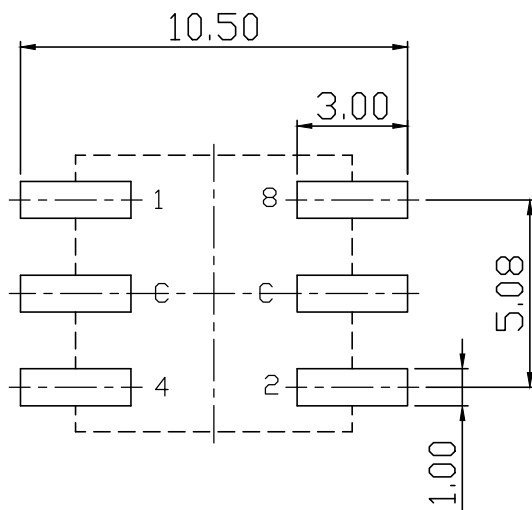# DATA SHEET

SUNGMUN CODE :   MSSR-16S-TR

DESCRIPTION   :   MINI ROTARY DIP SWITCH

SUNGMUN
ELECTRONICS

□7.40

10.50

3.00

5.08

1.00

P.C.B DIMENSION
(TOP VIEW)

8.35

3.85

0.25t

9.50

5.08

0.50
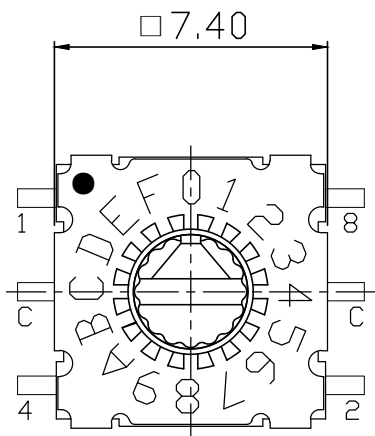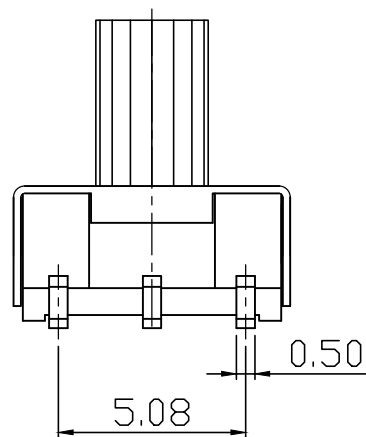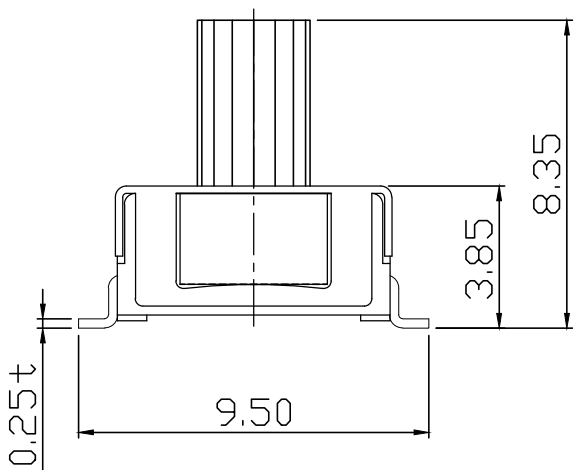
APPD	CHKD
J.P ROH	S.M PARK

1. Style:

This specification describes "7.4X7.4 size of Mini Rotary Dip Switch" which is M series.

1.1 Operating / Storage Temperature Range : -60℃ ~ +125℃

2. Rating:

2.1 None-Switching : 400 mA, DC 42V
2.2 Switching   : 100 mA, DC 42V

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	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)
4-3	Insulation Resistance	250V 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.

5. Mechanical Characteristics

ITEM	DESCRIPTION	TEST CONDITIONS	REQUIREMENTS
5-1	Operation Force	Operating direction shall be clockwise or counter clockwise direction	120gf•cm ±30 max
5-2	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 4-3,4-4 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: -60℃ ±3℃ 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: 125℃ ±2℃ 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℃ ±2℃ 2)Relative humidity: 90~95% 3)Time: 96 hours	1)As shown in item 4-4, 5-1 2)Contact Resistance: 200mΩ max 3)Insulation Resistance: 10 MΩ min

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7. This item is "RoHS" Compliant

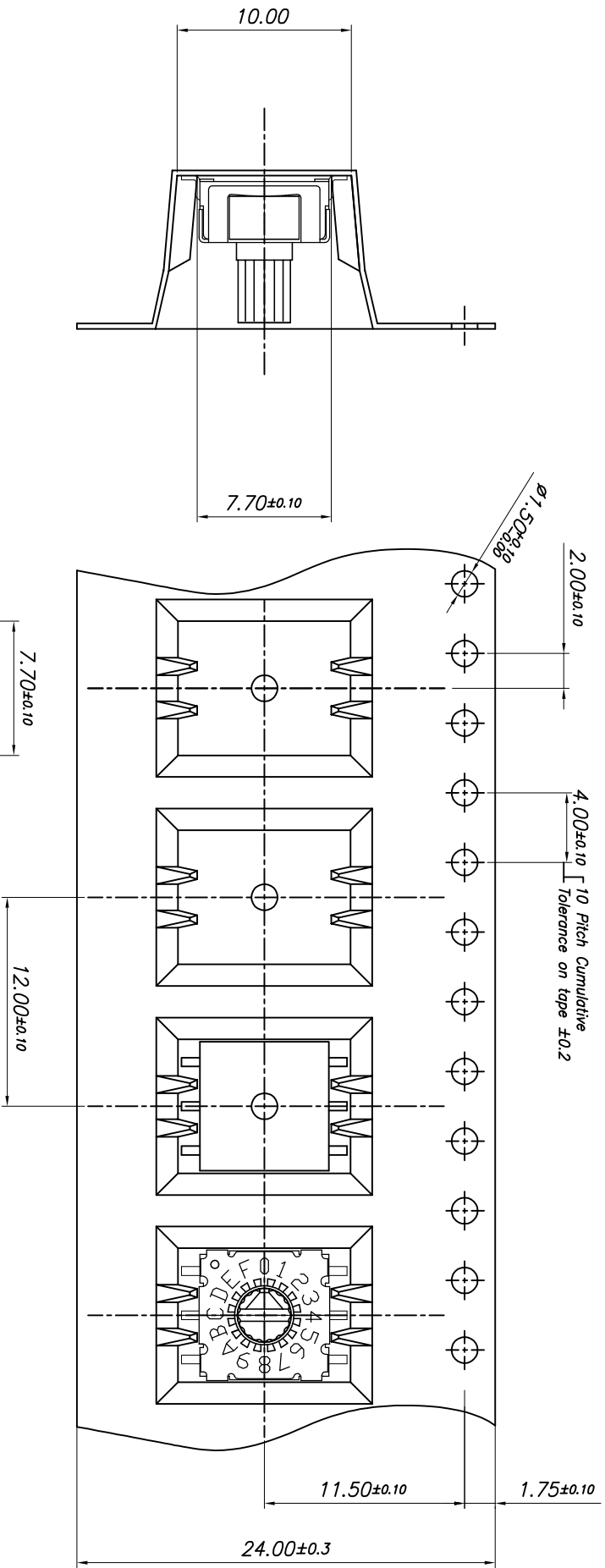**8. Manual Soldering : Max 350℃, 3 sec.**

9. Wave Soldering : Max 280℃, 5 sec.
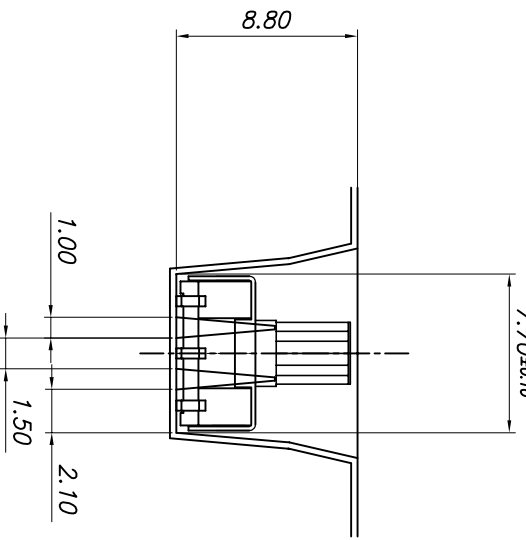
10. Reflow Soldering Conditions: (SMD type only)
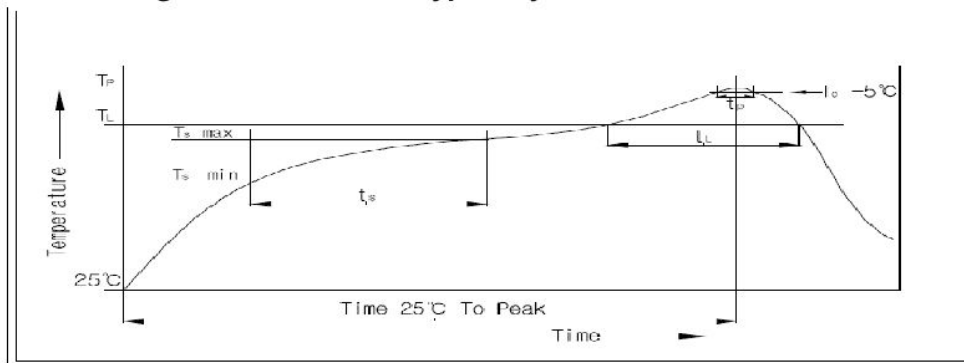
10-1 Condition for Soldering

Profile Feature	Pb-Free Assembly
Average Ramp-UP Rate(Ts max to TP)	3℃/second max
Preheat - Temperature Min(Ts min) - Temperature Max(Ts max) - Time (ts min to ts max)	 150℃ 200℃ 60-180seconds
Time maintained above: - Temperature (TL) - Time (tL)	 217℃ 60-150seconds
Peak/Classification Temperature(TP)	260℃ +0℃/ -5℃
Time within 5℃ of actual Peak Temperature(TP)	Min 30 seconds
Ramp-Down Rate	6℃/sec max
Time 25℃ to Peak Temperature	8 minutes max

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10.00

7.70±0.10

8.80

7.70±0.10

1.00

1.50

2.10

Ø1.50⁺⁰·¹⁰

2.00±0.10

4.00±0.10 ⌐ 10 Pitch Cumulative
Tolerance on tape ±0.2

12.00±0.10

11.50±0.10

1.75±0.10

24.00±0.3

Units(pcs)
1,300

UNLESS OTHERWISE SPECIFIED:
DIMENSIONS ARW MILLIMETERS

TOLERANCE

DECIMALS	ANGULAR
X.X ±0.13	± 1'
X.XX ±0.10	

DO NOT SCALE DRAWING

UNIT   mm

THIRD ANGLE PROJECTION

	SCALE	NON SCALE	TITLE		
	DATE	2009.07.29		CUSTOMER	
H. S LEE	DRAWN		Reel Packing	MODEL NO	
J. S SM	DESIGNED		Rotary Dip Switch		
J. P ROH	CHECKED		SMD(MSSR Type)		
K. I LEE	APPROVED				

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