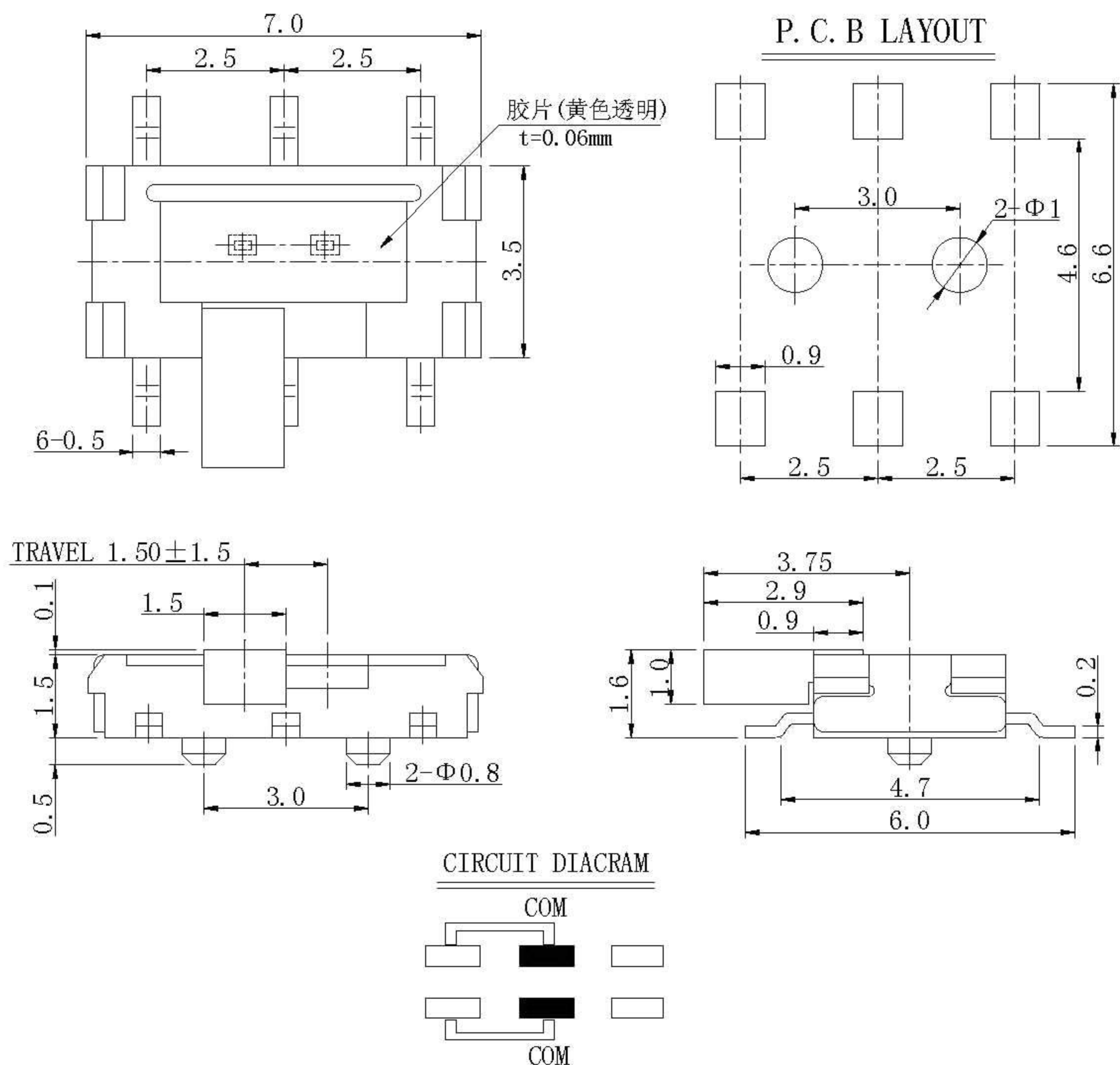


SWEETA PRODUCTS CORPORATION

SWITCH TYPE	SLIDE SWITCHES	MODEL NO.	MSL038-04MY7-22-T
1. Functional spec.			
1.1 Rated Voltage	DC4V	1.6 Free Position	
1.2 Rated Current	0.3 A	1.7 Operating Position	
1.3 Contact Resistance	$\leq 100\text{m}\Omega$ (initial value)	1.8 Position Travel	$1.5 \pm 0.2\text{mm}$
1.4 Operating Force	$200 \pm 100\text{gf}$	1.9 Return Force	
1.5 Bounce Time		1.10	
2. Reliable Rating			
2.1 Mechanical Life	10,000 CYCLES	2.5 Soldering Process	Hand Soldering, Reflow soldering
2.2 Electrical Life	10,000 CYCLES	2.6 Shipping Temper	$-25^{\circ}\text{C} \sim 80^{\circ}\text{C}$
2.3 Insulation Resistance	$\geq 100\text{M}\Omega$ DC100V	2.7 Ambient Humidity Used	$<85\%\text{RH}$
2.4 Withstand Voltage	AC100V 1 minute	2.8	

3. Dimension Drawing



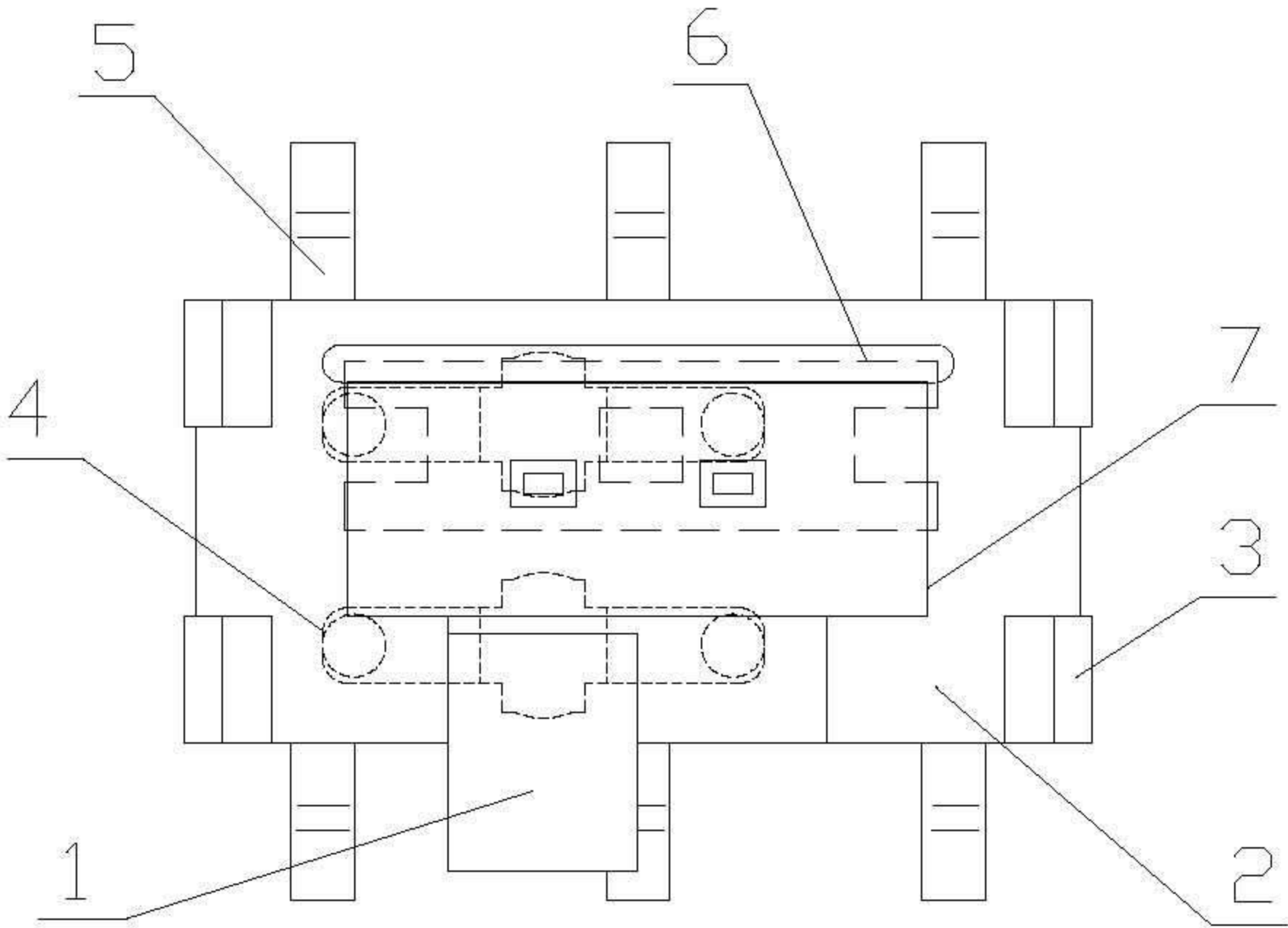
Revision		Description				Date	Revisor
Drawing No.				C/0		Tolerance	±0. 2
Drawing Model.		SPECIFICATION OF STANDARD TYPE				Unit	mm
Prepared	Angel. Lee	Reviewed	Tony. Yang	Approved	Kingsel. Wu	Effective date	20080201

喜威達企業股份有限公司

SWEETA PRODUCTS CORPORATION

SERIES		SLIDE SWITCHES(SLS038)		Issuance date :		20060801	
Document No.		DIC/PE038-010		Edition	C	Page	Page1 of 4
NO.	Part Name	Q' TY	Generic Class		SGS report No.		
1	Stem	1	Nylon		Attached SGS report		
2	Case	1	SUS301		Attached SGS report		
3	Base	1	Nylon		Attached SGS report		
4	Spring Plate	2	C5210		Attached SGS report		
5	Terminal	6	C2680		Attached SGS report		
6	Fixed Rod	1	SUS301		Attached SGS report		
7	Adhesive Tape	1	POLYIMIDE		Attached SGS report		

Structure chart:



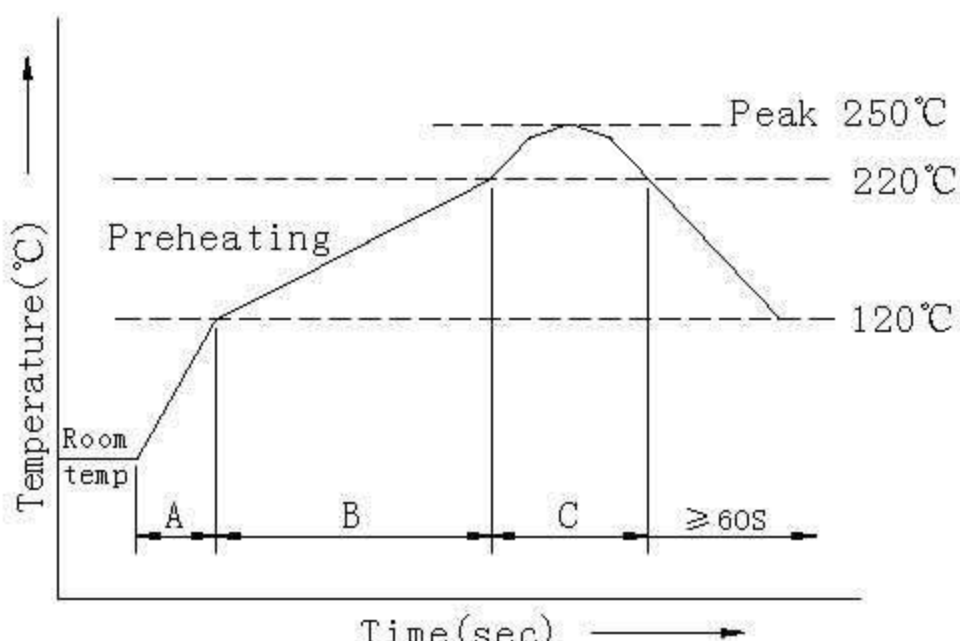
喜威達企業股份有限公司

SWEETA PRODUCTS CORPORATION

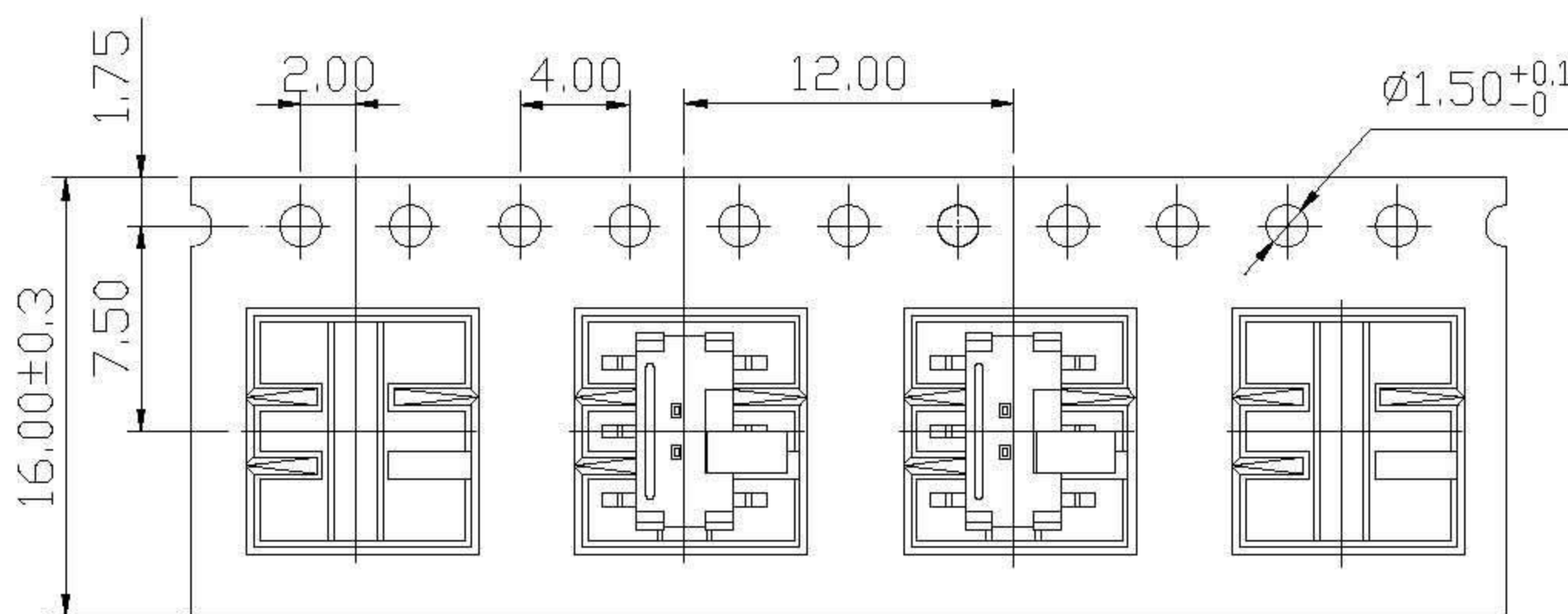
SERIES		SLIDE SWITCHES(MSL038)		Issuance date :		20060801		
Document No.		DIC/PE038-010		Edition		C	Page	Page 2 of 4
1、General :								
1.1 Switch rating:		DC 4V, 0. 3A						
1.2Operating temperature range		-25℃～80℃						
1.3 Preservative temperature range		-30℃～80℃						
1.4 Storage humidity range		<85%RH						
2.Performance								
2.1 Electrical characteristics								
Items		Test conditions					Criteria	
2.1.1	Contact resistance	Applying a static load twice the operating force to the stem, measurements shall be made between the terminals. Measurement shall be made with a contact resistance meter for 2m Ω precision under the condition which a voltage of DC 5V and a current of 0.1A shall be applied between the terminals.					Refer to individual product drawing.	
2.1.2	Insulation resistance	Spec. voltage (Refer to the 2.3 item of spec. drawing) is applied between each pair of terminals and between the terminal and the metal frame for one minute. Measurement shall be made with a test instrument of insulation resistance under the condition Spec. voltage is applied between the terminals .					Refer to individual product drawing.	
2.1.3	Dielectric withstand in voltage	Spec. voltage (Refer to the 2.4 item of spec. drawing)shall be applied across terminals and frame for one minute.					There shall be no breakdown	
3.Mechanical characteristics								
3.1	Operation force	Placing the switch such that the direction of switch operation is vertical, and then gradually increasing the load applied to the stem, the maximum load for the stem to come to operating position shall be measured.					Refer to individual product drawing.	
3.2	Terminal strength	A static load of 500gf Max shall be applied to the tip of the terminal for 30 sec. in any direction.					Electrical characteristics shall be satisfied without damage or excessive looseness of terminals.	
3.3	Displacement of actuator(Knob)	A static load of 500gf Max shall be applied to the terminal for 15 Sec. In any direction.						

喜威達企業股份有限公司

SWEETA PRODUCTS CORPORATION

SERIES		SLIDE SWITCHES(MSL038)		Issuance date :		20060801																															
Document No.		DIC/PE038-010		Edition		C	Page Page3 of 4																														
4. soldering characteristics																																					
Items		Test conditions				Criteria																															
4.1	Hand soldering	Use a soldering iron of 30 watts, controlled at 380 °C approximately 3 seconds 1time while applying solder.				A new uniform coating of solder shall cover a minimum of 90% of the surface being immersed. There shall be no defects in appearance or in the mechanical functions.																															
4.2	Reflow soldering	<p>When applying reflow soldering, the peak temperature of the reflow Oven should be set to 250 °C max. Condition for soldering (Reflow & Non-washable Type) Temperature Profile:</p> <div><table><thead><tr><th></th><th>Components size</th><th></th><th>Unit</th></tr></thead><tbody><tr><td>A</td><td>Temp.rise gradient</td><td>40S</td><td>sec</td></tr><tr><td rowspan="2">B</td><td>Heating time</td><td>60-120S</td><td>sec</td></tr><tr><td>Heating temperature</td><td>120-220°C</td><td>°C</td></tr><tr><td rowspan="2">C</td><td>Time over 220°C</td><td>60-90S</td><td>sec</td></tr><tr><td>Peak temperature</td><td>250</td><td>°C</td></tr><tr><td></td><td>Peak-temp.hold time</td><td>moment</td><td>sec</td></tr><tr><td colspan="2">Soldering</td><td>1</td><td>times</td></tr></tbody></table></div>					Components size		Unit	A	Temp.rise gradient	40S	sec	B	Heating time	60-120S	sec	Heating temperature	120-220°C	°C	C	Time over 220°C	60-90S	sec	Peak temperature	250	°C		Peak-temp.hold time	moment	sec	Soldering		1	times	There shall be no defects in appearance or in the mechanical functions.	
	Components size		Unit																																		
A	Temp.rise gradient	40S	sec																																		
B	Heating time	60-120S	sec																																		
	Heating temperature	120-220°C	°C																																		
C	Time over 220°C	60-90S	sec																																		
	Peak temperature	250	°C																																		
	Peak-temp.hold time	moment	sec																																		
Soldering		1	times																																		
5. Durability characteristic:																																					
5.1	Mechanical life	(1) Without loading (2) Operating speed : 15 cycles/minute (3) Push force : maximum value of operating force twice (4) Life: 10,000 cycles				After test: (1)Contact resistance: 1 ohm Max. (2)Bounce: 5m sec. Max. (3)Withstand voltage: AC100V, 1 minute (4)Operating force: 30% of initial value (5)There shall be no defects in appearance or in the mechanical functions.																															
5.2	Electrical life	(1) which the load of 0.3A DC 4V (2) Operating speed : 15 cycles/minute (3) Push force : maximum value of operating force twice (4) Life: 10,000cycles																																			

喜威達企業股份有限公司
SWEETA PRODUCTS CORPORATION

SERIES	SLIDE SWITCHES(MSL038)	Issuance date :		20060801	
Document No.	DIC/PE038-010	Edition	C	Page	Page4 of 4
6. Quality records of delivered goods					
Items		Test conditions		Criteria	
6.1	Packing	<p>(1) The products are packed in the taping packaging.</p> <p>(2) The number of the reels:</p> <p>(3) Five(5) reels at maximum shall be packed in a package.</p> <p>(4) The number of the switches:</p> <p>(5) 1,500 switches shall be packed in a reel.</p> <p>(6) It should be noted that we Regard two cartons mentioned above as on package for export.</p> <p>(7) Tape form and dimensions:</p>		<p>There shall be no defects in appearance or in the mechanical functions in the process of shipping.</p>	
		 <p>The drawing shows a top view of a slide switch tape. It is a rectangular strip with a total width of 16.00 ± 0.3 and a total length of 12.00. The tape has a series of circular holes along its length, with a pitch of 2.00 between the first two holes and 4.00 between the next two. The diameter of the holes is specified as Ø1.50 +0.1/-0. The tape is shown with its internal structure, including a central channel and side rails. The dimensions 1.75, 7.50, and 12.00 are indicated for different sections of the tape.</p>			
7. Special Requirements					
7.1 Hazardous Substance Management: Follow environmental requirements; Hazardous Substance DIC/WI/G506.					
8. Application Notes:					
<p>8.1 Avoid storing the products in a place at high temperature, high humidity and in corrosive gases.</p> <p>8.2 Avoid excessive force when inserting into P.C.B so as to avoid deformation of terminals.</p> <p>8.3 Influence for the characteristics by something dust or foreign articles. There is a possibility something dust or foreign articles put into click of brush plate and it should cause abnormal rotation feeling.</p>					