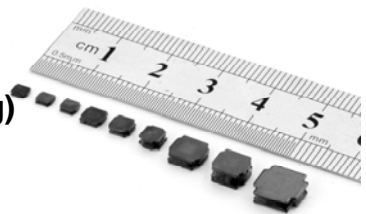


# Wire Wound SMD Power Inductor – SWPA Series

Operating temperature range: -25°C ~ +120°C (Including self-heating)



## FEATURES

- Magnetic-resin shielded construction reduces buzz noise to ultra-low levels
- Metallization on ferrite core results in excellent shock resistance and damage-free durability
- Closed magnetic circuit design reduces leakage flux and Electro Magnetic Interference (EMI)
- 30% higher current rating than conventional inductors of equal size
- Take up less PCB real estate and save more power

## APPLICATIONS

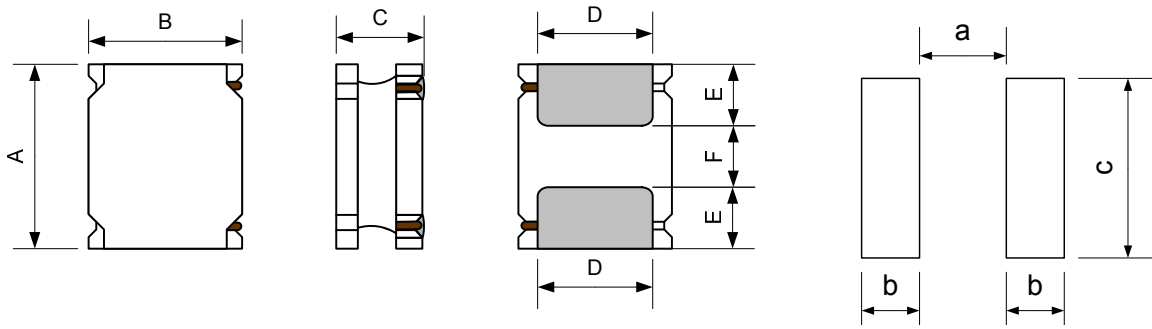
- LED Lighting
- Mobile devices with multifunction such as adding color TV and camera
- Flat-screen TVs, blue-ray disc recorders, set top boxes
- Notebooks, desktop computers, servers, graphic cards
- Portable gaming devices, personal navigation systems, personal multimedia devices
- Automotive systems
- Telecomm base stations

## PRODUCT IDENTIFICATION

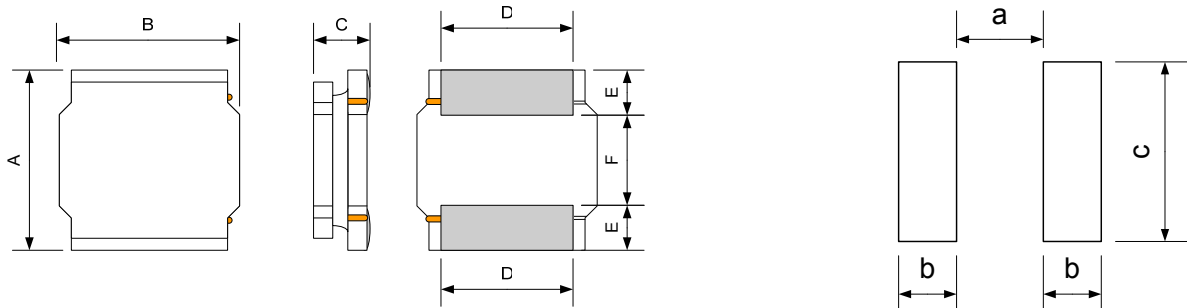
| <u>SWPA</u>  | <u>3012</u>                   | <u>S</u>               | <u>1R0</u> | <u>N</u> | <u>I</u>                      |  |       |     |      |                                   |  |        |             |        |             |      |             |      |             |      |             |      |             |      |             |      |             |      |             |      |             |      |             |      |             |      |             |      |             |      |             |
|--|-------------------------------|------------------------|------------|----------|-------------------------------|--|-------|-----|------|-----------------------------------|--|--------|-------------|--------|-------------|------|-------------|------|-------------|------|-------------|------|-------------|------|-------------|------|-------------|------|-------------|------|-------------|------|-------------|------|-------------|------|-------------|------|-------------|------|-------------|
| ①  | ②                             | ③                      | ④          | ⑤        | ⑥                             |  |       |     |      |                                   |  |        |             |        |             |      |             |      |             |      |             |      |             |      |             |      |             |      |             |      |             |      |             |      |             |      |             |      |             |      |             |
| <table border="1"> <thead> <tr> <th colspan="2">① Type</th> </tr> </thead> <tbody> <tr> <td>SWPA</td> <td>Wire Wound SMD Power Inductor</td> </tr> </tbody> </table>   |                               | ① Type                 |            | SWPA     | Wire Wound SMD Power Inductor | <table border="1"> <thead> <tr> <th colspan="2">② External Dimensions(L×W×H) [mm]</th> </tr> </thead> <tbody> <tr><td>252010</td><td>2.5×2.0×1.0</td></tr> <tr><td>252012</td><td>2.5×2.0×1.2</td></tr> <tr><td>3010</td><td>3.0×3.0×1.0</td></tr> <tr><td>3012</td><td>3.0×3.0×1.2</td></tr> <tr><td>3015</td><td>3.0×3.0×1.5</td></tr> <tr><td>4012</td><td>4.0×4.0×1.2</td></tr> <tr><td>4018</td><td>4.0×4.0×1.8</td></tr> <tr><td>4020</td><td>4.0×4.0×2.0</td></tr> <tr><td>4030</td><td>4.0×4.0×3.0</td></tr> <tr><td>5020</td><td>5.0×5.0×2.0</td></tr> <tr><td>5040</td><td>5.0×5.0×4.0</td></tr> <tr><td>6020</td><td>6.0×6.0×2.0</td></tr> <tr><td>6028</td><td>6.0×6.0×2.8</td></tr> <tr><td>6045</td><td>6.0×6.0×4.5</td></tr> <tr><td>8040</td><td>8.0×8.0×4.0</td></tr> </tbody> </table> |       |     |      | ② External Dimensions(L×W×H) [mm] |  | 252010 | 2.5×2.0×1.0 | 252012 | 2.5×2.0×1.2 | 3010 | 3.0×3.0×1.0 | 3012 | 3.0×3.0×1.2 | 3015 | 3.0×3.0×1.5 | 4012 | 4.0×4.0×1.2 | 4018 | 4.0×4.0×1.8 | 4020 | 4.0×4.0×2.0 | 4030 | 4.0×4.0×3.0 | 5020 | 5.0×5.0×2.0 | 5040 | 5.0×5.0×4.0 | 6020 | 6.0×6.0×2.0 | 6028 | 6.0×6.0×2.8 | 6045 | 6.0×6.0×4.5 | 8040 | 8.0×8.0×4.0 |
| ① Type   |                               |                        |            |          |                               |  |       |     |      |                                   |  |        |             |        |             |      |             |      |             |      |             |      |             |      |             |      |             |      |             |      |             |      |             |      |             |      |             |      |             |      |             |
| SWPA   | Wire Wound SMD Power Inductor |                        |            |          |                               |  |       |     |      |                                   |  |        |             |        |             |      |             |      |             |      |             |      |             |      |             |      |             |      |             |      |             |      |             |      |             |      |             |      |             |      |             |
| ② External Dimensions(L×W×H) [mm]  |                               |                        |            |          |                               |  |       |     |      |                                   |  |        |             |        |             |      |             |      |             |      |             |      |             |      |             |      |             |      |             |      |             |      |             |      |             |      |             |      |             |      |             |
| 252010   | 2.5×2.0×1.0                   |                        |            |          |                               |  |       |     |      |                                   |  |        |             |        |             |      |             |      |             |      |             |      |             |      |             |      |             |      |             |      |             |      |             |      |             |      |             |      |             |      |             |
| 252012   | 2.5×2.0×1.2                   |                        |            |          |                               |  |       |     |      |                                   |  |        |             |        |             |      |             |      |             |      |             |      |             |      |             |      |             |      |             |      |             |      |             |      |             |      |             |      |             |      |             |
| 3010   | 3.0×3.0×1.0                   |                        |            |          |                               |  |       |     |      |                                   |  |        |             |        |             |      |             |      |             |      |             |      |             |      |             |      |             |      |             |      |             |      |             |      |             |      |             |      |             |      |             |
| 3012   | 3.0×3.0×1.2                   |                        |            |          |                               |  |       |     |      |                                   |  |        |             |        |             |      |             |      |             |      |             |      |             |      |             |      |             |      |             |      |             |      |             |      |             |      |             |      |             |      |             |
| 3015   | 3.0×3.0×1.5                   |                        |            |          |                               |  |       |     |      |                                   |  |        |             |        |             |      |             |      |             |      |             |      |             |      |             |      |             |      |             |      |             |      |             |      |             |      |             |      |             |      |             |
| 4012   | 4.0×4.0×1.2                   |                        |            |          |                               |  |       |     |      |                                   |  |        |             |        |             |      |             |      |             |      |             |      |             |      |             |      |             |      |             |      |             |      |             |      |             |      |             |      |             |      |             |
| 4018   | 4.0×4.0×1.8                   |                        |            |          |                               |  |       |     |      |                                   |  |        |             |        |             |      |             |      |             |      |             |      |             |      |             |      |             |      |             |      |             |      |             |      |             |      |             |      |             |      |             |
| 4020   | 4.0×4.0×2.0                   |                        |            |          |                               |  |       |     |      |                                   |  |        |             |        |             |      |             |      |             |      |             |      |             |      |             |      |             |      |             |      |             |      |             |      |             |      |             |      |             |      |             |
| 4030   | 4.0×4.0×3.0                   |                        |            |          |                               |  |       |     |      |                                   |  |        |             |        |             |      |             |      |             |      |             |      |             |      |             |      |             |      |             |      |             |      |             |      |             |      |             |      |             |      |             |
| 5020   | 5.0×5.0×2.0                   |                        |            |          |                               |  |       |     |      |                                   |  |        |             |        |             |      |             |      |             |      |             |      |             |      |             |      |             |      |             |      |             |      |             |      |             |      |             |      |             |      |             |
| 5040   | 5.0×5.0×4.0                   |                        |            |          |                               |  |       |     |      |                                   |  |        |             |        |             |      |             |      |             |      |             |      |             |      |             |      |             |      |             |      |             |      |             |      |             |      |             |      |             |      |             |
| 6020   | 6.0×6.0×2.0                   |                        |            |          |                               |  |       |     |      |                                   |  |        |             |        |             |      |             |      |             |      |             |      |             |      |             |      |             |      |             |      |             |      |             |      |             |      |             |      |             |      |             |
| 6028   | 6.0×6.0×2.8                   |                        |            |          |                               |  |       |     |      |                                   |  |        |             |        |             |      |             |      |             |      |             |      |             |      |             |      |             |      |             |      |             |      |             |      |             |      |             |      |             |      |             |
| 6045   | 6.0×6.0×4.5                   |                        |            |          |                               |  |       |     |      |                                   |  |        |             |        |             |      |             |      |             |      |             |      |             |      |             |      |             |      |             |      |             |      |             |      |             |      |             |      |             |      |             |
| 8040   | 8.0×8.0×4.0                   |                        |            |          |                               |  |       |     |      |                                   |  |        |             |        |             |      |             |      |             |      |             |      |             |      |             |      |             |      |             |      |             |      |             |      |             |      |             |      |             |      |             |
| <table border="1"> <thead> <tr> <th colspan="2">③ Feature Type</th> </tr> </thead> <tbody> <tr> <td>S</td> <td>Standard</td> </tr> </tbody> </table>   |                               | ③ Feature Type         |            | S        | Standard                      |  |       |     |      |                                   |  |        |             |        |             |      |             |      |             |      |             |      |             |      |             |      |             |      |             |      |             |      |             |      |             |      |             |      |             |      |             |
| ③ Feature Type   |                               |                        |            |          |                               |  |       |     |      |                                   |  |        |             |        |             |      |             |      |             |      |             |      |             |      |             |      |             |      |             |      |             |      |             |      |             |      |             |      |             |      |             |
| S  | Standard                      |                        |            |          |                               |  |       |     |      |                                   |  |        |             |        |             |      |             |      |             |      |             |      |             |      |             |      |             |      |             |      |             |      |             |      |             |      |             |      |             |      |             |
| <table border="1"> <thead> <tr> <th colspan="2">④ Nominal Inductance</th> </tr> </thead> <tbody> <tr> <td>Example</td> <td>Nominal Value</td> </tr> <tr> <td>1R5</td> <td>1.5μH</td> </tr> <tr> <td>100</td> <td>10μH</td> </tr> </tbody> </table> |                               | ④ Nominal Inductance   |            | Example  | Nominal Value                 | 1R5  | 1.5μH | 100 | 10μH |                                   |  |        |             |        |             |      |             |      |             |      |             |      |             |      |             |      |             |      |             |      |             |      |             |      |             |      |             |      |             |      |             |
| ④ Nominal Inductance   |                               |                        |            |          |                               |  |       |     |      |                                   |  |        |             |        |             |      |             |      |             |      |             |      |             |      |             |      |             |      |             |      |             |      |             |      |             |      |             |      |             |      |             |
| Example  | Nominal Value                 |                        |            |          |                               |  |       |     |      |                                   |  |        |             |        |             |      |             |      |             |      |             |      |             |      |             |      |             |      |             |      |             |      |             |      |             |      |             |      |             |      |             |
| 1R5  | 1.5μH                         |                        |            |          |                               |  |       |     |      |                                   |  |        |             |        |             |      |             |      |             |      |             |      |             |      |             |      |             |      |             |      |             |      |             |      |             |      |             |      |             |      |             |
| 100  | 10μH                          |                        |            |          |                               |  |       |     |      |                                   |  |        |             |        |             |      |             |      |             |      |             |      |             |      |             |      |             |      |             |      |             |      |             |      |             |      |             |      |             |      |             |
| <table border="1"> <thead> <tr> <th colspan="2">⑤ Inductance Tolerance</th> </tr> </thead> <tbody> <tr> <td>N</td> <td>±30%</td> </tr> <tr> <td>M</td> <td>±20%</td> </tr> </tbody> </table>   |                               | ⑤ Inductance Tolerance |            | N        | ±30%                          | M  | ±20%  |     |      |                                   |  |        |             |        |             |      |             |      |             |      |             |      |             |      |             |      |             |      |             |      |             |      |             |      |             |      |             |      |             |      |             |
| ⑤ Inductance Tolerance   |                               |                        |            |          |                               |  |       |     |      |                                   |  |        |             |        |             |      |             |      |             |      |             |      |             |      |             |      |             |      |             |      |             |      |             |      |             |      |             |      |             |      |             |
| N  | ±30%                          |                        |            |          |                               |  |       |     |      |                                   |  |        |             |        |             |      |             |      |             |      |             |      |             |      |             |      |             |      |             |      |             |      |             |      |             |      |             |      |             |      |             |
| M  | ±20%                          |                        |            |          |                               |  |       |     |      |                                   |  |        |             |        |             |      |             |      |             |      |             |      |             |      |             |      |             |      |             |      |             |      |             |      |             |      |             |      |             |      |             |
| <table border="1"> <thead> <tr> <th colspan="2">⑥ Packing</th> </tr> </thead> <tbody> <tr> <td>T</td> <td>Tape Carrier Package</td> </tr> </tbody> </table>  |                               | ⑥ Packing              |            | T        | Tape Carrier Package          |  |       |     |      |                                   |  |        |             |        |             |      |             |      |             |      |             |      |             |      |             |      |             |      |             |      |             |      |             |      |             |      |             |      |             |      |             |
| ⑥ Packing  |                               |                        |            |          |                               |  |       |     |      |                                   |  |        |             |        |             |      |             |      |             |      |             |      |             |      |             |      |             |      |             |      |             |      |             |      |             |      |             |      |             |      |             |
| T  | Tape Carrier Package          |                        |            |          |                               |  |       |     |      |                                   |  |        |             |        |             |      |             |      |             |      |             |      |             |      |             |      |             |      |             |      |             |      |             |      |             |      |             |      |             |      |             |

# SHAPE AND DIMENSIONS

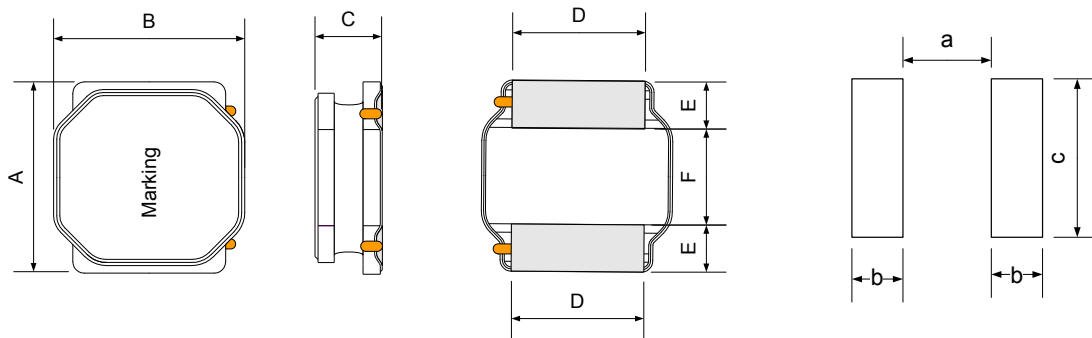
SWPA252012/252010S Series



SWPA30/40/60/80 Series



SWPA50 Series



Unit: mm

| Series      | A       | B       | C       | D       | E        | F        | a    | b    | c   |
|-------------|---------|---------|---------|---------|----------|----------|------|------|-----|
| SWPA252012S | 2.5±0.1 | 2.0±0.1 | 1.0Max. | 1.5±0.2 | 0.80±0.2 | 0.80±0.2 | 0.80 | 0.85 | 2.0 |
| SWPA252012S | 2.5±0.1 | 2.0±0.1 | 1.2Max. | 1.5±0.2 | 0.80±0.2 | 0.80±0.2 | 0.80 | 0.85 | 2.0 |
| SWPA3010S   | 3.0±0.2 | 3.0±0.2 | 1.0Max. | 2.5±0.2 | 0.75±0.2 | 1.5±0.2  | 1.5  | 0.8  | 2.7 |
| SWPA3012S   | 3.0±0.2 | 3.0±0.2 | 1.2Max. | 2.5±0.2 | 0.75±0.2 | 1.5±0.2  | 1.5  | 0.8  | 2.7 |
| SWPA3015S   | 3.0±0.2 | 3.0±0.2 | 1.5Max. | 2.5±0.2 | 0.75±0.2 | 1.5±0.2  | 1.5  | 0.8  | 2.7 |
| SWPA4012S   | 4.0±0.2 | 4.0±0.2 | 1.2Max. | 3.3±0.2 | 0.95±0.2 | 2.1±0.2  | 1.9  | 1.1  | 3.4 |
| SWPA4018S   | 4.0±0.2 | 4.0±0.2 | 1.8Max. | 3.3±0.2 | 0.95±0.2 | 2.1±0.2  | 1.9  | 1.1  | 3.4 |
| SWPA4020S   | 4.0±0.2 | 4.0±0.2 | 2.0Max. | 3.3±0.2 | 0.95±0.2 | 2.1±0.2  | 1.9  | 1.1  | 3.4 |
| SWPA4030S   | 4.0±0.2 | 4.0±0.2 | 3.0Max. | 3.3±0.2 | 0.95±0.2 | 2.1±0.2  | 1.9  | 1.1  | 3.4 |
| SWPA5020S   | 5.0±0.2 | 5.0±0.2 | 2.0Max. | 4.0±0.2 | 1.25±0.2 | 2.5±0.2  | 2.3  | 1.4  | 4.2 |
| SWPA5040S   | 5.0±0.2 | 5.0±0.2 | 4.0Max. | 4.0±0.2 | 1.25±0.2 | 2.5±0.2  | 2.3  | 1.4  | 4.2 |
| SWPA6020S   | 6.0±0.3 | 6.0±0.3 | 2.0Max. | 4.9±0.3 | 1.55±0.3 | 2.9±0.3  | 2.8  | 1.7  | 5.7 |
| SWPA6028S   | 6.0±0.3 | 6.0±0.3 | 2.8Max. | 4.9±0.3 | 1.55±0.3 | 2.9±0.3  | 2.8  | 1.7  | 5.7 |
| SWPA6045S   | 6.0±0.3 | 6.0±0.3 | 4.5Max. | 4.9±0.3 | 1.55±0.3 | 2.9±0.3  | 2.8  | 1.7  | 5.7 |
| SWPA8040S   | 8.0±0.3 | 8.0±0.3 | 4.2Max. | 6.3±0.3 | 2.00±0.3 | 4.0±0.3  | 3.8  | 2.2  | 7.5 |

※1: All products are printed with Marking except the 252010S, 252012S, 3010S, 3012S and 3015S series.

**Sunlord**

Specifications subject to change without notice. Please check our website for latest information. Revised 2011/03/15

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## SPECIFICATIONS

### SWPA252012S Series

| Part Number      | Inductance<br>@100KHz, 1V | DC Resistance |       | Saturation Current |      | Heat Rating<br>Current |
|------------------|---------------------------|---------------|-------|--------------------|------|------------------------|
|                  |                           | Max.          | Typ.  | Max.               | Typ. |                        |
| Units            | μH                        | Ω             | Ω     | A                  | A    | A                      |
| Symbol           | L                         | DCR           |       | Isat               |      | Irms                   |
| SWPA252010SR47NT | 0.47±30%                  | 0.061         | 0.047 | 2.50               | 3.35 | 2.35                   |
| SWPA252010SR68NT | 0.68±30%                  | 0.081         | 0.062 | 2.20               | 2.75 | 2.00                   |
| SWPA252010S1R0NT | 1.0±30%                   | 0.117         | 0.090 | 1.85               | 2.20 | 1.65                   |
| SWPA252010S1R5NT | 1.5±30%                   | 0.198         | 0.152 | 1.80               | 2.10 | 1.30                   |
| SWPA252010S2R2NT | 2.2±30%                   | 0.226         | 0.174 | 1.20               | 1.60 | 1.20                   |
| SWPA252010S3R3MT | 3.3±20%                   | 0.355         | 0.273 | 1.05               | 1.30 | 0.90                   |
| SWPA252010S4R7MT | 4.7±20%                   | 0.610         | 0.469 | 0.95               | 1.15 | 0.70                   |
| SWPA252010S6R8MT | 6.8±20%                   | 0.971         | 0.747 | 0.78               | 0.92 | 0.59                   |
| SWPA252010S100MT | 10±20%                    | 1.183         | 0.910 | 0.65               | 0.78 | 0.50                   |

### SWPA252012S Series

| Part Number      | Inductance<br>@100KHz, 1V | DC Resistance |       | Saturation Current |      | Heat Rating<br>Current |
|------------------|---------------------------|---------------|-------|--------------------|------|------------------------|
|                  |                           | Max.          | Typ.  | Max.               | Typ. |                        |
| Units            | μH                        | Ω             | Ω     | A                  | A    | A                      |
| Symbol           | L                         | DCR           |       | Isat               |      | Irms                   |
| SWPA252012SR47NT | 0.47±30%                  | 0.050         | 0.042 | 3.60               | 4.03 | 2.27                   |
| SWPA252012SR68NT | 0.68±30%                  | 0.088         | 0.073 | 3.06               | 3.43 | 1.73                   |
| SWPA252012S1R0NT | 1.0 ±30%                  | 0.102         | 0.085 | 2.68               | 3.00 | 1.58                   |
| SWPA252012S1R2NT | 1.2±30%                   | 0.119         | 0.099 | 2.38               | 2.67 | 1.46                   |
| SWPA252012S1R5MT | 1.5±20%                   | 0.136         | 0.113 | 2.24               | 2.51 | 1.40                   |
| SWPA252012S2R2MT | 2.2±20%                   | 0.198         | 0.165 | 1.85               | 2.07 | 1.15                   |
| SWPA252012S2R7MT | 2.7±20%                   | 0.222         | 0.185 | 1.71               | 1.92 | 1.09                   |
| SWPA252012S3R3MT | 3.3±20%                   | 0.240         | 0.200 | 1.61               | 1.80 | 1.04                   |
| SWPA252012S3R6MT | 3.6±20%                   | 0.322         | 0.268 | 1.48               | 1.66 | 0.90                   |
| SWPA252012S4R3MT | 4.3±20%                   | 0.348         | 0.290 | 1.37               | 1.53 | 0.87                   |
| SWPA252012S4R7MT | 4.7±20%                   | 0.378         | 0.315 | 1.18               | 1.32 | 0.84                   |
| SWPA252012S5R1MT | 5.1±20%                   | 0.378         | 0.315 | 1.18               | 1.32 | 0.84                   |
| SWPA252012S5R6MT | 5.6±20%                   | 0.401         | 0.334 | 1.13               | 1.26 | 0.81                   |
| SWPA252012S6R2MT | 6.2±20%                   | 0.500         | 0.417 | 1.03               | 1.16 | 0.73                   |
| SWPA252012S6R8MT | 6.8±20%                   | 0.536         | 0.447 | 0.98               | 1.09 | 0.69                   |
| SWPA252012S7R5MT | 7.5±20%                   | 0.564         | 0.470 | 0.97               | 1.09 | 0.68                   |
| SWPA252012S8R2MT | 8.2±20%                   | 0.607         | 0.506 | 0.98               | 1.10 | 0.65                   |
| SWPA252012S9R1MT | 9.1±20%                   | 0.667         | 0.556 | 0.95               | 1.06 | 0.62                   |
| SWPA252012S100MT | 10±20%                    | 0.690         | 0.575 | 0.88               | 0.97 | 0.62                   |
| SWPA252012S120MT | 12±20%                    | 0.992         | 0.827 | 0.78               | 0.87 | 0.51                   |
| SWPA252012S150MT | 15±20%                    | 1.469         | 1.224 | 0.68               | 0.76 | 0.42                   |
| SWPA252012S220MT | 22±20%                    | 1.824         | 1.520 | 0.53               | 0.59 | 0.38                   |

## SPECIFICATIONS

### SWPA3010S Series

| Part Number    | Inductance<br>@100KHz,1V | DC Resistance<br>(±30%) | Min.<br>Self-resonant<br>Frequency | Saturation<br>Current | Heat Rating<br>Current |
|----------------|--------------------------|-------------------------|------------------------------------|-----------------------|------------------------|
| Units          | µH                       | Ω                       | MHz                                | A                     | A                      |
| Symbol         | L                        | DCR                     | S.R.F                              | Isat                  | Irms                   |
| SWPA3010S1R0NT | 1.0±30%                  | 0.065                   | 180                                | 1.40                  | 1.45                   |
| SWPA3010S1R5NT | 1.5±30%                  | 0.080                   | 120                                | 1.27                  | 1.30                   |
| SWPA3010S2R2NT | 2.2±30%                  | 0.110                   | 100                                | 1.15                  | 1.09                   |
| SWPA3010S2R7NT | 2.7±30%                  | 0.130                   | 90                                 | 1.00                  | 1.02                   |
| SWPA3010S3R3NT | 3.3±30%                  | 0.145                   | 74                                 | 0.97                  | 0.96                   |
| SWPA3010S3R6MT | 3.6±20%                  | 0.165                   | 67                                 | 0.95                  | 0.90                   |
| SWPA3010S4R7MT | 4.7±20%                  | 0.225                   | 59                                 | 0.75                  | 0.77                   |
| SWPA3010S6R8MT | 6.8±20%                  | 0.305                   | 42                                 | 0.55                  | 0.66                   |
| SWPA3010S100MT | 10±20%                   | 0.400                   | 39                                 | 0.55                  | 0.58                   |
| SWPA3010S120MT | 12±20%                   | 0.505                   | 36                                 | 0.43                  | 0.52                   |
| SWPA3010S150MT | 15±20%                   | 0.610                   | 30                                 | 0.42                  | 0.47                   |
| SWPA3010S220MT | 22±20%                   | 0.930                   | 28                                 | 0.35                  | 0.38                   |
| SWPA3010S270MT | 27±20%                   | 1.080                   | 25                                 | 0.30                  | 0.35                   |
| SWPA3010S330MT | 33±20%                   | 1.550                   | 18                                 | 0.29                  | 0.30                   |
| SWPA3010S390MT | 39±20%                   | 1.750                   | 18                                 | 0.28                  | 0.28                   |
| SWPA3010S430MT | 43±20%                   | 1.800                   | 18                                 | 0.23                  | 0.27                   |
| SWPA3010S470MT | 47±20%                   | 1.950                   | 18                                 | 0.22                  | 0.26                   |
| SWPA3010S510MT | 51±20%                   | 2.200                   | 18                                 | 0.21                  | 0.25                   |
| SWPA3010S560MT | 56±20%                   | 2.320                   | 16                                 | 0.21                  | 0.24                   |

### SWPA3012S Series

| Part Number    | Inductance<br>@100KHz,1V | DC Resistance<br>(±30%) | Min.<br>Self-resonant<br>Frequency | Saturation<br>Current | Heat Rating<br>Current |
|----------------|--------------------------|-------------------------|------------------------------------|-----------------------|------------------------|
| Units          | µH                       | Ω                       | MHz                                | A                     | A                      |
| Symbol         | L                        | DCR                     | S.R.F                              | Isat                  | Irms                   |
| SWPA3012SR82NT | 0.82±30%                 | 0.030                   | 180                                | 2.05                  | 2.47                   |
| SWPA3012S1R0NT | 1.0±30%                  | 0.040                   | 120                                | 1.87                  | 2.20                   |
| SWPA3012S1R2NT | 1.2±30%                  | 0.045                   | 120                                | 2.22                  | 2.01                   |
| SWPA3012S1R5NT | 1.5±30%                  | 0.045                   | 110                                | 1.62                  | 2.01                   |
| SWPA3012S1R8NT | 1.8±20%                  | 0.055                   | 90                                 | 1.51                  | 1.84                   |
| SWPA3012S2R2NT | 2.2±20%                  | 0.075                   | 84                                 | 1.20                  | 1.55                   |
| SWPA3012S2R4NT | 2.4±20%                  | 0.068                   | 100                                | 1.15                  | 1.50                   |
| SWPA3012S2R7NT | 2.7±20%                  | 0.085                   | 65                                 | 1.14                  | 1.48                   |
| SWPA3012S3R3MT | 3.3±20%                  | 0.100                   | 64                                 | 1.05                  | 1.36                   |
| SWPA3012S4R7MT | 4.7±20%                  | 0.120                   | 61                                 | 0.90                  | 1.24                   |
| SWPA3012S6R8MT | 6.8±20%                  | 0.190                   | 61                                 | 0.75                  | 0.98                   |
| SWPA3012S100MT | 10±20%                   | 0.265                   | 42                                 | 0.60                  | 0.83                   |
| SWPA3012S120MT | 12±20%                   | 0.345                   | 32                                 | 0.48                  | 0.73                   |
| SWPA3012S150MT | 15±20%                   | 0.360                   | 27                                 | 0.45                  | 0.71                   |
| SWPA3012S180MT | 18±20%                   | 0.545                   | 25                                 | 0.43                  | 0.58                   |
| SWPA3012S220MT | 22±20%                   | 0.645                   | 23                                 | 0.42                  | 0.53                   |
| SWPA3012S270MT | 27±20%                   | 0.770                   | 21                                 | 0.40                  | 0.49                   |
| SWPA3012S330MT | 33±20%                   | 0.875                   | 18                                 | 0.36                  | 0.46                   |
| SWPA3012S360MT | 36±20%                   | 0.950                   | 18                                 | 0.34                  | 0.44                   |

## SPECIFICATIONS

### SWPA3012S Series

| Part Number    | Inductance<br>@100KHz,1V | DC Resistance<br>(±30%) | Min.<br>Self-resonant<br>Frequency | Saturation<br>Current | Heat Rating<br>Current |
|----------------|--------------------------|-------------------------|------------------------------------|-----------------------|------------------------|
| Units          | μH                       | Ω                       | MHz                                | A                     | A                      |
| Symbol         | L                        | DCR                     | S.R.F                              | Isat                  | Irms                   |
| SWPA3012S390MT | 39±20%                   | 1.330                   | 18                                 | 0.30                  | 0.37                   |
| SWPA3012S470MT | 47±20%                   | 1.360                   | 14                                 | 0.27                  | 0.36                   |
| SWPA3012S560MT | 56±20%                   | 1.380                   | 14                                 | 0.26                  | 0.36                   |
| SWPA3012S620MT | 62±20%                   | 1.530                   | 12                                 | 0.25                  | 0.35                   |
| SWPA3012S680MT | 68±20%                   | 1.670                   | 12                                 | 0.24                  | 0.33                   |
| SWPA3012S820MT | 82±20%                   | 2.540                   | 12                                 | 0.22                  | 0.27                   |
| SWPA3012S101MT | 100±20%                  | 2.860                   | 12                                 | 0.21                  | 0.25                   |

### SWPA3015S Series

| Part Number    | Inductance<br>@100KHz,1V | DC Resistance<br>(±30%) | Min.<br>Self-resonant<br>Frequency | Saturation<br>Current | Heat Rating<br>Current |
|----------------|--------------------------|-------------------------|------------------------------------|-----------------------|------------------------|
| Units          | μH                       | Ω                       | MHz                                | A                     | A                      |
| Symbol         | L                        | DCR                     | S.R.F                              | Isat                  | Irms                   |
| SWPA3015S1R0NT | 1.0±30%                  | 0.037                   | 150                                | 2.30                  | 2.10                   |
| SWPA3015S1R2NT | 1.2±30%                  | 0.040                   | 110                                | 2.21                  | 1.95                   |
| SWPA3015S1R5NT | 1.5±30%                  | 0.050                   | 100                                | 2.30                  | 1.70                   |
| SWPA3015S1R8NT | 1.8±30%                  | 0.050                   | 92                                 | 1.75                  | 1.70                   |
| SWPA3015S2R2NT | 2.2±30%                  | 0.060                   | 86                                 | 1.60                  | 1.60                   |
| SWPA3015S2R7NT | 2.7±30%                  | 0.075                   | 64                                 | 1.52                  | 1.43                   |
| SWPA3015S3R3MT | 3.3±20%                  | 0.080                   | 68                                 | 1.32                  | 1.36                   |
| SWPA3015S3R6MT | 3.6±20%                  | 0.105                   | 59                                 | 1.28                  | 1.20                   |
| SWPA3015S4R3MT | 4.3±20%                  | 0.115                   | 53                                 | 1.20                  | 1.14                   |
| SWPA3015S4R7MT | 4.7±20%                  | 0.125                   | 46                                 | 1.10                  | 1.09                   |
| SWPA3015S5R1MT | 5.1±20%                  | 0.125                   | 49                                 | 1.08                  | 1.09                   |
| SWPA3015S6R2MT | 6.2±20%                  | 0.195                   | 46                                 | 1.00                  | 0.86                   |
| SWPA3015S6R8MT | 6.8±20%                  | 0.200                   | 39                                 | 0.85                  | 0.85                   |
| SWPA3015S100MT | 10±20%                   | 0.250                   | 41                                 | 0.72                  | 0.77                   |
| SWPA3015S120MT | 12±20%                   | 0.320                   | 32                                 | 0.70                  | 0.68                   |
| SWPA3015S150MT | 15±20%                   | 0.350                   | 30                                 | 0.66                  | 0.65                   |
| SWPA3015S180MT | 18±20%                   | 0.430                   | 23                                 | 0.56                  | 0.59                   |
| SWPA3015S220MT | 22±20%                   | 0.460                   | 23                                 | 0.52                  | 0.57                   |
| SWPA3015S330MT | 33±20%                   | 0.820                   | 20                                 | 0.44                  | 0.43                   |
| SWPA3015S390MT | 39±20%                   | 0.995                   | 14                                 | 0.41                  | 0.39                   |
| SWPA3015S430MT | 43±20%                   | 1.060                   | 16                                 | 0.37                  | 0.37                   |
| SWPA3015S470MT | 47±20%                   | 1.250                   | 14                                 | 0.35                  | 0.35                   |
| SWPA3015S560MT | 56±20%                   | 1.280                   | 13                                 | 0.33                  | 0.34                   |
| SWPA3015S620MT | 62±20%                   | 1.430                   | 13                                 | 0.33                  | 0.32                   |
| SWPA3015S680MT | 68±20%                   | 2.700                   | 11                                 | 0.28                  | 0.23                   |

## SPECIFICATIONS

### SWPA4012S Series

| Part Number    | Inductance<br>@100KHz,1V | DC Resistance<br>(±30%) | Min.<br>Self-resonant<br>Frequency | Saturation<br>Current | Heat Rating<br>Current |
|----------------|--------------------------|-------------------------|------------------------------------|-----------------------|------------------------|
| Units          | μH                       | Ω                       | MHz                                | A                     | A                      |
| Symbol         | L                        | DCR                     | S.R.F                              | Isat                  | Irms                   |
| SWPA4012SR82NT | 0.82±30%                 | 0.050                   | 150                                | 3.53                  | 1.65                   |
| SWPA4012S1R0NT | 1.0±30%                  | 0.050                   | 120                                | 2.61                  | 1.65                   |
| SWPA4012S1R5NT | 1.5±30%                  | 0.065                   | 90                                 | 2.10                  | 1.46                   |
| SWPA4012S1R8NT | 1.8±30%                  | 0.080                   | 88                                 | 2.47                  | 1.32                   |
| SWPA4012S2R2NT | 2.2±30%                  | 0.080                   | 74                                 | 1.76                  | 1.32                   |
| SWPA4012S2R7NT | 2.7±30%                  | 0.090                   | 71                                 | 1.90                  | 1.25                   |
| SWPA4012S3R3NT | 3.3±30%                  | 0.113                   | 60                                 | 1.25                  | 1.12                   |
| SWPA4012S3R6NT | 3.6±30%                  | 0.110                   | 57                                 | 1.20                  | 1.12                   |
| SWPA4012S4R3NT | 4.3±30%                  | 0.140                   | 54                                 | 1.75                  | 1.00                   |
| SWPA4012S4R7NT | 4.7±30%                  | 0.125                   | 50                                 | 1.15                  | 1.05                   |
| SWPA4012S5R1NT | 5.1±30%                  | 0.155                   | 50                                 | 1.21                  | 0.95                   |
| SWPA4012S6R8MT | 6.8±20%                  | 0.198                   | 40                                 | 0.95                  | 0.84                   |
| SWPA4012S100MT | 10±20%                   | 0.265                   | 33                                 | 0.80                  | 0.77                   |
| SWPA4012S120MT | 12±20%                   | 0.290                   | 32                                 | 0.66                  | 0.70                   |
| SWPA4012S150MT | 15±20%                   | 0.340                   | 25                                 | 0.56                  | 0.64                   |
| SWPA4012S180MT | 18±20%                   | 0.470                   | 23                                 | 0.55                  | 0.55                   |
| SWPA4012S220MT | 22±20%                   | 0.470                   | 20                                 | 0.54                  | 0.55                   |
| SWPA4012S270MT | 27±20%                   | 0.720                   | 18                                 | 0.50                  | 0.45                   |
| SWPA4012S330MT | 33±20%                   | 0.810                   | 17                                 | 0.42                  | 0.42                   |
| SWPA4012S360MT | 36±20%                   | 0.900                   | 14                                 | 0.40                  | 0.40                   |
| SWPA4012S390MT | 39±20%                   | 1.100                   | 16                                 | 0.55                  | 0.37                   |
| SWPA4012S470MT | 47±20%                   | 1.100                   | 12                                 | 0.35                  | 0.37                   |
| SWPA4012S560MT | 56±20%                   | 1.250                   | 11                                 | 0.33                  | 0.33                   |
| SWPA4012S680MT | 68±20%                   | 1.460                   | 11                                 | 0.30                  | 0.31                   |
| SWPA4012S820MT | 82±20%                   | 2.140                   | 11                                 | 0.28                  | 0.26                   |
| SWPA4012S101MT | 100±20%                  | 2.210                   | 9.4                                | 0.25                  | 0.25                   |

### SWPA4018S Series

| Part Number    | Inductance<br>@100KHz,1V | DC Resistance<br>(±30%) | Min.<br>Self-resonant<br>Frequency | Saturation<br>Current | Heat Rating<br>Current |
|----------------|--------------------------|-------------------------|------------------------------------|-----------------------|------------------------|
| Units          | μH                       | Ω                       | MHz                                | A                     | A                      |
| Symbol         | L                        | DCR                     | S.R.F                              | Isat                  | Irms                   |
| SWPA4018S1R0NT | 1.0±30%                  | 0.025                   | 80                                 | 4.80                  | 2.00                   |
| SWPA4018S2R2MT | 2.2±20%                  | 0.045                   | 52                                 | 2.70                  | 1.65                   |
| SWPA4018S3R3MT | 3.3±20%                  | 0.070                   | 44                                 | 2.45                  | 1.23                   |
| SWPA4018S4R7MT | 4.7±20%                  | 0.090                   | 34                                 | 1.70                  | 1.20                   |
| SWPA4018S6R8MT | 6.8±20%                  | 0.110                   | 29                                 | 1.45                  | 1.06                   |
| SWPA4018S100MT | 10±20%                   | 0.180                   | 24                                 | 1.30                  | 0.84                   |
| SWPA4018S150MT | 15±20%                   | 0.250                   | 19                                 | 0.94                  | 0.65                   |
| SWPA4018S220MT | 22±20%                   | 0.360                   | 16                                 | 0.80                  | 0.59                   |
| SWPA4018S330MT | 33±20%                   | 0.530                   | 12                                 | 0.65                  | 0.49                   |
| SWPA4018S470MT | 47±20%                   | 0.650                   | 10                                 | 0.57                  | 0.42                   |
| SWPA4018S680MT | 68±20%                   | 1.000                   | 8.3                                | 0.47                  | 0.32                   |
| SWPA4018S101MT | 100±20%                  | 1.750                   | 6.5                                | 0.40                  | 0.25                   |
| SWPA4018S151MT | 150±20%                  | 2.500                   | 5.5                                | 0.31                  | 0.22                   |
| SWPA4018S221MT | 220±20%                  | 4.000                   | 4.0                                | 0.27                  | 0.17                   |

## SPECIFICATIONS

### SWPA4020S Series

| Part Number    | Inductance<br>@100KHz,1V | DC Resistance<br>(±30%) | Min.<br>Self-resonant<br>Frequency | Saturation<br>Current | Heat Rating<br>Current |
|----------------|--------------------------|-------------------------|------------------------------------|-----------------------|------------------------|
| Units          | μH                       | Ω                       | MHz                                | A                     | A                      |
| Symbol         | L                        | DCR                     | S.R.F                              | Isat                  | Irms                   |
| SWPA4020S1R0NT | 1.0±30%                  | 0.029                   | 75                                 | 4.85                  | 2.15                   |
| SWPA4020S1R2NT | 1.2±30%                  | 0.029                   | 72                                 | 5.10                  | 2.15                   |
| SWPA4020S1R5NT | 1.5±30%                  | 0.035                   | 71                                 | 4.45                  | 1.98                   |
| SWPA4020S2R2NT | 2.2±30%                  | 0.040                   | 49                                 | 3.40                  | 1.85                   |
| SWPA4020S3R3MT | 3.3±20%                  | 0.070                   | 44                                 | 3.20                  | 1.40                   |
| SWPA4020S3R6MT | 3.6±20%                  | 0.055                   | 49                                 | 2.80                  | 1.54                   |
| SWPA4020S4R7MT | 4.7±20%                  | 0.075                   | 42                                 | 2.35                  | 1.34                   |
| SWPA4020S5R1MT | 5.1±20%                  | 0.085                   | 42                                 | 2.30                  | 1.27                   |
| SWPA4020S5R6MT | 5.6±20%                  | 0.090                   | 30                                 | 2.20                  | 1.22                   |
| SWPA4020S6R2MT | 6.2±20%                  | 0.115                   | 36                                 | 2.15                  | 1.08                   |
| SWPA4020S6R8MT | 6.8±20%                  | 0.125                   | 33                                 | 2.20                  | 1.04                   |
| SWPA4020S7R5MT | 7.5±20%                  | 0.115                   | 30                                 | 1.85                  | 1.08                   |
| SWPA4020S8R2MT | 8.2±20%                  | 0.125                   | 27                                 | 1.75                  | 1.04                   |
| SWPA4020S100MT | 10±20%                   | 0.165                   | 26                                 | 1.60                  | 0.90                   |
| SWPA4020S120MT | 12±20%                   | 0.175                   | 26                                 | 1.50                  | 0.88                   |
| SWPA4020S150MT | 15±20%                   | 0.230                   | 24                                 | 1.35                  | 0.77                   |
| SWPA4020S220MT | 22±20%                   | 0.350                   | 15                                 | 1.05                  | 0.62                   |
| SWPA4020S270MT | 27±20%                   | 0.545                   | 14                                 | 1.02                  | 0.50                   |
| SWPA4020S330MT | 33±20%                   | 0.550                   | 11                                 | 0.85                  | 0.49                   |
| SWPA4020S390MT | 39±20%                   | 0.650                   | 11                                 | 0.82                  | 0.46                   |
| SWPA4020S430MT | 43±20%                   | 0.660                   | 10                                 | 0.77                  | 0.45                   |
| SWPA4020S470MT | 47±20%                   | 0.710                   | 10                                 | 0.74                  | 0.44                   |
| SWPA4020S510MT | 51±20%                   | 0.750                   | 10                                 | 0.70                  | 0.42                   |
| SWPA4020S560MT | 56±20%                   | 0.800                   | 10                                 | 0.66                  | 0.41                   |
| SWPA4020S620MT | 62±20%                   | 0.900                   | 9.6                                | 0.65                  | 0.39                   |
| SWPA4020S680MT | 68±20%                   | 1.060                   | 7.7                                | 0.61                  | 0.36                   |
| SWPA4020S750MT | 75±20%                   | 1.120                   | 7.7                                | 0.60                  | 0.35                   |
| SWPA4020S820MT | 82±20%                   | 1.170                   | 7.2                                | 0.56                  | 0.34                   |
| SWPA4020S101MT | 100±20%                  | 1.350                   | 6.3                                | 0.52                  | 0.31                   |

### SWPA4030S Series

| Part Number    | Inductance<br>@100KHz,1V | DC Resistance<br>(±30%) | Min.<br>Self-resonant<br>Frequency | Saturation<br>Current | Heat Rating<br>Current |
|----------------|--------------------------|-------------------------|------------------------------------|-----------------------|------------------------|
| Units          | μH                       | Ω                       | MHz                                | A                     | A                      |
| Symbol         | L                        | DCR                     | S.R.F                              | Isat                  | Irms                   |
| SWPA4030SR91NT | 0.91±30%                 | 0.022                   | 100                                | 6.25                  | 3.15                   |
| SWPA4030S1R2NT | 1.2±30%                  | 0.025                   | 80                                 | 5.80                  | 2.96                   |
| SWPA4030S1R5NT | 1.5±30%                  | 0.030                   | 62                                 | 4.84                  | 2.92                   |
| SWPA4030S1R8NT | 1.8±30%                  | 0.030                   | 60                                 | 5.40                  | 2.92                   |
| SWPA4030S2R2NT | 2.2±30%                  | 0.035                   | 52                                 | 4.90                  | 2.57                   |
| SWPA4030S3R3MT | 3.3±20%                  | 0.040                   | 38                                 | 3.30                  | 2.40                   |
| SWPA4030S4R3MT | 4.3±20%                  | 0.055                   | 37                                 | 2.95                  | 2.10                   |
| SWPA4030S4R7MT | 4.7±20%                  | 0.060                   | 31                                 | 2.90                  | 2.00                   |
| SWPA4030S5R6MT | 5.6±20%                  | 0.065                   | 30                                 | 2.60                  | 1.95                   |

## SPECIFICATIONS

### SWPA4030S Series

| Part Number    | Inductance<br>@100KHz,1V | DC Resistance<br>(±30%) | Min.<br>Self-resonant<br>Frequency | Saturation<br>Current | Heat Rating<br>Current |
|----------------|--------------------------|-------------------------|------------------------------------|-----------------------|------------------------|
| Units          | μH                       | Ω                       | MHz                                | A                     | A                      |
| Symbol         | L                        | DCR                     | S.R.F                              | Isat                  | Irms                   |
| SWPA4030S6R2MT | 6.2±20%                  | 0.070                   | 29                                 | 2.50                  | 1.85                   |
| SWPA4030S6R8MT | 6.8±20%                  | 0.090                   | 24                                 | 2.75                  | 1.60                   |
| SWPA4030S7R5MT | 7.5±20%                  | 0.085                   | 26                                 | 2.20                  | 1.65                   |
| SWPA4030S8R2MT | 8.2±20%                  | 0.090                   | 26                                 | 2.10                  | 1.60                   |
| SWPA4030S9R1MT | 9.1±20%                  | 0.095                   | 23                                 | 2.00                  | 1.55                   |
| SWPA4030S100MT | 10±20%                   | 0.100                   | 21                                 | 1.95                  | 1.50                   |
| SWPA4030S120MT | 12±20%                   | 0.135                   | 18                                 | 1.70                  | 1.30                   |
| SWPA4030S150MT | 15±20%                   | 0.190                   | 16                                 | 1.65                  | 1.11                   |
| SWPA4030S180MT | 18±20%                   | 0.200                   | 10                                 | 1.40                  | 1.10                   |
| SWPA4030S220MT | 22±20%                   | 0.225                   | 10                                 | 1.30                  | 1.00                   |
| SWPA4030S330MT | 33±20%                   | 0.330                   | 10                                 | 1.10                  | 0.84                   |
| SWPA4030S360MT | 36±20%                   | 0.335                   | 9.8                                | 1.05                  | 0.83                   |
| SWPA4030S390MT | 39±20%                   | 0.435                   | 10                                 | 1.03                  | 0.73                   |
| SWPA4030S430MT | 43±20%                   | 0.440                   | 9.2                                | 1.00                  | 0.73                   |
| SWPA4030S470MT | 47±20%                   | 0.445                   | 8.4                                | 0.95                  | 0.72                   |
| SWPA4030S510MT | 51±20%                   | 0.470                   | 8.4                                | 0.90                  | 0.70                   |
| SWPA4030S560MT | 56±20%                   | 0.555                   | 8.4                                | 0.85                  | 0.65                   |
| SWPA4030S620MT | 62±20%                   | 0.829                   | 7                                  | 0.80                  | 0.53                   |
| SWPA4030S680MT | 68±20%                   | 0.868                   | 7                                  | 0.75                  | 0.52                   |
| SWPA4030S750MT | 75±20%                   | 1.020                   | 6.3                                | 0.70                  | 0.48                   |
| SWPA4030S820MT | 82±20%                   | 1.060                   | 5.6                                | 0.66                  | 0.47                   |
| SWPA4030S910MT | 91±20%                   | 1.100                   | 5.6                                | 0.65                  | 0.46                   |
| SWPA4030S101MT | 100±20%                  | 1.150                   | 5.6                                | 0.60                  | 0.45                   |
| SWPA4030S121MT | 120±20%                  | 1.350                   | 5.4                                | 0.55                  | 0.42                   |

### SWPA5020S Series

| Part Number    | Inductance<br>@100KHz,1V | DC Resistance<br>(±30%) | Min.<br>Self-resonant<br>Frequency | Saturation<br>Current | Heat Rating<br>Current |
|----------------|--------------------------|-------------------------|------------------------------------|-----------------------|------------------------|
| Units          | μH                       | Ω                       | MHz                                | A                     | A                      |
| Symbol         | L                        | DCR                     | S.R.F                              | Isat                  | Irms                   |
| SWPA5020SR47NT | 0.47                     | 0.013                   | 160                                | 6.15                  | 4.60                   |
| SWPA5020SR75NT | 0.75                     | 0.017                   | 117                                | 5.50                  | 4.00                   |
| SWPA5020S1R0NT | 1.0                      | 0.020                   | 114                                | 4.10                  | 3.80                   |
| SWPA5020S1R2NT | 1.2                      | 0.022                   | 83                                 | 4.50                  | 3.55                   |
| SWPA5020S1R5NT | 1.5                      | 0.026                   | 68                                 | 4.10                  | 3.20                   |
| SWPA5020S2R2NT | 2.2                      | 0.032                   | 57                                 | 3.20                  | 2.90                   |
| SWPA5020S2R7NT | 2.7                      | 0.038                   | 52                                 | 2.90                  | 2.70                   |
| SWPA5020S3R0NT | 3.0                      | 0.038                   | 49                                 | 2.55                  | 2.70                   |
| SWPA5020S3R3NT | 3.3                      | 0.043                   | 46                                 | 2.55                  | 2.50                   |
| SWPA5020S3R6NT | 3.6                      | 0.043                   | 43                                 | 2.80                  | 2.50                   |
| SWPA5020S3R9NT | 3.9                      | 0.043                   | 40                                 | 2.30                  | 2.50                   |
| SWPA5020S4R3MT | 4.3                      | 0.057                   | 37                                 | 2.50                  | 2.20                   |
| SWPA5020S4R7MT | 4.7                      | 0.057                   | 37                                 | 2.50                  | 2.20                   |



## SPECIFICATIONS

### SWPA5020S Series

| Part Number    | Inductance<br>@100KHz,1V | DC Resistance<br>(±30%) | Min.<br>Self-resonant<br>Frequency | Saturation<br>Current | Heat Rating<br>Current |
|----------------|--------------------------|-------------------------|------------------------------------|-----------------------|------------------------|
| Units          | μH                       | Ω                       | MHz                                | A                     | A                      |
| Symbol         | L                        | DCR                     | S.R.F                              | Isat                  | Irms                   |
| SWPA5020S5R1MT | 5.1                      | 0.064                   | 32                                 | 2.25                  | 2.05                   |
| SWPA5020S5R6MT | 5.6                      | 0.064                   | 32                                 | 2.30                  | 2.05                   |
| SWPA5020S6R8MT | 6.8                      | 0.083                   | 30                                 | 2.05                  | 1.80                   |
| SWPA5020S7R5MT | 7.5                      | 0.090                   | 26                                 | 1.85                  | 1.75                   |
| SWPA5020S8R2MT | 8.2                      | 0.098                   | 26                                 | 1.85                  | 1.65                   |
| SWPA5020S9R1MT | 9.1                      | 0.110                   | 24                                 | 1.70                  | 1.55                   |
| SWPA5020S100MT | 10                       | 0.110                   | 24                                 | 1.70                  | 1.55                   |
| SWPA5020S120MT | 12                       | 0.140                   | 22                                 | 1.50                  | 1.40                   |
| SWPA5020S150MT | 15                       | 0.165                   | 20                                 | 1.35                  | 1.25                   |
| SWPA5020S180MT | 18                       | 0.200                   | 16                                 | 1.25                  | 1.15                   |
| SWPA5020S220MT | 22                       | 0.226                   | 14                                 | 1.15                  | 1.10                   |

### SWPA5040S Series

| Part Number    | Inductance<br>@100KHz,1V | DC Resistance<br>(±30%) | Min.<br>Self-resonant<br>Frequency | Saturation<br>Current | Heat Rating<br>Current |
|----------------|--------------------------|-------------------------|------------------------------------|-----------------------|------------------------|
| Units          | μH                       | Ω                       | MHz                                | A                     | A                      |
| Symbol         | L                        | DCR                     | S.R.F                              | Isat                  | Irms                   |
| SWPA5040S1R0NT | 1.0                      | 0.012                   | 117                                | 7.35                  | 4.90                   |
| SWPA5040S1R5NT | 1.5                      | 0.015                   | 86                                 | 6.30                  | 4.30                   |
| SWPA5040S2R2NT | 2.2                      | 0.019                   | 50                                 | 4.90                  | 3.80                   |
| SWPA5040S2R7NT | 2.7                      | 0.022                   | 37                                 | 4.30                  | 3.60                   |
| SWPA5040S3R3NT | 3.3                      | 0.024                   | 32                                 | 3.95                  | 3.40                   |
| SWPA5040S3R9NT | 3.9                      | 0.027                   | 29                                 | 3.55                  | 3.20                   |
| SWPA5040S4R7NT | 4.7                      | 0.030                   | 28                                 | 3.50                  | 3.00                   |
| SWPA5040S6R8MT | 6.8                      | 0.043                   | 21                                 | 2.90                  | 2.50                   |
| SWPA5040S100MT | 10                       | 0.064                   | 18                                 | 2.35                  | 2.10                   |
| SWPA5040S150MT | 15                       | 0.086                   | 13                                 | 2.00                  | 2.00                   |
| SWPA5040S220MT | 22                       | 0.129                   | 11                                 | 1.60                  | 1.50                   |
| SWPA5040S330MT | 33                       | 0.188                   | 9.1                                | 1.30                  | 1.20                   |
| SWPA5040S470MT | 47                       | 0.272                   | 6.7                                | 1.10                  | 1.00                   |
| SWPA5040S680MT | 68                       | 0.400                   | 5.7                                | 0.90                  | 0.80                   |
| SWPA5040S101MT | 100                      | 0.560                   | 4.7                                | 0.75                  | 0.70                   |

### SWPA6020S Series

| Part Number    | Inductance<br>@100KHz,1V | DC Resistance<br>(±30%) | Min.<br>Self-resonant<br>Frequency | Saturation<br>Current | Heat Rating<br>Current |
|----------------|--------------------------|-------------------------|------------------------------------|-----------------------|------------------------|
| Units          | μH                       | Ω                       | MHz                                | A                     | A                      |
| Symbol         | L                        | DCR                     | S.R.F                              | Isat                  | Irms                   |
| SWPA6020SR50NT | 0.50±30%                 | 0.013                   | 130                                | 4.90                  | 4.05                   |
| SWPA6020SR68NT | 0.68±30%                 | 0.017                   | 120                                | 7.50                  | 3.80                   |
| SWPA6020SR82NT | 0.82±30%                 | 0.017                   | 110                                | 6.60                  | 3.80                   |
| SWPA6020S1R0NT | 1.0±30%                  | 0.020                   | 94                                 | 4.15                  | 3.25                   |
| SWPA6020S1R2NT | 1.2±30%                  | 0.022                   | 88                                 | 5.90                  | 3.20                   |
| SWPA6020S1R5NT | 1.5±30%                  | 0.022                   | 79                                 | 4.25                  | 3.20                   |
| SWPA6020S1R8NT | 1.8±30%                  | 0.028                   | 68                                 | 4.85                  | 2.75                   |

## SPECIFICATIONS

### SWPA6020S Series

| Part Number    | Inductance<br>@100KHz,1V | DC Resistance<br>(±30%) | Min.<br>Self-resonant<br>Frequency | Saturation<br>Current | Heat Rating<br>Current |
|----------------|--------------------------|-------------------------|------------------------------------|-----------------------|------------------------|
| Units          | μH                       | Ω                       | MHz                                | A                     | A                      |
| Symbol         | L                        | DCR                     | S.R.F                              | Isat                  | Irms                   |
| SWPA6020S2R0NT | 2.0±30%                  | 0.035                   | 64                                 | 4.30                  | 2.45                   |
| SWPA6020S2R2NT | 2.2±30%                  | 0.028                   | 61                                 | 3.75                  | 2.75                   |
| SWPA6020S2R7NT | 2.7±30%                  | 0.035                   | 56                                 | 3.90                  | 2.60                   |
| SWPA6020S3R3NT | 3.3±30%                  | 0.035                   | 51                                 | 3.15                  | 2.60                   |
| SWPA6020S3R9NT | 3.9±30%                  | 0.049                   | 46                                 | 3.25                  | 2.10                   |
| SWPA6020S4R3NT | 4.3±30%                  | 0.049                   | 44                                 | 2.70                  | 2.10                   |
| SWPA6020S4R7NT | 4.7±30%                  | 0.058                   | 41                                 | 3.00                  | 2.00                   |
| SWPA6020S5R6NT | 5.6±30%                  | 0.058                   | 36                                 | 2.40                  | 1.90                   |
| SWPA6020S6R2NT | 6.2±30%                  | 0.079                   | 35                                 | 2.30                  | 1.80                   |
| SWPA6020S6R8NT | 6.8±30%                  | 0.079                   | 31                                 | 2.20                  | 1.80                   |
| SWPA6020S8R2NT | 8.2±20%                  | 0.105                   | 28                                 | 2.10                  | 1.40                   |
| SWPA6020S100MT | 10±20%                   | 0.105                   | 27                                 | 1.75                  | 1.40                   |
| SWPA6020S120MT | 12±20%                   | 0.120                   | 23                                 | 1.70                  | 1.35                   |
| SWPA6020S150MT | 15±20%                   | 0.145                   | 21                                 | 1.50                  | 1.20                   |
| SWPA6020S180MT | 18±20%                   | 0.175                   | 19                                 | 1.23                  | 1.10                   |
| SWPA6020S220MT | 22±20%                   | 0.204                   | 16                                 | 1.25                  | 1.00                   |

### SWPA6028S Series

| Part Number    | Inductance<br>@100KHz,1V | DC Resistance<br>(±30%) | Min.<br>Self-resonant<br>Frequency | Saturation<br>Current | Heat Rating<br>Current |
|----------------|--------------------------|-------------------------|------------------------------------|-----------------------|------------------------|
| Units          | μH                       | Ω                       | MHz                                | A                     | A                      |
| Symbol         | L                        | DCR                     | S.R.F                              | Isat                  | Irms                   |
| SWPA6028S1R5NT | 1.5±30%                  | 0.013                   | 65                                 | 6.00                  | 4.58                   |
| SWPA6028S2R2NT | 2.2±30%                  | 0.015                   | 56                                 | 5.10                  | 4.09                   |
| SWPA6028S2R7NT | 2.7±30%                  | 0.020                   | 48                                 | 3.80                  | 3.75                   |
| SWPA6028S3R3NT | 3.3±30%                  | 0.025                   | 41                                 | 3.63                  | 3.48                   |
| SWPA6028S4R7NT | 4.7±30%                  | 0.030                   | 35                                 | 3.00                  | 3.08                   |
| SWPA6028S5R1NT | 5.1±30%                  | 0.035                   | 33                                 | 3.55                  | 2.89                   |
| SWPA6028S6R2MT | 6.2±20%                  | 0.040                   | 30                                 | 3.05                  | 2.58                   |
| SWPA6028S6R8MT | 6.8±20%                  | 0.047                   | 27                                 | 2.85                  | 2.40                   |
| SWPA6028S8R2MT | 8.2±20%                  | 0.055                   | 24                                 | 2.60                  | 2.25                   |
| SWPA6028S9R1MT | 9.1±20%                  | 0.060                   | 24                                 | 2.55                  | 2.15                   |
| SWPA6028S100MT | 10±20%                   | 0.072                   | 23                                 | 2.04                  | 1.95                   |
| SWPA6028S120MT | 12±20%                   | 0.080                   | 18                                 | 1.80                  | 1.85                   |
| SWPA6028S150MT | 15±20%                   | 0.125                   | 18                                 | 1.75                  | 1.45                   |
| SWPA6028S180MT | 18±20%                   | 0.120                   | 15                                 | 1.52                  | 1.45                   |
| SWPA6028S220MT | 22±20%                   | 0.140                   | 14                                 | 1.60                  | 1.40                   |
| SWPA6028S270MT | 27±20%                   | 0.155                   | 13                                 | 1.50                  | 1.32                   |
| SWPA6028S330MT | 33±20%                   | 0.185                   | 12                                 | 1.35                  | 1.22                   |
| SWPA6028S360MT | 36±20%                   | 0.215                   | 11                                 | 1.25                  | 1.13                   |
| SWPA6028S390MT | 39±20%                   | 0.225                   | 11                                 | 1.25                  | 1.10                   |

## SPECIFICATIONS

### SWPA6028S Series

| Part Number    | Inductance<br>@100KHz,1V | DC Resistance<br>(±30%) | Min.<br>Self-resonant<br>Frequency | Saturation<br>Current | Heat Rating<br>Current |
|----------------|--------------------------|-------------------------|------------------------------------|-----------------------|------------------------|
| Units          | μH                       | Ω                       | MHz                                | A                     | A                      |
| Symbol         | L                        | DCR                     | S.R.F                              | Isat                  | Irms                   |
| SWPA6028S430MT | 43±20%                   | 0.235                   | 11                                 | 1.20                  | 1.07                   |
| SWPA6028S470MT | 47±20%                   | 0.245                   | 9.5                                | 1.15                  | 1.06                   |
| SWPA6028S510MT | 51±20%                   | 0.265                   | 9.5                                | 1.05                  | 1.01                   |
| SWPA6028S620MT | 62±20%                   | 0.345                   | 7.7                                | 0.95                  | 0.89                   |
| SWPA6028S680MT | 68±20%                   | 0.360                   | 7.7                                | 0.95                  | 0.86                   |
| SWPA6028S750MT | 75±20%                   | 0.410                   | 7.7                                | 0.90                  | 0.81                   |
| SWPA6028S820MT | 82±20%                   | 0.445                   | 7.7                                | 0.90                  | 0.78                   |
| SWPA6028S910MT | 91±20%                   | 0.505                   | 7.7                                | 0.80                  | 0.73                   |
| SWPA6028S101MT | 100±20%                  | 0.545                   | 7.1                                | 0.75                  | 0.70                   |

### SWPA6045S Series

| Part Number    | Inductance<br>@100KHz,1V | DC Resistance<br>(±30%) | Min.<br>Self-resonant<br>Frequency | Saturation<br>Current | Heat Rating<br>Current |
|----------------|--------------------------|-------------------------|------------------------------------|-----------------------|------------------------|
| Units          | μH                       | Ω                       | MHz                                | A                     | A                      |
| Symbol         | L                        | DCR                     | S.R.F                              | Isat                  | Irms                   |
| SWPA6045SR82NT | 0.82±30%                 | 0.008                   | 140                                | 10.4                  | 5.90                   |
| SWPA6045S1R0NT | 1.0±30%                  | 0.011                   | 100                                | 9.85                  | 5.14                   |
| SWPA6045S1R2NT | 1.2±30%                  | 0.010                   | 100                                | 8.35                  | 5.40                   |
| SWPA6045S1R5NT | 1.5±30%                  | 0.012                   | 65                                 | 8.80                  | 4.95                   |
| SWPA6045S1R8NT | 1.8±30%                  | 0.012                   | 74                                 | 7.60                  | 4.95                   |
| SWPA6045S2R2NT | 2.2±30%                  | 0.014                   | 52                                 | 6.75                  | 4.60                   |
| SWPA6045S2R3NT | 2.3±30%                  | 0.021                   | 60                                 | 6.00                  | 3.50                   |
| SWPA6045S2R7NT | 2.7±30%                  | 0.015                   | 38                                 | 5.75                  | 4.30                   |
| SWPA6045S3R0NT | 3.0±30%                  | 0.020                   | 35                                 | 5.60                  | 3.80                   |
| SWPA6045S3R3NT | 3.3±30%                  | 0.021                   | 32                                 | 5.90                  | 3.70                   |
| SWPA6045S3R6NT | 3.6±30%                  | 0.021                   | 28                                 | 5.25                  | 3.70                   |
| SWPA6045S4R3MT | 4.3±20%                  | 0.023                   | 23                                 | 4.45                  | 3.50                   |
| SWPA6045S4R7MT | 4.7±20%                  | 0.026                   | 24                                 | 4.97                  | 3.30                   |
| SWPA6045S5R1MT | 5.1±20%                  | 0.026                   | 23                                 | 4.40                  | 3.30                   |
| SWPA6045S5R6MT | 5.6±20%                  | 0.029                   | 23                                 | 4.15                  | 3.15                   |
| SWPA6045S6R2MT | 6.2±20%                  | 0.031                   | 26                                 | 4.43                  | 3.00                   |
| SWPA6045S6R8MT | 6.8±20%                  | 0.031                   | 20                                 | 3.90                  | 3.00                   |
| SWPA6045S7R5MT | 7.5±20%                  | 0.034                   | 18                                 | 3.50                  | 2.90                   |
| SWPA6045S8R2MT | 8.2±20%                  | 0.043                   | 21                                 | 3.90                  | 2.60                   |
| SWPA6045S9R1MT | 9.1±20%                  | 0.043                   | 17                                 | 3.35                  | 2.60                   |
| SWPA6045S100MT | 10±20%                   | 0.048                   | 15                                 | 3.20                  | 2.45                   |
| SWPA6045S120MT | 12±20%                   | 0.058                   | 13                                 | 2.80                  | 2.20                   |
| SWPA6045S150MT | 15±20%                   | 0.068                   | 12                                 | 2.50                  | 2.05                   |
| SWPA6045S180MT | 18±20%                   | 0.081                   | 10                                 | 2.20                  | 1.85                   |
| SWPA6045S220MT | 22±20%                   | 0.089                   | 10                                 | 2.05                  | 1.80                   |
| SWPA6045S270MT | 27±20%                   | 0.102                   | 9.2                                | 1.90                  | 1.65                   |
| SWPA6045S300MT | 30±20%                   | 0.132                   | 7.8                                | 1.70                  | 1.50                   |
| SWPA6045S330MT | 33±20%                   | 0.137                   | 7.8                                | 1.65                  | 1.45                   |
| SWPA6045S360MT | 36±20%                   | 0.173                   | 7.8                                | 1.62                  | 1.40                   |
| SWPA6045S390MT | 39±20%                   | 0.180                   | 7.8                                | 1.50                  | 1.25                   |
| SWPA6045S430MT | 43±20%                   | 0.200                   | 7.7                                | 1.63                  | 1.20                   |
| SWPA6045S470MT | 47±20%                   | 0.200                   | 6.4                                | 1.40                  | 1.20                   |



Specifications subject to change without notice. Please check our website for latest information. Revised 2011/03/15

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## SPECIFICATIONS

### SWPA6045S Series

| Part Number    | Inductance<br>@100KHz,1V | DC Resistance<br>(±30%) | Min.<br>Self-resonant<br>Frequency | Saturation<br>Current | Heat Rating<br>Current |
|----------------|--------------------------|-------------------------|------------------------------------|-----------------------|------------------------|
| Units          | μH                       | Ω                       | MHz                                | A                     | A                      |
| Symbol         | L                        | DCR                     | S.R.F                              | Isat                  | Irms                   |
| SWPA6045S510MT | 51±20%                   | 0.207                   | 6.4                                | 1.35                  | 1.15                   |
| SWPA6045S560MT | 56±20%                   | 0.221                   | 6.4                                | 1.30                  | 1.10                   |
| SWPA6045S620MT | 62±20%                   | 0.235                   | 6.4                                | 1.25                  | 1.10                   |
| SWPA6045S680MT | 68±20%                   | 0.289                   | 6.4                                | 1.20                  | 1.00                   |
| SWPA6045S750MT | 75±20%                   | 0.305                   | 5.0                                | 1.15                  | 0.95                   |
| SWPA6045S820MT | 82±20%                   | 0.341                   | 4.9                                | 1.05                  | 0.90                   |
| SWPA6045S910MT | 91±20%                   | 0.359                   | 4.9                                | 1.00                  | 0.85                   |
| SWPA6045S101MT | 100±20%                  | 0.433                   | 4.2                                | 0.95                  | 0.80                   |
| SWPA6045S121MT | 120±20%                  | 0.484                   | 4.2                                | 0.85                  | 0.77                   |
| SWPA6045S151MT | 150±20%                  | 0.580                   | 4.2                                | 0.80                  | 0.70                   |
| SWPA6045S221MT | 220±20%                  | 0.834                   | 3.5                                | 0.70                  | 0.59                   |
| SWPA6045S331MT | 330±20%                  | 1.270                   | 2.8                                | 0.57                  | 0.57                   |

### SWPA8040S Series

| Part Number    | Inductance<br>@100KHz,1V | DC Resistance<br>(±30%) | Min.<br>Self-resonant<br>Frequency | Saturation<br>Current | Heat Rating<br>Current |
|----------------|--------------------------|-------------------------|------------------------------------|-----------------------|------------------------|
| Units          | μH                       | Ω                       | MHz                                | A                     | A                      |
| Symbol         | L                        | DCR                     | S.R.F                              | Isat                  | Irms                   |
| SWPA8040SR82NT | 0.82±30%                 | 0.008                   | 94                                 | 13.8                  | 6.30                   |
| SWPA8040S1R0NT | 1.0±30%                  | 0.008                   | 89                                 | 9.85                  | 6.30                   |
| SWPA8040S1R5NT | 1.5±30%                  | 0.010                   | 67                                 | 8.15                  | 5.65                   |
| SWPA8040S2R0NT | 2.0±30%                  | 0.012                   | 43                                 | 9.25                  | 5.15                   |
| SWPA8040S2R2NT | 2.2±30%                  | 0.012                   | 41                                 | 7.10                  | 5.15                   |
| SWPA8040S3R0NT | 3.0±30%                  | 0.014                   | 32                                 | 6.10                  | 4.70                   |
| SWPA8040S3R3NT | 3.3±30%                  | 0.017                   | 27                                 | 6.50                  | 4.40                   |
| SWPA8040S3R6NT | 3.6±30%                  | 0.017                   | 30                                 | 7.52                  | 4.35                   |
| SWPA8040S3R9NT | 3.9±30%                  | 0.017                   | 26                                 | 5.75                  | 4.35                   |
| SWPA8040S4R7NT | 4.7±30%                  | 0.019                   | 24                                 | 5.90                  | 4.10                   |
| SWPA8040S5R1NT | 5.1±30%                  | 0.019                   | 22                                 | 4.70                  | 4.05                   |
| SWPA8040S5R6NT | 5.6±30%                  | 0.021                   | 24                                 | 6.00                  | 3.85                   |
| SWPA8040S6R2NT | 6.2±30%                  | 0.021                   | 20                                 | 4.45                  | 3.85                   |
| SWPA8040S6R8MT | 6.8±20%                  | 0.024                   | 20                                 | 4.55                  | 3.60                   |
| SWPA8040S8R2MT | 8.2±20%                  | 0.026                   | 17                                 | 4.20                  | 3.45                   |
| SWPA8040S100MT | 10±20%                   | 0.029                   | 15                                 | 3.60                  | 3.30                   |
| SWPA8040S150MT | 15±20%                   | 0.047                   | 12                                 | 2.95                  | 2.60                   |
| SWPA8040S180MT | 18±20%                   | 0.053                   | 11                                 | 2.70                  | 2.40                   |
| SWPA8040S220MT | 22±20%                   | 0.069                   | 9.5                                | 2.40                  | 2.10                   |
| SWPA8040S270MT | 27±20%                   | 0.078                   | 9.2                                | 2.15                  | 2.00                   |
| SWPA8040S330MT | 33±20%                   | 0.097                   | 7.8                                | 2.05                  | 1.80                   |
| SWPA8040S360MT | 36±20%                   | 0.102                   | 7.8                                | 2.00                  | 1.75                   |
| SWPA8040S390MT | 39±20%                   | 0.107                   | 7.8                                | 1.95                  | 1.70                   |
| SWPA8040S430MT | 43±20%                   | 0.113                   | 7.8                                | 1.90                  | 1.65                   |
| SWPA8040S470MT | 47±20%                   | 0.136                   | 6.4                                | 1.75                  | 1.55                   |
| SWPA8040S510MT | 51±20%                   | 0.142                   | 6.4                                | 1.70                  | 1.50                   |
| SWPA8040S560MT | 56±20%                   | 0.148                   | 6.4                                | 1.55                  | 1.45                   |

## SPECIFICATIONS

### SWPA8040S Series

| Part Number    | Inductance<br>@100KHz,1V | DC Resistance<br>(±30%) | Min.<br>Self-resonant<br>Frequency | Saturation<br>Current | Heat Rating<br>Current |
|----------------|--------------------------|-------------------------|------------------------------------|-----------------------|------------------------|
| Units          | μH                       | Ω                       | MHz                                | A                     | A                      |
| Symbol         | L                        | DCR                     | S.R.F                              | Isat                  | Irms                   |
| SWPA8040S620MT | 62±20%                   | 0.182                   | 6.4                                | 1.50                  | 1.30                   |
| SWPA8040S680MT | 68±20%                   | 0.196                   | 4.9                                | 1.45                  | 1.25                   |
| SWPA8040S750MT | 75±20%                   | 0.211                   | 4.9                                | 1.35                  | 1.20                   |
| SWPA8040S820MT | 82±20%                   | 0.225                   | 5.9                                | 1.30                  | 1.15                   |
| SWPA8040S910MT | 91±20%                   | 0.272                   | 4.9                                | 1.20                  | 1.05                   |
| SWPA8040S101MT | 100±20%                  | 0.290                   | 4.2                                | 1.15                  | 1.00                   |
| SWPA8040S121MT | 120±20%                  | 0.334                   | 3.5                                | 1.05                  | 0.95                   |
| SWPA8040S151MT | 150±20%                  | 0.410                   | 3.5                                | 1.10                  | 0.85                   |
| SWPA8040S221MT | 220±20%                  | 0.599                   | 3.5                                | 0.85                  | 0.80                   |
| SWPA8040S331MT | 330±20%                  | 0.889                   | 2.8                                | 0.68                  | 0.64                   |

※1: All test data is referenced to 20°C ambient;

※2: Rated current: Isat or Irms, whichever is smaller;

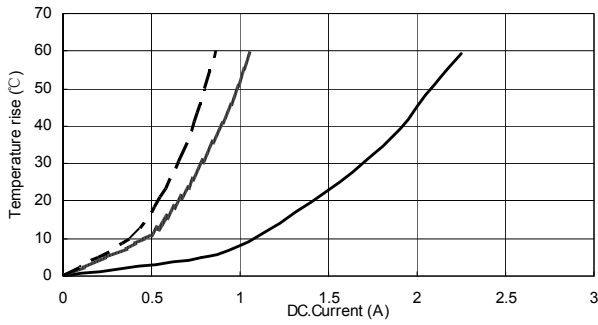
※\*3: Isat: DC current at which the inductance drops approximate 30% from its value without current;

※\*4: Irms: DC current that causes the temperature rise ( $\Delta T = 40^{\circ}\text{C}$ ) from 20°C ambient.

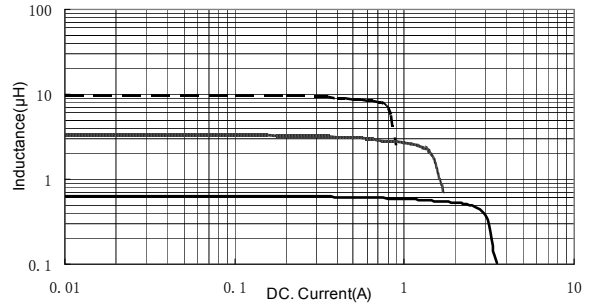
# TYPICAL ELECTRICAL CHARACTERISTICS

## SWPA252010S Series

Temperature vs. DC Current Characteristics

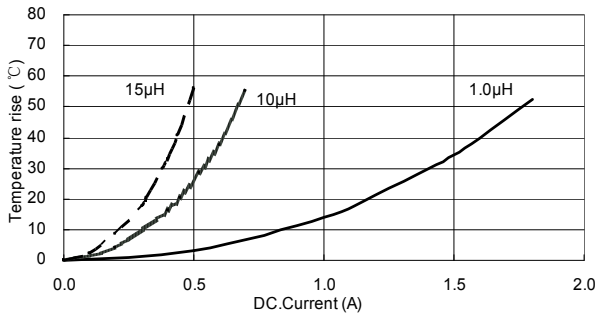


Inductance vs. DC Current Characteristics

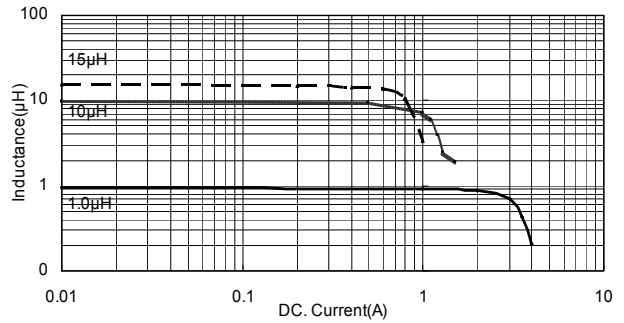


## SWPA252012S Series

Temperature vs. DC Current Characteristics

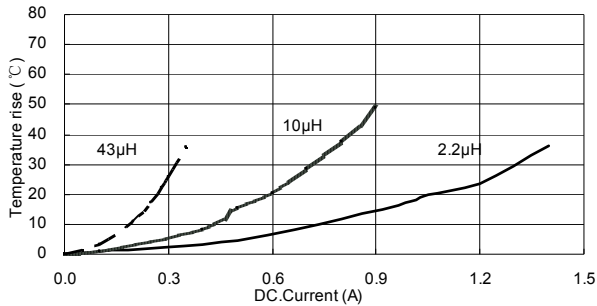


Inductance vs. DC Current Characteristics

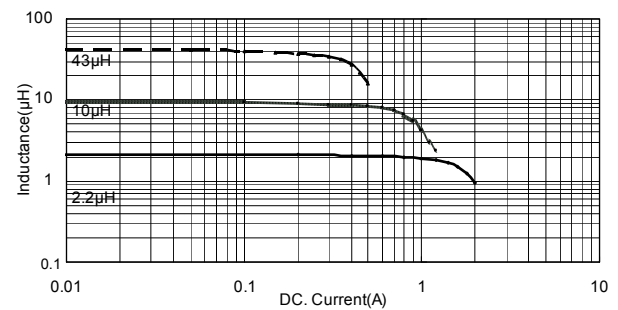


## SWPA3010S Series

Temperature vs. DC Current Characteristics

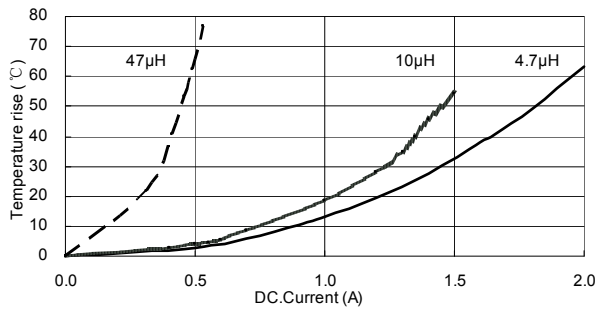


Inductance vs. DC Current Characteristics

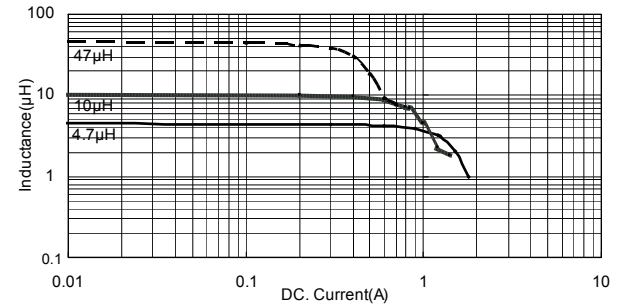


## SWPA3012S Series

Temperature vs. DC Current Characteristics



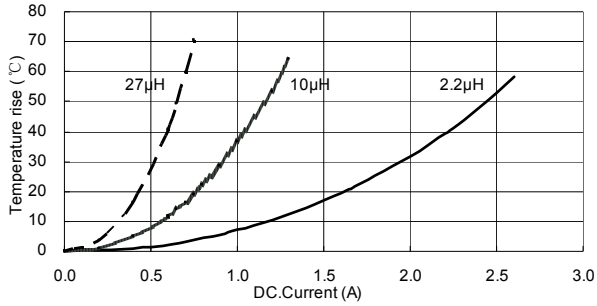
Inductance vs. DC Current Characteristics



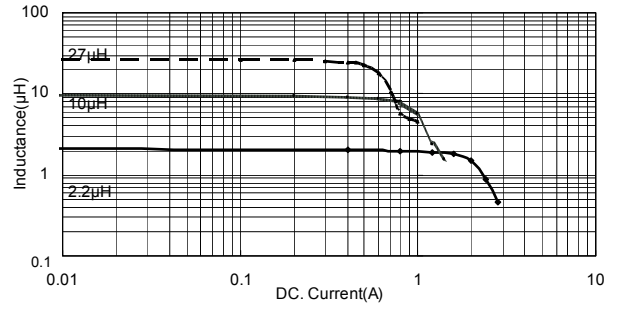
# TYPICAL ELECTRICAL CHARACTERISTICS

## SWPA3015S Series

Temperature vs. DC Current Characteristics

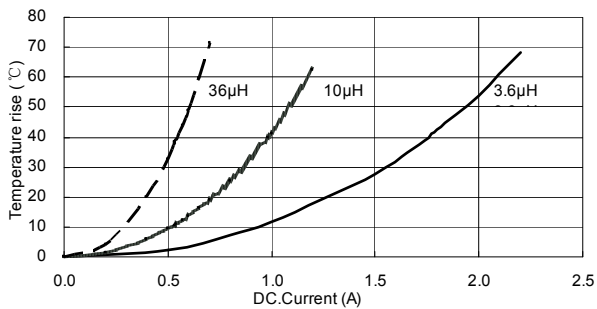


Inductance vs. DC Current Characteristics

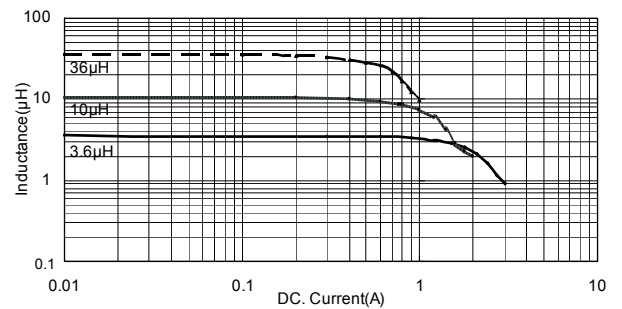


## SWPA4012S Series

Temperature vs. DC Current Characteristics

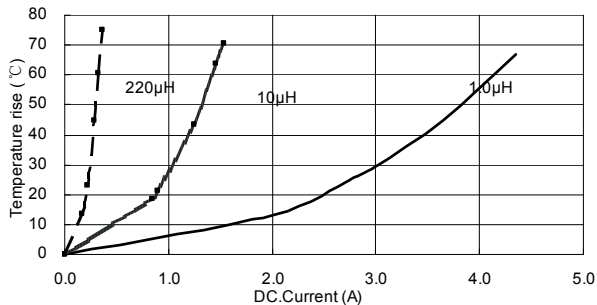


Inductance vs. DC Current Characteristic

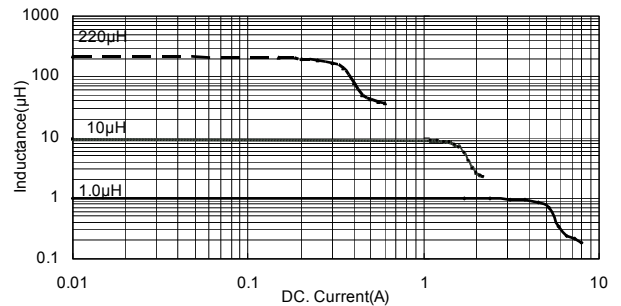


## SWPA4018S Series

Temperature vs. DC Current Characteristics

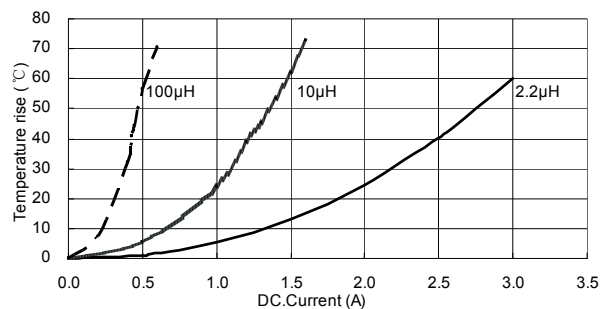


Inductance vs. DC Current Characteristics

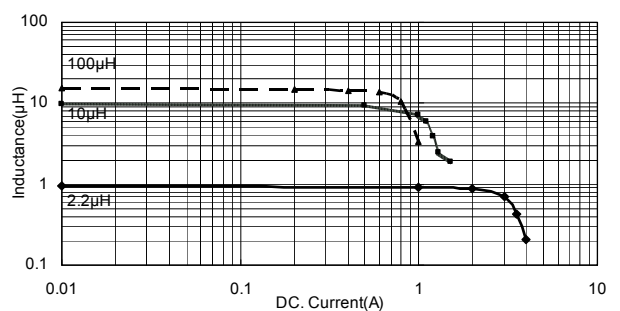


## SWPA4020S Series

Temperature vs. DC Current Characteristics



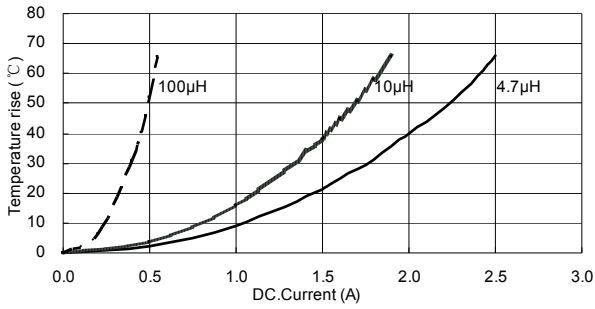
Inductance vs. DC Current Characteristics



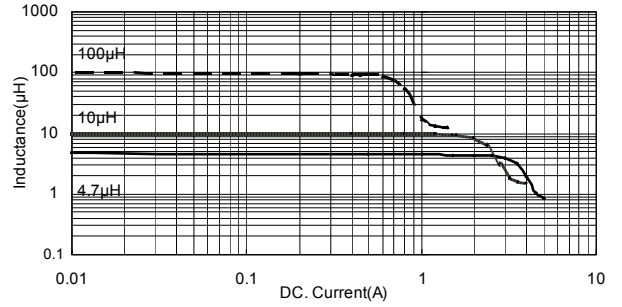
# TYPICAL ELECTRICAL CHARACTERISTICS

## SWPA4030S Series

Temperature vs. DC Current Characteristics

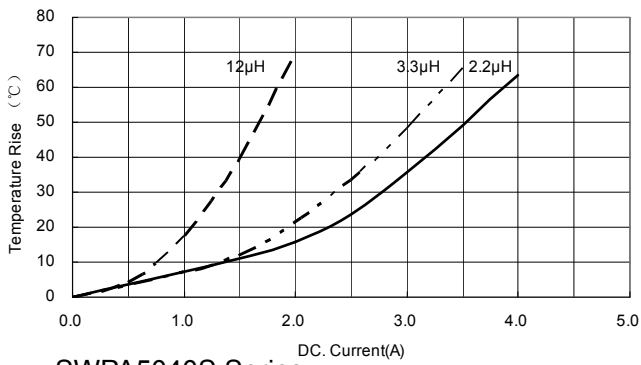


Inductance vs. DC Current Characteristics

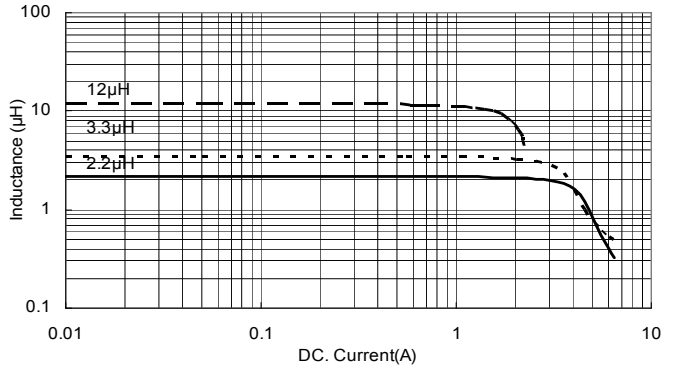


## SWPA5020S Series

Temperature vs. DC Current Characteristics

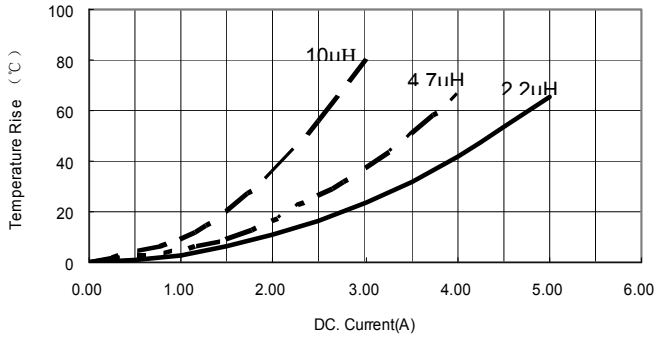


Inductance vs. DC Current Characteristics

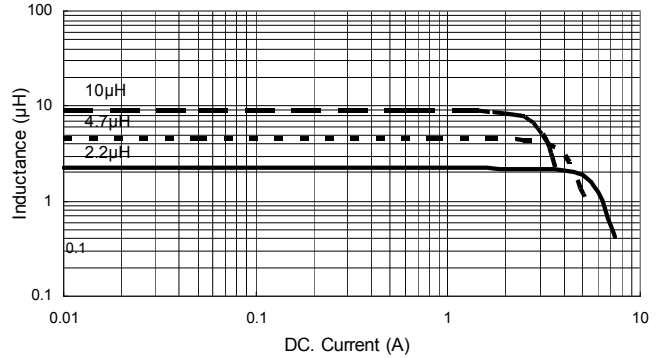


## SWPA5040S Series

Temperature vs. DC Current Characteristics

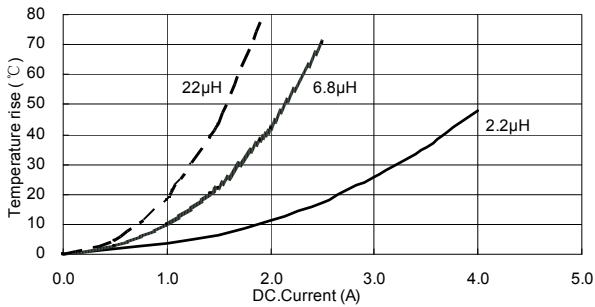


Inductance vs. DC Current Characteristics

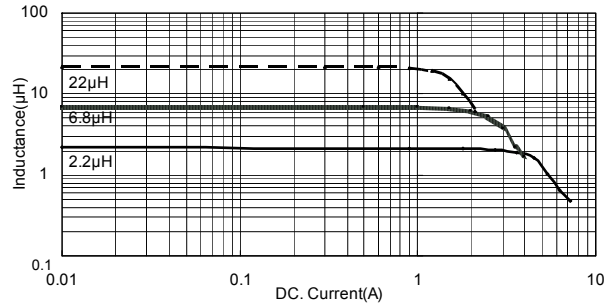


## SWPA6020S Series

Temperature vs. DC Current Characteristics



Inductance vs. DC Current Characteristics

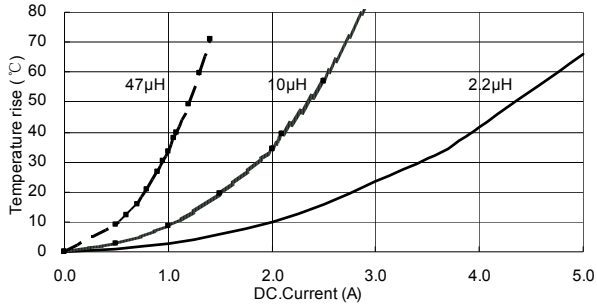




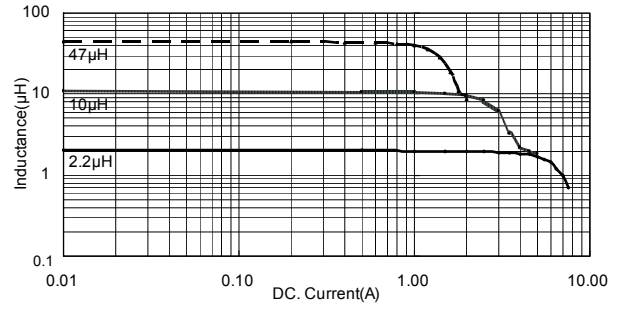
# TYPICAL ELECTRICAL CHARACTERISTICS

## SWPA6028S Series

Temperature vs. DC Current Characteristics

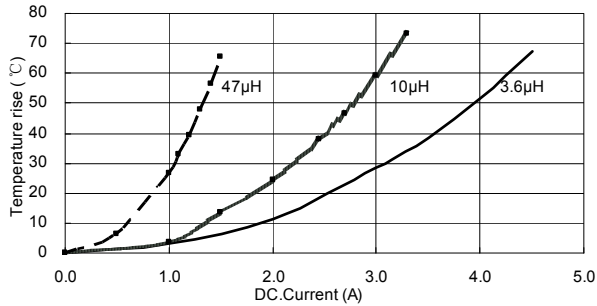


Inductance vs. DC Current Characteristics

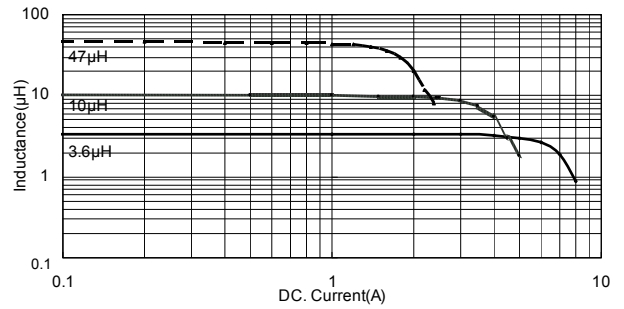


## SWPA6045S Series

Temperature vs. DC Current Characteristics

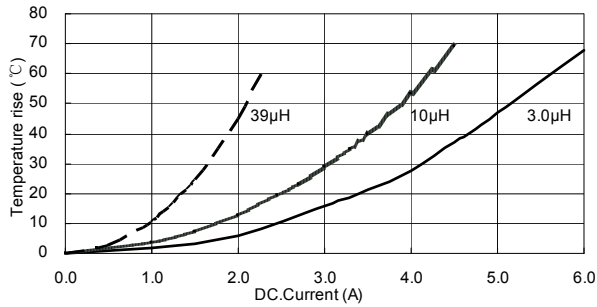


Inductance vs. DC Current Characteristics



## SWPA8040S Series

Temperature vs. DC Current Characteristics



Inductance vs. DC Current Characteristics

