

Wire Wound SMD Power Inductors – SWRH – DR Series



Operating Temp ◆ $-40^{\circ}\text{C} \sim +125^{\circ}\text{C}$ (Including Self-heating)

Features

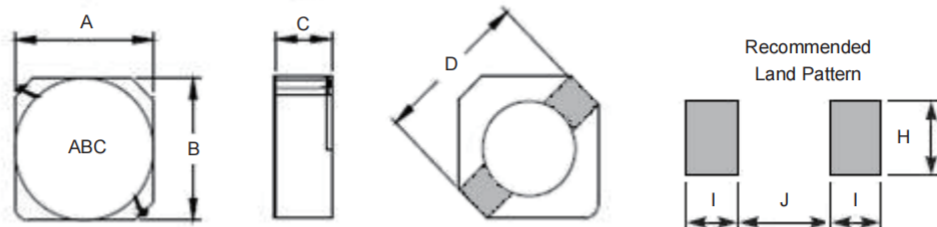
- ◆ High saturation current, low DCR
- ◆ Suitable for surface mounting equipment
- ◆ Close magnetic circuit design reduce leakage

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

Shape and Dimensions



Unit: mm

Series	A max.	B max.	C max.	D typ.	E typ.	F typ.	I typ.	J typ.	H 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

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 $\pm$ 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	μH	Hz, V	Ω	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	μH	Hz, V	Ω	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	μH	Hz, V	Ω	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_r
SWRH3D11R-150MT	$15 \pm 20\%$	1k, 0.3V	0.372	0.23
SWRH3D11R-180MT	$18 \pm 20\%$	1k, 0.3V	0.468	0.21
SWRH3D11R-270MT	$27 \pm 20\%$	1k, 0.3V	0.726	0.17
SWRH3D11R-330MT	$33 \pm 20\%$	1k, 0.3V	0.822	0.15
SWRH3D11R-390MT	$39 \pm 20\%$	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	$1.5 \pm 30\%$	100k, 0.3V	0.055	1.85
SWRH3D14R-1R7NT	$1.7 \pm 30\%$	100k, 0.3V	0.063	1.85
SWRH3D14R-2R2NT	$2.2 \pm 30\%$	100k, 0.3V	0.069	1.60
SWRH3D14R-2R7NT	$2.7 \pm 30\%$	100k, 0.3V	0.088	1.45
SWRH3D14R-3R3NT	$3.3 \pm 30\%$	100k, 0.3V	0.100	1.35
SWRH3D14R-3R9NT	$3.9 \pm 30\%$	100k, 0.3V	0.135	1.15
SWRH3D14R-4R7NT	$4.7 \pm 30\%$	100k, 0.3V	0.150	1.10
SWRH3D14R-6R8NT	$6.8 \pm 30\%$	100k, 0.3V	0.190	1.00
SWRH3D14R-8R2NT	$8.2 \pm 30\%$	100k, 0.3V	0.238	0.82
SWRH3D14R-100MT	$10 \pm 20\%$	1k, 0.3V	0.262	0.75
SWRH3D14R-120MT	$12 \pm 20\%$	1k, 0.3V	0.350	0.67
SWRH3D14R-150MT	$15 \pm 20\%$	1k, 0.3V	0.488	0.60
SWRH3D14R-220MT	$22 \pm 20\%$	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	$1.5 \pm 30\%$	100k, 0.3V	0.052	1.55
SWRH3D16R-2R2NT	$2.2 \pm 30\%$	100k, 0.3V	0.072	1.20
SWRH3D16R-3R3NT	$3.3 \pm 30\%$	100k, 0.3V	0.085	1.10
SWRH3D16R-4R7NT	$4.7 \pm 30\%$	100k, 0.3V	0.105	0.90
SWRH3D16R-6R8NT	$6.8 \pm 30\%$	100k, 0.3V	0.170	0.73
SWRH3D16R-8R2NT	$8.2 \pm 30\%$	100k, 0.3V	0.190	0.65
SWRH3D16R-100MT	$10 \pm 20\%$	1k, 0.3V	0.210	0.55
SWRH3D16R-150MT	$15 \pm 20\%$	1k, 0.3V	0.295	0.45
SWRH3D16R-220MT	$22 \pm 20\%$	1k, 0.3V	0.430	0.40
SWRH3D16R-330MT	$33 \pm 20\%$	1k, 0.3V	0.660	0.32