

# Wire Wound SMD Power Inductors- SWRH-C Series

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

## FEATURES

Various high power inductors are superior to be high saturation  
Suitable for surface mounting equipment

## APPLICATIONS

Power supply choke for small electrical equipments such as VTR, LCD display, Notebook, communication equipment, and so on.

## PRODUCT IDENTIFICATION

SWRH                      1003                      C                      -1R5                      N                      I

External Dimensions
1003~1005

Nominal Inductance	
Example	Nominal Value
1R5	1.5 $\mu$ H
100	10 $\mu$ H
101	100 $\mu$ H

## SHAPE AND DIMENSIONS

Series	A max.	B max.	C max.	D typ.	I typ.	J typ.	H typ.
SWRH1003C	10.6	10.5	3.0	13.5	1.7	7.3	3.6
SWRH1004C	10.6	10.5	4.0	13.5	1.7	7.3	3.6
SWRH1005C	10.6	10.5	5.2	13.5	1.7	7.3	3.6

## SPECIFICATIONS

### SWRH1003C TYPE

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>
SWRH1003C-1R0NT	1.0±30%	100k, 0.3V	0.009	6.50
SWRH1003C-1R5NT	1.5±30%	100k, 0.3V	0.011	5.80
SWRH1003C-2R2NT	2.2±30%	100k, 0.3V	0.017	5.10
SWRH1003C-3R3NT	3.3±30%	100k, 0.3V	0.021	4.70
SWRH1003C-4R7NT	4.7±30%	100k, 0.3V	0.030	4.00
SWRH1003C-6R8NT	6.8±30%	100k, 0.3V	0.035	3.60
SWRH1003C-8R2NT	8.2±30%	100k, 0.3V	0.050	3.00
SWRH1003C-100MT	10±20%	1k, 0.3V	0.059	2.80
SWRH1003C-150MT	15±20%	1k, 0.3V	0.091	2.05
SWRH1003C-220MT	22±20%	1k, 0.3V	0.143	1.60
SWRH1003C-330MT	33±20%	1k, 0.3V	0.202	1.35
SWRH1003C-470MT	47±20%	1k, 0.3V	0.299	1.20
SWRH1003C-560MT	56±20%	1k, 0.3V	0.325	1.15
SWRH1003C-680MT	68±20%	1k, 0.3V	0.429	0.95
SWRH1003C-820MT	82±20%	1k, 0.3V	0.494	0.80
SWRH1003C-101MT	100±20%	1k, 0.3V	0.683	0.70
SWRH1003C-121MT	120±20%	1k, 0.3V	0.754	0.65

### SWRH1004C TYPE

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>
SWRH1004C-1R5NT	1.5±30%	100k, 0.3V	0.008	6.5
SWRH1004C-2R5NT	2.5±30%	100k, 0.3V	0.011	6.1
SWRH1004C-3R3NT	3.3±30%	100k, 0.3V	0.014	5.6
SWRH1004C-3R8NT	3.8±30%	100k, 0.3V	0.018	5.5
SWRH1004C-4R7NT	4.7±30%	100k, 0.3V	0.022	5.4
SWRH1004C-5R2NT	5.2±30%	100k, 0.3V	0.022	5.4
SWRH1004C-6R8NT	6.8±30%	100k, 0.3V	0.025	5.0
SWRH1004C-7R0NT	7.0±30%	100k, 0.3V	0.027	4.5
SWRH1004C-8R2NT	8.2±30%	100k, 0.3V	0.030	4.1
SWRH1004C-100MT	10±20%	1k, 0.3V	0.035	3.8
SWRH1004C-150MT	15±20%	1k, 0.3V	0.050	3.1
SWRH1004C-220MT	22±20%	1k, 0.3V	0.073	2.5
SWRH1004C-330MT	33±20%	1k, 0.3V	0.093	2.2
SWRH1004C-470MT	47±20%	1k, 0.3V	0.128	1.9
SWRH1004C-560MT	56±20%	1k, 0.3V	0.185	1.6
SWRH1004C-680MT	68±20%	1k, 0.3V	0.213	1.42
SWRH1004C-820MT	82±20%	1k, 0.3V	0.275	1.32
SWRH1004C-101MT	100±20%	1k, 0.3V	0.304	1.25
SWRH1004C-151MT	150±20%	1k, 0.3V	0.506	0.85
SWRH1004C-221MT	220±20%	1k, 0.3V	0.756	0.70
SWRH1004C-331MT	330±20%	1k, 0.3V	1.090	0.52

# SPECIFICATIONS

## SWRH1005C TYPE

Part Number	Inductance	L Test Condition	Max. DC Resistance	Max. Rated Current
Units	H	Hz, V		A
Symbol	L	-	DCR	I <sub>r</sub>
SWRH1005C-3R3NT	3.3±30%	1k, 0.3V	0.013	6.00
SWRH1005C-4R7NT	4.7±30%	1k, 0.3V	0.016	5.70
SWRH1005C-6R8NT	6.8±30%	1k, 0.3V	0.020	5.35
SWRH1005C-8R2NT	8.2±30%	1k, 0.3V	0.023	5.00
SWRH1005C-100MT	10±20%	1k, 0.3V	0.026	4.45
SWRH1005C-120MT	12±20%	1k, 0.3V	0.033	3.80
SWRH1005C-150MT	15±20%	1k, 0.3V	0.041	3.40
SWRH1005C-180MT	18±20%	1k, 0.3V	0.046	3.10
SWRH1005C-220MT	22±20%	1k, 0.3V	0.061	2.90
SWRH1005C-270MT	27±20%	1k, 0.3V	0.069	2.60
SWRH1005C-330MT	33±20%	1k, 0.3V	0.084	2.40
SWRH1005C-390MT	39±20%	1k, 0.3V	0.106	2.25
SWRH1005C-470MT	47±20%	1k, 0.3V	0.130	2.00
SWRH1005C-560MT	56±20%	1k, 0.3V	0.149	1.90
SWRH1005C-680MT	68±20%	1k, 0.3V	0.201	1.60
SWRH1005C-820MT	82±20%	1k, 0.3V	0.227	1.45
SWRH1005C-101MT	100±20%	1k, 0.3V	0.253	1.35
SWRH1005C-121MT	120±20%	1k, 0.3V	0.303	1.18
SWRH1005C-151MT	150±20%	1k, 0.3V	0.370	1.10
SWRH1005C-181MT	180±20%	1k, 0.3V	0.419	1.00
SWRH1005C-221MT	220±20%	1k, 0.3V	0.500	0.94
SWRH1005C-271MT	270±20%	1k, 0.3V	0.672	0.80
SWRH1005C-331MT	330±20%	1k, 0.3V	0.812	0.73
SWRH1005C-391MT	390±20%	1k, 0.3V	0.953	0.70
SWRH1005C-471MT	470±20%	1k, 0.3V	1.290	0.54
SWRH1005C-561MT	560±20%	1k, 0.3V	1.430	0.52
SWRH1005C-681MT	680±20%	1k, 0.3V	1.600	0.51
SWRH1005C-821MT	820±20%	1k, 0.3V	1.770	0.48

1. All test data is referenced to 20°C ambient;
2. The maximum rated current is a DC current which causes initial inductance to decrease by 35% or temperature to rise by 40°C, which is smaller (at ambient reference temperature: 20°C)