

Wire Wound SMD Power Inductors – SWRB-A Series

Operating Temperature: -25℃~+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

①

XXXX

②

A

③

-XXX

④

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⑤

T

⑥

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

| | |
|---|---------------------|
| ② | External Dimensions |
| | 0603~1207 |

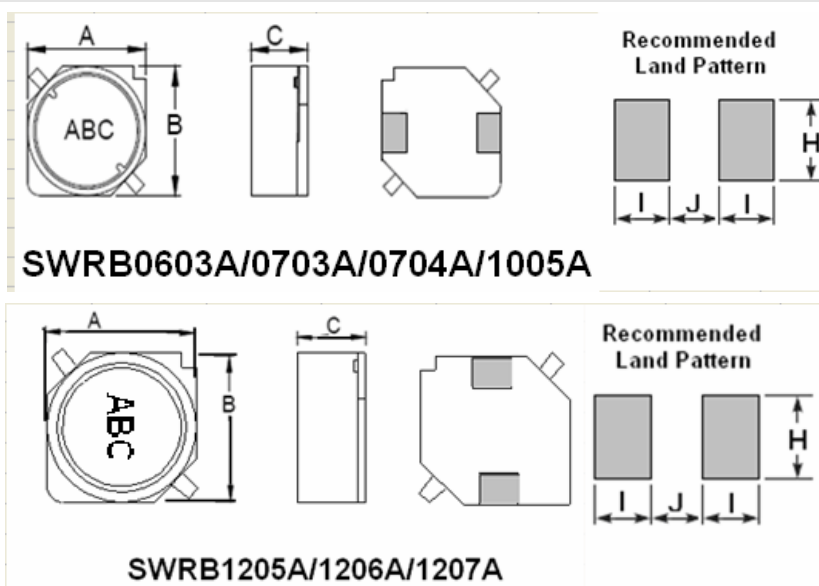
| | |
|---|---------------|
| ③ | Configuration |
| A | A Type |

| | |
|---------|--------------------|
| 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

| 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 | Ir |
| SWRB0603A-4R7NT | 4.7±30% | 100k, 0.3V | 0.034 | 1.60 |
| SWRB0603A-6R8NT | 6.8±30% | 100k, 0.3V | 0.042 | 1.50 |
| SWRB0603A-8R2NT | 8.2±30% | 100k, 0.3V | 0.052 | 1.40 |
| SWRB0603A-100MT | 10±20% | 1k, 0.3V | 0.064 | 1.30 |
| SWRB0603A-150MT | 15±20% | 1k, 0.3V | 0.089 | 1.00 |
| SWRB0603A-220MT | 22±20% | 1k, 0.3V | 0.125 | 0.77 |
| SWRB0603A-330MT | 33±20% | 1k, 0.3V | 0.178 | 0.69 |
| SWRB0603A-470MT | 47±20% | 1k, 0.3V | 0.252 | 0.59 |
| SWRB0603A-680MT | 68±20% | 1k, 0.3V | 0.348 | 0.50 |
| SWRB0603A-820MT | 82±20% | 1k, 0.3V | 0.450 | 0.45 |
| SWRB0603A-101MT | 100±20% | 1k, 0.3V | 0.516 | 0.42 |
| SWRB0603A-151MT | 150±20% | 1k, 0.3V | 0.780 | 0.34 |
| SWRB0603A-221MT | 220±20% | 1k, 0.3V | 1.176 | 0.26 |

SWRB0703A

| 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 | Ir |
| SWRB0703A-3R3NT | 3.3±30% | 100k, 0.3V | 0.028 | 1.90 |
| SWRB0703A-4R7NT | 4.7±30% | 100k, 0.3V | 0.043 | 1.70 |
| SWRB0703A-6R8NT | 6.8±30% | 100k, 0.3V | 0.049 | 1.60 |
| SWRB0703A-8R2NT | 8.2±30% | 100k, 0.3V | 0.059 | 1.50 |
| SWRB0703A-100MT | 10±20% | 1k, 0.3V | 0.064 | 1.40 |
| SWRB0703A-150MT | 15±20% | 1k, 0.3V | 0.090 | 1.10 |
| SWRB0703A-220MT | 22±20% | 1k, 0.3V | 0.132 | 0.96 |
| SWRB0703A-330MT | 33±20% | 1k, 0.3V | 0.192 | 0.75 |
| SWRB0703A-470MT | 47±20% | 1k, 0.3V | 0.288 | 0.67 |
| SWRB0703A-680MT | 68±20% | 1k, 0.3V | 0.372 | 0.59 |
| SWRB0703A-820MT | 82±20% | 1k, 0.3V | 0.455 | 0.52 |
| SWRB0703A-101MT | 100±20% | 1k, 0.3V | 0.540 | 0.45 |
| SWRB0703A-151MT | 150±20% | 1k, 0.3V | 0.780 | 0.37 |
| SWRB0703A-221MT | 220±20% | 1k, 0.3V | 1.260 | 0.29 |
| SWRB0703A-331MT | 330±20% | 1k, 0.3V | 2.004 | 0.22 |
| SWRB0703A-471MT | 470±20% | 1k, 0.3V | 2.460 | 0.20 |

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Specifications subject to change without notice. Please check our website for latest information. Revised 2012/12/25

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SPECIFICATIONS

SWRB0704A

| 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 |
| 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-8R2NT | 8.2±30% | 100k, 0.3V | 0.051 | 1.50 |
| 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-820MT | 82±20% | 1k, 0.3V | 0.260 | 0.55 |
| 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

| 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 |
| 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 | 0.14 | 1.40 |
| SWRB1005A-680MT | 68±20% | 1k, 0.3V | 0.17 | 1.20 |
| SWRB1005A-820MT | 82±20% | 1k, 0.3V | 0.21 | 1.10 |
| SWRB1005A-101MT | 100±20% | 1k, 0.3V | 0.24 | 1.00 |
| SWRB1005A-151MT | 150±20% | 1k, 0.3V | 0.42 | 0.79 |
| SWRB1005A-221MT | 220±20% | 1k, 0.3V | 0.56 | 0.65 |
| SWRB1005A-331MT | 330±20% | 1k, 0.3V | 0.82 | 0.54 |
| SWRB1005A-471MT | 470±20% | 1k, 0.3V | 1.24 | 0.47 |
| SWRB1005A-681MT | 680±20% | 1k, 0.3V | 1.92 | 0.38 |

SWRB1205A

| 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 |
| SWRB1205A-6R8NT | 6.8±30% | 100k, 0.3V | 0.023 | 3.60 |
| SWRB1205A-8R2NT | 8.2±30% | 100k, 0.3V | 0.025 | 3.50 |
| 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-820MT | 82±20% | 1k, 0.3V | 0.125 | 1.20 |

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SPECIFICATIONS

SWRB1205A

| 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 |
| 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 |

SWRB1206A

| 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 |
| SWRB1206A-2R0NT | 2.0±30% | 100k, 0.3V | 0.014 | 6.20 |
| SWRB1206A-2R2NT | 2.2±30% | 100k, 0.3V | 0.016 | 5.50 |
| SWRB1206A-4R2NT | 4.2±30% | 100k, 0.3V | 0.018 | 5.50 |
| SWRB1206A-4R7NT | 4.7±30% | 100k, 0.3V | 0.018 | 5.20 |
| SWRB1206A-6R8NT | 6.8±30% | 100k, 0.3V | 0.021 | 5.00 |
| SWRB1206A-8R2NT | 8.2±30% | 100k, 0.3V | 0.022 | 4.90 |
| SWRB1206A-100MT | 10±20% | 1k, 0.3V | 0.024 | 4.80 |
| SWRB1206A-150MT | 15±20% | 1k, 0.3V | 0.028 | 4.20 |
| SWRB1206A-220MT | 22±20% | 1k, 0.3V | 0.038 | 3.50 |
| SWRB1206A-330MT | 33±20% | 1k, 0.3V | 0.049 | 2.80 |
| SWRB1206A-470MT | 47±20% | 1k, 0.3V | 0.069 | 2.40 |
| SWRB1206A-680MT | 68±20% | 1k, 0.3V | 0.094 | 2.00 |
| SWRB1206A-820MT | 82±20% | 1k, 0.3V | 0.120 | 1.80 |
| SWRB1206A-101MT | 100±20% | 1k, 0.3V | 0.148 | 1.60 |
| SWRB1206A-221MT | 220±20% | 1k, 0.3V | 0.328 | 1.00 |

SWRB1207A

| 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 |
| SWRB1207A-1R2NT | 1.2±30% | 100k, 0.3V | 0.008 | 8.20 |
| SWRB1207A-2R7NT | 2.7±30% | 100k, 0.3V | 0.011 | 7.00 |
| SWRB1207A-3R9NT | 3.9±30% | 100k, 0.3V | 0.012 | 6.70 |
| SWRB1207A-5R6NT | 5.6±30% | 100k, 0.3V | 0.014 | 6.30 |
| SWRB1207A-6R8NT | 6.8±30% | 100k, 0.3V | 0.015 | 5.90 |
| SWRB1207A-100MT | 10±20% | 1k, 0.3V | 0.018 | 5.40 |
| SWRB1207A-150MT | 15±20% | 1k, 0.3V | 0.022 | 4.70 |
| SWRB1207A-220MT | 22±20% | 1k, 0.3V | 0.032 | 4.00 |
| SWRB1207A-330MT | 33±20% | 1k, 0.3V | 0.047 | 3.20 |
| SWRB1207A-470MT | 47±20% | 1k, 0.3V | 0.063 | 2.70 |
| SWRB1207A-680MT | 68±20% | 1k, 0.3V | 0.093 | 2.00 |
| SWRB1207A-101MT | 100±20% | 1k, 0.3V | 0.150 | 1.90 |
| SWRB1207A-151MT | 150±20% | 1k, 0.3V | 0.210 | 1.50 |
| SWRB1207A-221MT | 220±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)