

# Wire Wound SMD Power Inductors – SWRH – B Series



Operating temperature: -40°C ~+125°C (Including Self-heating)

## FEATURES

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

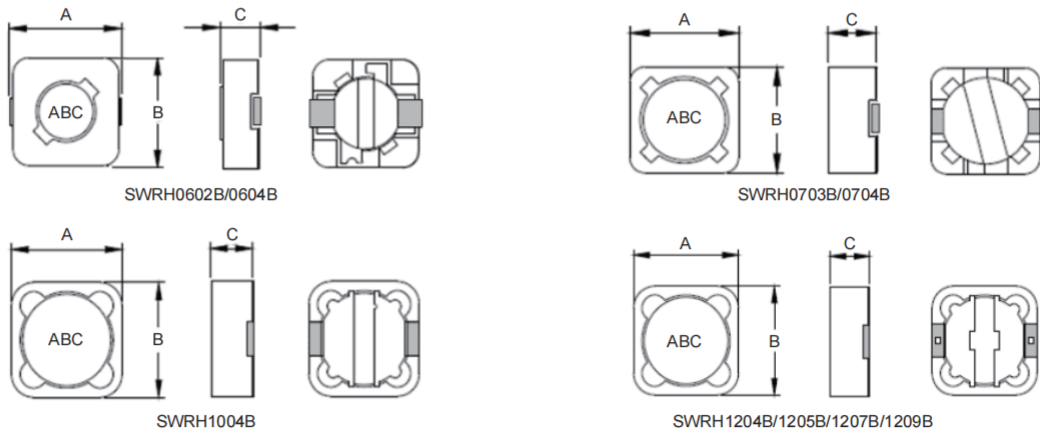
## APPLICATIONS

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

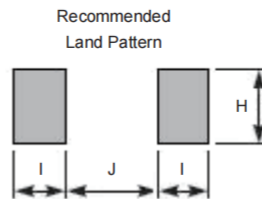
## PRODUCT IDENTIFICATION

|                             |  |                               |             |                        |                      |
|-----------------------------|--|-------------------------------|-------------|------------------------|----------------------|
| <b>1</b>                    | <b>2</b>   | <b>3</b>                      | <b>4</b>    | <b>5</b>               | <b>6</b>             |
| <b>SWRH</b>                 | <b>0602</b>  | <b>B</b>                      | <b>-3R3</b> | <b>N</b>               | <b>T</b>             |
| <b>1</b> Type               |  | <b>2</b> External Dimensions  |             | <b>3</b> Configuration |                      |
| SWRH                        | Wire Wound SMD Type Power Inductors (With Metallic Base) | 0602~1209                     |             | B                      | B Type Base          |
| <b>4</b> Nominal Inductance |  | <b>5</b> Inductance Tolerance |             | <b>6</b> Packing       |                      |
| Example                     | Nominal Value  | M                             | ±20%        | T                      | Tape Carrier Package |
| 3R3                         | 3.3μH  | N                             | ±30%        |                        |                      |
| 100                         | 10μH   |                               |             |                        |                      |
| 101                         | 100μH  |                               |             |                        |                      |

## SHAPE AND DIMENSIONS



## SHAPE AND DIMENSIONS



| Series    | A max. | B max. | C max. | I typ. | J typ. | H typ. |
|-----------|--------|--------|--------|--------|--------|--------|
| SWRH0602B | 7.0    | 6.8    | 3.0    | 1.4    | 4.6    | 1.9    |
| SWRH0604B | 7.0    | 6.8    | 5.0    | 1.4    | 4.6    | 1.9    |
| SWRH0703B | 7.8    | 7.8    | 4.0    | 1.6    | 4.8    | 2.2    |
| SWRH0704B | 7.8    | 7.8    | 5.0    | 1.6    | 4.8    | 2.2    |
| SWRH1004B | 10.5   | 10.5   | 5.0    | 2.0    | 6.8    | 4.4    |
| SWRH1204B | 12.5   | 12.5   | 5.0    | 2.9    | 7.0    | 5.4    |
| SWRH1205B | 12.5   | 12.5   | 6.0    | 2.9    | 7.0    | 5.4    |
| SWRH1207B | 12.5   | 12.5   | 8.0    | 2.9    | 7.0    | 5.4    |
| SWRH1209B | 12.5   | 12.5   | 10.0   | 2.9    | 7.0    | 5.4    |

Unit: mm

## SPECIFICATIONS SWRH0602B 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 <sub>r</sub>     |
| SWRH0602B-3R3NT | 3.3 $\pm$ 30% | 100k, 0.3V       | 0.068              | 1.94               |
| SWRH0602B-4R7NT | 4.7 $\pm$ 30% | 100k, 0.3V       | 0.080              | 1.63               |
| SWRH0602B-5R6NT | 5.6 $\pm$ 30% | 100k, 0.3V       | 0.096              | 1.40               |
| SWRH0602B-100MT | 10 $\pm$ 20%  | 1k, 0.3V         | 0.150              | 1.10               |
| SWRH0602B-120MT | 12 $\pm$ 20%  | 1k, 0.3V         | 0.200              | 1.00               |
| SWRH0602B-150MT | 15 $\pm$ 20%  | 1k, 0.3V         | 0.230              | 0.90               |
| SWRH0602B-180MT | 18 $\pm$ 20%  | 1k, 0.3V         | 0.270              | 0.80               |
| SWRH0602B-220MT | 22 $\pm$ 20%  | 1k, 0.3V         | 0.340              | 0.74               |
| SWRH0602B-270MT | 27 $\pm$ 20%  | 1k, 0.3V         | 0.380              | 0.66               |
| SWRH0602B-330MT | 33 $\pm$ 20%  | 1k, 0.3V         | 0.450              | 0.59               |
| SWRH0602B-390MT | 39 $\pm$ 20%  | 1k, 0.3V         | 0.490              | 0.54               |
| SWRH0602B-470MT | 47 $\pm$ 20%  | 1k, 0.3V         | 0.690              | 0.50               |
| SWRH0602B-560MT | 56 $\pm$ 20%  | 1k, 0.3V         | 0.780              | 0.46               |
| SWRH0602B-680MT | 68 $\pm$ 20%  | 1k, 0.3V         | 1.070              | 0.42               |
| SWRH0602B-820MT | 82 $\pm$ 20%  | 1k, 0.3V         | 1.210              | 0.38               |
| SWRH0602B-101MT | 100 $\pm$ 20% | 1k, 0.3V         | 1.390              | 0.34               |
| SWRH0602B-121MT | 120 $\pm$ 20% | 1k, 0.3V         | 1.900              | 0.31               |
| SWRH0602B-151MT | 150 $\pm$ 20% | 1k, 0.3V         | 2.180              | 0.28               |
| SWRH0602B-181MT | 180 $\pm$ 20% | 1k, 0.3V         | 2.770              | 0.26               |
| SWRH0602B-221MT | 220 $\pm$ 20% | 1k, 0.3V         | 3.120              | 0.23               |
| SWRH0602B-271MT | 270 $\pm$ 20% | 1k, 0.3V         | 4.380              | 0.22               |
| SWRH0602B-331MT | 330 $\pm$ 20% | 1k, 0.3V         | 4.940              | 0.19               |

## SWRH0604B 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 <sub>r</sub>     |
| SWRH0604B-100MT | 10 $\pm$ 20%  | 1k, 0.3V         | 0.120              | 1.35               |
| SWRH0604B-120MT | 12 $\pm$ 20%  | 1k, 0.3V         | 0.130              | 1.20               |
| SWRH0604B-150MT | 15 $\pm$ 20%  | 1k, 0.3V         | 0.180              | 1.10               |

**SPECIFICATIONS** SWRH0604B 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 <sub>r</sub>     |
| SWRH0604B-180MT | 18 $\pm$ 20%  | 1k, 0.3V         | 0.240              | 1.00               |
| SWRH0604B-220MT | 22 $\pm$ 20%  | 1k, 0.3V         | 0.270              | 0.91               |
| SWRH0604B-270MT | 27 $\pm$ 20%  | 1k, 0.3V         | 0.300              | 0.82               |
| SWRH0604B-330MT | 33 $\pm$ 20%  | 1k, 0.3V         | 0.330              | 0.75               |
| SWRH0604B-390MT | 39 $\pm$ 20%  | 1k, 0.3V         | 0.370              | 0.69               |
| SWRH0604B-470MT | 47 $\pm$ 20%  | 1k, 0.3V         | 0.520              | 0.62               |
| SWRH0604B-560MT | 56 $\pm$ 20%  | 1k, 0.3V         | 0.560              | 0.58               |
| SWRH0604B-680MT | 68 $\pm$ 20%  | 1k, 0.3V         | 0.630              | 0.52               |
| SWRH0604B-820MT | 82 $\pm$ 20%  | 1k, 0.3V         | 0.710              | 0.47               |
| SWRH0604B-101MT | 100 $\pm$ 20% | 1k, 0.3V         | 1.030              | 0.43               |
| SWRH0604B-121MT | 120 $\pm$ 20% | 1k, 0.3V         | 1.150              | 0.39               |
| SWRH0604B-151MT | 150 $\pm$ 20% | 1k, 0.3V         | 1.680              | 0.35               |
| SWRH0604B-181MT | 180 $\pm$ 20% | 1k, 0.3V         | 1.870              | 0.32               |
| SWRH0604B-221MT | 220 $\pm$ 20% | 1k, 0.3V         | 2.080              | 0.29               |
| SWRH0604B-271MT | 270 $\pm$ 20% | 1k, 0.3V         | 2.370              | 0.26               |
| SWRH0604B-331MT | 330 $\pm$ 20% | 1k, 0.3V         | 2.670              | 0.23               |
| SWRH0604B-391MT | 390 $\pm$ 20% | 1k, 0.3V         | 2.940              | 0.22               |
| SWRH0604B-471MT | 470 $\pm$ 20% | 1k, 0.3V         | 3.930              | 0.20               |

## SWRH0703B 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 <sub>r</sub>     |
| SWRH0703B-2R2NT | 2.2 $\pm$ 30% | 100k, 0.3V       | 0.025              | 3.00               |
| SWRH0703B-3R3NT | 3.3 $\pm$ 30% | 100k, 0.3V       | 0.035              | 2.50               |
| SWRH0703B-4R7NT | 4.7 $\pm$ 30% | 100k, 0.3V       | 0.031              | 2.00               |
| SWRH0703B-100MT | 10 $\pm$ 20%  | 1k, 0.3V         | 0.072              | 1.68               |
| SWRH0703B-120MT | 12 $\pm$ 20%  | 1k, 0.3V         | 0.098              | 1.52               |
| SWRH0703B-150MT | 15 $\pm$ 20%  | 1k, 0.3V         | 0.130              | 1.33               |
| SWRH0703B-180MT | 18 $\pm$ 20%  | 1k, 0.3V         | 0.140              | 1.20               |
| SWRH0703B-220MT | 22 $\pm$ 20%  | 1k, 0.3V         | 0.190              | 1.07               |
| SWRH0703B-270MT | 27 $\pm$ 20%  | 1k, 0.3V         | 0.210              | 0.96               |
| SWRH0703B-330MT | 33 $\pm$ 20%  | 1k, 0.3V         | 0.240              | 0.91               |
| SWRH0703B-390MT | 39 $\pm$ 20%  | 1k, 0.3V         | 0.320              | 0.77               |
| SWRH0703B-470MT | 47 $\pm$ 20%  | 1k, 0.3V         | 0.360              | 0.76               |
| SWRH0703B-560MT | 56 $\pm$ 20%  | 1k, 0.3V         | 0.470              | 0.68               |
| SWRH0703B-680MT | 68 $\pm$ 20%  | 1k, 0.3V         | 0.520              | 0.61               |
| SWRH0703B-820MT | 82 $\pm$ 20%  | 1k, 0.3V         | 0.690              | 0.57               |
| SWRH0703B-101MT | 100 $\pm$ 20% | 1k, 0.3V         | 0.790              | 0.50               |
| SWRH0703B-121MT | 120 $\pm$ 20% | 1k, 0.3V         | 0.890              | 0.49               |
| SWRH0703B-151MT | 150 $\pm$ 20% | 1k, 0.3V         | 1.270              | 0.43               |
| SWRH0703B-181MT | 180 $\pm$ 20% | 1k, 0.3V         | 1.450              | 0.39               |
| SWRH0703B-221MT | 220 $\pm$ 20% | 1k, 0.3V         | 1.650              | 0.35               |
| SWRH0703B-271MT | 270 $\pm$ 20% | 1k, 0.3V         | 2.310              | 0.32               |
| SWRH0703B-331MT | 330 $\pm$ 20% | 1k, 0.3V         | 2.620              | 0.28               |
| SWRH0703B-391MT | 390 $\pm$ 20% | 1k, 0.3V         | 2.940              | 0.26               |
| SWRH0703B-471MT | 470 $\pm$ 20% | 1k, 0.3V         | 4.180              | 0.24               |
| SWRH0703B-561MT | 560 $\pm$ 20% | 1k, 0.3V         | 4.670              | 0.22               |

## SPECIFICATIONS SWRH0704B 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 <sub>r</sub>     |
| SWRH0704B-1R0NT | 1.0±30%       | 100k, 0.3V       | 0.013              | 9.00               |
| SWRH0704B-1R5NT | 1.5±30%       | 100k, 0.3V       | 0.0145             | 7.60               |
| SWRH0704B-2R2MT | 2.2±20%       | 100k, 0.3V       | 0.018              | 6.50               |
| SWRH0704B-3R3MT | 3.3±20%       | 100k, 0.3V       | 0.024              | 5.60               |
| SWRH0704B-3R6MT | 3.6±20%       | 100k, 0.3V       | 0.026              | 5.00               |
| SWRH0704B-4R7MT | 4.7±20%       | 100k, 0.3V       | 0.030              | 4.40               |
| SWRH0704B-6R8MT | 6.8±20%       | 100k, 0.3V       | 0.041              | 3.00               |
| SWRH0704B-8R2MT | 8.2±20%       | 100k, 0.3V       | 0.048              | 2.90               |
| SWRH0704B-100MT | 10±20%        | 1k, 0.3V         | 0.049              | 1.84               |
| SWRH0704B-120MT | 12±20%        | 1k, 0.3V         | 0.058              | 1.71               |
| SWRH0704B-150MT | 15±20%        | 1k, 0.3V         | 0.081              | 1.47               |
| SWRH0704B-180MT | 18±20%        | 1k, 0.3V         | 0.091              | 1.31               |
| SWRH0704B-220MT | 22±20%        | 1k, 0.3V         | 0.110              | 1.23               |
| SWRH0704B-270MT | 27±20%        | 1k, 0.3V         | 0.150              | 1.12               |
| SWRH0704B-330MT | 33±20%        | 1k, 0.3V         | 0.170              | 0.96               |
| SWRH0704B-390MT | 39±20%        | 1k, 0.3V         | 0.230              | 0.91               |
| SWRH0704B-470MT | 47±20%        | 1k, 0.3V         | 0.260              | 0.88               |
| SWRH0704B-560MT | 56±20%        | 1k, 0.3V         | 0.350              | 0.75               |
| SWRH0704B-680MT | 68±20%        | 1k, 0.3V         | 0.380              | 0.69               |
| SWRH0704B-820MT | 82±20%        | 1k, 0.3V         | 0.430              | 0.61               |
| SWRH0704B-101MT | 100±20%       | 1k, 0.3V         | 0.610              | 0.60               |
| SWRH0704B-121MT | 120±20%       | 1k, 0.3V         | 0.660              | 0.52               |
| SWRH0704B-151MT | 150±20%       | 1k, 0.3V         | 0.880              | 0.46               |
| SWRH0704B-181MT | 180±20%       | 1k, 0.3V         | 0.980              | 0.42               |
| SWRH0704B-221MT | 220±20%       | 1k, 0.3V         | 1.170              | 0.36               |
| SWRH0704B-271MT | 270±20%       | 1k, 0.3V         | 1.640              | 0.34               |
| SWRH0704B-331MT | 330±20%       | 1k, 0.3V         | 1.860              | 0.32               |
| SWRH0704B-391MT | 390±20%       | 1k, 0.3V         | 2.850              | 0.29               |
| SWRH0704B-471MT | 470±20%       | 1k, 0.3V         | 3.010              | 0.26               |
| SWRH0704B-561MT | 560±20%       | 1k, 0.3V         | 3.620              | 0.23               |
| SWRH0704B-681MT | 680±20%       | 1k, 0.3V         | 3.820              | 0.20               |

## SWRH1004B 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 <sub>r</sub>     |
| SWRH1004B-2R2NT | 2.2±30%       | 100k, 0.3V       | 0.018              | 4.00               |
| SWRH1004B-3R8NT | 3.8±30%       | 100k, 0.3V       | 0.028              | 3.50               |
| SWRH1004B-4R7NT | 4.7±30%       | 100k, 0.3V       | 0.035              | 3.20               |
| SWRH1004B-6R8NT | 6.8±30%       | 100k, 0.3V       | 0.044              | 2.80               |
| SWRH1004B-100MT | 10±20%        | 1k, 0.3V         | 0.050              | 2.40               |
| SWRH1004B-120MT | 12±20%        | 1k, 0.3V         | 0.054              | 2.25               |
| SWRH1004B-150MT | 15±20%        | 1k, 0.3V         | 0.061              | 2.00               |
| SWRH1004B-180MT | 18±20%        | 1k, 0.3V         | 0.084              | 1.80               |
| SWRH1004B-220MT | 22±20%        | 1k, 0.3V         | 0.094              | 1.65               |
| SWRH1004B-270MT | 27±20%        | 1k, 0.3V         | 0.110              | 1.45               |
| SWRH1004B-330MT | 33±20%        | 1k, 0.3V         | 0.150              | 1.35               |
| SWRH1004B-390MT | 39±20%        | 1k, 0.3V         | 0.170              | 1.20               |
| SWRH1004B-470MT | 47±20%        | 1k, 0.3V         | 0.210              | 1.10               |
| SWRH1004B-560MT | 56±20%        | 1k, 0.3V         | 0.230              | 1.00               |
| SWRH1004B-680MT | 68±20%        | 1k, 0.3V         | 0.260              | 0.93               |
| SWRH1004B-820MT | 82±20%        | 1k, 0.3V         | 0.360              | 0.84               |
| SWRH1004B-101MT | 100±20%       | 1k, 0.3V         | 0.410              | 0.76               |
| SWRH1004B-121MT | 120±20%       | 1k, 0.3V         | 0.450              | 0.70               |
| SWRH1004B-151MT | 150±20%       | 1k, 0.3V         | 0.640              | 0.63               |
| SWRH1004B-181MT | 180±20%       | 1k, 0.3V         | 0.840              | 0.57               |
| SWRH1004B-221MT | 220±20%       | 1k, 0.3V         | 0.960              | 0.52               |
| SWRH1004B-271MT | 270±20%       | 1k, 0.3V         | 1.070              | 0.47               |
| SWRH1004B-331MT | 330±20%       | 1k, 0.3V         | 1.370              | 0.43               |
| SWRH1004B-391MT | 390±20%       | 1k, 0.3V         | 1.550              | 0.39               |
| SWRH1004B-471MT | 470±20%       | 1k, 0.3V         | 1.740              | 0.36               |

## SPECIFICATIONS

## SWRH1204B TYPE

| Part Number     | Inductance    | L Test Condition | Max. DC Resistance | Max. Rated Current |
|-----------------|---------------|------------------|--------------------|--------------------|
| Units           | $\mu\text{H}$ | Hz, V            | $\Omega$           | A                  |
| Symbol          | L             | -                | DCR                | $I_r$              |
| SWRH1204B-1R0NT | 1.0 $\pm$ 30% | 100k, 0.3V       | 0.010              | 7.00               |
| SWRH1204B-2R2NT | 2.2 $\pm$ 30% | 100k, 0.3V       | 0.014              | 5.70               |
| SWRH1204B-3R3NT | 3.3 $\pm$ 30% | 100k, 0.3V       | 0.015              | 5.20               |
| SWRH1204B-4R7NT | 4.7 $\pm$ 30% | 100k, 0.3V       | 0.018              | 4.90               |
| SWRH1204B-5R6NT | 5.6 $\pm$ 30% | 100k, 0.3V       | 0.020              | 4.50               |
| SWRH1204B-6R8NT | 6.8 $\pm$ 30% | 100k, 0.3V       | 0.023              | 4.20               |
| SWRH1204B-8R2NT | 8.2 $\pm$ 30% | 100k, 0.3V       | 0.026              | 4.00               |
| SWRH1204B-100MT | 10 $\pm$ 20%  | 1k, 0.3V         | 0.028              | 3.80               |
| SWRH1204B-120MT | 12 $\pm$ 20%  | 1k, 0.3V         | 0.038              | 3.50               |
| SWRH1204B-150MT | 15 $\pm$ 20%  | 1k, 0.3V         | 0.050              | 3.20               |
| SWRH1204B-180MT | 18 $\pm$ 20%  | 1k, 0.3V         | 0.057              | 3.10               |
| SWRH1204B-220MT | 22 $\pm$ 20%  | 1k, 0.3V         | 0.066              | 2.90               |
| SWRH1204B-270MT | 27 $\pm$ 20%  | 1k, 0.3V         | 0.080              | 2.80               |
| SWRH1204B-330MT | 33 $\pm$ 20%  | 1k, 0.3V         | 0.097              | 2.70               |
| SWRH1204B-390MT | 39 $\pm$ 20%  | 1k, 0.3V         | 0.132              | 2.10               |
| SWRH1204B-470MT | 47 $\pm$ 20%  | 1k, 0.3V         | 0.160              | 1.90               |
| SWRH1204B-560MT | 56 $\pm$ 20%  | 1k, 0.3V         | 0.190              | 1.80               |
| SWRH1204B-680MT | 68 $\pm$ 20%  | 1k, 0.3V         | 0.220              | 1.50               |
| SWRH1204B-820MT | 82 $\pm$ 20%  | 1k, 0.3V         | 0.260              | 1.30               |
| SWRH1204B-101MT | 100 $\pm$ 20% | 1k, 0.3V         | 0.310              | 1.20               |
| SWRH1204B-121MT | 120 $\pm$ 20% | 1k, 0.3V         | 0.380              | 1.10               |
| SWRH1204B-151MT | 150 $\pm$ 20% | 1k, 0.3V         | 0.530              | 0.95               |
| SWRH1204B-181MT | 180 $\pm$ 20% | 1k, 0.3V         | 0.620              | 0.85               |
| SWRH1204B-221MT | 220 $\pm$ 20% | 1k, 0.3V         | 0.700              | 0.80               |
| SWRH1204B-271MT | 270 $\pm$ 20% | 1k, 0.3V         | 0.870              | 0.60               |
| SWRH1204B-331MT | 330 $\pm$ 20% | 1k, 0.3V         | 0.990              | 0.50               |
| SWRH1204B-471MT | 470 $\pm$ 20% | 1k, 0.3V         | 1.100              | 0.25               |

## SWRH1205B TYPE

| Part Number     | Inductance    | L Test Condition | Max. DC Resistance | Max. Rated Current |
|-----------------|---------------|------------------|--------------------|--------------------|
| Units           | $\mu\text{H}$ | Hz, V            | $\Omega$           | A                  |
| Symbol          | L             | -                | DCR                | $I_r$              |
| SWRH1205B-1R0NT | 1.0 $\pm$ 30% | 100k, 0.3V       | 0.010              | 8.00               |
| SWRH1205B-2R2NT | 2.2 $\pm$ 30% | 100k, 0.3V       | 0.014              | 7.80               |
| SWRH1205B-2R4NT | 2.4 $\pm$ 30% | 100k, 0.3V       | 0.014              | 7.50               |
| SWRH1205B-3R3NT | 3.3 $\pm$ 30% | 100k, 0.3V       | 0.014              | 6.80               |
| SWRH1205B-4R7NT | 4.7 $\pm$ 30% | 100k, 0.3V       | 0.020              | 5.60               |
| SWRH1205B-5R8NT | 5.8 $\pm$ 30% | 100k, 0.3V       | 0.020              | 5.20               |
| SWRH1205B-8R2NT | 8.2 $\pm$ 30% | 100k, 0.3V       | 0.021              | 4.40               |
| SWRH1205B-100MT | 10 $\pm$ 20%  | 1k, 0.3V         | 0.025              | 4.00               |
| SWRH1205B-120MT | 12 $\pm$ 20%  | 1k, 0.3V         | 0.027              | 3.50               |
| SWRH1205B-150MT | 15 $\pm$ 20%  | 1k, 0.3V         | 0.030              | 3.30               |
| SWRH1205B-180MT | 18 $\pm$ 20%  | 1k, 0.3V         | 0.034              | 3.00               |
| SWRH1205B-220MT | 22 $\pm$ 20%  | 1k, 0.3V         | 0.036              | 2.80               |
| SWRH1205B-270MT | 27 $\pm$ 20%  | 1k, 0.3V         | 0.051              | 2.30               |
| SWRH1205B-330MT | 33 $\pm$ 20%  | 1k, 0.3V         | 0.057              | 2.10               |
| SWRH1205B-390MT | 39 $\pm$ 20%  | 1k, 0.3V         | 0.068              | 2.00               |
| SWRH1205B-470MT | 47 $\pm$ 20%  | 1k, 0.3V         | 0.075              | 1.80               |
| SWRH1205B-560MT | 56 $\pm$ 20%  | 1k, 0.3V         | 0.110              | 1.70               |
| SWRH1205B-680MT | 68 $\pm$ 20%  | 1k, 0.3V         | 0.120              | 1.50               |
| SWRH1205B-820MT | 82 $\pm$ 20%  | 1k, 0.3V         | 0.140              | 1.40               |
| SWRH1205B-101MT | 100 $\pm$ 20% | 1k, 0.3V         | 0.160              | 1.30               |

## SPECIFICATIONS

## SWRH1205B 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 <sub>r</sub>     |
| SWRH1205B-121MT | 120 $\pm$ 20%  | 1k, 0.3V         | 0.170              | 1.10               |
| SWRH1205B-151MT | 150 $\pm$ 20%  | 1k, 0.3V         | 0.230              | 1.00               |
| SWRH1205B-181MT | 180 $\pm$ 20%  | 1k, 0.3V         | 0.290              | 0.90               |
| SWRH1205B-221MT | 220 $\pm$ 20%  | 1k, 0.3V         | 0.400              | 0.80               |
| SWRH1205B-271MT | 270 $\pm$ 20%  | 1k, 0.3V         | 0.460              | 0.75               |
| SWRH1205B-331MT | 330 $\pm$ 20%  | 1k, 0.3V         | 0.510              | 0.68               |
| SWRH1205B-391MT | 390 $\pm$ 20%  | 1k, 0.3V         | 0.690              | 0.65               |
| SWRH1205B-471MT | 470 $\pm$ 20%  | 1k, 0.3V         | 0.770              | 0.58               |
| SWRH1205B-561MT | 560 $\pm$ 20%  | 1k, 0.3V         | 0.860              | 0.54               |
| SWRH1205B-681MT | 680 $\pm$ 20%  | 1k, 0.3V         | 1.200              | 0.48               |
| SWRH1205B-821MT | 820 $\pm$ 20%  | 1k, 0.3V         | 1.340              | 0.43               |
| SWRH1205B-102MT | 1000 $\pm$ 20% | 1k, 0.3V         | 1.800              | 0.40               |

## SWRH1207B 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 <sub>r</sub>     |
| SWRH1207B-1R0NT | 1.0 $\pm$ 30% | 100k, 0.3V       | 0.009              | 10.00              |
| SWRH1207B-2R2NT | 2.2 $\pm$ 30% | 100k, 0.3V       | 0.012              | 8.00               |
| SWRH1207B-2R7NT | 2.7 $\pm$ 30% | 100k, 0.3V       | 0.013              | 8.00               |
| SWRH1207B-3R3NT | 3.3 $\pm$ 30% | 100k, 0.3V       | 0.013              | 8.00               |
| SWRH1207B-3R9NT | 3.9 $\pm$ 30% | 100k, 0.3V       | 0.013              | 7.50               |
| SWRH1207B-4R5NT | 4.5 $\pm$ 30% | 100k, 0.3V       | 0.016              | 6.80               |
| SWRH1207B-4R7NT | 4.7 $\pm$ 30% | 100k, 0.3V       | 0.016              | 6.80               |
| SWRH1207B-6R1NT | 6.1 $\pm$ 30% | 100k, 0.3V       | 0.018              | 6.60               |
| SWRH1207B-6R5NT | 6.5 $\pm$ 30% | 100k, 0.3V       | 0.018              | 6.60               |
| SWRH1207B-6R8NT | 6.8 $\pm$ 30% | 100k, 0.3V       | 0.019              | 6.60               |
| SWRH1207B-7R6NT | 7.6 $\pm$ 30% | 100k, 0.3V       | 0.020              | 5.90               |
| SWRH1207B-8R2NT | 8.2 $\pm$ 30% | 100k, 0.3V       | 0.020              | 5.60               |
| SWRH1207B-100MT | 10 $\pm$ 20%  | 1k, 0.3V         | 0.021              | 5.40               |
| SWRH1207B-120MT | 12 $\pm$ 20%  | 1k, 0.3V         | 0.024              | 4.90               |
| SWRH1207B-150MT | 15 $\pm$ 20%  | 1k, 0.3V         | 0.027              | 4.50               |
| SWRH1207B-180MT | 18 $\pm$ 20%  | 1k, 0.3V         | 0.039              | 3.90               |
| SWRH1207B-220MT | 22 $\pm$ 20%  | 1k, 0.3V         | 0.043              | 3.60               |
| SWRH1207B-270MT | 27 $\pm$ 20%  | 1k, 0.3V         | 0.046              | 3.40               |
| SWRH1207B-330MT | 33 $\pm$ 20%  | 1k, 0.3V         | 0.065              | 3.00               |
| SWRH1207B-390MT | 39 $\pm$ 20%  | 1k, 0.3V         | 0.073              | 2.75               |
| SWRH1207B-470MT | 47 $\pm$ 20%  | 1k, 0.3V         | 0.100              | 2.50               |
| SWRH1207B-560MT | 56 $\pm$ 20%  | 1k, 0.3V         | 0.110              | 2.35               |
| SWRH1207B-680MT | 68 $\pm$ 20%  | 1k, 0.3V         | 0.140              | 2.10               |
| SWRH1207B-820MT | 82 $\pm$ 20%  | 1k, 0.3V         | 0.160              | 1.95               |
| SWRH1207B-101MT | 100 $\pm$ 20% | 1k, 0.3V         | 0.220              | 1.70               |
| SWRH1207B-121MT | 120 $\pm$ 20% | 1k, 0.3V         | 0.250              | 1.60               |
| SWRH1207B-151MT | 150 $\pm$ 20% | 1k, 0.3V         | 0.280              | 1.42               |
| SWRH1207B-181MT | 180 $\pm$ 20% | 1k, 0.3V         | 0.350              | 1.30               |
| SWRH1207B-221MT | 220 $\pm$ 20% | 1k, 0.3V         | 0.390              | 1.16               |
| SWRH1207B-271MT | 270 $\pm$ 20% | 1k, 0.3V         | 0.560              | 1.06               |
| SWRH1207B-331MT | 330 $\pm$ 20% | 1k, 0.3V         | 0.640              | 0.95               |
| SWRH1207B-391MT | 390 $\pm$ 20% | 1k, 0.3V         | 0.700              | 0.88               |
| SWRH1207B-471MT | 470 $\pm$ 20% | 1k, 0.3V         | 0.980              | 0.79               |
| SWRH1207B-561MT | 560 $\pm$ 20% | 1k, 0.3V         | 1.070              | 0.73               |



## SPECIFICATIONS

## SWRH1207B TYPE

| Part Number     | Inductance     | L Test Condition | Max. DC Resistance | Max. Rated Current |
|-----------------|----------------|------------------|--------------------|--------------------|
| Units           | $\mu\text{H}$  | Hz, V            | $\Omega$           | A                  |
| Symbol          | L              | -                | DCR                | $I_r$              |
| SWRH1207B-681MT | 680 $\pm$ 20%  | 1k, 0.3V         | 1.460              | 0.67               |
| SWRH1207B-821MT | 820 $\pm$ 20%  | 1k, 0.3V         | 1.640              | 0.60               |
| SWRH1207B-102MT | 1000 $\pm$ 20% | 1k, 0.3V         | 1.820              | 0.55               |

## SWRH1209B TYPE

| Part Number     | Inductance     | L Test Condition | Max. DC Resistance | Max. Rated Current |
|-----------------|----------------|------------------|--------------------|--------------------|
| Units           | $\mu\text{H}$  | Hz, V            | $\Omega$           | A                  |
| Symbol          | L              | -                | DCR                | $I_r$              |
| SWRH1209B-1R0NT | 1.0 $\pm$ 30%  | 100k, 0.3V       | 0.006              | 11.00              |
| SWRH1209B-1R8NT | 1.8 $\pm$ 30%  | 100k, 0.3V       | 0.008              | 10.20              |
| SWRH1209B-2R2NT | 2.2 $\pm$ 30%  | 100k, 0.3V       | 0.009              | 9.50               |
| SWRH1209B-3R3NT | 3.3 $\pm$ 30%  | 100k, 0.3V       | 0.010              | 9.00               |
| SWRH1209B-4R7NT | 4.7 $\pm$ 30%  | 100k, 0.3V       | 0.012              | 8.50               |
| SWRH1209B-5R6NT | 5.6 $\pm$ 30%  | 100k, 0.3V       | 0.014              | 8.00               |
| SWRH1209B-6R8NT | 6.8 $\pm$ 30%  | 100k, 0.3V       | 0.015              | 7.90               |
| SWRH1209B-8R2NT | 8.2 $\pm$ 30%  | 100k, 0.3V       | 0.017              | 7.30               |
| SWRH1209B-100MT | 10 $\pm$ 20%   | 1k, 0.3V         | 0.018              | 6.50               |
| SWRH1209B-120MT | 12 $\pm$ 20%   | 1k, 0.3V         | 0.022              | 6.30               |
| SWRH1209B-150MT | 15 $\pm$ 20%   | 1k, 0.3V         | 0.032              | 5.80               |
| SWRH1209B-180MT | 18 $\pm$ 20%   | 1k, 0.3V         | 0.035              | 5.50               |
| SWRH1209B-220MT | 22 $\pm$ 20%   | 1k, 0.3V         | 0.038              | 5.20               |
| SWRH1209B-270MT | 27 $\pm$ 20%   | 1k, 0.3V         | 0.040              | 5.00               |
| SWRH1209B-330MT | 33 $\pm$ 20%   | 1k, 0.3V         | 0.052              | 4.40               |
| SWRH1209B-390MT | 39 $\pm$ 20%   | 1k, 0.3V         | 0.066              | 4.20               |
| SWRH1209B-470MT | 47 $\pm$ 20%   | 1k, 0.3V         | 0.072              | 3.80               |
| SWRH1209B-560MT | 56 $\pm$ 20%   | 1k, 0.3V         | 0.090              | 3.40               |
| SWRH1209B-680MT | 68 $\pm$ 20%   | 1k, 0.3V         | 0.102              | 3.00               |
| SWRH1209B-820MT | 82 $\pm$ 20%   | 1k, 0.3V         | 0.112              | 2.80               |
| SWRH1209B-850MT | 85 $\pm$ 20%   | 1k, 0.3V         | 0.125              | 2.60               |
| SWRH1209B-101MT | 100 $\pm$ 20%  | 1k, 0.3V         | 0.135              | 2.50               |
| SWRH1209B-121MT | 120 $\pm$ 20%  | 1k, 0.3V         | 0.170              | 2.30               |
| SWRH1209B-151MT | 150 $\pm$ 20%  | 1k, 0.3V         | 0.190              | 2.20               |
| SWRH1209B-181MT | 180 $\pm$ 20%  | 1k, 0.3V         | 0.250              | 1.90               |
| SWRH1209B-221MT | 220 $\pm$ 20%  | 1k, 0.3V         | 0.315              | 1.70               |
| SWRH1209B-271MT | 270 $\pm$ 20%  | 1k, 0.3V         | 0.410              | 1.50               |
| SWRH1209B-331MT | 330 $\pm$ 20%  | 1k, 0.3V         | 0.450              | 1.40               |
| SWRH1209B-391MT | 390 $\pm$ 20%  | 1k, 0.3V         | 0.600              | 1.30               |
| SWRH1209B-471MT | 470 $\pm$ 20%  | 1k, 0.3V         | 0.820              | 1.20               |
| SWRH1209B-561MT | 560 $\pm$ 20%  | 1k, 0.3V         | 0.900              | 1.10               |
| SWRH1209B-681MT | 680 $\pm$ 20%  | 1k, 0.3V         | 1.200              | 1.00               |
| SWRH1209B-821MT | 820 $\pm$ 20%  | 1k, 0.3V         | 1.320              | 0.85               |
| SWRH1209B-102MT | 1000 $\pm$ 20% | 1k, 0.3V         | 1.350              | 0.78               |
| SWRH1209B-122MT | 1200 $\pm$ 20% | 1k, 0.3V         | 1.400              | 0.75               |