

## 1. Scope

This specification is written based on the supposition that the receptacle is mounted on PCB (Hard PCB) and the plug is mounted on FPC. In the case of the receptacle is mounted on FPC and the plug is mounted on PCB (Hard PCB) is also covered. Receptacle contains formable terminal. Please pay attention to un-mating process of connectors if you mount Receptacle on FPC.

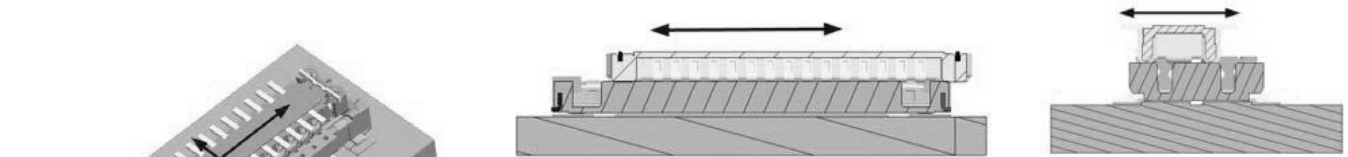
## 2. Mating

### 2.1 How to mate ( Insertion )

After positioning correctly for mating ,then the distance between PCB and FPC is about 1.1mm, insert the Plug to the receptacle in parallel with each other.

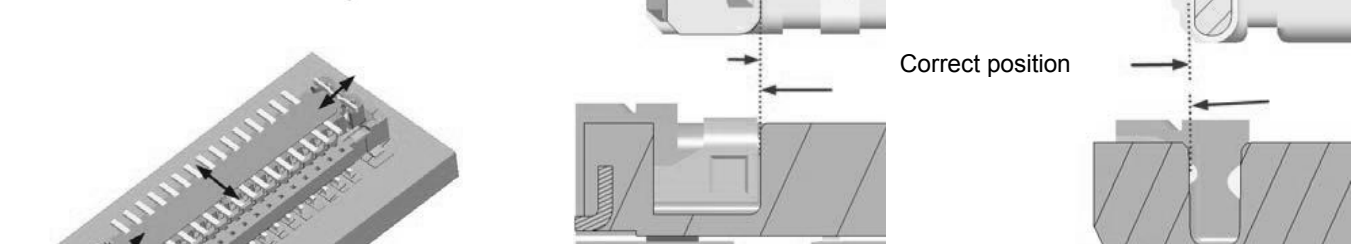
Please find correct position at inside wall of receptacle and inside wall of plug.

#### STEP 1

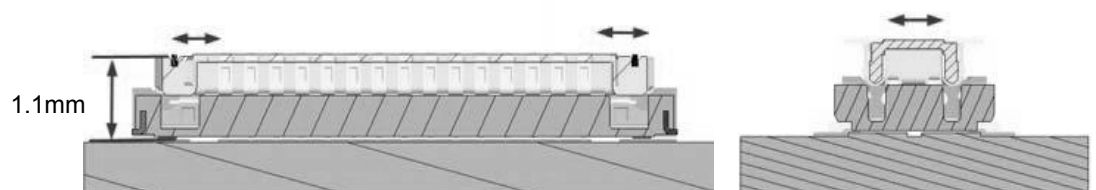


Positioning the plug correctly in parallel with the receptacle.

#### STEP 2

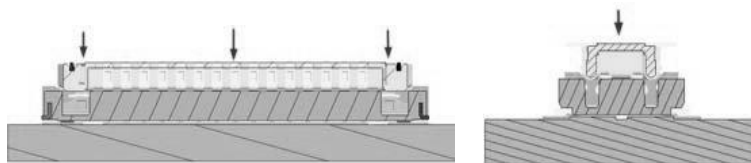
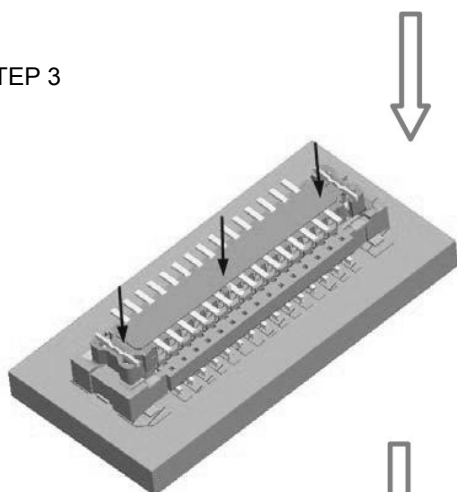


Correct position for mating



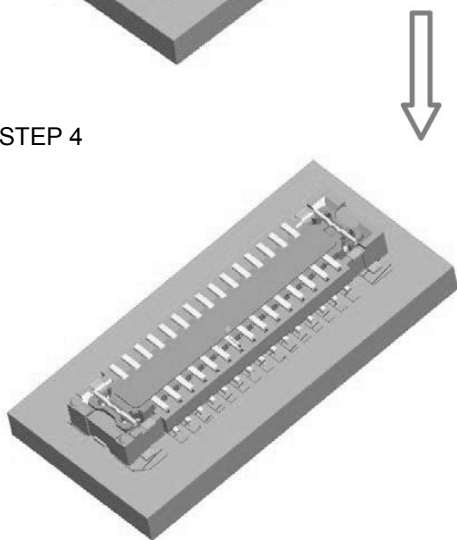
Position the plug correct by adjusting back or forth

STEP 3



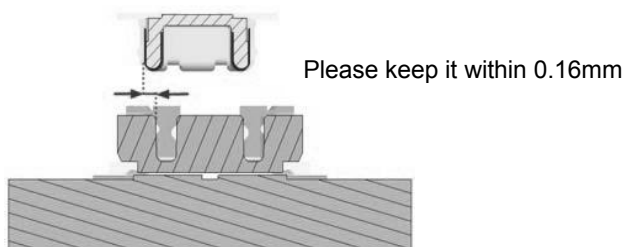
Insert the plug in parallel with the receptacle until fully seated

STEP 4

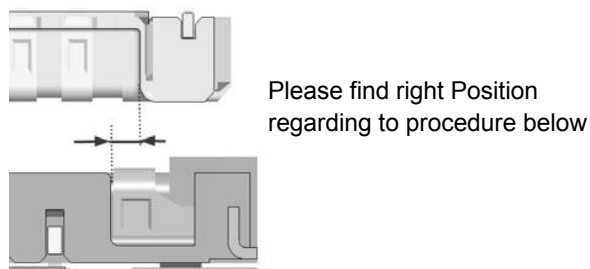


### 3. Mating positioning with slightly inclined

#### 3.1 When operated in "a" Direction ( Lengthways )

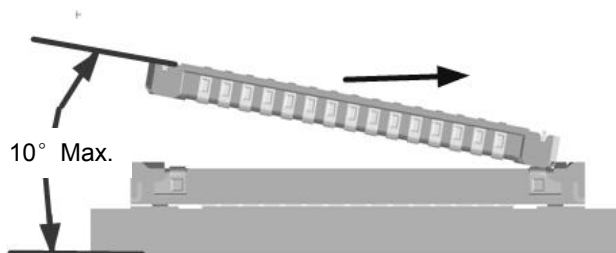
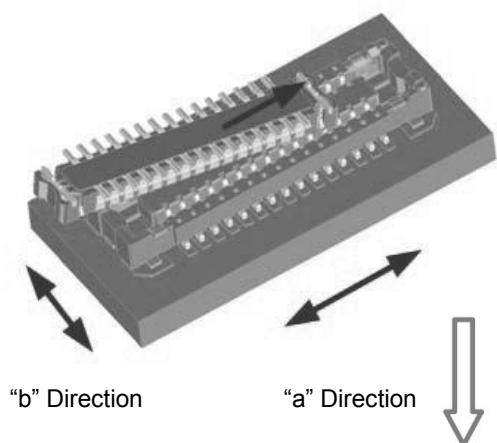


" b" Direction



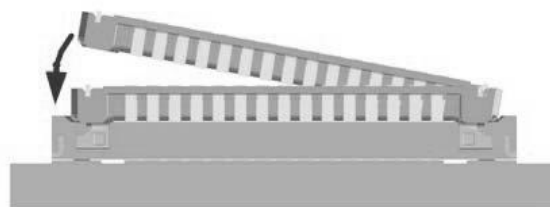
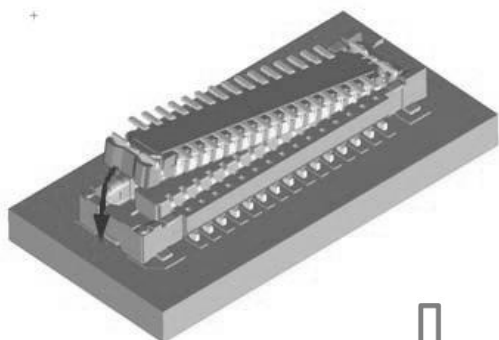
" a" Direction ( Lengthways )

## STEP 1



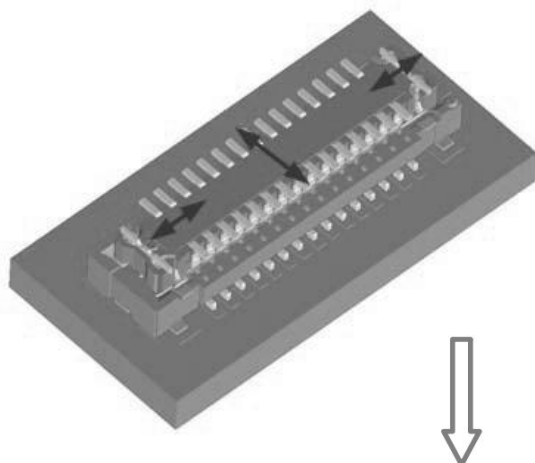
Position for mating by inclining the plug to the receptacle approximately less than 10°

## STEP 2



Once the plug is positioned over the receptacle  
Move it to the parallel position

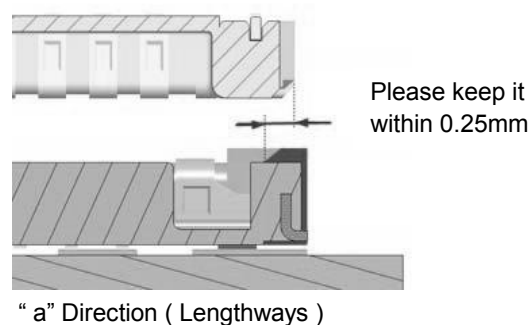
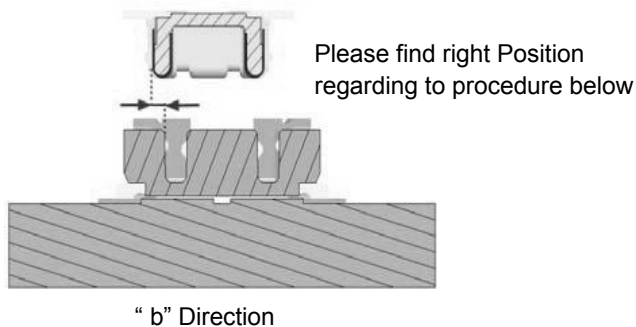
## STEP 3



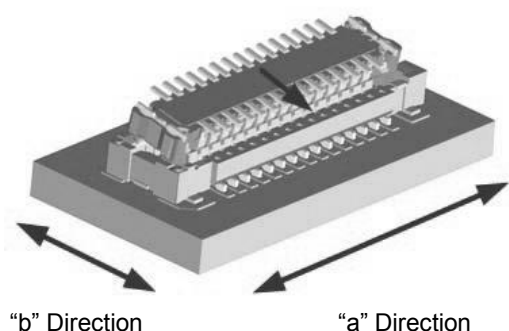
Position the plug correct by adjusting back or forth

Please go to the STEP 3 in Paragraph 2.1

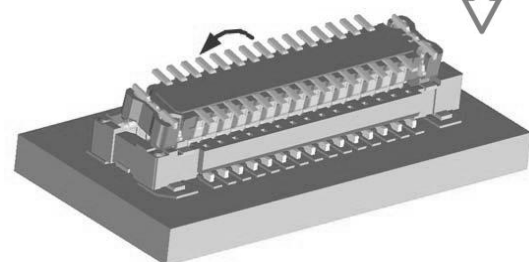
## 3.2 When operated in "b" Direction



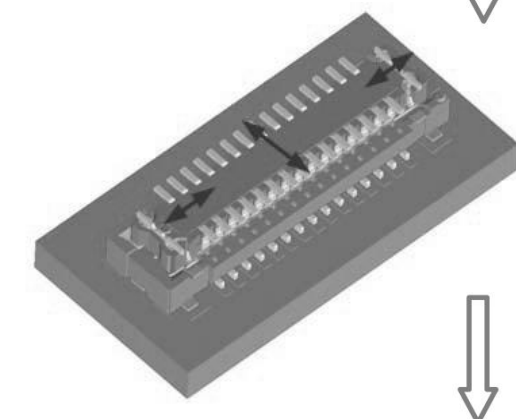
### STEP 1



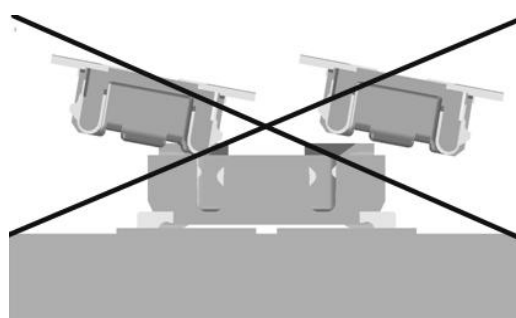
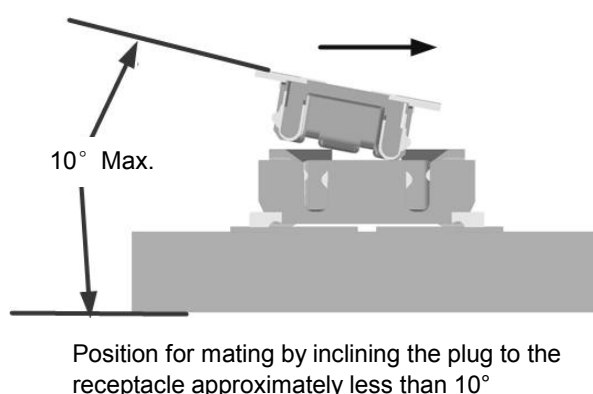
### STEP 2



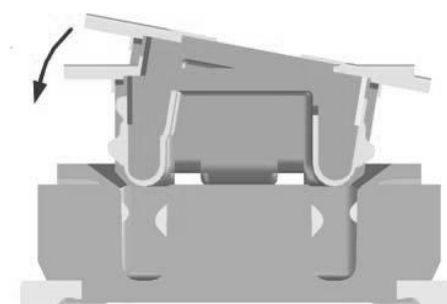
### STEP 3



Please go to the STEP 3 in Paragraph 2.1



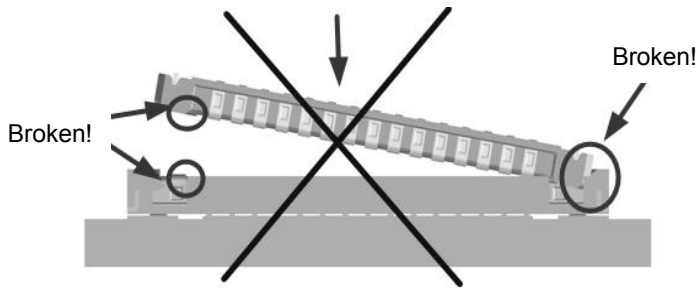
Notes) Pay attention NOT to have the wrong position in "b" Direction



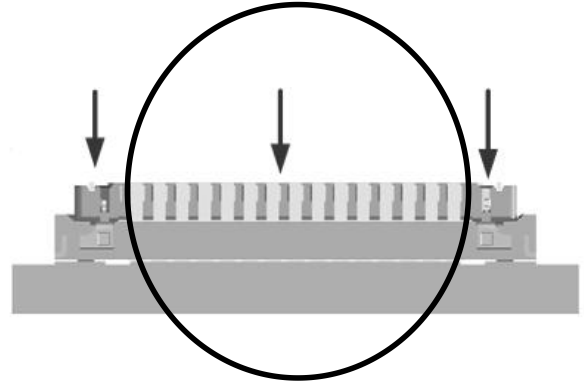
Once the plug is positioned over the receptacle  
Move it to the parallel position  
Position the plug correct by adjusting back or forth

## 4. Connector handling when mating

Please DO NOT apply force while mating the receptacle or plug at an angle in the “a” direction ( Lengthways ) , It may cause damage to the connector.

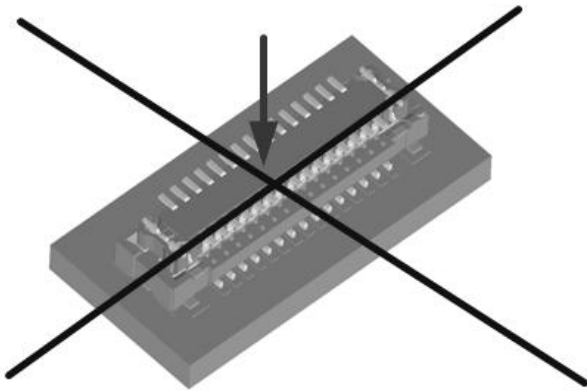


Mating with angle ( Wrong Handling )

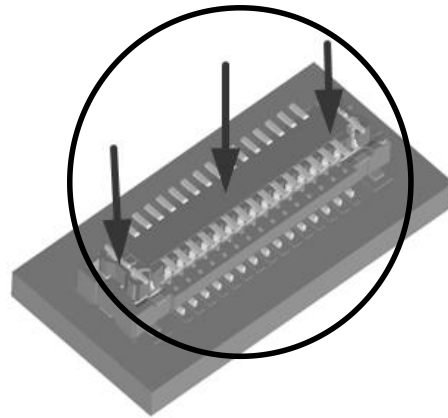


Mating with Parallel ( Correct Handling )

This product is downsized comparing with the current products and needs to be handled more carefully. When mating ( inserting ), do NOT push the only center of connector but the whole connector in parallel with the receptacle . When pushed only the center of connector , it may cause damage to the connector.



Pushing only Center ( Wrong Handling )

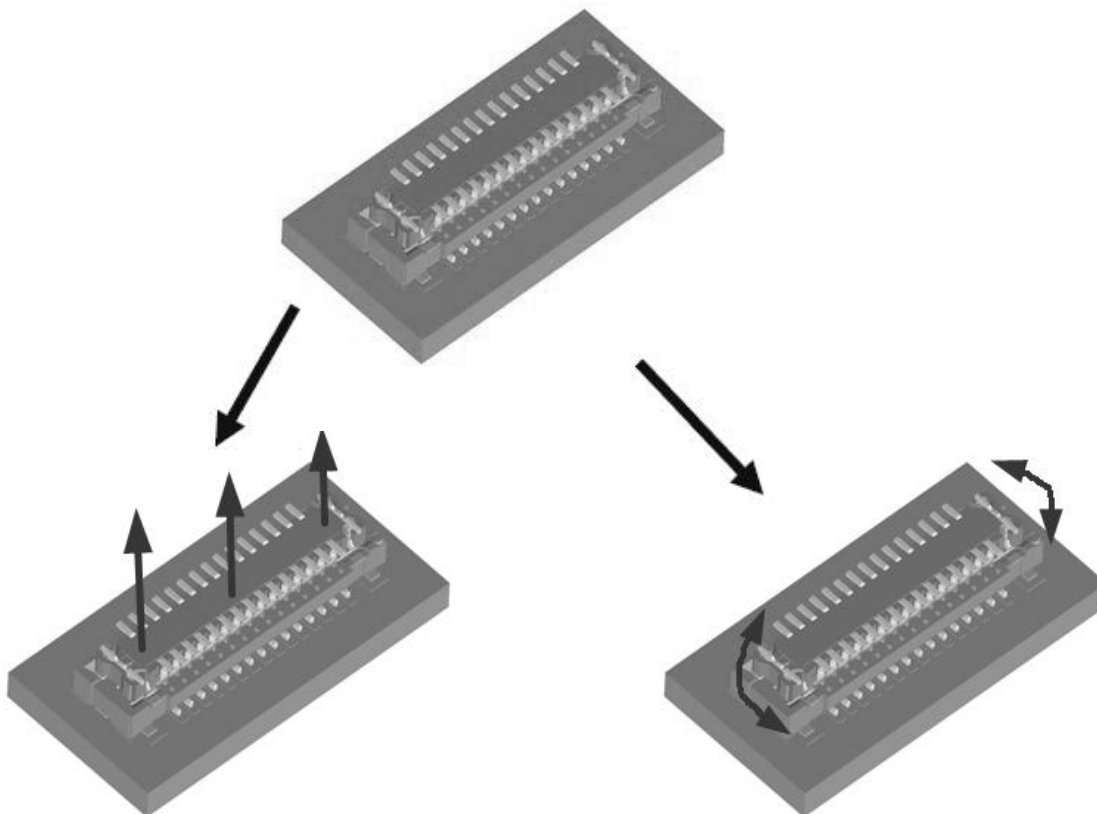


Pushing Whole Paralleled ( Correct Handling )

## 5. Um-mating

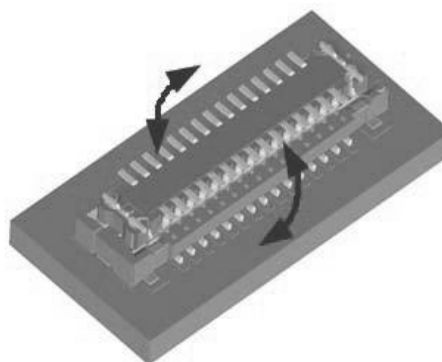
### 5.1 How to withdraw

The plug shall be released from the receptacle paralleled to the mated axis or by moving the plug slowly



Releasing the plug paralleled to the mated axis

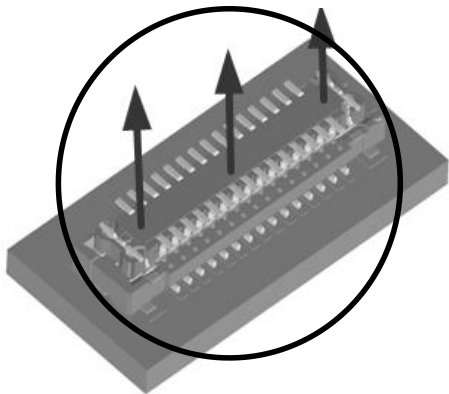
Releasing the plug by moving slowly in "a" direction  
( Lengthways )



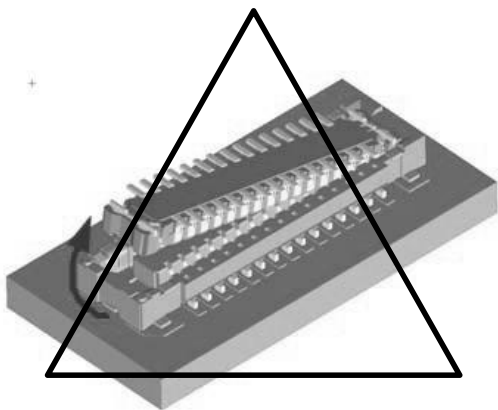
Releasing the plug by moving slowly in "b" direction

5.2 Connector handling when withdrawing

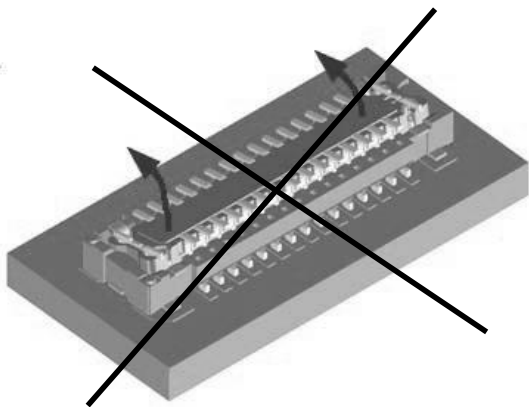
This product is downsized comparing with the current products and needs to be handled more carefully, When un-mating ( withdrawing ), do NOT twist the plug to release . It may cause damage to connector.



Releasing the plug paralleled to the mated axis



Slant releasing in “a” Direction ( Lengthways )



Slant releasing in “b” Direction

Merit and demerit for slant releasing are below

Item	Slant releasing in “a” Direction ( Lengthways )	Slant releasing in “b” Direction
Merit	1. Not easily cause the damage to the terminals 2. Hard to be withdrawn	None
Demerit	Multiple connector can be damaged plug	The continuity defect can be caused by damage to the terminals