

Wire Wound SMD Power Inductors – SWRB-S Series

Operating Temperature: -40°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 **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 |

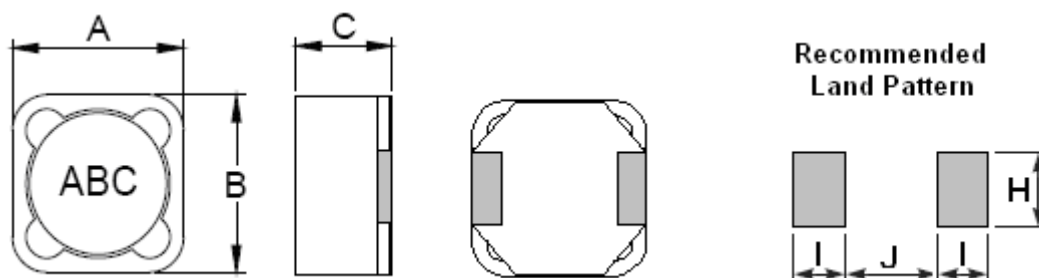
| | |
|---|---------------|
| ③ | Configuration |
| S | S Type Base |

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

SPECIFICATIONS

SWRB1204S TYPE

| Part Number | Inductance | L Test Condition | Max. DC Resistance | Max. Rated Current |
|-----------------|---------------|------------------|--------------------|--------------------|
| Units | μH | Hz, V | Ω | A |
| Symbol | L | - | DCR | I_r |
| 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 | I_r |
| 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 |

SPECIFICATIONS

SWRB1205S TYPE

| Part Number | Inductance | L Test Condition | Max. DC Resistance | Max. Rated Current |
|-----------------|---------------|------------------|--------------------|--------------------|
| Units | μH | Hz, V | Ω | 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 | μH | Hz, V | Ω | 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 |

※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).

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