

- 规格书 -

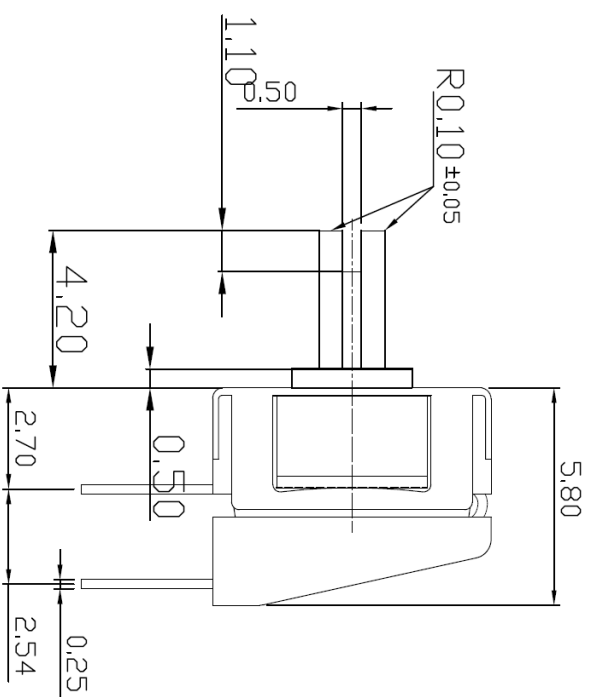
产品型号: SKBR-10H1

产品名称: 旋转编码开关

SM SWITCH CO.,LTD

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REV		7
0H1		
CO., LTD.		



Project	Year	Value
Project A	2018	100
Project B	2019	150
Project C	2020	200
Project D	2021	250
Project E	2022	300
Project F	2023	350
Project G	2024	400
Project H	2025	450
Project I	2026	500
Project J	2027	550
Project K	2028	600
Project L	2029	650
Project M	2030	700
Project N	2031	750
Project O	2032	800
Project P	2033	850
Project Q	2034	900
Project R	2035	950
Project S	2036	1000
Project T	2037	1050
Project U	2038	1100
Project V	2039	1150
Project W	2040	1200
Project X	2041	1250
Project Y	2042	1300
Project Z	2043	1350
Project AA	2044	1400
Project AB	2045	1450
Project AC	2046	1500
Project AD	2047	1550
Project AE	2048	1600
Project AF	2049	1650
Project AG	2050	1700
Project AH	2051	1750
Project AI	2052	1800
Project AJ	2053	1850
Project AK	2054	1900
Project AL	2055	1950
Project AM	2056	2000
Project AN	2057	2050
Project AO	2058	2100
Project AP	2059	2150
Project AQ	2060	2200
Project AR	2061	2250
Project AS	2062	2300
Project AT	2063	2350
Project AU	2064	2400
Project AV	2065	2450
Project AW	2066	2500
Project AX	2067	2550
Project AY	2068	2600
Project AZ	2069	2650
Project BA	2070	2700
Project BB	2071	2750
Project BC	2072	2800
Project BD	2073	2850
Project BE	2074	2900
Project BF	2075	2950
Project BG	2076	3000
Project BH	2077	3050
Project BI	2078	3100
Project BJ	2079	3150
Project BK	2080	3200
Project BL	2081	3250
Project BM	2082	3300
Project BN	2083	3350
Project BO	2084	3400
Project BP	2085	3450
Project BQ	2086	3500
Project BR	2087	3550
Project BS	2088	3600
Project BT	2089	3650
Project BU	2090	3700
Project BV	2091	3750
Project BW	2092	3800
Project BX	2093	3850
Project BY	2094	3900
Project BZ	2095	3950
Project CA	2096	4000
Project CB	2097	4050
Project CC	2098	4100
Project CD	2099	4150
Project CE	2100	4200
Project CF	2101	4250
Project CG	2102	4300
Project CH	2103	4350
Project CI	2104	4400
Project CJ	2105	4450
Project CK	2106	4500
Project CL	2107	4550
Project CM	2108	4600
Project CN	2109	4650
Project CO	2110	4700
Project CP	2111	4750
Project CQ	2112	4800
Project CR	2113	4850
Project CS	2114	4900
Project CT	2115	4950
Project CU	2116	5000
Project CV	2117	5050
Project CW	2118	5100
Project CX	2119	5150
Project CY	2120	5200
Project CZ	2121	5250
Project DA	2122	5300
Project DB	2123	5350
Project DC	2124	5400
Project DD	2125	5450
Project DE	2126	5500
Project DF	2127	5550
Project DG	2128	5600
Project DH	2129	5650
Project DI	2130	5700
Project DJ	2131	5750
Project DK	2132	5800
Project DL	2133	5850
Project DM	2134	5900
Project DN	2135	5950
Project DO	2136	6000
Project DP	2137	6050
Project DQ	2138	6100
Project DR	2139	6150
Project DS	2140	6200
Project DT	2141	6250
Project DU	2142	6300
Project DV	2143	6350
Project DW	2144	6400
Project DX	2145	6450
Project DY	2146	6500
Project DZ	2147	6550
Project EA	2148	6600
Project EB	2149	6650
Project EC	2150	6700
Project ED	2151	6750
Project EE	2152	6800
Project EF	2153	6850
Project EG	2154	6900
Project EH	2155	6950
Project EI	2156	7000
Project EJ	2157	7050
Project EK	2158	7100
Project EL	2159	7150
Project EM	2160	7200
Project EN	2161	7250
Project EO	2162	7300
Project EP	2163	7350
Project EQ	2164	7400
Project ER	2165	7450
Project ES	2166	7500
Project ET	2167	7550
Project EU	2168	7600
Project EV	2169	7650
Project EW	2170	7700
Project EX	2171	7750
Project EY	2172	7800
Project EZ	2173	7850
Project FA	2174	7900
Project FB	2175	7950
Project FC	2176	8000
Project FD	2177	8050
Project FE	2178	8100
Project FF	2179	8150
Project FG	2180	8200
Project FH	2181	8250
Project FI	2182	8300
Project FJ	2183	8350
Project FK	2184	8400
Project FL	2185	8450
Project FM	2186	8500
Project FN	2187	8550
Project FO	2188	8600
Project FP	2189	8650
Project FQ	2190	8700
Project FR	2191	8750
Project FS	2192	8800
Project FT	2193	8850
Project FU	2194	8900
Project FV	2195	8950
Project FW	2196	9000
Project FX	2197	9050
Project FY	2198	9100
Project FZ	2199	9150
Project GA	2200	9200
Project GB	2201	9250
Project GC	2202	9300
Project GD	2203	9350
Project GE	2204	9400
Project GF	2205	9450
Project GG	2206	9500
Project GH	2207	9550
Project GI	2208	9600
Project GJ	2209	9650
Project GK	2210	9700
Project GL	2211	9750
Project GM	2212	9800
Project GN	2213	9850
Project GO	2214	9900
Project GP	2215	9950
Project GQ	2216	10000
Project GR	2217	10050
Project GS	2218	10100
Project GT	2219	10150
Project GU	2220	10200
Project GV	2221	10250
Project GW	2222	10300
Project GX	2223	10350
Project GY	2224	10400
Project GZ	2225	10450
Project HA	2226	10500
Project HB	2227	10550
Project HC	2228	10600
Project HD	2229	10650
Project HE	2230	10700
Project HF	2231	10750
Project HG	2232	10800
Project HH	2233	10850
Project HI	2234	10900
Project HJ	2235	10950
Project HK	2236	11000
Project HL	2237	11050
Project HM	2238	11100
Project HN	2239	11150
Project HO	2240	11200
Project HP	2241	11250
Project HQ	2242	11300
Project HR	2243	11350
Project HS	2244	11400
Project HT	2245	11450
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Project HV	2247	11550
Project HW	2248	11600
Project HX	2249	11650
Project HY	2250	11700
Project HZ	2251	11750
Project IA	2252	11800
Project IB	2253	11850
Project IC	2254	11900
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Project IF	2257	12050
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Project IH	2259	12150
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Project IJ	2261	12250
Project IK	2262	12300
Project IL	2263	12350
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Project IN	2265	12450
Project IO	2266	12500
Project IP	2267	12550
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Project IR	2269	12650
Project IS	2270	12700
Project IT	2271	12750
Project IU	2272	12800
Project IV	2273	12850
Project IW	2274	12900
Project IX	2275	12950
Project IY	2276	13000
Project IZ	2277	13050
Project JA	2278	13100
Project JB	2279	13150
Project JC	2280	13200
Project JD	2281	13250
Project JE	2282	13300
Project JF	2283	13350
Project JG	2284	13400
Project JH	2285	13450
Project JI	2286	13500
Project JJ	2287	13550
Project JK	2288	13600
Project JL	2289	13650
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Project JN	2291	13750
Project JO	2292	13800
Project JP	2293	13850
Project JQ	2294	13900
Project JR	2295	13950
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Project JT	2297	14050
Project JU	2298	14100
Project JV	2299	14150
Project JW	2300	14200
Project JX	2301	14250
Project JY	2302	14300
Project JZ	2303	14350
Project KA	2304	14400
Project KB	2305	14450
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Project KE	2308	14600
Project KF	2309	14650
Project KG	2310	14700
Project KH	2311	14750
Project KI	2312	14800
Project KJ	2313	14850
Project KK	2314	14900
Project KL	2315	14950
Project KM	2316	15000
Project KN	2317	15050
Project KO	2318	15100
Project KP	2319	15150
Project KQ	2320	15200
Project KR	2321	15250
Project KS	2322	15300
Project KT	2323	15350
Project KU	2324	15400
Project KV	2325	15450
Project KW	2326	15500
Project KX	2327	15550
Project KY	2328	15600
Project KZ	2329	15650
Project LA	2330	15700
Project LB	2331	15750
Project LC	2332	15800
Project LD	2333	15850
Project LE	2334	15900
Project LF	2335	15950
Project LG	2336	16000
Project LH	2337	16050
Project LI	2338	16100
Project LJ	2339	16150
Project LK	2340	16200
Project LL	2341	16250
Project LM	2342	16300
Project LN	2343	16350
Project LO	2344	16400
Project LP	2345	16450
Project LQ	2346	16500
Project LR	2347	16550
Project LS	2348	16600
Project LT	2349	16650
Project LU	2350	16700
Project LV	2351	16750
Project LW	2352	16800
Project LX	2353	16850
Project LY	2354	16900
Project LZ	2355	16950
Project MA	2356	17000
Project MB	2357	17050
Project MC	2358	17100
Project MD	2359	17150
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Project MF	2361	17250
Project MG	2362	17300
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Project MO	2370	17700
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Project MR	2373	17850
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Project MT	2375	17950
Project MU	2376	18000
Project MV	2377	18050
Project MW	2378	18100
Project MX	2379	18150
Project MY	2380	18200
Project MZ	2381	18250
Project NA	2382	18300
Project NB	2383	18350
Project NC	2384	18400
Project ND	2385	18450
Project NE	2386	18500
Project NF	2387	18550
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Project NI	2390	18700
Project NJ	2391	18750
Project NK	2392	18800
Project NL	2393	18850
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Project NQ	2398	19100
Project NR	2399	19150
Project NS	2400	19200
Project NT	2401	19250
Project NU	2402	19300
Project NV	2403	19350
Project NW	2404	19400
Project NX	2405	19450
Project NY	2406	19500
Project NZ	2407	19550
Project OA	2408	19600
Project OB	2409	19650
Project OC	2410	19700
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Project OG	2414	19900
Project OH	2415	19950
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Project OJ	2417	20050
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Project OP	2423	20350
Project OQ	2424	20400
Project OR	2425	20450
Project OS	2426	20500
Project OT	2427	20550
Project OU	2428	20600
Project OV	2429	20650
Project OW	2430	20700
Project OX	2431	20750
Project OY	2432	20800
Project OZ	2433	20850
Project PA	2434	20900
Project PB	2435	209

APPD	CHKD	D'SGCD	TITLE	
MINI ROTARY DIP SWITCH				
YD WANG	J.S KIM	H.S LEE	MODEL NO.	REV
			SKBR-10H1	7
SM SWITCH CO., LTD.				

MINI ROTARY DIP SWITCH SPECIFICATION

Rev. 7
P:1/4

1. Style:

This specification describes "Rotary Switch" mainly used as signal switch of electric devices with the general requirements of mechanical and electrical characteristics.

1.1 Operating / Storage Temperature Range : -40℃ ~ +85℃

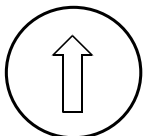
2. Current Range:

2.1 None-Switching : 400 mA, 42V

2.2 Switching : 150 mA, 42V

3. Type of Actuation : Rotating

4. Test Sequence :

E L E C T R I C P E R F O R M A N C E	ITEM	DESCRIPTION	TEST CONDITIONS	REQUIREMENTS
	1	Visual Examination	By visual examination check without any out pressure & testing.	There shall be no defects that affect the serviceability of the product
	2	Contact Resistance	① To be measured between the two terminals associated with each switch pole ② Measurements shall be made with a 1kHz shall current contact resistance meter	80mΩ max.(initial)
	3	Insulation Resistance	250V DC, 1minute ±5seconds	100MΩ min
	4	Dielectric withstanding Volotage	250V AC(50Hz or 60Hz)shall be applied between all the adjacent terminal and between the terminal and the frame For 1 minute	There shall be no breakdown or flashover
	5	Operation Force	Applied in the direction of operation 	120gf ±30gf

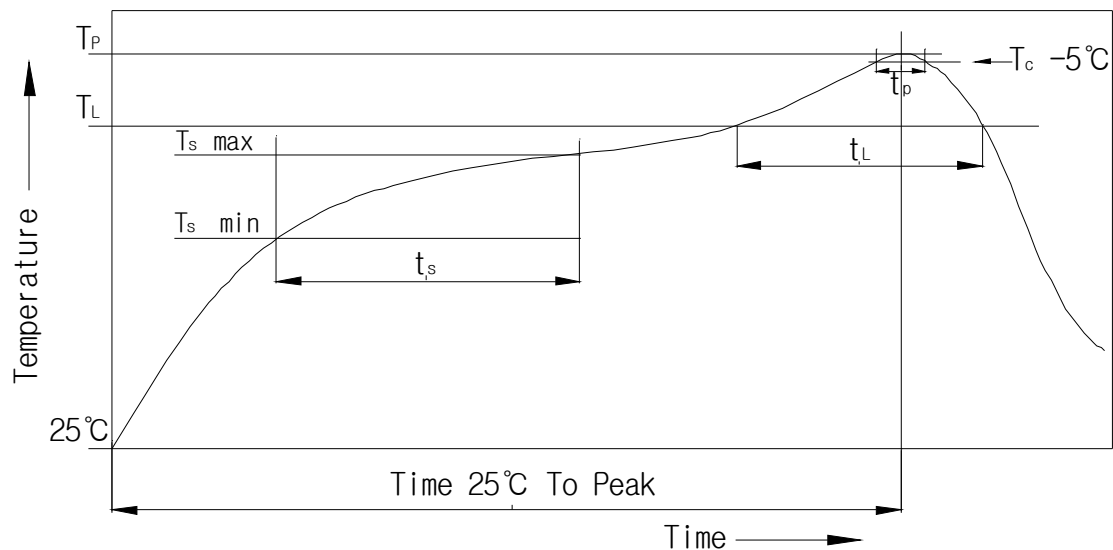


MINI ROTARY DIP SWITCH SPECIFICATION

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M A C H I N P E R F O R M A N C E	6	Operation Life	Measurements shall be made following the test set forth below: 1)100mA, 42V DC resistive load 2)Rate of operation: 15~20 cycles/ minute 3)Step of operation: 25,000 steps	1)As shown in item 3,4 2)Contact Resistance: 200mΩ max 3)Final-after test
	7	Resistance Low Temperature	Following the test set forth below the sample shall be left in normal temperature and humidity conditions for an hour before measurements are made: 1)Temperature: -60℃ ±3℃ 2)Time: 96 hours	As shown in item 2~5
	8	Resistance High Temperature	Following the test set forth below the sample shall be left in normal temperature and humidity conditions for an hour before measurements are made: 1)Temperature: 125℃ ±2℃ 2)Time: 96 hours	1)As shown in item 3~5 2)Contact Resistance: 200mΩ max
	9	Resistance Humidity	Following the test set forth below the sample shall be left in normal temperature and humidity conditions for an hour before measurements are made: 1)Temperature: 40℃ ±2℃ 2)Relative humidity: 90~95% 3)Time: 96 hours	1)As shown in item 4 2)Contact Resistance: 200mΩ max 3)Insulation Resistance: 10MΩ min
	10	Solder Condition	1. Iron Soldering 3s / 350℃ 2. Wave Soldering 5s / 280℃ 3. Reflow Soldering 10s / 260℃	

5. Reflow Soldering Conditions:



1) Classification Reflow Profiles

Profile Feature	Pb-Free Assembly
Average Ramp-UP Rate(Ts max to T _P)	3°C/second max
Preheat - Temperature Min(Ts min) - Temperature Max(Ts max) - Time (ts min to ts max)	150°C 200°C 60-180seconds
Time maintained above: - Temperature (T_L) - Time (t_L)	217°C 60-150seconds
Peak/Classification Temperature(T _P)	260°C +0°C/ -5°C
Time within 5°C of actual Peak Temperature(T _P)	min 30 seconds
Ramp-Down Rate	6°C/sec max
Time 25°C to Peak Temperature	8 minutes max

6. This item is "ROHS" Compliant

MINI ROTARY DIP SWITCH SPECIFICATION

Rev. 7
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7. Part List

NO	Part Name	Q'ty	Materials	Treatment	Remark
1	Cover	1	Stainless Steel		Laser
2	Spring Plate	1	Stainless Steel		
3	Guide Plate	1	Stainless Steel		
4	Contact	1	Phosphor Bronze	Plating: Gold	Au 0.03 μ m Min Ni 0.1 μ m Min
5	Terminal	1	Phosphor Bronze	Plating: Gold	Au 0.03 μ m Min Ni 0.3 μ m Min
6	Rotor	1	LCP		
7	Base	1	LCP		
8	O-Ring	1	Silicone		