

产品规格书（外部使用）

Product Specification

(For External Use)

版本 Rev.	描述 Description	制表/日期 Written/Date	审核/日期 Checked/Date	核准/日期 Approved/Date
A	新版本 New release	Tyler 05-11-2024	Jason 05-11-2024	Jason 05-11-2024
B	插入力 1.5N/pin 最大; 增加 16、60pin Mating force : 1.50N / pin max. Add 16、60pin	Tyler 06-28-2024	Jason 06-28-2024	Jason 06-28-2024

0.35mm Pitch,0.60mm Height,Board-to-Board/Board-to-FPC Connectors (BB390X Series)

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

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<p>7. 耐久 7. Durability</p>	<p>无物理损伤, 并能满足要求 (接触阻抗) No physical damage and meet . (Contact Resistance)</p>	<p>30次 30 cycles</p>
<p>8. 耐焊接性 8. Resistance to soldering heat</p>	<p>无变形或其他功能影响 No deformation of components affecting performance.</p>	<p>回流焊:推荐的温度曲线 手动焊接:350±10° C 5±1 s 使用次数:3次 Reflow: At the recommended temperature profile Manual soldering: 350±10° C for 5±1 s Application : 3 times</p>
<p>9. 盐雾测试 9. Salt water spray</p>	<p>无物理损伤, 并能满足要求 (接触阻抗) No physical damage and meet . (Contact Resistance)</p>	<p>配对连接器并应用以下测试条件。 温度:+ 35±2° C 浓度:5±1% 持续时间:48 小时 Mated Connector and apply the following test condition. Temperature: +35±2° C Salt water density : 5±1% Duration: 48 Hours</p>
<p>10. 插拔力 10. Mating&Unmating Force</p>	<p>插入力 1.50N / pin 最大 拔出力 0.30N / pin 最小 Mating force : 1.50N / pin max. Unmating force : 0.30N / pin min.</p>	<p>测试最大速度25±3毫米/分钟 周期: 耐久 30 次 Operation Speed: 25 ± 3 mm Durability Cycles: 30 Cycles.</p>

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**材料和表面处理
Materials and Finishes**

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

订购信息 (母座)
Ordering information (Socket)

YXT-BB 390X- XX S 1 4 A 0

1 2 3 4 5 6 7 8

1. BB:板对板 1. BB: Board to Board
2. 系列名称: 390X 系列 连接器 2. Series name: 390X Series Connectors
3. PIN数: 10 16 24 30 40 50 60PIN 3. Number of positions: 10 16 24 30 40 50 60PIN
4. 类型:S-母座 4. Type:S -Socket
5. 包装: 1 (10K/盘) 5. Packing: 1 (10K/R)
6. 电镀: 4 (接触区域镀金4u" 最小 镍80-150u" 最小) 6. Plating: 4 (Contact area Au 4u" min Ni 80-150u" Min)
7. HD (HD是电源PIN) 7. Hold Down: A (With hold down power)
8. 序列号: 0 8. Serial number: 0

订购信息 (公座)
Ordering information (Plug)

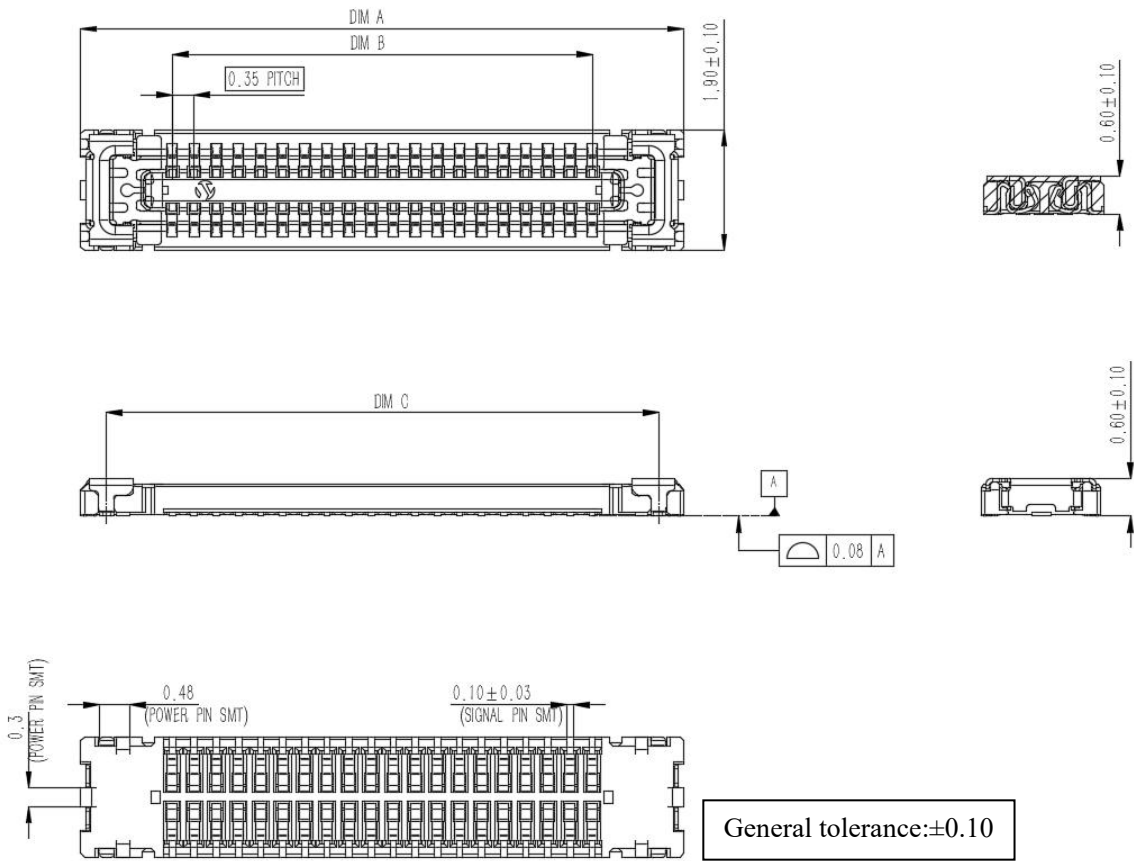
YXT-BB 390X- XX P 1 4 A 0

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3. PIN数: 10 16 24 30 40 50 60PIN 3. Number of positions: 10 16 24 30 40 50 60PIN
4. 类型:P-公座 4. Type:P -Plug
5. 包装: 1 (10K/盘) 5. Packing: 1 (10K/R)
6. 电镀: 4 (接触区域镀金4u" 最小 镍80-150u" 最小) 6. Plating: 4 (Contact area Au 4u" min Ni 80-150u" Min)
7. HD (HD是电源PIN) 7. Hold Down: A (With hold down power)
8. 序列号: 0 8. Serial number: 0

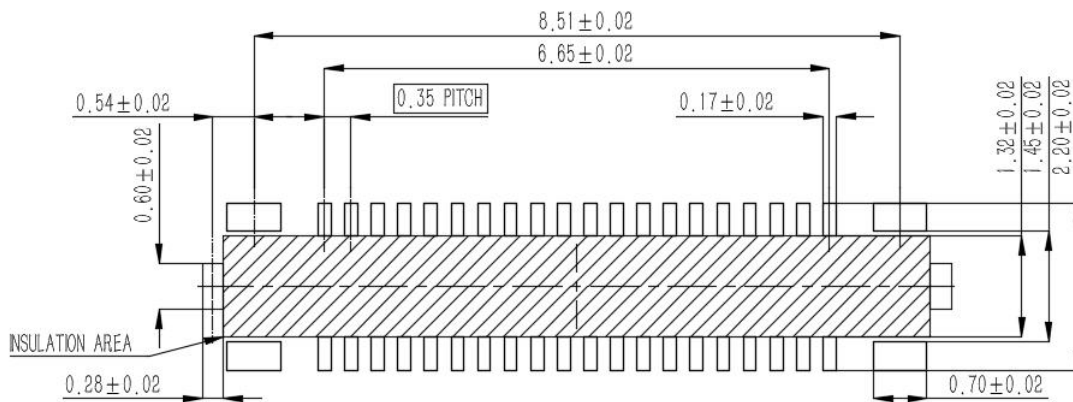
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母座 (2D图 单位: 毫米)
Socket (CAD Data Unit:mm)



推荐焊盘

Recommended PCB mounting pattern



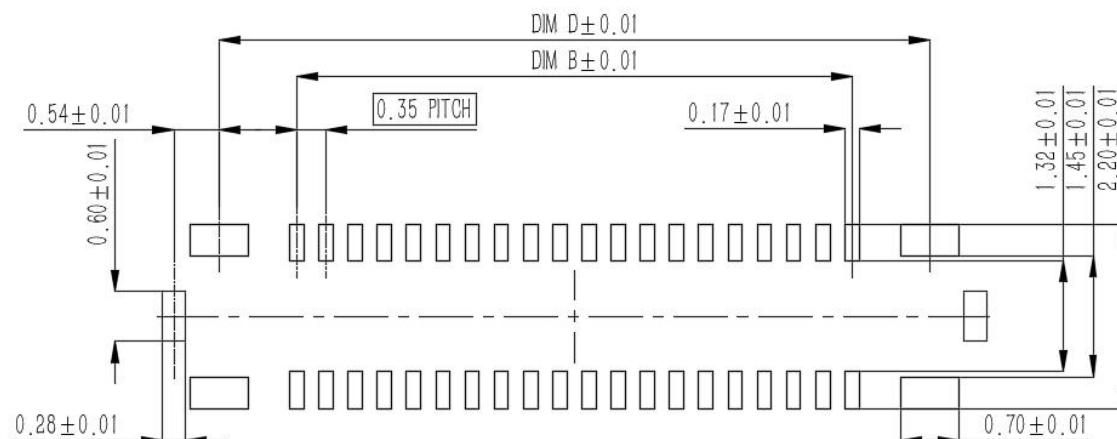
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推荐钢网

钢网厚度0.08毫米

Recommended Metal Mask Dimensions

Mask Thickness : 0.08mm



尺寸表 (单位: 毫米)

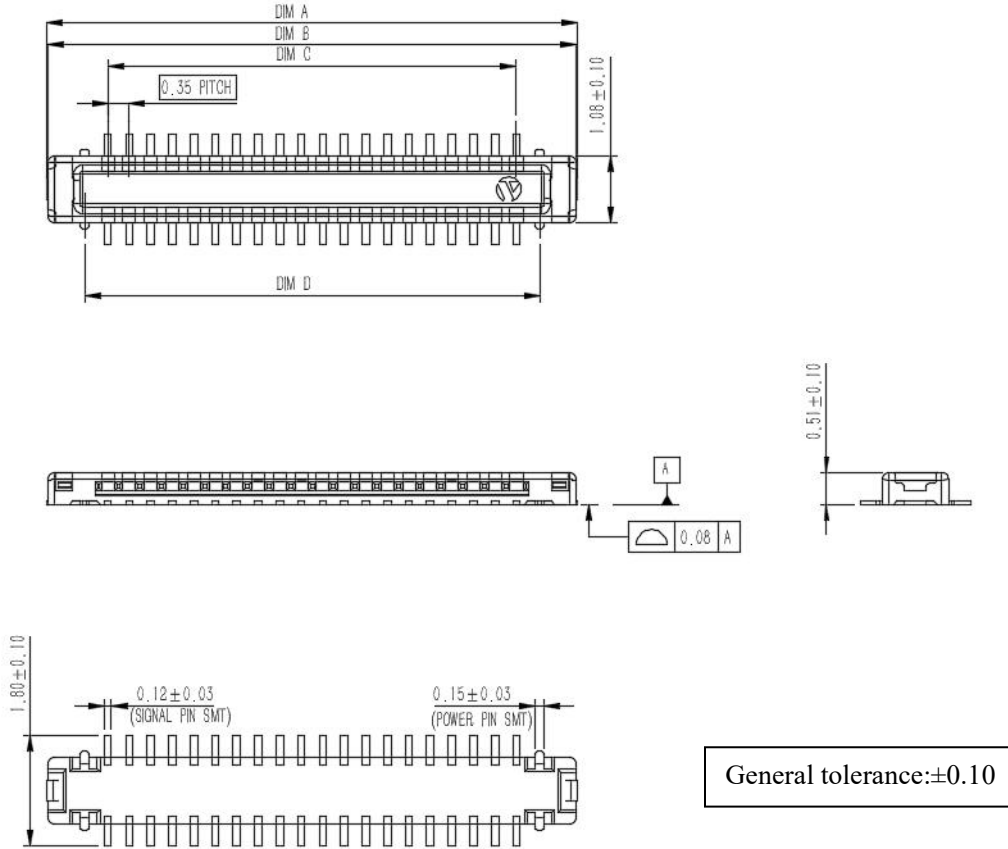
Dimension table (Unit: mm)

Part Number	Number of positions	DIM A	DIM B	DIM C	DIM D
YXT-BB390X-10S14A0	10	4.30	1.40	3.50	3.26
YXT-BB390X-16S14A0	16	5.35	2.45	4.55	4.31
YXT-BB390X-24S14A0	24	6.75	3.85	5.95	5.71
YXT-BB390X-30S14A0	30	7.80	4.90	7.00	6.76
YXT-BB390X-40S14A0	40	9.55	6.65	8.75	8.51
YXT-BB390X-50S14A0	50	11.30	8.40	10.50	10.26
YXT-BB390X-60S14A0	60	13.05	10.15	12.25	12.01

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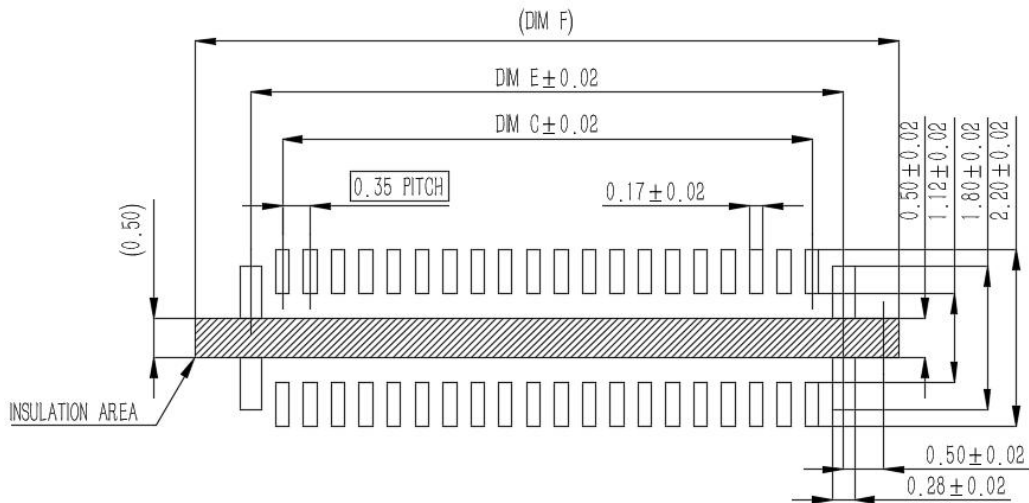
公座 (2D图 单位: 毫米)

Plug (CAD Data Unit:mm)



推荐PCB

Recommended PCB mounting pattern



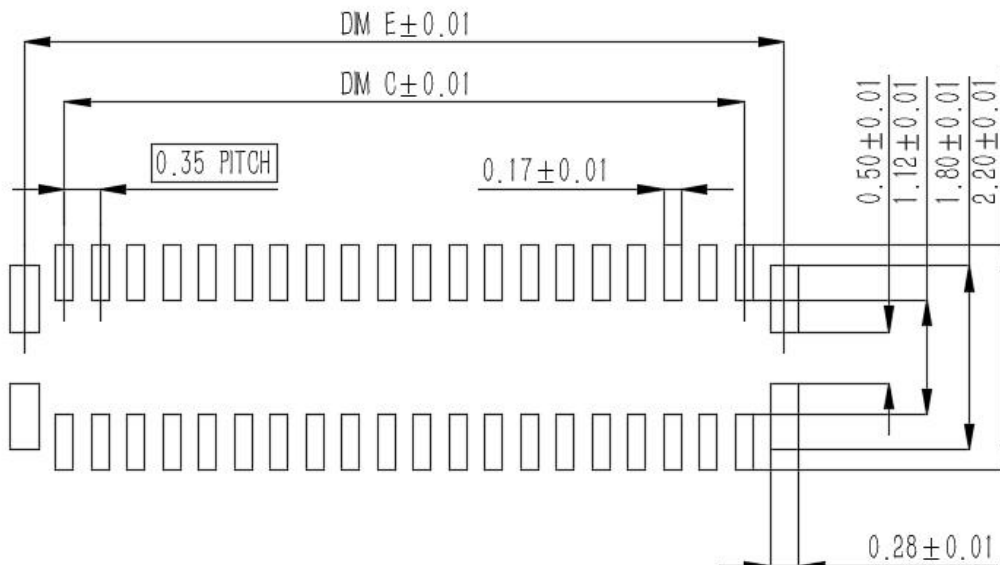
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推荐钢网

钢网厚度0.08毫米

Recommended Metal Mask Dimensions

Mask Thickness : 0.08mm



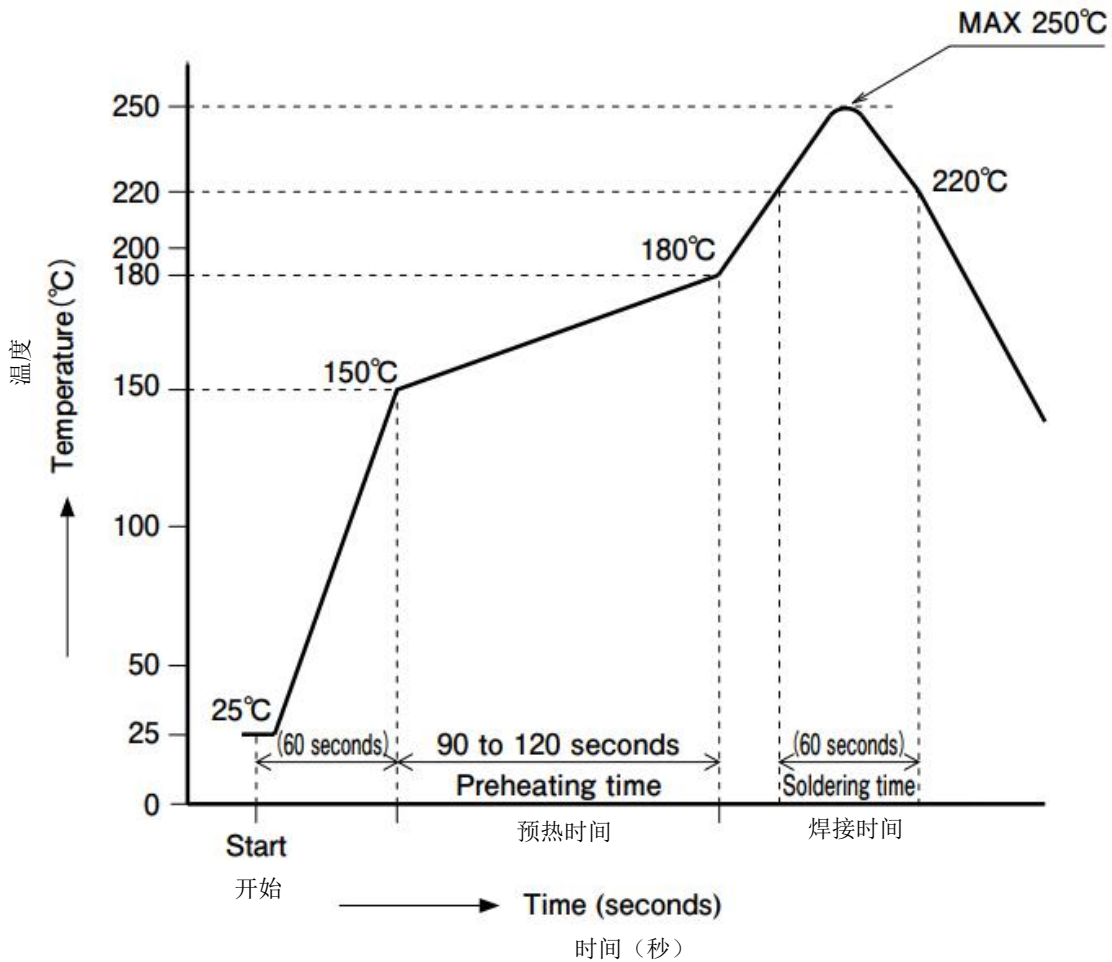
尺寸表 (单位: 毫米)

Dimension table (Unit: mm)

Part Number	Number of positions	DIM A	DIM B	DIM C	DIM D	DIM E	DIM F
YXT-BB390X-10P14A0	10	3.39	3.35	1.40	2.15	2.19	3.59
YXT-BB390X-16P14A0	16	4.44	4.40	2.45	3.20	3.24	4.64
YXT-BB390X-24P14A0	24	5.84	5.80	3.85	4.60	4.64	6.04
YXT-BB390X-30P14A0	30	6.89	6.85	4.90	5.65	5.69	7.09
YXT-BB390X-40P14A0	40	8.64	8.60	6.65	7.40	7.44	8.84
YXT-BB390X-50P14A0	50	10.39	10.35	8.40	9.15	9.19	10.59
YXT-BB390X-60P14A0	60	12.14	12.10	10.15	10.90	10.94	12.34

建议回流焊曲线条件

RECOMMENDED INFRARED REFLOW CONDITION



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尺寸表 (单位: 毫米)

Dimension table (Unit: mm)

Part Number	A	B	C	D	Quantity(PC/REEL)
YXT-BB390X-10S14A0	12	5.5	4	2	10000
YXT-BB390X-16S14A0	12	5.5	4	2	10000
YXT-BB390X-24S14A0	16	7.5	4	2	10000
YXT-BB390X-30S14A0	16	7.5	4	2	10000
YXT-BB390X-40S14A0	24	11.5	4	2	10000
YXT-BB390X-50S14A0	24	11.5	4	2	10000
YXT-BB390X-60S14A0	24	11.5	4	2	10000

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YXT-BB390X-24P14A0	16	7.5	4	2	10000
YXT-BB390X-30P14A0	16	7.5	4	2	10000
YXT-BB390X-40P14A0	24	11.5	4	2	10000
YXT-BB390X-50P14A0	24	11.5	4	2	10000
YXT-BB390X-60P14A0	24	11.5	4	2	10000

产品组装的操作说明

Instruction of application to usage

组装插头时注意事项

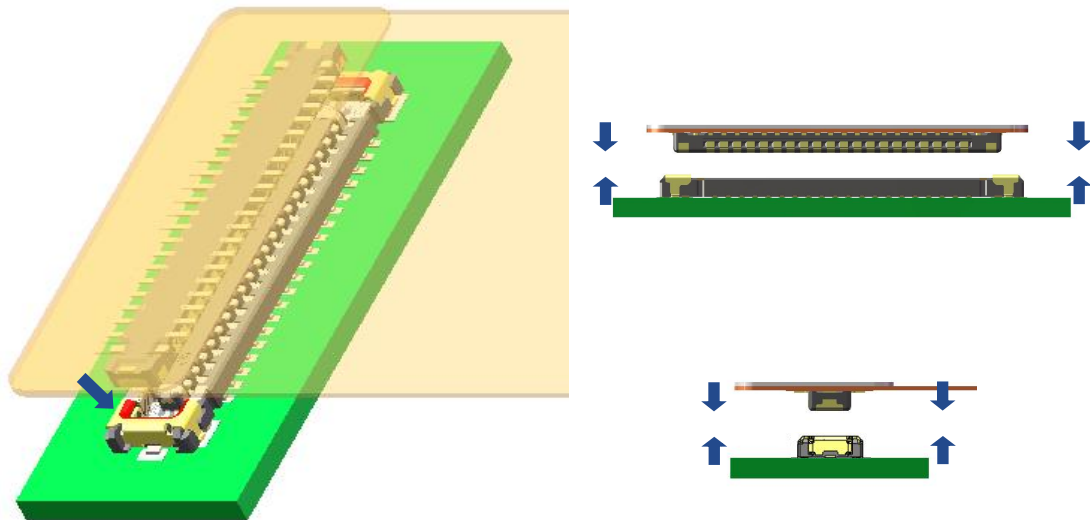
Notes when mating connector

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

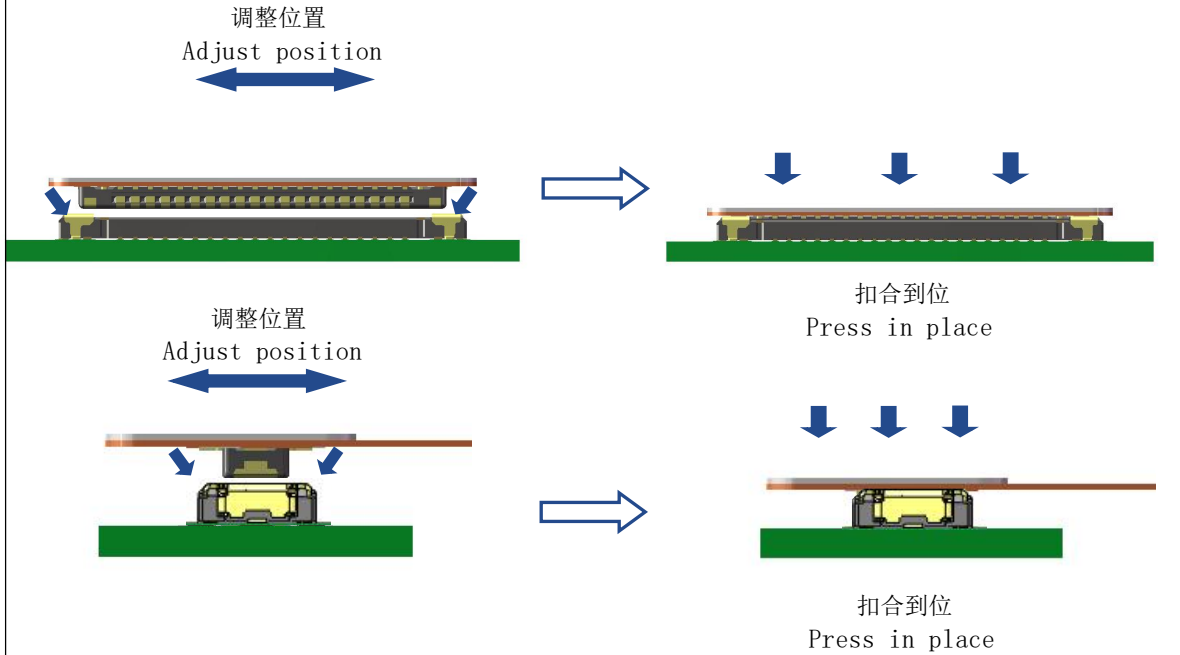
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2. 扣合连接器

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.



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拆卸插头注意事项

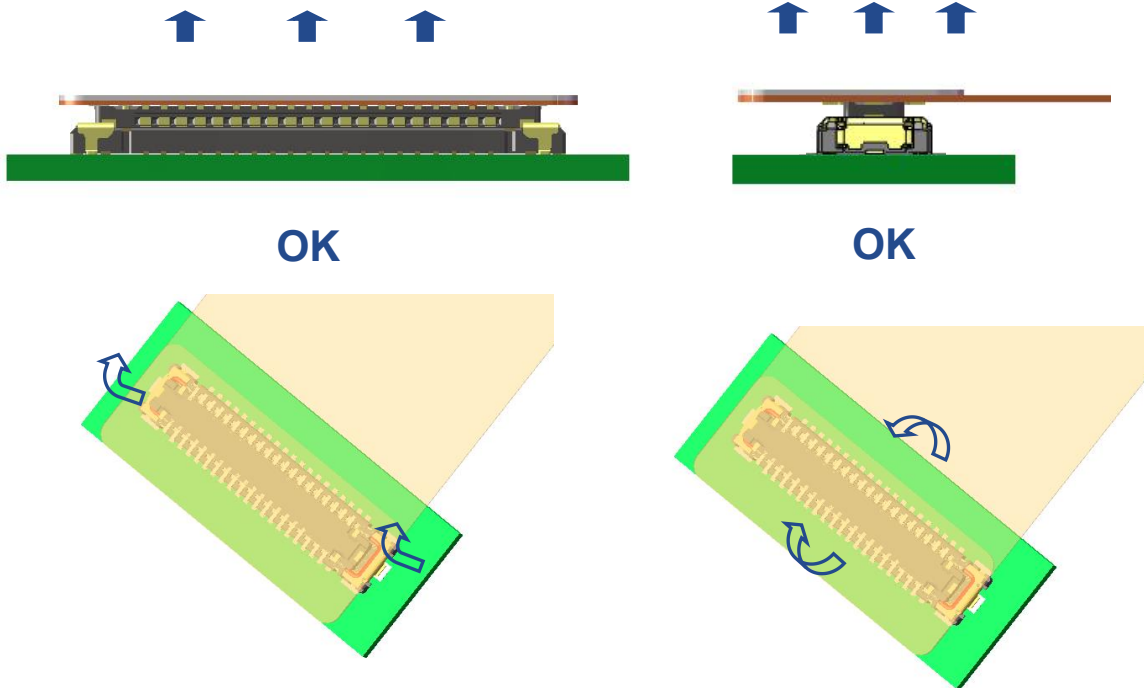
Notes when unmating connector

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

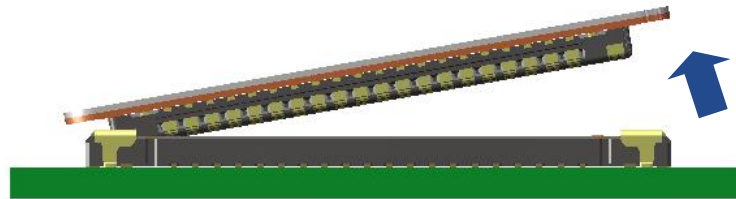
Gently shake the connector and remove it vertically at the same time

2. 纵向

倾斜的拔下插头

2. Longitudinal removal

Pull off the connector in an inclined manner



OK

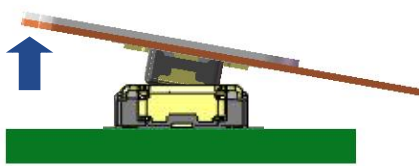
3. 横向

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。

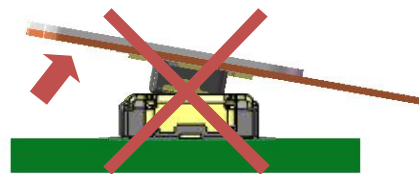
3. Lateral removal

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

Applying a large force horizontally may deform the contact.



OK



NG