

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 μ H
100	10 μ H
101	100 μ 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 _r
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 _r
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 _r
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)