

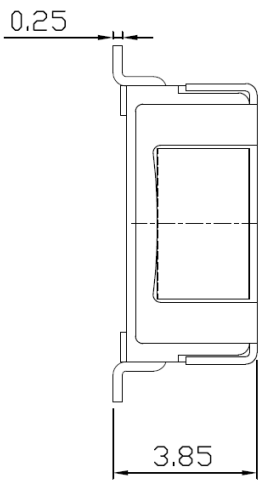
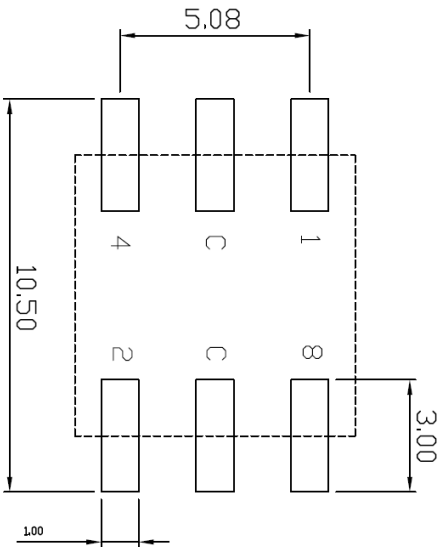
- 规格书 -

产品型号： STAR-16S

产品名称： 旋转编码开关

Add : 江苏省无锡市新吴区弘毅路8号金帛座706室
韩国京畿道富川市三鹊路22号富川科技园103-506栋
TEL : +86-510-8591-9217
H. P : 138-6177-3466
E-mail : SMSWITCH@SIMAOKJ.COM
Web : WWW.SIMAOKJ.CN

Technical drawing of a square mechanical component. The overall width is 7.40 and the overall height is 9.50. The inner square area has a width of 5.08. The component features a central circular area with a large upward-pointing arrow. Surrounding this central area is a gear-like pattern with 12 teeth. The teeth are labeled with numbers 1 through 12 in a clockwise direction starting from the top. The component has four mounting tabs, one on each side. A small black circle is located on the right side of the component. The drawing includes dimension lines and arrows indicating the measurements.



P.C.B. DIMENSION

SM SWITCH CO., LTD.

MINI ROTARY DIP SWITCH SPECIFICATION

Rev. 7
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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℃

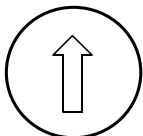
2. Current Range:

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

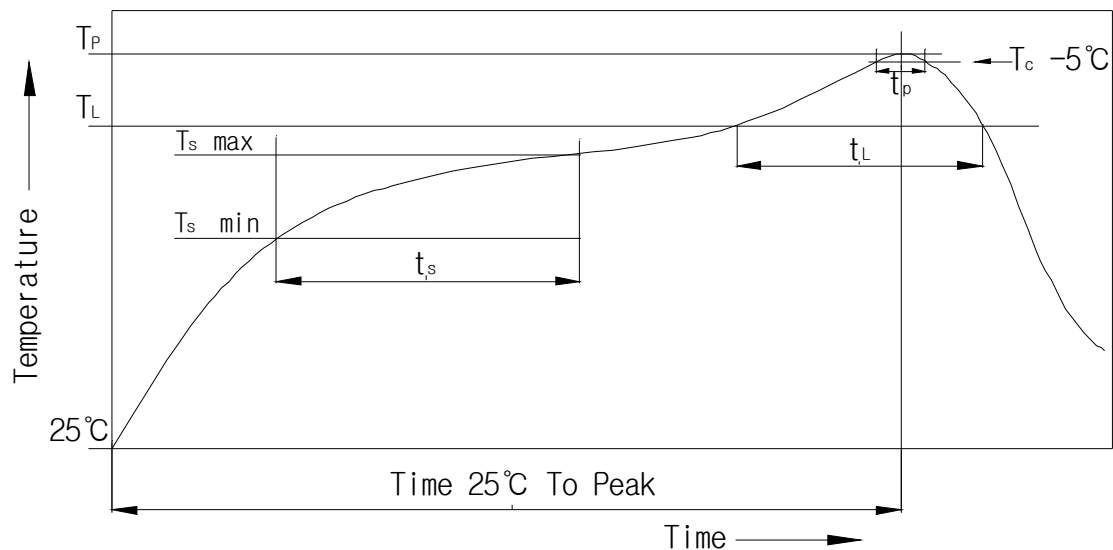


MINI ROTARY DIP SWITCH SPECIFICATION

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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

5. Reflow Soldering Conditions:



1) Classification Reflow Profiles

Profile Feature	Pb-Free Assembly
Average Ramp-UP Rate(Ts max to TP)	3°C/second max
Preheat <ul style="list-style-type: none"> - Temperature Min(Ts min) - Temperature Max(Ts max) - Time (ts min to ts max) 	150°C 200°C 60-180seconds
Time maintained above: <ul style="list-style-type: none"> - Temperature (TL) - Time (tL) 	217°C 60-150seconds
Peak/Classification Temperature(TP)	260°C +0°C/ -5°C
Time within 5°C of actual Peak Temperature(TP)	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 0.03 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		

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