

标题: PH 系列连接器

Title: PH Connector

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# 产品规格书

## PRODUCT SPECIFICATION

### 1. 更改履历 Change record

版本号 Version No.	更改前描述 Description before modification	更改后描述 Description after modification	更改人/日期 Reviser/Date
V0	/	首次发放: First release	王曲 2021/08/26 Qu.Wang 2021/08/26
V1	/	根据新的命名规范更新规格和零件号 Update specifications and part no according to new naming specifications	吴宝晓 2022/3/17 Baoxiao.Wu 2022/3/17
V2	/	添加 PH- nYI 连接器连接器 Added PH-nYI connector	吴建晓 2022/5/25 Jianxiao.Wu 2022/5/25
V3	CH-PH-nYI:绝缘直径: φ0.83mm-φ1.0mm CH-PH-nYI: Insulation diameter:φ0.83mm-φ1.0mm	CH-PH-nYI:绝缘直径: φ0.75mm-φ1.05mm CH-PH-nYI: Insulation diameter:φ0.75mm-φ1.05mm	尹恒 2022/6/24 Heng.Yin 2022/6/24
V4	/	更新 PH-nYI 导线及适用范围 Update PH-nYI wire and scope of application	尹恒 2022/7/7 Heng.Yin 2022/7/7
V5	PH-nAWBJ 产品缺少 PA10T 材料 PH-nAWBJ product lacks PA10T material	更新 PH-nAWBJ 产品材料信息 Update PH-nAWBJ product material information	尹恒 2022/8/1 Heng.Yin 2022/8/1
V6	/	更新 CH-PH 图纸、新增尺寸管控 Update CH-PH drawings and add dimension control	尹恒 Heng.Yin 2022/9/21
V7	/	更新 PH-nAWBJ、PH-nAB 使用材料 Update PH-nAWBJ, PH-nAB using materials	尹恒 Heng.Yin 2022/11/1
V8	/	新增 PH-nAB 产品包装方式 New PH-nAB product packaging	尹恒 Heng.Yin 2022/12/17

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### 2. 适用范围 Scope

本产品规格书适用于浙江合兴电子元件有限公司生产的 WTB 2.0 阴型 & 阳型电子连接器，产品名称：PH 系列连接器。

This product specification covers the requirement for wire to board 2.0mm pitch Receptacle & Plug connector, which are designed and manufactured by CWB Electronics(ZheJiang) Co.,LTD. P/N: PH Connector.

### 3. 产品描述 Product description

PH 系列连接器产品为家电连接器产品，产品部件组成如下：

The PH series connector designed for home appliances connection. part checklist as following form:

Part name 零件名称	Part No. 规格型号	Previous part No. 曾用规格型号	Description 描述
插簧 Contact	CH-PH-**	CH-PH	AWG#26~AWG#24
插簧 Contact	CH-PH-1-**	CH-PH-1	AWG#28
插簧 Contact	CH-PH-2-**	CH-PH-2	AWG#22
阴连接器（绝缘位移连接） Receptacle (IDC)	PH-nYI (**-**-*)	PH-nYI	Wafer:PA66 UL94V-0 Post: Bronze Tin Plating
孔座 Housing	PH-nY (**-**-*)	PH-nY	PA66 UL94 V-0, PA66 V-2, PA66 UL94V-0 GWT750℃
孔座（含锁紧片保持结构） Housing(W/Retainer)	PHB-nY (**-**-*)	TJC20066-nY	PA66 UL94 V-0, PA66 UL94V-0 GWT750℃
锁紧片 Retainer	TJC20046-nYS(**-**-*)	TJC20046-nYS	PA66 UL94 V-0
阳连接器（立式，直插，含小弯） Header(V, DIP, W/Kink)	PH-nAK (**-**-*)	PH-nA	Wafer: PA66 UL94 V-0, PA66 V-2, PA66 +GF V-2, PA66 UL94 V-0 GWT750℃ Post: Brass, tin plated
阳连接器（立式，直插） Header(V, DIP)	PH-nA(**-**-*)	PH-nA-1	Wafer: PA66 UL94 V-0, PA66 V-2 Post: Brass, tin plated
阳连接器（立式，直插） Header(V, DIP)	PH-nA2.8(**-**-*)	PH-nA-2.8	Wafer: PA66 UL94 V-0, PA66 V-2, PA66 +GF V-2 Post: Brass, tin plated
阳连接器（卧式，直插，含小弯） Header(H, DIP, W/Kink)	PH-nAWK (**-**-*)	PH-nAW	Wafer: PA66 UL94 V-0,PA66 V-2, PA66 UL94V-0 GWT750℃ Post: Brass, tin plated
阳连接器（卧式，直插） Header(H, DIP)	PH-nAW(**-**-*)	PH-nAW-1	Wafer: PA66 V-2 Post: Brass, tin plated
阳连接器（立式，直插，含定位柱，含小弯） Header(V, DIP, W/Boss, W/Kink)	PH- nADK(**-**-*)	PH- nAD	Wafer: PA66 UL94 V-0 Post: Brass, tin plated
阳连接器（卧式，直插，带挡板，含小弯） Header(H, DIP, W/PCB stabilizer, W/Kink)	PH-nAWJK (**-**-*)	PH-nAWJ	Wafer: PA66 UL94 V-0, PA66 V-2, PA66 +GF V-2, PA66 UL94 V-0 GWT750℃ Post: Brass, tin plated

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Part name 零件名称	Part No. 规格型号	Previous part No. 曾用规格型号	Description 描述
阳连接器 (卧式, 直插, 带挡板) Header(H, DIP, W/PCB stabilizer)	PH-nAWJ2.4(**-*)	PH-nAWJ-2.4	Wafer: PA66 UL94 V-0,PA66 V-2 Post: Brass, tin plated
阳连接器 (卧式, 直插, 带挡板, 含小弯) Header(H, DIP, W/PCB stabilizer, W/Kink)	PH-nAWJDK(**-*)	PH-nAWDJ	Wafer: PA66 UL94 V-0,PA66 V-2 Post: Brass, tin plated
阳连接器 (卧式, 表面装贴, 带挡板) Header(H, SMT, W/PCB stabilizer)	PH-nAWBJ(**-*)	PHC-nA	Wafer:PA9T+GF UL94 V-0/PA10T+GF UL94 V-0/LCP UL94 V-0 Post: Brass, tin plated
阳连接器 (立式, 表面装贴) Header(V, SMT)	PH-nAB **(**-*)	PHB- nA	Wafer: PA9T+GF UL94 V-0/PA10T+GF UL94 V-0 Post: Brass, tin plated
阳连接器 (立式, 表面装贴, 带吸嘴盖) Header(V, SMT, With cover )	PH-nABX(**-*)	PH-nAB-1	Wafer: PA9T+GF UL94 V-0/PA10T+GF UL94 V-0 Post: Brass, tin plated

#### 4.相关标准 Related standards

以下参考文件是本规格书的一个组成部份。若本规格书中的要求与产品图纸发生冲突,以产品图中的要求为优先;若本规格书中的要求与参考文件中的要求冲突,以本规格书要求为优先。

The following documents form a part of this specification. In the event of conflict between the requirements of this specification and the product drawing, the product drawing shall take precedence. In the event of conflict between the requirements of this specification and the referenced documents, this specification shall take precedence.

- GB/T 2421 环境试验 概述和指南  
Environmental testing — General and guidance
- GB/T 2423 环境试验 试验方法  
Environmental testing — Test methods
- GB/T 2424 环境试验 支持文件及导则  
Environmental testing — Supporting documentation and guidance
- GB/T 5095 电子设备用机电元件基本试验规程及测量方法  
Electromrchanical components for electronic equipment Basic testing procedures and measuring methods
- EIA-364 EIA-364 系列标准  
EIA-364 series standards
- IPC EIA IPC JEDEC J STD 002E 连接器 / 插座终端可焊性测试方法  
Solderabilith Tests for Component Leads, Terminations, Lugs, Terminals and Wires

产品符合 RoHS 标准。

The product should comply with RoHS.

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### 5. 参数范围 Parameter ratings:

额定电流 [AC(有效值)/DC] Rated current [AC(rms)/DC]	AWG#28 1.0A Max.	AWG#26 1.5A Max.	AWG#24 2.0A Max.	AWG#22 2.5A Max.
适用 PCB 板 Applicable PCB	Board thickness: 0.8mm-1.6mm Hole diameter: $\phi$ 0.7mm- $\phi$ 0.8mm			
额定电压[AC(有效值)/DC] Rated voltage [AC(rms)/DC]	250V			
使用温度范围（包含温升） Operating temperature range (include temperature rise)	-30°C ~ +85°C			
适用线型（具体适用线型请参考 压接规格书） Applicable wires(Please refer to the crimping specification for details)	Crimp Conn.	CH-PH	Wire size: AWG#26~AWG#24 (0.13mm <sup>2</sup> ~0.2mm <sup>2</sup> ) Insulation diameter: $\phi$ 1.3mm~ $\phi$ 1.4mm	
		CH-PH-1	Wire size: AWG#28 (0.08mm <sup>2</sup> ) Insulation diameter: $\phi$ 1.2mm	
		CH-PH-2	Wire size: AWG#22(0.33mm <sup>2</sup> ) Insulation diameter: $\phi$ 1.6mm	
	IDC Conn.	PH-nYI	Wire size: AWG#28~AWG#26(0.08mm <sup>2</sup> ~0.13mm <sup>2</sup> ) Recommended UL Grade: UL 1061、UL10272 Insulation diameter: $\phi$ 0.75mm- $\phi$ 1.05mm	

备注：使用上述范围以外导线时，请咨询。

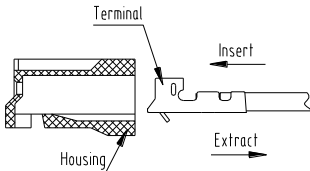
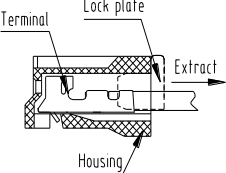
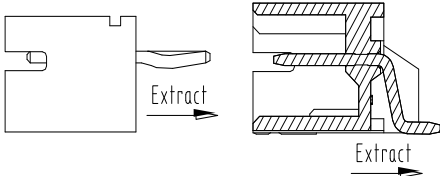
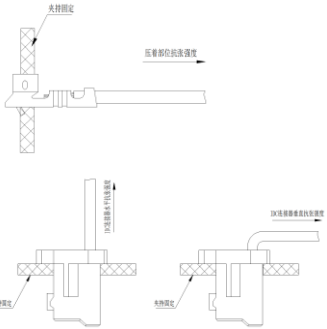
Note: please consult when using wires outside the above range.

### 6. 产品性能 Performance

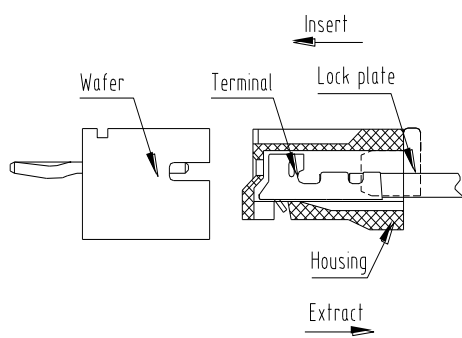
#### 6.1 机械性能 Mechanical

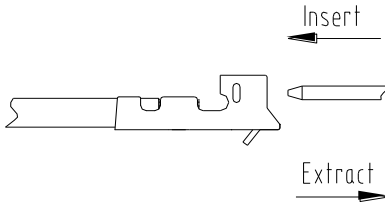
序号 No.	项 目 Item	测试条件 Test condition	规 格 Requirement
6.1.1	外观 Appearance	目测 Checking by eyes 视力: 1.0 以上 Eyesight: > 1.0 照明: (200~300) lx Lamp: (200~300) lx 目测距离: (0.3~0.5) m Space: (0.3~0.5) m <b>GB/T 5095.2 Method 1a</b>	1. 塑料件表面应无明显疤痕、凹陷、开裂及影响使用的变形。 Plastic part: smooth and flat surface without discolor, broken, crack, and distortion, etc. 2 金属件表面无锈蚀、氧化、无明显的机械损伤及电镀层脱落等缺陷。 Metal part: bright and even surface without rust, oxide, fog and obvious physical damage, etc.

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<p>6.1.2</p>	<p>端子插入力与固定力 Insertion force and retention force for contact</p>	<p>应测量将端子沿轴线方向插入孔座和拔出孔座的力，测试速度不大于25 mm/min。 The force of inserting and pulling the contact into and out of the housing along the axis shall be measured (Testing speed: &lt;25 mm/min.) <b>GB/T 5095.8 Method 15d / EIA-364-29B</b>应测(不带锁紧片)</p>  <p>(带锁紧片)</p> 	<p>插入力 (Insertion force) Max.</p>	<p>固定力 (不带锁紧片测试) Retention force (Test without lock plate) Min.</p>	<p>固定力 (带锁紧片测试) Retention force (Test with lock plate) Min.</p>
<p>10N</p>	<p>15N</p>	<p>20N</p>			
<p>6.1.3</p>	<p>针的固定力 Post retention force</p>	<p>沿插针轴线方向施加推力，测量将插针从塑件上分离的力，测试速度不大于 25 mm/min。 The end of a post shall be pushed in a direction perpendicular to a wafer. The load required to make the post start moving from the wafer shall be measured. (Testing speed: &lt;25 mm/min.) <b>GB/T 5095.8 Method 15a / EIA-364-29B.</b></p> 	<p>压着式连接器 Crimp Conn. 10N Min. 刺破式连接器 IDC Conn. 4.9 N Min.</p>		
<p>6.1.4</p>	<p>压着部位抗张强度 Crimp tensile strength</p>	<p>在已压接端子的头部和导线上施加拉力，并测量将导线从端子拉出或导线断裂所需的力，测试速度 1~5 mm/sec。 Pulling load shall be applied to a correctly crimped contact and a wire. The load required to pull the wire out of the contact or break the wire shall be measured. (Testing speed: 1~5 mm/sec.)</p>  <p><b>GB/T5095.8 Method 16d / EIA-364-08B</b></p>	<p>压着式连接器 Crimp Conn. AWG#28: 10N Min. AWG#26: 20N Min. AWG#24: 30N Min. AWG#22: 40N Min. 刺破式连接器 IDC Conn. 垂直张力: AWG#28: 11.8N Min. AWG#26: 11.8N Min. 水平张力: AWG#28: 14.7N Min. AWG#26: 19.6N Min.</p>		

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6.1.5	成品插入力与拔出力 Insertion force and withdrawal force	<p>将装有已压接端子的孔座与阳连接器做插入和拔出, 测量首次插入力、首次拔出力及第50次拔出力, 测试速度不大于25 mm/min。 A housing with crimped contacts and a header shall be mated and unmated on the mating axis. Initial insertion and withdrawal forces and withdrawal force at 50th shall be measured. (Testing speed: &lt;25 mm/min.) <b>GB/T 5095.7 Method 13b / EIA-364-13B</b></p> 	No. of poles 极数	插入力 (最大值) Insertion (Max.) 初次 1st.	拔出力 (最小值) Withdrawal (Min.) 初次 1st.      第五十次 50th.	
			2	24.5N	7.8N	5.9N
			3	29.4N	7.8N	5.9N
			4	34.3N	9.8N	7.8N
			5	39.2N	9.8N	7.8N
			6	44.1N	11.8N	9.8N
			7	49N	11.8N	9.8N
			8	53.9N	13.7N	11.8N
			9	58.8N	13.7N	11.8N
			10	63.7N	15.7N	13.7N
			11	68.6N	15.7N	13.7N
			12	73.5N	17.7N	15.7N
			13	78.5N	19.6N	17.7N
			14	78.5N	19.6N	17.7N
			15	78.5N	19.6N	17.7N
			16	93.1N	25.5N	21.6N
			6.1.6	机械振动 Vibration	<p>插合连接器, 串联在直流电源上, 电流100mA; 并模拟正常工作状态: 振频为 (10~55~10) Hz, 每个循环时间为1分钟, 振幅1.52mm。沿XYZ三轴正反方向各循环2小时 Mate connectors subjected them to following vibration conditions, for a period of 2 hours in each of 3 mutually perpendicular axes, 100 mA current shall be applied. Frequency: (10~55~10)Hz/min. Cycling time: 1 min. Amplitude: 1.52mm. <b>GB/T 5095.4 Method 6d / EIA-364-28D</b></p>	<p>外观: 无损伤 (参照6.1.1) Appearance: no damage.( refer to 6.1.1) 接触电阻: 20mΩ Max. Contact resistance: 20mΩ Max. 电流中断时间: 1μsec Max. Current interruption: 1μsec Max.</p>
6.1.7	机械冲击 Shock	<p>连接器相配, 沿XYZ三轴正反方向各冲击3次 (总共18次), 在测试过程中通以100mA电流 冲击强度: 490m/s<sup>2</sup> 持续时间: 11ms Mate connectors and subject them to the following shock conditions, 3 times of shock shall be applied for each 6 directions along 3 mutually perpendicular axes, passing DC 100mA current during the test.(total of 18 shocks) Test pulse: 490m/s<sup>2</sup> Duration: 11ms <b>GB/T 5095.4 Method 6c / EIA-364-27B</b></p>	<p>外观: 无损伤 (参照6.1.1) Appearance: no damage.( refer to 6.1.1) 电流中断时间: 1μsec Max. Current interruption: 1μsec Max.</p>			
6.1.8	机械寿命 Durability	<p>以每分钟 10 次的速度插拔 50 次 50 cycles for mating and unmating test at the speed of 10 cycles per minute <b>GB/T 5095.5 Method 9a / EIA-364-09C</b></p>	<p>外观: 无损伤 (参照6.1.1) Appearance: no damage.( refer to 6.1.1) 接触电阻: 20mΩ Max. Contact resistance: 20mΩ Max.</p>			

6.1.9	端子的插拔力 Insertion and withdrawal force for pin in the contact	<p>固定连接器和/或测力计，在端子轴线方向将插针插入和拔出插簧，测试速度不大于 25 mm/min。 Insert the pin contact into and pull out the socket contact in the direction of the terminal axis (Testing speed: &lt;25 mm/min.)</p> <p><b>GB/T 5095.7 Method 13b / EIA-364-13B</b></p> 	<p>插入力: 8N Max. Insertion force: 8N Max. 拔出力: 1.5N Min. Withdrawal force: 1.5N Min.</p>
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## 6.2 电气性能 Electrical

序号 No.	项目 Item	测试条件 Test condition	规格 Requirement
6.2.1	接触电阻 Contact resistance	插配阴阳连接器后,用小功率电路进行测试。 Mate connectors with dry circuit to test contact resistance <b>GB/T 5095.2 Method 2a / EIA-364-23B</b>	10mΩ Max. (Initial) 20mΩ Max. (Final)
6.2.2	绝缘电阻 Insulation resistance	在相邻接触件之间或地线之间,用 500V DC 电压进行测试。 Apply a voltage of 500V DC between adjacent contacts and between contacts to ground. <b>GB/T 5095.2 Method 3a / EIA-364-21C</b>	1000 MΩ Min. ( Initial) 500 MΩ Min. (Final)
6.2.3	耐电压 Withstand voltage	相邻接触件之间或地线之间施加 800V AC (有效值), 漏电流 1mA 的电压作用,时间 1min. Apply a voltage of 800V AC (rms) and leakage current of 1mA between adjacent contacts or ground cables for 1 minute. <b>GB/T 5095.2 Method 4a / EIA-364-20B</b>	外观: 无击穿和飞弧现象 Appearance: no breakdown or flashover
6.2.4	温升 Temperature rise	插合连接器, 通以最大允许电流, 测温度的差值 Mate connectors and measure the temperature rise of contact when the maximum AC rated current is passed. <b>GB/T 5095.3 Method 5a / EIA-364-70A</b>	Δ30℃ Max.

## 6.3 环境性能 Environmental

序号 No.	项目 Item	测试条件 Test condition	规格 Requirement
6.3.1	耐高温 Heat resistance	连接器配合后, 于 (105±2)℃ 的空气中放置 250 小时, 再回到室温中放置 (1~2) 小时测定 Mated connectors exposed to the condition of (105±2)℃ for 250 hours, recovery time (1~2) hours <b>GB/T 5095.6 Method 11i / EIA-364-17B</b>	外观: 无损伤 (参照6.1.1) Appearance: no damage.( refer to 6.1.1) 接触电阻: 20mΩ Max. Contact resistance: 20mΩ Max. 绝缘电阻: 500 MΩ Min. Insulation resistance:500 MΩ Min. 耐电压: 500V Min. Withstand voltage: 500V Min.

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6.3.2	耐低温 Cold resistance	连接器配合后, 于 (-40±2) °C 的空气中放置 240 小时, 再回到室温中放置 (1~2) 小时测定 Mated connectors exposed to the condition of (-40±2)°C for 240hours, recovery time (1~2) hours <b>GB/T 5095.6 Method 11j / EIA-364-17B</b>	外观: 无损伤 (参照6.1.1) Appearance: no damage.( refer to 6.1.1) 接触电阻: 20mΩ Max. Contact resistance: 20mΩ Max. 绝缘电阻: 500 MΩ Min. Insulation resistance: 500 MΩ Min. 耐电压: 500V Min. Withstand voltage: 500V Min.										
6.3.3	恒定湿热 Humidity	温度 (40±2) °C, 相对湿度 (90~95) % 搁置时间 240 小时, 取出恢复 (1~2) 小时后检查. Mated connectors exposed to the condition of temperature (40±2)°C, humidity (90~95)% for 240 hours, recovery time (1~2) hours <b>GB/T 5095.6 Method 11c /EIA-364-31B</b>	外观: 无损伤 (参照6.1.1) Appearance: no damage.( refer to 6.1.1) 接触电阻: 20mΩ Max. Contact resistance: 20mΩ Max. 绝缘电阻: 500 MΩ Min. Insulation resistance: 500 MΩ Min. 耐电压: 500V Min. Withstand voltage:500V Min.										
6.3.4	温度循环 Temperature cycling	把试验样品分别放入高、低温试验箱中, 按下列步骤调试温度: a) 在 (-55±2) °C 的恒温条件下放置 0.5 小时; b) 在 (85±2) °C 的恒温条件下放置 0.5 小时; 从 a)到 b)为一个循环, 周期温度转换时间应不大于 5 分钟, 共进行 25 个循环,恢复 (1~2) 小时后检查 Mated connectors shall be tested under the following conditions <table border="1" data-bbox="416 1084 887 1234"> <thead> <tr> <th>Temperature °C</th> <th>Duration</th> </tr> </thead> <tbody> <tr> <td>1 -55±2</td> <td>0.5h</td> </tr> <tr> <td>2 Room Temp.</td> <td>5 minutes Max.</td> </tr> <tr> <td>3 +85±2</td> <td>0.5h</td> </tr> <tr> <td>4 Room Temp.</td> <td>5 minutes Max.</td> </tr> </tbody> </table> Step 1 to 4 is one cycle,25 cycles shall be tested, recovery time (1~2) hours <b>GB/T 5095.6 method 11d / EIA-364-32C</b>	Temperature °C	Duration	1 -55±2	0.5h	2 Room Temp.	5 minutes Max.	3 +85±2	0.5h	4 Room Temp.	5 minutes Max.	外观: 无损伤 (参照6.1.1) Appearance: no damage.( refer to 6.1.1) 接触电阻: 20mΩ Max. Contact resistance: 20mΩ Max. 绝缘电阻: 500 MΩ Min. Insulation resistance: 500 MΩ Min. 耐电压: 500V Min. Withstand voltage: 500V Min.
Temperature °C	Duration												
1 -55±2	0.5h												
2 Room Temp.	5 minutes Max.												
3 +85±2	0.5h												
4 Room Temp.	5 minutes Max.												
6.3.5	硫化氢气体测试 (H <sub>2</sub> S gas test)	连接器配合后, 在温度 (40±3) °C、湿度 75%、H <sub>2</sub> S 气体浓度为 3ppm 的环境中放置 96 小时 Mated connectors exposed to the condition of temperature (40±3)°C, humidity 75%, H <sub>2</sub> S gas concentration of 3ppm for 96 hours	接触电阻: 20mΩ Max. Contact resistance: 20mΩ Max.										
6.3.6	工业气体(氨气)Industrial gas(Ammonia)(NH <sub>3</sub> )	连接器在每升容积内含25毫升3%氨溶液的氨气箱中暴露7小时 After 7 hours exposure in ammonia chamber with 25 mL of 3% ammonia solution for every liter of chamber capacity	无应力腐蚀开裂 No stress corrosion cracking										
6.3.7	盐雾 Salt spray	把试验样品从试验箱顶悬挂下来, 采用浓度为 (5±1) % (质量百分比) 的氯化钠溶液, 在 (35±2) °C 温度下连续雾化 48 小时, 试验后用流动的蒸馏水轻轻洗去表面沉积物。在常温常湿条件下恢复 (1~2) 小时 48 hours spray, at temp (35±2)°C, NaCl mist concentration (5±1)%. After test wash parts and put it into room ambient for (1~2) hours <b>GB/T 5095.6 Method 11f /EIA-364-26B</b>	外观: 无损伤 (五金件应无露出底金属的严重锈蚀; 使用预镀好的型材, 其落料面允许有不影响其性能的轻微腐蚀。) Appearance: no damage (no erosion on material exposed. and plating material, slight erosion on the cutting surface is acceptable) 接触电阻: 20mΩ Max. Contact resistance: 20mΩ Max.										

产品名称 Product Name:	PH 系列连接器	编号 Document No.	PS4110	版本号 Version No.	V8
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6.3.8	可焊性 Solderability	把试验样品需要焊接的部位浸入焊锡炉中，锡炉温度 (245±5) °C，时间 (4~5) 秒 Dip solder tails into the molten solder held at (245±5) °C for (4~5) seconds <b>EIA-364-52</b>	上锡率≥95%: Solder coverage: ≥95%
6.3.9	耐焊接热 Resistance to soldering heat	1、耐波峰焊热：把试验样品需要焊接的部位浸入焊锡炉中，锡炉温度 (260±5) °C；时间 (5±1) 秒后，在正常条件下恢复 (1~2) 小时 Resistance to wave soldering heat: Dip solder tails into the molten solder held at (260±5) °C for (5 ±1) seconds, recovery time (1~2) hours 2、手工焊接：温度 (350±10) °C，时间(1~2) seconds Manual soldering: (350±10)°C for (1~2) seconds 3、回流焊形式（适合 SMT 类产品）： 按图 1 的条件测试耐焊接热 Reflow type: The specimen shall be tested resistance, to soldering heat in the following conditions.	外观：无损伤（参照6.1.1） Appearance: no damage.( refer to 6.1.1)
6.3.10	灼热丝 Glow wire （只针对 GWT750°C 产品 Only for GWT750°C product）	750°C灼热丝顶部接触试验样品： 接触时间：(30±1) s 接近和离开速率：10mm/s~25mm/s 灼热丝进入或贯穿试验样品深度：(7±0.5) mm 750°C glow wire contacts with mated connector: Contact time: (30±1)s Speed of closing to and leaving from: 10mm/s~25mm/s Depth that glow wire penetrates mated connector: (7±0.5) mm <b>GB/T 5169.10</b>	1. 试验样品燃烧时间不超过2s。 The time that mated connector burns should be not more than 2s. 2、灼热丝离开后的30s内样件无火焰或灼热情况，且无滴落物或滴落物不燃烧。 Thirty seconds after glow wire leaves mated connector, it does not burn or have no incandescence and it does not fall something, or the falling thing does not burn.

Recommended IR Reflow Temperature Profile:  
1 Using Lead-Free Solder Paste

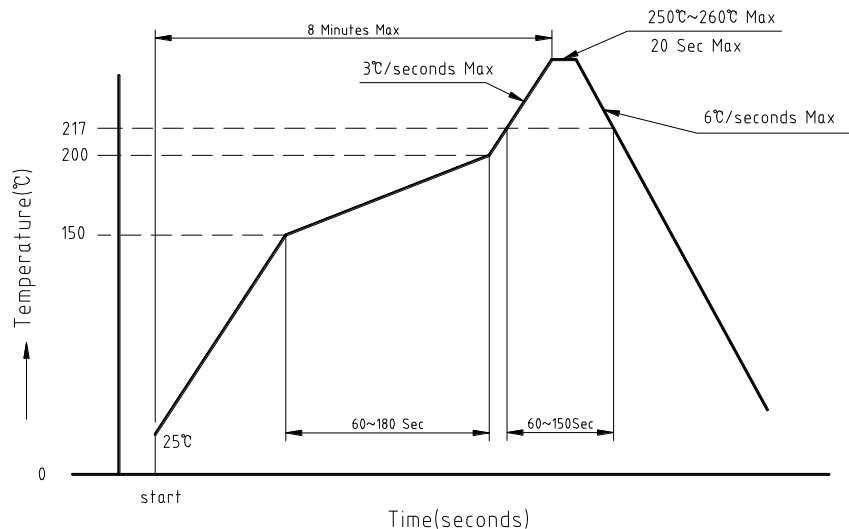


图 1 回流焊曲线图

产品名称 Product Name:	PH 系列连接器	编号 Document No.	PS4110	版本号 Version No.	V8
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# 产品规格书

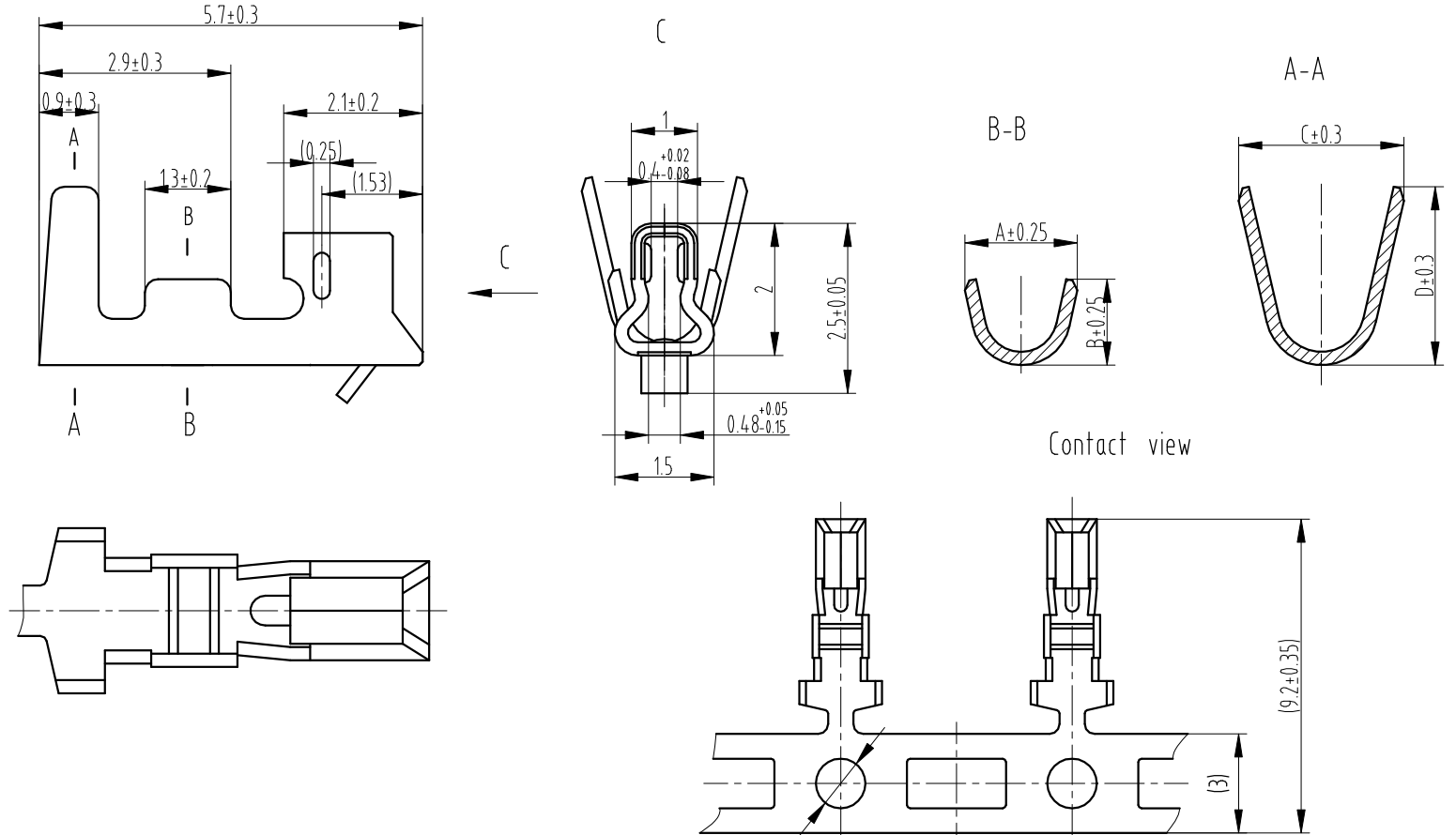
## PRODUCT SPECIFICATION

### 7.测试分组 Test sequences (Samples:5PCS)

测试组 GROUP NUMBER	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S
外观Appearance	1	1	1	1	1,5	1,3	1,7	1	1	1,7	1,7	1,7	1,7	1,5	1,3	1,5	1	1,3	1,3
端子的插入力与固定力 Insertion force and retention force for contact	2																		
针的固定力 Post retention force		2																	
压着部位抗张强度 Crimping pull out force			2																
成品插入力与拔出力（去 锁扣） Insertion force and withdrawal force(without lock)				2															
机械振动Vibration					3														
机械冲击Shock						2													
机械寿命Durability							5												
端子的插拔力 Insertion and withdrawal force for pin in the contact								2											
接触电阻 Contact resistance					2,4		2,6			2,4	2,4	2,4	2,4	2,4		2,4			
绝缘电阻Insulation resistance							3			5	5	5	5						
耐电压Withstand voltage							4			6	6	6	6						
温升Temperature rise									2										
耐高温Heat resistance										3									
耐低温 Cold resistance											3								
恒定湿热Humidity												3							
温度循环Temperature cycling													3						
硫化氢气体测试 (H <sub>2</sub> S gas test)														3					
工业气体(氨气) Industrial gas(Ammonia)(NH <sub>3</sub> )															2				
盐雾Salt spray																3			
可焊性Solderability																		2	
耐焊接热Resistance to soldering heat																			2
灼热丝 Glow wire																			2

产品名称 Product Name:	PH 系列连接器	编号 Document No.	PS4110	版本号 Version No.	V8
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General Tolerance	Dimension	Tolerance	Rev. No	Location	Description	Reviser	Date
	0~3		±0.13			Version upgrade	Bao.Xiao Wu
3~18		±0.23					
18~50		±0.35					
≥50		±0.55					

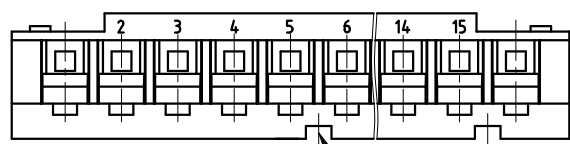
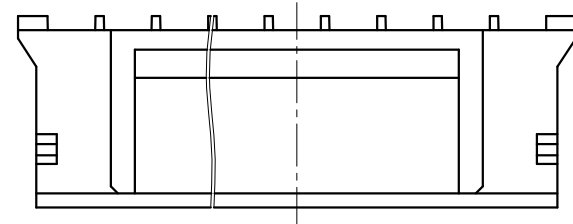
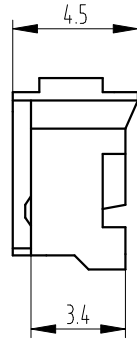
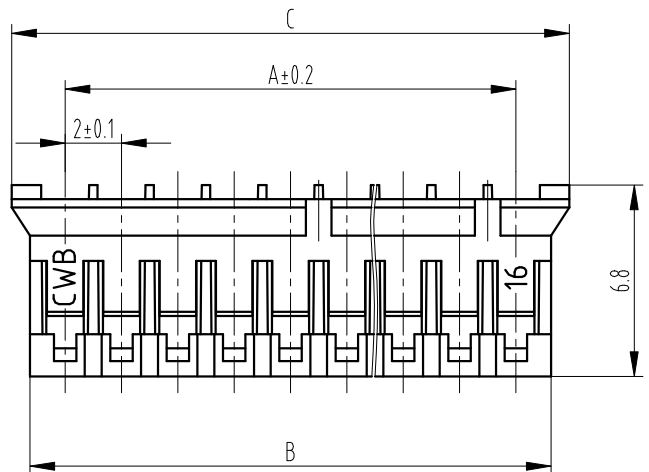


- Notes:
- 1.Material: Phosphor bronze, thickness=0.2mm
  - 2.Surface finish: Tin plated
  - 3.Matched housing: PH-nY/PHB-nY
  - 4.Applicable wires: CH-PH: AWG#26~ AWG#24  
CH-PH-1: AWG#28  
CH-PH-2: AWG#22
  - 5.Compliant to the current RoHS

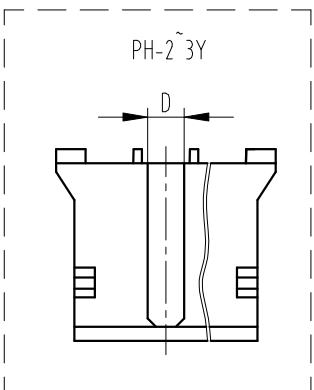
Part No.	Previous part No	Dimension			
CH-PH-2	PH-2	2.1	1.7	2.1	2.6
CH-PH-1	PH-1	1.2	1.2	1.9	1.9
CH-PH	PH	1.7	1.3	2.5	2.7
		A	B	C	D

CUSTOMER DRAWING						Title: 2.0mm pitch WTB contact	
Drawn	Naihao.Wang 2021.9.6	Unit	Scale	Size	Edition	Part No.:CH-PH-*/CH-PH-1-*/CH-PH-2-*	
Checked	GuoYing.Wang 2022.3.17	mm	10:1	A4	B1	Previous part No.: PH/PH-1/PH-2	
Approved	Dongxu.Liu 2022.3.17	Sheet No.	1 Of 1		Document No.:CP-DWG-01176		
<b>CWB</b> 浙江合兴电子元件有限公司 CWB Electronics (Zhejiang) Co., Ltd.						Specification No.:PS4110	

General Tolerance	Dimension	Tolerance	Rev. No	Location	Description	Reviser	Date
	0~3		±0.13			Version upgrade	Bao.Xiao Wu
3~18		±0.23					
18~50		±0.35					
≥50		±0.55					



There is a slot every five holes from the first hole



16	PH-16Y	30	32.5	33.8	
15	PH-15Y	28	30.5	31.8	
14	PH-14Y	26	28.5	29.8	
13	PH-13Y	24	26.5	27.8	
12	PH-12Y	22	24.5	25.8	
11	PH-11Y	20	22.5	23.8	
10	PH-10Y	18	20.5	21.8	
9	PH-9Y	16	18.5	19.8	
8	PH-8Y	14	16.5	17.8	
7	PH-7Y	12	14.5	15.8	
6	PH-6Y	10	12.5	13.8	
5	PH-5Y	8	10.5	11.8	
4	PH-4Y	6	8.5	9.8	
3	PH-3Y	4	6.5	7.8	1.3
2	PH-2Y	2	4.5	5.8	0.7
Ckts(n)	Part No.	A	B	C	D
		Dimensions			

Notes:

1.Material:

Standards: PA66 UL94V-0

Others: PA66 V-2/PA66 UL94V-0 GWT 750°C

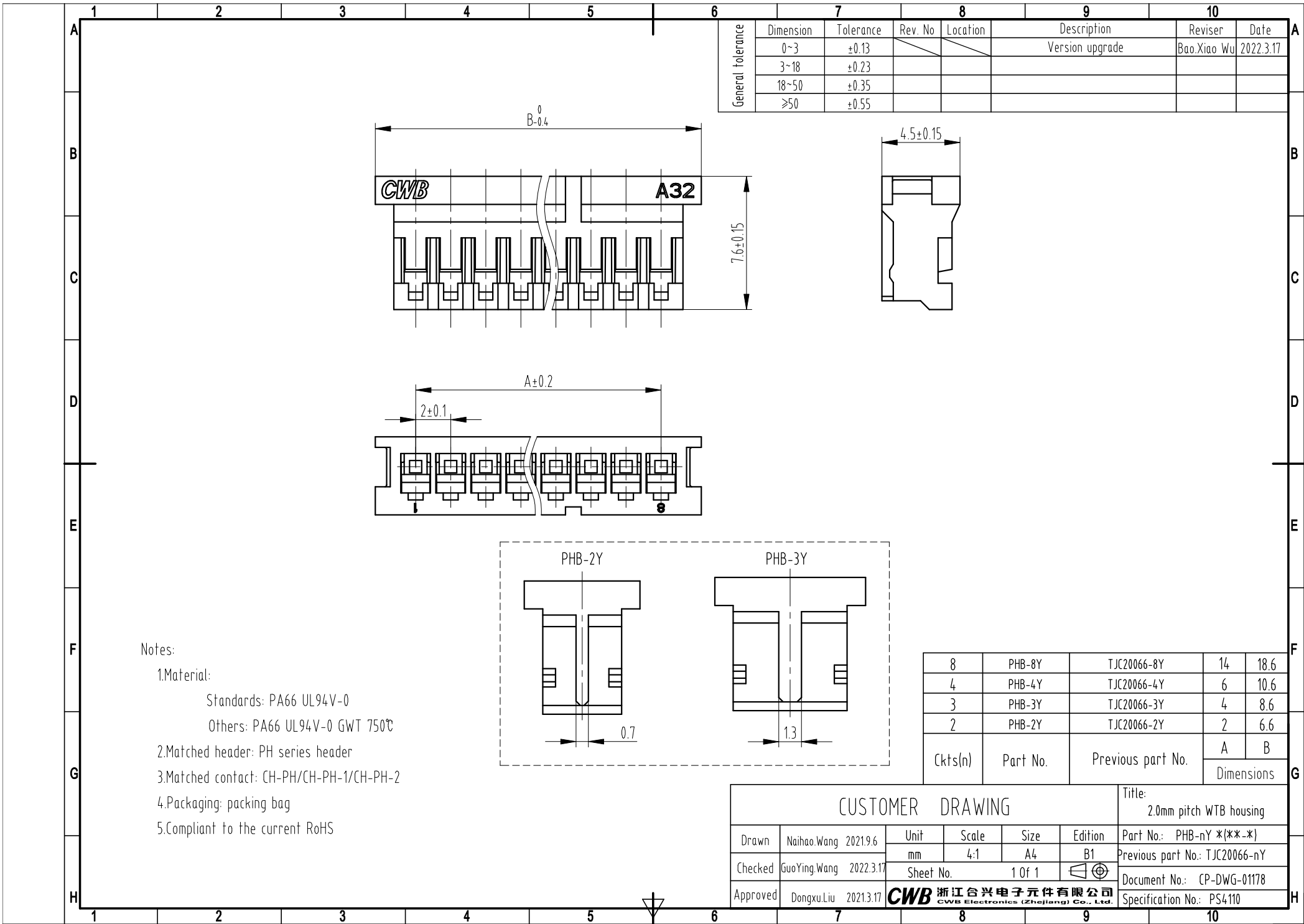
2.Matched header: PH series header

3.Matched contact: CH-PH/CH-PH-1/CH-PH-2

4.Packaging: packing bag

5.Compliant to the current RoHS

CUSTOMER DRAWING						Title: 2.0mm pitch WTB housing	
Drawn	Naihao.Wang	2021.9.6	Unit	Scale	Size	Edition	Part No.: PH-nY *(**.*)
Checked	GuoYing.Wang	2022.3.17	mm	4:1	A4	B1	Previous part No.: /
Approved	Dongxu.Liu	2022.3.17	Sheet No. 1 of 1				Document No.: CP-DWG-01177
<b>CWB</b> 浙江合兴电子元件有限公司 <small>CWB Electronics (Zhejiang) Co., Ltd.</small>							Specification No.: PS4110



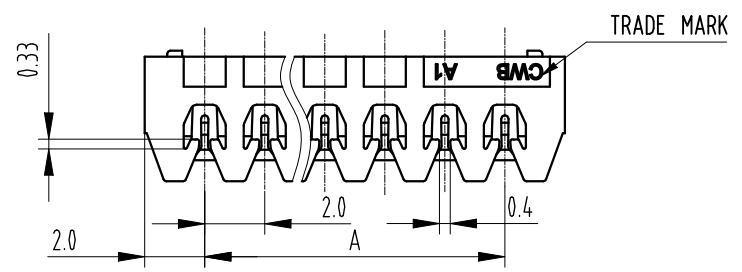
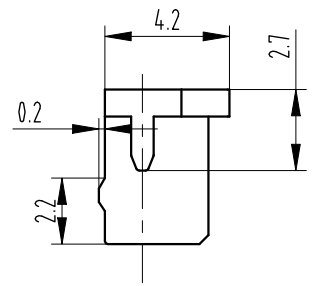
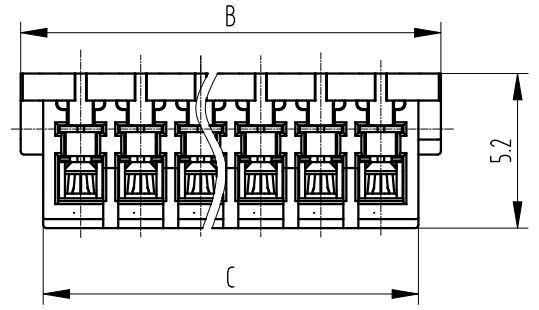
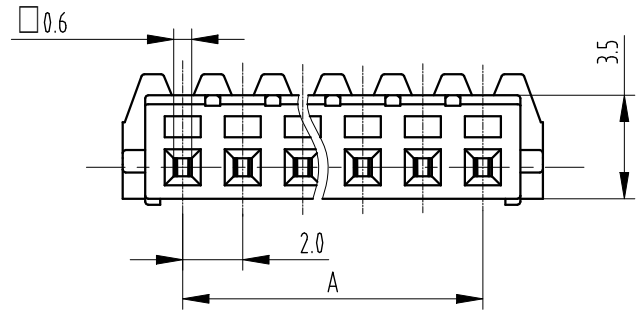
General tolerance	Dimension	Tolerance	Rev. No	Location	Description	Reviser	Date
	0~3		±0.13			Version upgrade	Bao.Xiao Wu
3~18		±0.23					
18~50		±0.35					
≥50		±0.55					

- Notes:
- Material:  
Standards: PA66 UL94V-0  
Others: PA66 UL94V-0 GWT 750℃
  - Matched header: PH series header
  - Matched contact: CH-PH/CH-PH-1/CH-PH-2
  - Packaging: packing bag
  - Compliant to the current RoHS

8	PHB-8Y	TJC20066-8Y	14	18.6
4	PHB-4Y	TJC20066-4Y	6	10.6
3	PHB-3Y	TJC20066-3Y	4	8.6
2	PHB-2Y	TJC20066-2Y	2	6.6
Ckts(n)	Part No.	Previous part No.	A	B
			Dimensions	

CUSTOMER DRAWING						Title: 2.0mm pitch WTB housing	
Drawn	Naihao.Wang	2021.9.6	Unit	Scale	Size	Edition	Part No.: PHB-nY *(**-* )
Checked	GuoYing.Wang	2022.3.17	mm	4:1	A4	B1	Previous part No.: TJC20066-nY
Approved	Dongxu.Liu	2021.3.17	Sheet No.		1 Of 1	Document No.: CP-DWG-01178	
CWB 浙江合兴电子元件有限公司 CWB Electronics (Zhejiang) Co., Ltd.						Specification No.: PS4110	

General tolerance	Dimension	Tolerance	Rev. No	Location	Description	Reviser	Date
	0~3	±0.13	/	G2	Adjust the Insulation Dia	Heng Yin	2022.6.24
	3~18	±0.23					
	18~50	±0.35					
	≥50	±0.55					

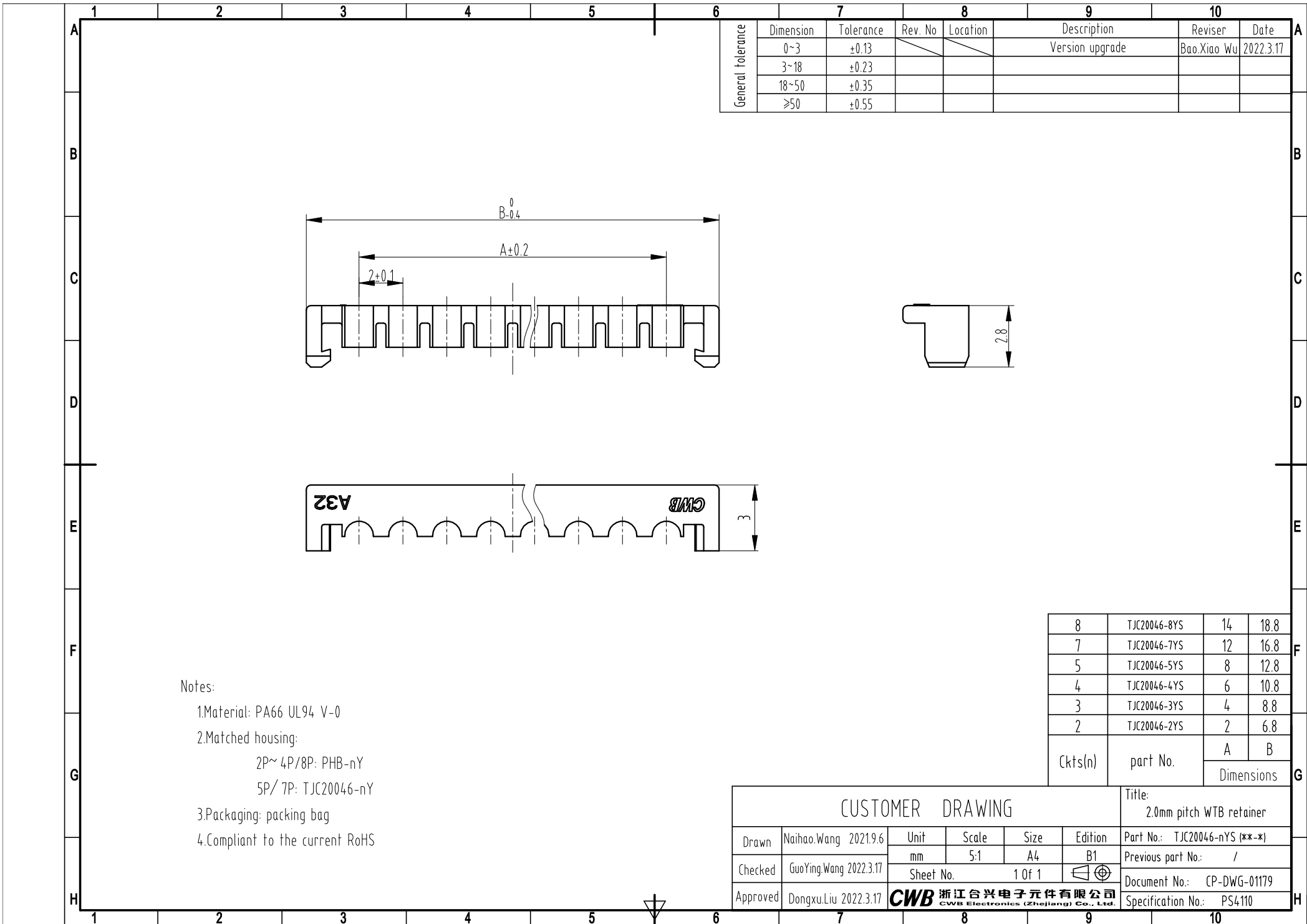


16	PH-16YI	30	34	32.5
15	PH-15YI	28	32	30.5
14	PH-14YI	26	30	28.5
13	PH-13YI	24	28	26.5
12	PH-12YI	22	26	24.5
11	PH-11YI	20	24	22.5
10	PH-10YI	18	22	20.5
9	PH-9YI	16	20	18.5
8	PH-8YI	14	18	16.5
7	PH-7YI	12	16	14.5
6	PH-6YI	10	14	12.5
5	PH-5YI	8	12	10.5
4	PH-4YI	6	10	8.5
3	PH-3YI	4	8	6.5
2	PH-2YI	2	6	4.5
Ckts(n)	Part No.	A	B	C
		Dimensions		

Notes:

- Material:  
Housing:PA66 UL94 V-0  
Contact:Phosphor bronze,Tin Plated
- Wire Size:AWG26~28  
Insulation Dia:φ0.75mm-φ1.05mm
- Packaging: Packing bag
- Compliant To The Current RoHS

CUSTOMER DRAWING						Title: 2.0mm Pitch WTB Conn. for receptacle	
Drawn	Pei Yang 2022.03.11	Unit	Scale	Size	Edition	Part No.: PH-nYI(**-*)	
Checked	Guoying.Wang 2022.06.24	mm	4:1	A4	B1	Previous part No.: /	
		Sheet No.		1 Of 1		Document No.: CP-DWG-01584	
Approved	Dongxu.Liu 2022.06.24	<b>CWB</b> 浙江合兴电子元件有限公司 <small>CWB Electronics (Zhejiang) Co., Ltd.</small>				Specification No.: PS4110	



General Tolerance	Dimension	Tolerance	Rev. No	Location	Description	Reviser	Date
	0~3	±0.13			Version upgrade	Bao.Xiao Wu	2022.3.17
	3~18	±0.23					
	18~50	±0.35					
	≥50	±0.55					

Notes:

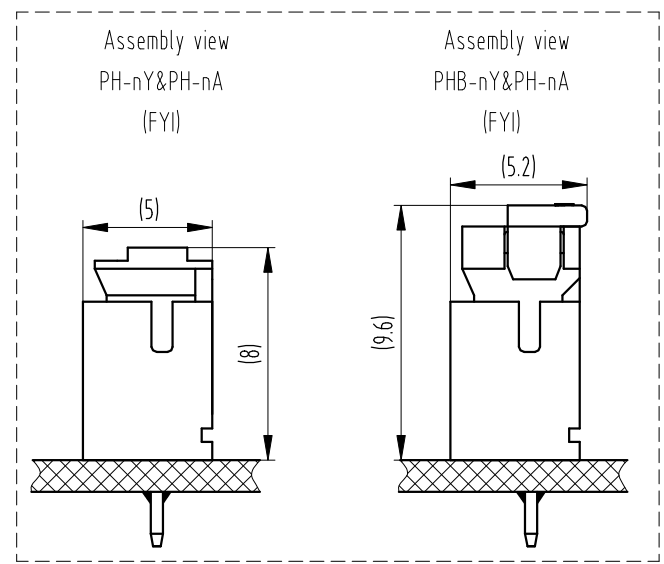
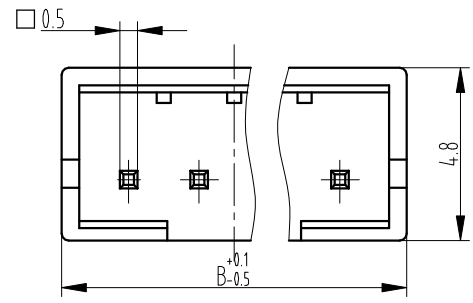
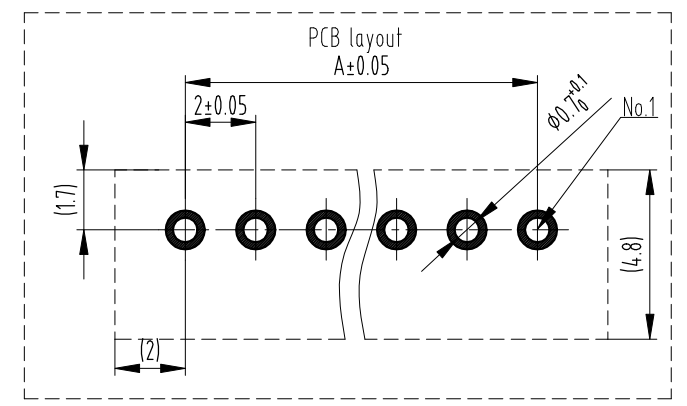
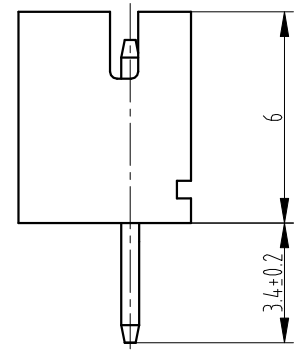
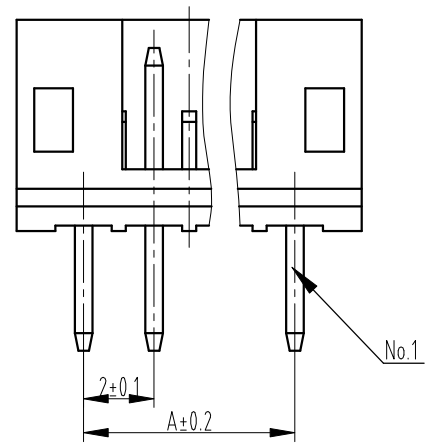
- 1.Material: PA66 UL94 V-0
- 2.Matched housing:
  - 2P~ 4P/8P: PHB-nY
  - 5P/ 7P: TJC20046-nY
- 3.Packaging: packing bag
- 4.Compliant to the current RoHS

8	TJC20046-8YS	14	18.8
7	TJC20046-7YS	12	16.8
5	TJC20046-5YS	8	12.8
4	TJC20046-4YS	6	10.8
3	TJC20046-3YS	4	8.8
2	TJC20046-2YS	2	6.8
Ckts(n)	part No.	A	B
		Dimensions	

CUSTOMER DRAWING						Title: 2.0mm pitch WTB retainer	
Drawn	Naihao.Wang 2021.9.6	Unit	Scale	Size	Edition	Part No.: TJC20046-nYS (**-*)	
Checked	GuoYing.Wang 2022.3.17	mm	5:1	A4	B1	Previous part No.: /	
		Sheet No.		1 Of 1		Document No.: CP-DWG-01179	
Approved	Dongxu.Liu 2022.3.17	<b>CWB</b> 浙江合兴电子元件有限公司 CWB Electronics (Zhejiang) Co., Ltd.				Specification No.: PS4110	



General tolerance	Dimension	Tolerance	Rev. No	Location	Description	Reviser	Date
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3~18		±0.23					
18~50		±0.35					
≥50		±0.55					



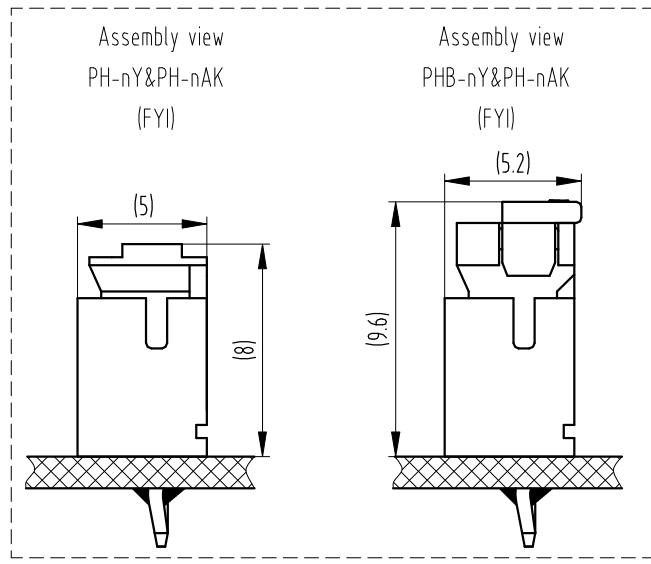
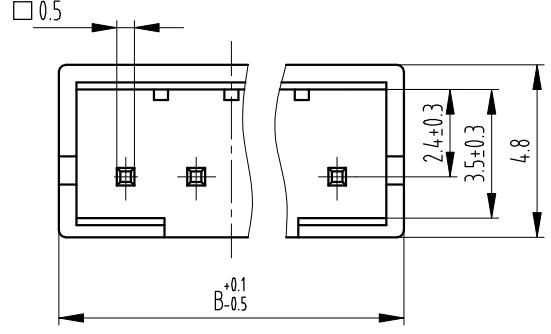
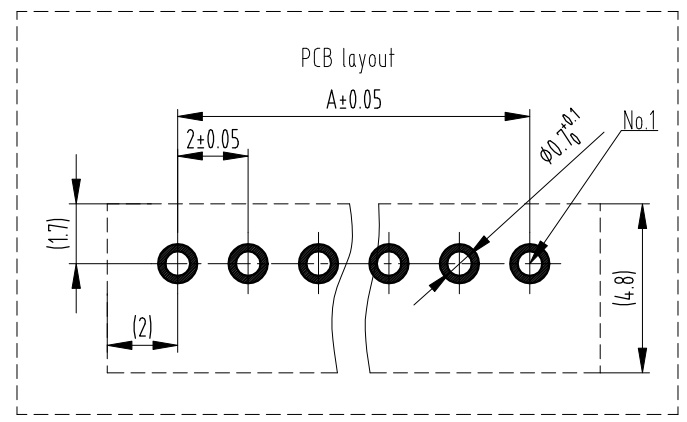
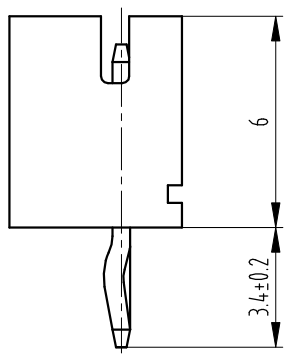
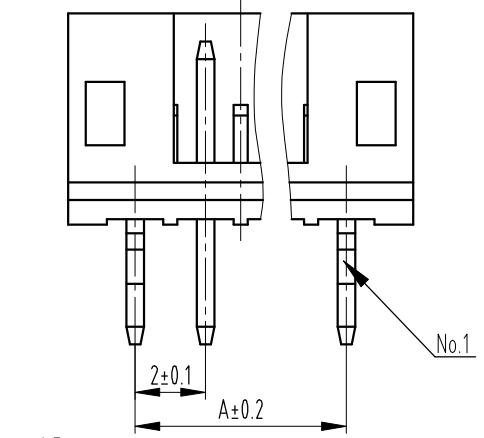
16	PH-16A	PH-16A-1	30	34
15	PH-15A	PH-15A-1	28	32
14	PH-14A	PH-14A-1	26	30
13	PH-13A	PH-13A-1	24	28
12	PH-12A	PH-12A-1	22	26
11	PH-11A	PH-11A-1	20	24
10	PH-10A	PH-10A-1	18	22
9	PH-9A	PH-9A-1	16	20
8	PH-8A	PH-8A-1	14	18
7	PH-7A	PH-7A-1	12	16
6	PH-6A	PH-6A-1	10	14
5	PH-5A	PH-5A-1	8	12
4	PH-4A	PH-4A-1	6	10
3	PH-3A	PH-3A-1	4	8
2	PH-2A	PH-2A-1	/	6
Ckts(n)	Part No.	Previous part No.	A	B
			Dimensions	

Note:

- Material Wafer: Standards: PA66 UL94 V-0 Others: PA66 V-2 Post: Brass, tin plated
- Matched housing: PH-nY/PHB-nY
- Packaging: packing bag
- Compliant to the current RoHS

CUSTOMER DRAWING						Title: 2.0mm pitch WTB header	
Drawn	Naihao.Wang 2021.9.6	Unit	Scale	Size	Edition	Part No.: PH-nA(**-*)	
Checked	GuoYing.Wang 2022.3.17	mm	5:1	A4	B1	Previous part No.: PH-nA-1	
Approved	DonqXu.Liu 2022.3.17	Sheet No.	1 of 1		Document No.: CP-DWG-01190		Specification No.: PS4110
<b>CWB</b> 浙江合兴电子元件有限公司 CWB Electronics (Zhejiang) Co., Ltd.							

General Tolerance	Dimension	Tolerance	Rev. No	Location	Description	Reviser	Date
	0~3	±0.13					
	3~18	±0.23					
	18~50	±0.35					
	≥50	±0.55					



16	PH-16AK	PH-16A	30	34
15	PH-15AK	PH-15A	28	32
14	PH-14AK	PH-14A	26	30
13	PH-13AK	PH-13A	24	28
12	PH-12AK	PH-12A	22	26
11	PH-11AK	PH-11A	20	24
10	PH-10AK	PH-10A	18	22
9	PH-9AK	PH-9A	16	20
8	PH-8AK	PH-8A	14	18
7	PH-7AK	PH-7A	12	16
6	PH-6AK	PH-6A	10	14
5	PH-5AK	PH-5A	8	12
4	PH-4AK	PH-4A	6	10
3	PH-3AK	PH-3A	4	8
2	PH-2AK	PH-2A	/	6
Ckts	Part No.	Previous part No.	Dimensions	
			A	B

Note:

1.Material  
Wafer:  
Standards: PA66 UL94 V-0  
Others: PA66 V-2/PA66 +GF V-2/  
PA66 UL94V-0 GWT 750°C

Post: Brass, tin plated

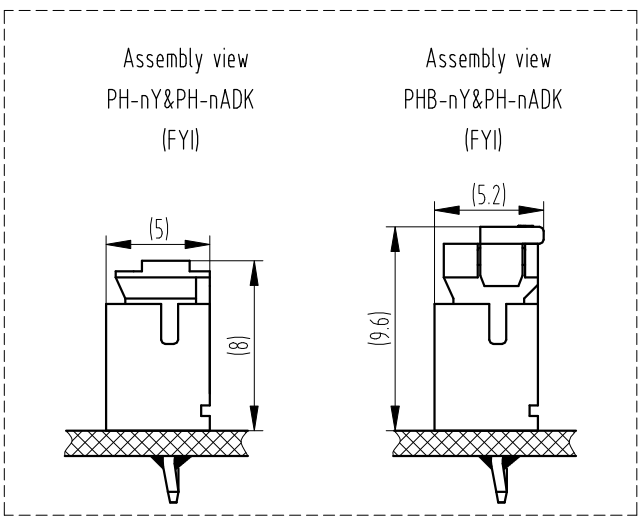
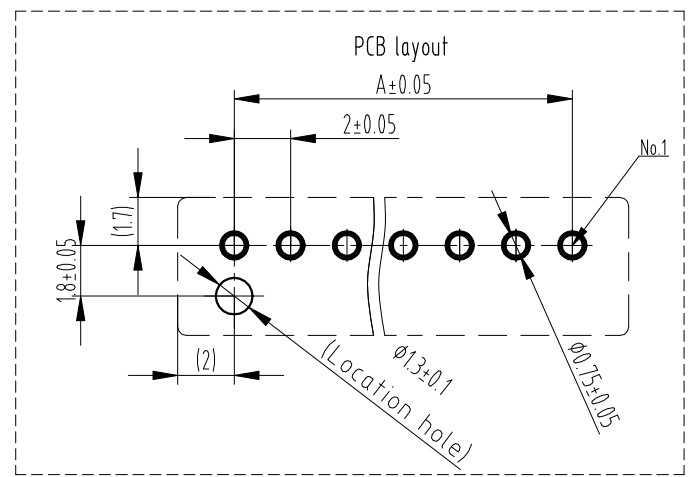
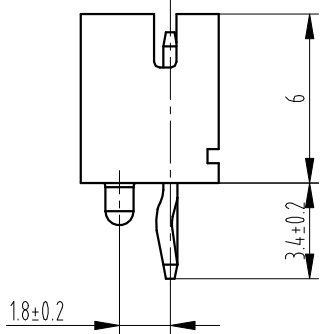
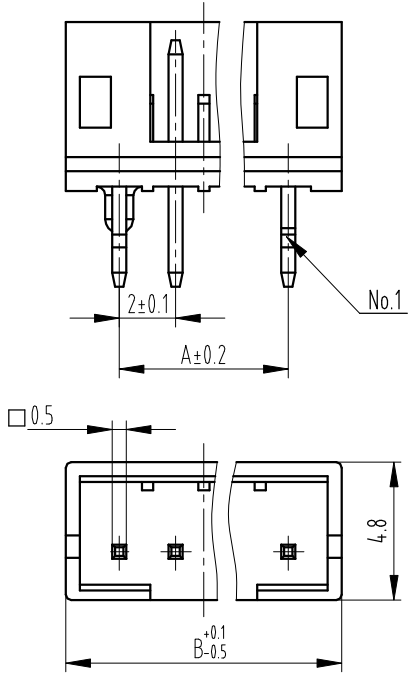
2.Matched housing: PH-nY/PHB-nY

3.Packaging: packing bag

4.Compliant to the current RoHS

CUSTOMER DRAWING							Title: 2.0mm Pitch WTB header	
Drawn	Naihao.Wang	2021.9.6	Unit	Scale	Size	Edition	Part No.: PH-nAK *(**~*)	
Checked	Qu.Wang	2021.9.6	mm	5:1	A4	B0	Previous part No.: PH-nA	
			Sheet No.		1 Of 1		Document No.: CP-DWG-01180	
Approved	Dongxu.Liu	2021.9.6	CWB 浙江合兴电子元件有限公司			Specification No.: PS4110		
							CWB Electronics (Zhejiang) Co., Ltd.	

General tolerance	Dimension	Tolerance	Rev. No	Location	Description	Reviser	Date
	0~3		±0.13			Version upgrade	Bao.Xiao Wu
3~18		±0.23					
18~50		±0.35					
≥50		±0.55					



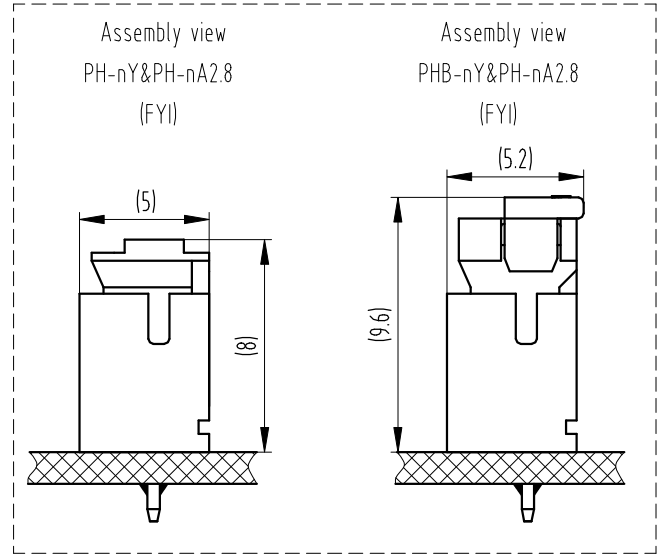
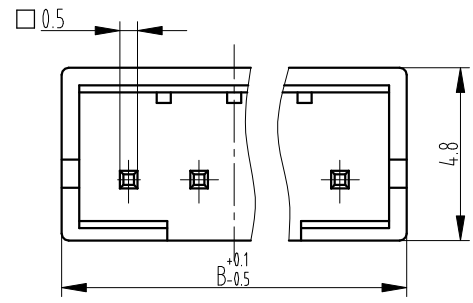
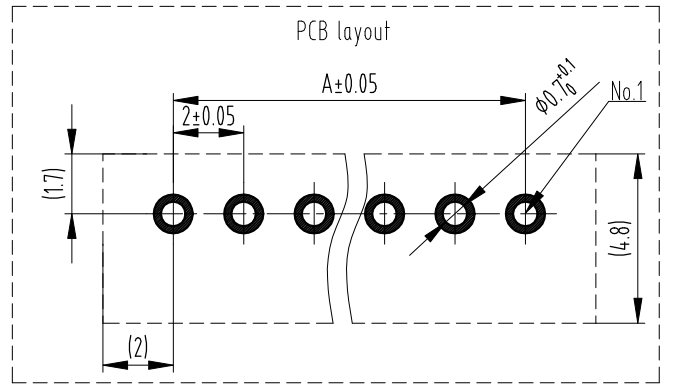
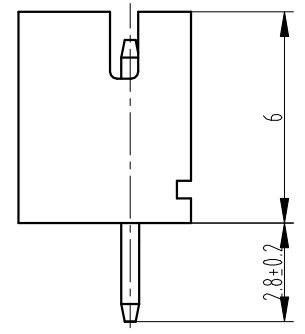
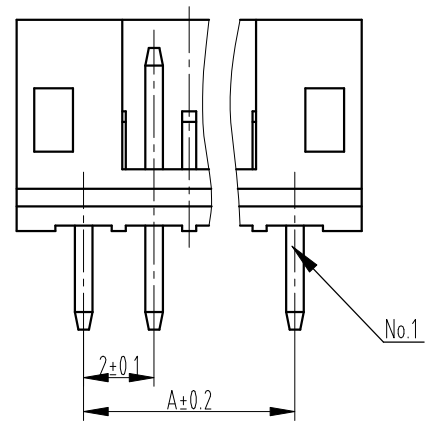
Notes:

- 1.Material:  
Wafer: PA66 UL94 V-0  
Post: Brass, tin plated
- 2.Matched housing: PH-nY/PHB-nY
- 3.Packaging: packing bag
- 4.Compliant to the current RoHS

10	PH-10ADK	PH-10AD	18	22
8	PH-8ADK	PH-8AD	14	18
5	PH-5ADK	PH-5AD	8	12
Ckts(n)	Part No.	Previous part No.	A	B
			Dimensions	

CUSTOMER DRAWING						Title: 2.0mm pitch WTB header	
Drawn	Naihao.Wang 2021.9.6	Unit	Scale	Size	Edition	Part No.: PH-nADK(**-*)	
Checked	GuoYing.Wang 2022.3.17	mm	4:1	A4	B1	Previous part No.: PH-nAD	
Approved	Dongxu.Liu 2022.3.17	Sheet No. 1 of 1		Document No.: CP-DWG-01182		Specification No.: PS4110	
<b>CWB</b> 浙江合兴电子元件有限公司 CWB Electronics (Zhejiang) Co., Ltd.							

General tolerance	Dimension	Tolerance	Rev. No	Location	Description	Reviser	Date
	0~3	±0.13			Version upgrade	Bao.Xiao Wu	2022.3.17
	3~18	±0.23					
	18~50	±0.35					
≥50	±0.55						



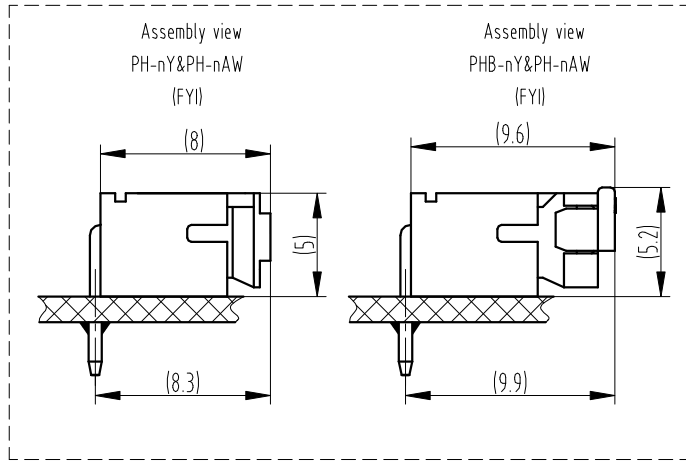
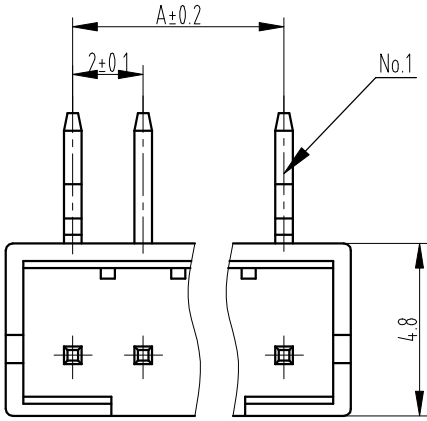
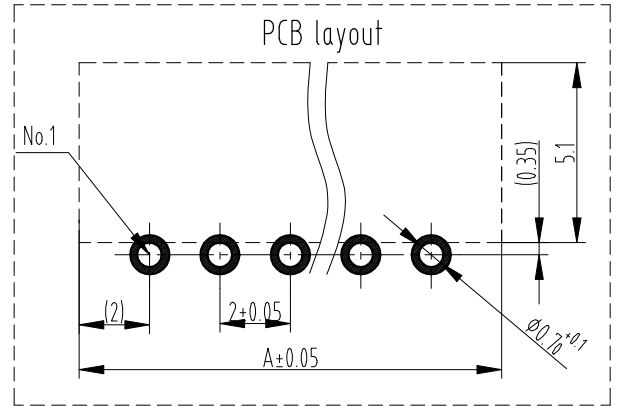
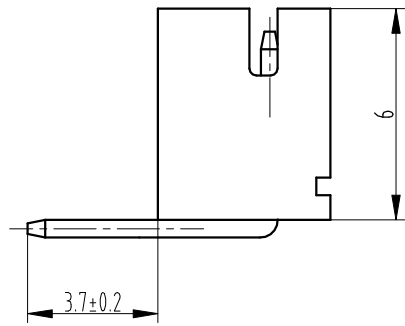
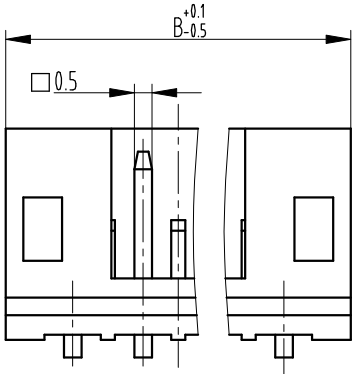
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15	PH-15A2.8	PH-15A-2.8	28	32
14	PH-14A2.8	PH-14A-2.8	26	30
13	PH-13A2.8	PH-13A-2.8	24	28
12	PH-12A2.8	PH-12A-2.8	22	26
11	PH-11A2.8	PH-11A-2.8	20	24
10	PH-10A2.8	PH-10A-2.8	18	22
9	PH-9A2.8	PH-9A-2.8	16	20
8	PH-8A2.8	PH-8A-2.8	14	18
7	PH-7A2.8	PH-7A-2.8	12	16
6	PH-6A2.8	PH-6A-2.8	10	14
5	PH-5A2.8	PH-5A-2.8	8	12
4	PH-4A2.8	PH-4A-2.8	6	10
3	PH-3A2.8	PH-3A-2.8	4	8
2	PH-2A2.8	PH-2A-2.8	/	6
Ckts(n)	Part No.	Previous part No.	A B	
			Dimensions	

Note:

- Material  
Wafer:  
Standards: PA66 UL94 V-0  
Others: PA66 V-2/PA66+GF V-2  
Post: Brass, tin plated
- Matched housing: PH-nY/PHB-nY
- Packaging: packing bag
- Compliant to the current RoHS

CUSTOMER DRAWING						Title: 2.0mm pitch WTB header	
Drawn	Naihao.Wang 2021.9.6	Unit	Scale	Size	Edition	Part No.: PH-nA2.8(**-*)	
Checked	GuoYing.Wang 2022.3.17	mm	5:1	A4	B1	Previous part No.: PH-nA-2.8	
Approved	Dongxu.Liu 2022.3.17	Sheet No.		1 Of 1	Document No.: CP-DWG-01529		
CWB 浙江合兴电子元件有限公司 CWB Electronics (Zhejiang) Co., Ltd.						Specification No.: PS4110	

General tolerance	Dimension	Tolerance	Rev. No	Location	Description	Reviser	Date
	0~3	±0.13			Version upgrade	Bao.Xiao Wu	2022.3.17
	3~18	±0.23					
	18~50	±0.35					
	≥50	±0.55					



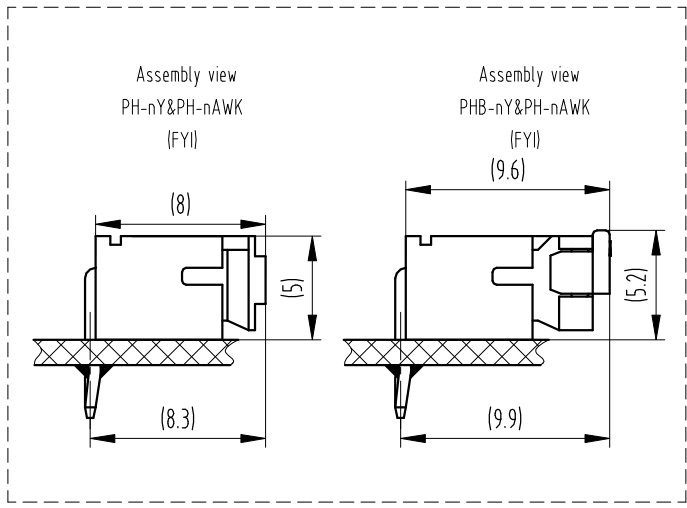
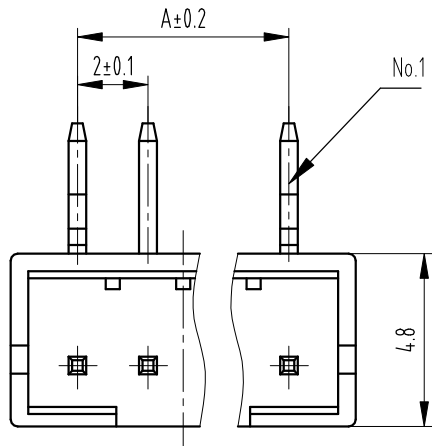
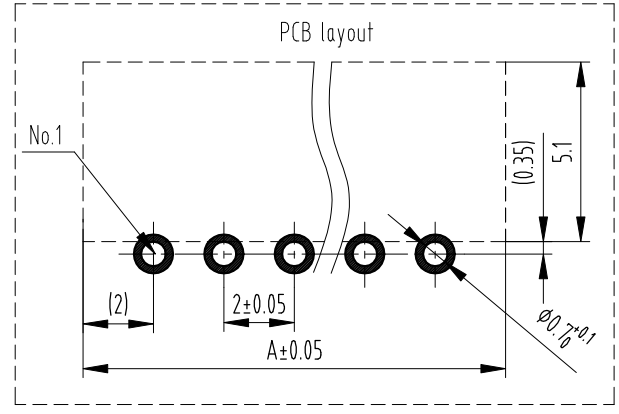
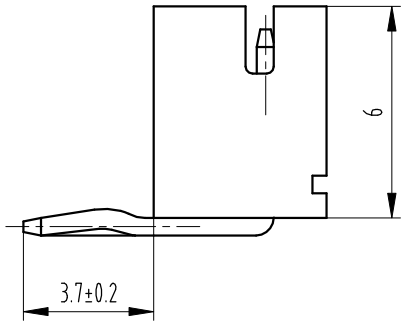
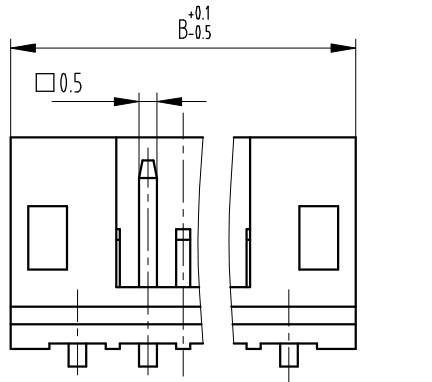
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15	PH-15AW	PH-15AW-1	28	32
14	PH-14AW	PH-14AW-1	26	30
13	PH-13AW	PH-13AW-1	24	28
12	PH-12AW	PH-12AW-1	22	26
11	PH-11AW	PH-11AW-1	20	24
10	PH-10AW	PH-10AW-1	18	22
9	PH-9AW	PH-9AW-1	16	20
8	PH-8AW	PH-8AW-1	14	18
7	PH-7AW	PH-7AW-1	12	16
6	PH-6AW	PH-6AW-1	10	14
5	PH-5AW	PH-5AW-1	8	12
4	PH-4AW	PH-4AW-1	6	10
3	PH-3AW	PH-3AW-1	4	8
2	PH-2AW	PH-2AW-1	/	6
Ckts(n)	Part No.	Previous part No.	A	B
			Dimensions	

Notes:

- Material:  
Wafer: PA66 V-2  
Post: Brass, tin plated
- Matched housing: PH-nY/PHB-nY
- Packaging: packing bag
- Compliant to the current RoHS

CUSTOMER DRAWING						Title: 2.0mm pitch WTB header	
Drawn	Naihao.Wang 2021.9.6	Unit	Scale	Size	Edition	Part No.: PH-nAW(**-*)	
Checked	GuoYing.Wang 2022.3.17	mm	5:1	A4	B1	Previous part No.: PH-nAW-1	
Approved	Dongxu.Liu 2022.3.17	Sheet No. 1 of 1		Document No.: CP-DWG-01191		Specification No.: PS4110	
<b>CWB</b> 浙江合兴电子元件有限公司 CWB Electronics (Zhejiang) Co., Ltd.							

General tolerance	Dimension	Tolerance	Rev. No	Location	Description	Reviser	Date
	0~3	±0.13					
	3~18	±0.23					
	18~50	±0.35					
	≥50	±0.55					



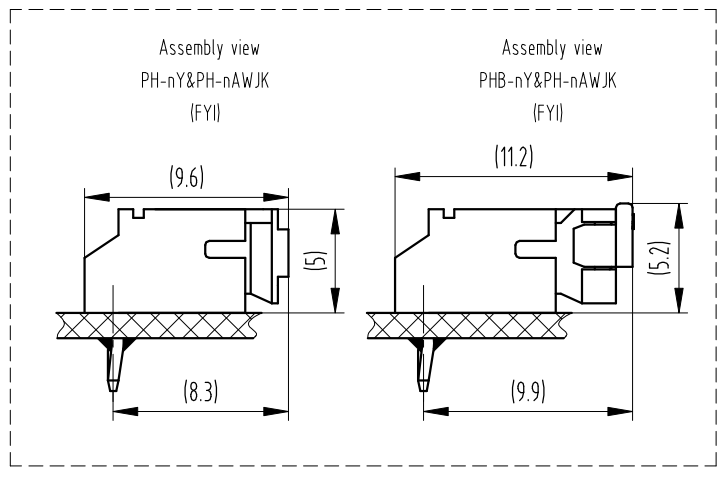
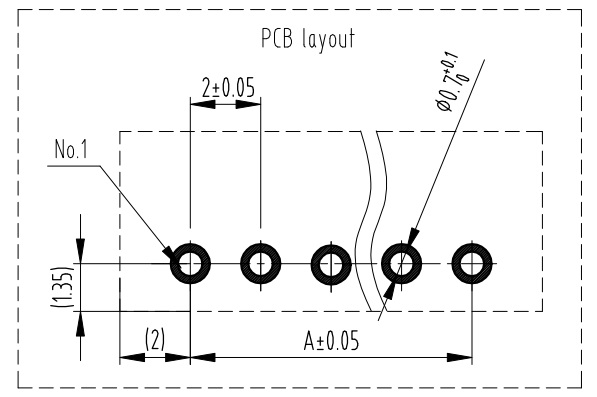
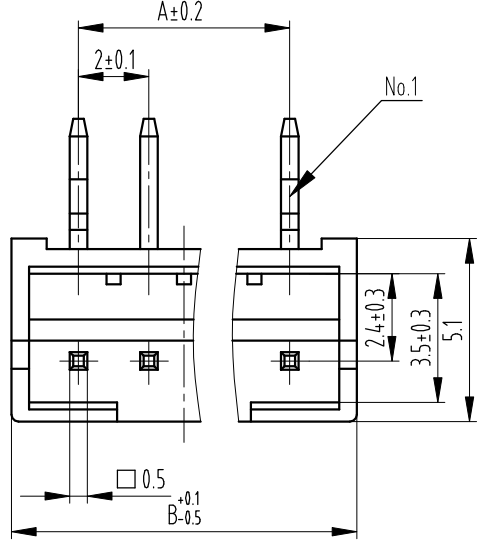
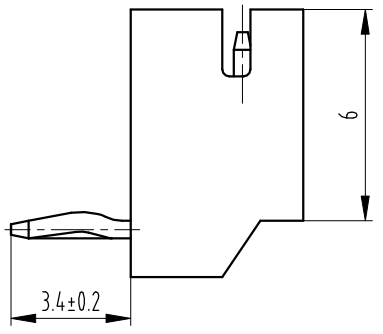
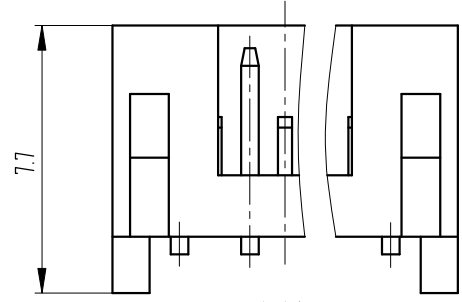
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15	PH-15AWK	PH-15AW	28	32
14	PH-14AWK	PH-14AW	26	30
13	PH-13AWK	PH-13AW	24	28
12	PH-12AWK	PH-12AW	22	26
11	PH-11AWK	PH-11AW	20	24
10	PH-10AWK	PH-10AW	18	22
9	PH-9AWK	PH-9AW	16	20
8	PH-8AWK	PH-8AW	14	18
7	PH-7AWK	PH-7AW	12	16
6	PH-6AWK	PH-6AW	10	14
5	PH-5AWK	PH-5AW	8	12
4	PH-4AWK	PH-4AW	6	10
3	PH-3AWK	PH-3AW	4	8
2	PH-2AWK	PH-2AW	/	6
Ckts	Part No.	Previous part No.	A	B
			Dimensions	

Note:

- Material Wafer: Standards: PA66 UL94 V-0  
Others: PA66 V-2/ PA66 UL94 V-0 GWT750℃
- Post: Brass, tin plated
- Matched housing: PH-nY/PHB-nY
- Packaging: packing bag
- Compliant to the current RoHS

CUSTOMER DRAWING						Title: 2.0mm pitch WTB header	
Drawn	Naihao.Wang	2021.9.6	Unit	Scale	Size	Edition	Part No.: PH-nAWK *(**-*)
Checked	Qu.Wang	2021.9.6	mm	5:1	A4	B0	Previous part No.: PH-nAW
Approved	Dongxu.Liu	2021.9.6	Sheet No.	1 Of 1			Document No.: CP-DWG-01181
CWB 浙江合兴电子元件有限公司						Specification No.: PS4110	
CWB Electronics (Zhejiang) Co., Ltd.							

General tolerance	Dimension	Tolerance	Rev. No	Location	Description	Reviser	Date
	0~3	±0.13					
	3~18	±0.23					
	18~50	±0.35					
	≥50	±0.55					



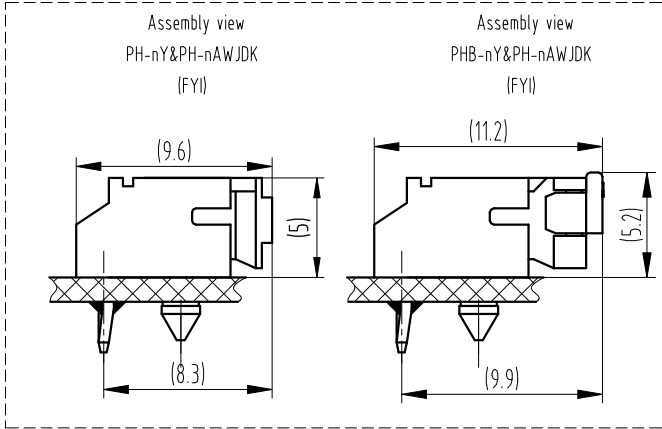
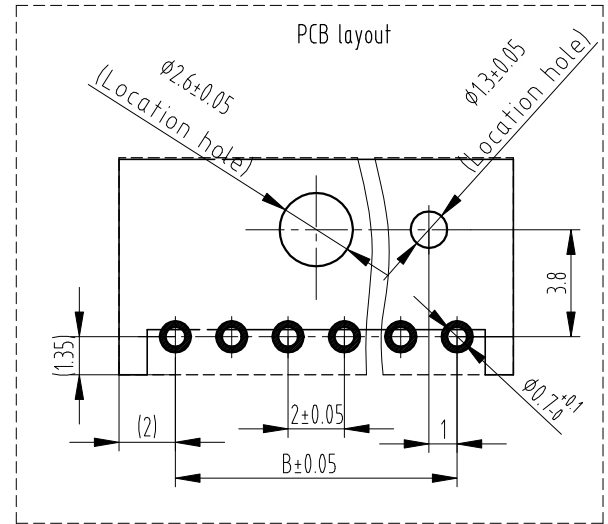
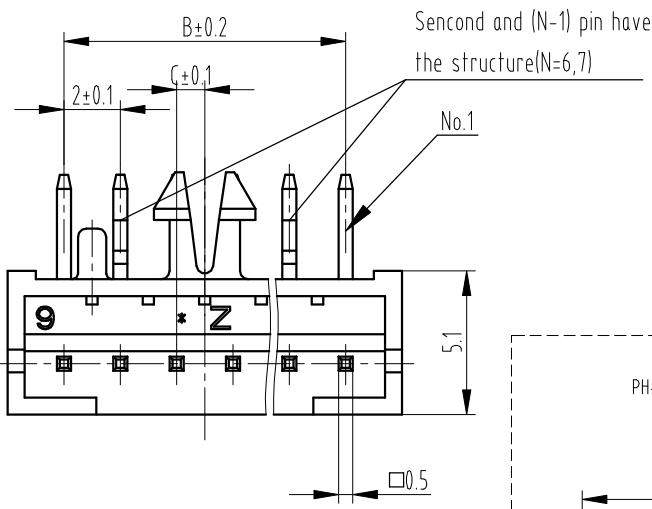
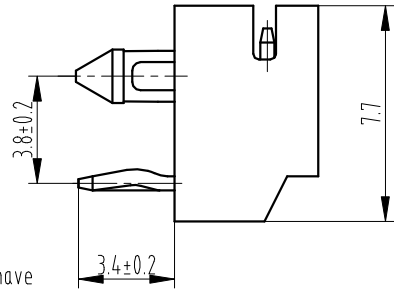
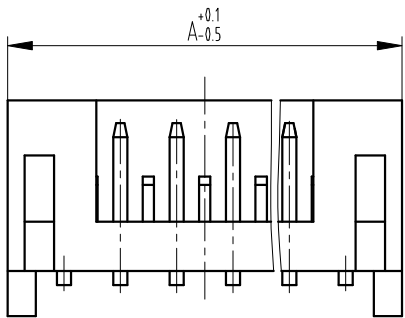
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15	PH-15AWJK	PH-15AWJ	28	32
14	PH-14AWJK	PH-14AWJ	26	30
13	PH-13AWJK	PH-13AWJ	24	28
12	PH-12AWJK	PH-12AWJ	22	26
11	PH-11AWJK	PH-11AWJ	20	24
10	PH-10AWJK	PH-10AWJ	18	22
9	PH-9AWJK	PH-9AWJ	16	20
8	PH-8AWJK	PH-8AWJ	14	18
7	PH-7AWJK	PH-7AWJ	12	16
6	PH-6AWJK	PH-6AWJ	10	14
5	PH-5AWJK	PH-5AWJ	8	12
4	PH-4AWJK	PH-4AWJ	6	10
3	PH-3AWJK	PH-3AWJ	4	8
2	PH-2AWJK	PH-2AWJ	/	6
Ckts	Part No.	Previous part No.	A	B
			Dimensions	

Note:

- Material Wafer: Standards: PA66 UL94 V-0  
Others: PA66 V-2/PA66 +GF V-2/  
PA66 UL94 V-0 GWT750°C
- Post: Brass, tin plated
- Matched housing: PH-nY/PHB-nY
- Packaging: packing bag
- Compliant to the current RoHS

CUSTOMER DRAWING						Title: 2.0mm pitch WTB header	
Drawn	Naihao.Wang 2021.9.6	Unit	Scale	Size	Edition	Part No.: PH-nAWJK *(**-*)	
Checked	Qu.Wang 2021.9.6	mm	5:1	A4	B0	Previous part No.: PH-nAWJ	
Approved	Dongxu.Liu 2021.9.6	Sheet No.	1 of 1		Document No.: CP-DWG-01183		Specification No.: PS4110
		<b>CWB</b> 浙江合兴电子元件有限公司 CWB Electronics (Zhejiang) Co., Ltd.					

General tolerance	Dimension	Tolerance	Rev. No	Location	Description	Reviser	Date
	0~3	±0.13			Version upgrade	Bao.Xiao Wu	2022.3.17
	3~18	±0.23					
	18~50	±0.35					
≥50	±0.55						



Note:

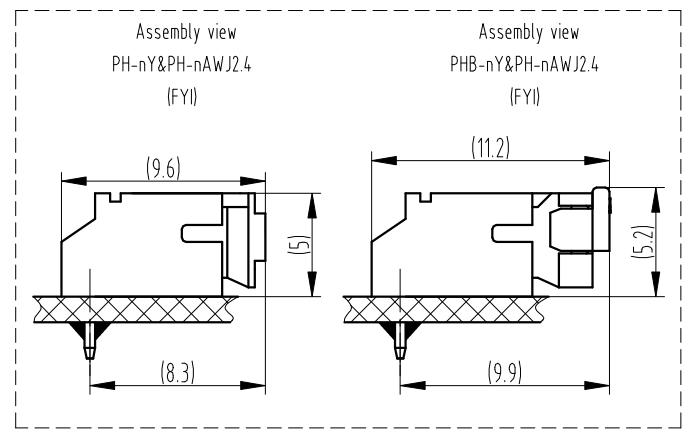
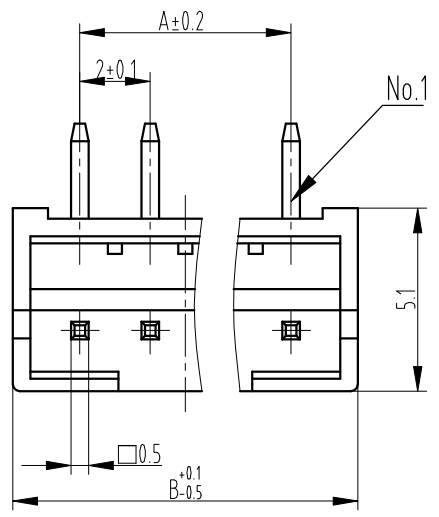
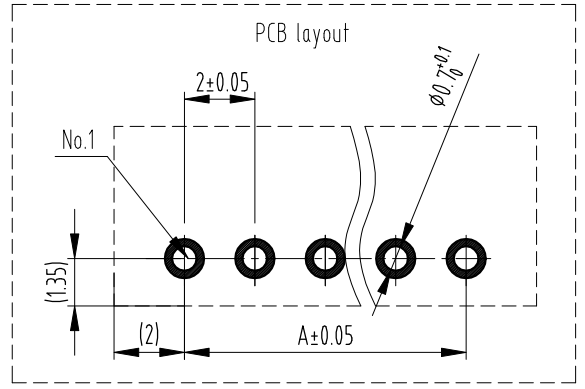
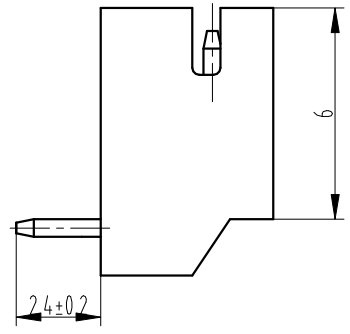
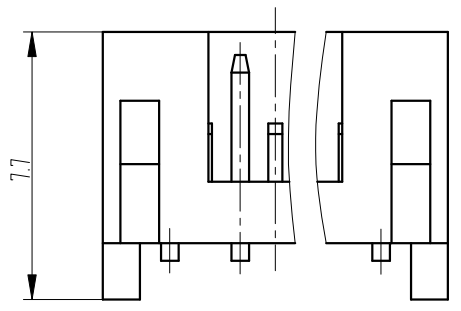
- Material Wafer: Standards: PA66 UL94 V-0 Others: PA66 V-2
- Post: Brass, tin plated
- Matched housing: PH-nY/PHB-nY
- Packaging: packing bag
- Compliant to the current RoHS

7	PH-7AWJDK	PH-7AWJD	16	12	2
6	PH-6AWJDK	PH-6AWJD	14	10	1
Ckts(n)	Part No.	Previous part No.	Dimensions		
			A	B	C

CUSTOMER DRAWING						Title: 2.0mm pitch WTB header			
Drawn	Naihao.Wang	2021.9.6	Unit	Scale	Size	Edition	Part No.: PH-nAWJDK(**-*)		
Checked	GuoYing.Wang	2022.3.17	mm	4:1	A4	B1	Previous part No.: PH-nAWJD		
			Sheet No.		1 Of 1		Document No.: CP-DWG-01184		
Approved	Dongxu.Liu	2022.3.17	CWB 浙江合兴电子元件有限公司			Specification No.: PS4110			
CWB Electronics (Zhejiang) Co., Ltd.									



General tolerance	Dimension	Tolerance	Rev. No	Location	Description	Reviser	Date
	0~3	±0.13			Version upgrade	Bao.Xiao.Wu	2022.3.17
	3~18	±0.23					
	18~50	±0.35					
≥50	±0.55						



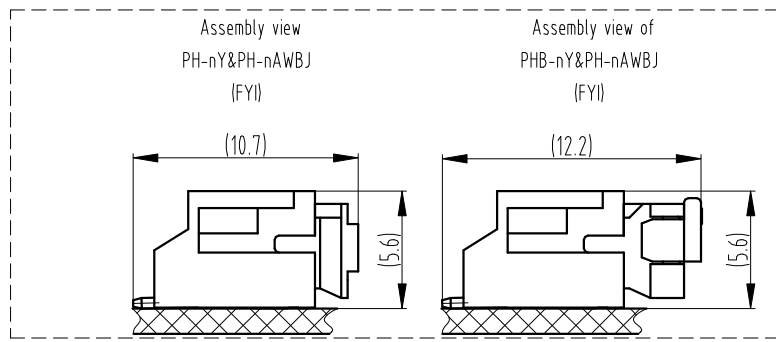
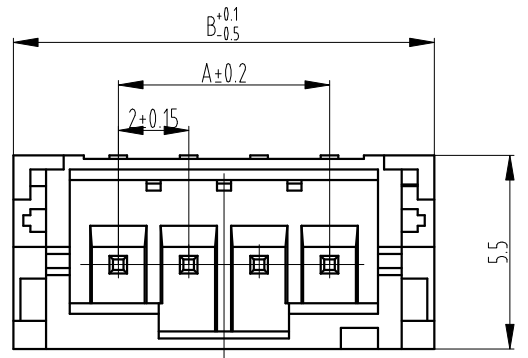
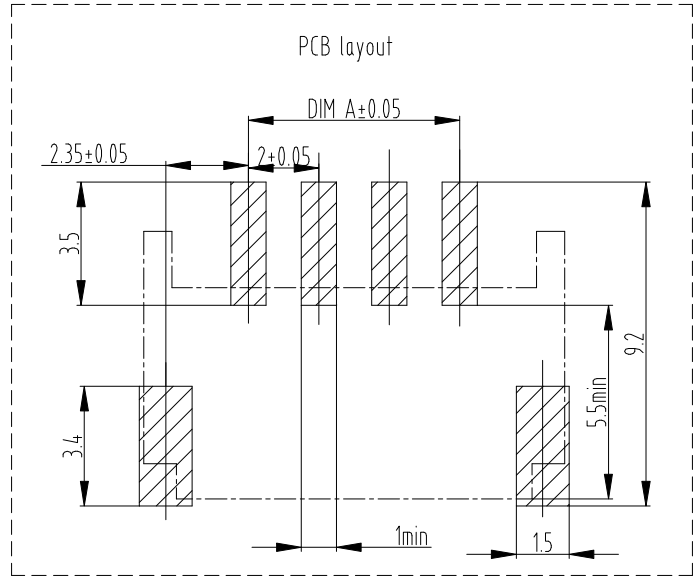
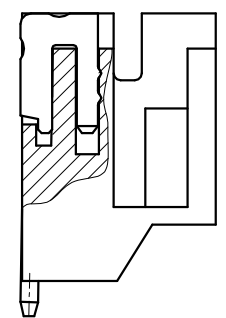
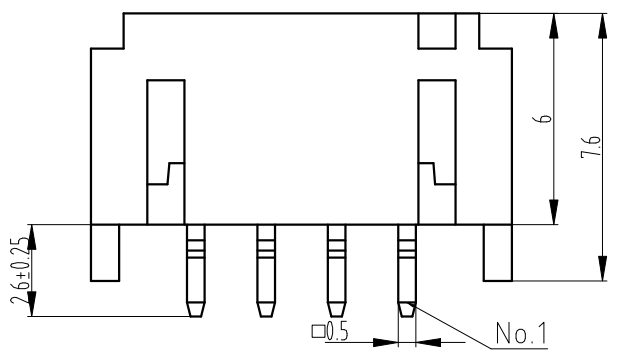
12	PH-12AWJ2.4	PH-12AWJ-2.4	22	26
9	PH-9AWJ2.4	PH-9AWJ-2.4	16	20
6	PH-6AWJ2.4	PH-6AWJ-2.4	10	14
5	PH-5AWJ2.4	PH-5AWJ-2.4	8	12
4	PH-4AWJ2.4	PH-4AWJ-2.4	6	10
3	PH-3AWJ2.4	PH-3AWJ-2.4	4	8
2	PH-2AWJ2.4	PH-2AWJ-2.4	/	6
Ckts(n)	Part No.	Previous part No.	A	B
			Dimensions	

Note:

- Material  
Wafer:  
Standards: PA66 UL94 V-0  
Others: PA66 V-2  
Post: Brass, tin plated
- Matched housing: PH-nY/PHB-nY
- Packaging: packing bag
- Compliant to the current RoHS

CUSTOMER DRAWING						Title: 2.0mm pitch WTB header	
Drawn	Naihao.Wang	2021.9.6	Unit	Scale	Size	Edition	Part No.: PH-nAWJ2.4(**-*)
Checked	GuoYing.Wang	2022.3.17	mm	5:1	A4	B1	Previous part No.: PH-nAWJ-2.4
Approved	Dongxu.Liu	2022.3.17	Sheet No.	1 Of 1			Document No.: CP-DWG-01192
			<b>CWB</b> 浙江合兴电子元件有限公司 CWB Electronics (Zhejiang) Co., Ltd.				Specification No.: PS4110

General Tolerance	Dimension	Tolerance	Rev. No	Location	Description	Reviser	Date
	0~3		±0.13			Version upgrade	Bao.Xiao Wu
3~18		±0.23					
18~50		±0.35					
≥50		±0.55					



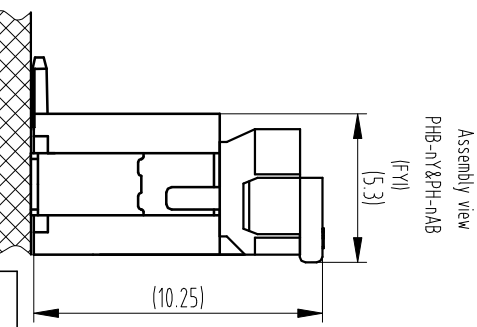
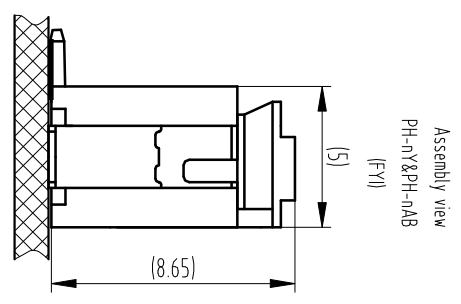
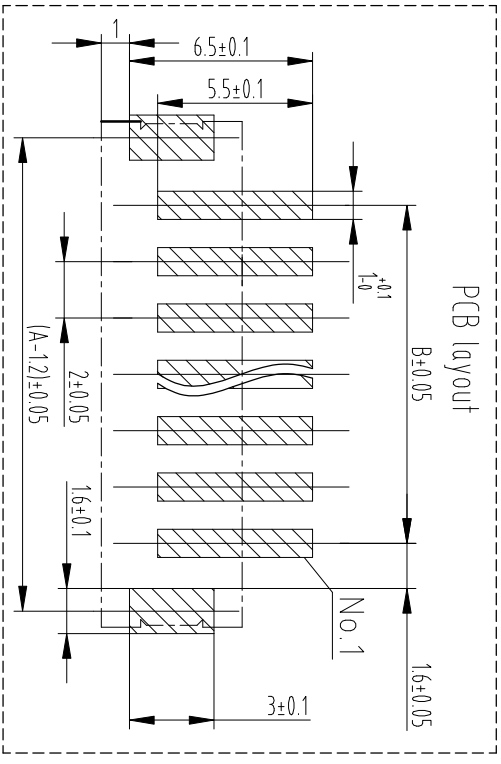
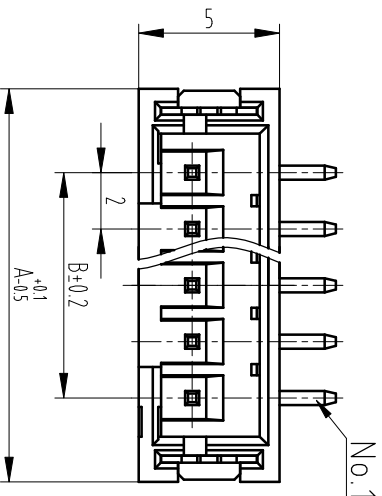
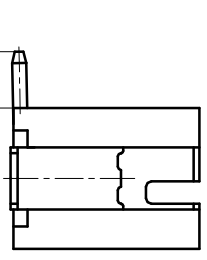
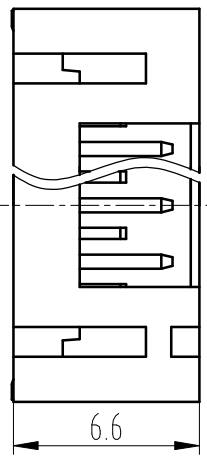
16	PH-16AWBJ	PHC-16A	30	35.95
15	PH-15AWBJ	PHC-15A	28	33.95
14	PH-14AWBJ	PHC-14A	26	31.95
13	PH-13AWBJ	PHC-13A	24	29.95
12	PH-12AWBJ	PHC-12A	22	27.95
11	PH-11AWBJ	PHC-11A	20	25.95
10	PH-10AWBJ	PHC-10A	18	23.95
9	PH-9AWBJ	PHC-9A	16	21.95
8	PH-8AWBJ	PHC-8A	14	19.95
7	PH-7AWBJ	PHC-7A	12	17.95
6	PH-6AWBJ	PHC-6A	10	15.95
5	PH-5AWBJ	PHC-5A	8	13.95
4	PH-4AWBJ	PHC-4A	6	11.95
3	PH-3AWBJ	PHC-3A	4	9.95
2	PH-2AWBJ	PHC-2A	2	7.95
Ckts(n)	Part No.	Previous part No.	Dimensions	
			A	B

Note:

- Material  
Wafer: PA9T+GF UL94V-0/  
PA10T+GF UL94V-0/  
LCP UL94 V-0  
Post: Brass, tin plated
- Matched housing: PH-nY/PHB-nY
- Packaging: packing bag
- Compliant to the current RoHS

CUSTOMER DRAWING						Title: 2.0mm pitch WTB header	
Drawn	Naihao.Wang 2021.9.6	Unit	Scale	Size	Edition	Part No.: PH-nAWBJ(**-*)	
Checked	GuoYin.Wang 2022.8.1	mm	5:1	A4	B1	Previous part No.: PHC-nA	
Approved	Dongxu.Liu 2022.8.1	Sheet No.		1 Of 1	Document No.: CP-DWG-01185		
<b>CWB</b> 浙江合兴电子元件有限公司 CWB Electronics (Zhejiang) Co., Ltd.						Specification No.: PS4110	

General tolerance				Revision		Description		Reviser		Date	
Dimension	Tolerance	Rev. No	Location								
0~3	±0.13			Version upgrade		Baoyao Wu		2022.3.17			
3~18	±0.23			Version upgrade		Ji.Wu		2022.12.16			
18~50	±0.35										
≥50	±0.55										



Part No.	Previous part No.	Dimensions
16 PH-16AB	PHB-16A	36 30
15 PH-15AB	PHB-15A	34 28
14 PH-14AB	PHB-14A	32 26
13 PH-13AB	PHB-13A	30 24
12 PH-12AB	PHB-12A	28 22
11 PH-11AB	PHB-11A	26 20
10 PH-10AB	PHB-10A	24 18
9 PH-9AB	PHB-9A	22 16
8 PH-8AB	PHB-8A	20 14
7 PH-7AB	PHB-7A	18 12
6 PH-6AB	PHB-6A	16 10
5 PH-5AB	PHB-5A	14 8
4 PH-4AB	PHB-4A	12 6
3 PH-3AB	PHB-3A	10 4
2 PH-2AB	PHB-2A	8 2

Notes:  
 1.Material:  
 Water-PA9T+GF UL94 V-0/  
 PA10T+GF UL94 V-0  
 Post: Brass, tin plated  
 Solder tabs: Brass, tin plated

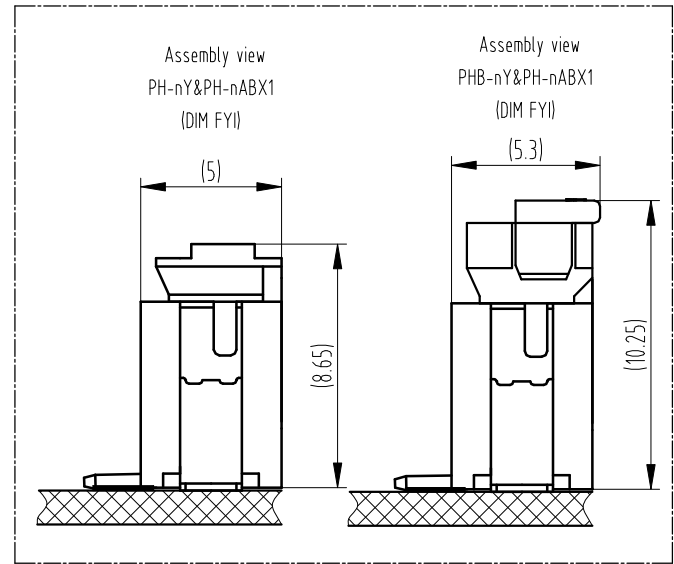
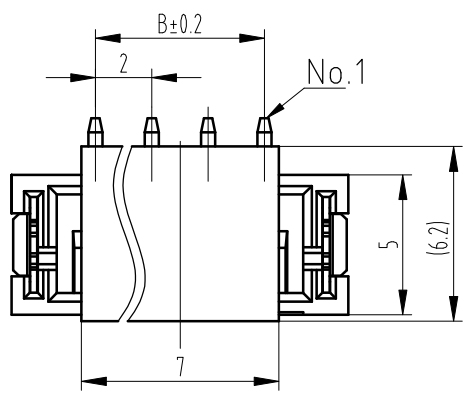
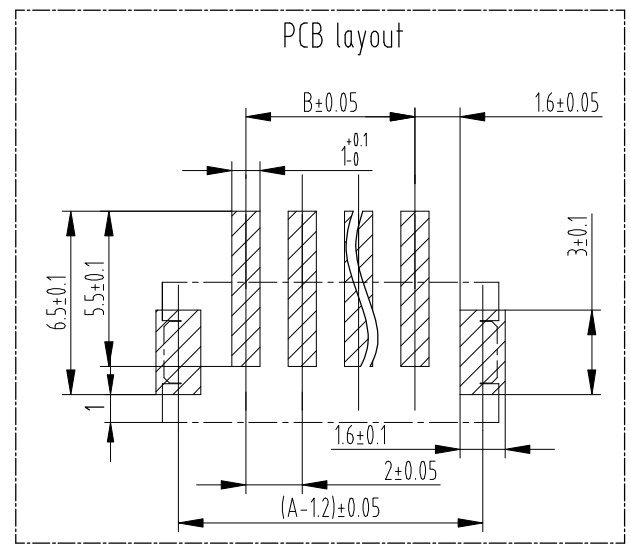
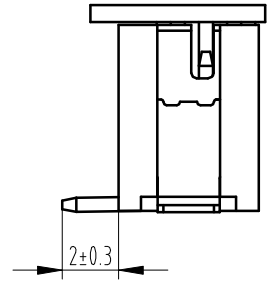
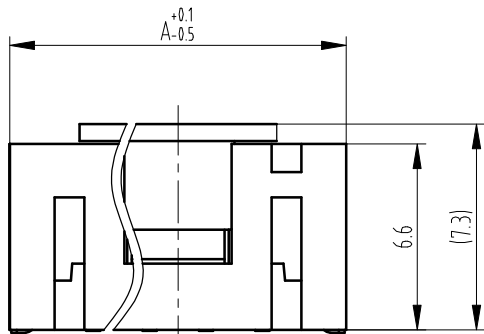
2.Matched housing: PH-nY/PHB-nY  
 3.Packaging:Packing tube  
 4.Compliant to the current RoHS

CUSTOMER DRAWING

Title: 2.0mm pitch WTB header

Drawn	Unit	Scale	Size	Edition	Part No.:
Mathao Wang 2021.9.6	mm	4:1	A4	/	PH-nAB*(***)
Checked	GuoYing Wang 2022.12.16		Sheet No.:	1 of 1	Previous part No.: PHB-nA
Approved	Dongxuliu 2022.12.16		CWB 浙江合兴电子有限公司		Document No.: CP-DWG-01186
					Specification No.: PS4.110

General Tolerance	Dimension	Tolerance	Rev. No	Location	Description	Reviser	Date
	0~3		±0.13			Version upgrade	Bao.Xiao Wu
3~18		±0.23					
18~50		±0.35					
≥50		±0.55					

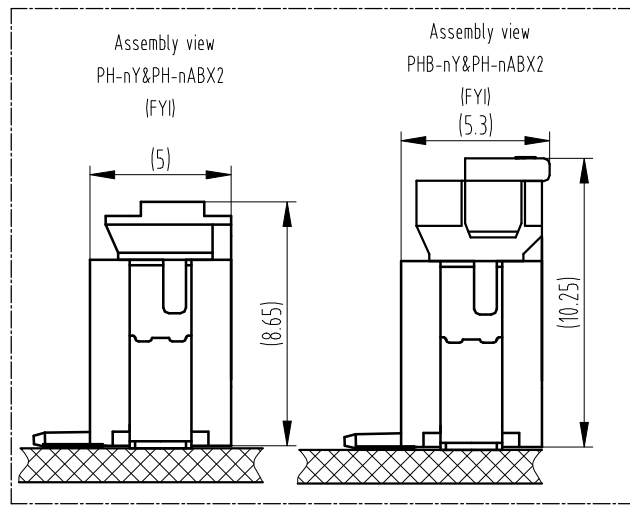
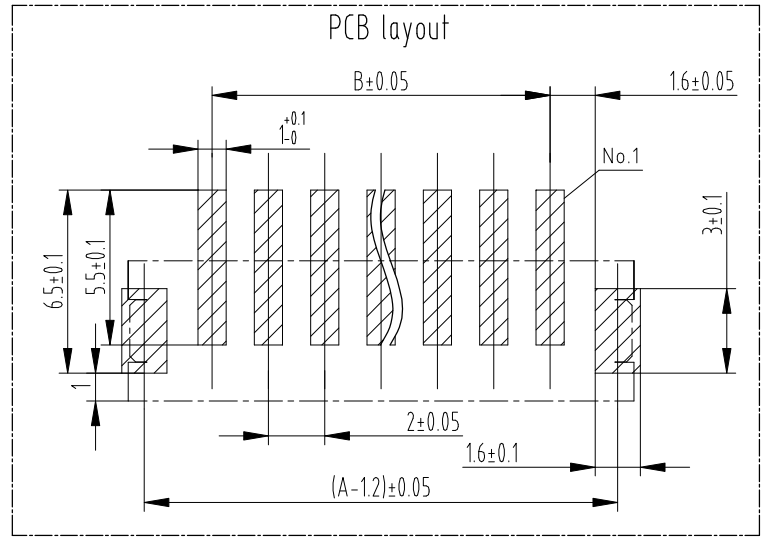
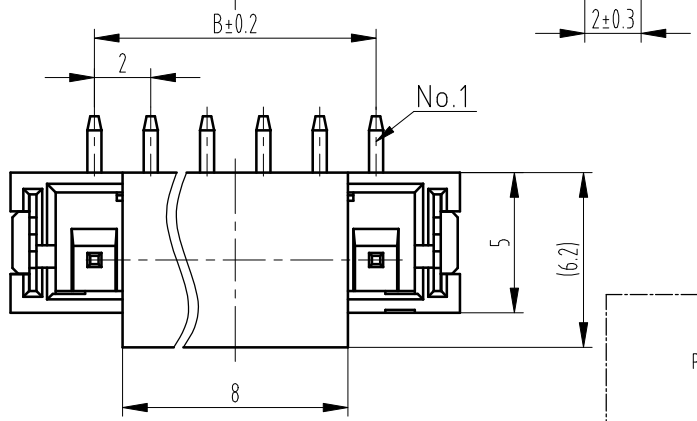
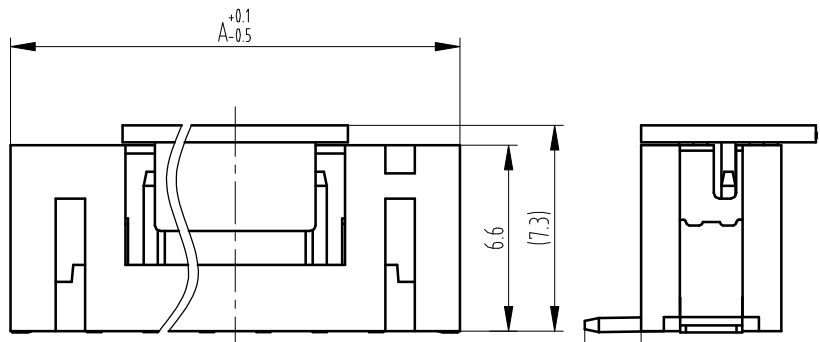


- Notes:
- Material:
    - Wafer: PA9T+GF UL94 V-0/  
PA10T+GF UL94 V-0
    - Post: Brass,tin plated
    - Solder tabs: Brass,tin plated
    - Suction caps: PA66+GF
  - Matched housing: PH-nY/PHB-nY
  - Packaging: Carrier tape
  - Compliant to the current RoHS

4	PH-4ABX1	PH-4AB-1	12	6
3	PH-3ABX1	PH-3AB-1	10	4
2	PH-2ABX1	PH-2AB-1	8	2
Ckts(n)	Part No.	Previous part No.	A	B
			Dimensions	

CUSTOMER DRAWING						Title: 2.0mm pitch WTB header	
Drawn	Naihao.Wang 2021.9.6	Unit	Scale	Size	Edition	Part No:PH-nABX1(**-*)	
Checked	GuoYing.Wang 2022.3.17	mm	4:1	A4	B0	Previous part No.:PH-(2~4)AB-1	
Approved	Dongxu.Liu 2022.3.17	Sheet No.	1 of 1		Document No.:		CP-DWG-01187
CWB 浙江合兴电子元件有限公司 CWB Electronics (Zhejiang) Co., Ltd.						Specification No.:	
						PS4110	

General tolerance	Dimension	Tolerance	Rev. No	Location	Description	Reviser	Date
	0~3		±0.13			Version upgrade	Bao.Xiao Wu
3~18		±0.23					
18~50		±0.35					
≥50		±0.55					



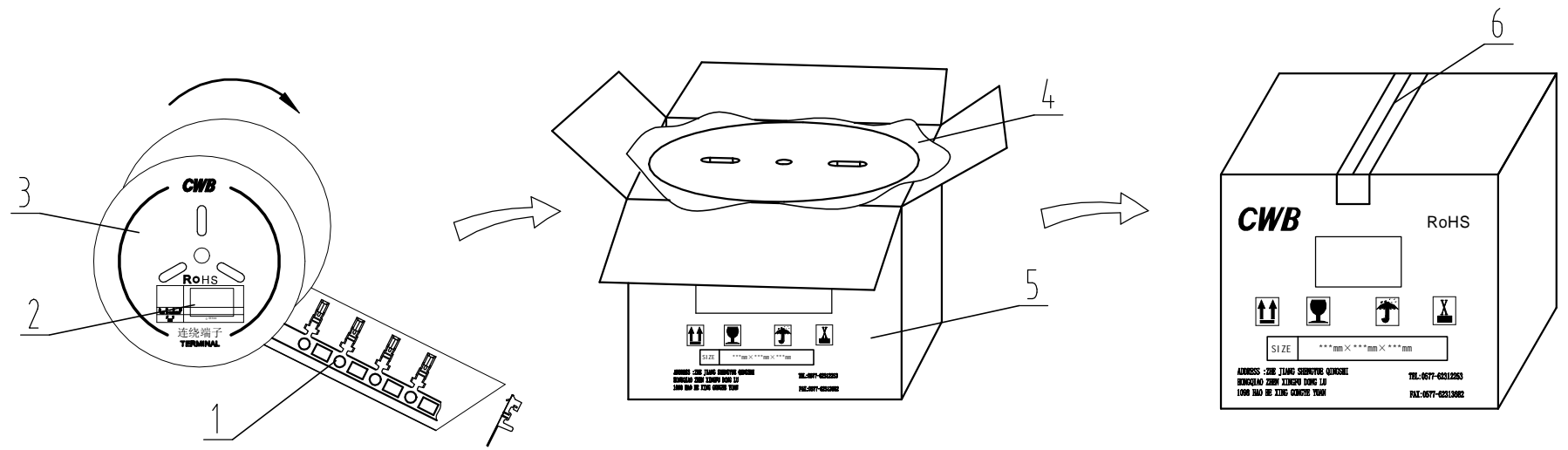
Notes:

- Material:  
Wafer: PA9T+GF UL94 V-0/  
PA10T+GF UL94 V-0  
Post: Brass, tin plated  
Solder tabs: Brass, tin plated
- Matched housing: PH-nY/PHB-nY
- Packaging: Carrier tape
- Compliant to the current RoHS

16	PH-16ABX2	PH-16AB-1	36	30
15	PH-15ABX2	PH-15AB-1	34	28
14	PH-14ABX2	PH-14AB-1	32	26
13	PH-13ABX2	PH-13AB-1	30	24
12	PH-12ABX2	PH-12AB-1	28	22
11	PH-11ABX2	PH-11AB-1	26	20
10	PH-10ABX2	PH-10AB-1	24	18
9	PH-9ABX2	PH-9AB-1	22	16
8	PH-8ABX2	PH-8AB-1	20	14
7	PH-7ABX2	PH-7AB-1	18	12
6	PH-6ABX2	PH-6AB-1	16	10
5	PH-5ABX2	PH-5AB-1	14	8
Ckts(n)	Part No.	Previous part No.	A	B
			Dimensions	

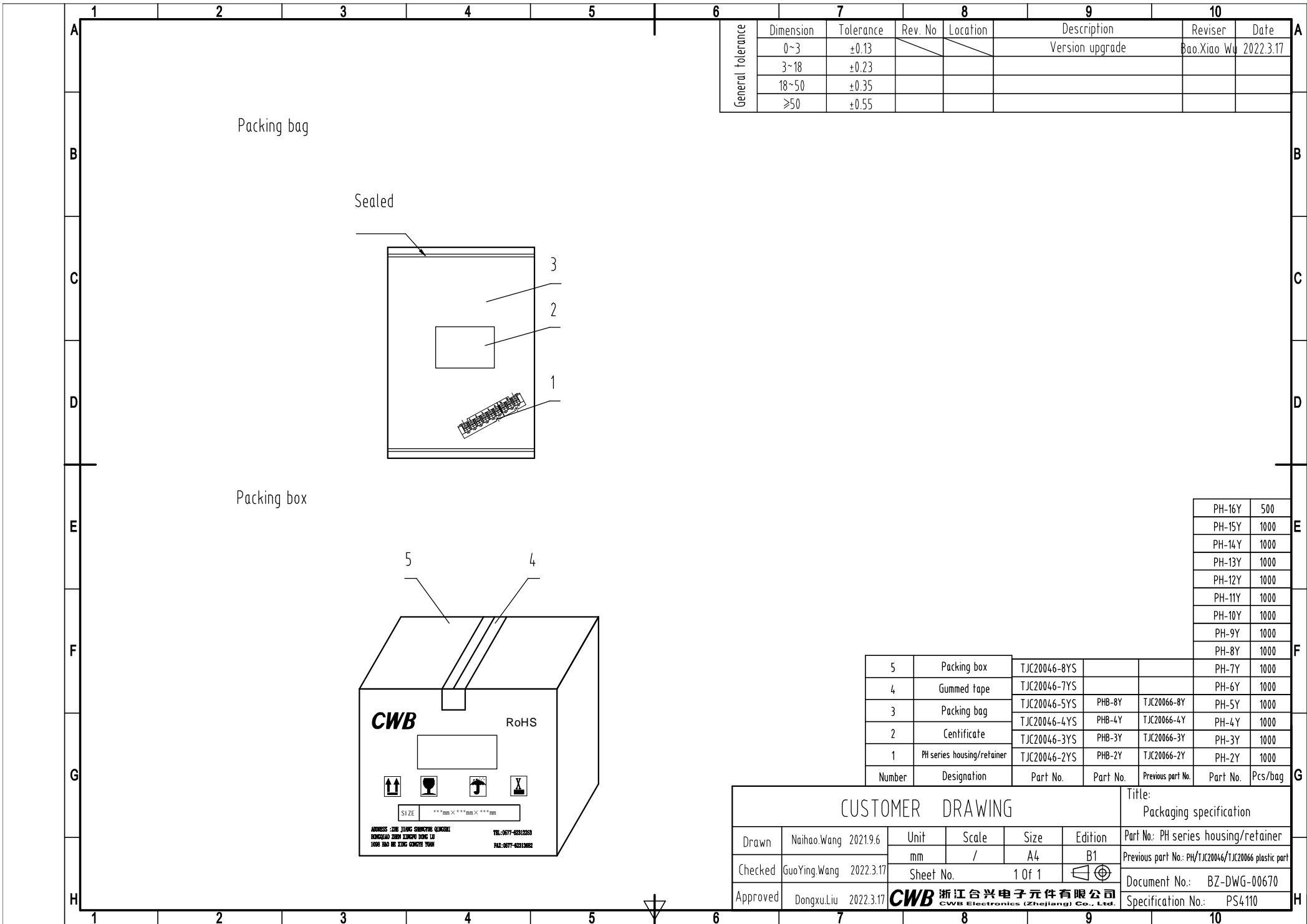
CUSTOMER DRAWING						Title: 2.0mm pitch WTB header	
Drawn	Naihao.Wang 2021.9.6	Unit	Scale	Size	Edition	Part No.: PH-nABX2(**-*)	
Checked	GuoYing.Wang 2022.3.17	mm	4:1	A4	B1	Previous part No.:PH-(5~16)AB-1	
Approved	Dongxu.Liu 2022.3.17	Sheet No.	1 Of 1		Document No.: CP-DWG-01188		Specification No.: PS4110
<b>CWB</b> 浙江合兴电子元件有限公司 CWB Electronics (Zhejiang) Co., Ltd.							

General Tolerance	Dimension	Tolerance	Rev. No	Location	Description	Reviser	Date
	0~3	±0.13	/	/	Version upgrade	BaoXiao Wu	2022.3.17
	3~18	±0.23					
	18~50	±0.35					
	≥50	±0.55					



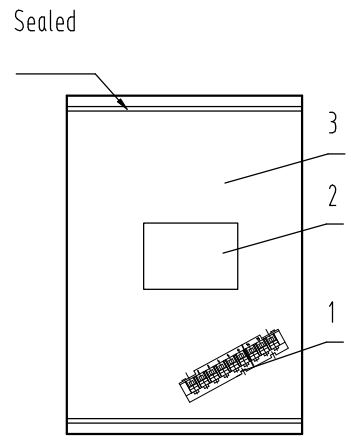
6	Gummed tape	
5	Packing box	
4	Packing bag	
3	Reel	
2	Certificate	
1	PH-2/CH-PH-2	8Kpcs/reel
	PH-1/CH-PH-1	8Kpcs/reel
	PH/CH-PH	8Kpcs/reel
Number	Designation	Remarks

CUSTOMER DRAWING						Title: Packaging specification	
Drawn	Qu.Wang	2021.8.25	Unit	Scale	Size	Edition	Part No.: CH-PH-*/CH-PH-1-*/CH-PH-2-*
Checked	GuoYing.Wang	2022.3.17	mm	/	A4	B1	Previous part No.: PH/PH-1/PH-2
Approved	Dongxu.Liu	2022.3.17	Sheet No. 1 Of 1				Document No.: BZ-DWG-00669
<b>CWB</b> 浙江合兴电子元件有限公司 CWB Electronics (Zhejiang) Co., Ltd.						Specification No.: PS4110	

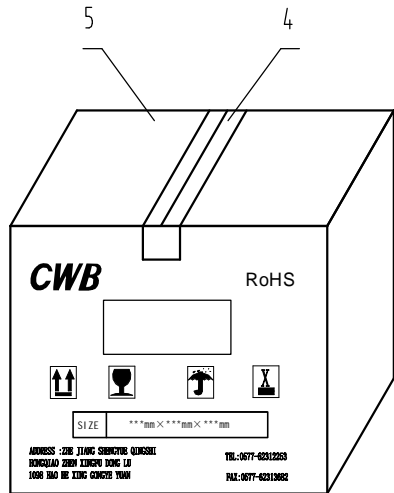


General Tolerance	Dimension	Tolerance	Rev. No	Location	Description	Reviser	Date
	0~3	±0.13			Version upgrade	Bao.Xiao Wu	2022.3.17
	3~18	±0.23					
	18~50	±0.35					
	≥50	±0.55					

Packing bag



Packing box



PH-16Y	500
PH-15Y	1000
PH-14Y	1000
PH-13Y	1000
PH-12Y	1000
PH-11Y	1000
PH-10Y	1000
PH-9Y	1000
PH-8Y	1000
PH-7Y	1000
PH-6Y	1000
PH-5Y	1000
PH-4Y	1000
PH-3Y	1000
PH-2Y	1000

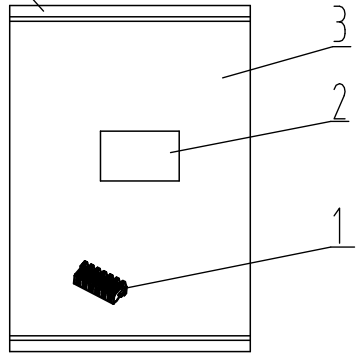
5	Packing box	TJC20046-8YS			PH-7Y	1000
4	Gummed tape	TJC20046-7YS			PH-6Y	1000
3	Packing bag	TJC20046-5YS	PHB-8Y	TJC20066-8Y	PH-5Y	1000
2	Certificate	TJC20046-4YS	PHB-4Y	TJC20066-4Y	PH-4Y	1000
1	PH series housing/retainer	TJC20046-3YS	PHB-3Y	TJC20066-3Y	PH-3Y	1000
		TJC20046-2YS	PHB-2Y	TJC20066-2Y	PH-2Y	1000
Number	Designation	Part No.	Part No.	Previous part No.	Part No.	Pcs/bag

CUSTOMER DRAWING						Title: Packaging specification	
Drawn	Naihao.Wang	2021.9.6	Unit	Scale	Size	Edition	Part No: PH series housing/retainer
Checked	GuoYing.Wang	2022.3.17	mm	/	A4	B1	Previous part No: PH/TJC20046/TJC20066 plastic part
Approved	Dongxu.Liu	2022.3.17	Sheet No.	1 Of 1			Document No.: BZ-DWG-00670
<b>CWB</b> 浙江合兴电子元件有限公司 CWB Electronics (Zhejiang) Co., Ltd.						Specification No.: PS4110	

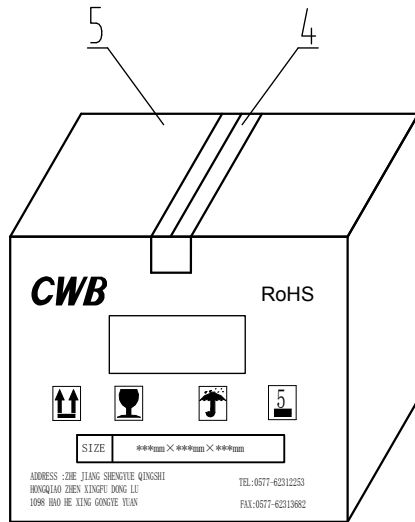
General tolerance	Dimension	Tolerance	Rev. No	Location	Description	Reviser	Date
	0~3	±0.13					
	3~18	±0.23					
	18~50	±0.35					
	≥50	±0.55					

Packing bag

Sealed



Packing box

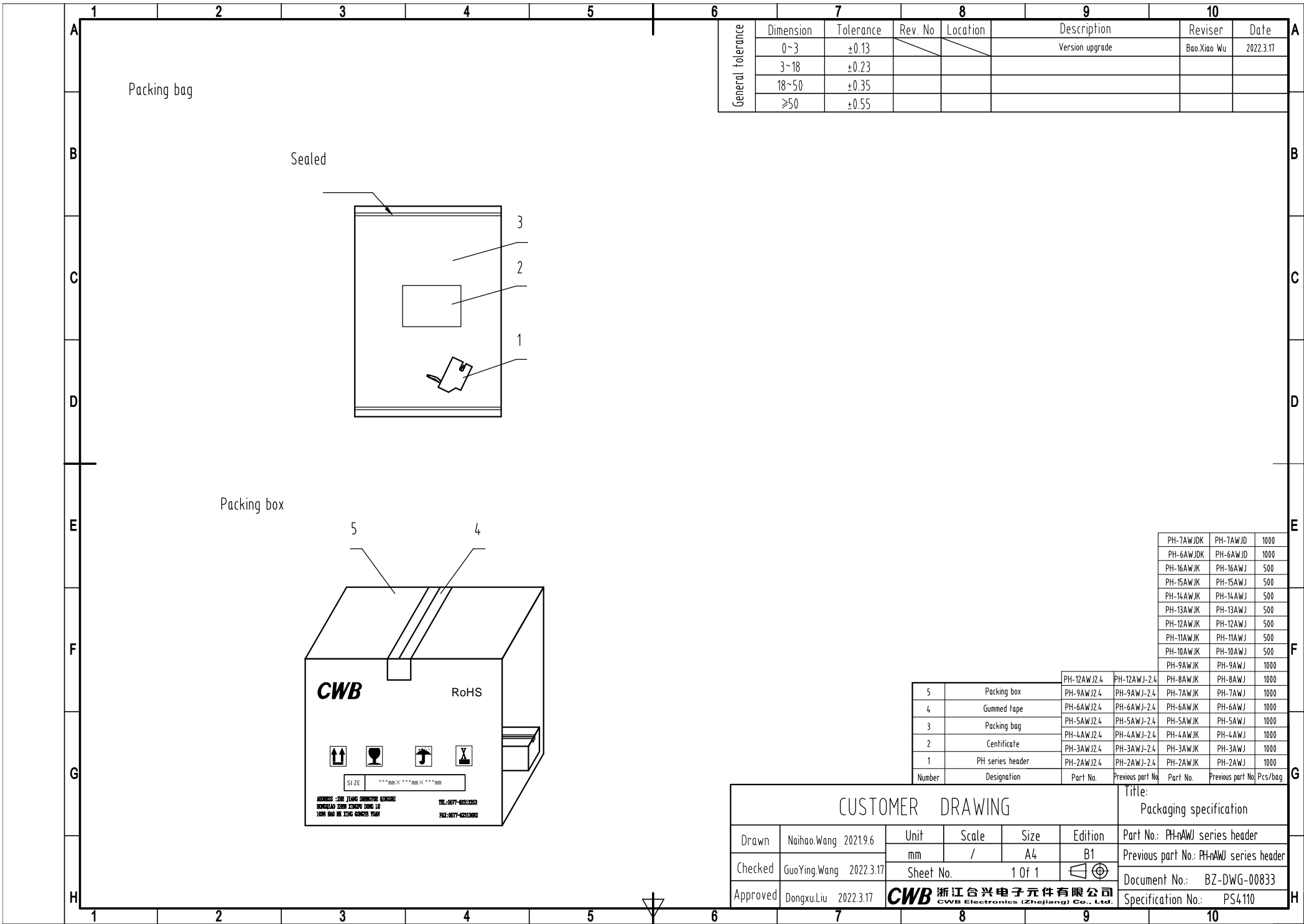


PH-16YI	1000	
PH-15YI	1000	
PH-14YI	1000	
PH-13YI	1000	
PH-12YI	1000	
PH-11YI	1000	
PH-10YI	1000	
PH-9YI	1000	
PH-8YI	1000	
PH-7YI	1000	
PH-6YI	1000	
PH-5YI	1000	
PH-4YI	1000	
PH-3YI	1000	
PH-2YI	1000	

Number	Designation	Part No.	Pcs/bag	Remarks
5	Packing box	PH-7YI	1000	
4	Gummed tape	PH-6YI	1000	
3	Packing bag	PH-5YI	1000	
2	Certificate	PH-4YI	1000	
1	PH-nYI	PH-3YI	1000	
		PH-2YI	1000	

CUSTOMER DRAWING						Title: Packaging specification	
Drawn	Pei Yang 2022.05.24	Unit	Scale	Size	Edition	Part No.: PH-nYI(**-*)	
Checked	Guoying Wang 2022.05.24	mm	/	A4	B1	Previous part No.: /	
Approved	Dongxu Liu 2022.05.25	Sheet No. 1 Of 1				Document No.: BZ-DWG-00857	
<b>CWB</b> 浙江合兴电子元件有限公司 CWB Electronics (Zhejiang) Co., Ltd.						Specification No.: PS4110	



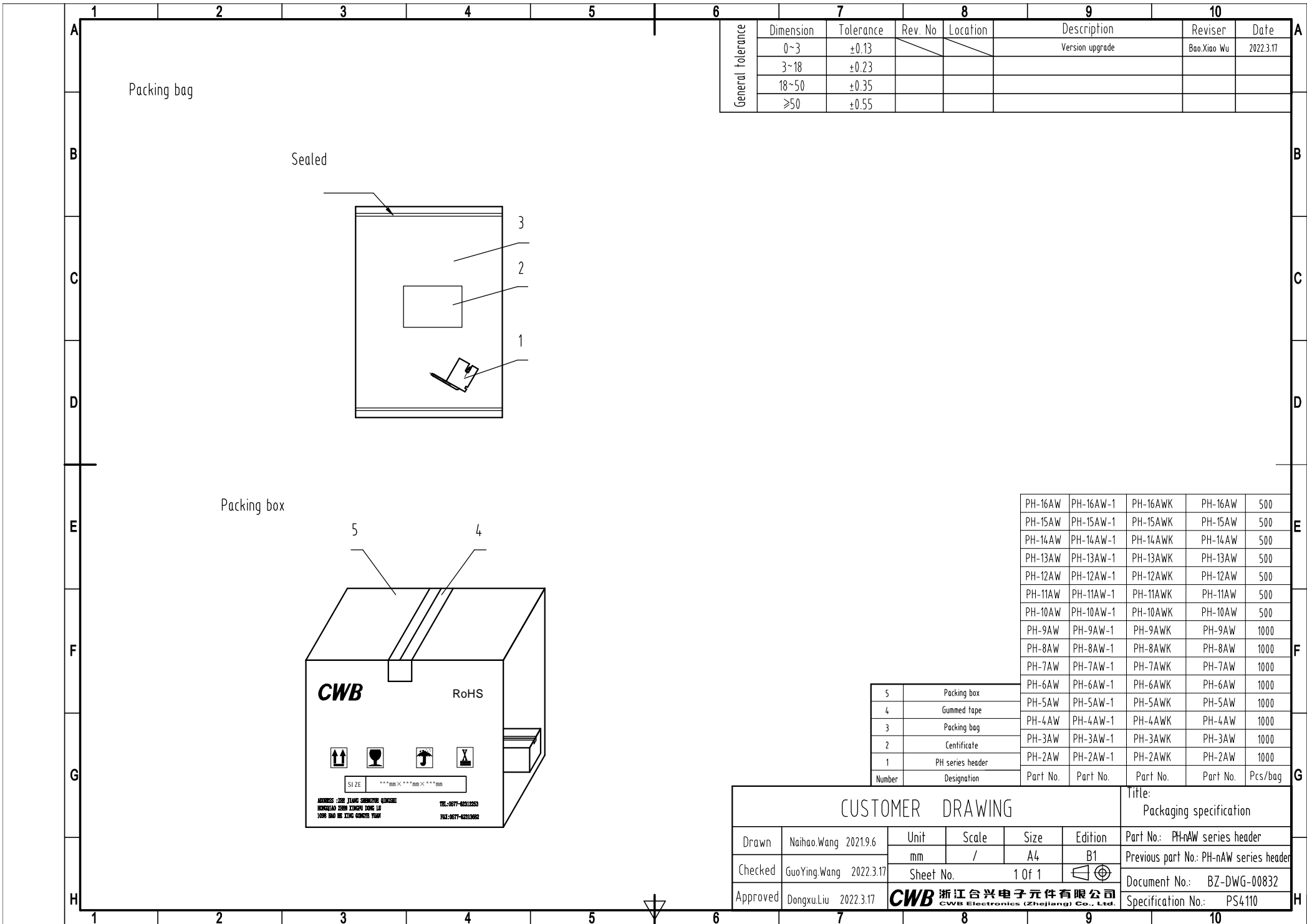


General Tolerance	Dimension	Tolerance	Rev. No	Location	Description	Reviser	Date
	0~3	±0.13			Version upgrade	Bao Xiao Wu	2022.3.17
	3~18	±0.23					
	18~50	±0.35					
	≥50	±0.55					

PH-7AWJK	PH-7AWJD	1000
PH-6AWJK	PH-6AWJD	1000
PH-16AWJK	PH-16AWJ	500
PH-15AWJK	PH-15AWJ	500
PH-14AWJK	PH-14AWJ	500
PH-13AWJK	PH-13AWJ	500
PH-12AWJK	PH-12AWJ	500
PH-11AWJK	PH-11AWJ	500
PH-10AWJK	PH-10AWJ	500
PH-9AWJK	PH-9AWJ	1000

Number	Designation	Part No.	Previous part No	Part No.	Previous part No	Pcs/bag
5	Packing box	PH-12AWJ2.4	PH-12AWJ-2.4	PH-8AWJK	PH-8AWJ	1000
4	Gummed tape	PH-9AWJ2.4	PH-9AWJ-2.4	PH-7AWJK	PH-7AWJ	1000
3	Packing bag	PH-6AWJ2.4	PH-6AWJ-2.4	PH-6AWJK	PH-6AWJ	1000
2	Certificate	PH-5AWJ2.4	PH-5AWJ-2.4	PH-5AWJK	PH-5AWJ	1000
1	PH series header	PH-4AWJ2.4	PH-4AWJ-2.4	PH-4AWJK	PH-4AWJ	1000
		PH-3AWJ2.4	PH-3AWJ-2.4	PH-3AWJK	PH-3AWJ	1000
		PH-2AWJ2.4	PH-2AWJ-2.4	PH-2AWJK	PH-2AWJ	1000

CUSTOMER DRAWING						Title: Packaging specification	
Drawn	Naihao.Wang	2021.9.6	Unit	Scale	Size	Edition	Part No.: PH-nAWJ series header
Checked	GuoYing.Wang	2022.3.17	mm	/	A4	B1	Previous part No.: PH-nAWJ series header
Approved	Dongxu.Liu	2022.3.17	Sheet No. 1 Of 1				Document No.: BZ-DWG-00833
<b>CWB</b> 浙江合兴电子元件有限公司 CWB Electronics (Zhejiang) Co., Ltd.						Specification No.: PS4110	

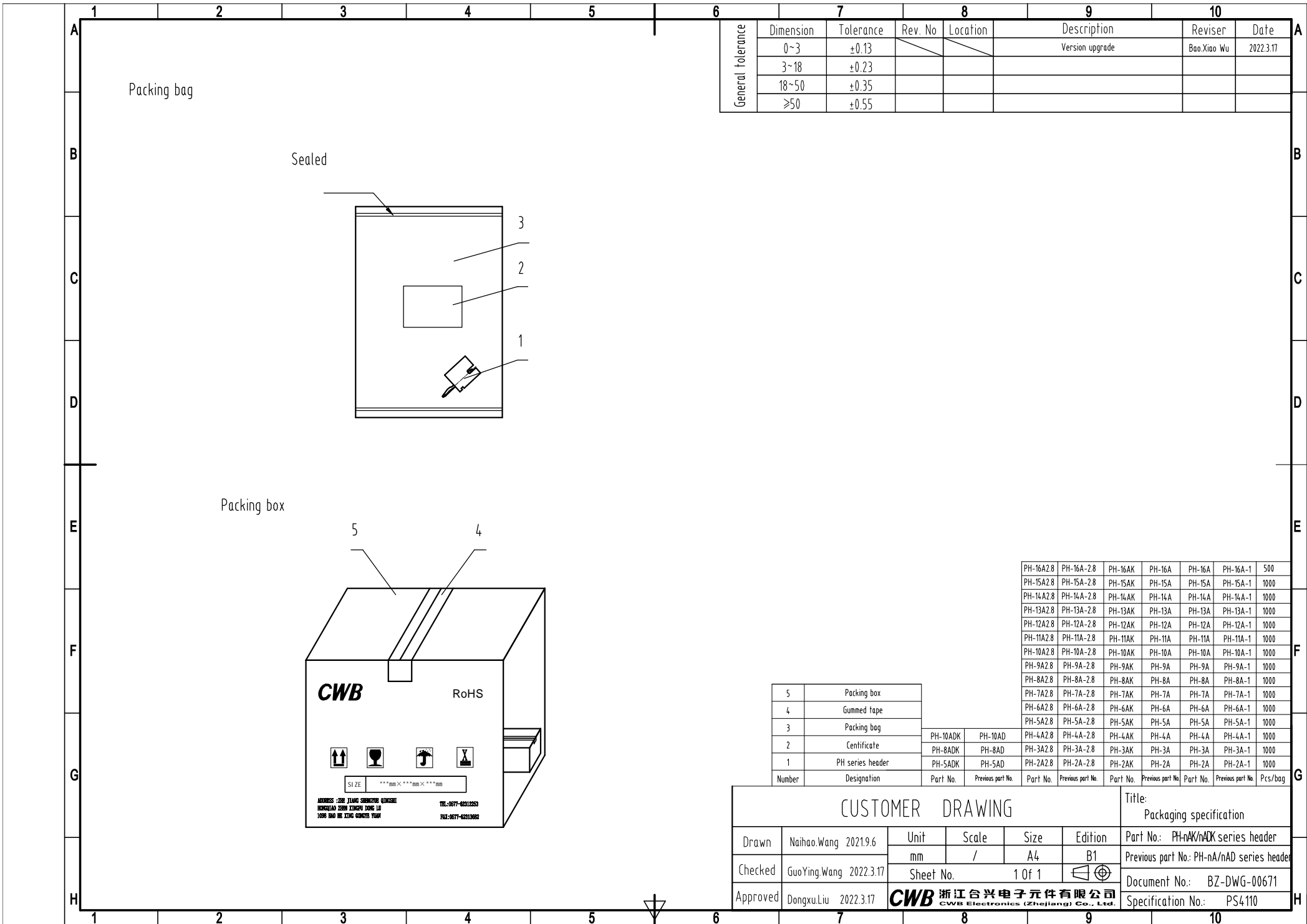


General Tolerance	Dimension	Tolerance	Rev. No	Location	Description	Reviser	Date
	0~3	±0.13			Version upgrade	Bao Xiao Wu	2022.3.17
	3~18	±0.23					
	18~50	±0.35					
	≥50	±0.55					

PH-16AW	PH-16AW-1	PH-16AWK	PH-16AW	500
PH-15AW	PH-15AW-1	PH-15AWK	PH-15AW	500
PH-14AW	PH-14AW-1	PH-14AWK	PH-14AW	500
PH-13AW	PH-13AW-1	PH-13AWK	PH-13AW	500
PH-12AW	PH-12AW-1	PH-12AWK	PH-12AW	500
PH-11AW	PH-11AW-1	PH-11AWK	PH-11AW	500
PH-10AW	PH-10AW-1	PH-10AWK	PH-10AW	500
PH-9AW	PH-9AW-1	PH-9AWK	PH-9AW	1000
PH-8AW	PH-8AW-1	PH-8AWK	PH-8AW	1000
PH-7AW	PH-7AW-1	PH-7AWK	PH-7AW	1000
PH-6AW	PH-6AW-1	PH-6AWK	PH-6AW	1000
PH-5AW	PH-5AW-1	PH-5AWK	PH-5AW	1000
PH-4AW	PH-4AW-1	PH-4AWK	PH-4AW	1000
PH-3AW	PH-3AW-1	PH-3AWK	PH-3AW	1000
PH-2AW	PH-2AW-1	PH-2AWK	PH-2AW	1000
Part No.	Part No.	Part No.	Part No.	Pcs/bag

5	Packing box
4	Gummed tape
3	Packing bag
2	Certificate
1	PH series header
Number	Designation

CUSTOMER DRAWING						Title: Packaging specification	
Drawn	Naihao.Wang	2021.9.6	Unit	Scale	Size	Edition	Part No.: PH-nAW series header
Checked	GuoYing.Wang	2022.3.17	mm	/	A4	B1	Previous part No.: PH-nAW series header
Approved	Dongxu.Liu	2022.3.17	Sheet No. 1 of 1				Document No.: BZ-DWG-00832
<b>CWB</b> 浙江合兴电子元件有限公司 <small>CWB Electronics (Zhejiang) Co., Ltd.</small>						Specification No.: PS4110	



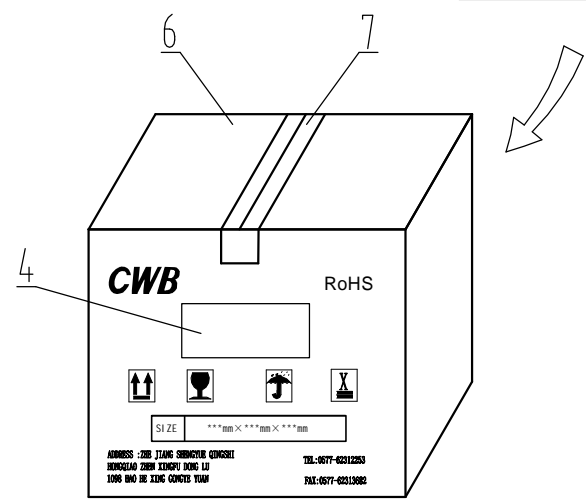
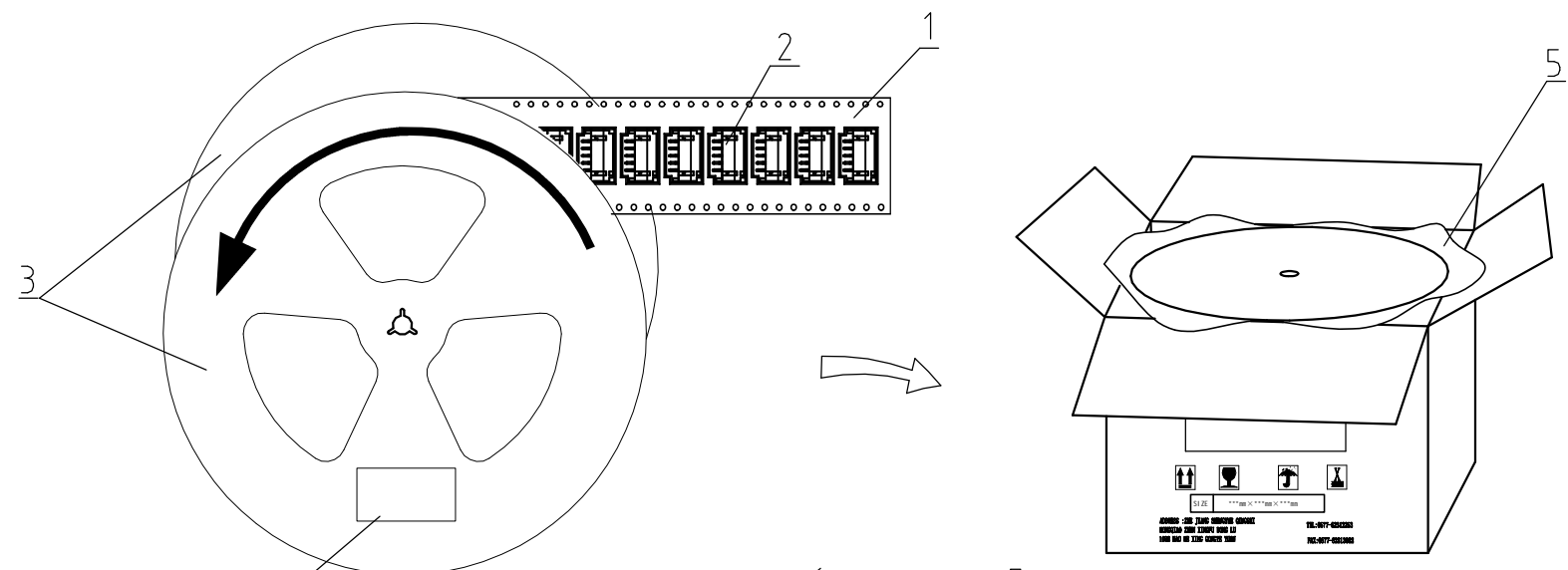
General Tolerance	Dimension	Tolerance	Rev. No	Location	Description	Reviser	Date
	0~3	±0.13			Version upgrade	Bao.Xiao.Wu	2022.3.17
	3~18	±0.23					
	18~50	±0.35					
	≥50	±0.55					

PH-16A2.8	PH-16A-2.8	PH-16AK	PH-16A	PH-16A	PH-16A-1	500				
PH-15A2.8	PH-15A-2.8	PH-15AK	PH-15A	PH-15A	PH-15A-1	1000				
PH-14A2.8	PH-14A-2.8	PH-14AK	PH-14A	PH-14A	PH-14A-1	1000				
PH-13A2.8	PH-13A-2.8	PH-13AK	PH-13A	PH-13A	PH-13A-1	1000				
PH-12A2.8	PH-12A-2.8	PH-12AK	PH-12A	PH-12A	PH-12A-1	1000				
PH-11A2.8	PH-11A-2.8	PH-11AK	PH-11A	PH-11A	PH-11A-1	1000				
PH-10A2.8	PH-10A-2.8	PH-10AK	PH-10A	PH-10A	PH-10A-1	1000				
PH-9A2.8	PH-9A-2.8	PH-9AK	PH-9A	PH-9A	PH-9A-1	1000				
PH-8A2.8	PH-8A-2.8	PH-8AK	PH-8A	PH-8A	PH-8A-1	1000				
PH-7A2.8	PH-7A-2.8	PH-7AK	PH-7A	PH-7A	PH-7A-1	1000				
PH-6A2.8	PH-6A-2.8	PH-6AK	PH-6A	PH-6A	PH-6A-1	1000				
PH-5A2.8	PH-5A-2.8	PH-5AK	PH-5A	PH-5A	PH-5A-1	1000				
PH-4A2.8	PH-4A-2.8	PH-4AK	PH-4A	PH-4A	PH-4A-1	1000				
PH-3A2.8	PH-3A-2.8	PH-3AK	PH-3A	PH-3A	PH-3A-1	1000				
PH-2A2.8	PH-2A-2.8	PH-2AK	PH-2A	PH-2A	PH-2A-1	1000				
Number	Designation	Part No.	Previous part No.	Part No.	Previous part No.	Part No.	Previous part No.	Part No.	Previous part No.	Pcs/bag

5	Packing box
4	Gummed tape
3	Packing bag
2	Certificate
1	PH series header
Number	Designation

CUSTOMER DRAWING						Title: Packaging specification	
Drawn	Naihao.Wang	2021.9.6	Unit	Scale	Size	Edition	
Checked	GuoYing.Wang	2022.3.17	mm	/	A4	B1	
Approved	Dongxu.Liu	2022.3.17	Sheet No.		1 Of 1		Document No.: BZ-DWG-00671
<b>CWB</b> 浙江合兴电子元件有限公司 CWB Electronics (Zhejiang) Co., Ltd.						Specification No.: PS4110	

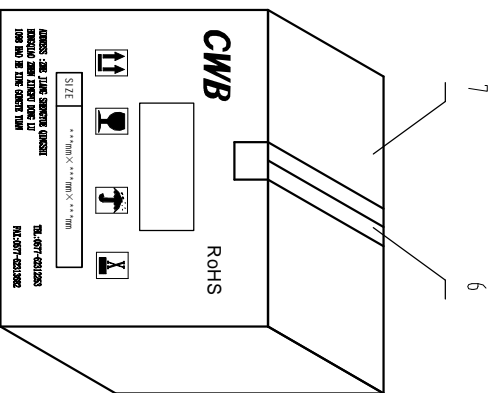
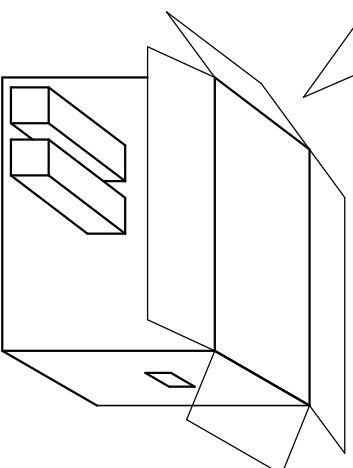
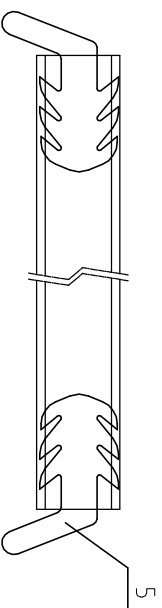
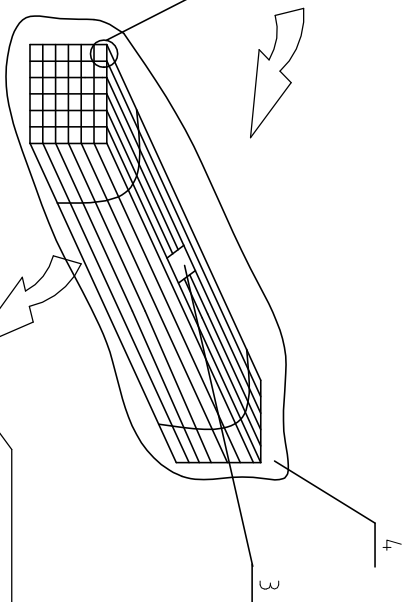
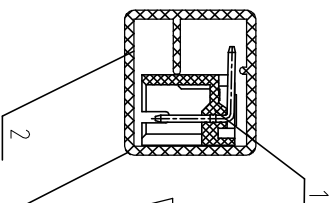
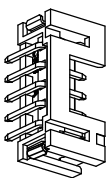
General Tolerance	Dimension	Tolerance	Rev. No	Location	Description	Reviser	Date
	0~3		±0.13			Version upgrade	Bao.Xiao.Wu
3~18		±0.23					
18~50		±0.35					
≥50		±0.55					



Number	Designation	Remarks
7	Gummed tape	
6	Packing box	
5	Packing bag	
4	Certificate	
3	Plastic disc	φ328
2	PH-AWBJ series header	800pcs/reel
1	Carrier tape	

CUSTOMER DRAWING						Title: Packaging specification	
Drawn	Naihao.Wang	2021.9.6	Unit	Scale	Size	Edition	Part No.: PH-nAWBJ(**-*)
Checked	GuoYing.Wang	2022.3.17	mm	/	A4	B1	Part No.: PHC-nA
Approved	Dongxu.Liu	2022.3.17	Sheet No.	1 Of 1			Document No.: BZ-DWG-00674
CWB 浙江合兴电子元件有限公司						Specification No.: PS4110	
CWB Electronics (Zhejiang) Co., Ltd.							

Dimension	Tolerance	Rev. No	Location	Description	Reviser	Date
0~3	±0.13			Version upgrade	Baoxiao Wu	2022.3.17
3~18	±0.23			Version upgrade	Ji.Wu	2022.12.16
18~50	±0.35					
≥50	±0.55					



PH-16AB	12
PH-15AB	12
PH-14AB	13
PH-13AB	14
PH-12AB	15
PH-11AB	16
PH-10AB	18
PH-9AB	19
PH-8AB	21
PH-7AB	24
PH-6AB	27
PH-5AB	31
PH-4AB	36
PH-3AB	43
PH-2AB	54

1	Packing box	PH-8AB	21
2	Gummed tape	PH-7AB	24
3	Chock plug	PH-6AB	27
4	Packing bag	PH-5AB	31
5	Certification	PH-4AB	36
6	Packing tube	PH-3AB	43
7	PH-nAB TP series header	PH-2AB	54

CUSTOMER DRAWING

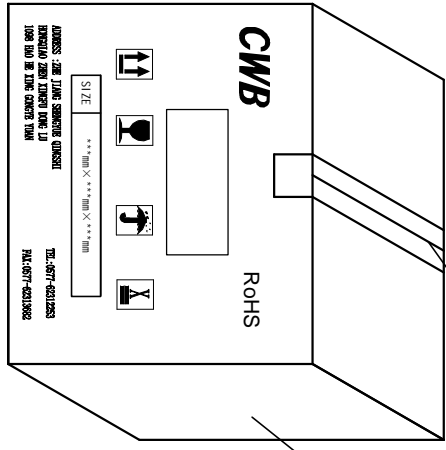
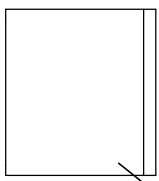
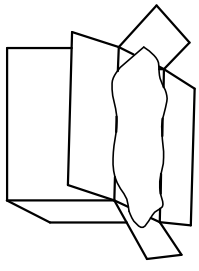
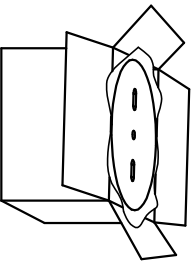
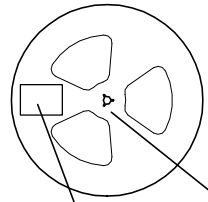
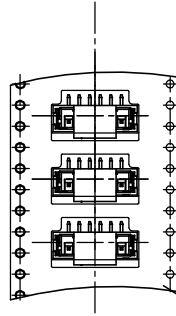
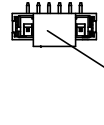
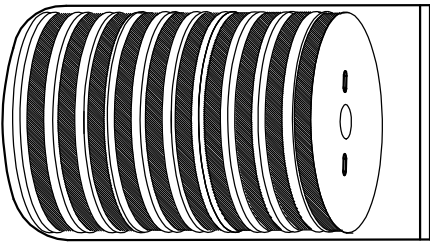
Title: Packaging specification

Drawn	Nahao Wang 2022.9.6	Unit	mm	Scale	/	Size	A4	Edition	/	Part No.:	PH-nAB TP(x-x-X)
Checked	GuoYing Wang 2022.12.16	Sheet No.	1 OF 1							Previous part No.:	PHB-nA
Approved	Dongxuliu 2022.12.16	<b>CWB</b> 浙江合兴电子元件有限公司 CWB Electronics (Zhejiang) Co., Ltd.		Document No.:	BZ-DWG-00672	Specification No.:	PS4.110				

CWB ROHS

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 HANGZHOU ZHEJIANG PROVINCE CHINA  
 110000  
 TEL: 0571-82122288  
 FAX: 0571-82122288

Dimension	Tolerance	Rev. No	Location	Description	Reviser	Date
0~3	±0.13			Version upgrade	Bao Xiao Wu	2022.3.17
3~18	±0.23					
18~50	±0.35					
≥50	±0.55					



Number	Designation	Remarks
1	PH-nABX series header	900pcs/reel
2	Carrier tape	
3	Reel	
4	Certificate	
5	Packing bag	
6	Gummy tape	
7	Packing box	

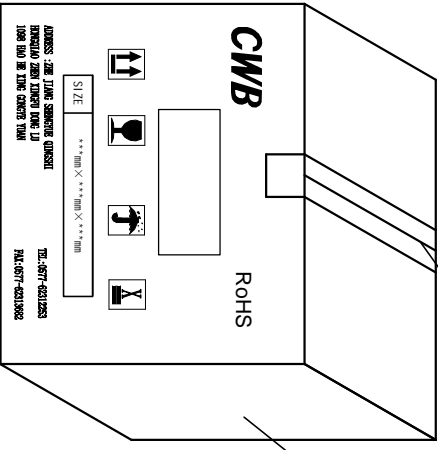
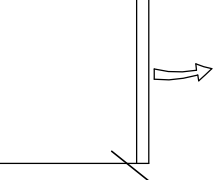
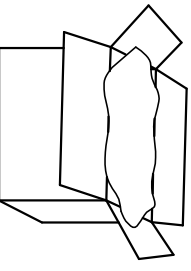
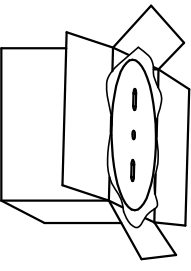
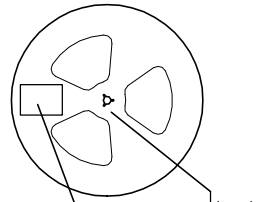
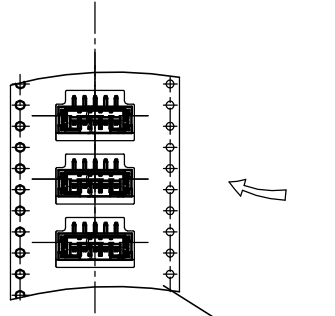
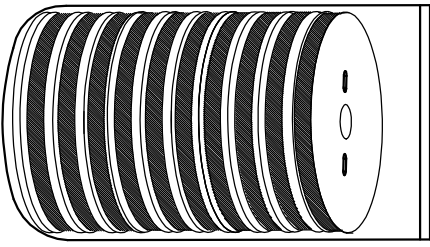
CUSTOMER DRAWING

CUSTOMER DRAWING				Title:	
Drawn	Naihao Wang	2021.9.6	Unit	Scale	Size
Checked	GuoYingWang	2022.3.17	mm	/	A4
Approved	Dongxuliu	2022.3.17	Sheet No.	1 of 1	Edition
			Part No.: PH-nABX(k-k-x)		
			Previous part No.: PH-nAB-1		
			Document No.: BZ-DWG-00673		
			Specification No.: PS4110		

**CWB** 浙江合兴电子元件有限公司  
CWB Electronics (Zhejiang) Co., Ltd.

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CHANGYUAN 3RD FLOOR, TONGJI  
100010 SHANGHAI, CHINA. CONTACT: TINA  
TEL: 0577-85212283 FAX: 0577-85215882

Dimension	Tolerance	Rev. No	Location	Description	Reviser	Date
0~3	±0.13					
3~18	±0.23					
18~50	±0.35					
≥50	±0.55					



Number	Designation	Remarks
1	PH-nAB series header	900pcs/reel
2	Carrier tape	
3	Reel	
4	Certificate	
5	Packing bag	
6	Gummed tape	
7	Packing box	

Drawn		Ji.Wu	2022.12.16
Checked		Guo.Ying.Wang	2022.12.16
Approved		Dongxulu	2022.12.16

CUSTOMER DRAWING

Title: Packaging specification

Part No.: PH-nAB (x\*x-x)

Previous part No.: PH-nAB

Document No.: BZ-DWG-00892

Specification No.: PS4110

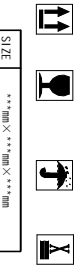
Unit	Scale	Size	Edition
mm	/	A4	/
Sheet No.	1 of 1		

CWB 浙江合兴电子元件有限公司

CWB Electronics (Zhejiang) Co., Ltd.

ADDRESS: 3RD FLOOR, SHANGHAI GONGSHI  
 CHENGDAO 3RD FLOOR, TONGSHI  
 1000 LINDEN BLVD, CHICAGO, ILLINOIS

TEL: 8627-8212283  
 FAX: 8627-8212882



SIZE: \*\*\*mm x \*\*\*mm x \*\*\*mm

A 1 2 3 4 5 6 7 8 9 10

H G F E D C B A

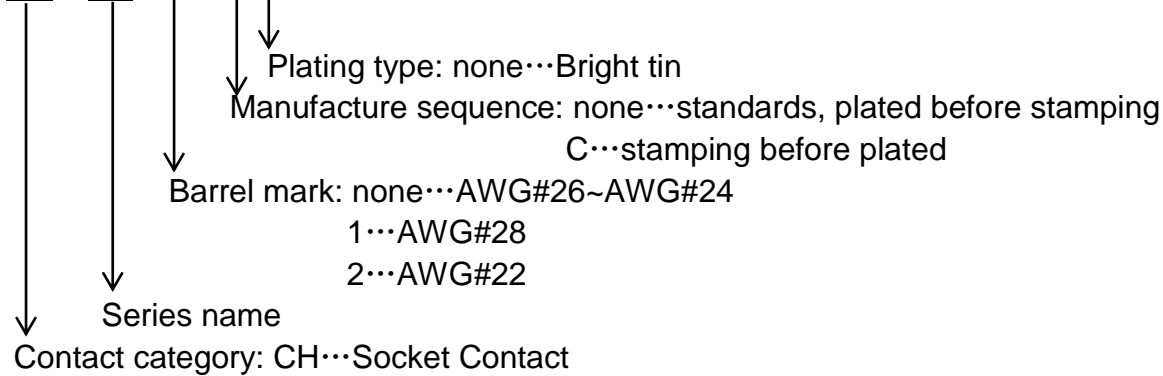
## PH 系列命名规则

### PH series naming conventions

#### 1. Contact

CH-PH-\*\*-\*\*

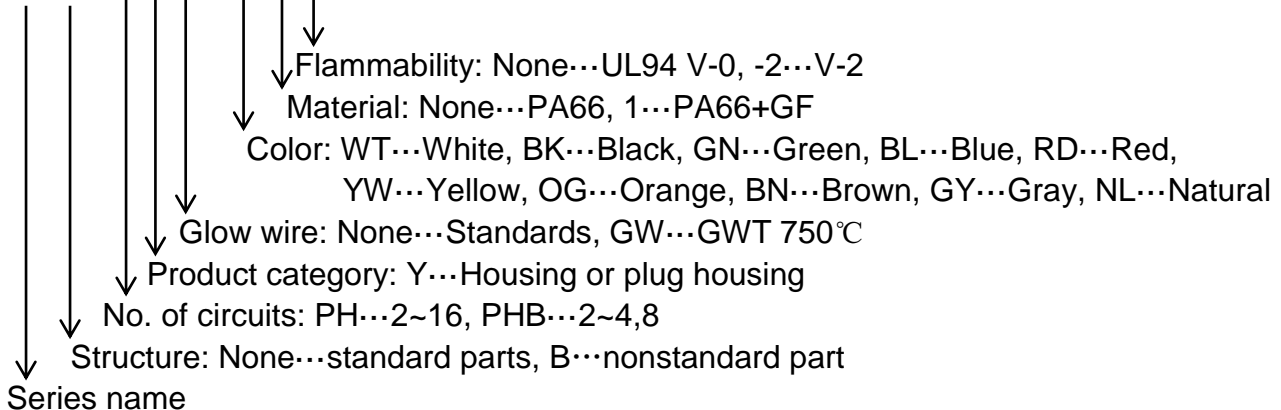
CH - PH - \* - \* \*



#### 2. Housing

PH-nY \*\*(\*\*-\*)

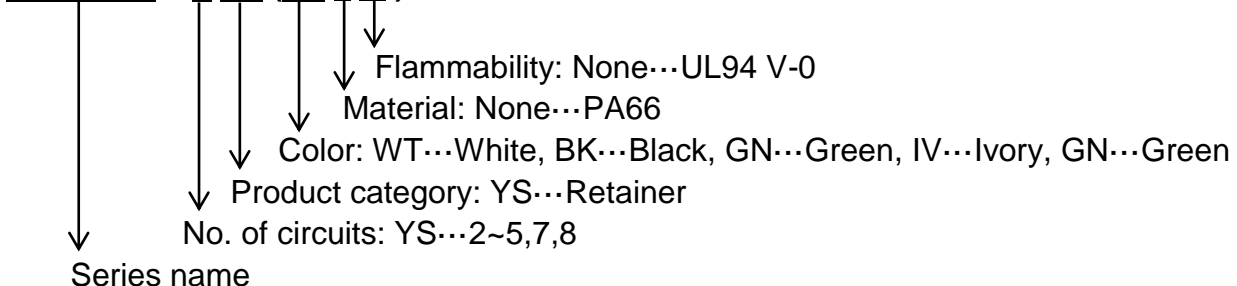
PH B - n Y \* (WT \* -\*)



#### 3. Retainer

TJC20046 -nYS(\*\*-\*)

TJC20046 - n YS (NL \* -\*)

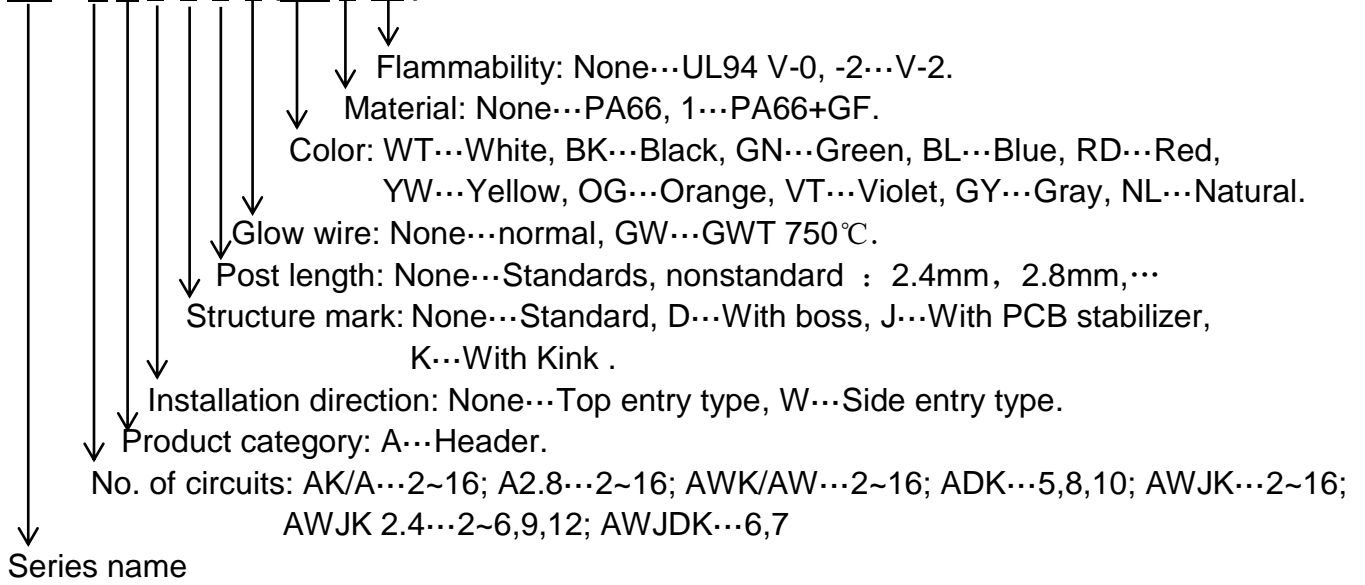




## 4. DIP Header

PH-nAK (\*\*-\*), PH-nA (\*\*-\*), PH-nA2.8 (\*\*-\*), PH-nAWK (\*\*-\*), PH-nAW (\*\*-\*),  
 PH-nADK (\*\*-\*), PH-nAWJK (\*\*-\*), PH-nAWJ2.4 (\*\*-\*), PH-nAWJDK (\*\*-\*)

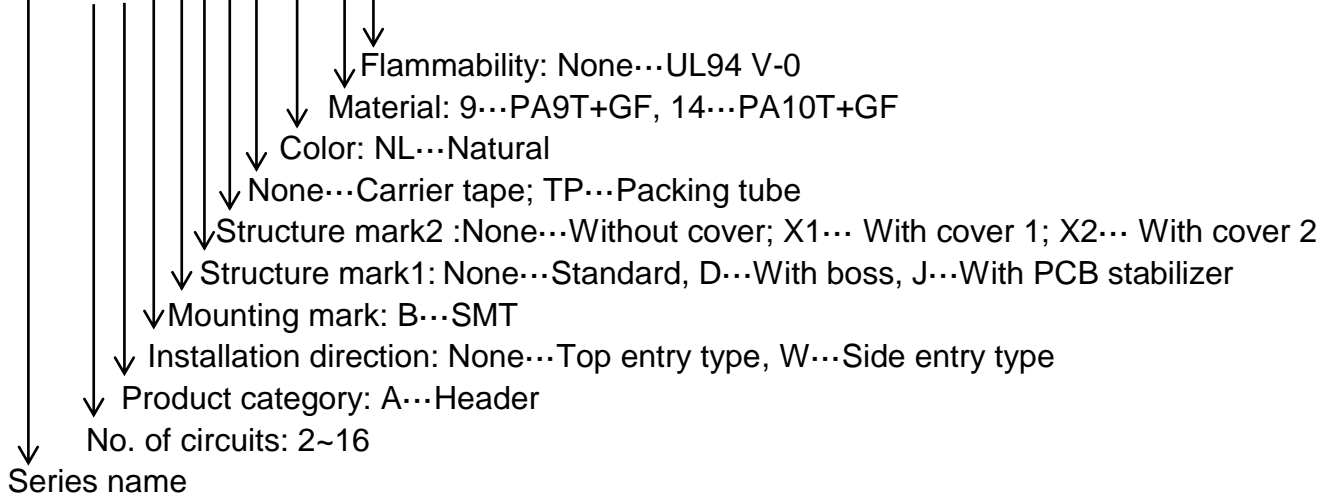
**PH - n A \* \* \* \* (WT \* -\*)**



## 5. SMT Header

PH-nAB (\*\*-\*), PH-nAWBJ (\*\*-\*)

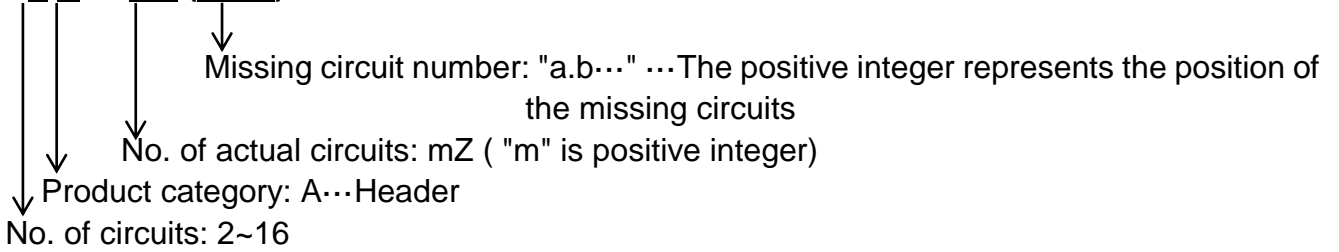
**PH - n A \* \* \* \* (NL \* -\*)**



## 6. Assembly which missing circuits

PH-nAmZ(a.b...) \* (\*\*-\*), PH-nAKmZ(a.b...) \* (\*\*-\*), PH-nAWmZ(a.b...) \* (\*\*-\*),  
 PH-nAWKmZ(a.b...) \* (\*\*-\*), PH-nAWJKmZ(a.b...) \* (\*\*-\*)

...n A ... mZ (a.b...)



Part No.	Circuit No.														
	○:with post; ×:without post														
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
...13A ... 7Z(2.3.5.7.9.11)...	○	×	×	○	×	○	×	○	×	○	×	○	○		
...4A ... 3Z(2)...	○	×	○	○											
.....	.....														