

Wire Wound SMD Power Inductors – SWRB-A 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

SWRB **0603** **A** **-4R7** **N** **T**

① ② ③ ④ ⑤ ⑥

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

②	External Dimensions
	0603~1207

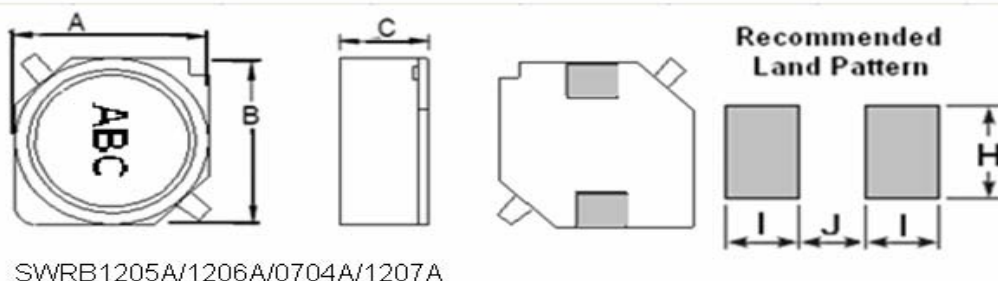
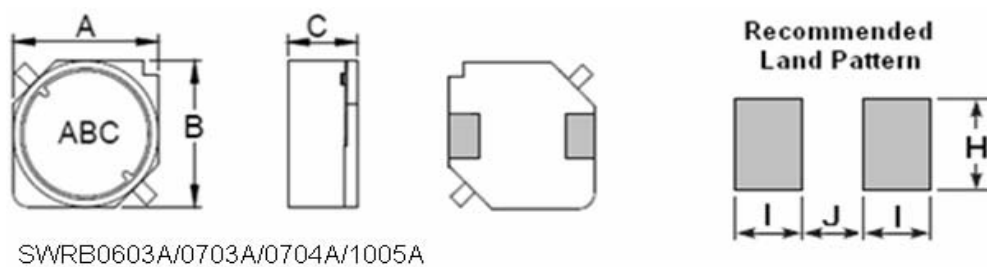
③	Configuration
A	A Type

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



SHAPE AND DIMENSIONS

Unit: mm

Series	A max.	B max.	Cmax	I.type	J type	H type
SWRB0603A	6.2	6.2	3.0	1.5	4.0	2.2
SWRB0703A	7.6	7.6	3.5	1.5	4.9	2.0
SWRB0704A	7.6	7.6	4.8	1.5	4.9	2.0
SWRB1005A	10.5	10.5	5.0	2.0	6.4	3.0
SWRB1205A	12.8	12.8	5.8	2.0	8.3	3.0
SWRB1206A	12.8	12.8	6.8	2.0	8.3	3.0
SWRB1207A	12.8	12.8	7.8	2.0	8.3	3.0

SPECIFICATIONS

SWRB0603A TYPE

Part Number	Inductance	L Test Condition	Max. DC Resistance	Max. Rated Current
Units	μH	Hz, V	Ω	A
Symbol	L	-	DCR	I_r
SWRB0603A-4R7NT	4.7 \pm 30%	100k, 0.3V	0.034	1.60
SWRB0603A-6R8NT	6.8 \pm 30%	100k, 0.3V	0.042	1.50
SWRB0603A-100MT	10 \pm 20%	1k, 0.3V	0.064	1.30
SWRB0603A-150MT	15 \pm 20%	1k, 0.3V	0.089	1.00
SWRB0603A-220MT	22 \pm 20%	1k, 0.3V	0.125	0.77
SWRB0603A-330MT	33 \pm 20%	1k, 0.3V	0.178	0.69
SWRB0603A-470MT	47 \pm 20%	1k, 0.3V	0.252	0.59
SWRB0603A-680MT	68 \pm 20%	1k, 0.3V	0.348	0.50
SWRB0603A-101MT	100 \pm 20%	1k, 0.3V	0.516	0.42
SWRB0603A-151MT	150 \pm 20%	1k, 0.3V	0.780	0.34
SWRB0603A-221MT	220 \pm 20%	1k, 0.3V	1.176	0.26

SWRB0703A TYPE

Part Number	Inductance	L Test Condition	Max. DC Resistance	Max. Rated Current
Units	μH	Hz, V	Ω	A
Symbol 符号	L	-	DCR	I_r
SWRB0703A-3R3NT	3.3 \pm 30%	100k, 0.3V	0.028	1.90
SWRB0703A-4R7NT	4.7 \pm 30%	100k, 0.3V	0.043	1.70
SWRB0703A-6R8NT	6.8 \pm 30%	100k, 0.3V	0.049	1.60
SWRB0703A-100MT	10 \pm 20%	1k, 0.3V	0.064	1.40
SWRB0703A-150MT	15 \pm 20%	1k, 0.3V	0.090	1.10
SWRB0703A-220MT	22 \pm 20%	1k, 0.3V	0.132	0.96
SWRB0703A-330MT	33 \pm 20%	1k, 0.3V	0.192	0.75
SWRB0703A-470MT	47 \pm 20%	1k, 0.3V	0.288	0.67
SWRB0703A-680MT	68 \pm 20%	1k, 0.3V	0.372	0.59
SWRB0703A-101MT	100 \pm 20%	1k, 0.3V	0.540	0.45
SWRB0703A-151MT	150 \pm 20%	1k, 0.3V	0.780	0.37
SWRB0703A-221MT	220 \pm 20%	1k, 0.3V	1.260	0.29
SWRB0703A-331MT	330 \pm 20%	1k, 0.3V	2.004	0.22
SWRB0703A-471MT	470 \pm 20%	1k, 0.3V	2.460	0.20

SPECIFICATIONS

SWRB0704A TYPE

Part Number	Inductance	L Test Condition	Max. DC Resistance	Max. Rated Current
Units	μH	Hz, V	Ω	A
Symbol	L	-	DCR	I _r
SWRB0704A-3R3NT	3.3±30%	100k, 0.3V	0.024	2.30
SWRB0704A-4R7NT	4.7±30%	100k, 0.3V	0.036	2.00
SWRB0704A-6R8NT	6.8±30%	100k, 0.3V	0.047	1.70
SWRB0704A-100MT	10±20%	1k, 0.3V	0.055	1.30
SWRB0704A-150MT	15±20%	1k, 0.3V	0.062	1.10
SWRB0704A-220MT	22±20%	1k, 0.3V	0.073	0.90
SWRB0704A-330MT	33±20%	1k, 0.3V	0.115	0.82
SWRB0704A-470MT	47±20%	1k, 0.3V	0.150	0.75
SWRB0704A-680MT	68±20%	1k, 0.3V	0.210	0.60
SWRB0704A-101MT	100±20%	1k, 0.3V	0.300	0.50
SWRB0704A-151MT	150±20%	1k, 0.3V	0.408	0.40
SWRB0704A-221MT	220±20%	1k, 0.3V	0.624	0.33
SWRB0704A-331MT	330±20%	1k, 0.3V	0.888	0.25
SWRB0704A-471MT	470±20%	1k, 0.3V	1.260	0.22
SWRB0704A-681MT	680±20%	1k, 0.3V	1.776	0.20

SWRB1005A TYPE

Part Number	Inductance	L Test Condition	Max. DC Resistance	Max. Rated Current
Units	μH	Hz, V	Ω	A
Symbol	L	-	DCR	I _r
SWRB1005A-100MT	10±20%	1k, 0.3V	0.044	3.00
SWRB1005A-150MT	15±20%	1k, 0.3V	0.057	2.40
SWRB1005A-220MT	22±20%	1k, 0.3V	0.071	2.10
SWRB1005A-330MT	33±20%	1k, 0.3V	0.098	1.60
SWRB1005A-470MT	47±20%	1k, 0.3V	0.138	1.40
SWRB1005A-680MT	68±20%	1k, 0.3V	0.170	1.20
SWRB1005A-101MT	100±20%	1k, 0.3V	0.240	1.00
SWRB1005A-151MT	150±20%	1k, 0.3V	0.420	0.79
SWRB1005A-221MT	220±20%	1k, 0.3V	0.560	0.65
SWRB1005A-331MT	330±20%	1k, 0.3V	0.820	0.54
SWRB1005A-471MT	470±20%	1k, 0.3V	1.240	0.47
SWRB1005A-681MT	680±20%	1k, 0.3V	1.920	0.38

SWRB1205A TYPE

Part Number	Inductance	L Test Condition	Max. DC Resistance	Max. Rated Current
Units	μH	Hz, V	Ω	A
Symbol	L	-	DCR	I _r
SWRB1205A-6R0NT	6.0±30%	100k, 0.3V	0.020	3.60
SWRB1205A-100MT	10±20%	1k, 0.3V	0.026	3.40
SWRB1205A-150MT	15±20%	1k, 0.3V	0.031	2.80
SWRB1205A-220MT	22±20%	1k, 0.3V	0.041	2.30
SWRB1205A-330MT	33±20%	1k, 0.3V	0.050	1.90
SWRB1205A-470MT	47±20%	1k, 0.3V	0.074	1.60
SWRB1205A-680MT	68±20%	1k, 0.3V	0.101	1.30
SWRB1205A-101MT	100±20%	1k, 0.3V	0.140	1.10
SWRB1205A-151MT	150±20%	1k, 0.3V	0.228	0.88
SWRB1205A-221MT	220±20%	1k, 0.3V	0.324	0.72
SWRB1205A-331MT	330±20%	1k, 0.3V	0.492	0.59
SWRB1205A-471MT	470±20%	1k, 0.3V	0.624	0.49
SWRB1205A-681MT	680±20%	1k, 0.3V	0.912	0.43

SPECIFICATIONS

SWRB1206A TYPE

Part Number	Inductance	L Test Condition	Max. DC Resistance	Max. Rated Current
Units	μH	Hz, V	Ω	A
Symbol	L	-	DCR	I_r
SWRB1206A-2R0NT	2.0 \pm 30%	100k, 0.3V	0.014	6.20
SWRB1206A-4R2NT	4.2 \pm 30%	100k, 0.3V	0.018	5.50
SWRB1206A-7R0NT	7.0 \pm 30%	100k, 0.3V	0.021	5.00
SWRB1206A-100MT	10 \pm 20%	1k, 0.3V	0.024	4.80
SWRB1206A-150MT	15 \pm 20%	1k, 0.3V	0.028	4.20
SWRB1206A-220MT	22 \pm 20%	1k, 0.3V	0.038	3.50
SWRB1206A-330MT	33 \pm 20%	1k, 0.3V	0.049	2.80
SWRB1206A-470MT	47 \pm 20%	1k, 0.3V	0.069	2.40
SWRB1206A-680MT	68 \pm 20%	1k, 0.3V	0.094	2.00
SWRB1206A-101MT	100 \pm 20%	1k, 0.3V	0.148	1.60
SWRB1206A-221MT	220 \pm 20%	1k, 0.3V	0.328	1.00

SWRB1207A TYPE

Part Number	Inductance	L Test Condition	Max. DC Resistance	Max. Rated Current
Units	μH	Hz, V	Ω	A
Symbol	L	-	DCR	I_r
SWRB1207A-1R2NT	1.2 \pm 30%	100k, 0.3V	0.008	8.20
SWRB1207A-2R7NT	2.7 \pm 30%	100k, 0.3V	0.011	7.00
SWRB1207A-3R9NT	3.9 \pm 30%	100k, 0.3V	0.012	6.70
SWRB1207A-5R6NT	5.6 \pm 30%	100k, 0.3V	0.014	6.30
SWRB1207A-6R8NT	6.8 \pm 30%	100k, 0.3V	0.015	5.90
SWRB1207A-100MT	10 \pm 20%	1k, 0.3V	0.018	5.40
SWRB1207A-150MT	15 \pm 20%	1k, 0.3V	0.022	4.70
SWRB1207A-220MT	22 \pm 20%	1k, 0.3V	0.032	4.00
SWRB1207A-330MT	33 \pm 20%	1k, 0.3V	0.047	3.20
SWRB1207A-470MT	47 \pm 20%	1k, 0.3V	0.063	2.70
SWRB1207A-680MT	68 \pm 20%	1k, 0.3V	0.093	2.00
SWRB1207A-101MT	100 \pm 20%	1k, 0.3V	0.150	1.90
SWRB1207A-151MT	150 \pm 20%	1k, 0.3V	0.210	1.50
SWRB1207A-221MT	220 \pm 20%	1k, 0.3V	0.310	1.30

※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)