

# Wire Wound SMD Power Inductors – SWRH – DR Series



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

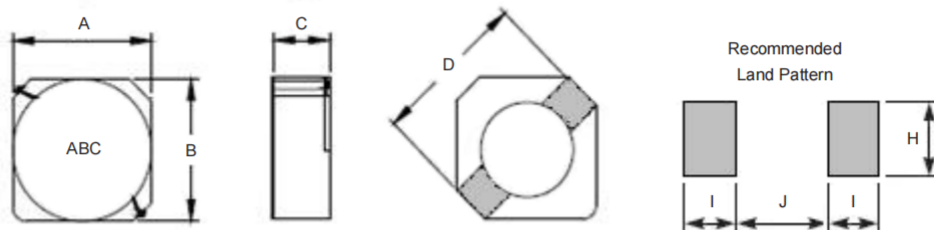
- FEATURES**
- ◆ High saturation current, low DCR
  - ◆ Suitable for surface mounting equipment
  - ◆ Close magnetic circuit design reduce leakage

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

**PRODUCT IDENTIFICATION**

1	2	3	4	5	6
<b>SWRH</b>	<b>2D11</b>	<b>R</b>	<b>-1R2</b>	<b>N</b>	<b>T</b>
<b>1 Type</b>		<b>2 External Dimensions (L×W) (mm)</b>		<b>3 Configuration</b>	
SWRH	Wire Wound SMD Type Power Inductors (With Metallic Base)		2D11~3D16		R   R Type Base
<b>4 Nominal Inductance</b>		<b>5 Inductance Tolerance</b>		<b>6 Packing</b>	
Example	Nominal Value		M	±20%	
1R2	1.2μH		N	±30%	
101	100μH				T   Tape Carrier Package

**SHAPE AND DIMENSIONS**



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

Unit: mm

## SPECIFICATIONS SWRH2D11R

Part Number	Inductance	L Test Condition	Max. DC Resistance	Max. Rated Current
Units	$\mu\text{H}$	Hz, V	$\Omega$	A
Symbol	L	-	DCR	$I_r$
SWRH2D11R-1R2NT	1.2 $\pm$ 30%	100k, 0.3V	0.068	0.90
SWRH2D11R-2R2NT	2.2 $\pm$ 30%	100k, 0.3V	0.098	0.78
SWRH2D11R-3R3NT	3.3 $\pm$ 30%	100k, 0.3V	0.123	0.60
SWRH2D11R-4R7NT	4.7 $\pm$ 30%	100k, 0.3V	0.170	0.50
SWRH2D11R-6R8NT	6.8 $\pm$ 30%	100k, 0.3V	0.260	0.44
SWRH2D11R-100MT	10 $\pm$ 20%	1k, 0.3V	0.400	0.35

## SWRH2D14R

Part Number	Inductance	L Test Condition	Max. DC Resistance	Max. Rated Current
Units	$\mu\text{H}$	Hz, V	$\Omega$	A
Symbol	L	-	DCR	$I_r$
SWRH2D14R-1R5NT	1.5 $\pm$ 30%	100k, 0.3V	0.063	1.80
SWRH2D14R-1R8NT	1.8 $\pm$ 30%	100k, 0.3V	0.075	1.65
SWRH2D14R-2R2NT	2.2 $\pm$ 30%	100k, 0.3V	0.094	1.50
SWRH2D14R-2R7NT	2.7 $\pm$ 30%	100k, 0.3V	0.106	1.35
SWRH2D14R-3R3NT	3.3 $\pm$ 30%	100k, 0.3V	0.125	1.20
SWRH2D14R-3R9NT	3.9 $\pm$ 30%	100k, 0.3V	0.138	1.10
SWRH2D14R-4R7NT	4.7 $\pm$ 30%	100k, 0.3V	0.169	1.00
SWRH2D14R-5R6NT	5.6 $\pm$ 30%	100k, 0.3V	0.188	0.95
SWRH2D14R-6R8NT	6.8 $\pm$ 30%	100k, 0.3V	0.213	0.85
SWRH2D14R-8R2NT	8.2 $\pm$ 30%	100k, 0.3V	0.281	0.80
SWRH2D14R-100MT	10 $\pm$ 20%	1k, 0.3V	0.294	0.70
SWRH2D14R-120MT	12 $\pm$ 20%	1k, 0.3V	0.394	0.62
SWRH2D14R-220MT	22 $\pm$ 20%	1k, 0.3V	0.720	0.43

## SWRH2D18R

Part Number	Inductance	L Test Condition	Max. DC Resistance	Max. Rated Current
Units	$\mu\text{H}$	Hz, V	$\Omega$	A
Symbol	L	-	DCR	$I_r$
SWRH2D18R-2R2NT	2.2 $\pm$ 30%	100k, 0.3V	0.041	0.85
SWRH2D18R-3R3NT	3.3 $\pm$ 30%	100k, 0.3V	0.054	0.75
SWRH2D18R-4R7NT	4.7 $\pm$ 30%	100k, 0.3V	0.078	0.63
SWRH2D18R-6R8NT	6.8 $\pm$ 30%	100k, 0.3V	0.106	0.52
SWRH2D18R-100MT	10 $\pm$ 20%	1k, 0.3V	0.180	0.43
SWRH2D18R-150MT	15 $\pm$ 20%	1k, 0.3V	0.220	0.35
SWRH2D18R-220MT	22 $\pm$ 20%	1k, 0.3V	0.320	0.30
SWRH2D18R-330MT	33 $\pm$ 20%	1k, 0.3V	0.460	0.24
SWRH2D18R-470MT	47 $\pm$ 20%	1k, 0.3V	0.660	0.20

## SWRH3D11R

Part Number	Inductance	L Test Condition	Max. DC Resistance	Max. Rated Current
Units	$\mu\text{H}$	Hz, V	$\Omega$	A
Symbol	L	-	DCR	$I_r$
SWRH3D11R-2R7NT	2.7 $\pm$ 30%	100k, 0.3V	0.078	0.50
SWRH3D11R-3R3NT	3.3 $\pm$ 30%	100k, 0.3V	0.099	0.45
SWRH3D11R-4R7NT	4.7 $\pm$ 30%	100k, 0.3V	0.123	0.40
SWRH3D11R-6R8NT	6.8 $\pm$ 30%	100k, 0.3V	0.180	0.34
SWRH3D11R-8R2NT	8.2 $\pm$ 30%	100k, 0.3V	0.204	0.32
SWRH3D11R-100MT	10 $\pm$ 20%	1k, 0.3V	0.240	0.28
SWRH3D11R-120MT	12 $\pm$ 20%	1k, 0.3V	0.276	0.25

**SPECIFICATIONS** SWRH3D11R

Part Number	Inductance	L Test Condition	Max. DC Resistance	Max. Rated Current
Units	μH	Hz, V	Ω	A
Symbol	L	-	DCR	I <sub>r</sub>
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 <sub>r</sub>
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 <sub>r</sub>
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