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 — 100 M

Product Code

Dimension ：**L(L=W) × H** (mm)

Inductance Deviation
M：±20%
N：±30%

Inductance Value
47N：0.047μH
R47：0.47μH
4R7：4.7μH
470：47μH
471：470μH

SHAPE AND DIMENSIONS

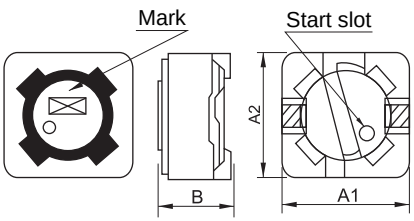


Fig.1

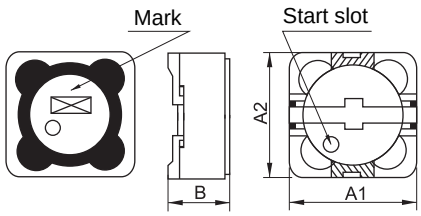


Fig.2

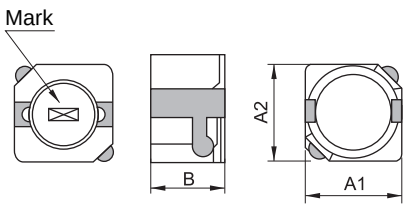
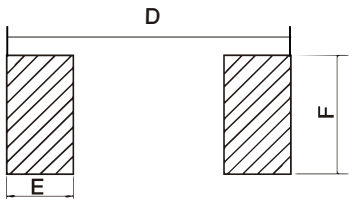


Fig.3

Units: mm

Type Specification	Product Size			Shape
	A1	A2	Bmax	
SKSMRH73	7.3±0.3	7.3±0.3	3.8	Fig.1
SKSMRH74	7.3±0.3	7.3±0.3	4.5	Fig.1
SKSMRH124	12.5±0.3	12.5±0.3	5.0	Fig.2
SKSMRH125	12.5±0.3	12.5±0.3	6.2	Fig.2
SKSMRH127	12.5±0.3	12.5±0.3	8.0	Fig.2
SKSMRH129	12.5±0.3	12.5±0.3	10.5	Fig.2
SKSMRH103R	10.0±0.3	10.0±0.3	3.0	Fig.3
SKSMRH104R	10.0±0.3	10.0±0.3	4.0	Fig.3
SKSMRH105R	10.0±0.3	10.0±0.3	5.0	Fig.3

RECOMMENDED PAD SIZE



Units: mm

Type Specification	Recommended Pad Size		
	D	E	F
SKSMRH73 SKSMRH74	8.0	1.8	2.6
SKSMRH124 SKSMRH125 SKSMRH127	13.0	2.4	5.6
SKSMRH103R SKSMRH104R SKSMRH105R	11.0	1.8	3.6

SPECIFICATIONS

SKSMRH73 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
SKSMRH73-100	10	M、N	1/0.25	0.072	1680
SKSMRH73-120	12	M、N	1/0.25	0.098	1520
SKSMRH73-150	15	M、N	1/0.25	0.13	1330
SKSMRH73-180	18	M、N	1/0.25	0.14	1200
SKSMRH73-220	22	M、N	1/0.25	0.19	1070
SKSMRH73-270	27	M、N	1/0.25	0.21	960
SKSMRH73-330	33	M、N	1/0.25	0.24	910
SKSMRH73-390	39	M、N	1/0.25	0.32	770
SKSMRH73-470	47	M、N	1/0.25	0.36	760
SKSMRH73-560	56	M、N	1/0.25	0.47	680
SKSMRH73-680	68	M、N	1/0.25	0.52	610
SKSMRH73-820	82	M、N	1/0.25	0.69	570
SKSMRH73-101	100	M、N	1/0.25	0.79	500
SKSMRH73-121	120	M、N	1/0.25	0.89	490
SKSMRH73-151	150	M、N	1/0.25	1.27	430
SKSMRH73-181	180	M、N	1/0.25	1.45	390
SKSMRH73-221	220	M、N	1/0.25	1.65	350
SKSMRH73-271	270	M、N	1/0.25	2.31	320
SKSMRH73-331	330	M、N	1/0.25	2.62	280
SKSMRH73-391	390	M、N	1/0.25	2.94	260
SKSMRH73-471	470	M、N	1/0.25	4.18	240
SKSMRH73-561	560	M、N	1/0.25	4.67	220
SKSMRH73-681	680	M、N	1/0.25	5.73	190
SKSMRH73-821	820	M、N	1/0.25	6.54	180
SKSMRH73-102	1000	M、N	1/0.25	9.44	160

SKSMRH74 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
SKSMRH74-100	10	M、N	1/0.25	0.075	1840
SKSMRH74-120	12	M、N	1/0.25	0.100	1710
SKSMRH74-150	15	M、N	1/0.25	0.105	1470
SKSMRH74-180	18	M、N	1/0.25	0.120	1310
SKSMRH74-220	22	M、N	1/0.25	0.150	1230
SKSMRH74-270	27	M、N	1/0.25	0.180	1120
SKSMRH74-330	33	M、N	1/0.25	0.200	960
SKSMRH74-390	39	M、N	1/0.25	0.230	910
SKSMRH74-470	47	M、N	1/0.25	0.300	880
SKSMRH74-560	56	M、N	1/0.25	0.350	750
SKSMRH74-680	68	M、N	1/0.25	0.380	690
SKSMRH74-820	82	M、N	1/0.25	0.500	610
SKSMRH74-101	100	M、N	1/0.25	0.610	600
SKSMRH74-121	120	M、N	1/0.25	0.660	520
SKSMRH74-151	150	M、N	1/0.25	0.880	460
SKSMRH74-181	180	M、N	1/0.25	1.10	420
SKSMRH74-221	220	M、N	1/0.25	1.45	360
SKSMRH74-271	270	M、N	1/0.25	1.80	340
SKSMRH74-331	330	M、N	1/0.25	1.86	320
SKSMRH74-391	390	M、N	1/0.25	2.85	290
SKSMRH74-471	470	M、N	1/0.25	3.01	260
SKSMRH74-561	560	M、N	1/0.25	3.62	230
SKSMRH74-681	680	M、N	1/0.25	4.63	220
SKSMRH74-821	820	M、N	1/0.25	5.20	200
SKSMRH74-102	1000	M、N	1/0.25	6.00	180

SKSMRH124 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
SKSMRH124-1R0	1.0	M、N	1/0.25	0.008	10000
SKSMRH124-1R5	1.5	M、N	1/0.25	0.010	9800
SKSMRH124-2R7	2.7	M、N	1/0.25	0.012	8400
SKSMRH124-3R9	3.9	M、N	1/0.25	0.015	7500
SKSMRH124-4R7	4.7	M、N	1/0.25	0.018	7000
SKSMRH124-6R8	6.8	M、N	1/0.25	0.023	4900
SKSMRH124-8R2	8.2	M、N	1/0.25	0.026	4000
SKSMRH124-100	10	M、N	1/0.25	0.035	3500
SKSMRH124-120	12	M、N	1/0.25	0.038	3300
SKSMRH124-150	15	M、N	1/0.25	0.050	3200
SKSMRH124-180	18	M、N	1/0.25	0.057	3100
SKSMRH124-220	22	M、N	1/0.25	0.066	2900
SKSMRH124-270	27	M、N	1/0.25	0.080	2800
SKSMRH124-330	33	M、N	1/0.25	0.097	2500
SKSMRH124-390	39	M、N	1/0.25	0.132	2100
SKSMRH124-470	47	M、N	1/0.25	0.160	1900
SKSMRH124-560	56	M、N	1/0.25	0.190	1800
SKSMRH124-680	68	M、N	1/0.25	0.220	1500
SKSMRH124-820	82	M、N	1/0.25	0.260	1300
SKSMRH124-101	100	M、N	1/0.25	0.308	1200
SKSMRH124-121	120	M、N	1/0.25	0.380	1100
SKSMRH124-151	150	M、N	1/0.25	0.530	950
SKSMRH124-181	180	M、N	1/0.25	0.620	850
SKSMRH124-221	220	M、N	1/0.25	0.700	800
SKSMRH124-271	270	M、N	1/0.25	0.850	600
SKSMRH124-331	330	M、N	1/0.25	0.960	500
SKSMRH124-391	390	M、N	1/0.25	1.15	480
SKSMRH124-471	470	M、N	1/0.25	1.45	450
SKSMRH124-561	560	M、N	1/0.25	1.65	430
SKSMRH124-681	680	M、N	1/0.25	2.10	410
SKSMRH124-821	820	M、N	1/0.25	2.65	400

SKSMRH125 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
SKSMRH125-1R0	1.0	M、N	1/0.25	0.005	15000
SKSMRH125-2R2	2.2	M、N	1/0.25	0.010	8000
SKSMRH125-3R3	3.3	M、N	1/0.25	0.013	8000
SKSMRH125-4R7	4.7	M、N	1/0.25	0.020	8000
SKSMRH125-5R6	5.6	M、N	1/0.25	0.024	7000
SKSMRH125-6R8	6.8	M、N	1/0.25	0.025	6600
SKSMRH125-100	10	M、N	1/0.25	0.030	4000
SKSMRH125-120	12	M、N	1/0.25	0.032	3500
SKSMRH125-150	15	M、N	1/0.25	0.035	3300
SKSMRH125-180	18	M、N	1/0.25	0.055	3000
SKSMRH125-220	22	M、N	1/0.25	0.060	2800
SKSMRH125-270	27	M、N	1/0.25	0.070	2300
SKSMRH125-330	33	M、N	1/0.25	0.080	2100
SKSMRH125-390	39	M、N	1/0.25	0.090	2000
SKSMRH125-470	47	M、N	1/0.25	0.120	1800
SKSMRH125-560	56	M、N	1/0.25	0.135	1700
SKSMRH125-680	68	M、N	1/0.25	0.145	1500
SKSMRH125-820	82	M、N	1/0.25	0.175	1400
SKSMRH125-101	100	M、N	1/0.25	0.185	1300
SKSMRH125-121	120	M、N	1/0.25	0.250	1100
SKSMRH125-151	150	M、N	1/0.25	0.290	1000
SKSMRH125-181	180	M、N	1/0.25	0.350	900
SKSMRH125-221	220	M、N	1/0.25	0.470	800
SKSMRH125-271	270	M、N	1/0.25	0.540	750
SKSMRH125-331	330	M、N	1/0.25	0.740	680
SKSMRH125-391	390	M、N	1/0.25	0.820	650
SKSMRH125-471	470	M、N	1/0.25	0.850	580
SKSMRH125-561	560	M、N	1/0.25	1.000	540
SKSMRH125-681	680	M、N	1/0.25	1,200	480
SKSMRH125-821	820	M、N	1/0.25	1.600	430
SKSMRH125-102	1000	M、N	1/0.25	1.800	400

SKSMRH127 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
SKSMRH127-1R2	1.2	M、N	1/0.25	0.007	14000
SKSMRH127-2R4	2.4	M、N	1/0.25	0.012	13000
SKSMRH127-3R5	3.5	M、N	1/0.25	0.013	10000
SKSMRH127-4R7	4.7	M、N	1/0.25	0.015	9000
SKSMRH127-6R8	6.8	M、N	1/0.25	0.017	7000
SKSMRH127-100	10	M、N	1/0.25	0.021	6500
SKSMRH127-120	12	M、N	1/0.25	0.024	4900
SKSMRH127-150	15	M、N	1/0.25	0.027	4500
SKSMRH127-180	18	M、N	1/0.25	0.039	3900
SKSMRH127-220	22	M、N	1/0.25	0.043	3600
SKSMRH127-270	27	M、N	1/0.25	0.045	3400
SKSMRH127-330	33	M、N	1/0.25	0.064	3000
SKSMRH127-390	39	M、N	1/0.25	0.072	2750
SKSMRH127-470	47	M、N	1/0.25	0.10	2500
SKSMRH127-560	56	M、N	1/0.25	0.11	2350
SKSMRH127-680	68	M、N	1/0.25	0.14	2100
SKSMRH127-820	82	M、N	1/0.25	0.16	1950
SKSMRH127-101	100	M、N	1/0.25	0.22	1700
SKSMRH127-121	120	M、N	1/0.25	0.25	1600
SKSMRH127-151	150	M、N	1/0.25	0.28	1420
SKSMRH127-181	180	M、N	1/0.25	0.35	1300
SKSMRH127-221	220	M、N	1/0.25	0.39	1160
SKSMRH127-271	270	M、N	1/0.25	0.56	1060
SKSMRH127-331	330	M、N	1/0.25	0.64	950
SKSMRH127-391	390	M、N	1/0.25	0.70	880
SKSMRH127-471	470	M、N	1/0.25	0.98	790
SKSMRH127-561	560	M、N	1/0.25	1.07	730
SKSMRH127-681	680	M、N	1/0.25	1.46	670
SKSMRH127-821	820	M、N	1/0.25	1.64	600
SKSMRH127-102	1000	M、N	1/0.25	1.84	550

SKSMRH129 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
SKSMRH129-1R0	1.0	N	100/0.25	0.0065	20000
SKSMRH129-2R7	2.7	M、N	100/0.25	0.0115	16000
SKSMRH129-4R7	4.7	M、N	100/0.25	0.015	10000
SKSMRH129-6R8	6.8	M、N	100/0.25	0.020	10000
SKSMRH129-100	10	M、N	100/0.25	0.025	7000
SKSMRH129-150	15	M、N	100/0.25	0.036	8000
SKSMRH129-220	22	M、N	100/0.25	0.030	6500
SKSMRH129-330	33	M、N	100/0.25	0.0495	3300
SKSMRH129-390	39	M、N	100/0.25	0.050	3200
SKSMRH129-470	47	M、N	100/0.25	0.080	3500
SKSMRH129-680	68	M、N	100/0.25	0.090	2350
SKSMRH129-101	100	M、N	100/0.25	0.150	5000
SKSMRH129-221	220	M、N	100/0.25	0.300	1500
SKSMRH129-561	560	M、N	100/0,25	0.715	800
SKSMRH129-681	680	M、N	100/0.25	0.715	1000
SKSMRH129-122	1200	M、N	100/0.25	1.30	500
SKSMRH129-332	3300	M、N	100/0.25	5.50	150
SKSMRH129-103	10000	M、N	100/0.25	15.0	200

SKSMRH103R 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
SKSMRH103R-1R5	1.5	M、N	100/0.25	0.011	5800
SKSMRH103R-2R2	2.2	M、N	100/0.25	0.017	5100
SKSMRH103R-3R3	3.3	M、N	100/0.25	0.021	4700
SKSMRH103R-4R7	4.7	M、N	100/0.25	0.030	4000
SKSMRH103R-6R8	6.8	M、N	100/0.25	0.035	3600

Part Number	Inductance	Inductance Tolerance	L Test Freq.	Max. DC Resistance	Rated Current
Units	μH	-	KHz/V	Ω	mA
Symbol	L	-	Freq	DCR	Ir
SKSMRH103R-8R2	8.2	M、N	100/0.25	0.050	3000
SKSMRH103R-100	10	M、N	100/0.25	0.059	2800
SKSMRH103R-150	15	M、N	100/0.25	0.091	2050
SKSMRH103R-220	22	M、N	100/0.25	0.143	1600
SKSMRH103R-330	33	M、N	100/0.25	0.202	1350
SKSMRH103R-470	47	M、N	100/0.25	0.299	1200
SKSMRH103R-560	56	M、N	100/0.25	0.325	1150
SKSMRH103R-680	68	M、N	100/0.25	0.429	950
SKSMRH103R-820	82	M、N	100/0.25	0.494	800
SKSMRH103R-101	100	M、N	100/0.25	0.683	700
SKSMRH103R-121	120	M、N	100/0.25	0.754	650
SKSMRH103R-151	150	M、N	100/0.25	0.871	510

SKSMRH104R 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
SKSMRH104R-1R5	1.5	M、N	100/0.25	0.0081	6500
SKSMRH104R-2R5	2.5	M、N	100/0.25	0.0105	6100
SKSMRH104R-3R8	3.8	M、N	100/0.25	0.013	5500
SKSMRH104R-5R2	5.2	M、N	100/0.25	0.022	5400
SKSMRH104R-7R0	7.0	M、N	100/0.25	0.027	4800
SKSMRH104R-100	10	M、N	100/0.25	0.035	4000
SKSMRH104R-150	15	M、N	100/0.25	0.050	3600
SKSMRH104R-220	22	M、N	100/0.25	0.073	2900
SKSMRH104R-330	33	M、N	100/0.25	0.093	2300
SKSMRH104R-470	47	M、N	100/0.25	0.128	2100
SKSMRH104R-680	68	M、N	100/0.25	0.213	1500
SKSMRH104R-101	100	M、N	100/0.25	0.304	1360
SKSMRH104R-151	150	M、N	100/0.25	0.506	1150
SKSMRH104R-221	220	M、N	100/0.25	0.756	920
SKSMRH104R-331	330	M、N	100/0.25	1.090	700

SKSMRH105R 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
SKSMRH105R-1R5	1.5	M、N	100/0.25	0.0058	8300
SKSMRH105R-2R2	2.2	M、N	100/0.25	0.0072	7500
SKSMRH105R-3R3	3.3	M、N	100/0.25	0.0104	6500
SKSMRH105R-4R7	4.7	M、N	100/0.25	0.0123	6100
SKSMRH105R-6R8	6.8	M、N	100/0.25	0.0180	5400
SKSMRH105R-8R2	8.2	M、N	100/0.25	0.0200	5000
SKSMRH105R-100	10	M、N	100/0.25	0.0260	4500
SKSMRH105R-150	15	M、N	100/0.25	0.0410	3400
SKSMRH105R-220	22	M、N	100/0.25	0.0610	2950
SKSMRH105R-330	33	M、N	100/0.25	0.0840	2500
SKSMRH105R-470	47	M、N	100/0.25	0.130	2000
SKSMRH105R-560	56	M、N	100/0.25	0.149	1900
SKSMRH105R-680	68	M、N	100/0.25	0.201	1650
SKSMRH105R-820	82	M、N	100/0.25	0.227	1500
SKSMRH105R-101	100	M、N	100/0.25	0.253	1350
SKSMRH105R-121	120	M、N	100/0.25	0.303	1280
SKSMRH105R-151	150	M、N	100/0.25	0.370	1120
SKSMRH105R-181	180	M、N	100/0.25	0.419	1040
SKSMRH105R-221	220	M、N	100/0.25	0.500	940
SKSMRH105R-271	270	M、N	100/0.25	0.627	840
SKSMRH105R-331	330	M、N	100/0.25	0.812	750
SKSMRH105R-391	390	M、N	100/0.25	0.953	700
SKSMRH105R-471	470	M、N	100/0.25	1.289	600
SKSMRH105R-561	560	M、N	100/0.25	1.60	540
SKSMRH105R-681	680	M、N	100/0.25	2.00	520
SKSMRH105R-821	820	M、N	100/0.25	2.15	500
SKSMRH105R-102	1000	M、N	100/0.25	2.75	480