

Wire Wound SMD Power Inductors – SWRH – C Series



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

FEATURES

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

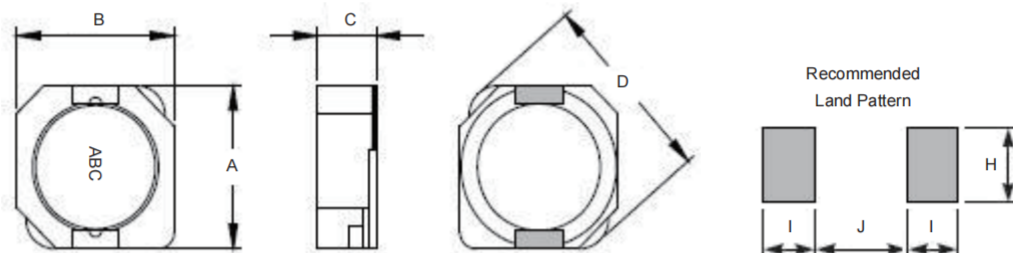
APPLICATIONS

- ◆ 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	1003	C	-1R0	N	T												
1 Type Wire Wound SMD Type Power Inductors (With Metallic Base)		2 External Dimensions 1003~1005		3 Configuration C C Type Base													
4 Nominal Inductance <table border="1"> <thead> <tr> <th>Example</th> <th>Nominal Value</th> </tr> </thead> <tbody> <tr> <td>1R0</td> <td>1.0μH</td> </tr> <tr> <td>100</td> <td>10μH</td> </tr> <tr> <td>101</td> <td>100μH</td> </tr> </tbody> </table>		Example	Nominal Value	1R0	1.0 μH	100	10 μH	101	100 μH	5 Inductance Tolerance <table border="1"> <tbody> <tr> <td>M</td> <td>$\pm 20\%$</td> </tr> <tr> <td>N</td> <td>$\pm 30\%$</td> </tr> </tbody> </table>		M	$\pm 20\%$	N	$\pm 30\%$	6 Packing T Tape Carrier Package	
Example	Nominal Value																
1R0	1.0 μH																
100	10 μH																
101	100 μH																
M	$\pm 20\%$																
N	$\pm 30\%$																

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

Unit: mm

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
SWRH1003C-151MT	150±20%	1k, 0.3V	0.878	0.62
SWRH1003C-221MT	220±20%	1k, 0.3V	1.625	0.60
SWRH1003C-301MT	300±20%	1k, 0.3V	1.700	0.55
SWRH1003C-331MT	330±20%	1k, 0.3V	1.700	0.50
SWRH1003C-391MT	390±20%	1k, 0.3V	1.900	0.30
SWRH1003C-102MT	1000±20%	1k, 0.3V	4.500	0.23

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-6R2NT	6.2±30%	100k, 0.3V	0.025	5.0
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	μH	Hz, V	Ω	A
Symbol	L	-	DCR	I _r
SWRH1005C-3R3NT	3.3 \pm 30%	100k, 0.3V	0.013	6.00
SWRH1005C-4R7NT	4.7 \pm 30%	100k, 0.3V	0.016	5.70
SWRH1005C-6R8NT	6.8 \pm 30%	100k, 0.3V	0.020	5.35
SWRH1005C-8R2NT	8.2 \pm 30%	100k, 0.3V	0.023	5.00
SWRH1005C-100MT	10 \pm 20%	1k, 0.3V	0.026	4.45
SWRH1005C-120MT	12 \pm 20%	1k, 0.3V	0.033	3.80
SWRH1005C-150MT	15 \pm 20%	1k, 0.3V	0.041	3.40
SWRH1005C-180MT	18 \pm 20%	1k, 0.3V	0.046	3.10
SWRH1005C-220MT	22 \pm 20%	1k, 0.3V	0.061	2.90
SWRH1005C-270MT	27 \pm 20%	1k, 0.3V	0.069	2.60
SWRH1005C-330MT	33 \pm 20%	1k, 0.3V	0.084	2.40
SWRH1005C-390MT	39 \pm 20%	1k, 0.3V	0.106	2.25
SWRH1005C-470MT	47 \pm 20%	1k, 0.3V	0.130	2.00
SWRH1005C-560MT	56 \pm 20%	1k, 0.3V	0.149	1.90
SWRH1005C-680MT	68 \pm 20%	1k, 0.3V	0.201	1.60
SWRH1005C-820MT	82 \pm 20%	1k, 0.3V	0.227	1.45
SWRH1005C-101MT	100 \pm 20%	1k, 0.3V	0.253	1.35
SWRH1005C-121MT	120 \pm 20%	1k, 0.3V	0.303	1.18
SWRH1005C-151MT	150 \pm 20%	1k, 0.3V	0.370	1.10
SWRH1005C-181MT	180 \pm 20%	1k, 0.3V	0.419	1.00
SWRH1005C-221MT	220 \pm 20%	1k, 0.3V	0.500	0.94
SWRH1005C-271MT	270 \pm 20%	1k, 0.3V	0.672	0.80
SWRH1005C-331MT	330 \pm 20%	1k, 0.3V	0.812	0.73
SWRH1005C-391MT	390 \pm 20%	1k, 0.3V	0.953	0.70
SWRH1005C-471MT	470 \pm 20%	1k, 0.3V	1.290	0.54
SWRH1005C-561MT	560 \pm 20%	1k, 0.3V	1.430	0.52
SWRH1005C-681MT	680 \pm 20%	1k, 0.3V	1.600	0.51
SWRH1005C-821MT	820 \pm 20%	1k, 0.3V	1.770	0.48

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