

Wire Wound SMD Power Inductors – SWRH-DR Series

Operating Temperature: -40°C~+105°C (Including Self-heating)



FEATURES

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

APPLICATIONS

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

PRODUCT IDENTIFICATION

SWRH

2D11

R

-1R2

N

T

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⑤

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| | |
|------|--|
| ① | Type |
| SWRH | Wire Wound SMD Type Power Inductors (With Metallic Base) |

| | |
|---|---------------------|
| ② | External Dimensions |
| | 2D11~3D16 |

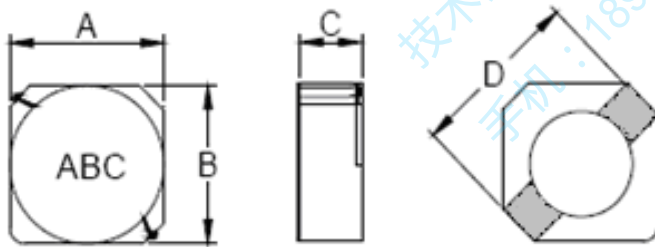
| | |
|---|---------------|
| ③ | Configuration |
| R | R Type Base |

| | | |
|---|--------------------|---------------|
| ④ | Nominal Inductance | |
| | Example | Nominal Value |
| | 1R2 | 1.2μH |
| | 101 | 100μH |

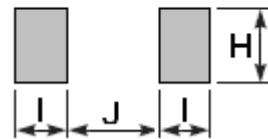
| | | |
|---|----------------------|------|
| ⑤ | Inductance Tolerance | |
| M | | ±20% |
| N | | ±30% |

| | |
|---|----------------------|
| ⑥ | Packing |
| T | Tape Carrier Package |

SHAPE AND DIMENSIONS



Recommended Land Pattern



Unit: mm

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

SPECIFICATIONS

SWRH2D11R

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

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

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

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

SPECIFICATIONS

SWRH3D11R

| Part Number | Inductance | L Test Condition | Max. DC Resistance | Max. Rated Current |
|-----------------|---------------|------------------|--------------------|--------------------|
| Units | μH | Hz, V | Ω | A |
| Symbol | L | - | DCR | I _r |
| SWRH3D11R-100MT | 10±20% | 1k, 0.3V | 0.240 | 0.28 |
| SWRH3D11R-120MT | 12±20% | 1k, 0.3V | 0.276 | 0.25 |
| 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

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

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