

# Wire Wound SMD Power Inductors – SWRB-S Series

Operating Temperature: -40°C~+105°C (Including Self-heating)



## FEATURES

- High saturation current, low DCR
- Suitable for surface mounting equipment
- Close magnetic circuit design reduce leakage

## APPLICATIONS

- Power supply choke for small electrical equipments such as DVC, LCD display, notebook, communication equipment, OA equipment and so on.

## PRODUCT IDENTIFICATION

**SWRB**                      **1204**                      **S**                      **-1R0**                      **N**                      **I**

①                              ②                              ③                              ④                              ⑤                              ⑥

①	Type
SWRB	Wire Wound SMD Type Power Inductors (With Plastic Base)

②	External Dimensions
	1204~1207

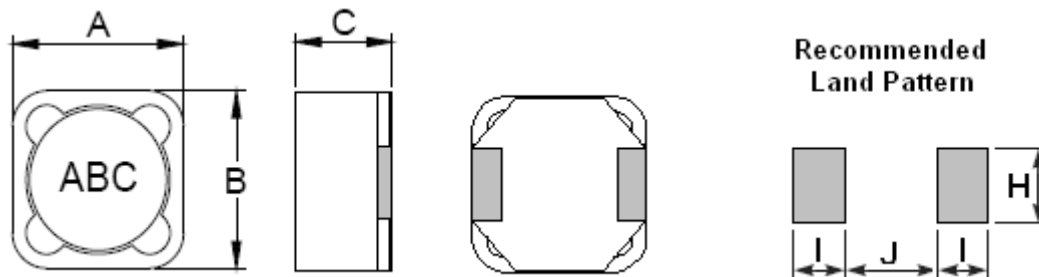
③	Configuration
S	S Type Base

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

⑤	Inductance Tolerance	
M	±20%	
N	±30%	

⑥	Packing
T	Tape Carrier Package

## SHAPE AND DIMENSIONS



Unit: mm

Series	A max.	B max.	C max.	I typ.	J typ.	H typ.
SWRB1204S	12.5	12.5	5.0	2.9	7.0	5.4
SWRB1205S	12.5	12.5	6.0	2.9	7.0	5.4
SWRB1207S	12.5	12.5	8.0	2.9	7.0	5.4

## SPECIFICATIONS

### SWRB1204S TYPE

Part Number	Inductance	L Test Condition	Max. DC Resistance	Max. Rated Current
Units	$\mu\text{H}$	Hz, V	$\Omega$	A
Symbol	L	-	DCR	$I_r$
SWRB1204S-1R0NT	1.0 $\pm$ 30%	100k, 0.3V	0.010	7.00
SWRB1204S-2R2NT	2.2 $\pm$ 30%	100k, 0.3V	0.014	5.70
SWRB1204S-3R3NT	3.3 $\pm$ 30%	100k, 0.3V	0.015	5.20
SWRB1204S-4R7NT	4.7 $\pm$ 30%	100k, 0.3V	0.018	4.90
SWRB1204S-5R6NT	5.6 $\pm$ 30%	100k, 0.3V	0.020	4.50
SWRB1204S-6R8NT	6.8 $\pm$ 30%	100k, 0.3V	0.023	4.20
SWRB1204S-8R2NT	8.2 $\pm$ 30%	100k, 0.3V	0.026	4.00
SWRB1204S-100MT	10 $\pm$ 20%	1k, 0.3V	0.028	3.80
SWRB1204S-120MT	12 $\pm$ 20%	1k, 0.3V	0.038	3.50
SWRB1204S-150MT	15 $\pm$ 20%	1k, 0.3V	0.050	3.20
SWRB1204S-180MT	18 $\pm$ 20%	1k, 0.3V	0.057	3.10
SWRB1204S-220MT	22 $\pm$ 20%	1k, 0.3V	0.066	2.90
SWRB1204S-270MT	27 $\pm$ 20%	1k, 0.3V	0.080	2.80
SWRB1204S-330MT	33 $\pm$ 20%	1k, 0.3V	0.097	2.70
SWRB1204S-390MT	39 $\pm$ 20%	1k, 0.3V	0.132	2.10
SWRB1204S-470MT	47 $\pm$ 20%	1k, 0.3V	0.160	1.90
SWRB1204S-560MT	56 $\pm$ 20%	1k, 0.3V	0.190	1.80
SWRB1204S-680MT	68 $\pm$ 20%	1k, 0.3V	0.220	1.50
SWRB1204S-820MT	82 $\pm$ 20%	1k, 0.3V	0.260	1.30
SWRB1204S-101MT	100 $\pm$ 20%	1k, 0.3V	0.310	1.20
SWRB1204S-121MT	120 $\pm$ 20%	1k, 0.3V	0.380	1.10
SWRB1204S-151MT	150 $\pm$ 20%	1k, 0.3V	0.530	0.95
SWRB1204S-181MT	180 $\pm$ 20%	1k, 0.3V	0.620	0.85
SWRB1204S-221MT	220 $\pm$ 20%	1k, 0.3V	0.700	0.80
SWRB1204S-271MT	270 $\pm$ 20%	1k, 0.3V	0.870	0.60
SWRB1204S-331MT	330 $\pm$ 20%	1k, 0.3V	0.990	0.50

### SWRB1205S TYPE

Part Number	Inductance	L Test Condition	Max. DC Resistance	Max. Rated Current
Units	$\mu\text{H}$	Hz, V	$\Omega$	A
Symbol	L	-	DCR	$I_r$
SWRB1205S-1R0NT	1.0 $\pm$ 30%	100k, 0.3V	0.010	8.00
SWRB1205S-2R2NT	2.2 $\pm$ 30%	100k, 0.3V	0.014	7.80
SWRB1205S-2R4NT	2.4 $\pm$ 30%	100k, 0.3V	0.014	7.80
SWRB1205S-3R3NT	3.3 $\pm$ 30%	100k, 0.3V	0.018	6.00
SWRB1205S-5R6NT	5.6 $\pm$ 30%	100k, 0.3V	0.020	5.20
SWRB1205S-6R8NT	6.8 $\pm$ 30%	100k, 0.3V	0.020	4.70
SWRB1205S-8R2NT	8.2 $\pm$ 30%	100k, 0.3V	0.021	4.40
SWRB1205S-100MT	10 $\pm$ 20%	1k, 0.3V	0.025	4.00
SWRB1205S-120MT	12 $\pm$ 20%	1k, 0.3V	0.027	3.50
SWRB1205S-150MT	15 $\pm$ 20%	1k, 0.3V	0.030	3.30
SWRB1205S-180MT	18 $\pm$ 20%	1k, 0.3V	0.034	3.00
SWRB1205S-220MT	22 $\pm$ 20%	1k, 0.3V	0.036	2.80
SWRB1205S-270MT	27 $\pm$ 20%	1k, 0.3V	0.051	2.30
SWRB1205S-330MT	33 $\pm$ 20%	1k, 0.3V	0.057	2.10
SWRB1205S-390MT	39 $\pm$ 20%	1k, 0.3V	0.068	2.00
SWRB1205S-470MT	47 $\pm$ 20%	1k, 0.3V	0.075	1.80
SWRB1205S-560MT	56 $\pm$ 20%	1k, 0.3V	0.110	1.70
SWRB1205S-680MT	68 $\pm$ 20%	1k, 0.3V	0.120	1.50
SWRB1205S-820MT	82 $\pm$ 20%	1k, 0.3V	0.140	1.40
SWRB1205S-101MT	100 $\pm$ 20%	1k, 0.3V	0.160	1.30
SWRB1205S-121MT	120 $\pm$ 20%	1k, 0.3V	0.170	1.10

## SPECIFICATIONS

### SWRB1205S TYPE

Part Number	Inductance	L Test Condition	Max. DC Resistance	Max. Rated Current
Units	$\mu\text{H}$	Hz, V	$\Omega$	A
Symbol	L	-	DCR	$I_r$
SWRB1205S-151MT	150 $\pm$ 20%	1k, 0.3V	0.230	1.00
SWRB1205S-181MT	180 $\pm$ 20%	1k, 0.3V	0.290	0.90
SWRB1205S-221MT	220 $\pm$ 20%	1k, 0.3V	0.400	0.80
SWRB1205S-271MT	270 $\pm$ 20%	1k, 0.3V	0.460	0.75
SWRB1205S-331MT	330 $\pm$ 20%	1k, 0.3V	0.510	0.68
SWRB1205S-391MT	390 $\pm$ 20%	1k, 0.3V	0.690	0.65
SWRB1205S-471MT	470 $\pm$ 20%	1k, 0.3V	0.770	0.58
SWRB1205S-561MT	560 $\pm$ 20%	1k, 0.3V	0.860	0.54
SWRB1205S-681MT	680 $\pm$ 20%	1k, 0.3V	1.200	0.48

### SWRB1207S TYPE

Part Number	Inductance	L Test Condition	Max. DC Resistance	Max. Rated Current
Units	$\mu\text{H}$	Hz, V	$\Omega$	A
Symbol	L	-	DCR	$I_r$
SWRB1207S-1R0NT	1.0 $\pm$ 30%	100k, 0.3V	0.009	10.00
SWRB1207S-2R2NT	2.2 $\pm$ 30%	100k, 0.3V	0.012	8.00
SWRB1207S-3R3NT	3.3 $\pm$ 30%	100k, 0.3V	0.013	7.00
SWRB1207S-4R7NT	4.7 $\pm$ 30%	100k, 0.3V	0.016	6.80
SWRB1207S-5R6NT	5.6 $\pm$ 30%	100k, 0.3V	0.018	6.70
SWRB1207S-6R8NT	6.8 $\pm$ 30%	100k, 0.3V	0.019	6.60
SWRB1207S-8R2NT	8.2 $\pm$ 30%	100k, 0.3V	0.020	5.60
SWRB1207S-100MT	10 $\pm$ 20%	1k, 0.3V	0.021	5.40
SWRB1207S-120MT	12 $\pm$ 20%	1k, 0.3V	0.024	4.90
SWRB1207S-150MT	15 $\pm$ 20%	1k, 0.3V	0.027	4.50
SWRB1207S-180MT	18 $\pm$ 20%	1k, 0.3V	0.039	3.90
SWRB1207S-220MT	22 $\pm$ 20%	1k, 0.3V	0.043	3.60
SWRB1207S-270MT	27 $\pm$ 20%	1k, 0.3V	0.046	3.40
SWRB1207S-330MT	33 $\pm$ 20%	1k, 0.3V	0.065	3.00
SWRB1207S-390MT	39 $\pm$ 20%	1k, 0.3V	0.073	2.75
SWRB1207S-470MT	47 $\pm$ 20%	1k, 0.3V	0.100	2.50
SWRB1207S-560MT	56 $\pm$ 20%	1k, 0.3V	0.110	2.35
SWRB1207S-680MT	68 $\pm$ 20%	1k, 0.3V	0.140	2.10
SWRB1207S-820MT	82 $\pm$ 20%	1k, 0.3V	0.160	1.95
SWRB1207S-101MT	100 $\pm$ 20%	1k, 0.3V	0.220	1.70
SWRB1207S-121MT	120 $\pm$ 20%	1k, 0.3V	0.250	1.60
SWRB1207S-151MT	150 $\pm$ 20%	1k, 0.3V	0.280	1.42
SWRB1207S-181MT	180 $\pm$ 20%	1k, 0.3V	0.350	1.30
SWRB1207S-221MT	220 $\pm$ 20%	1k, 0.3V	0.390	1.16
SWRB1207S-271MT	270 $\pm$ 20%	1k, 0.3V	0.560	1.06
SWRB1207S-331MT	330 $\pm$ 20%	1k, 0.3V	0.640	0.95
SWRB1207S-391MT	390 $\pm$ 20%	1k, 0.3V	0.700	0.88
SWRB1207S-471MT	470 $\pm$ 20%	1k, 0.3V	0.980	0.79
SWRB1207S-561MT	560 $\pm$ 20%	1k, 0.3V	1.070	0.73
SWRB1207S-681MT	680 $\pm$ 20%	1k, 0.3V	1.460	0.67
SWRB1207S-821MT	820 $\pm$ 20%	1k, 0.3V	1.640	0.60
SWRB1207S-102MT	1000 $\pm$ 20%	1k, 0.3V	1.820	0.55

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