

- 规格书 -

产品型号: MDR-16H1

产品名称: 旋转编码开关

SM SWITCH CO.,LTD

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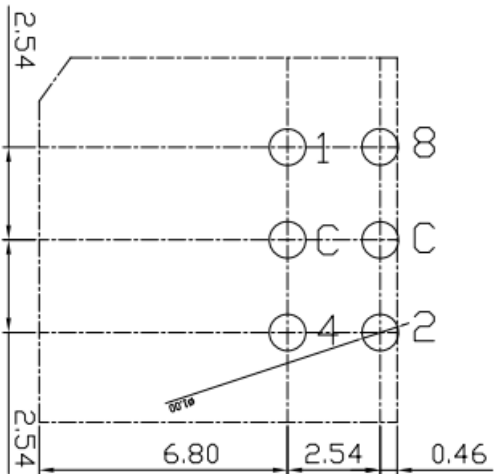
Technical drawing of a mechanical component, showing a top view and a side view with dimensions.

Top View:

- Overall width: 10.00
- Overall height: 10.00
- Central feature: A circular hole with a cross-shaped cutout.
- Surrounding feature: A circular hole with numbers 0 through 9 arranged around it.
- Four small rectangular features (possibly pins or holes) are located at the corners, each with a width of 2.54.

Side View:

- Overall height: 9.80
- Top flange width: 3.50
- Top flange height: 2.54
- Bottom flange width: 4.60
- Bottom flange height: 2.20



P.C.B DIMENSION

		Real Code				
		C	1	2	4	8
10	P	0	•	•		
	o	1	•			
	s	2	•	•		
	i	3	•	•		
16	P	4	•		•	
	o	5	•		•	
	s	6	•	•		
	i	7	•	•	•	
16	P	8	•			•
	o	9	•			•
	s	A	•	•		•
	i	B	•	•		•
16	P	C	•		•	•
	o	D	•	•		•
	s	E	•		•	•
	i	F	•	•	•	•

TITLE:		ROTARY DIP SWITCH	
APPD	CHKD	D'SGDD	
YD WANG	J.S. KIM	H.S. LEE	
MODEL NO.		MDR-16H1	
		REV	A
SM SWITCH CO., LTD.			

ROTARY DIP SWITCH SPECIFICATION

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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℃

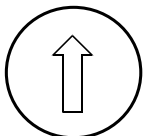
2. Current Range:

2.1 None-Switching : 200mA, 42V

2.2 Switching : 150mA, 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
	3	Insulation Resistance	250V DC, 1minute ±5seconds	100MΩ min
	4	Dielectric withstanding Voltage	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 flash over
	5	Operation Force	Applied in the direction of operation 	700gf/cm. max

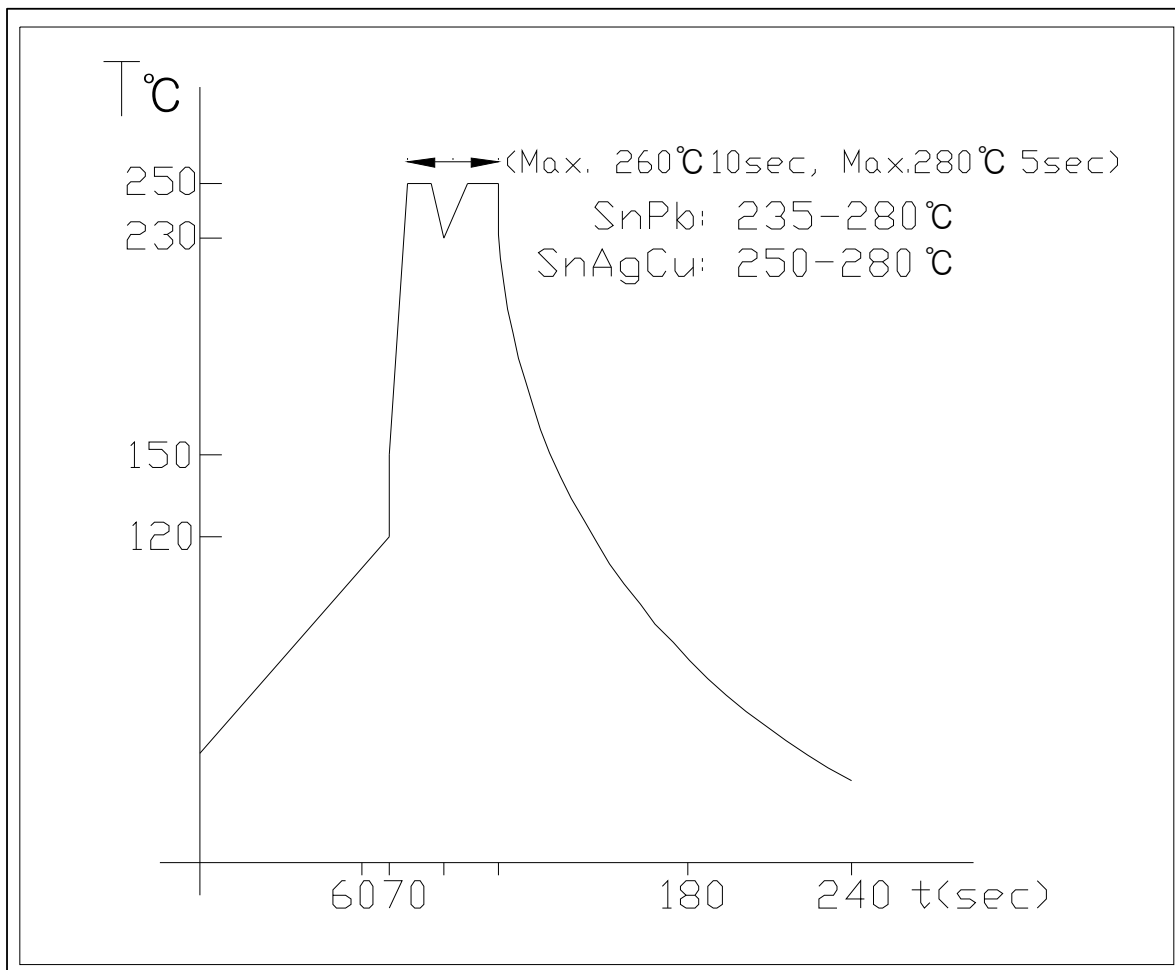


ROTARY DIP SWITCH SPECIFICATION

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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)150mA, 42V DC resistive load 2)Rate of operation: 15~20 cycles/ minute 3)Step of operation: 10,000 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: -40℃ ±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: 85℃ ±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. Wave Soldering Conditions:



6. manual Soldering

: Max. 350°C Max. 3sec

7. This item is "ROHS" Compliant

ROTARY DIP SWITCH SPECIFICATION

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8. Part List

NO	PART NAME	Q'TY	MATERIALS	TREATMENT	REMARK
1	COVER	1	PA66		Print:Black
2	BASE	1			
3	ACTUATOR	1	POM		
4	CONTACT & TERMINAL	1	PHOSPHOR BRONZE	CONTACT AND TERMINAL PLATING: GOLD PLATING OVER NICKEL	Au0.03 μ m Min Ni0.1 μ m Min
5	PCB	1	EPOXY	PLATING: GOLD PLATING	Au0.05 μ m Min
6	O-Ring	1	SILICONE		