DATA SHEET

SUNGMUN CODE: GSMR-10S

DESCRIPTION: COMPACT ROTARY DIP SWITCH

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MR. DATE REVISION SIGN

SPECIFICATION

1. Rating: 100mA, DC 5V (Switching)

100mA, DC 50V (None-Switching)

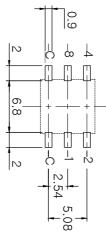
2. Contact Resistance: 100mΩ Max

4. Operating Force: 200gf Max 3. Insulation Resistance: 100M\(\Omega\) Min

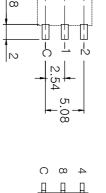
5. Life cycle: 25,000 steps

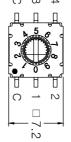
6. Sealing: IP67 (Dust & Water proof)

7. Packing: 70pcs Tube / 800pcs Reel Packing

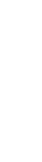


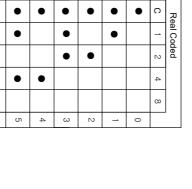






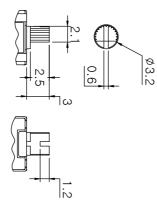


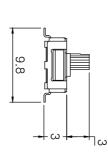


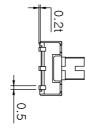


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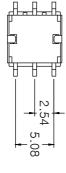
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"G" SERIES COMPACT ROTARY DIP SWITCH SPECIFICATION (7.2X7.2)

Rev. 03

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1. Style:

This specification describes "Compact Mini Rotary Dip Switch" which is G series.

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

2. Rating:

2.1 None-Switching: 100 mA, DC 50V 2.2 Switching: 100 mA, DC 5V

3. Type of Actuation : Rotating

4. Electrical Characteristics

ITEM	DESCRIPTION	TEST CONDITIONS	REQUIREMENTS
4-1	Visual Examination	By visual examination check without any out pressure & testing.	There shall be no defects that affect the serviceability of the product.
4-2	Contact Resistance	 To be measured between the two terminals associated with each switch pole. Measurements shall be made with a 1kHz shall current contact resistance meter. 	100mΩ max. (initial)
4-3	Insulation Resistance	100V DC	100 MΩ min.
4-4	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 flashover.



"G" SERIES COMPACT ROTARY DIP SWITCH SPECIFICATION (7.2X7.2)

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5. Mechanical Characteristics

ITEM	DESCRIPTION	TEST CONDITIONS	REQUIREMENTS
5-1	Operation Force	Operating direction shall be clockwise or counter clockwise direction	200gf•cm max (1.96N•cm max)
5-2	Operation Life	Measurements shall be made following the test set forth below: 1)100mA, 5V 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

6. Environmental Characteristics

ITEM	DESCRIPTION	TEST CONDITIONS	REQUIREMENTS
6-1	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°C ±3°C 2)Time: 96 hours	1)As shown in item 4-3, 4-4, 5-1 2)Contact Resistance: 200mΩ max
6-2	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°C ±2°C 2)Time: 96 hours	1)As shown in item 4-3, 4-4, 5-1 2)Contact Resistance: 200mΩ max
6-3	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°C ±2°C 2)Relative humidity: 90~95% 3)Time: 240 hours	1)As shown in item 4-4, 5-1 2)Contact Resistance: 200mΩ max 3)Insulation Resistance: 10 MΩ min



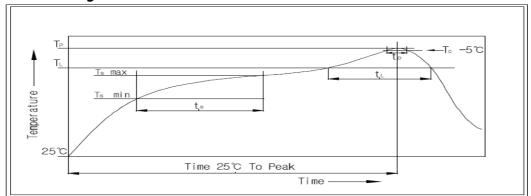
"G" SERIES COMPACT ROTARY DIP SWITCH SPECIFICATION (7.2X7.2)

Rev. 03

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- 7. This item is "RoHS" Compliant
- 8. Manual Soldering: Max 350°C, 3 sec.
- 9. Wave Soldering: Max 280°C, 5 sec.

10. Reflow Soldering Conditions:



10-1 Condition for Soldering

Profile Feature	Pb-Free Assembly	
Average Ramp-UP Rate(Ts max to TP)	3°C/second max	
Preheat		
- Temperature Min(Ts min)	150℃	
- Temperature Max(Ts max)	200℃	
- Time (ts min to ts max)	60-180seconds	
Time maintained above:		
- Temperature (TL)	217℃	
- Time (tL)	60-150seconds	
Peak/Classification Temperature(TP)	260°C +0°C/ -5°C	
Time within 5℃ of actual Peak Temperature(TP)	5~10 seconds	
Ramp-Down Rate	6°C/sec max	
Time 25℃ to Peak Temperature	8 minutes max	