

# Wire Wound SMD Power Inductors—SWRH-DC Series

Operating Temperature: -40°C~+105°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

**SWRH**

①

**8D28**

②

**C**

③

**-100**

④

**M**

⑤

**T**

⑥

①	Type
SWRH	Wire Wound SMD Type Power Inductors (With Metallic Base)

②	External Dimensions
	8D28~8D43

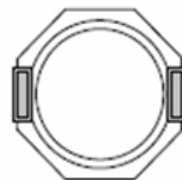
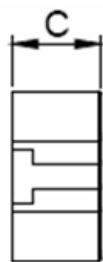
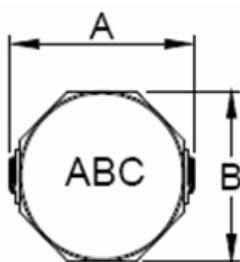
③	Configuration
C	C Type Base

④	Nominal Inductance	
	Example	Nominal Value
	1R0	1.0μH
	100	10μH
	101	100μH

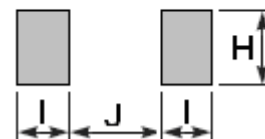
⑤	Inductance Tolerance	
	M	±20%
	N	±30%

⑥	Packing	
	T	Tape Carrier Package

## SHAPE AND DIMENSIONS



Recommended Land Pattern



Unit: mm

Series	A max.	B max.	C max.	I typ.	J typ.	H typ.
SWRH8D28C	10.1	8.3	3.0	2.0	6.1	2.8
SWRH8D38C	10.1	8.3	4.0	2.0	6.1	2.8
SWRH8D43C	10.1	8.3	4.5	2.0	6.1	2.8

## SPECIFICATIONS

### SWRH8D28C TYPE

Part Number	Inductance	L Test Condition	Max. DC Resistance	Max. Rated Current
Units	$\mu$ H	Hz, V	$\Omega$	A
Symbol	L	-	DCR	I <sub>r</sub>
SWRH8D28C-2R5NT	2.5 $\pm$ 30%	100k, 0.3V	0.016	4.50
SWRH8D28C-3R3NT	3.3 $\pm$ 30%	100k, 0.3V	0.018	4.00
SWRH8D28C-4R7NT	4.7 $\pm$ 30%	100k, 0.3V	0.025	3.40
SWRH8D28C-6R8NT	6.8 $\pm$ 30%	100k, 0.3V	0.030	3.00
SWRH8D28C-8R2NT	8.2 $\pm$ 30%	100k, 0.3V	0.038	2.75
SWRH8D28C-100MT	10 $\pm$ 20%	1k, 0.3V	0.047	2.50
SWRH8D28C-150MT	15 $\pm$ 20%	1k, 0.3V	0.069	1.90
SWRH8D28C-220MT	22 $\pm$ 20%	1k, 0.3V	0.099	1.60
SWRH8D28C-330MT	33 $\pm$ 20%	1k, 0.3V	0.156	1.30
SWRH8D28C-470MT	47 $\pm$ 20%	1k, 0.3V	0.195	1.15
SWRH8D28C-680MT	68 $\pm$ 20%	1k, 0.3V	0.286	0.92
SWRH8D28C-820MT	82 $\pm$ 20%	1k, 0.3V	0.375	0.83
SWRH8D28C-101MT	100 $\pm$ 20%	1k, 0.3V	0.430	0.75

### SWRH8D38C TYPE

Part Number	Inductance	L Test Condition	Max. DC Resistance	Max. Rated Current
Units	$\mu$ H	Hz, V	$\Omega$	A
Symbol	L	-	DCR	I <sub>r</sub>
SWRH8D38C-1R5NT	1.5 $\pm$ 30%	100k, 0.3V	0.019	6.00
SWRH8D38C-2R2NT	2.2 $\pm$ 30%	100k, 0.3V	0.021	5.50
SWRH8D38C-3R3NT	3.3 $\pm$ 30%	100k, 0.3V	0.024	5.00
SWRH8D38C-4R7NT	4.7 $\pm$ 30%	100k, 0.3V	0.029	4.40
SWRH8D38C-6R8NT	6.8 $\pm$ 30%	100k, 0.3V	0.038	3.60
SWRH8D38C-8R2NT	8.2 $\pm$ 30%	100k, 0.3V	0.043	3.30
SWRH8D38C-100MT	10 $\pm$ 20%	1k, 0.3V	0.048	3.00
SWRH8D38C-150MT	15 $\pm$ 20%	1k, 0.3V	0.067	2.50
SWRH8D38C-220MT	22 $\pm$ 20%	1k, 0.3V	0.105	2.00
SWRH8D38C-330MT	33 $\pm$ 20%	1k, 0.3V	0.157	1.60
SWRH8D38C-470MT	47 $\pm$ 20%	1k, 0.3V	0.189	1.42
SWRH8D38C-680MT	68 $\pm$ 20%	1k, 0.3V	0.290	1.08
SWRH8D38C-820MT	82 $\pm$ 20%	1k, 0.3V	0.372	0.95
SWRH8D38C-101MT	100 $\pm$ 20%	1k, 0.3V	0.410	0.88

### SWRH8D43C TYPE

Part Number	Inductance	L Test Condition	Max. DC Resistance	Max. Rated Current
Units	$\mu$ H	Hz, V	$\Omega$	A
Symbol	L	-	DCR	I <sub>r</sub>
SWRH8D43C-2R0NT	2.0 $\pm$ 30%	100k, 0.3V	0.014	5.50
SWRH8D43C-2R2NT	2.2 $\pm$ 30%	100k, 0.3V	0.016	5.00
SWRH8D43C-3R3NT	3.3 $\pm$ 30%	100k, 0.3V	0.019	4.50
SWRH8D43C-4R7NT	4.7 $\pm$ 30%	100k, 0.3V	0.022	4.10
SWRH8D43C-6R8NT	6.8 $\pm$ 30%	100k, 0.3V	0.025	3.90
SWRH8D43C-8R2NT	8.2 $\pm$ 30%	100k, 0.3V	0.030	3.50
SWRH8D43C-100MT	10 $\pm$ 20%	1k, 0.3V	0.036	3.20
SWRH8D43C-150MT	15 $\pm$ 20%	1k, 0.3V	0.053	2.30
SWRH8D43C-220MT	22 $\pm$ 20%	1k, 0.3V	0.075	1.80
SWRH8D43C-330MT	33 $\pm$ 20%	1k, 0.3V	0.125	1.40
SWRH8D43C-470MT	47 $\pm$ 20%	1k, 0.3V	0.150	1.30
SWRH8D43C-680MT	68 $\pm$ 20%	1k, 0.3V	0.240	1.00
SWRH8D43C-820MT	82 $\pm$ 20%	1k, 0.3V	0.300	0.90
SWRH8D43C-101MT	100 $\pm$ 20%	1k, 0.3V	0.360	0.80