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SPECIFICATION

MARK DATE

REMARKS

- 1. Operating Voltage : 42v
- (None-Switching: 400mA) (Switching : 100mA) (Switching
- 2. Contact Resistance: 80m2 Max 3. Insulation Resistance: 100M2 Min 4. Operating Force: 120gf ±30gf Max
- Life cycle : 25,000 steps

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SUS	MODEL NO.	置
SUNGMUN ELECTRONICS CO., LTD	MSDR-16S	MINI ROTARY DIP SWITCH
LTD.	REV A	ПСН

MINI ROTARY DIP SWITCH SPECIFICATION

Rev. 3 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 Temperature Range : -50° C ~ $+125^{\circ}$ C 1.2 Storage Temperature Range : -55° C ~ $+135^{\circ}$ C

2. Current Range:

2.1 Operating Voltage: 42V2.2 None-Switching: 400mA2.3 Switching: 100mA

2.4 Minimum Switching : 1μ A 20mVDC

3. Type of Actuation : Rotating4. Operation Life : 25,000 Steps

5. Test Sequence:

	ITEM	DESCRIPTION	TEST CONDITIONS	REQUIREMENTS
E L E C	1	Visual Examination	By visual examination check without any out pressure & testing.	There shall be no defects that affect the serviceability of the product
C T R I C P E R	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 	80mΩ max.(initial)
F O R M	3	Insulation Resistance	250V DC, 1minute ±5seconds	100MΩ min
A N C E	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	120±30gf/cm.

MINI ROTARY DIP SWITCH SPECIFICATION

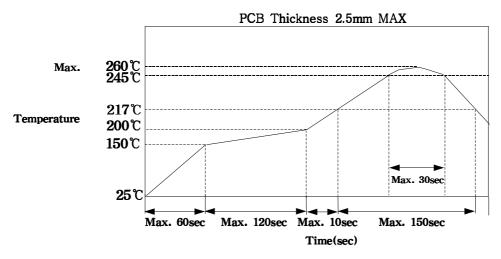
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6 Stop			A static load of 1 kg	There shall be no sign of damage mechanically.	
M			of 15 seconds. 1. Soldering Temper		
E C H A			Auto(wave) Soldering	-	
N		Soldering	280℃ ±5℃	See the temperature	
C	7	Heat	5±1sec	profile	As shown in item 2~6
A L P E R F O R M A N C E		Resistance	2. Duration of solder 3. Frequency of sold 2times max (PCB is 1.6mm in		
	8	Solder ability	1)Soldering temperature: 230 ± 5 °C 2)Flux: 5-10 seconds. 3)Duration of solder limmersion: 3 ± 0.5 sec		soldering coverage of dipping into solder must more than 75% was requested
	9	Resistance Low Temperature	Following the test so sample shall be left and humidity condition before measurements 1) Temperature: -40°C 2) Time: 96 hours	As shown in item 2~6	
W E A T H E R P R O O F	10	Resistance High Temperature	Following the test so sample shall be left and humidity condition before measurements 1) Temperature: 85°C 2) Time: 96 hours	in normal temperature ons for an hour s are made:	1)As shown in item 3~6 2)Contact Resistance: 200mΩ max
	11	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: $40^{\circ} \pm 2^{\circ}$ 2) Relative humidity: $90 \sim 93\%$ 3) Time: 96 hours		1)As shown in item 4,6 2)Contact Resistance: 200mΩ max 3)Insulation Resistance: 10MΩ min

MINI ROTARY DIP SWITCH SPECIFICATION

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6. Soldering Conditions:1)Condition for Soldering



2) The condition mentioned above is the temperature on the Cu foil of PCB surface.

There are where board's temperature greatly differs from switch's surface temperature depending on board's material, size, thickness, etc. Care, therefore, should be used not to allow switch's surface temperature to exceed $280\,^{\circ}$ C.

3)Precautions in Handling

Care should be exercised so that flux from the upper part of the printed circuit board does not adhere to the switch.

7. This item is "ROHS" Compliant

MINI ROTARY DIP SWITCH SPECIFICATION

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8. Part List

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

Report of the usage of Environmentally Hazardous Substances in the Products and/or the Parts Sungmun

ISO / TS 16949

ISO 14001 / Single PPM

Model Number : MSDR-S,MSSR-S Series

Date: 2008. 12. 16.

Parts	0-Ring	Rotor,Base	Cover,Spring Plate, Guide Plate	Marking	Contact,Terminal
Material	Silicone	LCP	STS	INK	PHOSPHOR BRONZE
Pb	n.d	n.d	n.d	n.d	35
Cd	n.d	n.d	n.d	n.d	n.d
Hg	n.d	n.d	n.d	n.d	n.d
Cr VI	n.d	n.d	n.d	n.d	n.d
PBB	n.d	n.d	n.d		_
PBDE	n.d	n.d	n.d		
첨부파일					

* n.d : not detected

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