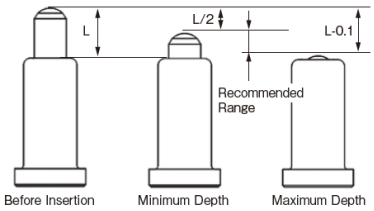
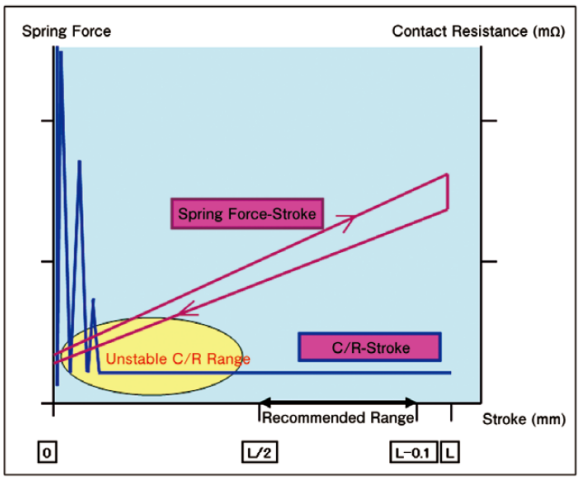
## Product Guide Line

### ■ Working Height Tolerance (in the direction of pin stroke)

The recommended working height, into which the pin is compressed, is as follows.



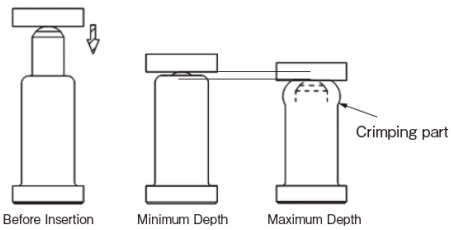




#### ■ Minimum Depth

Be sure to insert more than half of the projecting portion (L mm). If it is not inserted deeply enough, the contact resistance may be unstable.

#### ■ Maximum Depth

Be careful not to over insert the pin. The shoulder portion of the tube may become damaged, and cause the pin to not decompress.

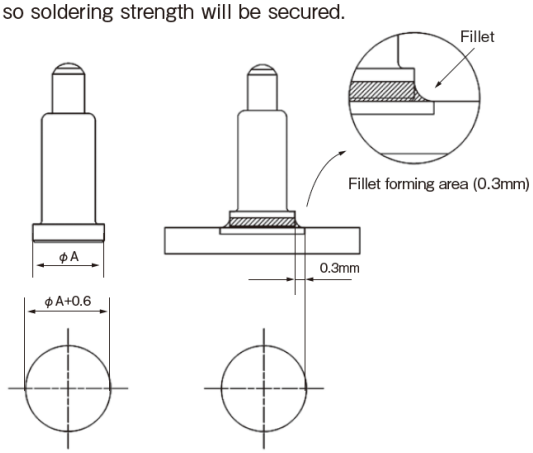



### ■ Recommended Land Pattern

The specifications of the recommended land pattern are as follows.

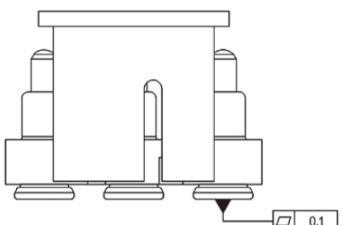
#### ■ Recommended Land Pattern

Leave sufficient space to permit solder fillet formation, so soldering strength will be secured.



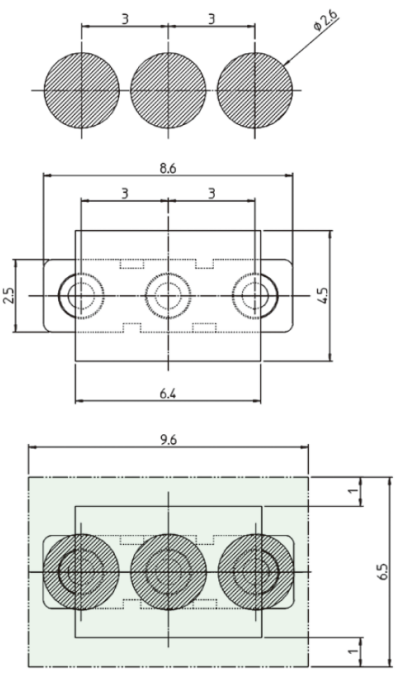

#### ■ Solder Paste Thickness

The co-planarity of the product is max. 0.1.
Make sure that the solder paste thickness is at least 0.1mm.




#### ■ Mounting Area

The product comes with pick and place caps. Please be sure to spare mounting area wide enough to fit the outlines of the caps. This will be needed in order to permit removal of caps, and to prevent interference between parts that align next to each other.



## Product Guide Line

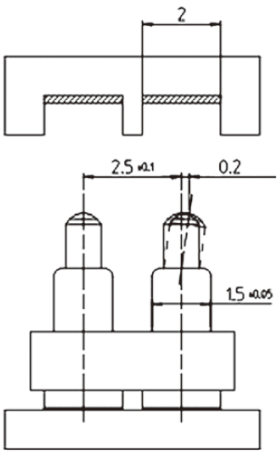
## ■ Counterpart Terminal (Female Side Connector)

The recommended counterpart terminal is described below.

### ■ Outline of Counterpart Terminal

Be sure to use a counterpart terminal that is ø2mm or larger, in order to consider the misalignment of contacts, mounting misalignment, and misalignment after mating.

Misalignment of Contacts = Product's Pitch Tolerance (0.1mm) + Pin Deflection (0.2mm) + Part's Tolerance (0.05mm)
Mounting Misalignment = 0.3mm
Misalignment after Mating = 0.3mm




### ■ Materials, Roughness, and Hardness of the Counterpart Terminal

The recommended material of the counterpart terminal is brass plate, copper alloy plate, or substrate.
The contact surface must be flat, smooth, and gold-plated.

### ■ Plating for the Counterpart Terminal

The recommended plating for the counterpart terminal is "Gold plating of at least 1µm over Nickel underplate," which is equivalent to the plating applied for pins of SPC products.

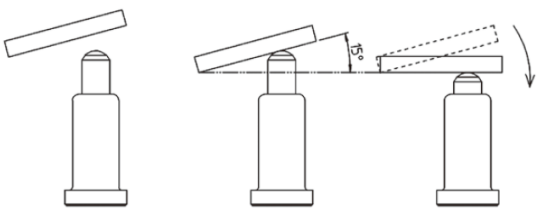
## ■ How to Mate the Pin with the Counterpart Terminal

Please note the following when mating the SPC with counterpart terminal.

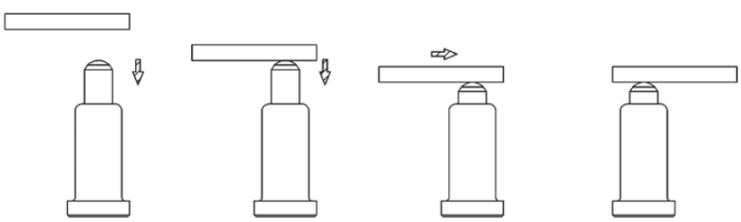
### ■ Method of Fitting

Be sure to fit the pin into the counterpart terminal vertically.
If fitting from the lateral side of the SPC, the SPC may become deformed and cause poor contact resistance.

When fitting from an oblique angle, make sure that the angle between the two is smaller than 15 degrees at the time of contact. Be sure not to repeat mating more than 2,000 times in this way.




Do not slide the counterpart terminal on the pin. The plating on the top end of the pin may scratch off, and this will lead to poor contact resistance.



### ■ Allowable Angle with the Counterpart Terminal

Be sure to keep the angle between the counterpart terminal and SPC from 85 degrees to 95 degrees (within the range of ± 5 degrees vertically.