1204B-330MT	33±20%	1k, 0.3V	0.097	2.7
SWRH1204B-390MT	39±20%	1k, 0.3V	0.132	2.1
SWRH1204B-470MT	47±20%	1k, 0.3V	0.160	1.9
SWRH1204B-560MT	56±20%	1k, 0.3V	0.190	1.8
SWRH1204B-680MT	68±20%	1k, 0.3V	0.220	1.5
SWRH1204B-820MT	82±20%	1k, 0.3V	0.260	1.3
SWRH1204B-101MT	100±20%	1k, 0.3V	0.310	1.2
SWRH1204B-121MT	120±20%	1k, 0.3V	0.380	1.1
SWRH1204B-151MT	150±20%	1k, 0.3V	0.530	0.95
SWRH1204B-181MT	180±20%	1k, 0.3V	0.620	0.85
SWRH1204B-221MT	220±20%	1k, 0.3V	0.700	0.80
SWRH1204B-271MT	270±20%	1k, 0.3V	0.870	0.60
SWRH1204B-331MT	330±20%	1k, 0.3V	0.990	0.50

SWRH1205B

Part Number	Inductance	L Test Condition L 测试条件	Max. DC Resistance	Max. Rated Current
Units	μH	Hz, V	Ω	A
Symbol	L	-	DCR	I _r
SWRH1205B-1R0NT	1.0±30%	100k, 0.3V	0.010	8.0
SWRH1205B-2R2NT	2.2±30%	100k, 0.3V	0.014	7.8
SWRH1205B-2R4NT	2.4±30%	100k, 0.3V	0.014	7.5
SWRH1205B-3R3NT	3.3±30%	100k, 0.3V	0.014	6.8
SWRH1205B-4R7NT	4.7±30%	100k, 0.3V	0.02	5.6
SWRH1205B-5R8NT	5.8±30%	100k, 0.3V	0.02	5.2
SWRH1205B-8R2NT	8.2±30%	100k, 0.3V	0.021	4.4
SWRH1205B-100MT	10±20%	1k, 0.3V	0.025	4.0
SWRH1205B-120MT	12±20%	1k, 0.3V	0.027	3.50
SWRH1205B-150MT	15±20%	1k, 0.3V	0.030	3.30
SWRH1205B-180MT	18±20%	1k, 0.3V	0.034	3.00
SWRH1205B-220MT	22±20%	1k, 0.3V	0.036	2.80
SWRH1205B-270MT	27±20%	1k, 0.3V	0.051	2.30
SWRH1205B-330MT	33±20%	1k, 0.3V	0.057	2.10
SWRH1205B-390MT	39±20%	1k, 0.3V	0.068	2.00
SWRH1205B-470MT	47±20%	1k, 0.3V	0.075	1.80
SWRH1205B-560MT	56±20%	1k, 0.3V	0.110	1.70
SWRH1205B-680MT	68±20%	1k, 0.3V	0.120	1.50
SWRH1205B-820MT	82±20%	1k, 0.3V	0.140	1.40
SWRH1205B-101MT	100±20%	1k, 0.3V	0.160	1.30
SWRH1205B-121MT	120±20%	1k, 0.3V	0.170	1.10
SWRH1205B-151MT	150±20%	1k, 0.3V	0.230	1.00
SWRH1205B-181MT	180±20%	1k, 0.3V	0.290	0.90
SWRH1205B-221MT	220±20%	1k, 0.3V	0.400	0.80
SWRH1205B-271MT	270±20%	1k, 0.3V	0.460	0.75
SWRH1205B-331MT	330±20%	1k, 0.3V	0.510	0.68
SWRH1205B-391MT	390±20%	1k, 0.3V	0.690	0.65
SWRH1205B-471MT	470±20%	1k, 0.3V	0.770	0.58
SWRH1205B-561MT	560±20%	1k, 0.3V	0.860	0.54
SWRH1205B-681MT	680±20%	1k, 0.3V	1.200	0.48

SPECIFICATIONS

SWRH1207B

Part Number	Inductance	L Test Condition L 测试条件	Max. DC Resistance	Max. Rated Current
Units	μH	Hz, V	Ω	A
Symbol	L	-	DCR	I _r
SWRH1207B-1R0NT	1.0±30%	100k, 0.3V	0.009	10.00
SWRH1207B-2R2NT	2.2±30%	100k, 0.3V	0.012	8.00
SWRH1207B-2R7NT	2.7±30%	100k, 0.3V	0.013	8.00
SWRH1207B-3R3NT	3.3±30%	100k, 0.3V	0.013	8.00
SWRH1207B-3R9NT	3.9±30%	100k, 0.3V	0.013	7.50
SWRH1207B-4R7NT	4.7±30%	100k, 0.3V	0.016	6.80
SWRH1207B-6R1NT	6.1±30%	100k, 0.3V	0.018	6.60
SWRH1207B-6R8NT	6.8±30%	100k, 0.3V	0.019	6.60
SWRH1207B-7R6NT	7.6±30%	100k, 0.3V	0.020	5.90
SWRH1207B-8R2NT	8.2±30%	100k, 0.3V	0.020	5.60
SWRH1207B-100MT	10±20%	1k, 0.3V	0.021	5.40
SWRH1207B-120MT	12±20%	1k, 0.3V	0.024	4.90
SWRH1207B-150MT	15±20%	1k, 0.3V	0.027	4.50
SWRH1207B-180MT	18±20%	1k, 0.3V	0.039	3.90
SWRH1207B-220MT	22±20%	1k, 0.3V	0.043	3.60
SWRH1207B-270MT	27±20%	1k, 0.3V	0.046	3.40
SWRH1207B-330MT	33±20%	1k, 0.3V	0.065	3.00
SWRH1207B-390MT	39±20%	1k, 0.3V	0.073	2.75
SWRH1207B-470MT	47±20%	1k, 0.3V	0.100	2.50
SWRH1207B-560MT	56±20%	1k, 0.3V	0.110	2.35
SWRH1207B-680MT	68±20%	1k, 0.3V	0.140	2.10
SWRH1207B-820MT	82±20%	1k, 0.3V	0.160	1.95
SWRH1207B-101MT	100±20%	1k, 0.3V	0.220	1.70
SWRH1207B-121MT	120±20%	1k, 0.3V	0.250	1.60
SWRH1207B-151MT	150±20%	1k, 0.3V	0.280	1.42
SWRH1207B-181MT	180±20%	1k, 0.3V	0.350	1.30
SWRH1207B-221MT	220±20%	1k, 0.3V	0.390	1.16
SWRH1207B-271MT	270±20%	1k, 0.3V	0.560	1.06
SWRH1207B-331MT	330±20%	1k, 0.3V	0.640	0.95
SWRH1207B-391MT	390±20%	1k, 0.3V	0.700	0.88
SWRH1207B-471MT	470±20%	1k, 0.3V	0.980	0.79
SWRH1207B-561MT	560±20%	1k, 0.3V	1.070	0.73
SWRH1207B-681MT	680±20%	1k, 0.3V	1.460	0.67
SWRH1207B-821MT	820±20%	1k, 0.3V	1.640	0.60
SWRH1207B-102MT	1000±20%	1k, 0.3V	1.820	0.55

※1: All test data is referenced to 20°C ambient;

※2: The maximum rated current is a DC current which causes initial inductance to decrease by 25% or temperature to rise by 40°C, which is smaller(at ambient reference temperature: 20°C)