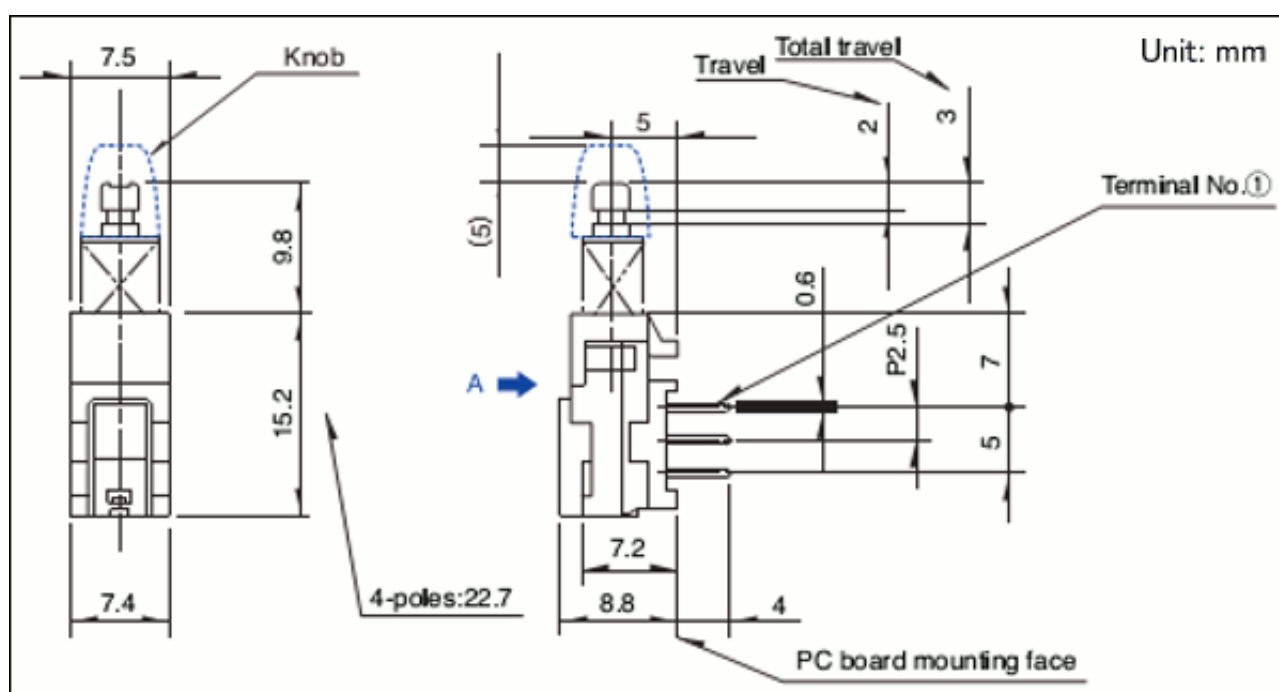


## 2.0mm-travel Horizontal Type SPUJ Series

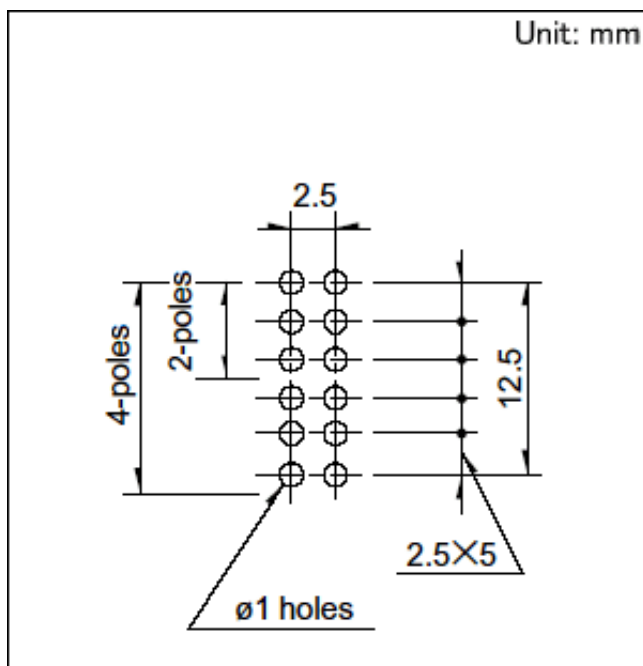
|                                       |                                                         |                            |     |
|---------------------------------------|---------------------------------------------------------|----------------------------|-----|
| Part number                           |                                                         | <b>SPUJ191500</b>          |     |
| Changeover timing                     |                                                         | Non shorting               |     |
| Travel                                |                                                         | 2mm                        |     |
| Total travel                          |                                                         | 3mm                        |     |
| Operating force                       |                                                         | 1.5±1N                     |     |
| Mounting method                       |                                                         | PC board                   |     |
| Poles                                 |                                                         | 2                          |     |
| Operation                             |                                                         | Momentary                  |     |
| Terminal type                         |                                                         | Straight                   |     |
| Operating temperature range           |                                                         | -10℃ to +60℃               |     |
| Rating (max.)/(min.) (Resistive load) |                                                         | 0.1A 30V DC/50μA 3V DC     |     |
| Electrical performance                | Contact resistance (Initial performance/After lifetime) | 20mΩ max./40mΩ max.        |     |
|                                       | Insulation resistance                                   | 100MΩ min. 500V DC         |     |
|                                       | Voltage proof                                           | 500V AC for 1 minute       |     |
| Mechanical performance                | Terminal strength                                       | 5N for 1 minute            |     |
|                                       | Actuator strength                                       | Operating direction        | 50N |
|                                       |                                                         | Pulling direction          | 50N |
| Durability                            | Operating life without load                             | 10,000 cycles<br>40mΩ max. |     |
|                                       | Operating life with load (at max. rated                 | 10,000 cycles              |     |

|                           |           |                            |
|---------------------------|-----------|----------------------------|
|                           | load)     | 40mΩ max.                  |
| Environmental performance | Cold      | -20±2℃ for 96h             |
|                           | Dry heat  | 85±2℃ for 96h              |
|                           | Damp heat | 40±2℃, 90 to 95%RH for 96h |
| Minimum order unit (pcs.) | Japan     | 100                        |
|                           | Export    | 3,000                      |

## Dimensions

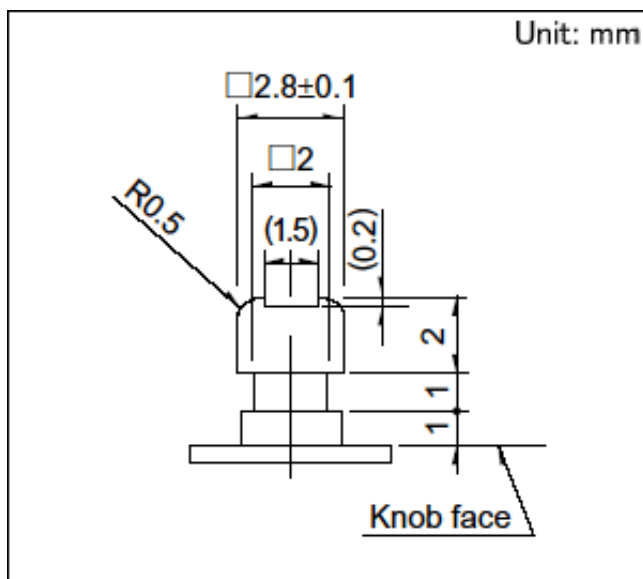


## Mounting Hole Dimensions

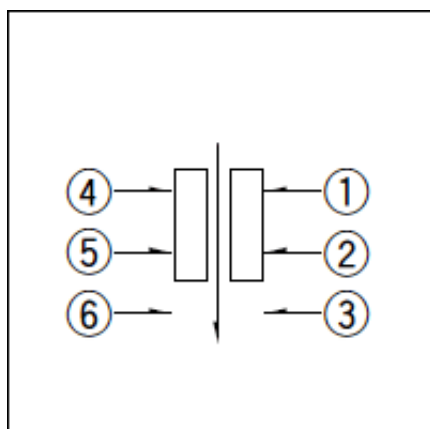


Viewed from direction A in the dimensions.

### Actuator Configuration at Front Edge



### Circuit Diagram



## Packing Specifications

### Bulk

|                                  |                         |       |
|----------------------------------|-------------------------|-------|
| Number of packages (pcs.)        | 1 case / Japan          | 600   |
|                                  | 1 case / export packing | 3,000 |
| Export package measurements (mm) | 400×270×290             |       |

## Soldering Conditions

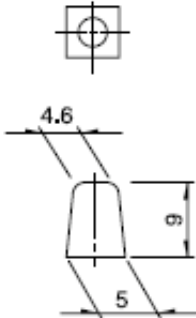
### Reference for Dip Soldering

|               |                        |        |
|---------------|------------------------|--------|
| Items         | Preheating temperature | -      |
|               | Preheating time        | -      |
| Dip soldering | Soldering temperature  | 260±5℃ |
|               | Duration of immersion  | 5±1s   |

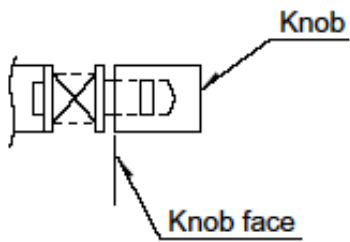
### Reference for Hand Soldering

|                       |        |
|-----------------------|--------|
| Soldering temperature | 300±5℃ |
| Soldering time        | 3+1/0s |

## Attached Parts

| Knob outline drawing (Unit :mm)                                                     | Color | Model    |
|-------------------------------------------------------------------------------------|-------|----------|
|  | Black | UJ206022 |

We recommend the use of adhesive to secure the knob when mounting onto switches.



Notes are common to this series/models.

1. This site catalog shows only outline specifications. When using the products, please obtain formal specifications for supply.
2. Please place purchase orders per minimum order unit (integer).
3. Products other than those listed in the above chart are also available. Please contact us for details.
4. Please contact us for automotive use.