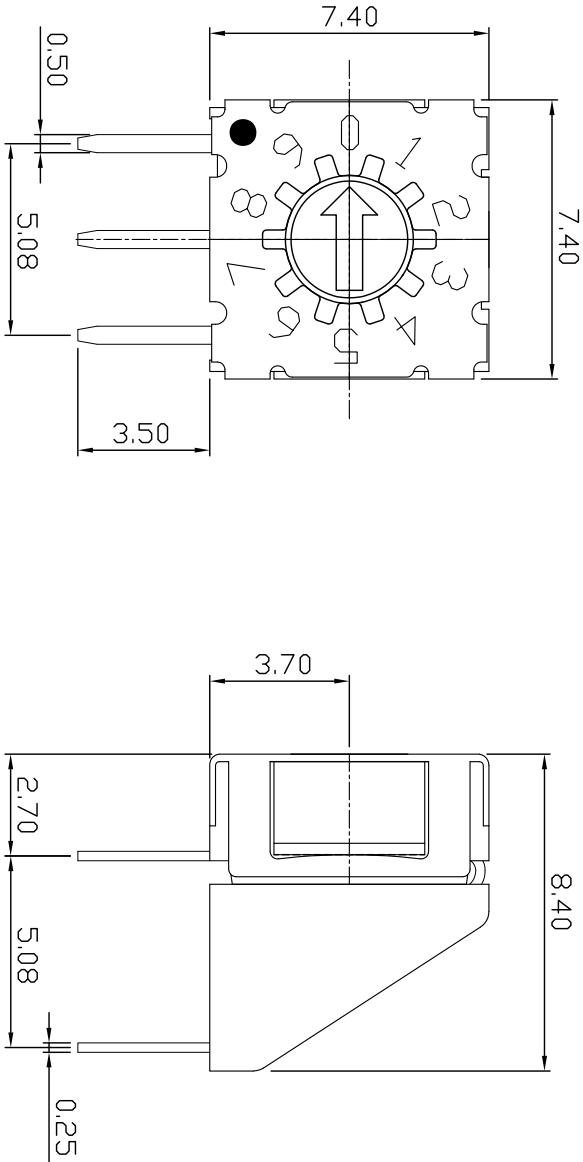


MRK	DATE	REMARKS
Δ		
Δ		



SPECIFICATION

1.MECHANICAL DATA

PERMISS. AMBIENT TEMP. -40°C - +85°C
TORQUE MIN. 0.7Ncm
MECH. LIFETIME MIN. 10° STEPS
POSITIONS PER ROTATION
10, 16(NON-SELF-LOCKING)

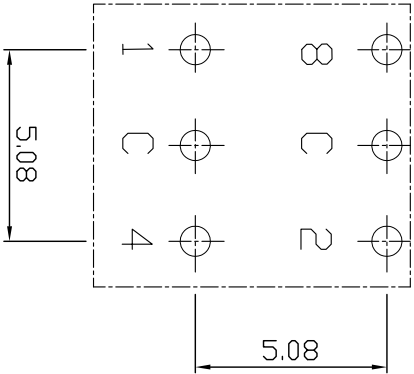
2. ELECTRICAL DATA

OPERATING VOLTAGE <=42V
CONTACT LOAD, STATIC <= 0.4A
CONTACT LOAD, DYNAMIC <= 0.15A
NDRMAL AND TEST VOLTAGE 250V 50Hz/1min
CONTACT RESISTANT < 80mΩhm
INSULATION RESISTANCE > 100MΩhm

3. SOLDER RECOMMENDATIONS

SOLDER IRON MAX. 2s/340°C
SOLDER BATH MAX. 10s/260°C

4. LIFE Cycle : 25,000 Steps



P.C.B DIMENSION

Real Coded	
C	1
2	4
8	
0	●
1	●
2	●
3	●
4	●
5	●
6	●
7	●
8	●
9	●
A	●
B	●
C	●
D	●
E	●
F	●

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

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℃

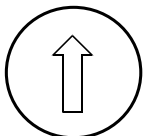
2. Current Range:

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
M A C H I N	5	Operation Force	Applied in the direction of operation 	120gf ±30gf

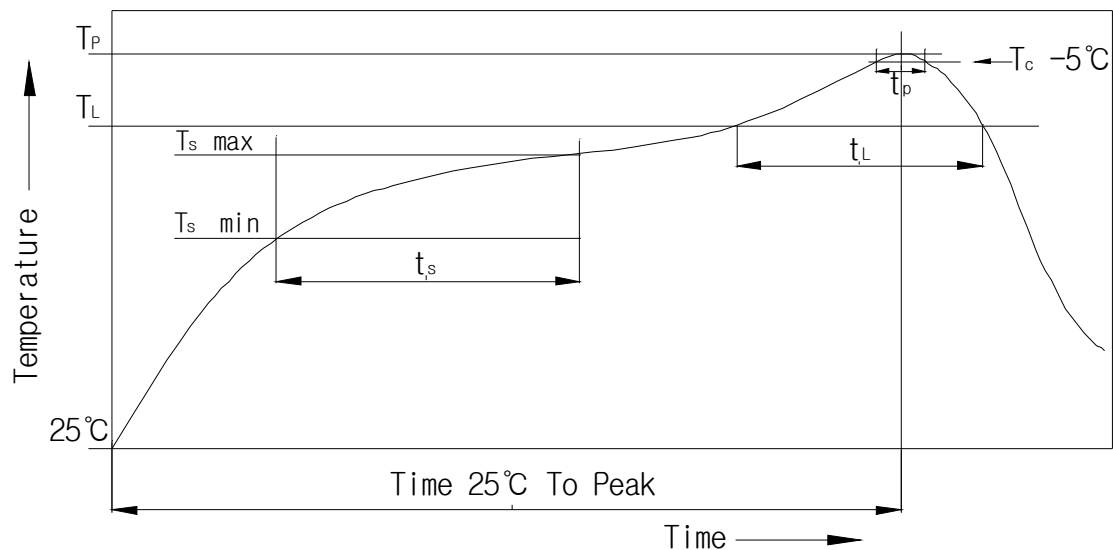


MINI ROTARY DIP SWITCH SPECIFICATION

Rev. 7
P: 2/4

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

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

7. Part List

NO	Part Name	Q'ty	Materials	Treatment	Remark
1	Cover	1	Stainless Steel		Print
2	Spring Plate	1	Stainless Steel		
3	Guide Plate	1	Stainless Steel		
4	Contact	1	Phosphor Bronze	Plating: Gold	Au 0.07 μ m Min Ni 0.1 μ m Min
5	Terminal	1	Phosphor Bronze	Plating: Gold	Au 0.07 μ m Min Ni 0.3 μ m Min
6	Rotor	1	LCP		
7	Base	1	LCP		
8	O-Ring	1	Silicone		