

## 产品规格书（外部使用）

## Product Specification (For External Use)

| 版本<br>Rev. | 描述<br>Description                                                                               | 制表/日期<br>Written/Date | 审核/日期<br>Checked/Date | 核准/日期<br>Approved/Date |
|------------|-------------------------------------------------------------------------------------------------|-----------------------|-----------------------|------------------------|
| A          | 新版本<br>New release                                                                              | Tyler<br>07-20-2020   | Jason<br>07-20-2020   | Jason<br>07-20-2020    |
| B          | 增加 04、08、10PIN<br>Add 04、08、10Pin                                                               | Tyler<br>04-15-2021   | Jason<br>04-15-2021   | Jason<br>04-15-2021    |
| C          | 增加 12、14、16、20、24PIN<br>Add 12、14、16、20、24Pin                                                   | Tyler<br>08-25-2021   | Jason<br>08-25-2021   | Jason<br>08-25-2021    |
| D          | 更新最小包装数量 and 操作方法<br>Update the minimum package quantity and operation method.                  | Tyler<br>09-25-2021   | Jason<br>09-25-2021   | Jason<br>09-25-2021    |
| E          | 增加钢网尺寸和中文标示<br>Add metal mask size and Chinese identification                                   | Tyler<br>04-24-2022   | Jason<br>04-24-2022   | Jason<br>04-24-2022    |
| F          | 增加建议回流焊条件和有害成分信息<br>Add recommended Infrared reflow condition and harmful component information | Tyler<br>04-28-2022   | Jason<br>04-28-2022   | Jason<br>04-28-2022    |
|            |                                                                                                 |                       |                       |                        |

# 0.35mm Pitch,0.60mm Height,Board-to-Board/Board-to-FPC Connectors (BB350 Series )

|                                     |                                     |                                                                                                                                                                                          |                                                                                                                                                                                                         |
|-------------------------------------|-------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 额定值<br>Rating                       | 额定电流                                |                                                                                                                                                                                          |                                                                                                                                                                                                         |
|                                     | 信号引脚 0.3A/PIN                       |                                                                                                                                                                                          |                                                                                                                                                                                                         |
|                                     | 电源引脚 3A/PIN 额定电压 50V 交流/直流          |                                                                                                                                                                                          |                                                                                                                                                                                                         |
|                                     | Rated current signal pin: 0.3A /PIN |                                                                                                                                                                                          |                                                                                                                                                                                                         |
|                                     | Power pin: 3A/PIN                   |                                                                                                                                                                                          |                                                                                                                                                                                                         |
| Rated voltage 50V AC/DC             |                                     |                                                                                                                                                                                          |                                                                                                                                                                                                         |
|                                     |                                     | 工作温度范围: -40C 至+85C                                                                                                                                                                       | 存储温度范围: -10C 至+45C                                                                                                                                                                                      |
|                                     |                                     | 工作湿度范围: 20%到 80%                                                                                                                                                                         | 存储湿度范围: 20%到 80%                                                                                                                                                                                        |
|                                     |                                     | Operating temperature range : -40°C to +85°C                                                                                                                                             | Storage temperature range: -10°C to +45°C                                                                                                                                                               |
|                                     |                                     | Operating humidity range : 20% to 80%                                                                                                                                                    | Storage humidity range : 20% to 80%                                                                                                                                                                     |
| 项目<br>Item                          |                                     | 规格<br>Specification                                                                                                                                                                      | 条件<br>Conditions                                                                                                                                                                                        |
| 1. 绝缘阻抗<br>1. Insulation resistance |                                     | 1000 MΩ 最小<br>1000 MΩ min.                                                                                                                                                               | 150V直流/一分钟<br>150V DC /one minute                                                                                                                                                                       |
| 2. 耐压测试<br>2. Withstanding voltage  |                                     | 没有击穿或电火花<br>No flashover or insulation breakdown.                                                                                                                                        | 250V交流/一分钟<br>250V AC /one minute                                                                                                                                                                       |
| 3. 接触阻抗<br>3. Contact resistance    |                                     | 信号pin: 25 mΩ 最大 电源pin10mΩ 最大<br>Signal pin: 25 mΩ max Power pin: 10mΩ max                                                                                                                | 组装在胶芯上互配的端子, 通过最大 20mV 开路电压最大 100mA 的电流<br>Subject mated contacts assembled in housing to 20mV maximum open circuit at 100mA max                                                                        |
| 4. 振动测试<br>4. Vibration             |                                     | 瞬断不超过1微秒<br>No momentary disconnections of 1 micro-sec/min. And meet                                                                                                                     | 频率:10-50 Hz, 单振幅0.75毫米, 三个方向, 每个方向10次, 每次5分钟<br>Frequency :10Hz to 50Hz<br>Half amplitude of 0.75mm<br>10 cycles in each of 3 axis directions for 5 minutes/cycle                                       |
| 5. 耐潮湿<br>5. Humidity               |                                     | 没有物理损伤和满足要求<br>1. (绝缘阻抗)<br>2. (承受耐压)<br>3. (接触阻抗)<br>No physical damage and meet<br>1. ( Insulation Resistance )<br>2. ( Dielectric Withstanding Voltage )<br>3. ( Contact Resistance ) | 配对连接器并应用以下测试条件。<br>温度:+ 40±2° C<br>持续时间:240 小时<br>Mated Connector and apply the following test condition.<br>Temperature: +40±2° C<br>Duration: 240 Hours                                               |
| 6. 温度循环<br>6. Temperature Cycling   |                                     | 没有物理损伤和满足要求<br>1. (绝缘阻抗)<br>2. (承受耐压)<br>3. (接触阻抗)<br>No physical damage and meet<br>1. ( Insulation Resistance )<br>2. ( Dielectric Withstanding Voltage )<br>3. ( Contact Resistance ) | 配对连接器并应用以下测试条件。周期:10 个周期<br>温度:+25(-10)~ 65° C<br>湿度:90 ~ 98%RH<br>Mated Connector and apply the following test condition. Cycle: 10 cycles<br>Temperature : +25 ( -10 ) ~ 65° C<br>Humidity : 90~98%RH |



**0.35mm Pitch,0.60mm Height,Board-to-Board/Board-to-FPC Connectors  
(BB350 Series )**

|                                            |                                                                                                                  |                                                                                                                                                                                                 |
|--------------------------------------------|------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 7. 耐久<br>7. Durability                     | 无物理损伤，并能满足要求（接触阻抗）<br>No physical damage and meet . (Contact Resistance)                                         | 30次<br>30 cycles                                                                                                                                                                                |
| 8. 耐焊接性<br>8. Resistance to soldering heat | 无变形或其他功能影响<br>No deformation of components affecting performance.                                                | 回流焊:推荐的温度曲线<br>手动焊接:350±10° C 5±1 s<br>使用次数:3次<br>Reflow: At the recommended temperature profile<br>Manual soldering: 350±10° C for 5±1 s<br>Application : 3 times                              |
| 9. 盐雾测试<br>9. Salt water spray             | 无物理损伤，并能满足要求（接触阻抗）<br>No physical damage and meet . (Contact Resistance)                                         | 配对连接器并应用以下测试条件。<br>温度:+ 35±2° C<br>浓度:5±1%<br>持续时间:48 小时<br>Mated Connector and apply the following test condition.<br>Temperature: +35±2° C<br>Salt water density : 5±1%<br>Duration: 48 Hours |
| 10. 插拔力<br>10. Mating&Unmating Force       | 插入力 1.00N / pin 最大<br>拔出力 0.30N / pin 最小<br>Mating force : 1.00N / pin max.<br>Unmating force : 0.30N / pin min. | 测试最大速度25±3毫米/分钟<br>周期: 耐久 30 次<br>Operation Speed: 25 ± 3 mm<br>Durability Cycles: 30 Cycles.                                                                                                   |

**0.35mm Pitch,0.60mm Height,Board-to-Board/Board-to-FPC Connectors  
(BB350 Series )**

**材料和表面处理  
Materials and Finishes**

| 连接器<br>Connectors | 组件<br>Component | 材料<br>Material            | 完成<br>Finish           |                                                                              | 有害成分信息<br>Harmful<br>component<br>information | 备注<br>Remarks |
|-------------------|-----------------|---------------------------|------------------------|------------------------------------------------------------------------------|-----------------------------------------------|---------------|
| 母座<br>Socket      | 胶芯<br>Insulator | 液晶高分子聚合物<br>LCP           | 颜色：黑色<br>Color : Black |                                                                              | 符合ROHS2.0及无<br>卤要求<br>ROHS 2.0+HF             | UL94V-0       |
|                   | 端子<br>Contacts  | 磷青铜<br>Phosphor<br>bronze | 电镀<br>plating          | 接触区域：镀金 4u" 最小<br>镀镍：80-150 u"<br>Contact area:Au 4u"<br>Min,Ni 80-150u"     |                                               |               |
|                   |                 |                           |                        | 焊脚区域：闪金<br>镀镍：80-150 u"<br>Solder area:GOLD<br>FLASH ,Ni 80-150u"            |                                               |               |
| 公座<br>Plug        | 胶芯<br>Insulator | 液晶高分子聚合物<br>LCP           | 颜色：黑色<br>Color : Black |                                                                              | 符合ROHS2.0及无<br>卤要求<br>ROHS 2.0+HF             | UL94V-0       |
|                   | 端子<br>Contacts  | 磷青铜<br>Phosphor<br>bronze | 电镀<br>plating          | 接触区域：镀金 4u" 最小<br>镀镍：80-150 u"<br>Contact area:Au 4u"<br>Min,Ni 80-150u" Min |                                               |               |
|                   |                 |                           |                        | 焊脚区域：闪金<br>镀镍：80-150 u"<br>Solder area:GOLD<br>FLASH, Ni 80-150u"            |                                               |               |

订购信息 (母座)  
Ordering information (Socket)

**YXT-BB 35 0- XX S 2 4 A 0 (LC)**

**1 2 3 4 5 6 7 8 9 10**

|                                                                                                         |
|---------------------------------------------------------------------------------------------------------|
| 1. BB:板对板<br>1. BB: Board to Board                                                                      |
| 2. 系列名称: 35 宽度=1.5连接器<br>2. Series name: 35 W=1.5 Connectors                                            |
| 3. 客户: 0 (常规)<br>3. Customer: 0 (routine)                                                               |
| 4. PIN数: 02 04 06 08 10 12 14 16 20 24 PIN<br>4. Number of positions: 02 04 06 08 10 12 14 16 20 24 PIN |
| 5. 类型:S-母座<br>5. Type:S -Socket                                                                         |
| 6. 包装: 2 (15K/盘)<br>6. Packing: 2 (15K/R)                                                               |
| 7. 电镀: 4 (接触区域镀金4u" 最小 镍80-150u" 最小)<br>7. Plating: 4 (Contact area Au 4u" min Ni 80-150u" Min )        |
| 8. HD (HD是电源PIN)<br>8. Hold Down: A (With hold down power)                                              |
| 9. 序列号: 0<br>9. Serial number: 0                                                                        |
| 10. 客户: LC<br>10. Customer: LC                                                                          |

**0.35mm Pitch,0.60mm Height,Board-to-Board/Board-to-FPC Connectors  
(BB350 Series )**

---

订购信息（公座）

**Ordering information (Plug)**

**YXT-BB 35 0- XX P 2 4 A 0 (LC)**

**1 2 3 4 5 6 7 8 9 10**

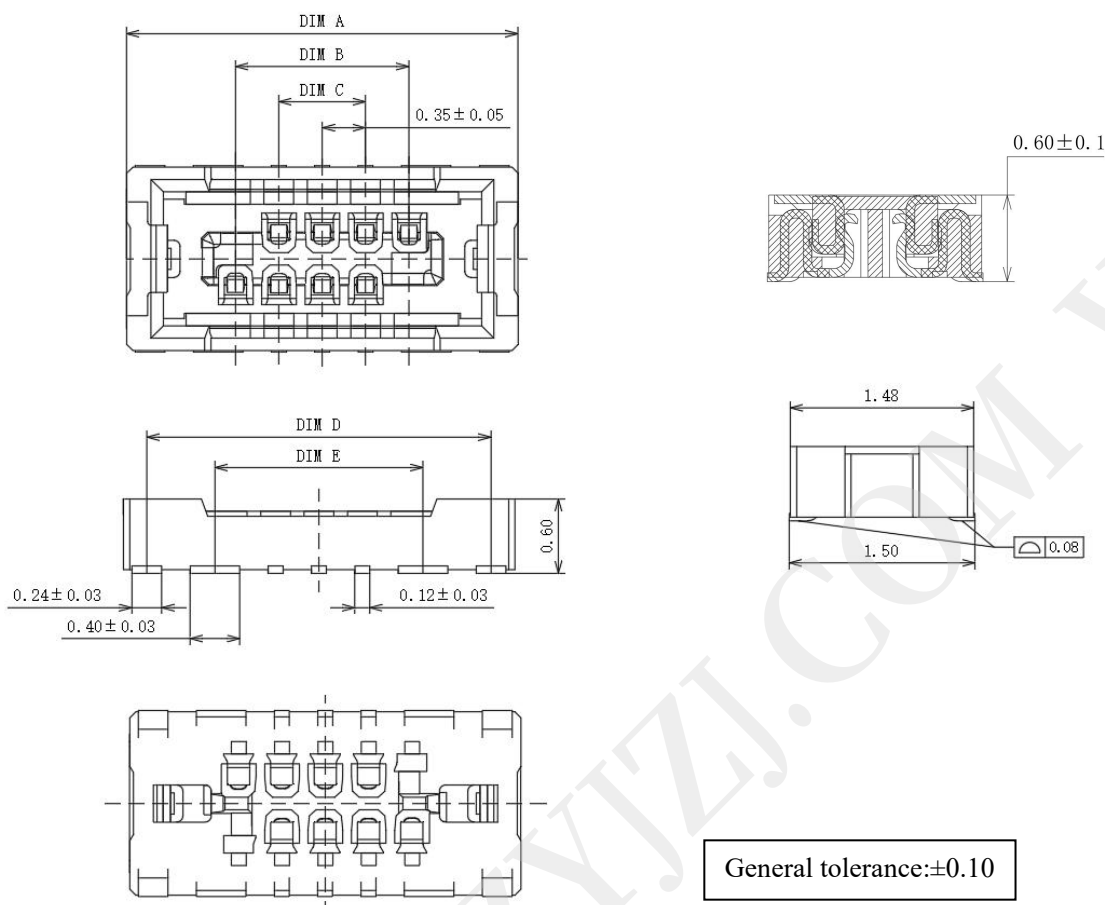
|                                                                                                         |
|---------------------------------------------------------------------------------------------------------|
| 1. BB:板对板<br>1. BB: Board to Board                                                                      |
| 2. 系列名称: 35 宽度=1.5连接器<br>2. Series name: 35 W=1.5 Connectors                                            |
| 3. 客户: 0 (常规)<br>3. Customer: 0 (routine)                                                               |
| 4. PIN数: 02 04 06 08 10 12 14 16 20 24 PIN<br>4. Number of positions: 02 04 06 08 10 12 14 16 20 24 PIN |
| 5. 类型:P-公座<br>5. Type:P -Plug                                                                           |
| 6. 包装: 2 (15K/盘)<br>6. Packing: 2 (15K/R)                                                               |
| 7. 电镀: 4 (接触区域镀金4u" 最小 镍80-150u" 最小)<br>7. Plating: 4 (Contact area Au 4u" min Ni 80-150u" Min )        |
| 8. HD (HD是电源PIN)<br>8. Hold Down: A (With hold down power)                                              |
| 9. 序列号: 0<br>9. Serial number: 0                                                                        |
| 10. 客户: LC<br>10. Customer: LC                                                                          |



# 0.35mm Pitch,0.60mm Height,Board-to-Board/Board-to-FPC Connectors (BB350 Series )

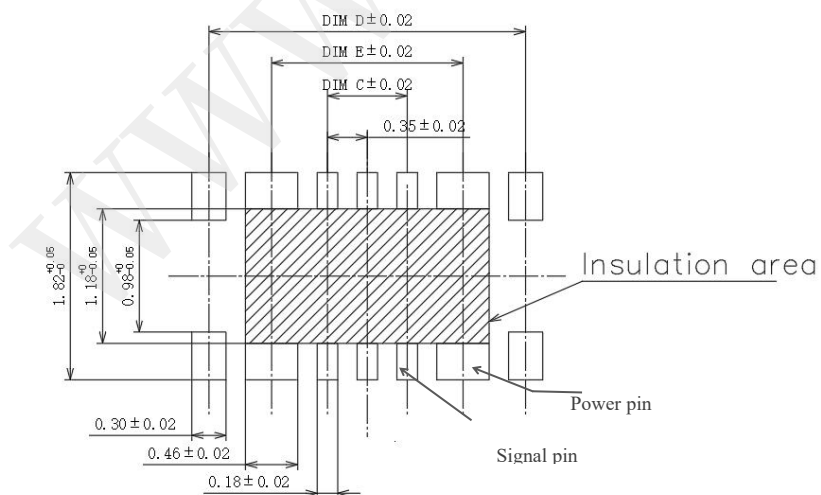
母座 (2D图 单位: 毫米)

Socket (CAD Data Unit:mm)



推荐焊盘

Recommended PCB mounting pattern



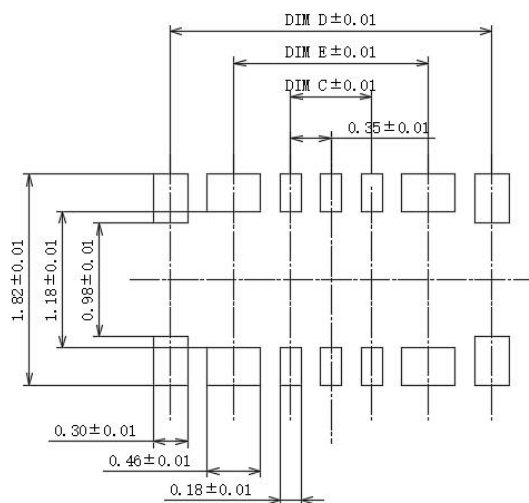
0.35mm Pitch,0.60mm Height,Board-to-Board/Board-to-FPC Connectors  
(BB350 Series )

推荐钢网

钢网厚度0.08毫米

Recommended Metal Mask Dimensions

Mask Thickness : 0.08mm



尺寸表（单位：毫米）

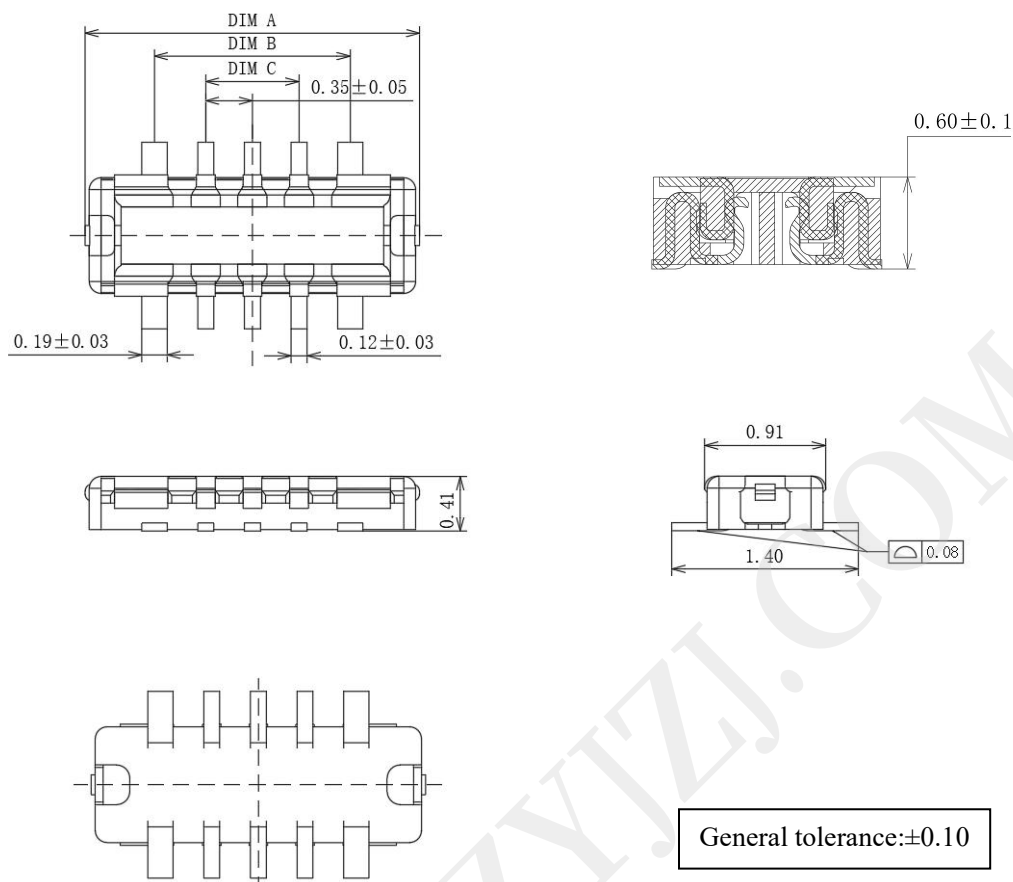
Dimention table (Unit: mm)

| Part Number           | Number of positions | DIM A | DIM B | DIM C | DIM D | DIM E |
|-----------------------|---------------------|-------|-------|-------|-------|-------|
| YXT-BB350-02S24A0(LC) | 02                  | 2.46  | 0.74  | -     | 2.08  | 0.98  |
| YXT-BB350-04S24A0(LC) | 04                  | 2.81  | 1.09  | 0.35  | 2.43  | 1.33  |
| YXT-BB350-06S24A0(LC) | 06                  | 3.16  | 1.44  | 0.7   | 2.78  | 1.68  |
| YXT-BB350-08S24A0(LC) | 08                  | 3.51  | 1.79  | 1.05  | 3.13  | 2.03  |
| YXT-BB350-10S24A0(LC) | 10                  | 3.86  | 2.14  | 1.40  | 3.48  | 2.38  |
| YXT-BB350-12S24A0(LC) | 12                  | 4.21  | 2.49  | 1.75  | 3.83  | 2.73  |
| YXT-BB350-14S24A0(LC) | 14                  | 4.56  | 2.84  | 2.10  | 4.18  | 3.08  |
| YXT-BB350-16S24A0(LC) | 16                  | 4.91  | 3.19  | 2.45  | 4.53  | 3.43  |
| YXT-BB350-20S24A0(LC) | 20                  | 5.61  | 3.89  | 3.15  | 5.23  | 4.13  |
| YXT-BB350-24S24A0(LC) | 24                  | 6.31  | 4.59  | 3.85  | 5.93  | 4.83  |

# 0.35mm Pitch,0.60mm Height,Board-to-Board/Board-to-FPC Connectors (BB350 Series )

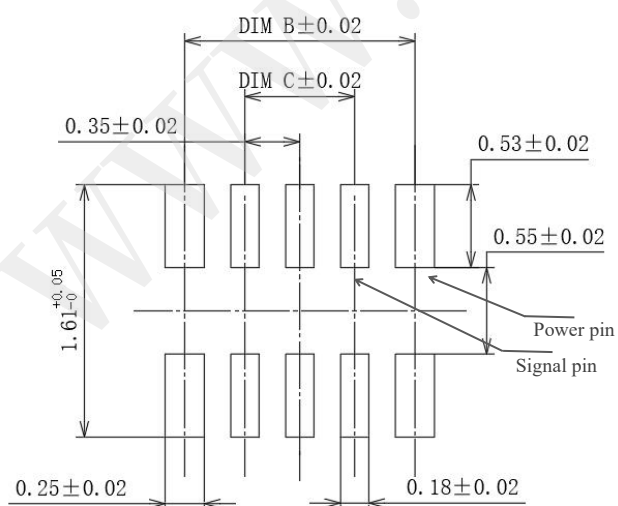
公座 (2D图 单位: 毫米)

Plug (CAD Data Unit:mm)



推荐PCB

Recommended PCB mounting pattern



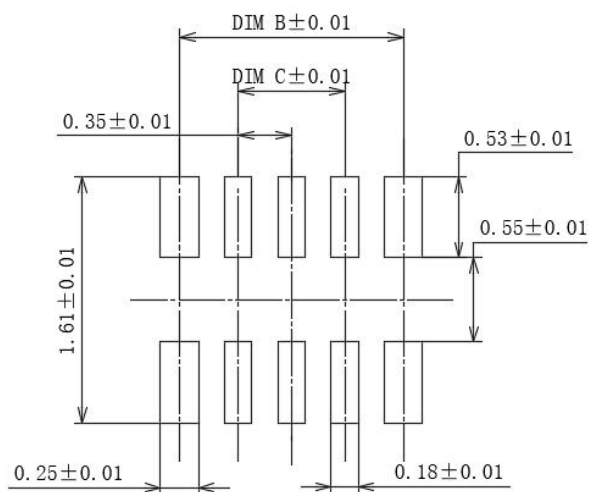
## 0.35mm Pitch,0.60mm Height,Board-to-Board/Board-to-FPC Connectors (BB350 Series )

推荐钢网

钢网厚度0.08毫米

**Recommended Metal Mask Dimensions**

**Mask Thickness : 0.08mm**



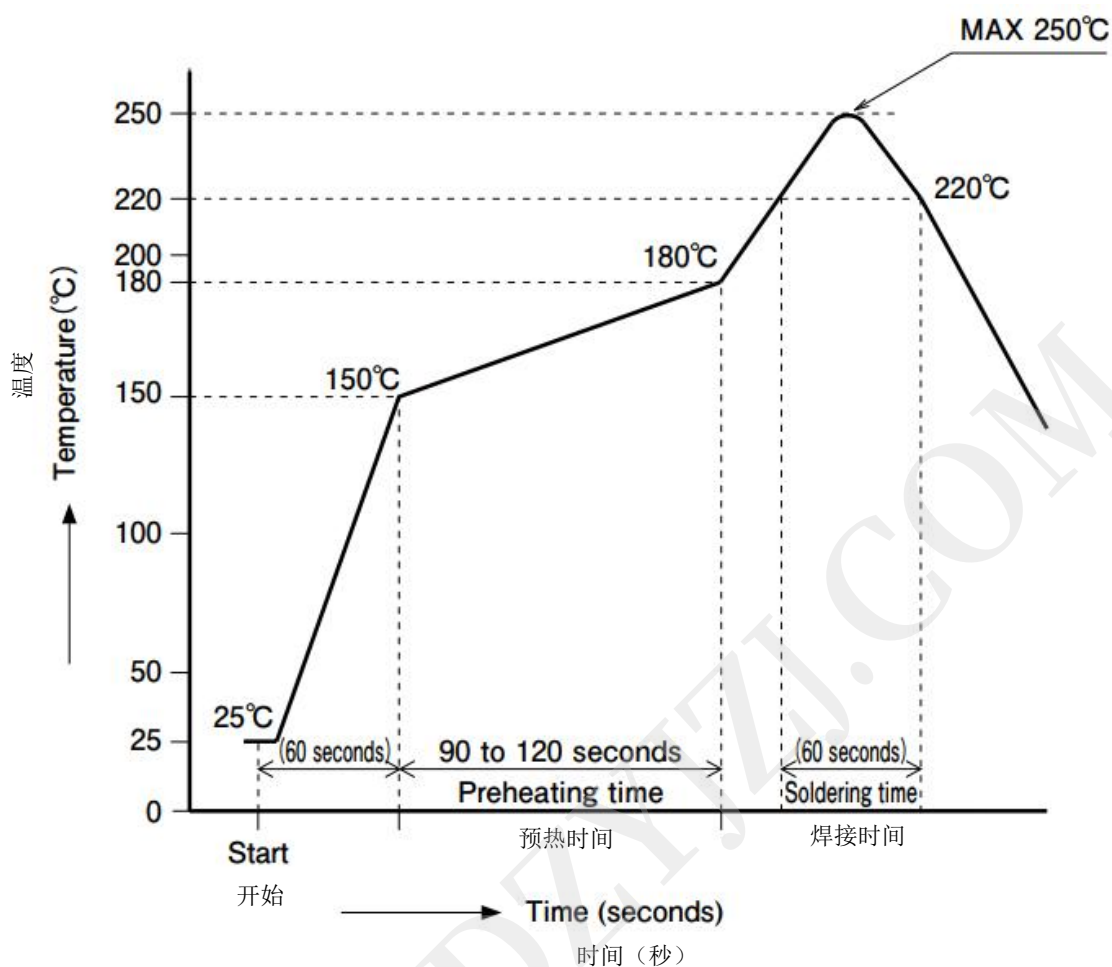
尺寸表（单位：毫米）

**Dimension table (Unit: mm)**

| Part Number           | Number of positions | DIM A | DIM B | DIM C |
|-----------------------|---------------------|-------|-------|-------|
| YXT-BB350-02P24A0(LC) | 02                  | 1.81  | 0.77  | -     |
| YXT-BB350-04P24A0(LC) | 04                  | 2.16  | 1.12  | 0.35  |
| YXT-BB350-06P24A0(LC) | 06                  | 2.51  | 1.47  | 0.70  |
| YXT-BB350-08P24A0(LC) | 08                  | 2.86  | 1.82  | 1.05  |
| YXT-BB350-10P24A0(LC) | 10                  | 3.21  | 2.17  | 1.40  |
| YXT-BB350-12P24A0(LC) | 12                  | 3.56  | 2.52  | 1.75  |
| YXT-BB350-14P24A0(LC) | 14                  | 3.91  | 2.87  | 2.10  |
| YXT-BB350-16P24A0(LC) | 16                  | 4.26  | 3.22  | 2.45  |
| YXT-BB350-20P24A0(LC) | 20                  | 4.96  | 3.92  | 3.15  |
| YXT-BB350-24P24A0(LC) | 24                  | 5.66  | 4.62  | 3.85  |

建议回流焊曲线条件

## RECOMMENDED INFRARED REFLOW CONDITION

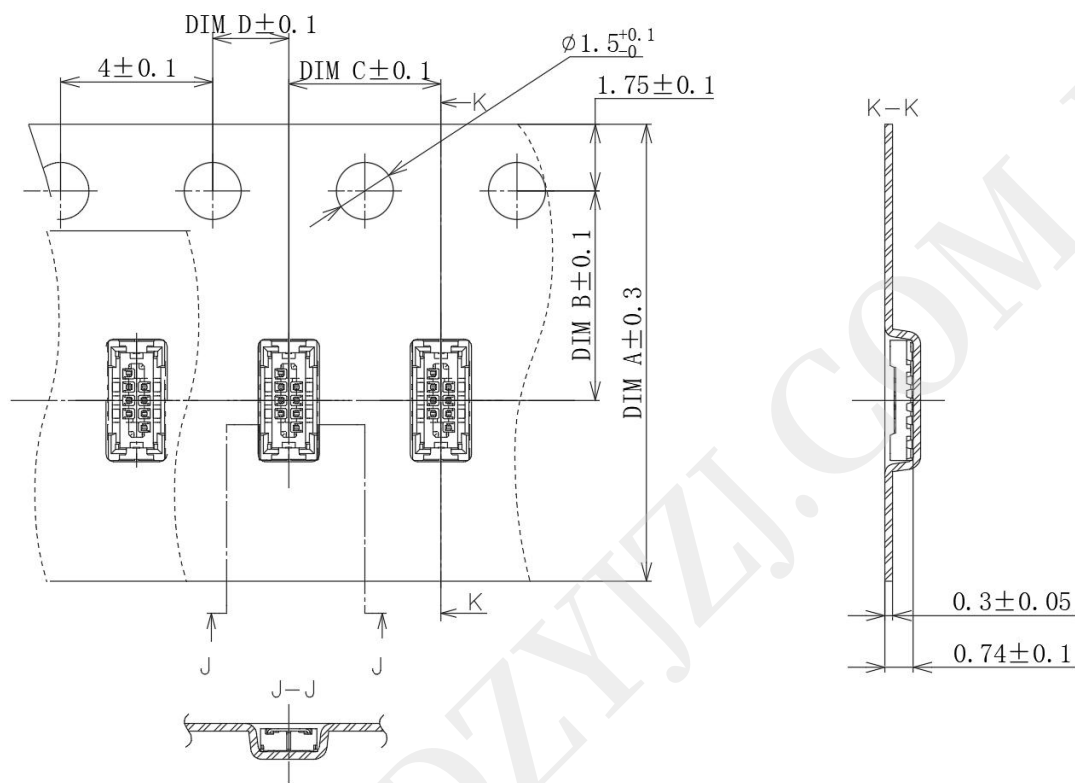


## 包装规范

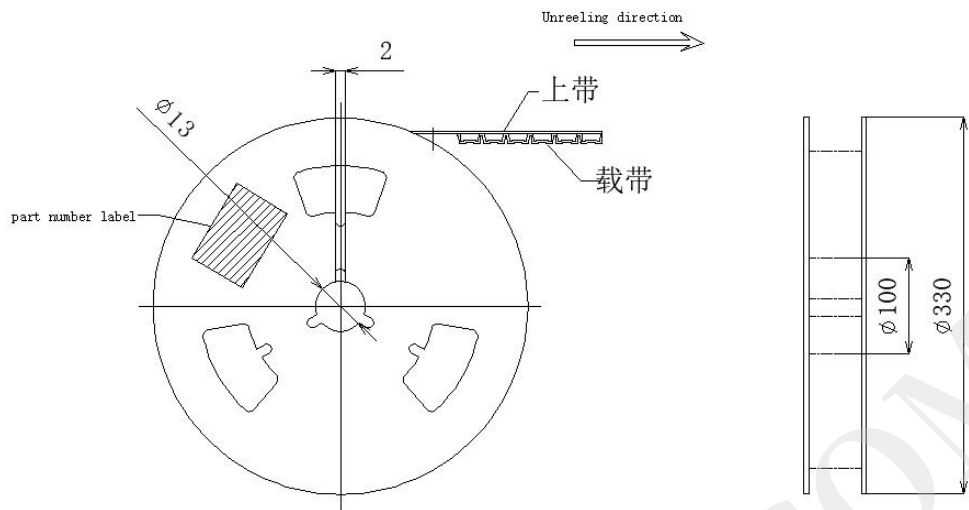
## 母座载体尺寸

## Packing Specification

## Embossed Carrier Tape Dimensions-Socket



包装盘尺寸-母座  
Reel Dimensions--Socket



尺寸表（单位：毫米）  
Dimention table (Unit: mm)

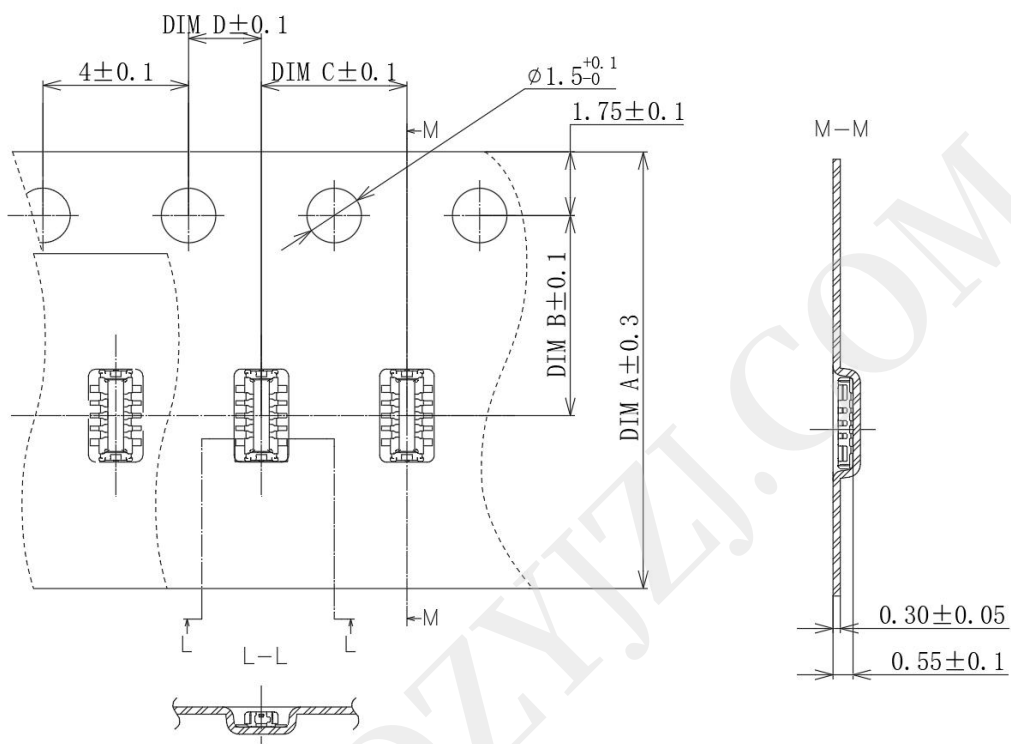
| Part Number           | A  | B   | C | D | Quantity(PC/REEL) |
|-----------------------|----|-----|---|---|-------------------|
| YXT-BB350-02S24A0(LC) | 12 | 5.5 | 4 | 2 | 15000             |
| YXT-BB350-04S24A0(LC) | 12 | 5.5 | 4 | 2 | 15000             |
| YXT-BB350-06S24A0(LC) | 12 | 5.5 | 4 | 2 | 15000             |
| YXT-BB350-08S24A0(LC) | 12 | 5.5 | 4 | 2 | 15000             |
| YXT-BB350-10S24A0(LC) | 16 | 7.5 | 4 | 2 | 15000             |
| YXT-BB350-12S24A0(LC) | 16 | 7.5 | 4 | 2 | 15000             |
| YXT-BB350-14S24A0(LC) | 16 | 7.5 | 4 | 2 | 15000             |
| YXT-BB350-16S24A0(LC) | 16 | 7.5 | 4 | 2 | 15000             |
| YXT-BB350-20S24A0(LC) | 16 | 7.5 | 4 | 2 | 15000             |
| YXT-BB350-24S24A0(LC) | 16 | 7.5 | 4 | 2 | 15000             |

包装规范

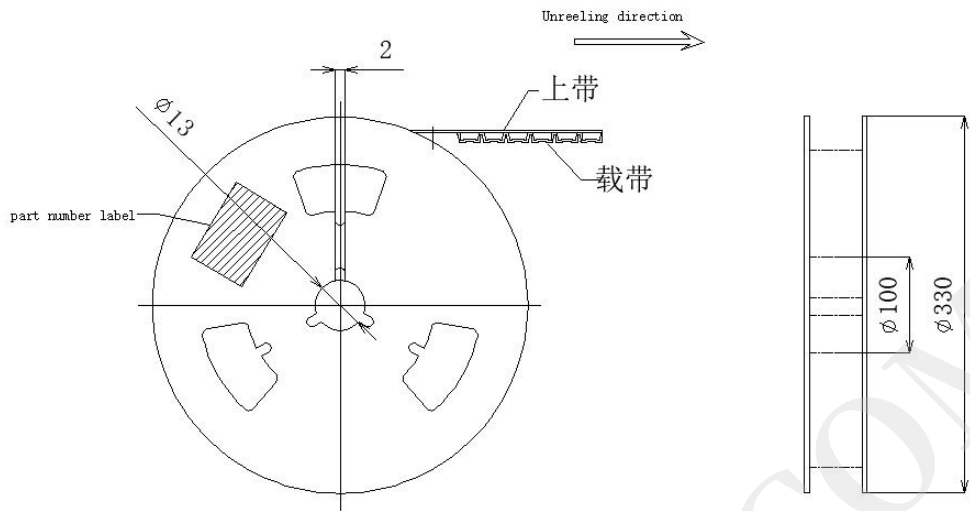
公座载体尺寸

## Packing Specification

### Embossed Carrier Tape Dimensions-Plug



包装盘尺寸-公座  
Reel Dimensions--Plug



尺寸表（单位：毫米）  
Dimention table (Unit: mm)

| Part Number           | A  | B   | C | D | Quantity(PC/REEL) |
|-----------------------|----|-----|---|---|-------------------|
| YXT-BB350-02P24A0(LC) | 12 | 5.5 | 4 | 2 | 15000             |
| YXT-BB350-04P24A0(LC) | 12 | 5.5 | 4 | 2 | 15000             |
| YXT-BB350-06P24A0(LC) | 12 | 5.5 | 4 | 2 | 15000             |
| YXT-BB350-08P24A0(LC) | 12 | 5.5 | 4 | 2 | 15000             |
| YXT-BB350-10P24A0(LC) | 16 | 7.5 | 4 | 2 | 15000             |
| YXT-BB350-12P24A0(LC) | 16 | 7.5 | 4 | 2 | 15000             |
| YXT-BB350-14P24A0(LC) | 16 | 7.5 | 4 | 2 | 15000             |
| YXT-BB350-16P24A0(LC) | 16 | 7.5 | 4 | 2 | 15000             |
| YXT-BB350-20P24A0(LC) | 16 | 7.5 | 4 | 2 | 15000             |
| YXT-BB350-24P24A0(LC) | 16 | 7.5 | 4 | 2 | 15000             |

## 产品组装的操作说明

### Instruction of application to usage

#### 组装插头时注意事项

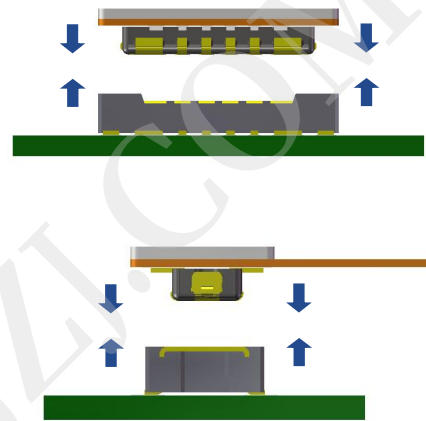
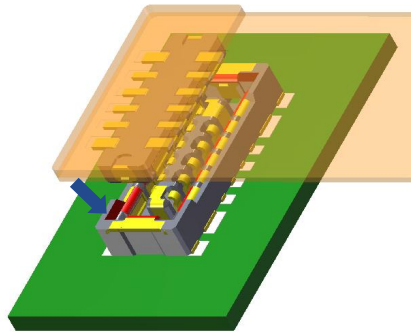
#### Notes when mating connector

##### 1. 将插头与导轨对齐

连接器上设有与导轨配合的导向结构。保持公座侧和母座侧平衡后，请按下连接器。

##### 1.Align the connector with the guide rail.

The connector is equipped with a guide structure to cooperate with the guide. Please press the connector after keeping the balance between the male seat side and the female seat side.



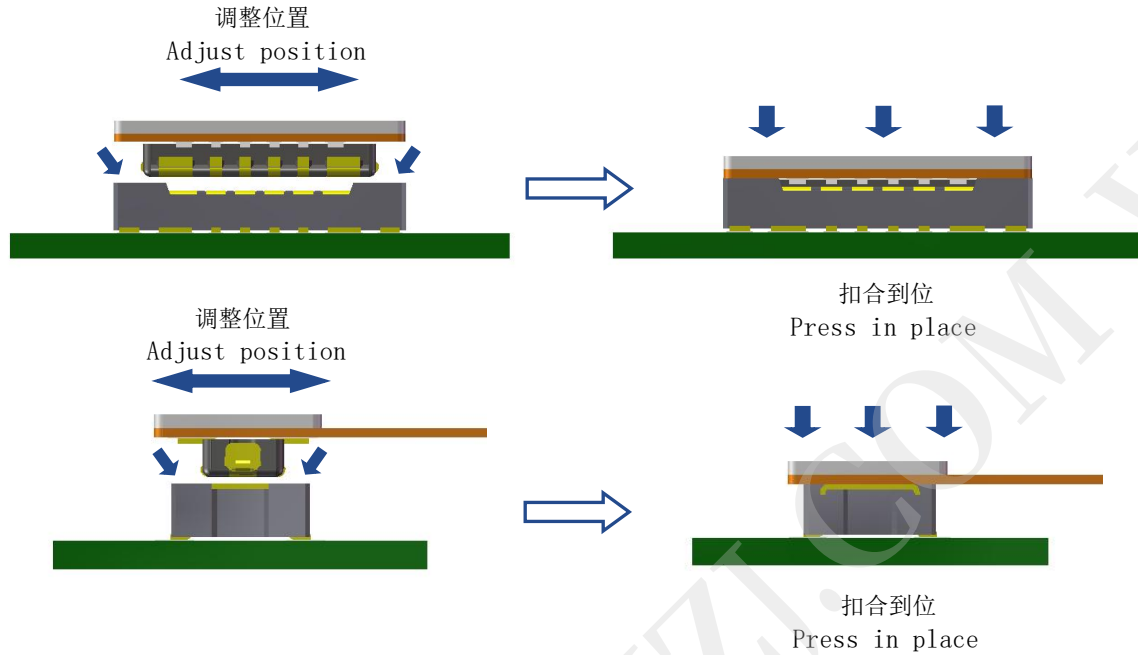
保持水平  
Keep level

## 2. 扣合连接器

正确对准时，插头略微降低，通过在X和Y方向移动连接器确认正确位置。

### 2.Crimp the connector.

When correctly aligned, the plug is slightly lowered and the correct position is confirmed by moving the connector in the X and Y directions.



拆卸插头注意事项

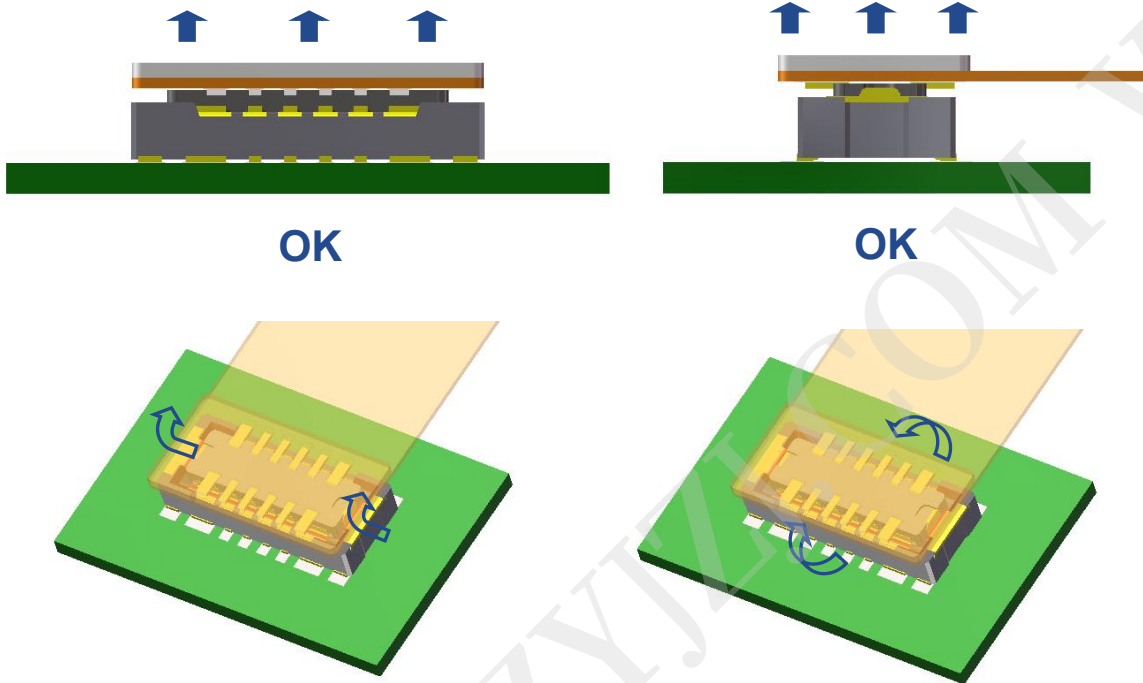
Notes when unmating connector

1. 垂直方向

拆卸接头时，请垂直拆卸插头。（当FPC的厚度等因素可能导致难以垂直拆卸时，轻轻摇晃接头，同时垂直拆卸）

1.Vertical direction

When removing the connector, remove it vertically. ( When the thickness of FPC or other factors may make it difficult to disassemble vertically, gently shake the connector and disassemble vertically at the same time )



轻轻摇晃接头，同时垂直取下

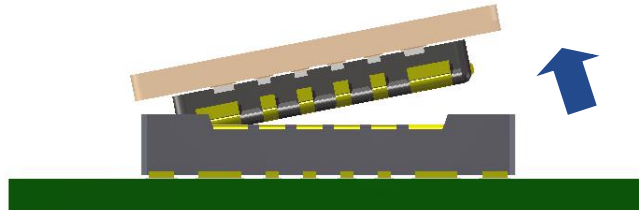
Gently shake the connector and remove it vertically at the same time

2. 纵向

倾斜的拔下插头

2. Longitudinal removal

Pull off the connector in an inclined manner



OK

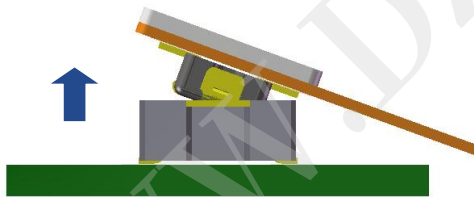
3. 横向

沿垂直方向拔出FPC的插头。 水平地施加一个较大的力可能会使接触点变形。

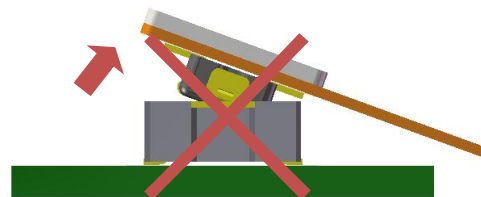
3. Lateral removal

Pull out the plug of the FPC in a vertical direction.

Applying a large force horizontally may deform the contact.



OK



NG