

# 绕线贴片功率电感—SWRH-DR 系列

## Wire Wound SMD Power Inductors – SWRH – DR Series



### 工作温度

Operating Temp

- ◆ -40℃ ~ +125℃ (Including self-heating)

### 特征

Features

- ◆ 高饱和电流, 低 DCR
- ◆ 适合表面贴装
- ◆ 闭合磁路结构设计, 减少漏磁
- ◆ High saturation current, low DCR
- ◆ Suitable for surface mounting equipment
- ◆ Close magnetic circuit design reduce leakage

### 用途

Applications

- ◆ 用于安防、仪器仪表等工业电子和 TV、路由器、游戏机等消费电子的滤波、DC/DC 转换、去耦。
- ◆ Used for filtering, DC/DC conversion, and decoupling in industrial electronics such as security and instrumentation, as well as consumer electronics such as TVs, routers, and game consoles.

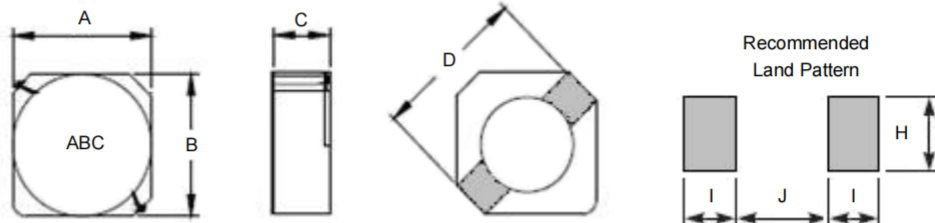
### 产品型号

Product Identification

| 1                                                                               | 2    | 3                                                 | 4    | 5                         | 6 |
|---------------------------------------------------------------------------------|------|---------------------------------------------------|------|---------------------------|---|
| SWRH                                                                            | 2D11 | R                                                 | -1R2 | N                         | T |
| 1                                                                               | 2    |                                                   | 3    | 4                         |   |
| 分类 Type                                                                         |      | 外形尺寸 (L×W) (mm)<br>External Dimensions (L×W) (mm) |      | 结构 Configuration          |   |
| SWRH 绕线贴片功率电感<br>Wire Wound SMD Type<br>Power Inductors (With<br>Metallic Base) |      | 2D11~3D16                                         |      | R R Type Base             |   |
| 4                                                                               |      | 5                                                 |      | 6                         |   |
| 公称电感量 Nominal Inductance                                                        |      | 电感公差 Inductance Tolerance                         |      | 包装 Packing                |   |
| Example Nominal Value                                                           |      | M ± 20%                                           |      | T 编带 Tape Carrier Package |   |
| 1R2 1.2μH                                                                       |      | N ± 30%                                           |      |                           |   |
| 101 100μH                                                                       |      |                                                   |      |                           |   |

### 外观尺寸

Shape and Dimensions



Unit: mm

| Series    | A max. | B max. | C max. | D typ. | E typ. | F typ. | G typ. | H typ. | I typ. |
|-----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| SWRH2D11R | 3.3    | 3.3    | 1.3    | 4.4    | 1.2    | 1.2    | 1.3    | 1.7    | 1.3    |
| SWRH2D14R | 3.3    | 3.3    | 1.6    | 4.4    | 1.2    | 1.2    | 1.3    | 1.7    | 1.3    |
| SWRH2D18R | 3.3    | 3.3    | 2.1    | 4.4    | 1.2    | 1.2    | 1.3    | 1.7    | 1.3    |
| SWRH3D11R | 4.2    | 4.2    | 1.3    | 5.5    | 1.2    | 1.2    | 1.4    | 2.4    | 1.5    |
| SWRH3D14R | 4.2    | 4.2    | 1.6    | 5.5    | 1.2    | 1.2    | 1.4    | 2.4    | 1.5    |
| SWRH3D16R | 4.2    | 4.2    | 1.8    | 5.5    | 1.4    | 1.4    | 1.4    | 2.4    | 1.5    |

## 规格特性 Specifications

SWRH2D11R

| 型号<br>Part Number | 电感量<br>Inductance | L 测试条件<br>L Test Condition | 直流电阻<br>Max. DC Resistance | 额定电流<br>Max. Rated Current |
|-------------------|-------------------|----------------------------|----------------------------|----------------------------|
| 单位 Units          | μH                | Hz, V                      | Ω                          | A                          |
| 符号 Symbol         | L                 | -                          | DCR                        | Ir                         |
| SWRH2D11R-1R2NT   | 1.2±30%           | 100k, 0.3V                 | 0.068                      | 0.90                       |
| SWRH2D11R-2R2NT   | 2.2±30%           | 100k, 0.3V                 | 0.098                      | 0.78                       |
| SWRH2D11R-3R3NT   | 3.3±30%           | 100k, 0.3V                 | 0.123                      | 0.60                       |
| SWRH2D11R-4R7NT   | 4.7±30%           | 100k, 0.3V                 | 0.170                      | 0.50                       |
| SWRH2D11R-6R8NT   | 6.8±30%           | 100k, 0.3V                 | 0.260                      | 0.44                       |
| SWRH2D11R-100MT   | 10±20%            | 1k, 0.3V                   | 0.400                      | 0.35                       |

SWRH2D14R

| 型号<br>Part Number | 电感量<br>Inductance | L 测试条件<br>L Test Condition | 直流电阻<br>Max. DC Resistance | 额定电流<br>Max. Rated Current |
|-------------------|-------------------|----------------------------|----------------------------|----------------------------|
| 单位 Units          | μH                | Hz, V                      | Ω                          | A                          |
| 符号 Symbol         | L                 | -                          | DCR                        | Ir                         |
| SWRH2D14R-1R5NT   | 1.5±30%           | 100k, 0.3V                 | 0.063                      | 1.80                       |
| SWRH2D14R-1R8NT   | 1.8±30%           | 100k, 0.3V                 | 0.075                      | 1.65                       |
| SWRH2D14R-2R2NT   | 2.2±30%           | 100k, 0.3V                 | 0.094                      | 1.50                       |
| SWRH2D14R-2R7NT   | 2.7±30%           | 100k, 0.3V                 | 0.106                      | 1.35                       |
| SWRH2D14R-3R3NT   | 3.3±30%           | 100k, 0.3V                 | 0.125                      | 1.20                       |
| SWRH2D14R-3R9NT   | 3.9±30%           | 100k, 0.3V                 | 0.138                      | 1.10                       |
| SWRH2D14R-4R7NT   | 4.7±30%           | 100k, 0.3V                 | 0.169                      | 1.00                       |
| SWRH2D14R-5R6NT   | 5.6±30%           | 100k, 0.3V                 | 0.188                      | 0.95                       |
| SWRH2D14R-6R8NT   | 6.8±30%           | 100k, 0.3V                 | 0.213                      | 0.85                       |
| SWRH2D14R-8R2NT   | 8.2±30%           | 100k, 0.3V                 | 0.281                      | 0.80                       |
| SWRH2D14R-100MT   | 10±20%            | 1k, 0.3V                   | 0.294                      | 0.70                       |
| SWRH2D14R-120MT   | 12±20%            | 1k, 0.3V                   | 0.394                      | 0.62                       |
| SWRH2D14R-220MT   | 22±20%            | 1k, 0.3V                   | 0.720                      | 0.43                       |

SWRH2D18R

| 型号<br>Part Number | 电感量<br>Inductance | L 测试条件<br>L Test Condition | 直流电阻<br>Max. DC Resistance | 额定电流<br>Max. Rated Current |
|-------------------|-------------------|----------------------------|----------------------------|----------------------------|
| 单位 Units          | μH                | Hz, V                      | Ω                          | A                          |
| 符号 Symbol         | L                 | -                          | DCR                        | Ir                         |
| SWRH2D18R-2R2NT   | 2.2±30%           | 100k, 0.3V                 | 0.041                      | 0.85                       |
| SWRH2D18R-3R3NT   | 3.3±30%           | 100k, 0.3V                 | 0.054                      | 0.75                       |
| SWRH2D18R-4R7NT   | 4.7±30%           | 100k, 0.3V                 | 0.078                      | 0.63                       |
| SWRH2D18R-6R8NT   | 6.8±30%           | 100k, 0.3V                 | 0.106                      | 0.52                       |
| SWRH2D18R-100MT   | 10±20%            | 1k, 0.3V                   | 0.180                      | 0.43                       |
| SWRH2D18R-150MT   | 15±20%            | 1k, 0.3V                   | 0.220                      | 0.35                       |
| SWRH2D18R-220MT   | 22±20%            | 1k, 0.3V                   | 0.320                      | 0.30                       |
| SWRH2D18R-330MT   | 33±20%            | 1k, 0.3V                   | 0.460                      | 0.24                       |
| SWRH2D18R-470MT   | 47±20%            | 1k, 0.3V                   | 0.660                      | 0.20                       |

SWRH3D11R

| 型号<br>Part Number | 电感量<br>Inductance | L 测试条件<br>L Test Condition | 直流电阻<br>Max. DC Resistance | 额定电流<br>Max. Rated Current |
|-------------------|-------------------|----------------------------|----------------------------|----------------------------|
| 单位 Units          | μH                | Hz, V                      | Ω                          | A                          |
| 符号 Symbol         | L                 | -                          | DCR                        | Ir                         |
| SWRH3D11R-2R7NT   | 2.7±30%           | 100k, 0.3V                 | 0.078                      | 0.50                       |
| SWRH3D11R-3R3NT   | 3.3±30%           | 100k, 0.3V                 | 0.099                      | 0.45                       |
| SWRH3D11R-4R7NT   | 4.7±30%           | 100k, 0.3V                 | 0.123                      | 0.40                       |
| SWRH3D11R-6R8NT   | 6.8±30%           | 100k, 0.3V                 | 0.180                      | 0.34                       |
| SWRH3D11R-8R2NT   | 8.2±30%           | 100k, 0.3V                 | 0.204                      | 0.32                       |
| SWRH3D11R-100MT   | 10±20%            | 1k, 0.3V                   | 0.240                      | 0.28                       |
| SWRH3D11R-120MT   | 12±20%            | 1k, 0.3V                   | 0.276                      | 0.25                       |

规格特性  
Specifications

SWRH3D11R

| 型号<br>Part Number | 电感量<br>Inductance | L 测试条件<br>L Test Condition | 直流电阻<br>Max. DC Resistance | 额定电流<br>Max. Rated Current |
|-------------------|-------------------|----------------------------|----------------------------|----------------------------|
| 单位 Units          | μH                | Hz, V                      | Ω                          | A                          |
| 符号 Symbol         | L                 | -                          | DCR                        | Ir                         |
| SWRH3D11R-150MT   | 15±20%            | 1k, 0.3V                   | 0.372                      | 0.23                       |
| SWRH3D11R-180MT   | 18±20%            | 1k, 0.3V                   | 0.468                      | 0.21                       |
| SWRH3D11R-270MT   | 27±20%            | 1k, 0.3V                   | 0.726                      | 0.17                       |
| SWRH3D11R-330MT   | 33±20%            | 1k, 0.3V                   | 0.822                      | 0.15                       |
| SWRH3D11R-390MT   | 39±20%            | 1k, 0.3V                   | 0.942                      | 0.14                       |

SWRH3D14R

| 型号<br>Part Number | 电感量<br>Inductance | L 测试条件<br>L Test Condition | 直流电阻<br>Max. DC Resistance | 额定电流<br>Max. Rated Current |
|-------------------|-------------------|----------------------------|----------------------------|----------------------------|
| 单位 Units          | μH                | Hz, V                      | Ω                          | A                          |
| 符号 Symbol         | L                 | -                          | DCR                        | Ir                         |
| SWRH3D14R-1R5NT   | 1.5±30%           | 100k, 0.3V                 | 0.055                      | 1.85                       |
| SWRH3D14R-1R7NT   | 1.7±30%           | 100k, 0.3V                 | 0.063                      | 1.85                       |
| SWRH3D14R-2R2NT   | 2.2±30%           | 100k, 0.3V                 | 0.069                      | 1.60                       |
| SWRH3D14R-2R7NT   | 2.7±30%           | 100k, 0.3V                 | 0.088                      | 1.45                       |
| SWRH3D14R-3R3NT   | 3.3±30%           | 100k, 0.3V                 | 0.100                      | 1.35                       |
| SWRH3D14R-3R9NT   | 3.9±30%           | 100k, 0.3V                 | 0.135                      | 1.15                       |
| SWRH3D14R-4R7NT   | 4.7±30%           | 100k, 0.3V                 | 0.150                      | 1.10                       |
| SWRH3D14R-6R8NT   | 6.8±30%           | 100k, 0.3V                 | 0.190                      | 1.00                       |
| SWRH3D14R-8R2NT   | 8.2±30%           | 100k, 0.3V                 | 0.238                      | 0.82                       |
| SWRH3D14R-100MT   | 10±20%            | 1k, 0.3V                   | 0.262                      | 0.75                       |
| SWRH3D14R-120MT   | 12±20%            | 1k, 0.3V                   | 0.350                      | 0.67                       |
| SWRH3D14R-150MT   | 15±20%            | 1k, 0.3V                   | 0.488                      | 0.60                       |
| SWRH3D14R-220MT   | 22±20%            | 1k, 0.3V                   | 0.575                      | 0.52                       |

SWRH3D16R

| 型号<br>Part Number | 电感量<br>Inductance | L 测试条件<br>L Test Condition | 直流电阻<br>Max. DC Resistance | 额定电流<br>Max. Rated Current |
|-------------------|-------------------|----------------------------|----------------------------|----------------------------|
| 单位 Units          | μH                | Hz, V                      | Ω                          | A                          |
| 符号 Symbol         | L                 | -                          | DCR                        | Ir                         |
| SWRH3D16R-1R5NT   | 1.5±30%           | 100k, 0.3V                 | 0.052                      | 1.55                       |
| SWRH3D16R-2R2NT   | 2.2±30%           | 100k, 0.3V                 | 0.072                      | 1.20                       |
| SWRH3D16R-3R3NT   | 3.3±30%           | 100k, 0.3V                 | 0.085                      | 1.10                       |
| SWRH3D16R-4R7NT   | 4.7±30%           | 100k, 0.3V                 | 0.105                      | 0.90                       |
| SWRH3D16R-6R8NT   | 6.8±30%           | 100k, 0.3V                 | 0.170                      | 0.73                       |
| SWRH3D16R-8R2NT   | 8.2±30%           | 100k, 0.3V                 | 0.190                      | 0.65                       |
| SWRH3D16R-100MT   | 10±20%            | 1k, 0.3V                   | 0.210                      | 0.55                       |
| SWRH3D16R-150MT   | 15±20%            | 1k, 0.3V                   | 0.295                      | 0.45                       |
| SWRH3D16R-220MT   | 22±20%            | 1k, 0.3V                   | 0.430                      | 0.40                       |
| SWRH3D16R-330MT   | 33±20%            | 1k, 0.3V                   | 0.660                      | 0.32                       |