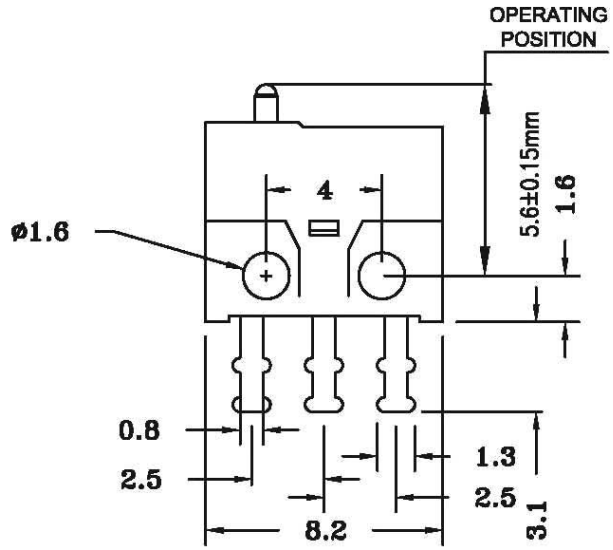
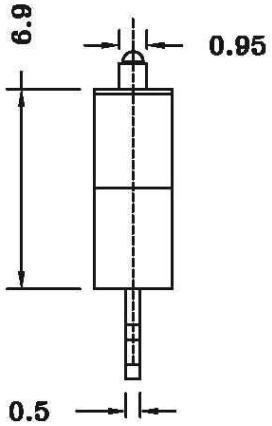
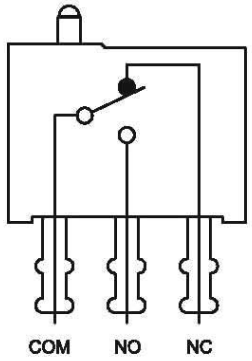
LTR	DESCRIPTION	DATE	CHANGE	APPL'
1				
2				
3				

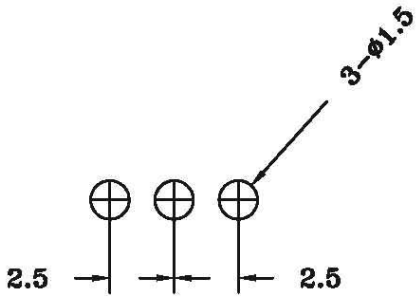
1. Rating: 30VDC 500mA.
2. Operating force: 120gf.
3. Contact resistance:100m ohm(Max).
4. Operating life: 300,000 cycles.





Pcb Mounting Dimension





Note:
1.Gerneral tolerances are +/- 0.2mm

P/N:5-300-0009

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

SINGATURES	DATE
DRW Jase	11/01/26
DEN Jase	11/01/26
CHK Gregg	11/02/09
APL Jerry	11/02/09

PRODUCT: Miniature Micro Switch
DWG NO: SWSSM-002
SCALE:
REV:
#: MAJOR DIMENSION
%: ORDER DIMENSION
&: C.P.K
ALL DIMENSIONS: ARE IN MILLIMETER
TOLENRANCES CLASS:
SHEET: 01

1. General

SWITCH SPECIFICATIONS	
Switch Action	Push on Type SPSD
Electrical Ratings	500mA @30Vdc
Operating Life	300,000 Cycle Min
Operating Temperature range	-25℃~70℃
Appearance and dimensions	See outside drawing page
Standard conditions :Unless otherwise specified, the test and measurements shell be carried out as follows	
Ambient temperature	15~35℃
Relative humidity	25~85% RH
Air pressure	86-106Kpa(860-1060mbar)

2. Performance

2.1Electrical characteristics

NO	ITEM	TEST CONDITIONS	PERFORMANCE
2.1.1	Contact Resistance	Applying a static load twice the actuating 50g Max force to the center of the stem, measurements shall be made with low-current contact resistance meter.	100min ohm Max(initial)
2.1.2	Insulation Resistance	Measurements shall be made following application of DC 500 V potential across terminals and across terminals and frame for one minute.	100MΩ Min
2.1.3	Dielectric with standing Voltage	AC 250 V (50Hz or 60Hz) shall be applied across terminals and across terminals and frame for one minute.	There shell be no breakdown

2.2 Mechanical characteristics

NO	ITEM	TEST CONDITIONS	PERFORMANCE
2.2.1	Operating force	Placing the switch such that the direction of switch operation is vertical, the force to withstand a pull applied opposite to the direction of stem operation.	120gf Max
2.2.2	Operating Position	Placing the switch such that direction of switch operation is vertical and then applying a static load twice the actuating force to the center of the stem, the travel distance for the stem to come to on position shall be measured.	5.6±0.15mm
2.2.3	Vibration test	1. Amplitude:1.5mm 2. Sweep rate:10-55-10Hz for 1 minute 3. Sweep method: Logarithmic frequency sweep rate 4. vibration direction :X.Y.Z(3directions) 5. Time :Each direction 2 hours(total 6 hours)	No 2.1and2.2.1to 2.2.2 shell be satisfied

2.3 Endurance

Environmental Test	
Item	Test Condition
Resistibility to heat	Placed in a chamber at 75±2℃ for 96 hours and then cooled in normal temperature and humidity for an hour
Resistibility to cold	Placed in a chamber at -40±2℃for 96 hours and then cooled in normal temperature and humidity for an hour
Resistibility to humdity	Placed in a chamber at 40±2℃ and 90~95% RH for 96 hours and then cooled in normal temperature and humidity for an hour
Durability	
Item	Test Condition
Endurance with load	300,000 cycles operations at rate of 15~20 cycle per 1 minute with rating
Vibration proof	Measured after the switch is fixed in a chamber under below condition
Vibration frequency range	10~55Hz
Total amplitude	1.5mm
Sweep ratio	10~55~10(Hz)approx 1min
Method of changing the sweep vibration of frequency	Logic or straight line
Direction of Vibration	Three vertical directions including the control shaft
Test time	Each 2 hours(total 6 hours)

3. SOLDERING

Item	Soldering condition
Manual	300℃±5℃
Wave Soldering	260℃±5℃ About 3 seconds

1) After switches were soldered , please be careful not clean with solvent.
2) In the case of using soldering iron ,soldering conditions shell be 350℃ max and 3 sec max
3) After switches were soldered , please be careful not to load the actuator of switches

4. Materials

Materials list			
Item	Description	Material	Remark
1	Terminals	Brass	Ag-Plate
2	Body	PBT+15%Fib	
3	Cover	POM	
4	Button	POM	
5	Contact	BeCu with Ag	

5.Packaging unit

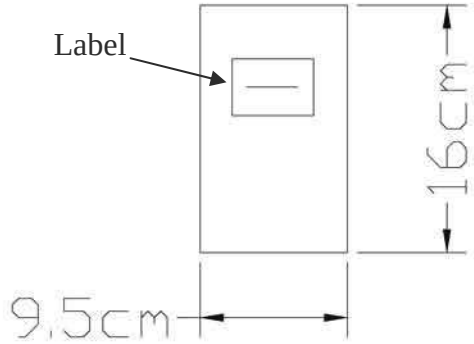
5.1.1The capacity of packing carton

Carton type		Carton Dimension
32k Pcs	Carton box 16 packing carton at most	41cm X 24.5cm X 33cm
20K Pcs	Carton box 10 packing carton at most	33.5cm X 25cm X 26cm
10K Pcs	Carton box 5 packing carton at most	28.5cm X 19cm X 17cm

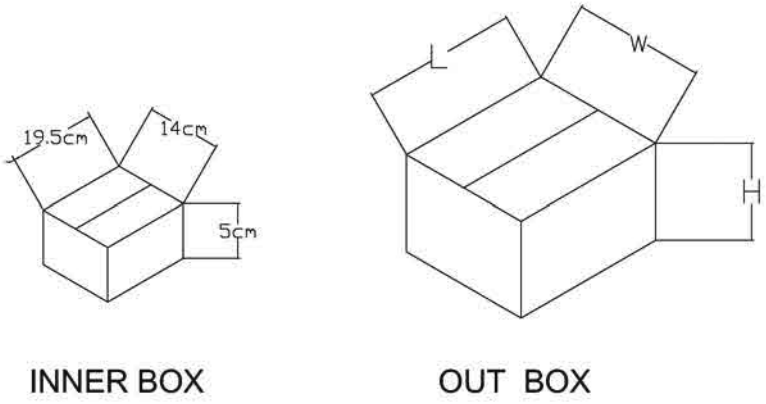
5.1.2 Every packing carton contains 2000pcs goods at most。

5.1.3 Every plastic bag contains 500pcs goods。

5.2 The shape and dimension of Plastic Bag



5.3 The shape and dimension of packing carton



INNER BOX OUT BOX

6.Handling precautions

6.1.Following the soldering process，do not try to clean the switch with a solvent or like
6.2.Safeguard the switch assembly against flux penetration
6.3.Do not push the actuator strong to prevent the actuator bending
6.4.This switch is RoHS compliant