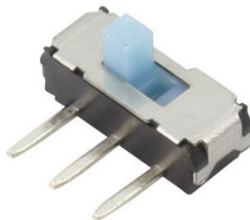


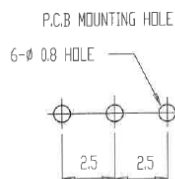
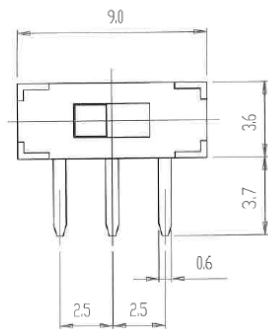
Item no.: 1565760

# Data Sheet

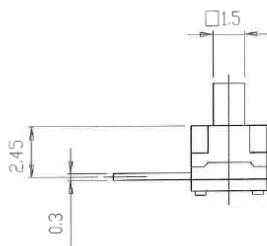
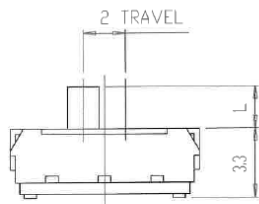
Slide switch 6 V/DC 0.3 A 2 x off/on 1 pc.



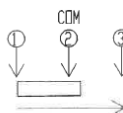
Drawing:



- 1. RATING: DC 6V 0.3A
- 2.CIRCUIT: 1C - 2P
- 3.TIMING: NON - SHORTING
- 4.TRAVEL: 2MM
- 5.OPERATING FORCE: 200 ± 100gf
- 6.CONTACT RESIS: 70mm ohm max
- 7.OPERATING LIFE: 10,000 cycles
- 8.TOLERANCE: ±0.3



CIRCUITE DIAGRAM



| MODEL     | L (mm) |
|-----------|--------|
| YSS-1203  | 2.0    |
| YSS-1203A | 4.0    |
| YSS-1203B | 6.0    |

## Data Sheet

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### Technical data

#### 1. GENERAL

- 1-1 Switch rating : DC 6V 0.3A Max
- 1-2 Operation temperature range :  $-10^{\circ}\text{C} \sim 60^{\circ}\text{C}$
- 1-3 Appearance and dimensions : See outside drawing page
- 1-4 Standard conditions : Unless otherwise specified, the test and measurements shall be carried out as follows.

Ambient temperature :  $5^{\circ}\text{C} \sim 35^{\circ}\text{C}$

Relative humidity : 45 ~ 85% RH

Air pressure : 86 ~ 106kPa (860 ~ 1060mbar)

However, if doubt arises on the decision based in the measured values under the above-mentioned conditions, the following conditions shall be employed

Ambient temperature :  $20 \pm 2^{\circ}\text{C}$

Relative humidity :  $65 \pm 5\%$  RH

Air pressure : 86 ~ 106kPa (860 ~ 1060mbar)

#### 2. PERFORMANCE

##### 2-1 Electrical characteristics

| No.   | ITEM                            | TEST CONDITIONS                                                                                                                                            | PERFORMANCE                 |
|-------|---------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------|
| 2.1.1 | Contact Resistance              | Applying a static load twice the actuating force to the center of the stem, measurements shall be made with a 1KHz small-current contact resistance meter. | 70m $\Omega$ Max            |
| 2.1.2 | Insulation Resistance           | Measurements shall be made following application of DC 500V potential across terminals and across terminals and frame for one minute.                      | 100M $\Omega$ Min           |
| 2.1.3 | Dielectric Withstanding Voltage | AC 250V(50Hz or 60Hz) shall be applied across terminals and across terminals and frame for one minute.                                                     | There shall be no breakdown |

## Data Sheet

### 2-2 Mechanical characteristics

| No.   | ITEM                | TEST CONDITIONS                                                                                                                                                                                                              | PERFORMANCE                                                                                                                                                                             |
|-------|---------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 2.2.1 | Operation Force     | Gradually increasing the load applied to the center of the stem, the maximum load required for the stem to come to a stop shall be measured.                                                                                 | Details are given in the assembly drawings.                                                                                                                                             |
| 2.2.2 | Travel              | Applying a static load twice the actuating force to the center of the stem. The travel distance for the stem to come to a stop shall be measured.                                                                            | Details are given in the assembly drawings.                                                                                                                                             |
| 2.2.3 | Stop Strength       | A static load of 1kgf shall be applied in the direction of stem operation for a period of 15seconds.                                                                                                                         | No damage (Electrical and mechanical)                                                                                                                                                   |
| 2.2.4 | Stem Strength       | The maximum force to withstand a pull applied opposite to the direction of stem operation shall be measured.                                                                                                                 | 1 kgf min                                                                                                                                                                               |
| 2.2.5 | Terminal Strength   | A force of 300gf being applied in one direction on the tip of the terminal for minute and only one time to each terminal.                                                                                                    | The terminal may be deformed. But shall not sustain any trouble such as deviation and breaking of terminal and breaking of insulation material. Electreca performance shall be assured. |
| 2.2.6 | Vibration Test      | 1) Amplitude : 1.5mm<br>2) Sweep rate : 10-55-10Hz for 1 minute.<br>3) Sweep method : Logarithmic frequency sweep rate.<br>4) Vibration direction : X,Y,Z (3 directions)<br>5) Time : Each direction 2 hours (Total 6 hours) | No 2.1 and 2.2.1 to 2.2.2 shall be satisfied                                                                                                                                            |
| 2.2.7 | Soldering Heat Test | Soldering area : t/2 of P.W.B thickness<br>(P.W.B : t = 1.6 )<br>Soldering temperature : 250±5°C<br>Soldering time : 5±1sec                                                                                                  | No damage (Electrical and mechanical)                                                                                                                                                   |

## Data Sheet

### 2-3 Climatic characteristics

| No.   | ITEM                | TEST CONDITIONS                                                                                                                                                                          | PERFORMANCE                                                                                                                                                                                                                                                                                                |
|-------|---------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 2.3.1 | Cold test           | 1) Temperature : $-20\pm 2^{\circ}\text{C}$<br>2) Duration of test : 96 hours<br>3) Take off a drop water<br>4) Standard condition after test : 1 hour                                   | Contact resistance : $100\text{m}\Omega$ Max<br>Insulation resistance : $10\text{M}\Omega$ Min<br>Withstanding voltage : 500V AC, 1 minute<br>Insulation unbroken<br>Operating force : Within $+10\%$ , $-30\%$ of specification<br>There shall be no defects in appearance or in the mechanical function. |
| 2.3.2 | Heat test           | 1) Temperature : $80\pm 2^{\circ}\text{C}$<br>2) Duration of test : 96 hours<br>3) Standard condition after test : 1 hour                                                                |                                                                                                                                                                                                                                                                                                            |
| 2.3.3 | Humidity test       | 1) Temperature : $40\pm 2^{\circ}\text{C}$<br>2) Relative humidity : 90 ~ 95%<br>3) Duration of test : 96 hours<br>4) Take off a drop water<br>5) Standard condition after test : 1 hour |                                                                                                                                                                                                                                                                                                            |
| 2.3.4 | Operating life test | 1) Without load<br>2) Operation speed : 15 ~ 20 cycles / minute<br>3) Depression : Twice the operating force<br>4) Cycles of operation : 10,000 cycles                                   |                                                                                                                                                                                                                                                                                                            |

### 3. SOLDERING

#### 3-1 Auto soldering conditions

| ITEM                  | CONDITIONS                                                            |
|-----------------------|-----------------------------------------------------------------------|
| Preheat temperature   | 100°C Max ( Environmental temperature of soldering surface of P.W.B ) |
| Preheat time          | 45sec Max                                                             |
| Area of flux          | 1/2 Max of P.W.B thickness                                            |
| Temperature of solder | 255°C Max                                                             |
| Time of immersion     | Within 5sec                                                           |
| Soldering number      | Within 2times ( But should bring down heat of the first soldering )   |
| Printed wiring board  | Single sided copper-clad laminates.                                   |

- 1) After switches were soldered, please be careful not clean switches with solvent.
- 2) In the case of using soldering iron, soldering conditions shall be 280°C max and 3sec max.
- 3) After switches were soldered, please be careful not to load the knobs of switches.

#### 3-2 Manual soldering conditions

| ITEM                  | CONDITIONS                 |
|-----------------------|----------------------------|
| Soldering temperature | $300\pm 5^{\circ}\text{C}$ |
| Time                  | 5sec Max.                  |