Power Inductor

FEATURES

- Excellent high saturation resistance
- Magnetic shield structure
- Low DC resistance, high current resistance

APPLICATIONS

- It can be used as energy storage inductance and filter inductance in various DC-DC converters and chargers

PRODUCT IDENTIFICATION

SKSMRH 125 — R47 N

① ② ③ ④

①

Product Code	
SKSMRH	Power Inductor

②

External Dimensions (L×H) [mm]	
125	1.2×0.5

③

Nominal Inductance	
Example	Nominal Value
2R2	2.2μH
R47	0.47μH
100	10μH

④

Inductance Tolerance	
M	±20%
N	±30%

SHAPE AND DIMENSIONS

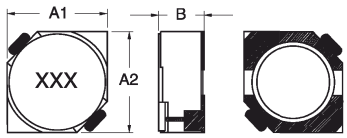


Figure 1

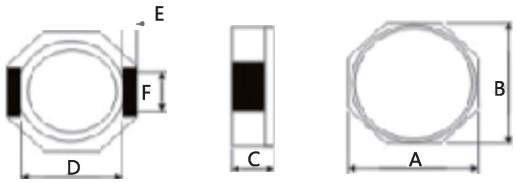
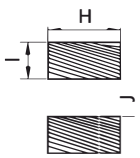


Figure 2

Units: mm

Type Specification	Product Size			Recommended pad size			External drawing
	A1 Max	A2 Max	B Max	H	I	J	
SKSMRH2D18	3.3	3.3	2.1	3.5	1.35	0.8	Figure 1
SKSMRH3D18	4.0	4.0	2.1	4.5	1.5	1.2	
SKSMRH3D28	4.0	4.0	3.1	4.5	1.5	1.5	
SKSMRH4D18	5.0	5.0	2.1	5.3	1.9	1.5	
SKSMRH4D28	5.0	5.0	3.1	5.3	1.9	1.5	
SKSMRH5D18	6.0	6.0	2.1	6.3	2.2	2.0	
SKSMRH5D28	6.0	6.0	3.1	6.3	2.2	2.0	
SKSMRH6D28	7.0	7.0	3.1	7.3	2.7	2.0	
SKSMRH6D38	7.0	7.0	4.1	7.3	2.7	2.0	

RECOMMENDED PAD SIZE



Bonding Pad

Units: mm

Type Specification	Product Size						Recommended pad size			External drawing
	A Max	B Max	C Max	D	E	F	H	I	J	
SKSMRH8D28	9.5	8.3	3.0	6.3	4.0	2.5	5.0	2.0	6.1	Figure 2
SKSMRH8D38	9.5	8.3	4.0	6.3	4.0	2.5	5.0	2.0	6.1	
SKSMRH8D43	9.5	8.3	4.5	6.3	4.0	2.5	5.0	2.0	6.1	

SPECIFICATIONS

SKSMR3D18 TYPE

Part Number	Inductance	Inductance Tolerance	L Test Freq.	Max. DC Resistance	Rated Current
Units	μH	-	KHz/V	Ω	mA
Symbol	L	-	Freq	DCR	Ir
SKSMRH3D18-1R2	1.2	M、N	100/0.25	0.047	1370
SKSMRH3D18-1R8	1.8	M、N	100/0.25	0.056	1050
SKSMRH3D18-2R2	2.2	M、N	100/0.25	0.063	950
SKSMRH3D18-3R3	3.3	M、N	100/0.25	0.100	800
SKSMRH3D18-4R7	4.7	M、N	100/0.25	0.108	680
SKSMRH3D18-5R6	5.6	M、N	100/0.25	0.134	620
SKSMRH3D18-6R8	6.8	M、N	100/0.25	0.150	580
SKSMRH3D18-8R2	8.2	M、N	100/0.25	0.170	510
SKSMRH3D18-100	10	M、N	100/0.25	0.205	460
SKSMRH3D18-120	12	M、N	100/0.25	0.275	420
SKSMRH3D18-150	15	M、N	100/0.25	0.302	380
SKSMRH3D18-180	18	M、N	100/0.25	0.400	340
SKSMRH3D18-220	22	M、N	100/0.25	0.424	310
SKSMRH3D18-270	27	M、N	100/0.25	0.540	280
SKSMRH3D18-330	33	M、N	100/0.25	0.680	260
SKSMRH3D18-390	39	M、N	100/0.25	0.760	240
SKSMRH3D18-470	47	M、N	100/0.25	0.960	210
SKSMRH3D18-560	56	M、N	100/0.25	1.30	190
SKSMRH3D18-680	68	M、N	100/0.25	1.70	170
SKSMRH3D18-820	82	M、N	100/0.25	2.20	150

SKSMR3D28 TYPE

Part Number	Inductance	Inductance Tolerance	L Test Freq.	Max. DC Resistance	Rated Current
Units	μH	-	KHz/V	Ω	mA
Symbol	L	-	Freq	DCR	Ir
SKSMRH3D28-1R0	1	M、N	100/0.25	0.038	2300
SKSMRH3D28-1R2	1.2	M、N	100/0.25	0.045	2200
SKSMRH3D28-1R8	1.8	M、N	100/0.25	0.058	2200
SKSMRH3D28-2R2	2.2	M、N	100/0.25	0.062	2100
SKSMRH3D28-2R5	2.5	M、N	100/0,25	0.070	2000
SKSMRH3D28-2R7	2.7	M、N	100/0.25	0.070	1950
SKSMRH3D28-3R3	3.3	M、N	100/0.25	0.072	1800
SKSMRH3D28-3R9	3.9	M、N	100/0.25	0.082	1600
SKSMRH3D28-4R7	4.7	M、N	100/0.25	0.088	1500
SKSMRH3D28-5R6	5.6	M、N	100/0.25	0.110	1350
SKSMRH3D28-6R8	6.8	M、N	100/0,25	0.119	1200
SKSMRH3D28-8R2	8.2	M、N	100/0.25	0.130	1100
SKSMRH3D28-100	10	M、N	100/0.25	0.145	1050
SKSMRH3D28-120	12	M、N	100/0.25	0.175	900
SKSMRH3D28-150	15	M、N	100/0.25	0.213	850
SKSMRH3D28-180	18	M、N	100/0.25	0.250	750
SKSMRH3D28-220	22	M、N	100/0.25	0.335	680
SKSMRH3D28-270	27	M、N	100/0.25	0.420	620
SKSMRH3D28-330	33	M、N	100/0.25	0.481	560
SKSMRH3D28-390	39	M、N	100/0.25	0.750	510
SKSMRH3D28-470	47	M、N	100/0.25	0.900	481
SKSMRH3D28-560	56	M、N	100/0.25	1.20	430
SKSMRH3D28-680	68	M、N	100/0.25	1.40	400
SKSMRH3D28-820	82	M、N	100/0.25	1.80	360
SKSMRH3D28-101	100	M、N	100/0.25	2.00	330
SKSMRH3D28-121	120	M、N	100/0,25	2.20	300
SKSMRH3D28-151	150	M、N	100/0.25	3.20	270
SKSMRH3D28-181	180	M、N	100/0.25	3.50	250
SKSMRH3D28-221	220	M、N	100/0.25	4.00	220
SKSMRH3D28-271	270	M、N	100/0,25	5.60	200

SKSMR4D18 TYPE

Part Number	Inductance	Inductance Tolerance	L Test Freq.	Max. DC Resistance	Rated Current
Units	μH	-	KHz/V	Ω	mA
Symbol	L	-	Freq	DCR	Ir
SKSMRH4D18-1R0	1.0	M、N	100/0.25	0.030	2300
SKSMRH4D18-1R2	1.2	M、N	100/0.25	0.035	2000
SKSMRH4D18-1R8	1.8	M、N	100/0.25	0.037	1960
SKSMRH4D18-2R2	2.2	M、N	100/0.25	0.040	1900
SKSMRH4D18-2R5	2.5	M、N	100/0.25	0.044	1840
SKSMRH4D18-2R7	2.7	M、N	100/0.25	0.062	1770
SKSMRH4D18-3R3	3.3	M、N	100/0.25	0.070	1650
SKSMRH4D18-3R9	3.9	M、N	100/0.25	0.095	1450
SKSMRH4D18-4R7	4.7	M、N	100/0.25	0.100	1400
SKSMRH4D18-5R6	5.6	M、N	100/0.25	0.150	1200
SKSMRH4D18-6R8	6.8	M、N	100/0.25	0.153	980
SKSMRH4D18-8R2	8.2	M、N	100/0.25	0.165	940
SKSMRH4D18-100	10	M、N	100/0.25	0.180	820
SKSMRH4D18-120	12	M、N	100/0.25	0.240	760
SKSMRH4D18-150	15	M、N	100/0.25	0.300	730
SKSMRH4D18-180	18	M、N	100/0.25	0.340	680
SKSMRH4D18-220	22	M、N	100/0.25	0.400	630
SKSMRH4D18-270	27	M、N	100/0.25	0.440	560
SKSMRH4D18-330	33	M、N	100/0.25	0.695	520
SKSMRH4D18-390	39	M、N	100/0.25	0.700	480
SKSMRH4D18-470	47	M、N	100/0.25	0.920	420
SKSMRH4D18-560	56	M、N	100/0.25	1.08	370
SKSMRH4D18-680	68	M、N	100/0,25	1.30	320
SKSMRH4D18-820	82	M、N	100/0.25	1.55	300
SKSMRH4D18-101	100	M、N	100/0.25	1.75	270
SKSMRH4D18-121	120	M、N	100/0.25	2.00	250
SKSMRH4D18-151	150	M、N	100/0.25	2.80	200
SKSMRH4D18-181	180	M、N	100/0.25	3.10	180

SKSMR4D28 TYPE

Part Number	Inductance	Inductance Tolerance	L Test Freq.	Max. DC Resistance	Rated Current
Units	μH	-	KHz/V	Ω	mA
Symbol	L	-	Freq	DCR	Ir
SKSMRH4D28-1R2	1.2	M、N	100/0.25	0.015	2500
SKSMRH4D28-1R8	1.8	M、N	100/0.25	0.017	2200
SKSMRH4D28-2R2	2.2	M、N	100/0.25	0.020	2000
SKSMRH4D28-2R7	2.7	M、N	100/0.25	0.025	1600
SKSMRH4D28-3R3	3.3	M、N	100/0.25	0.030	1500
SKSMRH4D28-3R9	3.9	M、N	100/0.25	0.035	1400
SKSMRH4D28-4R7	4.7	M、N	100/0.25	0.040	1300
SKSMRH4D28-5R6	5.6	M、N	100/0.25	0.047	1200
SKSMRH4D28-6R8	6.8	M、N	100/0.25	0.050	1100
SKSMRH4D28-8R2	8.2	M、N	100/0.25	0.060	1000
SKSMRH4D28-100	10	M、N	100/0.25	0.070	900
SKSMRH4D28-120	12	M、N	100/0.25	0.080	800
SKSMRH4D28-150	15	M、N	100/0.25	0.090	750
SKSMRH4D28-180	18	M、N	100/0.25	0.120	700
SKSMRH4D28-220	22	M、N	100/0.25	0.140	650
SKSMRH4D28-270	27	M、N	100/0.25	0.190	600
SKSMRH4D28-330	33	M、N	100/0.25	0.220	500
SKSMRH4D28-390	39	M、N	100/0.25	0.250	500
SKSMRH4D28-470	47	M、N	100/0.25	0.270	450
SKSMRH4D28-560	56	M、N	100/0.25	0.330	400
SKSMRH4D28-680	68	M、N	100/0.25	0.370	350
SKSMRH4D28-820	82	M、N	100/0.25	0.450	300
SKSMRH4D28-101	100	M、N	100/0.25	0.520	280
SKSMRH4D28-121	120	M、N	100/0.25	0.810	260
SKSMRH4D28-151	150	M、N	100/0.25	1.100	230
SKSMRH4D28-181	180	M、N	100/0.25	1.200	210

SKSMR5D18 TYPE

Part Number	Inductance	Inductance Tolerance	L Test Freq.	Max. DC Resistance	Rated Current
Units	μH	-	KHz/V	Ω	mA
Symbol	L	-	Freq	DCR	Ir
SKSMRH5D18-4R1	4.1	M、N	100/0.25	0.075	2000
SKSMRH5D18-5R4	5.4	M、N	100/0.25	0.085	1600
SKSMRH5D18-6R2	6.2	M、N	100/0.25	0.096	1400
SKSMRH5D18-8R9	8.9	M、N	100/0.25	0.130	1250
SKSMRH5D18-100	10	M、N	100/0.25	0.140	1200
SKSMRH5D18-120	12	M、N	100/0.25	0.180	1100
SKSMRH5D18-150	15	M、N	100/0.25	0.221	970
SKSMRH5D18-180	18	M、N	100/0.25	0.250	850
SKSMRH5D18-220	22	M、N	100/0.25	0.290	800
SKSMRH5D18-270	27	M、N	100/0.25	0.330	750
SKSMRH5D18-330	33	M、N	100/0.25	0.386	650
SKSMRH5D18-390	39	M、N	100/0.25	0.520	570
SKSMRH5D18-470	47	M、N	100/0.25	0.654	540
SKSMRH5D18-560	56	M、N	100/0.25	0.750	500
SKSMRH5D18-680	68	M、N	100/0.25	0.845	430
SKSMRH5D18-820	82	M、N	100/0.25	1.090	410
SKSMRH5D18-101	100	M、N	100/0.25	1.350	260

SKSMR5D28 TYPE

Part Number	Inductance	Inductance Tolerance	L Test Freq.	Max. DC Resistance	Rated Current
Units	μH	-	KHz/V	Ω	mA
Symbol	L	-	Freq	DCR	Ir
SKSMRH5D28-2R6	2.6	M、N	100/0.25	0.025	2500
SKSMRH5D28-3R0	3.0	M、N	100/0.25	0.030	2400
SKSMRH5D28-4R2	4.2	M、N	100/0.25	0.040	2200
SKSMRH5D28-5R3	5.3	M、N	100/0.25	0.045	1800
SKSMRH5D28-6R2	6.2	M、N	100/0.25	0.055	1700
SKSMRH5D28-8R2	8.2	M、N	100/0.25	0.065	1500
SKSMRH5D28-100	10	M、N	100/0.25	0.075	1300
SKSMRH5D28-120	12	M、N	100/0.25	0.085	1200
SKSMRH5D28-150	15	M、N	100/0.25	0.120	1100
SKSMRH5D28-180	18	M、N	100/0.25	0.140	1000
SKSMRH5D28-220	22	M、N	100/0.25	0.180	900
SKSMRH5D28-270	27	M、N	100/0.25	0.200	800
SKSMRH5D28-330	33	M、N	100/0.25	0.210	700
SKSMRH5D28-390	39	M、N	100/0.25	0.250	600
SKSMRH5D28-470	47	M、N	100/0.25	0.280	550
SKSMRH5D28-560	56	M、N	100/0.25	0.320	500
SKSMRH5D28-680	68	M、N	100/0.25	0.380	450
SKSMRH5D28-820	82	M、N	100/0.25	0.500	400
SKSMRH5D28-101	100	M、N	100/0.25	0.600	350

SKSMR6D28 TYPE

Part Number	Inductance	Inductance Tolerance	L Test Freq.	Max. DC Resistance	Rated Current
Units	μH	-	KHz/V	Ω	mA
Symbol	L	-	Freq	DCR	Ir
SKSMRH6D28-3R0	3	M、N	100/0.25	0.023	3000
SKSMRH6D28-3R9	3.9	M、N	100/0.25	0.027	2600
SKSMRH6D28-5R0	5	M、N	100/0.25	0.031	2400
SKSMRH6D28-6R0	6	M、N	100/0.25	0.035	2250
SKSMRH6D28-6R8	6.8	M、N	100/0.25	0.046	2000
SKSMRH6D28-7R3	7.3	M、N	100/0.25	0.056	1900
SKSMRH6D28-8R6	8.6	M、N	100/0.25	0.058	1850
SKSMRH6D28-100	10	M、N	100/0.25	0.065	1700
SKSMRH6D28-120	12	M、N	100/0.25	0.070	1550
SKSMRH6D28-150	15	M、N	100/0.25	0.084	1400
SKSMRH6D28-180	18	M、N	100/0.25	0.095	1320
SKSMRH6D28-220	22	M、N	100/0.25	0.128	1200
SKSMRH6D28-270	27	M、N	100/0.25	0.142	1050
SKSMRH6D28-330	33	M、N	100/0.25	0.165	970
SKSMRH6D28-390	39	M、N	100/0.25	0.210	860
SKSMRH6D28-470	47	M、N	100/0.25	0.238	800
SKSMRH6D28-560	56	M、N	100/0.25	0.277	730
SKSMRH6D28-680	68	M、N	100/0.25	0.304	650
SKSMRH6D28-820	82	M、N	100/0.25	0.390	600

SKSMR6D38 TYPE

Part Number	Inductance	Inductance Tolerance	L Test Freq.	Max. DC Resistance	Rated Current
Units	μH	-	KHz/V	Ω	mA
Symbol	L	-	Freq	DCR	Ir
SKSMRH6D38-3R3	3.3	M、N	100/0.25	0.020	3500
SKSMRH6D38-5R0	5.0	M、N	100/0.25	0.024	2900
SKSMRH6D38-6R0	6.0	M、N	100/0.25	0.028	2500
SKSMRH6D38-7R3	7.3	M、N	100/0.25	0.032	2300
SKSMRH6D38-8R6	8.6	M、N	100/0.25	0.035	2200
SKSMRH6D38-100	10	M、N	100/0.25	0.038	2000
SKSMRH6D38-120	12	M、N	100/0.25	0.053	1700
SKSMRH6D38-150	15	M、N	100/0.25	0.057	1600
SKSMRH6D38-180	18	M、N	100/0.25	0.092	1500
SKSMRH6D38-220	22	M、N	100/0.25	0.096	1300
SKSMRH6D38-270	27	M、N	100/0.25	0.109	1200
SKSMRH6D38-330	33	M、N	100/0.25	0.124	1100
SKSMRH6D38-390	39	M、N	100/0.25	0.138	1000
SKSMRH6D38-470	47	M、N	100/0.25	0.155	950
SKSMRH6D38-560	56	M、N	100/0.25	0.202	850
SKSMRH6D38-680	68	M、N	100/0.25	0.234	750
SKSMRH6D38-820	82	M、N	100/0.25	0.310	700
SKSMRH6D38-101	100	M、N	100/0.25	0.350	650

SKSMR8D28 TYPE

Part Number	Inductance	Inductance Tolerance	L Test Freq.	Max. DC Resistance	Rated Current
Units	μH	-	KHz/V	Ω	mA
Symbol	L	-	Freq	DCR	Ir
SKSMRH8D28-2R2	2.2	M、N	100/0.25	0.012	5000
SKSMRH8D28-2R7	2.7	M、N	100/0.25	0.017	4500
SKSMRH8D28-3R9	3.9	M、N	100/0.25	0.02	4000
SKSMRH8D28-4R7	4.7	M、N	100/0.25	0.025	3400
SKSMRH8D28-5R6	5.6	M、N	100/0.25	0.028	3200
SKSMRH8D28-6R8	6.8	M、N	100/0.25	0.032	3000
SKSMRH8D28-8R2	8.2	M、N	100/0.25	0.042	2800
SKSMRH8D28-100	10	M、N	100/0.25	0.047	2500
SKSMRH8D28-150	15	M、N	100/0.25	0.069	1900
SKSMRH8D28-220	22	M、N	100/0.25	0.099	1600
SKSMRH8D28-330	33	M、N	100/0.25	0.156	1300
SKSMRH8D28-470	47	M、N	100/0.25	0.195	1150
SKSMRH8D28-680	68	M、N	100/0.25	0.286	920
SKSMRH8D28-101	100	M、N	100/0.25	0.430	750

SKSMR8D38 TYPE

Part Number	Inductance	Inductance Tolerance	L Test Freq.	Max. DC Resistance	Rated Current
Units	μH	-	KHz/V	Ω	mA
Symbol	L	-	Freq	DCR	Ir
SKSMRH8D38-2R2	2.2	M、N	100/0.25	0.020	5500
SKSMRH8D38-3R3	3.3	M、N	100/0.25	0.025	4400
SKSMRH8D38-4R7	4.7	M、N	100/0.25	0.027	4000
SKSMRH8D38-5R6	5.6	M、N	100/0.25	0.030	3800
SKSMRH8D38-6R8	6.8	M、N	100/0.25	0.038	3500
SKSMRH8D38-8R2	8.2	M、N	100/0.25	0.041	3000
SKSMRH8D38-100	10	M、N	100/0.25	0.048	2600
SKSMRH8D38-150	15	M、N	100/0.25	0.067	2300
SKSMRH8D38-220	22	M、N	100/0.25	0.105	1880
SKSMRH8D38-330	33	M、N	100/0.25	0.157	1520
SKSMRH8D38-470	47	M、N	100/0.25	0.189	1280
SKSMRH8D38-560	56	M、N	100/0.25	0.279	1200
SKSMRH8D38-680	68	M、N	100/0.25	0.290	1100
SKSMRH8D38-820	82	M、N	100/0.25	0.349	950
SKSMRH8D38-101	100	M、N	100/0.25	0.410	880

SKSMR8D43 TYPE

Part Number	Inductance	Inductance Tolerance	L Test Freq.	Max. DC Resistance	Rated Current
Units	μH	-	KHz/V	Ω	mA
Symbol	L	-	Freq	DCR	Ir
SKSMRH8D43-2R7	2.7	M、N	100/0.25	0.017	7300
SKSMRH8D43-3R3	3.3	M、N	100/0.25	0.020	6200
SKSMRH8D43-4R7	4.7	M、N	100/0.25	0.022	5370
SKSMRH8D43-5R6	5.6	M、N	100/0.25	0.023	4740
SKSMRH8D43-6R8	6.8	M、N	100/0.25	0.025	4240
SKSMRH8D43-8R2	8.2	M、N	100/0.25	0.032	3840
SKSMRH8D43-100	10	M、N	100/0.25	0.036	3500
SKSMRH8D43-120	12	M、N	100/0.25	0.050	3220
SKSMRH8D43-150	15	M、N	100/0.25	0.053	2990
SKSMRH8D43-180	18	M、N	100/0.25	0.060	2600
SKSMRH8D43-220	22	M、N	100/0.25	0.075	2440
SKSMRH8D43-270	27	M、N	100/0.25	0.093	2180
SKSMRH8D43-330	33	M、N	100/0.25	0.125	1970
SKSMRH8D43-390	39	M、N	100/0.25	0.140	1790
SKSMRH8D43-470	47	M、N	100/0.25	0.150	1650
SKSMRH8D43-560	56	M、N	100/0.25	0.210	1520
SKSMRH8D43-680	68	M、N	100/0.25	0.240	1370
SKSMRH8D43-820	82	M、N	100/0.25	0.260	1240
SKSMRH8D43-101	100	M、N	100/0.25	0.360	1140