Wire Wound SMD Power Inductors – SWRB-S Series

Operating Temperature: -40℃~+105℃ (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

SWRB	1204	S	-1R0	N	T
①	②	③	④	⑤	⑥

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

②	External Dimensions
1204~1207	

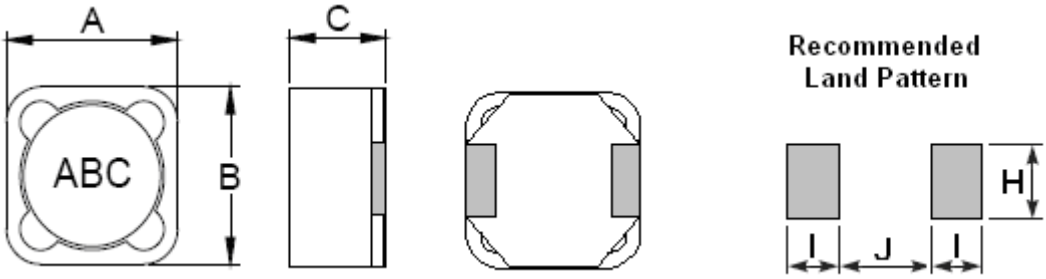
③	Configuration
S	S Type Base

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

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SPECIFICATIONS

SWRB1204S TYPE

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

SWRB1205S TYPE

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

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SWRB1205S TYPE

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

SWRB1207S TYPE

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

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