绕线贴片功率电感—SWRH-DS 系列
Wire Wound SMD Power Inductors – SWRH – DS Series



工作温度 Operating Temp

- -40℃ ~+125℃ (Including Self-heating)

特征 Features

- 高饱和电流，低 DCR
- 适合表面贴装
- 闭合磁路结构设计，减少漏磁
- High saturation current, low DCR
- Suitable for surface mounting equipment
- Close magnetic circuit design reduce leakage

用途 Applications

- 录像机、液晶显示器、笔记本电脑、通讯设备、办公自动化等电子设备的电源扼流
- Power supply choke for small electrical equipments such as DVC, LCD display, notebook, communication equipment, OA equipment and so on.

产品型号 Product Identification

1	2	3	4	5	6
SWRH	3D16	S	-1R5	N	T

1 分类 Type

SWRH	绕线贴片功率电感 Wire Wound SMD Type Power Inductors (With Metallic Base)

2 外形尺寸 External Dimensions

3D16~6D38

3 结构 Configuration

S	S Type Base

4 公称电感量 Nominal Inductance

Example	Nominal Value
1R5	1.5μH
100	10μH
101	100μH

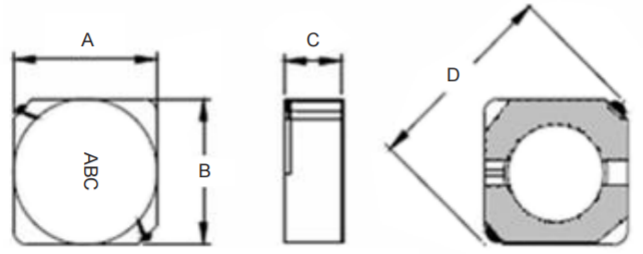
5 电感公差 Inductance Tolerance

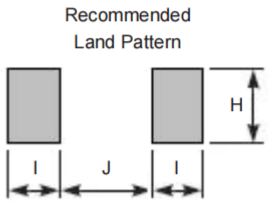
M	±20%
N	±30%

6 包装 Packing

T	编带 Tape Carrier Package

外观尺寸 Shape and Dimensions





Unit: mm

Series	A max.	B max.	C max.	D typ.	I typ.	J typ.	H typ.
SWRH3D16S	4.2	4.2	1.8	5.5	1.7	1.1	4.5
SWRH3D18S	4.2	4.2	2.1	5.5	1.7	1.1	4.5
SWRH3D28S	4.2	4.2	3.2	5.5	1.7	1.1	4.5
SWRH4D18S	5.0	5.0	2.0	6.9	1.9	1.5	5.3
SWRH4D28S	5.0	5.0	3.0	6.9	1.9	1.5	5.3
SWRH5D18S	6.0	6.0	2.0	8.2	2.1	2.0	6.3
SWRH5D28S	6.0	6.0	3.0	8.2	2.1	2.0	6.3
SWRH6D28S	7.0	7.0	3.0	9.5	2.6	2.0	7.3
SWRH6D38S	7.0	7.0	4.0	9.5	2.6	2.0	7.3

规格特性
Specifications

SWRH3D16S TYPE

型号 Part Number	电感量 Inductance	L 测试条件 L Test Condition	直流电阻 Max. DC Resistance	额定电流 Max. Rated Current
单位 Units	μH	Hz, V	Ω	A
符号 Symbol	L	-	DCR	Ir
SWRH3D16S-1R0NT	1.0±30%	100k, 0.3V	0.049	2.70
SWRH3D16S-1R5NT	1.5±30%	100k, 0.3V	0.052	1.35
SWRH3D16S-2R2NT	2.2±30%	100k, 0.3V	0.072	1.20
SWRH3D16S-3R3NT	3.3±30%	100k, 0.3V	0.085	1.10
SWRH3D16S-4R7NT	4.7±30%	100k, 0.3V	0.105	0.90
SWRH3D16S-6R8NT	6.8±30%	100k, 0.3V	0.170	0.73
SWRH3D16S-8R2NT	8.2±30%	100k, 0.3V	0.190	0.66
SWRH3D16S-100MT	10±20%	1k, 0.3V	0.210	0.55
SWRH3D16S-150MT	15±20%	1k, 0.3V	0.295	0.45
SWRH3D16S-220MT	22±20%	1k, 0.3V	0.430	0.40
SWRH3D16S-330MT	33±20%	1k, 0.3V	0.660	0.32

SWRH3D18S TYPE

型号 Part Number	电感量 Inductance	L 测试条件 L Test Condition	直流电阻 Max. DC Resistance	额定电流 Max. Rated Current
单位 Units	μH	Hz, V	Ω	A
符号 Symbol	L	-	DCR	Ir
SWRH3D18S-3R3NT	3.3±30%	100k, 0.3V	0.088	1.45
SWRH3D18S-4R7NT	4.7±30%	100k, 0.3V	0.107	1.35
SWRH3D18S-6R8NT	6.8±30%	100k, 0.3V	0.150	1.10
SWRH3D18S-8R2NT	8.2±30%	100k, 0.3V	0.185	1.00
SWRH3D18S-100MT	10±20%	1k, 0.3V	0.205	0.90
SWRH3D18S-150MT	15±20%	1k, 0.3V	0.301	0.75
SWRH3D18S-220MT	22±20%	1k, 0.3V	0.424	0.60
SWRH3D18S-330MT	33±20%	1k, 0.3V	0.640	0.45
SWRH3D18S-470MT	47±20%	1k, 0.3V	0.964	0.35

SWRH3D28S TYPE

型号 Part Number	电感量 Inductance	L 测试条件 L Test Condition	直流电阻 Max. DC Resistance	额定电流 Max. Rated Current
单位 Units	μH	Hz, V	Ω	A
符号 Symbol	L	-	DCR	Ir
SWRH3D28S-3R3NT	3.3±30%	100k, 0.3V	0.072	2.00
SWRH3D28S-4R7NT	4.7±30%	100k, 0.3V	0.088	1.65
SWRH3D28S-6R8NT	6.8±30%	100k, 0.3V	0.119	1.24
SWRH3D28S-8R2NT	8.2±30%	100k, 0.3V	0.132	1.15
SWRH3D28S-100MT	10±20%	1k, 0.3V	0.145	1.05
SWRH3D28S-150MT	15±20%	1k, 0.3V	0.213	0.90
SWRH3D28S-220MT	22±20%	1k, 0.3V	0.335	0.76
SWRH3D28S-330MT	33±20%	1k, 0.3V	0.481	0.58
SWRH3D28S-470MT	47±20%	1k, 0.3V	0.599	0.48

SWRH4D18S TYPE

型号 Part Number	电感量 Inductance	L 测试条件 L Test Condition	直流电阻 Max. DC Resistance	额定电流 Max. Rated Current
单位 Units	μH	Hz, V	Ω	A
符号 Symbol	L	-	DCR	Ir
SWRH4D18S-1R0NT	1.0±30%	100k, 0.3V	0.045	1.72
SWRH4D18S-2R2NT	2.2±30%	100k, 0.3V	0.075	1.32
SWRH4D18S-2R7NT	2.7±30%	100k, 0.3V	0.105	1.28
SWRH4D18S-3R3NT	3.3±30%	100k, 0.3V	0.110	1.04
SWRH4D18S-3R9NT	3.9±30%	100k, 0.3V	0.155	0.88
SWRH4D18S-4R7NT	4.7±30%	100k, 0.3V	0.162	0.84
SWRH4D18S-5R6NT	5.6±30%	100k, 0.3V	0.170	0.80
SWRH4D18S-6R8NT	6.8±30%	100k, 0.3V	0.190	0.76
SWRH4D18S-8R2NT	8.2±30%	100k, 0.3V	0.195	0.68
SWRH4D18S-100MT	10±20%	1k, 0.3V	0.200	0.61

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规格特性
Specifications

SWRH4D18S TYPE

型号 Part Number	电感量 Inductance	L 测试条件 L Test Condition	直流电阻 Max. DC Resistance	额定电流 Max. Rated Current
单位 Units	μH	Hz, V	Ω	A
符号 Symbol	L	-	DCR	Ir
SWRH4D18S-120MT	12±20%	1k, 0.3V	0.210	0.56
SWRH4D18S-150MT	15±20%	1k, 0.3V	0.240	0.50
SWRH4D18S-180MT	18±20%	1k, 0.3V	0.338	0.48
SWRH4D18S-220MT	22±20%	1k, 0.3V	0.397	0.41
SWRH4D18S-270MT	27±20%	1k, 0.3V	0.441	0.35
SWRH4D18S-330MT	33±20%	1k, 0.3V	0.694	0.32
SWRH4D18S-390MT	39±20%	1k, 0.3V	0.709	0.30
SWRH4D18S-470MT	47±20%	1k, 0.3V	0.922	0.28
SWRH4D18S-560MT	56±20%	1k, 0.3V	1.080	0.26
SWRH4D18S-680MT	68±20%	1k, 0.3V	1.300	0.24
SWRH4D18S-820MT	82±20%	1k, 0.3V	1.560	0.22
SWRH4D18S-101MT	100±20%	1k, 0.3V	1.730	0.20
SWRH4D18S-121MT	120±20%	1k, 0.3V	2.390	0.18
SWRH4D18S-151MT	150±20%	1k, 0.3V	2.670	0.15

SWRH4D28S TYPE

型号 Part Number	电感量 Inductance	L 测试条件 L Test Condition	直流电阻 Max. DC Resistance	额定电流 Max. Rated Current
单位 Units	μH	Hz, V	Ω	A
符号 Symbol	L	-	DCR	Ir
SWRH4D28S-1R0NT	1.0±30%	100k, 0.3V	0.022	2.60
SWRH4D28S-1R2NT	1.2±30%	100k, 0.3V	0.024	2.56
SWRH4D28S-2R2NT	2.2±30%	100k, 0.3V	0.031	2.04
SWRH4D28S-3R3NT	3.3±30%	100k, 0.3V	0.049	1.57
SWRH4D28S-4R7NT	4.7±30%	100k, 0.3V	0.072	1.32
SWRH4D28S-5R6NT	5.6±30%	100k, 0.3V	0.101	1.17
SWRH4D28S-6R8NT	6.8±30%	100k, 0.3V	0.108	1.12
SWRH4D28S-8R2NT	8.2±30%	100k, 0.3V	0.118	1.04
SWRH4D28S-100MT	10±20%	1k, 0.3V	0.128	1.00
SWRH4D28S-120MT	12±20%	1k, 0.3V	0.132	0.84
SWRH4D28S-150MT	15±20%	1k, 0.3V	0.149	0.76
SWRH4D28S-180MT	18±20%	1k, 0.3V	0.165	0.72
SWRH4D28S-220MT	22±20%	1k, 0.3V	0.235	0.70
SWRH4D28S-330MT	33±20%	1k, 0.3V	0.331	0.56
SWRH4D28S-390MT	39±20%	1k, 0.3V	0.384	0.50
SWRH4D28S-470MT	47±20%	1k, 0.3V	0.587	0.48
SWRH4D28S-560MT	56±20%	1k, 0.3V	0.624	0.41
SWRH4D28S-680MT	68±20%	1k, 0.3V	0.699	0.35
SWRH4D28S-820MT	82±20%	1k, 0.3V	0.915	0.32
SWRH4D28S-101MT	100±20%	1k, 0.3V	1.020	0.29
SWRH4D28S-121MT	120±20%	1k, 0.3V	1.270	0.27
SWRH4D28S-151MT	150±20%	1k, 0.3V	1.350	0.24

SWRH5D18S TYPE

型号 Part Number	电感量 Inductance	L 测试条件 L Test Condition	直流电阻 Max. DC Resistance	额定电流 Max. Rated Current
单位 Units	μH	Hz, V	Ω	A
符号 Symbol	L	-	DCR	Ir
SWRH5D18S-3R3NT	3.3±30%	100k, 0.3V	0.053	2.00
SWRH5D18S-4R7NT	4.7±30%	100k, 0.3V	0.060	1.90
SWRH5D18S-5R6NT	5.6±30%	100k, 0.3V	0.076	1.60
SWRH5D18S-6R8NT	6.8±30%	100k, 0.3V	0.105	1.40
SWRH5D18S-8R2NT	8.2±30%	100k, 0.3V	0.117	1.30
SWRH5D18S-100MT	10±20%	1k, 0.3V	0.124	1.20

规格特性
Specifications

SWRH5D18S TYPE

型号 Part Number	电感量 Inductance	L 测试条件 L Test Condition	直流电阻 Max. DC Resistance	额定电流 Max. Rated Current
单位 Units	μH	Hz, V	Ω	A
符号 Symbol	L	-	DCR	Ir
SWRH5D18S-120MT	12±20%	1k, 0.3V	0.153	1.10
SWRH5D18S-180MT	18±20%	1k, 0.3V	0.210	0.85
SWRH5D18S-220MT	22±20%	1k, 0.3V	0.290	0.80
SWRH5D18S-270MT	27±20%	1k, 0.3V	0.330	0.75
SWRH5D18S-330MT	33±20%	1k, 0.3V	0.386	0.65
SWRH5D18S-390MT	39±20%	1k, 0.3V	0.520	0.57
SWRH5D18S-470MT	47±20%	1k, 0.3V	0.595	0.54
SWRH5D18S-560MT	56±20%	1k, 0.3V	0.665	0.50
SWRH5D18S-680MT	68±20%	1k, 0.3V	0.840	0.43
SWRH5D18S-820MT	82±20%	1k, 0.3V	0.978	0.41
SWRH5D18S-101MT	100±20%	1k, 0.3V	1.200	0.36
SWRH5D18S-121MT	120±20%	1k, 0.3V	1.500	0.33
SWRH5D18S-151MT	150±20%	1k, 0.3V	1.710	0.31

SWRH5D28S TYPE

型号 Part Number	电感量 Inductance	L 测试条件 L Test Condition	直流电阻 Max. DC Resistance	额定电流 Max. Rated Current
单位 Units	μH	Hz, V	Ω	A
符号 Symbol	L	-	DCR	Ir
SWRH5D28S-1R0NT	1.0±30%	100k, 0.3V	0.015	3.50
SWRH5D28S-1R5NT	1.5±30%	100k, 0.3V	0.022	2.80
SWRH5D28S-2R2NT	2.2±30%	100k, 0.3V	0.017	2.60
SWRH5D28S-3R3NT	3.3±30%	100k, 0.3V	0.029	2.40
SWRH5D28S-4R7NT	4.7±30%	100k, 0.3V	0.039	2.10
SWRH5D28S-6R8NT	6.8±30%	100k, 0.3V	0.048	1.85
SWRH5D28S-8R2NT	8.2±30%	100k, 0.3V	0.057	1.58
SWRH5D28S-100MT	10±20%	1k, 0.3V	0.065	1.30
SWRH5D28S-120MT	12±20%	1k, 0.3V	0.076	1.20
SWRH5D28S-180MT	18±20%	1k, 0.3V	0.110	1.00
SWRH5D28S-220MT	22±20%	1k, 0.3V	0.122	0.90
SWRH5D28S-330MT	33±20%	1k, 0.3V	0.189	0.75
SWRH5D28S-470MT	47±20%	1k, 0.3V	0.250	0.62
SWRH5D28S-560MT	56±20%	1k, 0.3V	0.305	0.58
SWRH5D28S-680MT	68±20%	1k, 0.3V	0.355	0.52
SWRH5D28S-820MT	82±20%	1k, 0.3V	0.463	0.46
SWRH5D28S-101MT	100±20%	1k, 0.3V	0.520	0.42
SWRH5D28S-121MT	120±20%	1k, 0.3V	0.560	0.40
SWRH5D28S-151MT	150±20%	1k, 0.3V	0.680	0.35
SWRH5D28S-181MT	180±20%	1k, 0.3V	0.930	0.32
SWRH5D28S-221MT	220±20%	1k, 0.3V	1.150	0.30
SWRH5D28S-271MT	270±20%	1k, 0.3V	1.560	0.27
SWRH5D28S-331MT	330±20%	1k, 0.3V	1.980	0.25

SWRH6D28S TYPE

型号 Part Number	电感量 Inductance	L 测试条件 L Test Condition	直流电阻 Max. DC Resistance	额定电流 Max. Rated Current
单位 Units	μH	Hz, V	Ω	A
符号 Symbol	L	-	DCR	Ir
SWRH6D28S-3R3NT	3.3±30%	100k, 0.3V	0.026	2.80
SWRH6D28S-4R7NT	4.7±30%	100k, 0.3V	0.031	2.40
SWRH6D28S-6R8NT	6.8±30%	100k, 0.3V	0.042	2.20
SWRH6D28S-8R2NT	8.2±30%	100k, 0.3V	0.055	1.95
SWRH6D28S-100MT	10±20%	1k, 0.3V	0.065	1.70
SWRH6D28S-150MT	15±20%	1k, 0.3V	0.084	1.40

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规格特性
Specifications

SWRH6D28S TYPE

型号 Part Number	电感量 Inductance	L 测试条件 L Test Condition	直流电阻 Max. DC Resistance	额定电流 Max. Rated Current
单位 Units	μH	Hz, V	Ω	A
符号 Symbol	L	-	DCR	Ir
SWRH6D28S-180MT	18±20%	1k, 0.3V	0.095	1.32
SWRH6D28S-220MT	22±20%	1k, 0.3V	0.128	1.20
SWRH6D28S-330MT	33±20%	1k, 0.3V	0.165	0.97
SWRH6D28S-470MT	47±20%	1k, 0.3V	0.238	0.80
SWRH6D28S-560MT	56±20%	1k, 0.3V	0.277	0.73
SWRH6D28S-680MT	68±20%	1k, 0.3V	0.304	0.65
SWRH6D28S-820MT	82±20%	1k, 0.3V	0.390	0.60
SWRH6D28S-101MT	100±20%	1k, 0.3V	0.535	0.54
SWRH6D28S-121MT	120±20%	1k, 0.3V	0.750	0.51
SWRH6D28S-151MT	150±20%	1k, 0.3V	0.950	0.47
SWRH6D28S-181MT	180±20%	1k, 0.3V	1.200	0.41
SWRH6D28S-221MT	220±20%	1k, 0.3V	1.500	0.37
SWRH6D28S-271MT	270±20%	1k, 0.3V	1.700	0.33
SWRH6D28S-331MT	330±20%	1k, 0.3V	2.150	0.28
SWRH6D28S-391MT	390±20%	1k, 0.3V	2.750	0.23
SWRH6D28S-471MT	470±20%	1k, 0.3V	3.000	0.21
SWRH6D28S-681MT	680±20%	1k, 0.3V	5.150	0.20
SWRH6D28S-102MT	1000±20%	1k, 0.3V	8.970	0.14

SWRH6D38S TYPE

型号 Part Number	电感量 Inductance	L 测试条件 L Test Condition	直流电阻 Max. DC Resistance	额定电流 Max. Rated Current
单位 Units	μH	Hz, V	Ω	A
符号 Symbol	L	-	DCR	Ir
SWRH6D38S-1R5NT	1.5±30%	100k, 0.3V	0.015	5.20
SWRH6D38S-2R2NT	2.2±30%	100k, 0.3V	0.018	4.50
SWRH6D38S-3R3NT	3.3±30%	100k, 0.3V	0.020	3.50
SWRH6D38S-4R7NT	4.7±30%	100k, 0.3V	0.025	2.80
SWRH6D38S-6R8NT	6.8±30%	100k, 0.3V	0.029	2.40
SWRH6D38S-8R2NT	8.2±30%	100k, 0.3V	0.034	2.20
SWRH6D38S-100MT	10±20%	1k, 0.3V	0.038	2.00
SWRH6D38S-120MT	12±20%	1k, 0.3V	0.053	1.70
SWRH6D38S-150MT	15±20%	1k, 0.3V	0.057	1.60
SWRH6D38S-180MT	18±20%	1k, 0.3V	0.092	1.50
SWRH6D38S-220MT	22±20%	1k, 0.3V	0.096	1.30
SWRH6D38S-270MT	27±20%	1k, 0.3V	0.109	1.20
SWRH6D38S-330MT	33±20%	1k, 0.3V	0.124	1.10
SWRH6D38S-390MT	39±20%	1k, 0.3V	0.138	1.00
SWRH6D38S-470MT	47±20%	1k, 0.3V	0.155	0.95
SWRH6D38S-560MT	56±20%	1k, 0.3V	0.202	0.85
SWRH6D38S-680MT	68±20%	1k, 0.3V	0.234	0.75
SWRH6D38S-820MT	82±20%	1k, 0.3V	0.324	0.70
SWRH6D38S-101MT	100±20%	1k, 0.3V	0.358	0.65
SWRH6D38S-121MT	120±20%	1k, 0.3V	0.470	0.59
SWRH6D38S-151MT	150±20%	1k, 0.3V	0.580	0.54
SWRH6D38S-181MT	180±20%	1k, 0.3V	0.690	0.49
SWRH6D38S-221MT	220±20%	1k, 0.3V	0.890	0.43
SWRH6D38S-271MT	270±20%	1k, 0.3V	1.290	0.40
SWRH6D38S-331MT	330±20%	1k, 0.3V	1.700	0.37
SWRH6D38S-391MT	390±20%	1k, 0.3V	1.750	0.34
SWRH6D38S-471MT	470±20%	1k, 0.3V	2.200	0.32
SWRH6D38S-561MT	560±20%	1k, 0.3V	2.850	0.29
SWRH6D38S-821MT	820±20%	1k, 0.3V	4.050	0.22
SWRH6D38S-102MT	1000±20%	1k, 0.3V	5.700	0.20