DATA SHEET

SUNGMUN CODE : GSDC-16S-1(LG)

DESCRIPTION : **MINI ROTARY DIP SWITCH**

SUNGMUN ELECTRONICS CO., LTD.

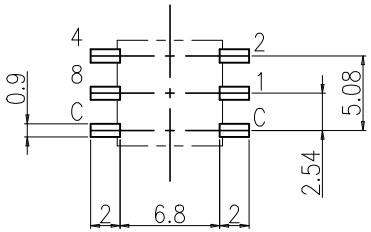
Address 301-302,Bucheon Technopark 345, Seokcheon-ro, Ojeong-gu
Bucheon-si, Gyeonggi-do, Korea
TEL. +82-32-328-1941~4
FAX +82-32-328-1945
E-mail sungmun@sungmun.co.kr
Website www.sungmun.com

SUNGMUN
ELECTRONICS

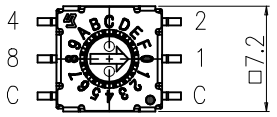
REV NO.	DATE	REVISION	DR	CH	APP
⚠1					

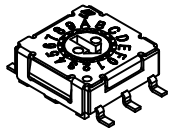
SPECIFICATION

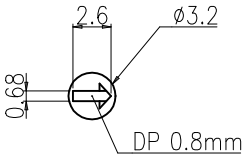
1. Rating : 100mA, DC 5V (Switching)
   100mA, DC 50V (None-Switching)
2. Contact Resistance : 100mΩ Max
3. Insulation Resistance : 100MΩ Min at DC 100V
4. Operating Force : 200gf·cm Max
5. Life cycle : 25,000 steps
6. Sealing : IP67 (Dust & Water proof)
7. Packing : 70pcs Tube / 1,300pcs Reel Packing



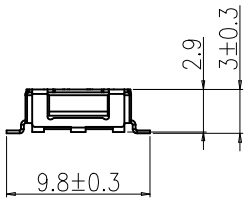
P.C.B DIMENSION (Top View)

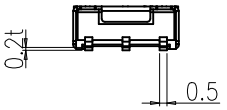


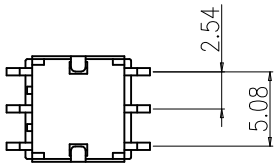




ACTUATOR







Complement Code

	C	1	2	4	8	
0	●	●	●	●	●	0
1	●		●	●	●	1
2	●	●		●	●	2
3	●			●	●	3
4	●	●	●		●	4
5	●		●		●	5
6	●	●			●	6
7	●				●	7
8	●	●	●	●		8
9	●		●	●		9
10	●	●		●		A
11	●			●		B
12	●	●	●			C
13	●		●			D
14	●	●				E
15	●					F

16 Position

DRAW/DESIGNED	CHECKED	APPROVED	G.TOL	TITLE	COMPACT ROTARY DIP SWITCH	
K.N KIM	K.N KIM	W.J LEE	--			
			UNIT	SCALE	MODEL NO.	REV.
Din ISO-2768-1m	2026-10-19	2026-10-19	2026-10-19	mm	N:S	GSDC-16S-1(LG)	

Ranges	0.5~3	3~6	6~30	30~120	120~400
Tolerance	±0.1	±0.1	±0.2	±0.3	±0.5

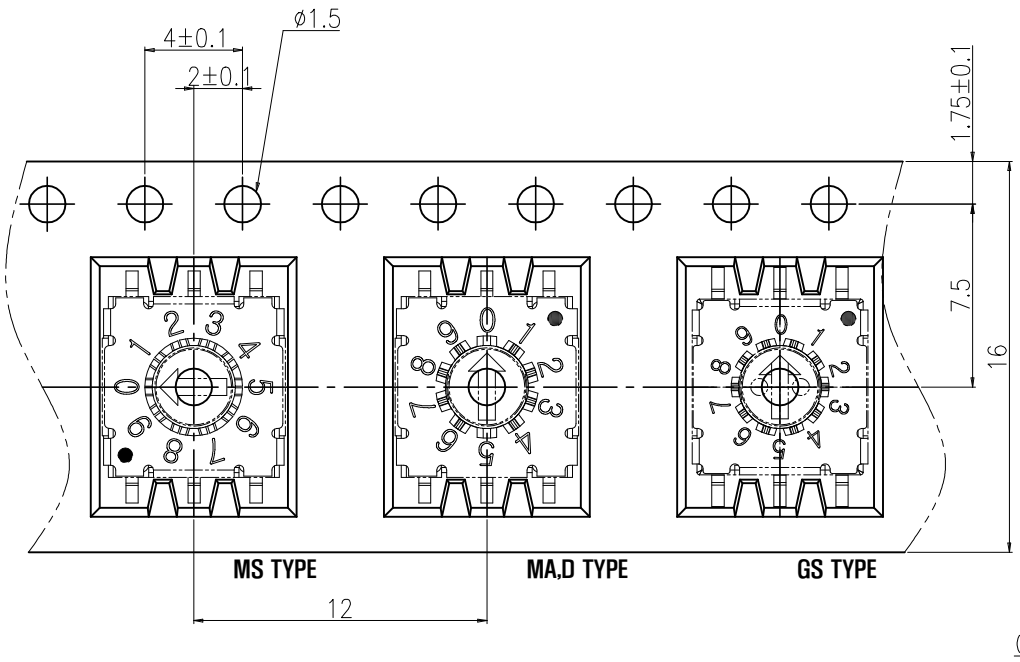
SUNGMUN ELECTRONICS CO.,LTD

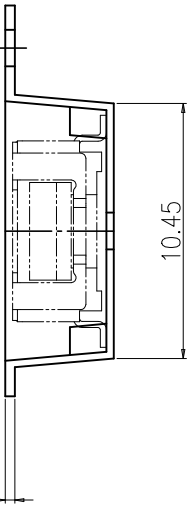
SIZE A4 | DRAW NO. GSDC-16S-1(LG)-01 | 01

본 도면은 당사 재산으로서 허가없이 무단복사/배포 금지함. PROPERTY OF ISSUING ENTITY. CANNOT BE DISTRIBUTED OR REPRODUCED WITHOUT AUTHORIZATION.

SME 210129

REV NO.	DATE	REVISION	DR	CH	APP
⚠1	26.01.14	Recreation of drawings for unification of drawing formats	K.N KIM	K.N KIM	W.J LEE

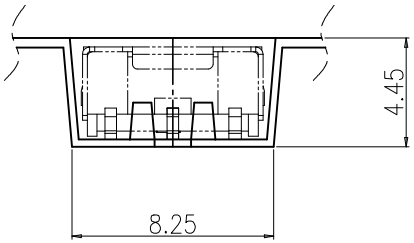




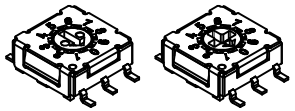
NOTE

1. 제품외관에 유해한 BURR가 없을것.
2. 제품외관에 뒤틀림이나 휨이 없을 것.
3. 크랙이나 갈라짐이 없을것.
4. 지시없는 치수는 2D 또는 3D DATA 참조할것.
5. 지시없는 공차는 일반공차 적용할것.

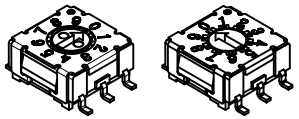
DIRECTION OF FEED



Units(pcs)
1,300



GS D,E ROTOR



MS,A,D D ROTOR

01	REEL PACKING		CONDUCTIVE POLYSTYRENE	BLACK	1,300	-
NO.	DESCRIPTION		MATERIAL	COLOR / FINISH	Q'TY	REMARK
DRAW/DESIGNED	CHECKED	APPROVED	G.TOL	TITLE	MS & GS ROTARY DIP SWITCH REEL PACKING	
J.S YANG	W.J LEE	K.I LEE	±0.3			
			UNIT	SCALE	MODEL NO.	MS,A,D D로터 J,S TYPE GS D,E로터 J,S TYPE	REV.
2019-09-14	2019-09-14	2019-09-14	mm	N:S			
SUNGMUN ELECTRONICS CO.,LTD				SIZE A4	DRAW NO.	CPKTR017-01	01

본 도면은 당사 재산으로서 허가없이 무단복사/배포 금지함. PROPERTY OF ISSUING ENTITY. CANNOT BE DISTRIBUTED OR REPRODUCED WITHOUT AUTHORIZATION.

SME 210129

SUNGMUN ELECTRONICS	G SERIES MINI ROTARY DIP SWITCH SPECIFICATION (7.2X7.2)	Rev. 05 P : 1 / 4

1. Style:

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

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

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	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.	100mΩ max. (initial)
4-3	Insulation Resistance	100V DC	100 ㏁ 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	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

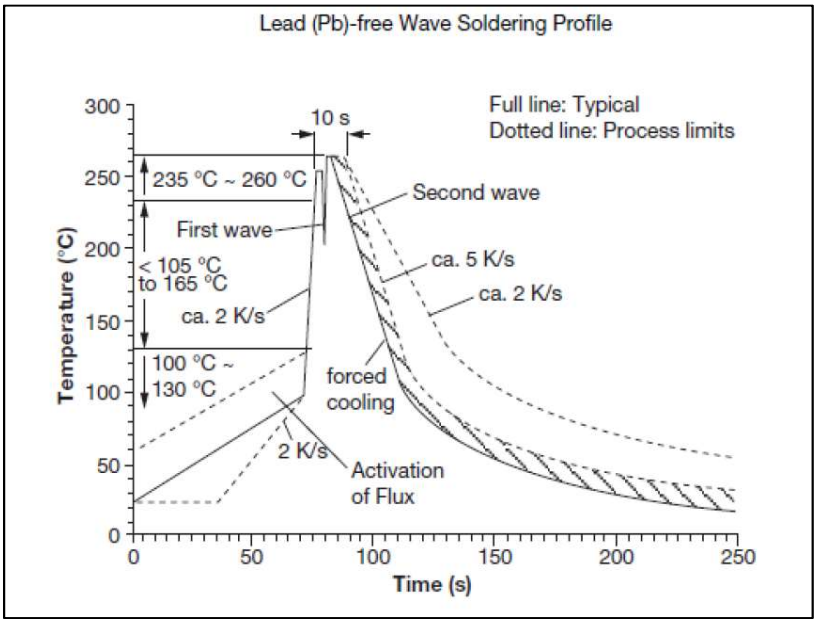
6. Environmental Characteristics

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℃ ±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: 85℃ ±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: 240 hours	1)As shown in item 4-4, 5-1 2)Contact Resistance: 200mΩ max 3)Insulation Resistance: 10 MΩ min

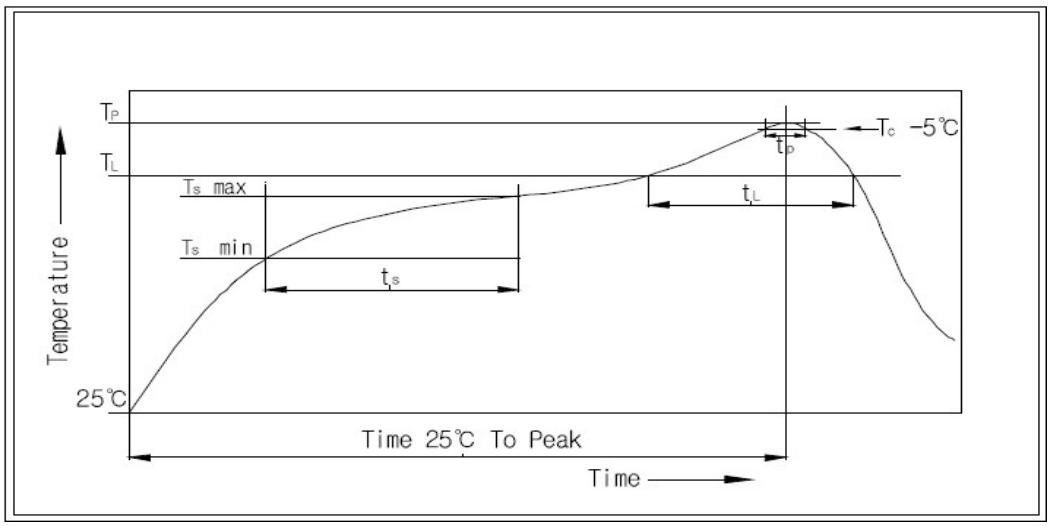
7. This item is "RoHS" Compliant

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

9. Wave Soldering Conditions:



10. Reflow Soldering Conditions:



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)	5~10 seconds
Ramp-Down Rate	6℃/sec max
Time 25℃ to Peak Temperature	8 minutes max