



# 产品规格书

## PRODUCT SPECIFICATION

标题: TJC3 系列连接器

Title: TJC3 Connector

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|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------|-----------------------------------------|
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|                                                                                                                                                                                                                              | 审核 Check:<br><u>王国英 2022.08.26</u>    | 编号 Document No.:<br><u>PS4115</u>       |
|                                                                                                                                                                                                                              | 批准 Approval:<br><u>刘冬旭 2022.08.26</u> | 版本 Revision:<br><u>V4</u>               |



| 版本号<br>Version No. | 更改前描述<br>Description before modification | 更改后描述<br>Description after modification                                                       | 更改人/日期<br>Reviser/Date   |
|--------------------|------------------------------------------|-----------------------------------------------------------------------------------------------|--------------------------|
| V0                 | /                                        | 初版发行                                                                                          | 路欢/2021/8/25             |
| V1                 | /                                        | Update specifications and part no according to new naming specifications                      | 尹恒 2022/03/25            |
| V2                 | /                                        | TJC3-nAWB/nABX 图纸错误更改<br>TJC3-nAWB /nABX drawing error changed                                | 尹恒 2022/07/6             |
| V3                 | /                                        | 新增 TJC3-nAT 编带产品，更新适用导线名称<br>Added TJC3-nAT tape product and updated the applicable wire name | 尹恒 Heng.Yin<br>2022/8/26 |
| V4                 | /                                        | SMT 产品新增 PA10T 材料<br>PA10T material is added to SMT products                                  | 尹恒 Heng.Yin<br>2023/3/1  |
|                    |                                          |                                                                                               |                          |
|                    |                                          |                                                                                               |                          |
|                    |                                          |                                                                                               |                          |
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# 产品规格书

## PRODUCT SPECIFICATION

### 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 2.5 阴型 & 阳型电子连接器，产品名称：TJC3 系列连接器。

This product specification covers the requirement for wire to board 2.5mm pitch Receptacle & Plug connector, which are designed and manufactured by CWB Electronics(ZheJiang) Co.,LTD. P/N: TJC3 Connector.

### 3. 产品描述 Product description

TJC3 系列连接器产品为家电连接器产品，产品部件组成如下：

The TJC3 series connector designed for home appliances connection. part checklist as following form:

| Part name<br>产品名称                                                   | Part No.<br>规格型号  | Previous part No.<br>曾用规格型号 | Description<br>描述                                                                                      |
|---------------------------------------------------------------------|-------------------|-----------------------------|--------------------------------------------------------------------------------------------------------|
| 阳连接器（立式，直插）<br>Header (V, DIP, W/Kink)                              | TJC3-nA (**-*)    | TJC3-nA(无小弯)                | Wafer: PA66 UL94 V-0, PA66 UL94 V-2<br>Post: Brass, tin plated                                         |
| 阳连接器（立式，直插，含小弯）<br>Header (V, DIP, W/Kink)                          | TJC3-nAK(**-*)    | TJC3-nA                     | Wafer: PA66 UL94 V-0, PA66 UL94 V-2,<br>PA66+GF V-2, PA66 UL94 V-0 GWT 750℃<br>Post: Brass, tin plated |
| 阳连接器（立式，直插，含小弯）<br>Header (V, DIP, W/Kink)                          | TJC3-nAK3.2(**-*) | TJC3-nA-3.2                 | Wafer: PA66 UL94 V-0, PA66 UL94 V-2<br>Post: Brass, tin plated                                         |
| 阳连接器（立式，直插，含小弯，带锁扣）<br>Header (V, DIP, W/Kink, W/Lock)              | TJC3-nAK-1(**-*)  | TJC3-nAS                    | Wafer: PA66 UL94 V-0<br>Post: Brass, tin plated                                                        |
| 阳连接器（立式，直插，含定位柱，含小弯）<br>Header (V, DIP, W/Boss, W/Kink)             | TJC3-nADK(**-*)   | TJC3-nAD                    | Wafer: PA66 UL94 V-0, PA66 UL94 V-2<br>Post: Brass, tin plated                                         |
| 阳连接器（立式，直插，含小弯，带锁扣）<br>Header (V, DIP, W/Kink, W/Lock)              | TJC3B-2AK (**-*)  | TJC3-2ADS                   | Wafer: PA66 UL94 V-0, PA66 UL94 V-2<br>Post: Brass, tin plated                                         |
| 阳连接器（立式，直插，含小弯，含定位柱，带锁扣）<br>Header (V, DIP, W/Kink, W/Boss, W/Lock) | TJC3-nADK-1(**-*) | TJC3-nADS                   | Wafer: PA66 UL94 V-0, PA66 UL94 V-2<br>Post: Brass, tin plated                                         |
| 阳连接器（卧式，直插）<br>Header (H, DIP)                                      | TJC3-nAW*(**-*)   | TJC3-nAW                    | Wafer: PA66 UL94 V-0, PA66 UL94 V-2,<br>PA66 UL94 V-0 GWT 750℃<br>Post: Brass, tin plated              |
| 阳连接器(卧式，直插)<br>Header (H, DIP)                                      | TJC3-nAW3.2(**-*) | TJC3-nAW-3.2                | Wafer: PA66 UL94 V-0<br>Post: Brass, tin plated                                                        |
| 阳连接器（卧式，直插）<br>Header (H, DIP)                                      | TJC3-nAW-1(**-*)  | TJC3-nAW(高平弯)               | Wafer: PA66 UL94 V-2<br>Post: Brass, tin plated                                                        |
| 阳连接器（立式，直插，带挡板）<br>Header (V, DIP, W/PCB stabilizer)                | TJC3-nAJ(**-*)    | TJC3-nAJ                    | Wafer: PA66 UL94 V-2<br>Post: Brass, tin plated                                                        |
| 阳连接器（卧式，直插，带挡板）<br>Header (H, DIP, W/PCB stabilizer)                | TJC3-nAWJ(**-*)   | TJC3-nAWJ(无小弯)              | Wafer: PA66 UL94 V-0, PA66 V-2<br>Post: Brass, tin plated                                              |

|                       |            |                    |        |                    |    |
|-----------------------|------------|--------------------|--------|--------------------|----|
| 产品名称<br>Product name: | TJC3 系列连接器 | 编号<br>Document No. | PS4115 | 版本号<br>Version No. | V4 |
|-----------------------|------------|--------------------|--------|--------------------|----|



# 产品规格书

## PRODUCT SPECIFICATION

|                                                                  |                    |                   |                                                                                                     |
|------------------------------------------------------------------|--------------------|-------------------|-----------------------------------------------------------------------------------------------------|
| 阳连接器（卧式，直插，含小弯，带挡板）<br>Header (H, DIP, W/Kink, W/PCB stabilizer) | TJC3-nAWJK(**-*)   | TJC3-nAWJ         | Wafer: PA66 UL94 V-0, PA66 V-2, PA66+GF UL94 V-0, PA66 UL94 V-0 GWT 750℃<br>Post: Brass, tin plated |
| 阳连接器（卧式，直插，带挡板）<br>Header (V, DIP, W/PCB stabilizer)             | TJC3-nAWJ3.2(**-*) | TJC3-nAWJ-3.2(平弯) | Wafer: PA66 UL94 V-0, PA66 UL94 V-2<br>Post: Brass, tin plated                                      |
| 阳连接器（立式，表面装贴，带吸嘴盖）<br>Header (V, SMT, With cover)                | TJC3-nABX(**-*)    | TJC25061-nAB      | Wafer: PA9T+GF UL94 V-0/PA10T+GF UL94 V-0<br>Post: Brass, tin plated                                |
| 阳连接器（卧式，表面装贴）<br>Header (H, SMT)                                 | TJC3-nAWB(**-*)    | TJC25061-nAWB     | Wafer: PA9T+GF UL94 V-0/PA10T+GF UL94 V-0<br>Post: Brass, tin plated                                |
| 阳连接器（立式，直插）<br>Header(V, DIP)                                    | TJC3-nAT(**-*)     | TJC3-nA-1         | Wafer: PA66 UL94 V-2<br>Post: Brass, tin plated                                                     |
| 孔座 Housing                                                       | TJC3-nY* (**-*)    | TJC3-nY           | PA66 UL94 V-0, PA66 UL94V-2, PA66 UL94 V-0 GWT 750℃                                                 |
| 插簧 Contact                                                       | CH-TJC3-**-        | TJC3              | AWG#24~AWG#22                                                                                       |
| 插簧 Contact                                                       | CH-TJC3-1-**-      | TJC3-1            | AWG#26                                                                                              |
| 插簧 Contact                                                       | CH-TJC3-2-**-      | TJC3-2            | AWG#28                                                                                              |
| 插簧 Contact                                                       | CH-TJC3B-**-       | TJC3(2.5 宽)       | AWG#24~AWG#22                                                                                       |

#### 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<br>Environmental testing —— General and guidance                                                                  |
| GB/T 2423                    | 环境试验 试验方法<br>Environmental testing —— Test methods                                                                           |
| GB/T 2424                    | 环境试验 支持文件及导则<br>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<br>Electromrchanical components for electronic equipment Basic testing procedures and measuring methods |
| EIA-364                      | EIA-364 系列标准<br>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<br>Solderabilith Tests for Component Leads, Terminations, Lugs, Terminals and Wires                        |

产品符合 RoHS 标准。

The product should comply with RoHS.

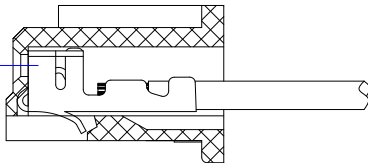
|                       |            |                    |        |                    |    |
|-----------------------|------------|--------------------|--------|--------------------|----|
| 产品名称<br>Product name: | TJC3 系列连接器 | 编号<br>Document No. | PS4115 | 版本号<br>Version No. | V4 |
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## 5. 参数范围 Parameter ratings:

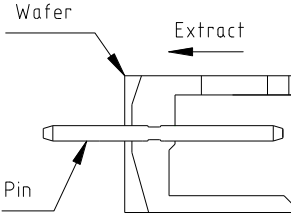
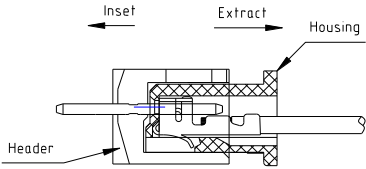
|                                                                                                            |                                                                         |                                                                                                                           |                |              |
|------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------|----------------|--------------|
| 额定电流 [AC(有效值)/DC]<br>Rated current [AC(rms)/DC]                                                            | AWG#28<br>1.5A                                                          | AWG#26<br>2A                                                                                                              | AWG#24<br>2.5A | AWG#22<br>3A |
| 适用 PCB 板<br>Applicable PCB                                                                                 | Board thickness: 0.8~1.6mm<br>Hole diameter: $\phi$ 0.9mm~ $\phi$ 1.0mm |                                                                                                                           |                |              |
| 额定电压[AC(有效值)/DC]<br>Rated voltage [AC(rms)/DC]                                                             | 250V                                                                    |                                                                                                                           |                |              |
| 使用温度范围（包含温升）<br>Operating temperature range<br>(include temperature rise)                                  | -30℃~+105℃                                                              |                                                                                                                           |                |              |
| 适用线型（具体适用线型请参考<br>压接规格书）<br>Applicable wires(Please refer to<br>the crimping specification for<br>details) | CH-TJC3                                                                 | Wire size: AWG#24~AWG#22 (0.21 mm <sup>2</sup> ~0.33 mm <sup>2</sup> )<br>Insulation diameter: $\phi$ 1.4mm~ $\phi$ 1.6mm |                |              |
|                                                                                                            | CH-TJC3-1                                                               | Wire size: AWG#26 (0.13 mm <sup>2</sup> )<br>Insulation diameter: $\phi$ 1.3mm                                            |                |              |
|                                                                                                            | CH-TJC3-2                                                               | Wire size: AWG#28 (0.08 mm <sup>2</sup> )<br>Insulation diameter: $\phi$ 1.2mm                                            |                |              |
|                                                                                                            | CH-TJC3B                                                                | Wire size: AWG#24~AWG#22 (0.21 mm <sup>2</sup> ~0.33 mm <sup>2</sup> )<br>Insulation diameter: $\phi$ 1.4mm~ $\phi$ 1.6mm |                |              |

## 6. 产品性能 Performance

## 6.1 机械性能 Mechanical

| 序号<br>No. | 项 目 Item                                                     | 测试条件 Test condition                                                                                                                                                                                                                                                                                                 | 规 格 Requirement                                                                                                                                                                                                                                                   |                                                                            |
|-----------|--------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------|
| 6.1.1     | 外观<br>Appearance                                             | 目测<br>Checking by eyes<br>视力: 1.0 以上<br>Eyesight: > 1.0<br>照明: (200~300) lx<br>Lamp: (200~300) lx<br>目测距离: (0.3~0.5) m<br>Space: (0.3~0.5) m<br>GB/T 5095.2 Method 1a                                                                                                                                               | 1.塑料件表面应无明显疤痕、凹陷、开裂及影响使用的变形。<br>Plastic part: smooth and flat surface without discolor, broken, crack, and distortion, etc.<br>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。<br>Metal part: bright and even surface without rust, oxide, fog and obvious physical damage, etc. |                                                                            |
| 6.1.2     | 端子插入力与固定力<br>Insertion force and retention force for contact | 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。<br>The force of inserting and pulling the contact into and out of the housing along the axis shall be measured (Testing speed: <25 mm/min.)<br>GB/T 5095.8 Method 15d / EIA-364-29B<br> | 插入力 (最大值)<br>Insertion force (Max.)                                                                                                                                                                                                                               | 固定力 (不带锁紧片测试) (最小值)<br>Retention force (Test without locking plate) (Min.) |
|           |                                                              |                                                                                                                                                                                                                                                                                                                     | 10N                                                                                                                                                                                                                                                               | 25N                                                                        |

|                       |            |                    |        |                    |    |
|-----------------------|------------|--------------------|--------|--------------------|----|
| 产品名称<br>Product name: | TJC3 系列连接器 | 编号<br>Document No. | PS4115 | 版本号<br>Version No. | V4 |
|-----------------------|------------|--------------------|--------|--------------------|----|

|                       |                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                             |                                |                                |            |
|-----------------------|--------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------|--------------------------------|--------------------------------|------------|
| 6.1.3                 | 针的固定力<br>Post retention force                                      | <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。<br/>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.<br/>(Testing speed: &lt;25 mm/min.)<br/><b>GB/T 5095.8 Method 15a / EIA-364-29B</b></p>                                         | <p>TJC3-nAT: 25N Min<br/>Other: 10N Min</p> |                                |                                |            |
| 6.1.4                 | 插簧与插针的插拔力<br>Insertion and withdrawal force for pin in the contact | <p>固定连接器或/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。<br/>Insert the pin contact into and pull out the socket contact in the direction of the terminal axis (Testing speed: &lt;25 mm/min.)<br/><b>GB/T 5095.7 Method 13b / EIA-364-13B</b></p>                                                                                                                                                                                     | 插入力<br>(Insertion force) Max.               | 拔出力<br>(Withdrawal force) Min. |                                |            |
|                       |                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                   | 9.8N                                        | 0.2N                           |                                |            |
| 6.1.5                 | 成品插入力与拔出力<br>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。<br/>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.)<br/><b>GB/T 5095.7 Method 13b / EIA-364-13B</b></p>  | No. of Poles                                | 插入力(最大值)<br>Insertion (Max.)   | 拔出力 (最小值)<br>Withdrawal (Min.) |            |
|                       |                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                             | 初次 1st.                        | 初次 1st.                        | 第五十次 50th. |
|                       |                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                   | 2P                                          | 29.4N                          | 7.8N                           | 5.9N       |
|                       |                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                   | 3P                                          | 34.3 N                         | 9.8N                           | 7.8N       |
|                       |                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                   | 4P                                          | 39.2N                          | 11.8N                          | 8.8N       |
|                       |                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                   | 5P                                          | 44.1N                          | 11.8N                          | 8.8N       |
|                       |                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                   | 6P                                          | 49.0N                          | 13.7N                          | 9.8N       |
|                       |                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                   | 7P                                          | 53.9N                          | 13.7N                          | 9.8N       |
|                       |                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                   | 8P                                          | 58.8N                          | 15.7N                          | 11.8N      |
|                       |                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                   | 9P                                          | 63.7N                          | 15.7N                          | 11.8N      |
|                       |                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                   | 10P                                         | 68.6N                          | 17.6N                          | 13.7N      |
|                       |                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                   | 11P                                         | 73.5N                          | 17.6N                          | 13.7N      |
|                       |                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                   | 12P                                         | 78.4N                          | 19.6N                          | 15.7N      |
|                       |                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                   | 13P                                         | 83.3N                          | 19.6N                          | 15.7N      |
|                       |                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                   | 14P                                         | 88.2N                          | 21.6N                          | 17.6N      |
|                       |                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                   | 15P                                         | 93.1N                          | 23.5N                          | 19.6N      |
|                       |                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                   | 16P                                         | 98.0N                          | 23.5N                          | 19.6N      |
|                       |                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                             |                                |                                |            |
| 产品名称<br>Product name: | TJC3 系列连接器                                                         | 编号<br>Document No.                                                                                                                                                                                                                                                                                                                                                                                                                | PS4115                                      | 版本号<br>Version No.             | V4                             |            |



# 产品规格书

## PRODUCT SPECIFICATION

|                       |                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 极数<br>No. of<br>poles                                                                                                                                                 | 插入力(最大值)<br>Insertion (Max.) | 拔出力 (最小值)<br>Withdrawal (Min.) |            |
|-----------------------|---------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|--------------------------------|------------|
|                       |                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                       | 初次 1st.                      | 初次 1st.                        | 第五十次 50th. |
| 6.1.6                 | 成品插入力与拔出力<br>(去锁扣)<br>Insertion force and<br>withdrawal force<br>(without lock) | 将装有已压接端子的孔座与阳连接器做插入和拔出，<br>测量首次插入力、首次拔出力及第50次拔出力，测试<br>速度不大于25 mm/min.。<br>适用产品：TJC3-nAK-1、TJC3-nADK-1、TJC3B-nAK、<br>TJC3-nABX、TJC3-nAWB<br>A housing with crimped contacts and a header shall be<br>mated and unmated on the mating axis. Initial insertion<br>and withdrawal forces and withdrawal force at 50th.<br>shall be measured. (Testing speed: <25 mm/min.)<br>applicable product: TJC3-nAK-1、TJC3-nADK-1、<br>TJC3B-nAK、TJC3-nABX、TJC3-nAWB<br><b>GB/T 5095.7 Method 13b / EIA-364-13B</b> | 2P                                                                                                                                                                    | 29.4N                        | 1.2N                           | 0.6N       |
|                       |                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 3P                                                                                                                                                                    | 34.3 N                       | 1.8N                           | 0.9N       |
|                       |                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 4P                                                                                                                                                                    | 39.2N                        | 2.4N                           | 1.2N       |
|                       |                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 5P                                                                                                                                                                    | 44.1N                        | 3.0N                           | 1.5N       |
|                       |                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 6P                                                                                                                                                                    | 49.0N                        | 3.6N                           | 1.8N       |
|                       |                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 7P                                                                                                                                                                    | 53.9N                        | 4.2N                           | 2.1N       |
|                       |                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 8P                                                                                                                                                                    | 58.8N                        | 4.8N                           | 2.4N       |
|                       |                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 9P                                                                                                                                                                    | 63.7N                        | 5.4                            | 2.7N       |
|                       |                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 10P                                                                                                                                                                   | 68.6N                        | 6.0N                           | 3.0N       |
|                       |                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 11P                                                                                                                                                                   | 73.5N                        | 6.5N                           | 3.3N       |
|                       |                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 12P                                                                                                                                                                   | 78.4N                        | 7.1N                           | 3.6N       |
|                       |                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 13P                                                                                                                                                                   | 83.3N                        | 7.7N                           | 3.9N       |
|                       |                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 14P                                                                                                                                                                   | 88.2N                        | 8.3N                           | 4.2N       |
|                       |                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 15P                                                                                                                                                                   | 93.1N                        | 8.9N                           | 4.5N       |
|                       |                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 16P                                                                                                                                                                   | 98.0N                        | 9.5N                           | 4.8N       |
| 6.1.7                 | 压着部位抗张强度<br>Crimp tensile strength                                              | 在已压接端子的头部和导线上施加拉力，并测量将导<br>线从端子拉出或导线断裂所需的力，测试速度不大于<br>25 mm/min.。<br>Pulling load shall be applied to a correctly crimped<br>contact and a wire. The load required to pull the wire out<br>of the contact or break the wire shall be measured.<br>(Testing speed: <25 mm/min.)<br><b>GB/T5095.8 Method 16d / EIA-364-08B</b>                                                                                                                                                                          | AWG#28: 10N Min.<br>AWG#26: 20N Min.<br>AWG#24: 30N Min.<br>AWG#22: 40N Min.                                                                                          |                              |                                |            |
| 6.1.8                 | 机械振动<br>Vibration                                                               | 插合连接器，串联在直流电源上，电流100mA；并模<br>拟正常工作状态：振频为（10~55~10）Hz，每个循<br>环时间为1分钟，振幅1.52mm。沿XYZ三轴正反方向<br>各循环2小时<br>Mate connectors subjected them to following vibration<br>conditions, for a period of 2 hours in each of 3 mutually<br>perpendicular axes, 100 mA current shall be applied.<br>Frequency: (10~55~10)Hz/min.<br>Cycling time: 1 min.<br>Amplitude: 1.52mm.<br><b>GB/T 5095.4 Method 6d / EIA-364-28D</b>                                                                                           | 外观：无损伤（参照6.1.1）<br>Appearance: no damage.( refer to 6.1.1)<br>接触电阻：20mΩ Max.<br>Contact resistance: 20mΩ Max.<br>电流中断时间: 1μsec Max<br>Current interruption: 1μsec Max |                              |                                |            |
| 产品名称<br>Product name: |                                                                                 | TJC3 系列连接器                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 编号<br>Document No.                                                                                                                                                    | PS4115                       | 版本号<br>Version No.             | V4         |



# 产品规格书

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|        |                    |                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                    |
|--------|--------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------|
| 6.1.9  | 机械冲击<br>Shock      | 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<br>冲击强度：490m/s <sup>2</sup><br>持续时间：11ms<br>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)<br>Test pulse: 490m/s <sup>2</sup><br>Duration: 11ms<br><b>GB/T 5095.4 Method 6c / EIA-364-27B</b> | 外观：无损伤（参照6.1.1）<br>Appearance: no damage.( refer to 6.1.1)<br>电流中断时间: 1μsec Max<br>Current interruption: 1μsec Max |
| 6.1.10 | 机械寿命<br>Durability | 以每分钟 10 次的速度插拔 50 次<br>50 cycles for mating and unmating test at the speed of 10 cycles per minute<br><b>GB/T 5095.5 Method 9a / EIA-364-09C</b>                                                                                                                                                                                                                                                                           | 外观：无损伤（参照6.1.1）<br>Appearance: no damage.( refer to 6.1.1)<br>接触电阻：20mΩ Max.<br>Contact resistance: 20mΩ Max.      |

## 6.2 电气性能 Electrical

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

|                       |            |                    |        |                    |    |
|-----------------------|------------|--------------------|--------|--------------------|----|
| 产品名称<br>Product name: | TJC3 系列连接器 | 编号<br>Document No. | PS4115 | 版本号<br>Version No. | V4 |
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### 6.3 环境性能 Environmental

| 序号<br>No.   | 项 目 Item                    | 测试条件 Test condition                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 规 格 Requirement                                                                                                                                                                                                            |   |          |   |       |      |   |            |                |   |       |      |   |            |                |                                                                                                                                                                                                                            |
|-------------|-----------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|----------|---|-------|------|---|------------|----------------|---|-------|------|---|------------|----------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 6.3.1       | 耐高温<br>Heat resistance      | 连接器配合后，于（105±2）℃的空气中放置 240 小时，再回到室温中放置（1~2）小时测定<br>Mated connectors exposed to the condition of (105±2)℃ for 240 hours, recovery time (1~2) hours<br><b>GB/T 5095.6 Method 11i / EIA-364-17B</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 外观：无损伤（参照6.1.1）<br>Appearance: no damage.( refer to 6.1.1)<br>接触电阻：20mΩ Max.<br>Contact resistance: 20mΩ Max.<br>绝缘电阻：500 MΩ Min.<br>Insulation resistance:500 MΩ Min.<br>耐电压：1000V Min.<br>Withstand voltage: 1000V Min.  |   |          |   |       |      |   |            |                |   |       |      |   |            |                |                                                                                                                                                                                                                            |
| 6.3.2       | 耐低温<br>Cold resistance      | 连接器配合后，于（-40±2）℃的空气中放置 96 小时，再回到室温中放置（1~2）小时测定<br>Mated connectors exposed to the condition of (-40±2)℃ for 96hours, recovery time (1~2) hours<br><b>GB/T 5095.6 Method 11j / EIA-364-17B</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 外观：无损伤（参照6.1.1）<br>Appearance: no damage.( refer to 6.1.1)<br>接触电阻：20mΩ Max.<br>Contact resistance: 20mΩ Max.<br>绝缘电阻：500 MΩ Min.<br>Insulation resistance:500 MΩ Min.<br>耐电压：1000V Min.<br>Withstand voltage: 1000V Min.  |   |          |   |       |      |   |            |                |   |       |      |   |            |                |                                                                                                                                                                                                                            |
| 6.3.3       | 恒定湿热<br>Humidity            | 温度（40±2）℃，<br>相对湿度（90～95）%<br>搁置时间 240 小时，取出恢复（1~2）小时后检查。<br>Mated connectors exposed to the condition of temperature (40±2)℃, humidity (90~95)% for 240 hours, recovery time (1~2) hours<br>GB/T 5095.6 Method 11c /EIA-364-31B                                                                                                                                                                                                                                                                                                                                                                                                                           | 外观：无损伤（参照6.1.1）<br>Appearance: no damage.( refer to 6.1.1)<br>接触电阻：20mΩ Max.<br>Contact resistance: 20mΩ Max.<br>绝缘电阻：500 MΩ Min.<br>Insulation resistance: 500 MΩ Min.<br>耐电压：1000V Min.<br>Withstand voltage: 1000V Min. |   |          |   |       |      |   |            |                |   |       |      |   |            |                |                                                                                                                                                                                                                            |
| 6.3.4       | 温度循环<br>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：<br>a) 在（-55±2）℃的恒温条件下放置 0.5 小时；<br>b) 在（85±2）℃的恒温条件下放置 0.5 小时；<br>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<br>Mated connectors shall be tested under the following conditions<br><table><tr><th>Temperature</th><th>℃</th><th>Duration</th></tr><tr><td>1</td><td>-55±2</td><td>0.5h</td></tr><tr><td>2</td><td>Room Temp.</td><td>5 minutes Max.</td></tr><tr><td>3</td><td>+85±2</td><td>0.5h</td></tr><tr><td>4</td><td>Room Temp.</td><td>5 minutes Max.</td></tr></table><br>Step 1 to 4 is one cycle,25 cycles shall be tested, recovery time (1~2) hours<br><b>GB/T 5095.6 method 11d / EIA-364-32C</b> | Temperature                                                                                                                                                                                                                | ℃ | 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）<br>Appearance: no damage.( refer to 6.1.1)<br>接触电阻：20mΩ Max.<br>Contact resistance: 20mΩ Max.<br>绝缘电阻：500 MΩ Min.<br>Insulation resistance: 500 MΩ Min.<br>耐电压：1000V Min.<br>Withstand voltage: 1000V Min. |
| Temperature | ℃                           | Duration                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                            |   |          |   |       |      |   |            |                |   |       |      |   |            |                |                                                                                                                                                                                                                            |
| 1           | -55±2                       | 0.5h                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                            |   |          |   |       |      |   |            |                |   |       |      |   |            |                |                                                                                                                                                                                                                            |
| 2           | Room Temp.                  | 5 minutes Max.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                            |   |          |   |       |      |   |            |                |   |       |      |   |            |                |                                                                                                                                                                                                                            |
| 3           | +85±2                       | 0.5h                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                            |   |          |   |       |      |   |            |                |   |       |      |   |            |                |                                                                                                                                                                                                                            |
| 4           | Room Temp.                  | 5 minutes Max.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                            |   |          |   |       |      |   |            |                |   |       |      |   |            |                |                                                                                                                                                                                                                            |

产品名称  
Product name:

TJC3 系列连接器

编号  
Document No.

PS4115

版本号  
Version No.

V4



# 产品规格书

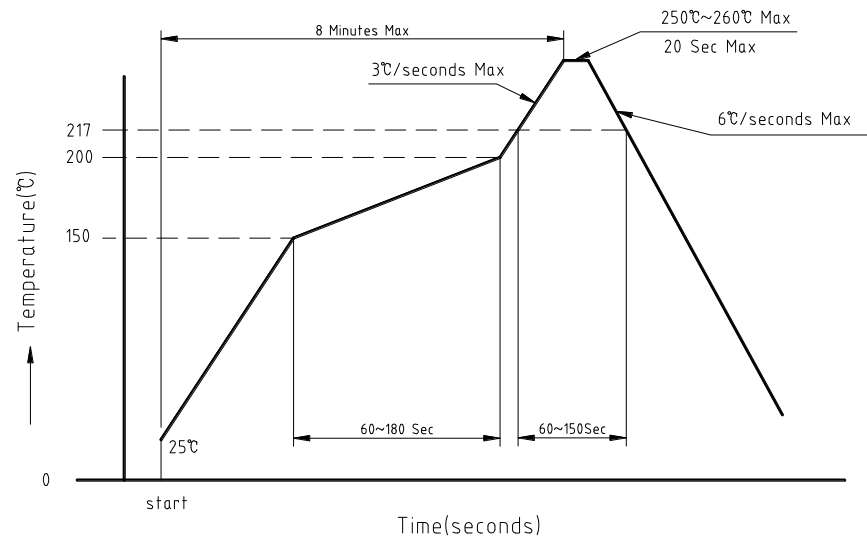
## PRODUCT SPECIFICATION

|        |                                                                |                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                      |
|--------|----------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 6.3.5  | 盐雾<br>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)℃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<br>48 hours spray, at temp (35±2)℃, NaCl mist concentration (5±1)%. After test wash parts and put it into room ambient for (1~2) hours<br><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。)<br>Appearance: no damage (no erosion on material exposed. and plating material, slight erosion on the cutting surface is acceptable)<br>接触电阻: 20mΩ Max.<br>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。<br>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。<br>No stress corrosion cracking.                                                                                                                                                                                                                                                            |
| 6.3.7  | 硫化氢气体测试(H <sub>2</sub> S gas test)                             | 连接器配合后,在温度(40±2)℃、湿度(80±5)%、H <sub>2</sub> S气体浓度为(3±1)ppm的环境中放置96小时<br>Mated connectors exposed to the condition of temperature (40±2)℃, humidity (80±5)%, H <sub>2</sub> S gas concentration of (3±1)ppm for 96 hours                                                                        | 外观:无损伤(参照6.1.1)<br>Appearance: no damage.(refer to 6.1.1)<br>接触电阻: 20mΩ Max.<br>Contact resistance: 20mΩ Max.                                                                                                                                                                                        |
| 6.3.8  | 可焊性<br>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)℃,时间(4~5)秒<br>Dip solder tails into the molten solder held at (245±5)℃ for (4~5) seconds                                                                                                                                                                        | 上锡率: ≥90%<br>Solder coverage: ≥90%                                                                                                                                                                                                                                                                   |
| 6.3.9  | 耐焊接热<br>Resistance to soldering heat                           | 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)℃;时间(5±1)秒后,在正常条件下恢复(1~2)小时<br>Resistance to wave soldering heat: Dip solder tails into the molten solder held at (260±5)℃ for (5±1) seconds, recovery time (1~2) hours                                                                                   | 外观:无损伤(参照6.1.1)<br>Appearance: no damage.(refer to 6.1.1)                                                                                                                                                                                                                                            |
|        |                                                                | 手工焊接:温度(350±10)℃,时间(1~2) seconds<br>Manual soldering: (350±10)℃ for (1~2) seconds                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                      |
|        |                                                                | 回流焊形式(适合SMT类产品):<br>按下图的条件测试耐焊接热。<br>Reflow type: The specimen shall be tested resistance, to soldering heat in the following conditions.                                                                                                                                                     |                                                                                                                                                                                                                                                                                                      |
| 6.3.10 | 灼热丝<br>Glow wire<br>(只针对GWT750℃产品<br>Only for GWT750℃ product) | 750℃灼热丝顶部接触试验样品<br>接触时间:(30±1)s<br>接近和离开速率:10mm/s~25mm/s<br>灼热丝进入或贯穿试验样品深度:(7±0.5)mm。<br>750℃ glow wire contacts with mated connector<br>Time: (30±1)s<br>Speed of closing to and leaving: 10mm/s~25mm/s<br>Depth that glow wire penetrates mated connector: (7±0.5)mm<br><b>GB/T 5169.10</b> | 1.试验样品燃烧时间不超过2s。<br>The time that mated connector burns should be not more than 2s.<br>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。<br>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. |

|                       |            |                    |        |                    |    |
|-----------------------|------------|--------------------|--------|--------------------|----|
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Recommended IR Reflow Temperature Profile:

1 Using Lead-Free Solder Paste



回流焊曲线图 Reflow soldering curve

|                       |            |                    |        |                    |    |
|-----------------------|------------|--------------------|--------|--------------------|----|
| 产品名称<br>Product name: | TJC3 系列连接器 | 编号<br>Document No. | PS4115 | 版本号<br>Version No. | V4 |
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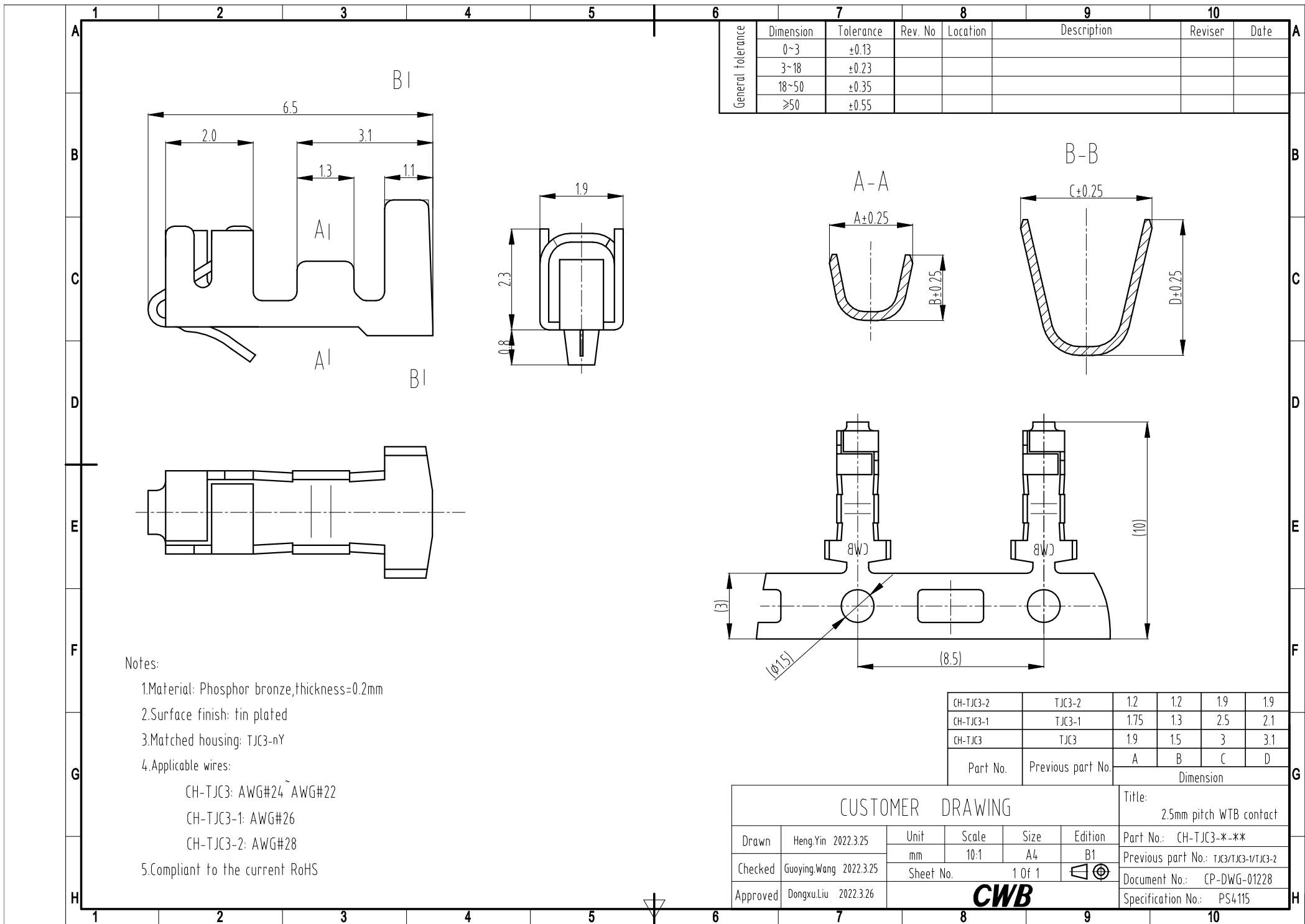
# 产品规格书

## PRODUCT SPECIFICATION

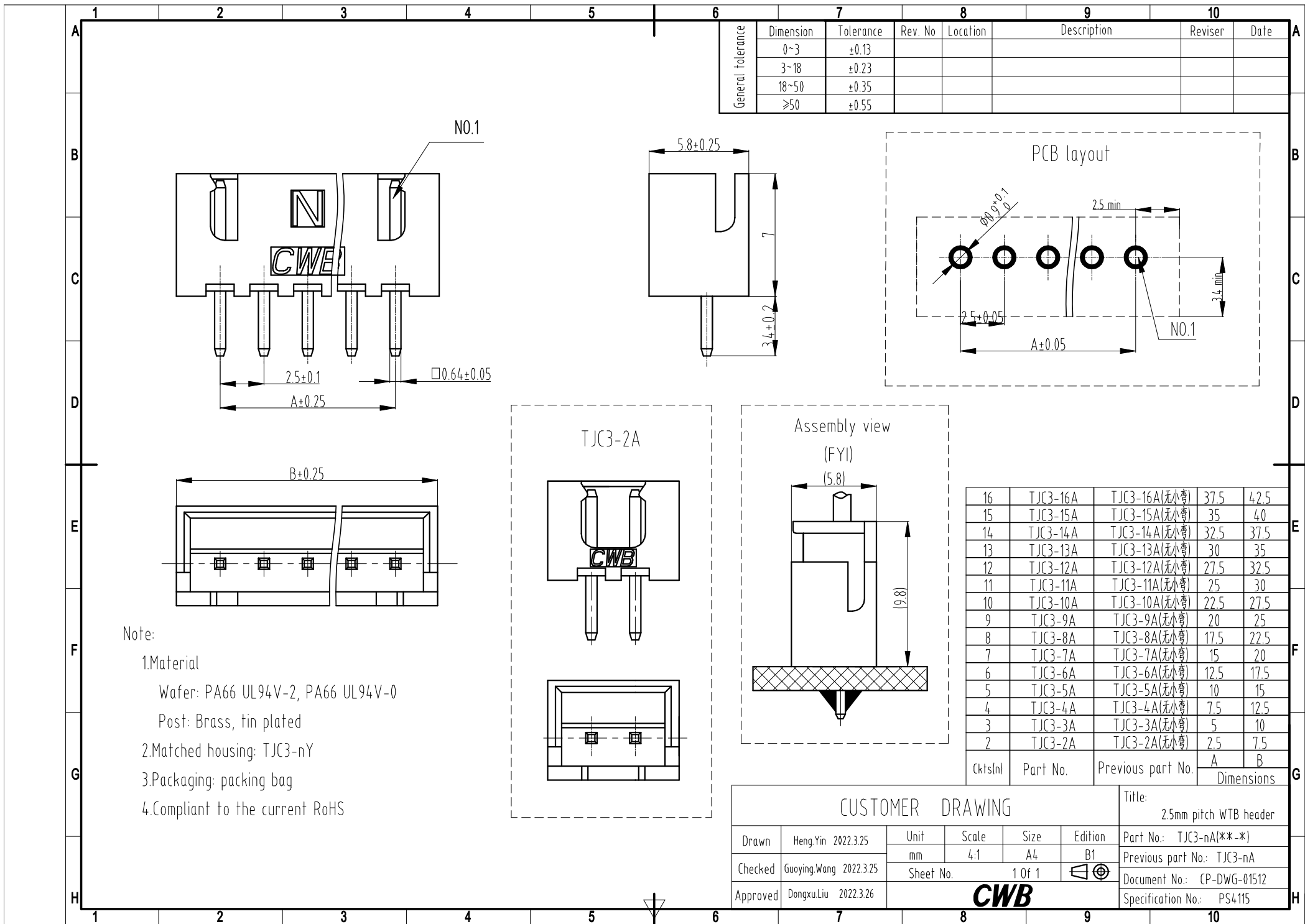
### 7. 测试分组 Test sequences (Samples: 5PCS)

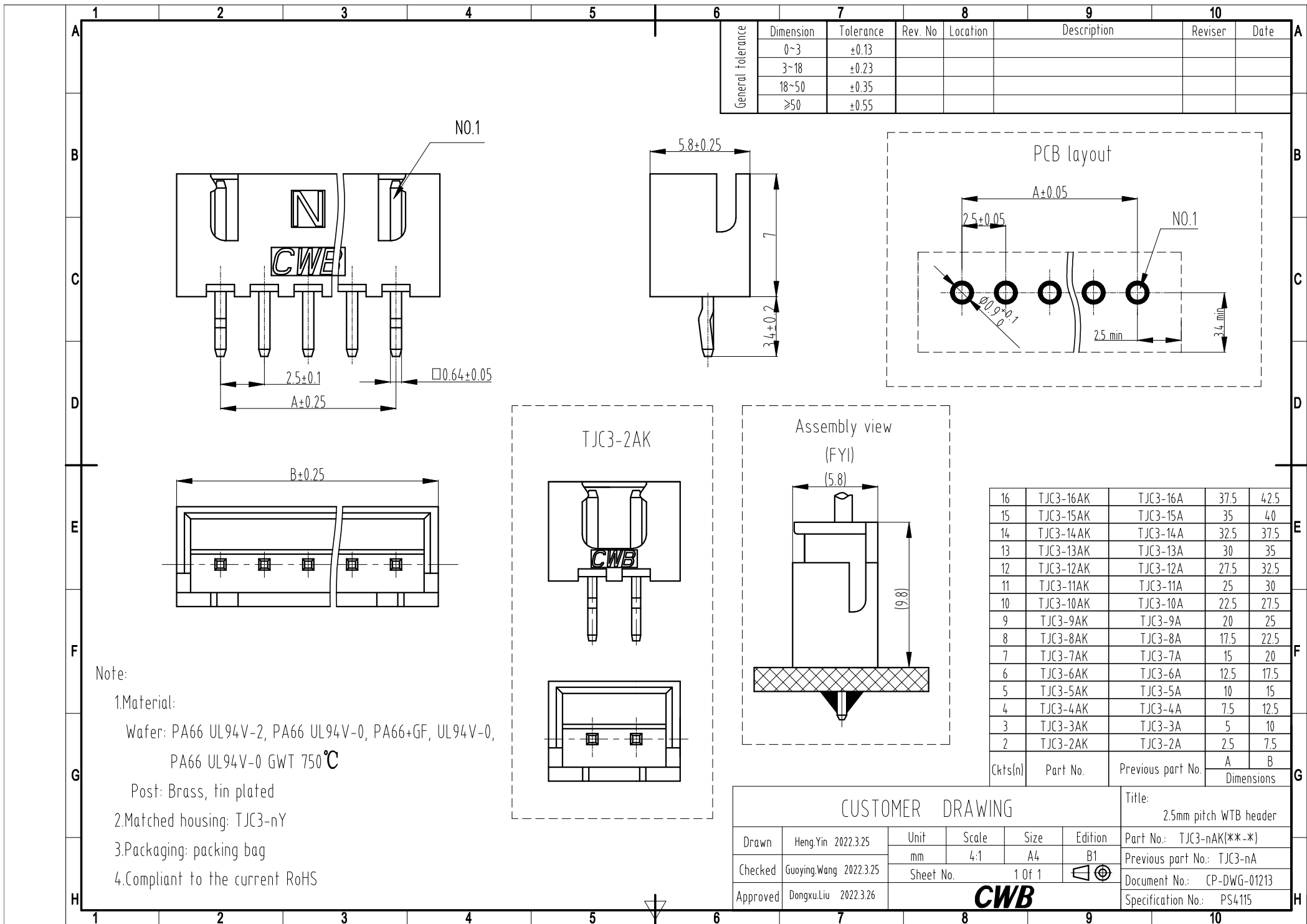
| 测试组<br>Group number                                                  | A | B | C | D | C | D   | E   | F   | G | H   | I   | J   | K   | L   | M   | N   | O   | P   | Q   |
|----------------------------------------------------------------------|---|---|---|---|---|-----|-----|-----|---|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|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

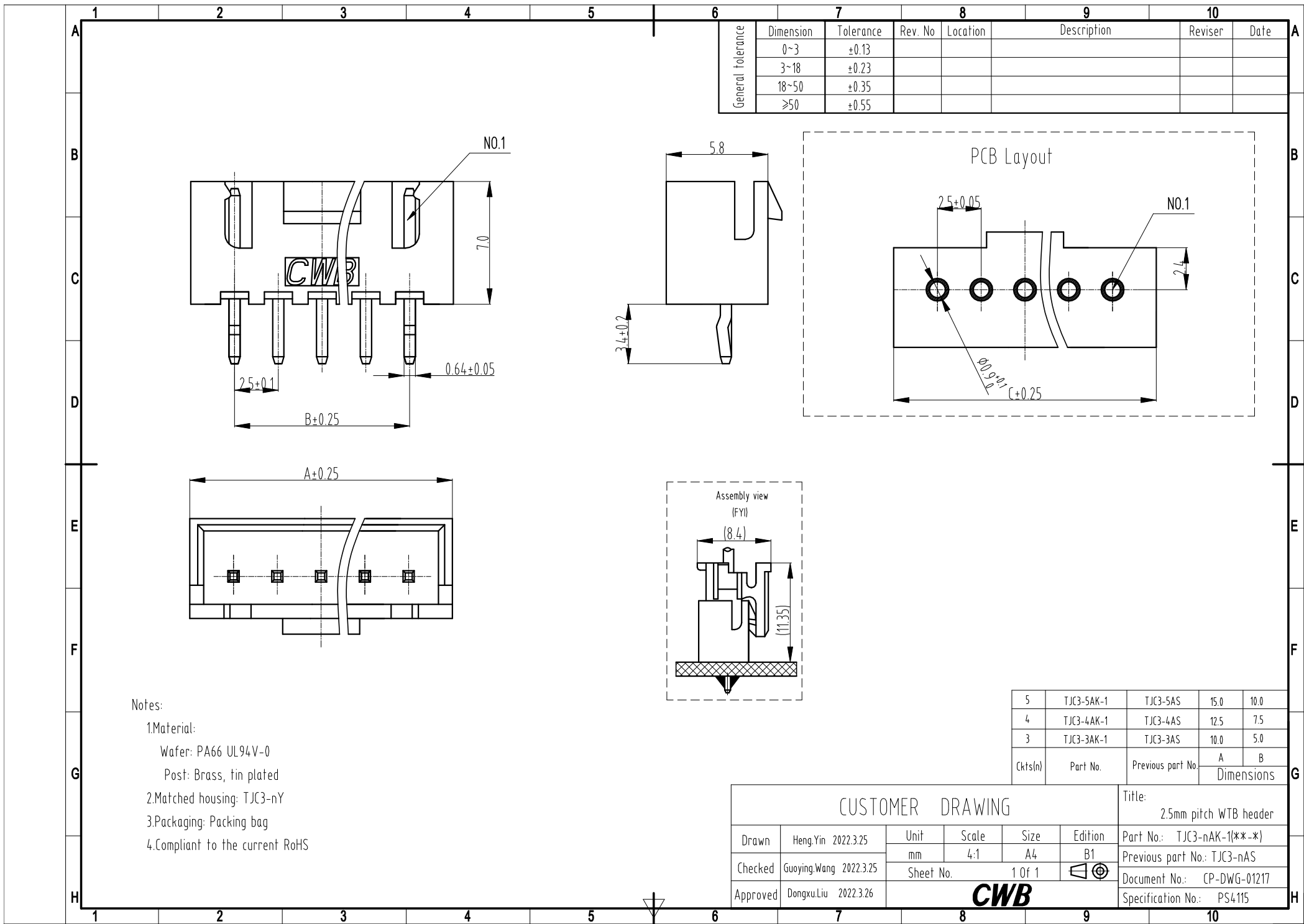
|                       |            |                    |        |                    |    |
|-----------------------|------------|--------------------|--------|--------------------|----|
| 产品名称<br>Product name: | TJC3 系列连接器 | 编号<br>Document No. | PS4115 | 版本号<br>Version No. | V4 |
|-----------------------|------------|--------------------|--------|--------------------|----|

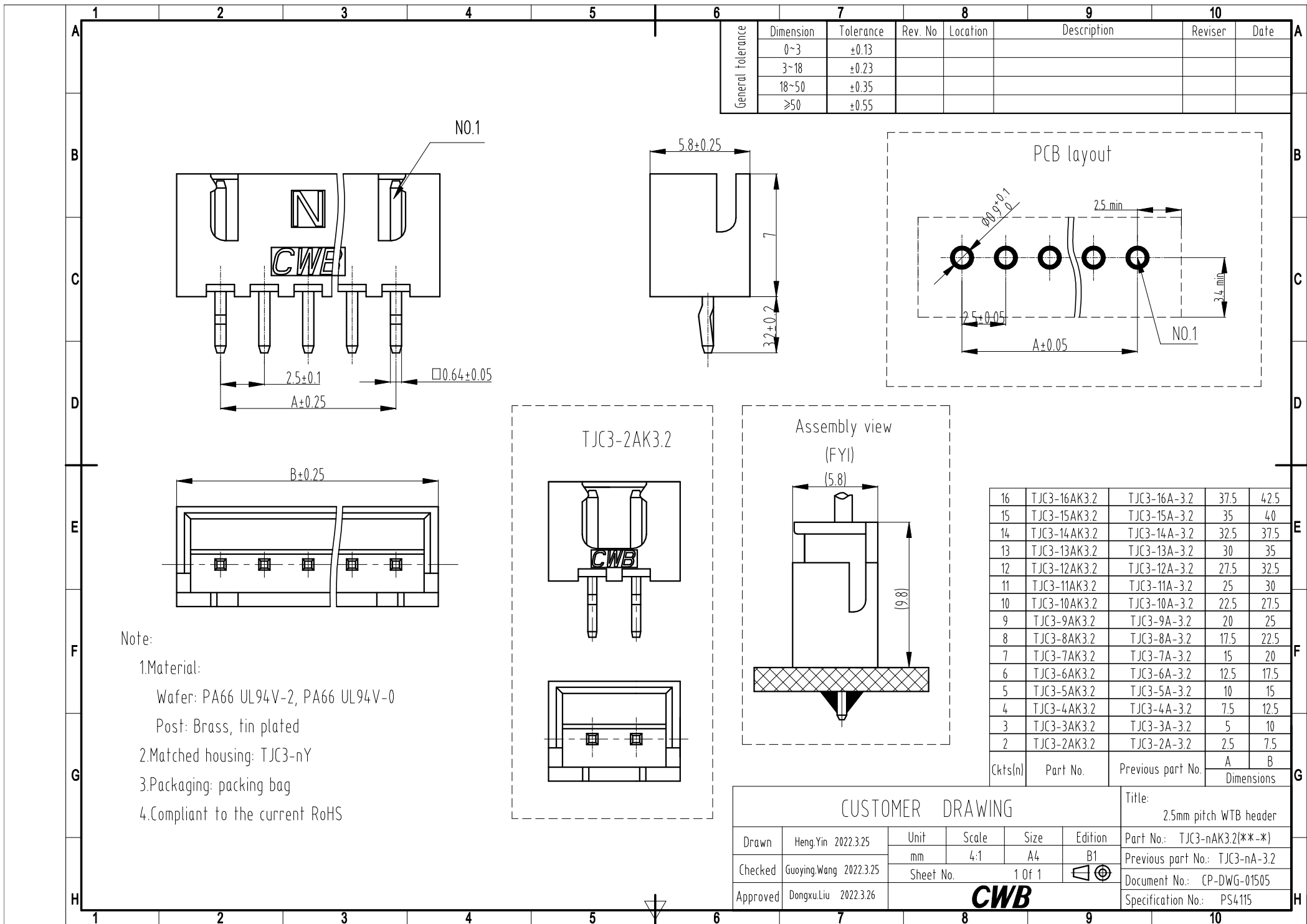


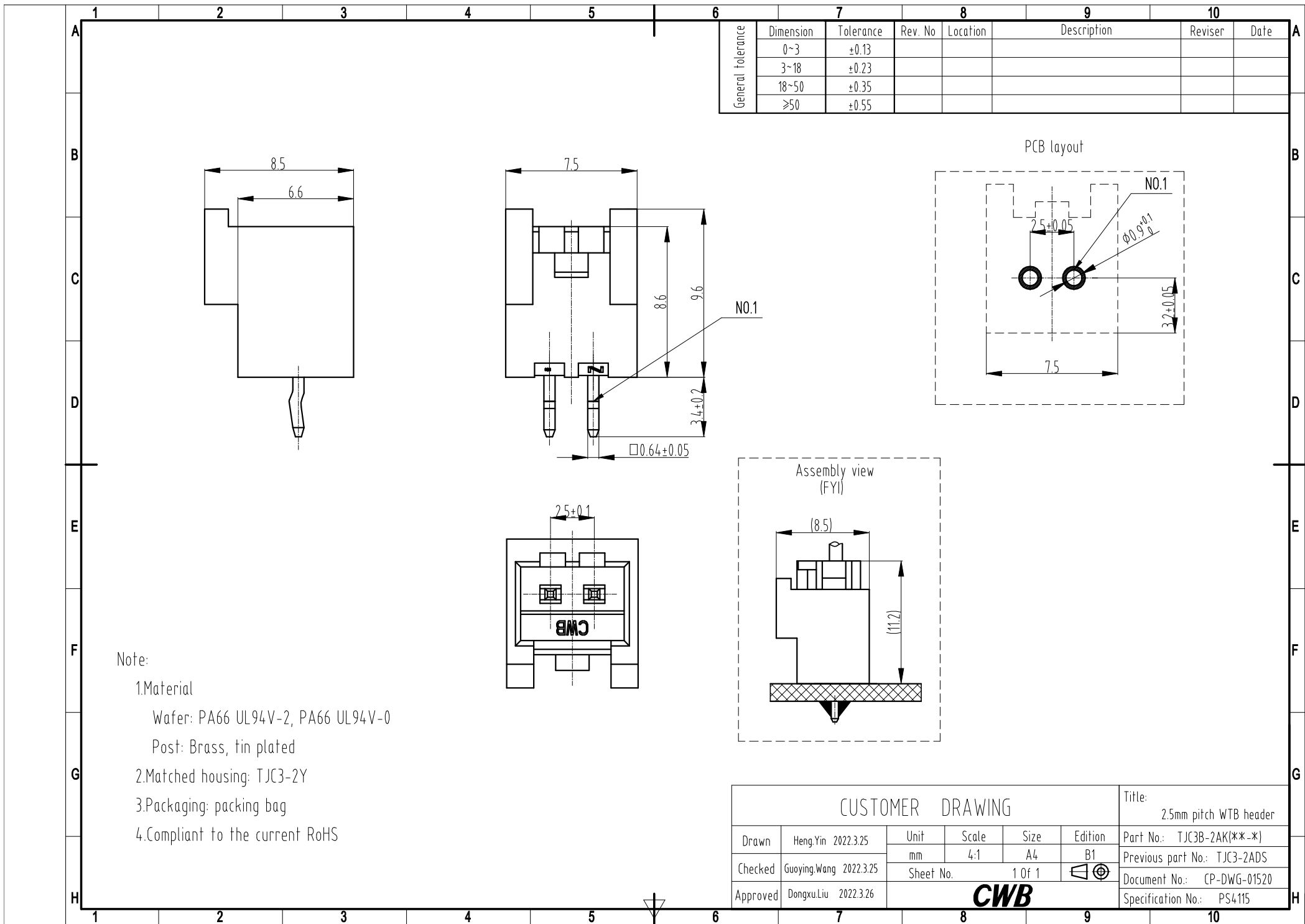


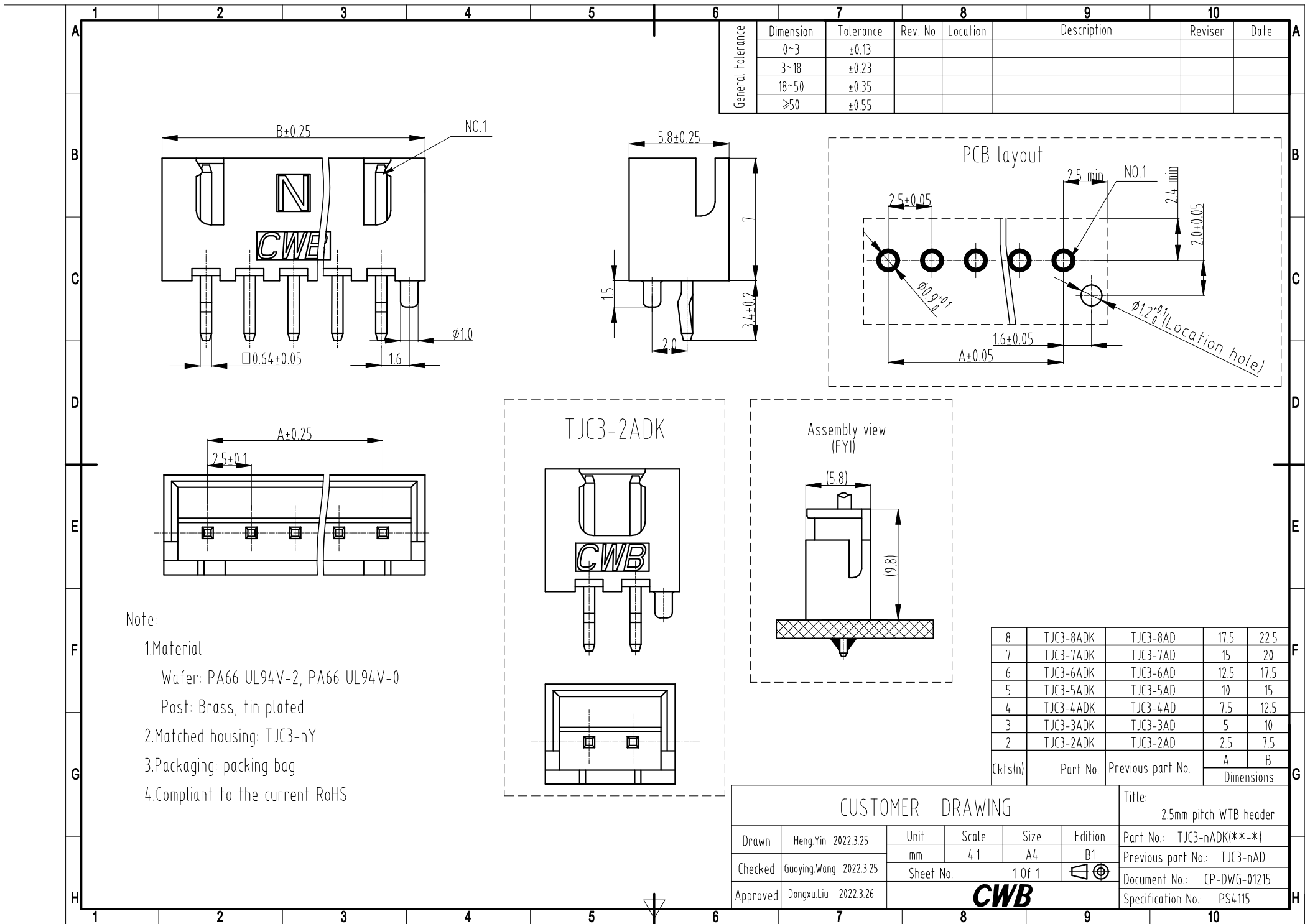


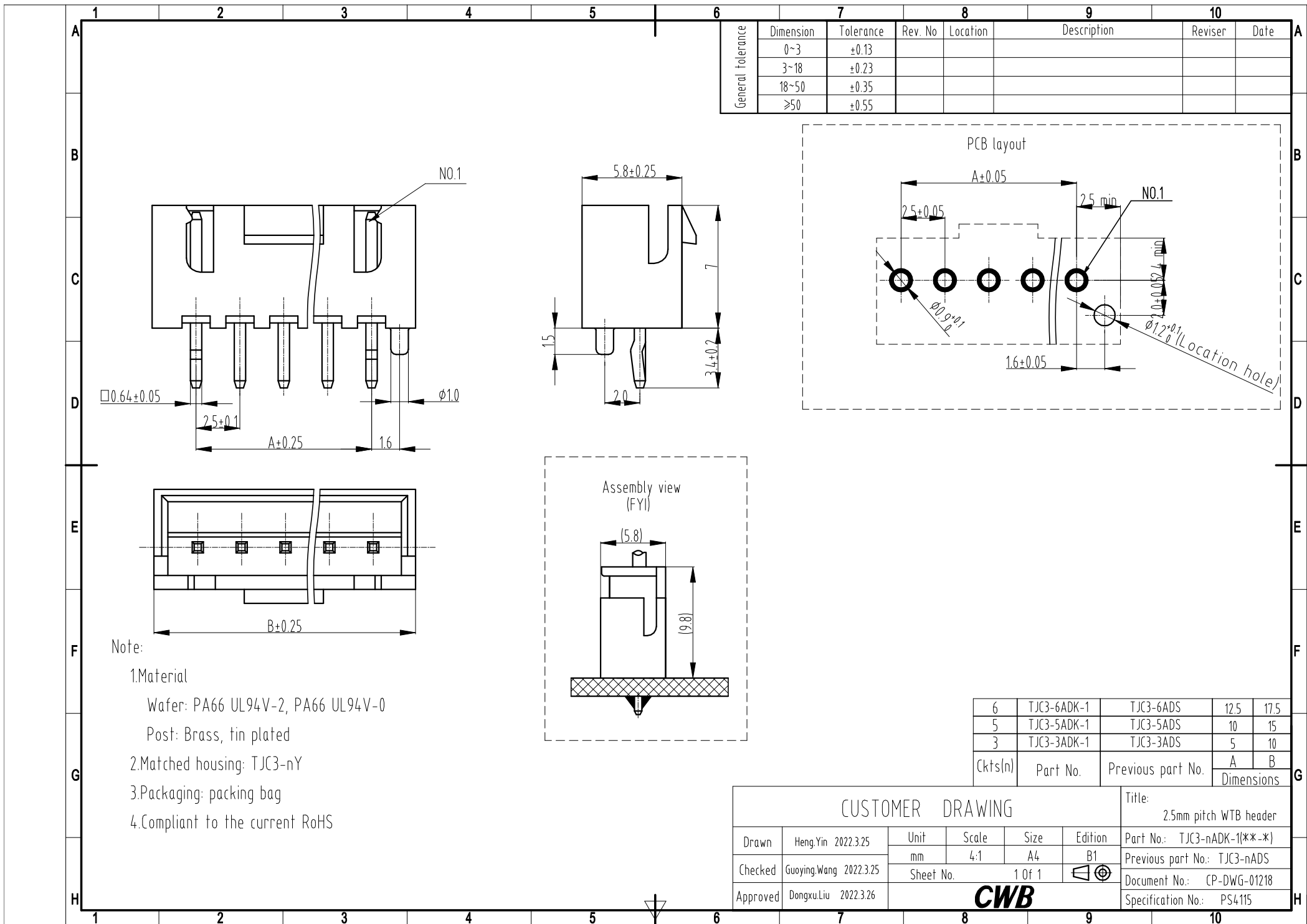


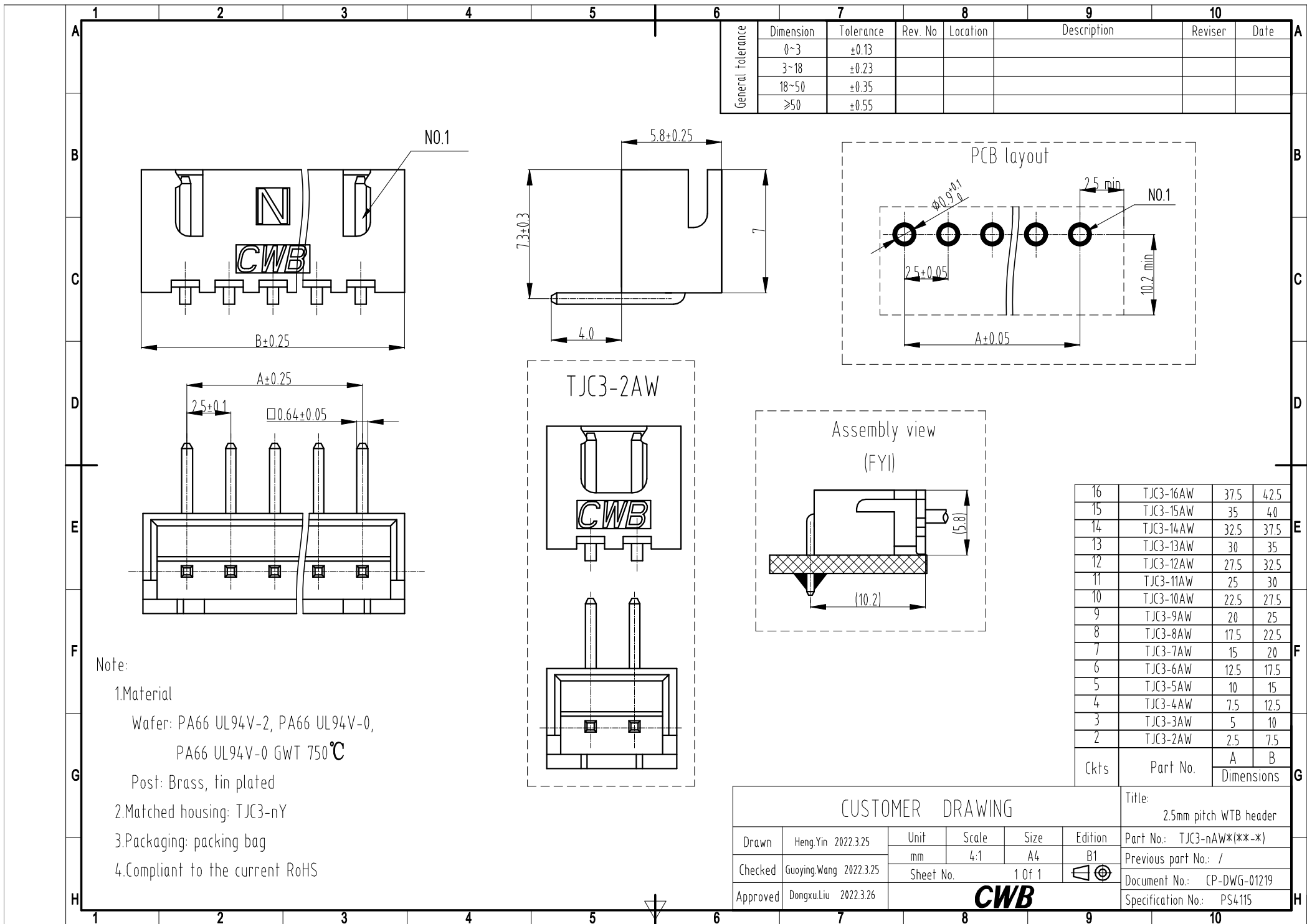


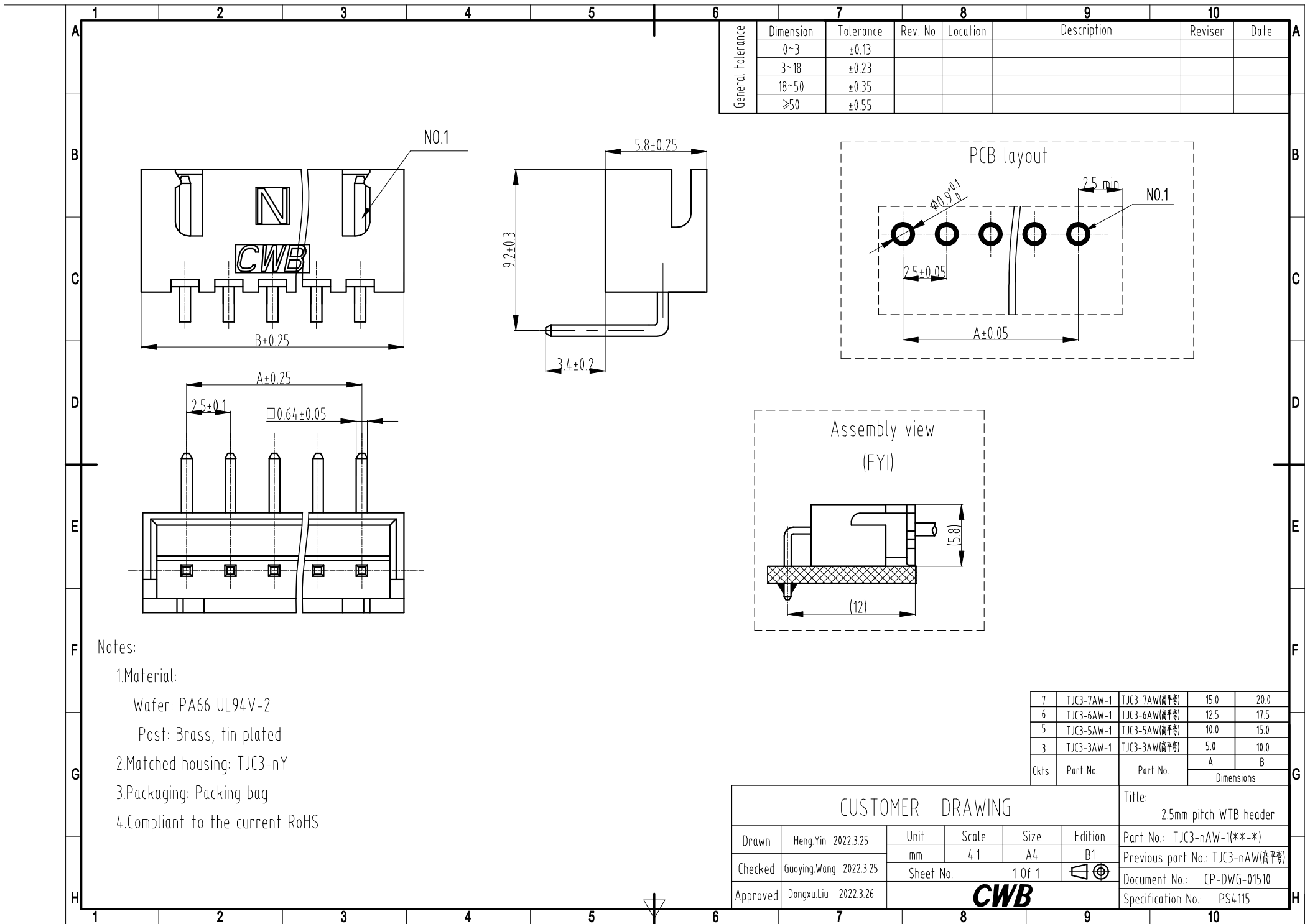


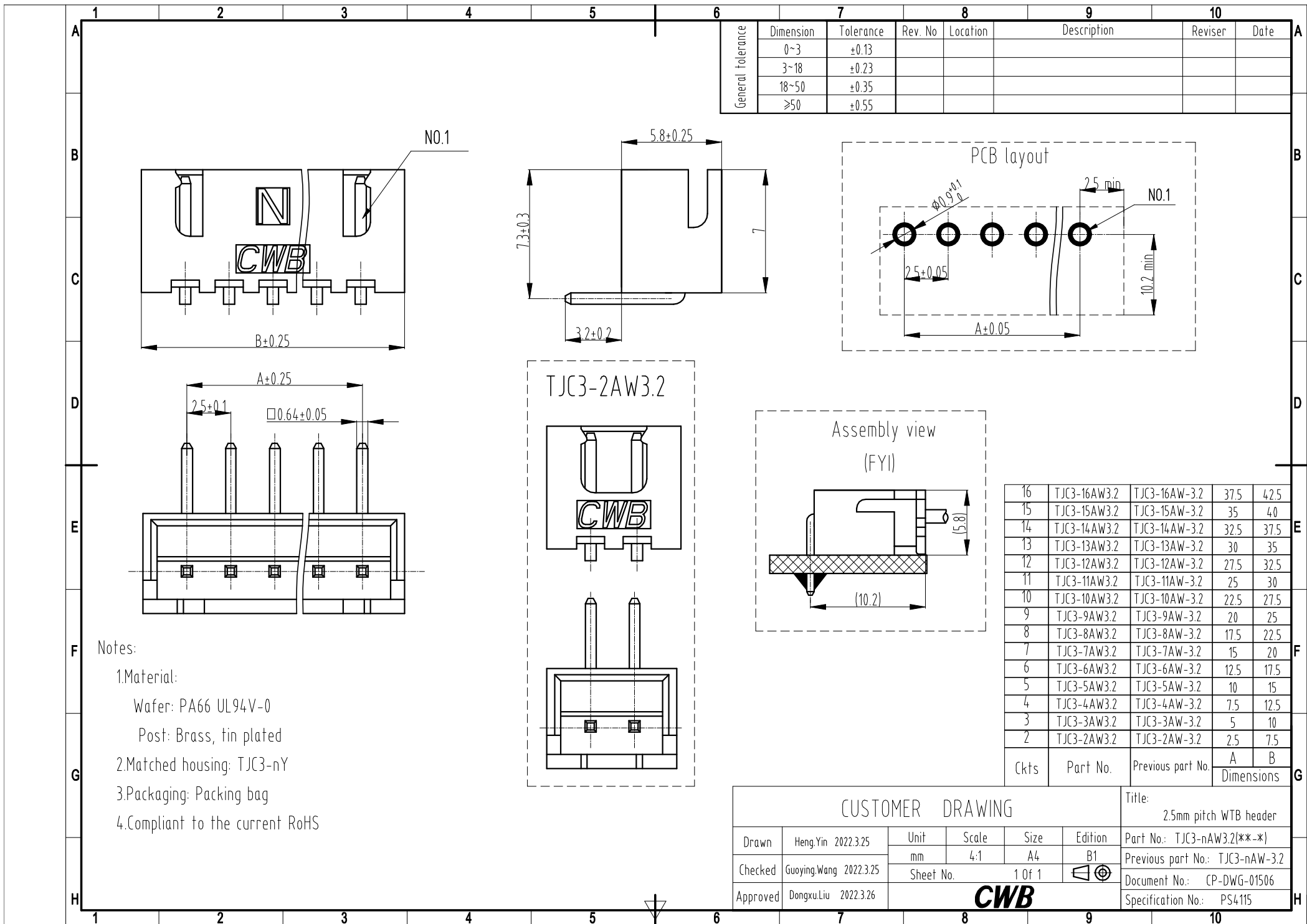


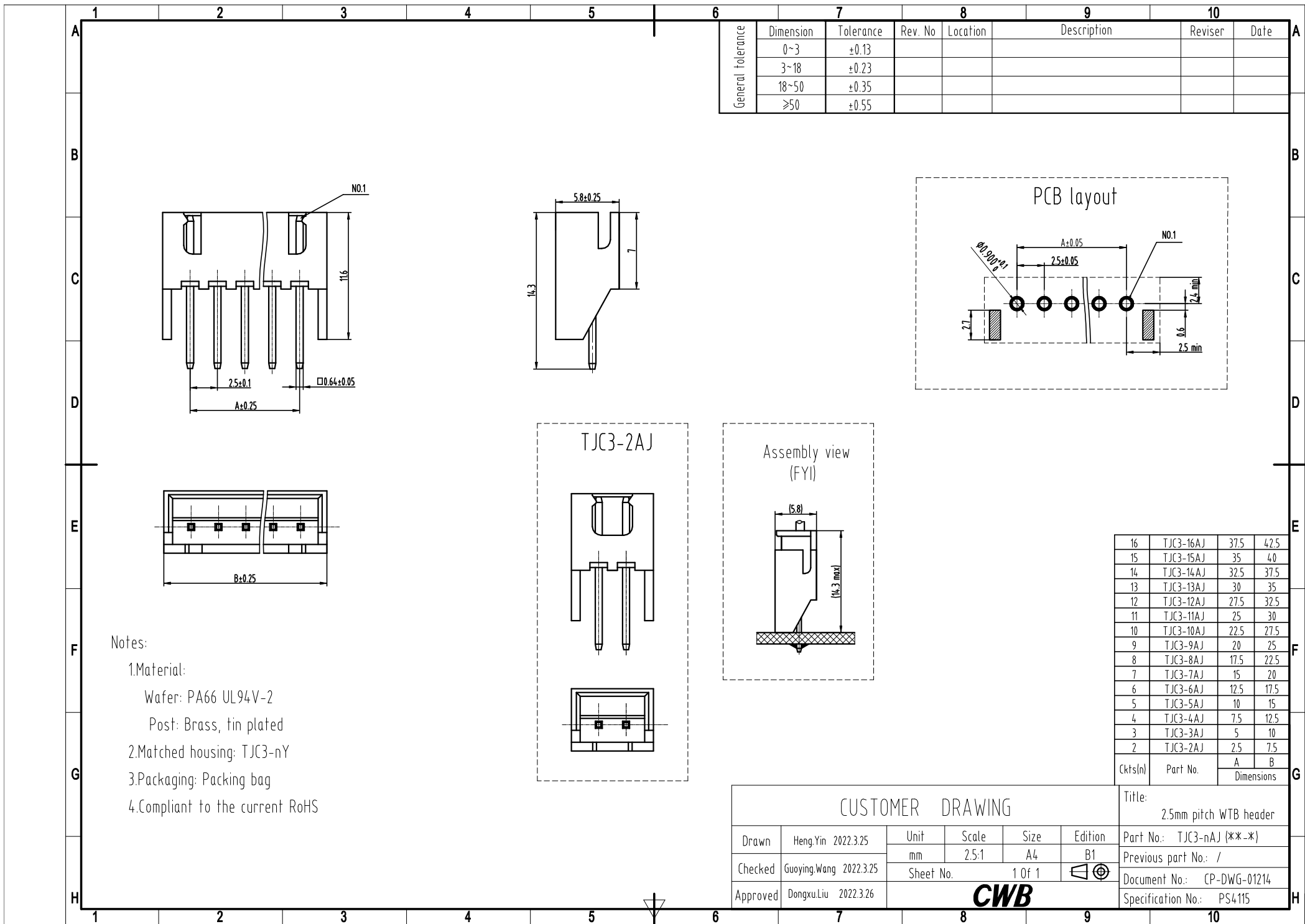


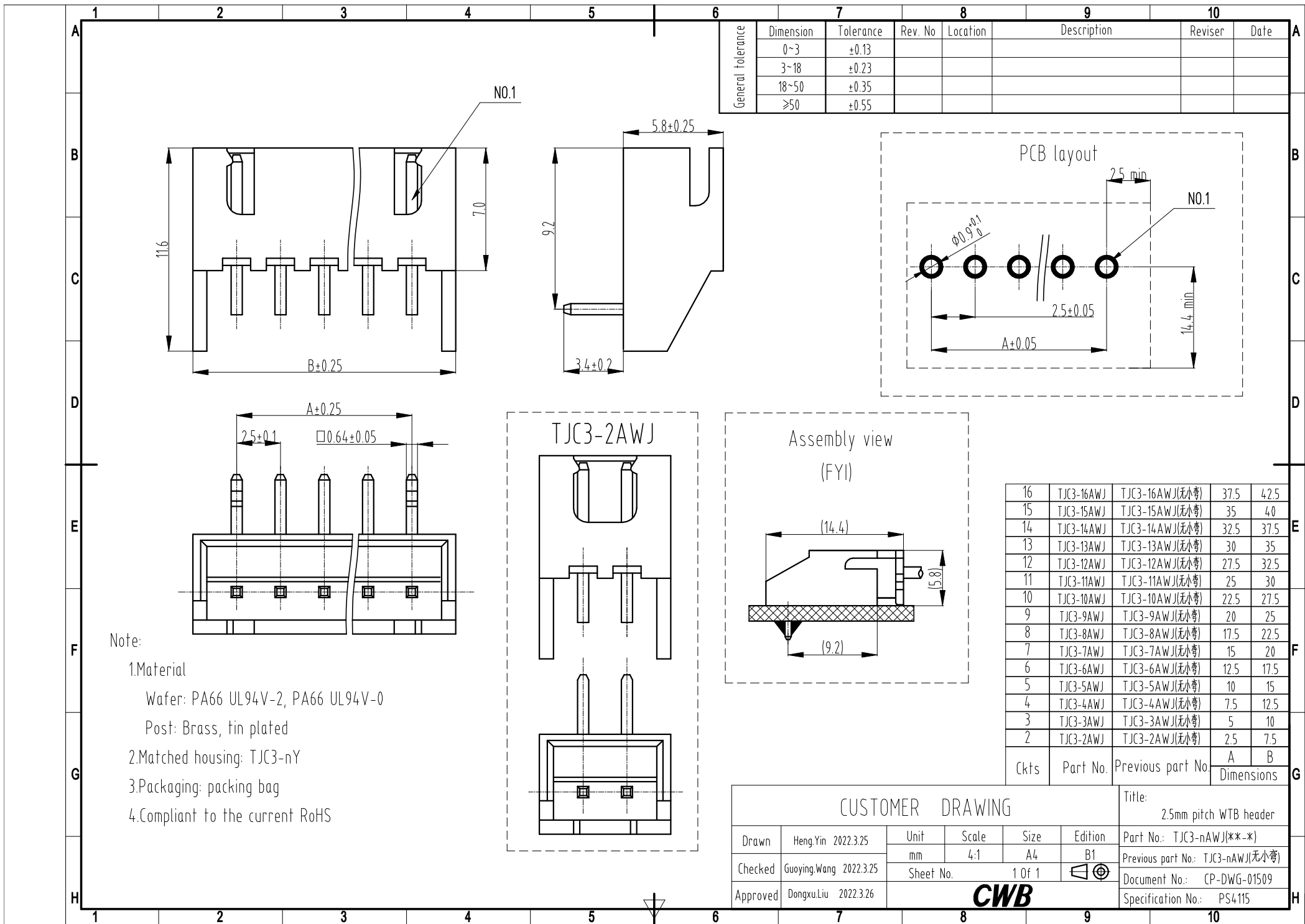


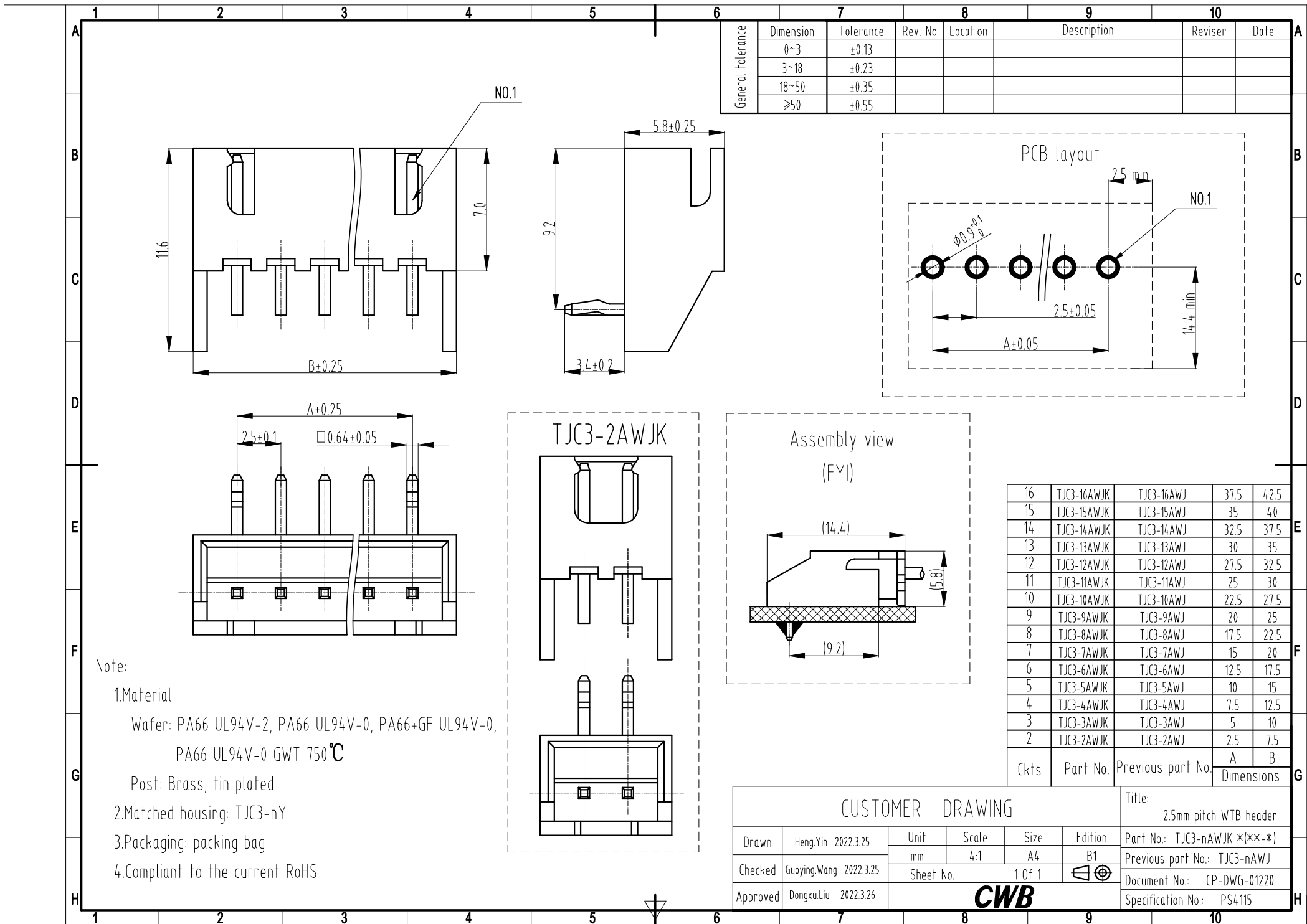


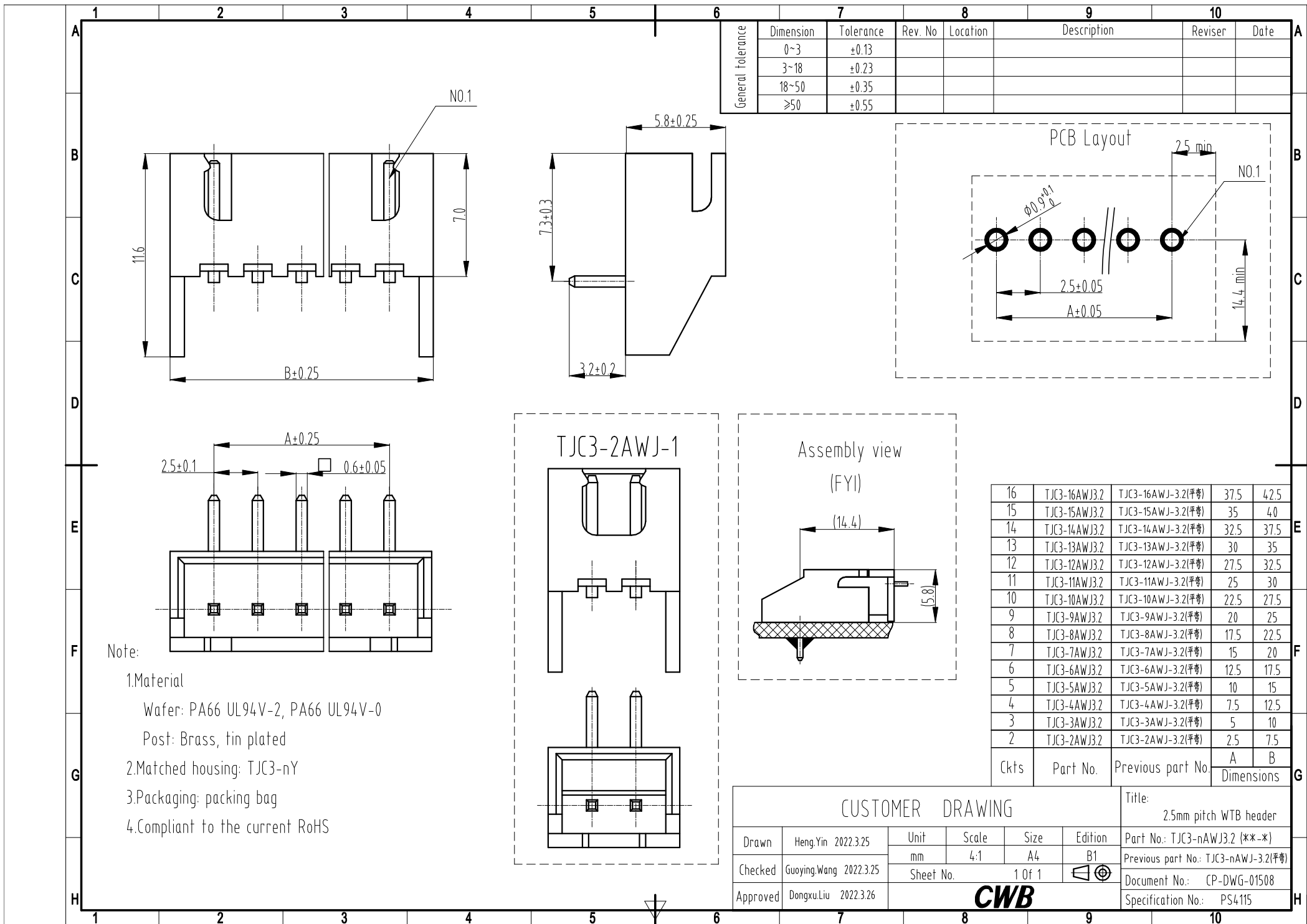




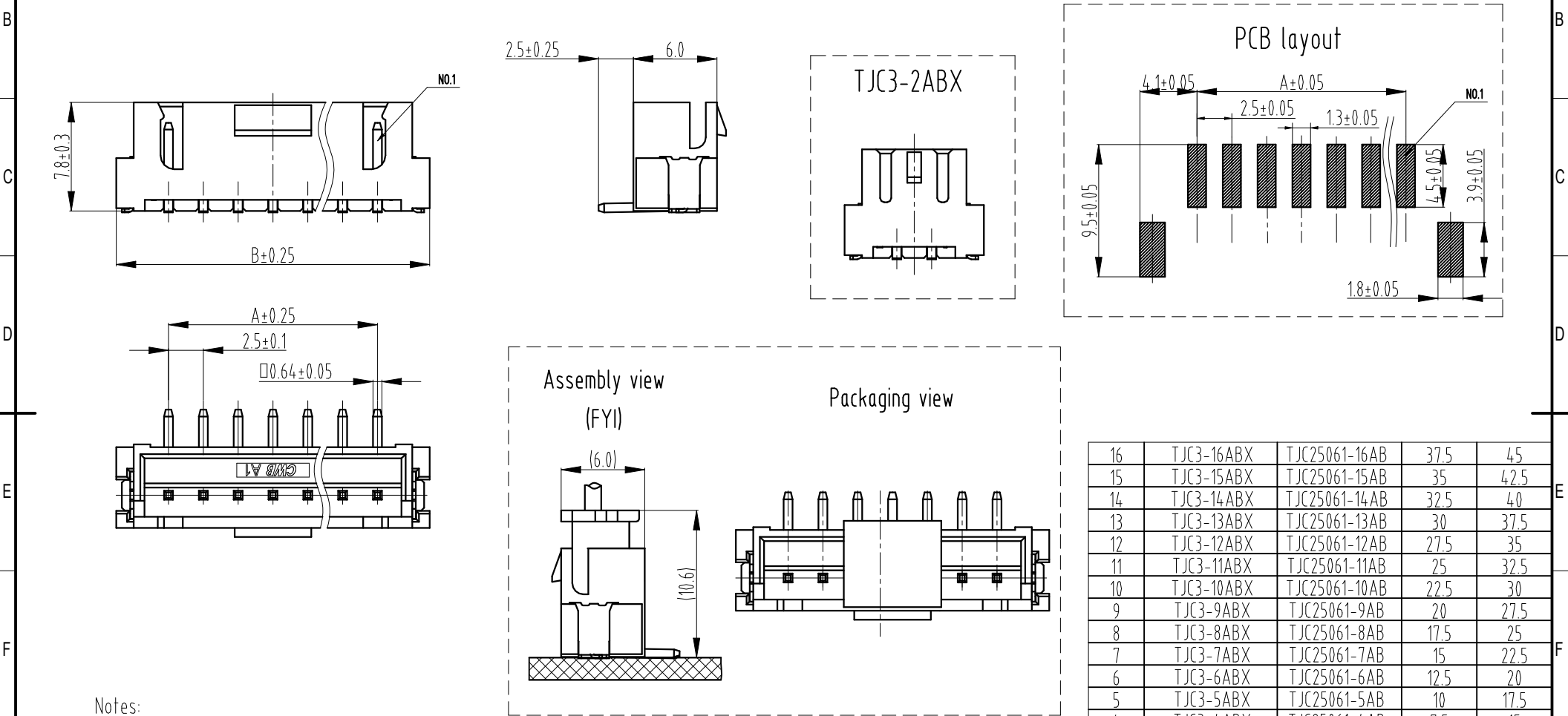








|                   |           |           |         |          |             |         |      |
|-------------------|-----------|-----------|---------|----------|-------------|---------|------|
| General tolerance | Dimension | Tolerance | Rev. No | Location | Description | Reviser | Date |
|     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



Notes:

1.Material:

Wafer: PA9T+GF UL94V-0/PA10T+GF UL94V-0

Post: Brass, tin plated

2.Matched housing: TJC3-2ABX:TJC25020-2Y

TJC3-(3~16)ABX:TJC3-nY/TJC25030-nY/TJC25020-nY

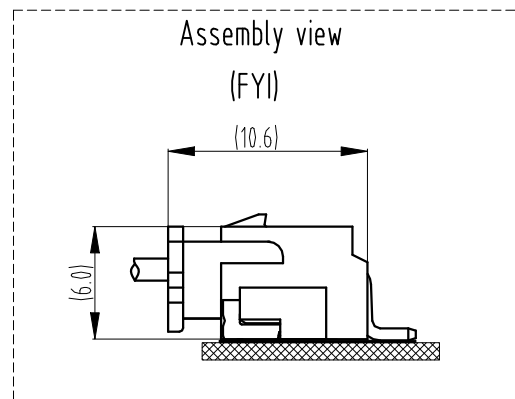
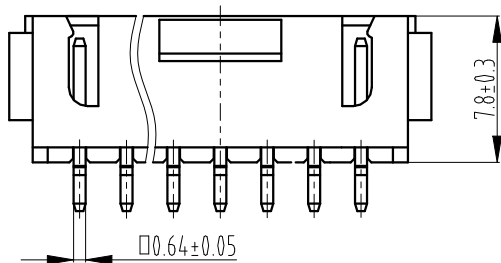
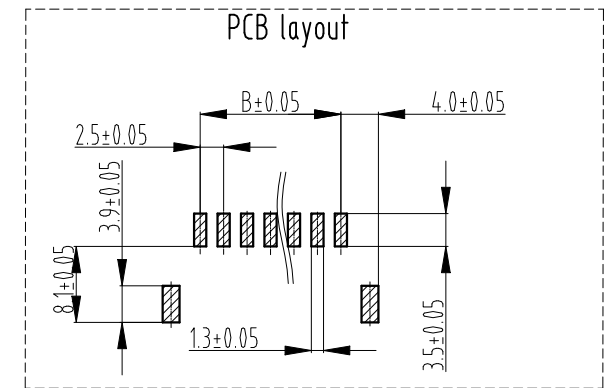
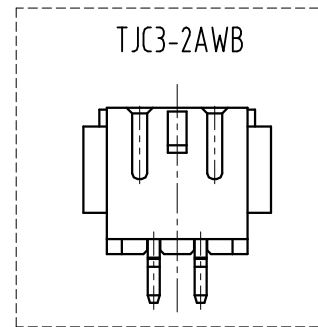
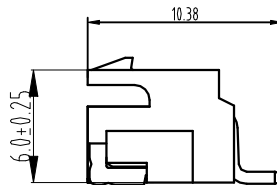
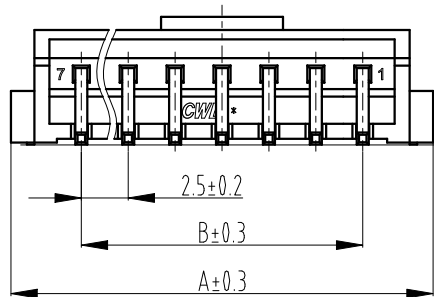
3.Packaging: Carrier tape

4.Compliant to the current RoHS

|         |            |                   |            |      |
|---------|------------|-------------------|------------|------|
| 16      | TJC3-16ABX | TJC25061-16AB     | 37.5       | 45   |
| 15      | TJC3-15ABX | TJC25061-15AB     | 35         | 42.5 |
| 14      | TJC3-14ABX | TJC25061-14AB     | 32.5       | 40   |
| 13      | TJC3-13ABX | TJC25061-13AB     | 30         | 37.5 |
| 12      | TJC3-12ABX | TJC25061-12AB     | 27.5       | 35   |
| 11      | TJC3-11ABX | TJC25061-11AB     | 25         | 32.5 |
| 10      | TJC3-10ABX | TJC25061-10AB     | 22.5       | 30   |
| 9       | TJC3-9ABX  | TJC25061-9AB      | 20         | 27.5 |
| 8       | TJC3-8ABX  | TJC25061-8AB      | 17.5       | 25   |
| 7       | TJC3-7ABX  | TJC25061-7AB      | 15         | 22.5 |
| 6       | TJC3-6ABX  | TJC25061-6AB      | 12.5       | 20   |
| 5       | TJC3-5ABX  | TJC25061-5AB      | 10         | 17.5 |
| 4       | TJC3-4ABX  | TJC25061-4AB      | 7.5        | 15   |
| 3       | TJC3-3ABX  | TJC25061-3AB      | 5          | 12.5 |
| 2       | TJC3-2ABX  | TJC25061-2AB      | 2.5        | 10   |
| Ckts(n) | Part No.   | Previous part No. | Dimensions |      |
|         |            |                   | A          | B    |

|                  |                        |                  |       |      |                                                                                       |                                  |  |
|------------------|------------------------|------------------|-------|------|---------------------------------------------------------------------------------------|----------------------------------|--|
| CUSTOMER DRAWING |                        |                  |       |      |                                                                                       | Title:<br>2.5mm pitch WTB header |  |
| Drawn            | Heng.Yin 2022.3.25     | Unit             | Scale | Size | Edition                                                                               | Part No.: TJC3-nABX(**-*)        |  |
|                  |                        | mm               | 4:1   | A4   | B1                                                                                    | Previous part No.: TJC25061-nAB  |  |
| Checked          | Guoying.Wang 2022.3.25 | Sheet No. 1 Of 1 |       |      |  | Document No.: CP-DWG-01360       |  |
| Approved         | Dongxu.Liu 2022.3.26   | <b>CWB</b>       |       |      |                                                                                       | Specification No.: PS4115        |  |

| 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     |         |          |             |         |      |



Notes:

1.Material:

Wafer: PA9T+GF UL94V-0/PA10T+GF UL94V-0

Post: Brass, tin plated

2.Matched housing: TJC3-2AWB:TJC25020-2Y

TJC3-(3~16)AWB:TJC3-nY/8TJC25030-nY/TJC25020-nY

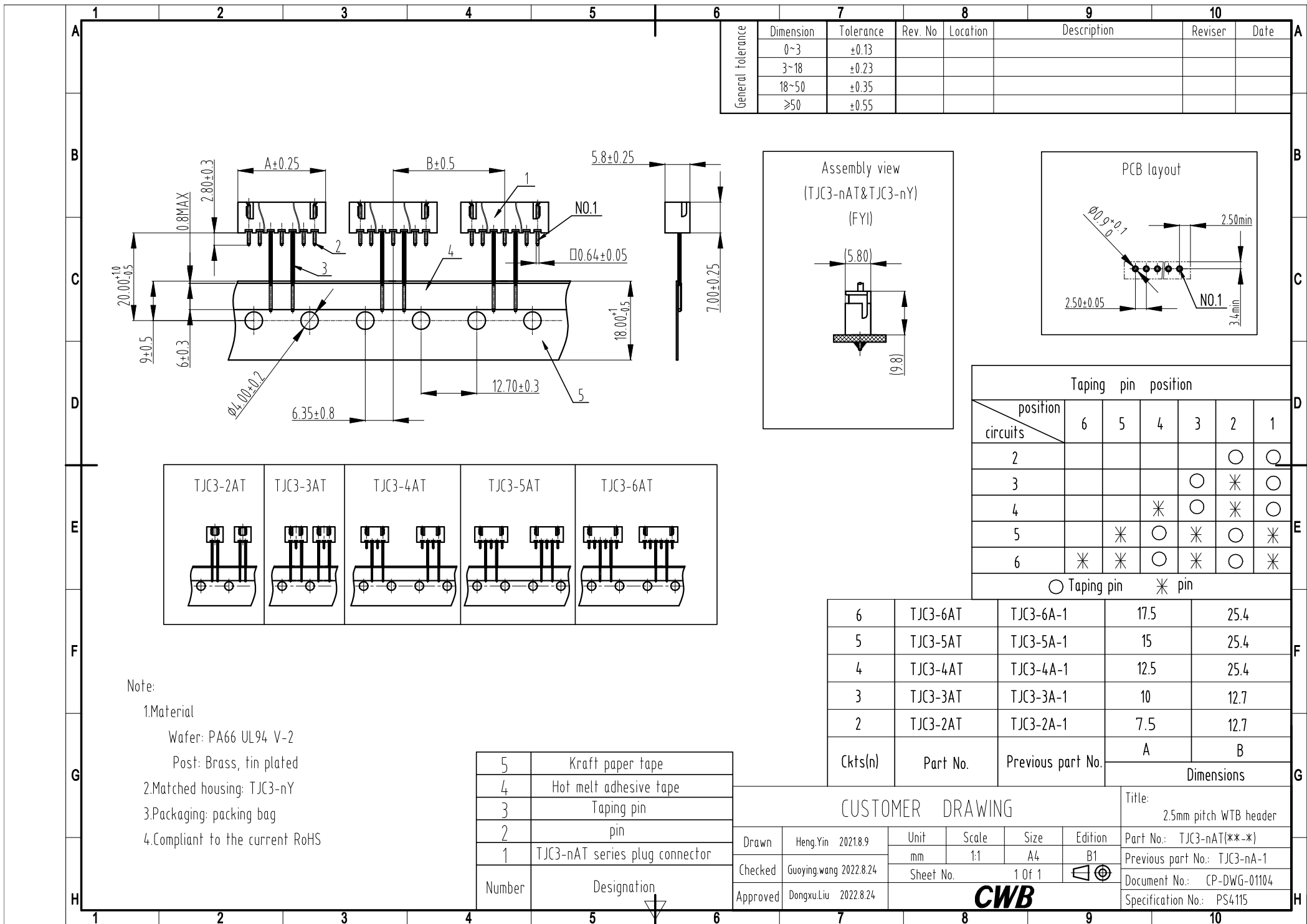
3.Packaging: Carrier tape

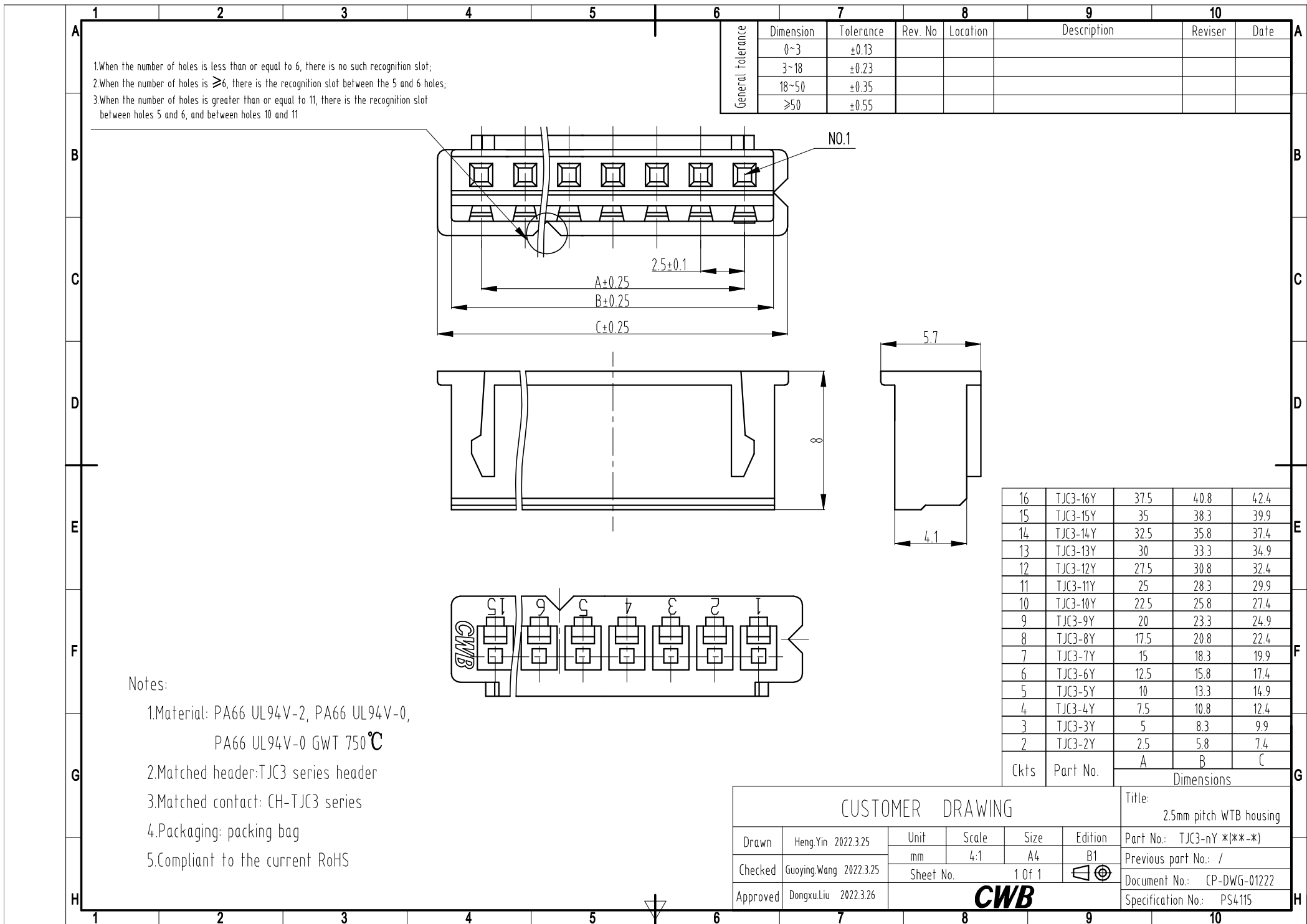
4.Compliant to the current RoHS

|      |            |                   |            |      |
|------|------------|-------------------|------------|------|
| 16   | TJC3-16AWB | TJC25061-16AWB    | 45         | 37.5 |
| 15   | TJC3-15AWB | TJC25061-15AWB    | 42.5       | 35   |
| 14   | TJC3-14AWB | TJC25061-14AWB    | 40         | 32.5 |
| 13   | TJC3-13AWB | TJC25061-13AWB    | 37.5       | 30   |
| 12   | TJC3-12AWB | TJC25061-12AWB    | 35         | 27.5 |
| 11   | TJC3-11AWB | TJC25061-11AWB    | 32.5       | 25   |
| 10   | TJC3-10AWB | TJC25061-10AWB    | 30         | 22.5 |
| 9    | TJC3-9AWB  | TJC25061-9AWB     | 27.5       | 20   |
| 8    | TJC3-8AWB  | TJC25061-8AWB     | 25         | 17.5 |
| 7    | TJC3-7AWB  | TJC25061-7AWB     | 22.5       | 15   |
| 6    | TJC3-6AWB  | TJC25061-6AWB     | 20         | 12.5 |
| 5    | TJC3-5AWB  | TJC25061-5AWB     | 17.5       | 10   |
| 4    | TJC3-4AWB  | TJC25061-4AWB     | 15         | 7.5  |
| 3    | TJC3-3AWB  | TJC25061-3AWB     | 12.5       | 5    |
| 2    | TJC3-2AWB  | TJC25061-2AWB     | 10         | 2.5  |
| Ckts | Part No.   | Previous part No. | A          | B    |
|      |            |                   | Dimensions |      |

| CUSTOMER DRAWING |                        |           |       |        |         | Title:                           |  |
|------------------|------------------------|-----------|-------|--------|---------|----------------------------------|--|
| Drawn            | Heng.Yin 2022.3.25     | Unit      | Scale | Size   | Edition | 2.5mm pitch WTB header           |  |
| Checked          | Guoying.Wang 2022.3.25 | mm        | 4:1   | A4     | B1      | Part No.: TJC3-nAWB(**-*)        |  |
| Approved         | Dongxu.Liu 2022.3.26   | Sheet No. |       | 1 Of 1 |         | Previous part No.: TJC25061-nAWB |  |
|                  |                        |           |       |        |         | Document No.: CP-DWG-01361       |  |
|                  |                        |           |       |        |         | Specification No.: PS4115        |  |

**CWB**



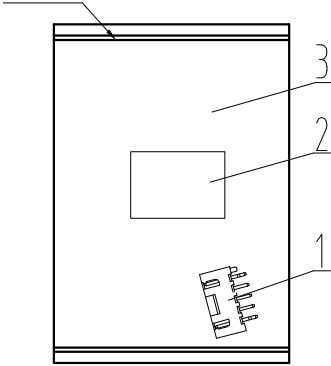




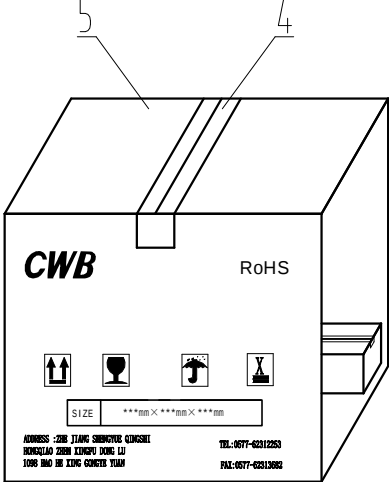
|   |   |   |   |   |   |                   |           |           |         |          |             |         |      |   |
|---|---|---|---|---|---|-------------------|-----------|-----------|---------|----------|-------------|---------|------|---|
|   | 1 | 2 | 3 | 4 | 5 | 6                 | 7         | 8         | 9       | 10       |             |         |      |   |
| A |   |   |   |   |   | General Tolerance | Dimension | Tolerance | Rev. No | Location | Description | Reviser | Date | A |
|   |   |   |   |   |   |                   | 0~3       | ±0.13     |         |          |             |         |      |   |
|   |   |   |   |   |   |                   | 3~18      | ±0.23     |         |          |             |         |      |   |
|   |   |   |   |   |   |                   | 18~50     | ±0.35     |         |          |             |         |      |   |
|   |   |   |   |   |   |                   | ≥50       | ±0.55     |         |          |             |         |      |   |
| B |   |   |   |   |   |                   |           |           |         |          |             |         |      | B |
| C |   |   |   |   |   |                   |           |           |         |          |             |         |      | C |
| D |   |   |   |   |   |                   |           |           |         |          |             |         |      | D |
| E |   |   |   |   |   |                   |           |           |         |          |             |         |      | E |
| F |   |   |   |   |   |                   |           |           |         |          |             |         |      | F |
| G |   |   |   |   |   |                   |           |           |         |          |             |         |      | G |
| H |   |   |   |   |   |                   |           |           |         |          |             |         |      | H |

Packing bag

Sealed



Packing box



**CWB** RoHS

SIZE \*\*\*mm×\*\*\*mm×\*\*\*mm

ADDRESS: ZHONG SHANG SHIYUO ELECTRONIC  
HONGKONG ZHONG SHANG SHIYUO ELECTRONIC LTD  
1000 HONG KONG CHINA TEL: 0077-62112263 FAX: 0077-62113062

|        |                    |
|--------|--------------------|
| 5      | Packing box        |
| 4      | Gummed tape        |
| 3      | Packing bag        |
| 2      | Certificate        |
| 1      | TJC3 series header |
| Number | Designation        |

|            |                  |              |                   |             |                   |          |                   |         |
|------------|------------------|--------------|-------------------|-------------|-------------------|----------|-------------------|---------|
| TJC3-16AK  | TJC3-16A         | TJC3-16AK3.2 | TJC3-16A-3.2      | TJC3-16A    | TJC3-16A(无小喇)     | 500      |                   |         |
| TJC3-15AK  | TJC3-15A         | TJC3-15AK3.2 | TJC3-15A-3.2      | TJC3-15A    | TJC3-15A(无小喇)     | 500      |                   |         |
| TJC3-14AK  | TJC3-14A         | TJC3-14AK3.2 | TJC3-14A-3.2      | TJC3-14A    | TJC3-14A(无小喇)     | 500      |                   |         |
| TJC3-13AK  | TJC3-13A         | TJC3-13AK3.2 | TJC3-13A-3.2      | TJC3-13A    | TJC3-13A(无小喇)     | 500      |                   |         |
| TJC3-12AK  | TJC3-12A         | TJC3-12AK3.2 | TJC3-12A-3.2      | TJC3-12A    | TJC3-12A(无小喇)     | 500      |                   |         |
| TJC3-11AK  | TJC3-11A         | TJC3-11AK3.2 | TJC3-11A-3.2      | TJC3-11A    | TJC3-11A(无小喇)     | 500      |                   |         |
| TJC3-10AK  | TJC3-10A         | TJC3-10AK3.2 | TJC3-10A-3.2      | TJC3-10A    | TJC3-10A(无小喇)     | 1000     |                   |         |
| TJC3-9AK   | TJC3-9A          | TJC3-9AK3.2  | TJC3-9A-3.2       | TJC3-9A     | TJC3-9A(无小喇)      | 1000     |                   |         |
| TJC3-8AK   | TJC3-8A          | TJC3-8AK3.2  | TJC3-8A-3.2       | TJC3-8A     | TJC3-8A(无小喇)      | 1000     |                   |         |
| TJC3-7AK   | TJC3-7A          | TJC3-7AK3.2  | TJC3-7A-3.2       | TJC3-7A     | TJC3-7A(无小喇)      | 1000     |                   |         |
| TJC3-6AK   | TJC3-6A          | TJC3-6AK3.2  | TJC3-6A-3.2       | TJC3-6A     | TJC3-6A(无小喇)      | 1000     |                   |         |
| TJC3-5AK-1 | TJC3-5AS         | TJC3-5AK     | TJC3-5A           | TJC3-5AK3.2 | TJC3-5A-3.2       | TJC3-5A  | TJC3-5A(无小喇)      | 1000    |
| TJC3-4AK-1 | TJC3-4AS         | TJC3-4AK     | TJC3-4A           | TJC3-4AK3.2 | TJC3-4A-3.2       | TJC3-4A  | TJC3-4A(无小喇)      | 1000    |
| TJC3-3AK-1 | TJC3-3AS         | TJC3-3AK     | TJC3-3A           | TJC3-3AK3.2 | TJC3-3A-3.2       | TJC3-3A  | TJC3-3A(无小喇)      | 1000    |
| TJC3B-2AK  | TJC3-2ADS        | TJC3-2AK     | TJC3-2A           | TJC3-2AK3.2 | TJC3-2A-3.2       | TJC3-2A  | TJC3-2A(无小喇)      | 1000    |
| Part No.   | Previous part No | Part No.     | Previous part No. | Part No.    | Previous part No. | Part No. | Previous part No. | Pcs/bag |

CUSTOMER DRAWING

Drawn Heng.Yin 2022.3.25

Checked Guoying.Wang 2022.3.25

Approved Dongxu.Liu 2022.3.26

Unit mm

Scale /

Size A4

Edition B1

Sheet No. 1 of 1

**CWB**

Title: Packaging specification

Part No.: TJC3-nA\*\*(\*\*-\*)

Previous part No.: TJC3-nA

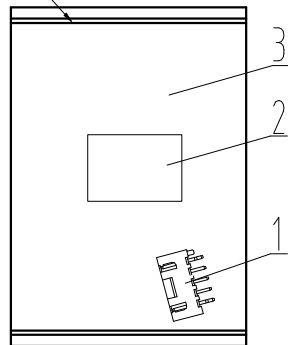
Document No.: BZ-DWG-00687

Specification No.: PS4115

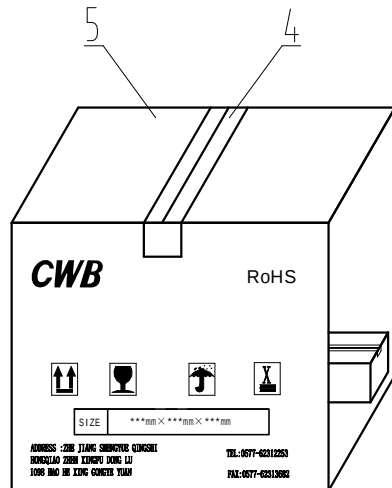
| 6                 |           | 7         |         | 8        |             | 9 |  | 10      |      |
|-------------------|-----------|-----------|---------|----------|-------------|---|--|---------|------|
| General Tolerance | Dimension | Tolerance | Rev. No | Location | Description |   |  | Reviser | Date |
|                   | 0~3       | ±0.13     |         |          |             |   |  |         |      |
|                   | 3~18      | ±0.23     |         |          |             |   |  |         |      |
|                   | 18~50     | ±0.35     |         |          |             |   |  |         |      |
|                   | ≥50       | ±0.55     |         |          |             |   |  |         |      |

Packing bag

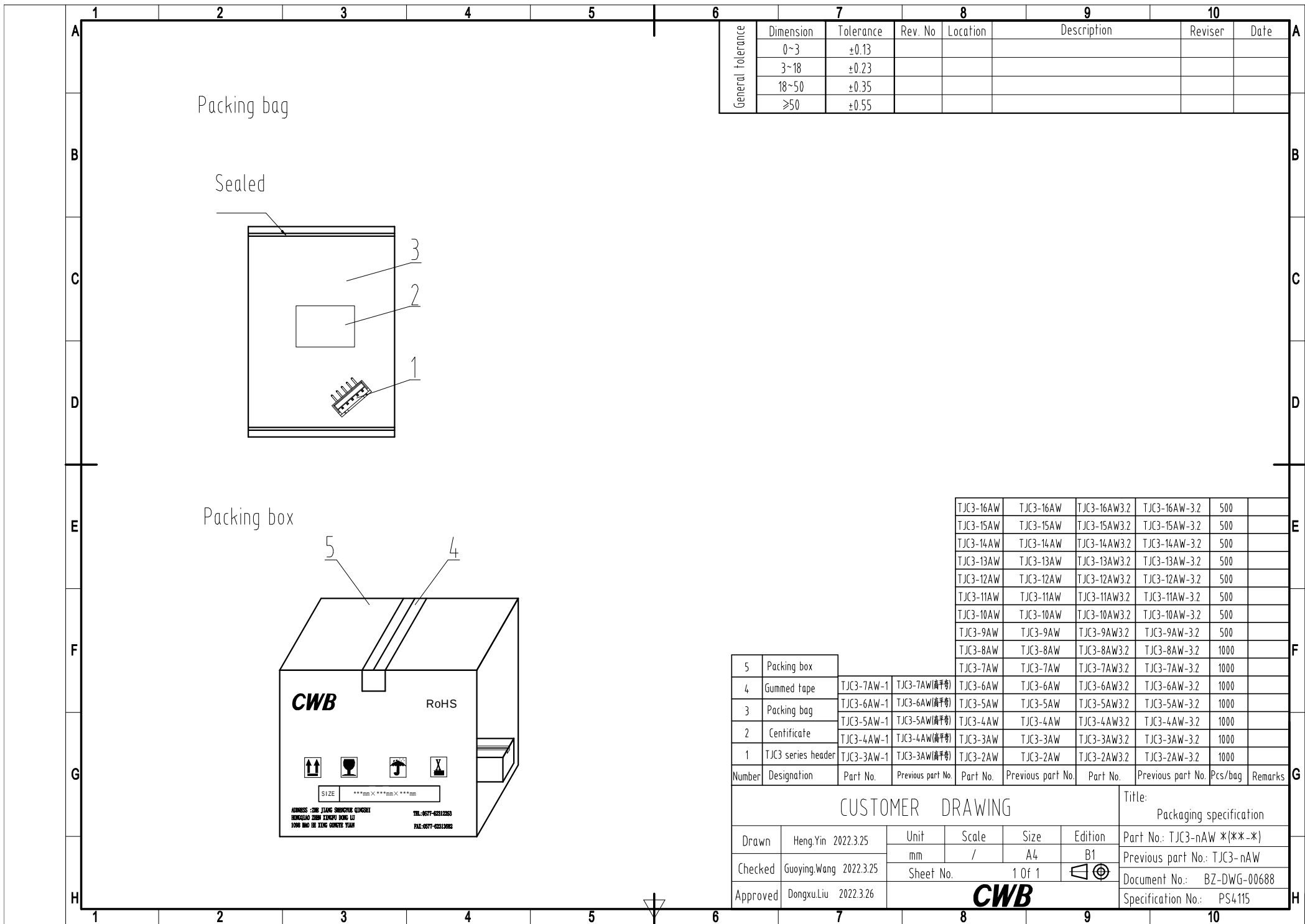
Sealed

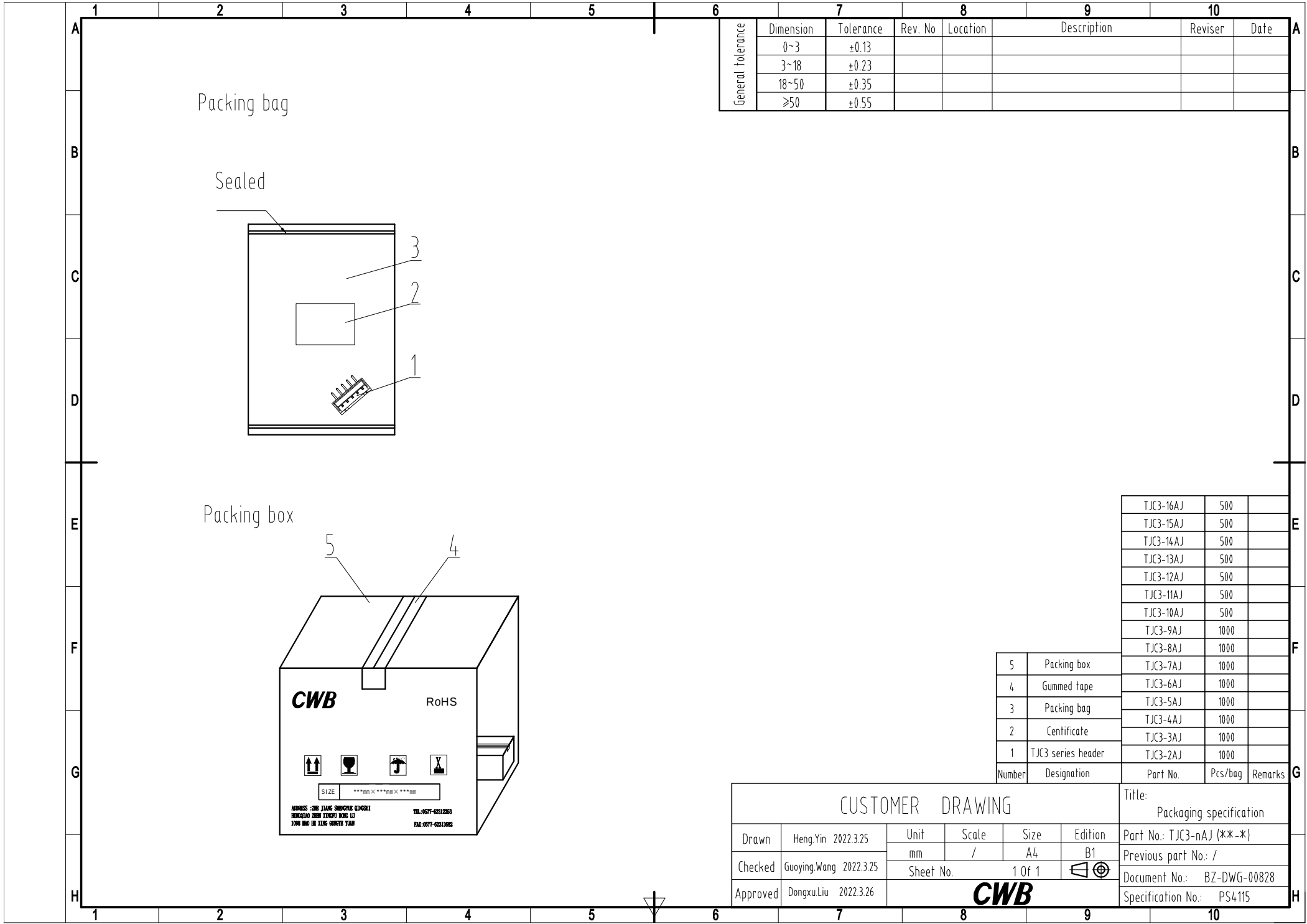


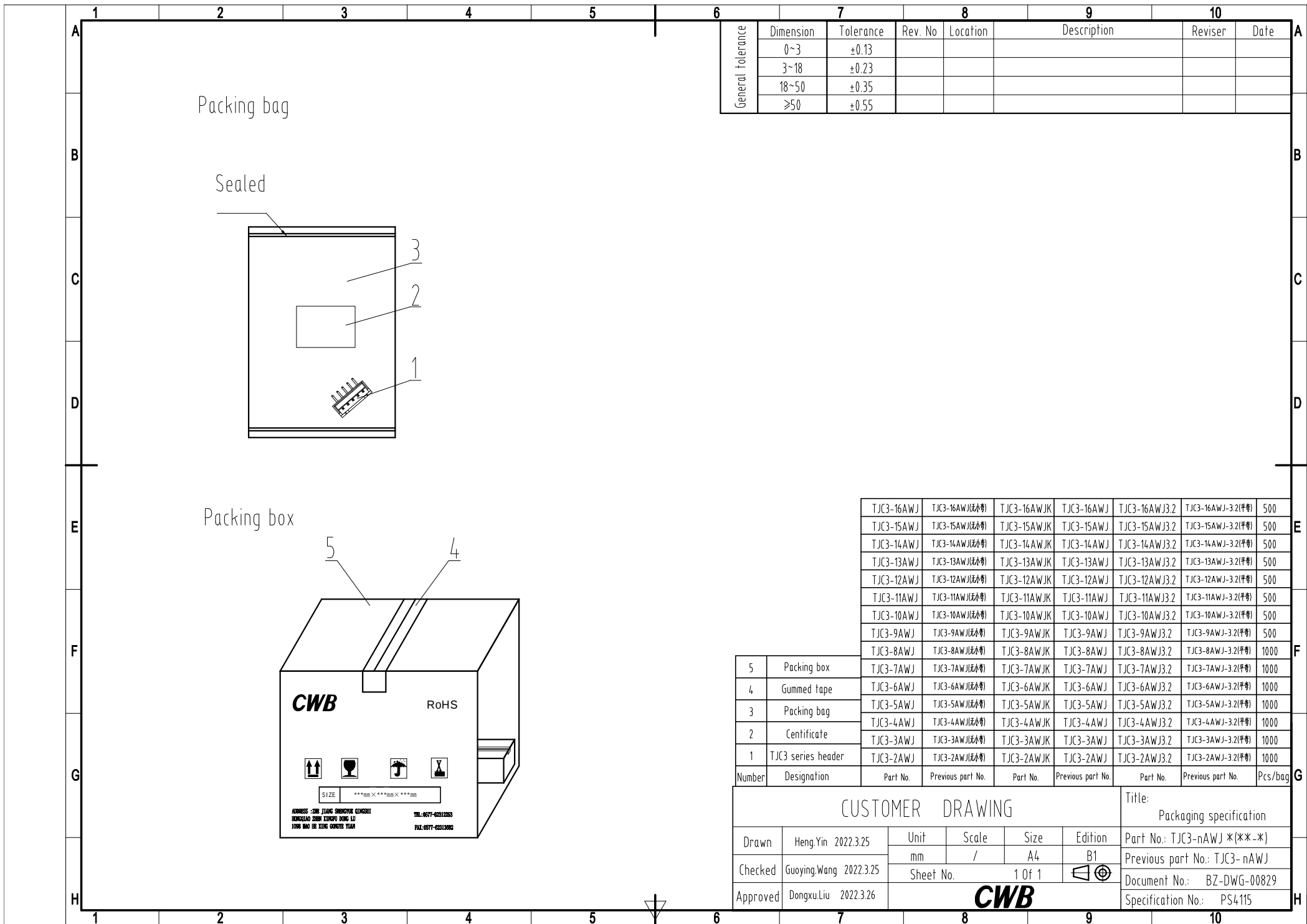
Packing box

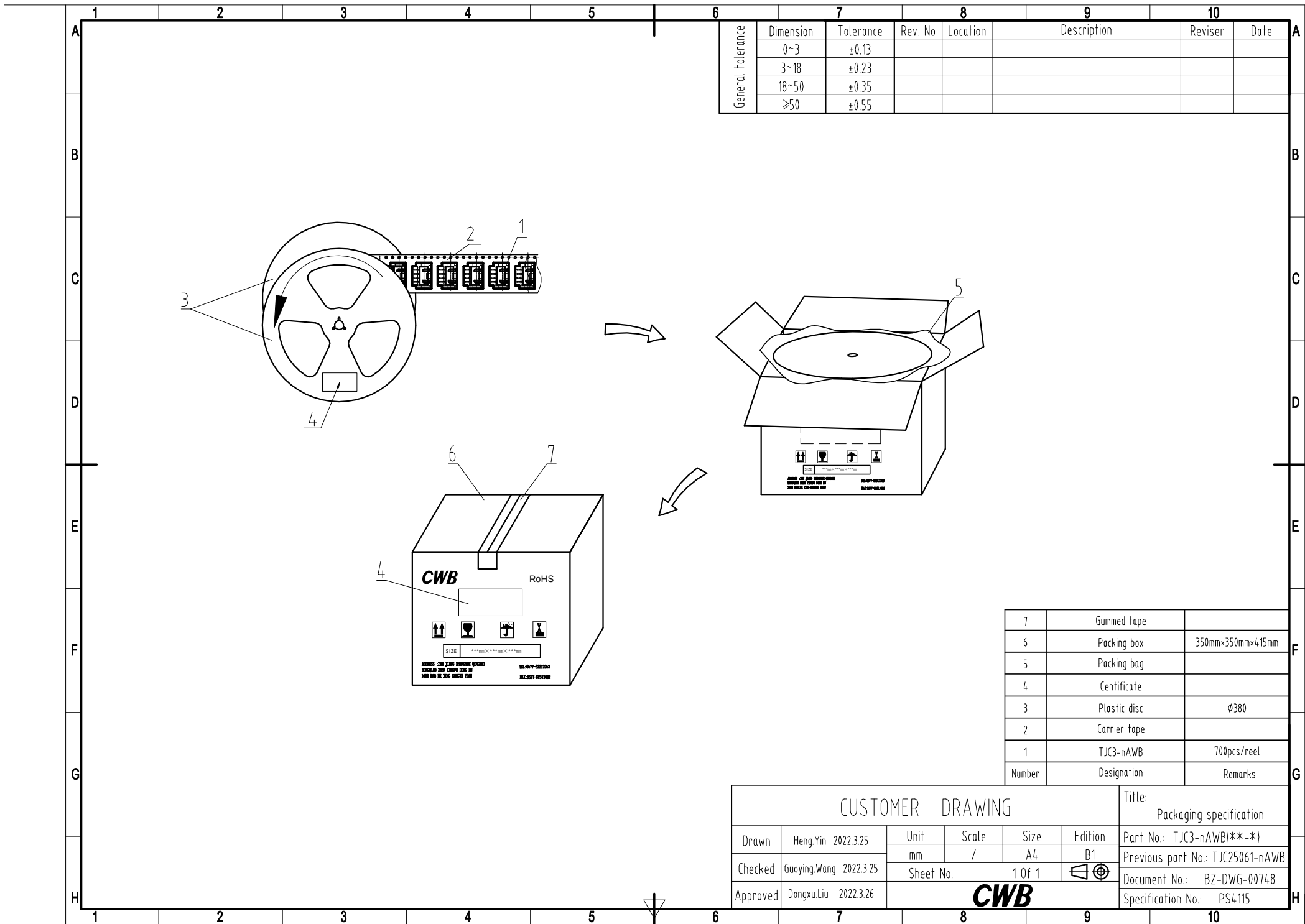


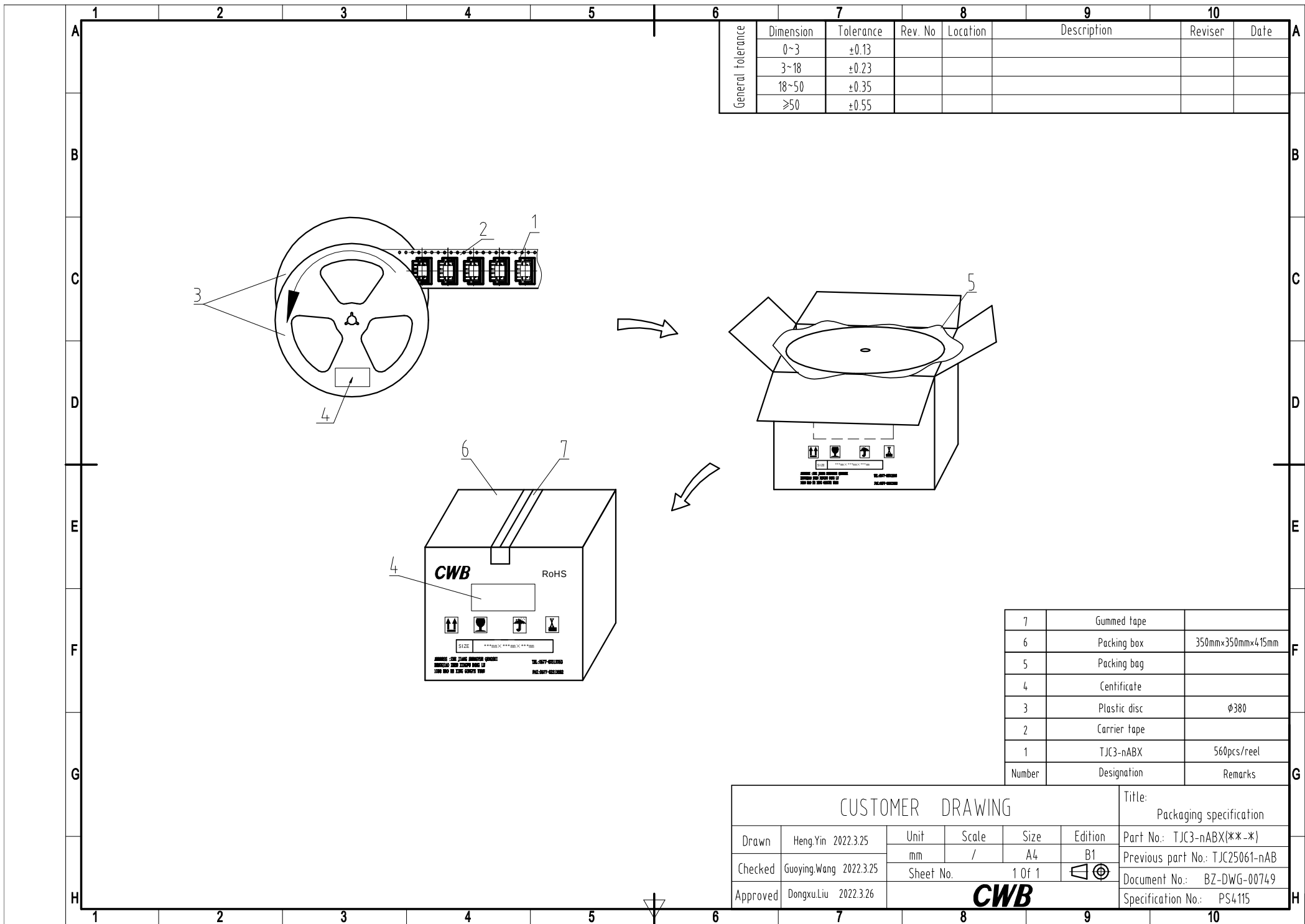
|                  |                        |                  |                   |           |                                                                                       |                                   |         |
|------------------|------------------------|------------------|-------------------|-----------|---------------------------------------------------------------------------------------|-----------------------------------|---------|
| 5                | Packing box            |                  |                   | TJC3-8ADK | TJC3-8AD                                                                              | 1000                              |         |
| 4                | Gummed tape            |                  |                   | TJC3-7ADK | TJC3-7AD                                                                              | 1000                              |         |
| 3                | Packing bag            |                  |                   | TJC3-6ADK | TJC3-6AD                                                                              | 1000                              |         |
| 2                | Certificate            |                  |                   | TJC3-5ADK | TJC3-5AD                                                                              | 1000                              |         |
| 1                | TJC3 series header     |                  |                   | TJC3-4ADK | TJC3-4AD                                                                              | 1000                              |         |
| Number           | Designation            | Part No.         | Previous part No. | Part No.  | Part No.                                                                              | Pcs/bag                           | Remarks |
| CUSTOMER DRAWING |                        |                  |                   |           |                                                                                       | Title:<br>Packaging specification |         |
| Drawn            | Heng.Yin 2022.3.25     | Unit             | Scale             | Size      | Edition                                                                               | Part No.: TJC3-nADK-*(***)        |         |
| Checked          | Guoying.Wang 2022.3.25 | mm               | /                 | A4        | B1                                                                                    | Previous part No.: TJC3-nAD       |         |
| Approved         | Dongxu.Liu 2022.3.26   | Sheet No. 1 Of 1 |                   |           |  | Document No.: BZ-DWG-00827        |         |
|                  |                        |                  |                   |           |                                                                                       | Specification No.: PS4115         |         |



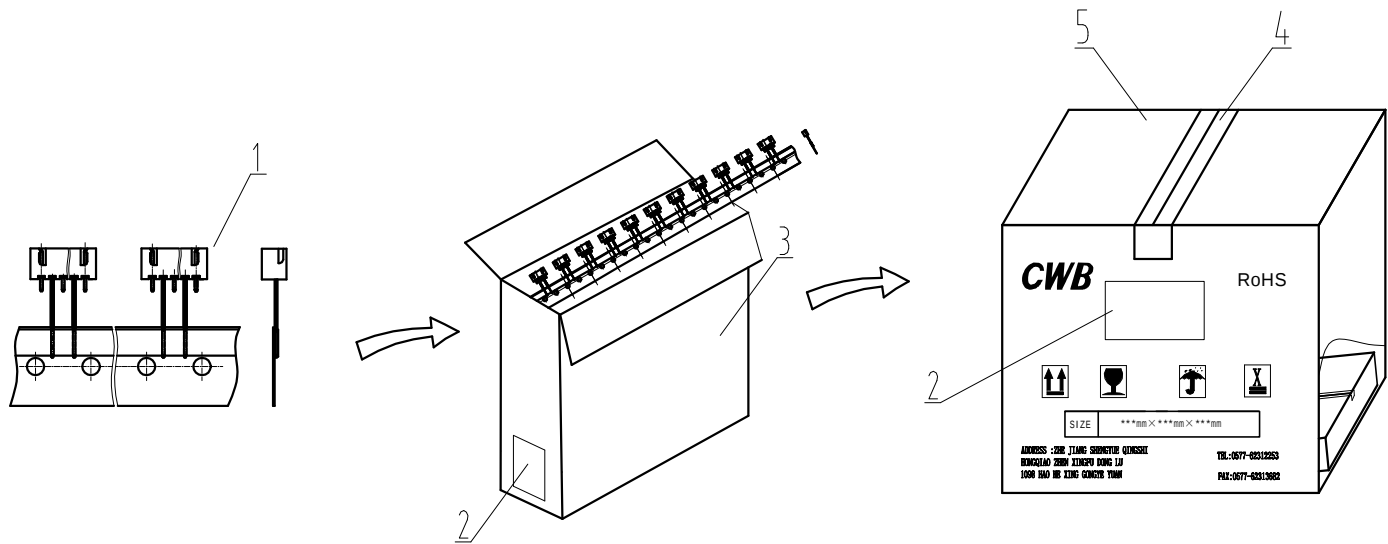






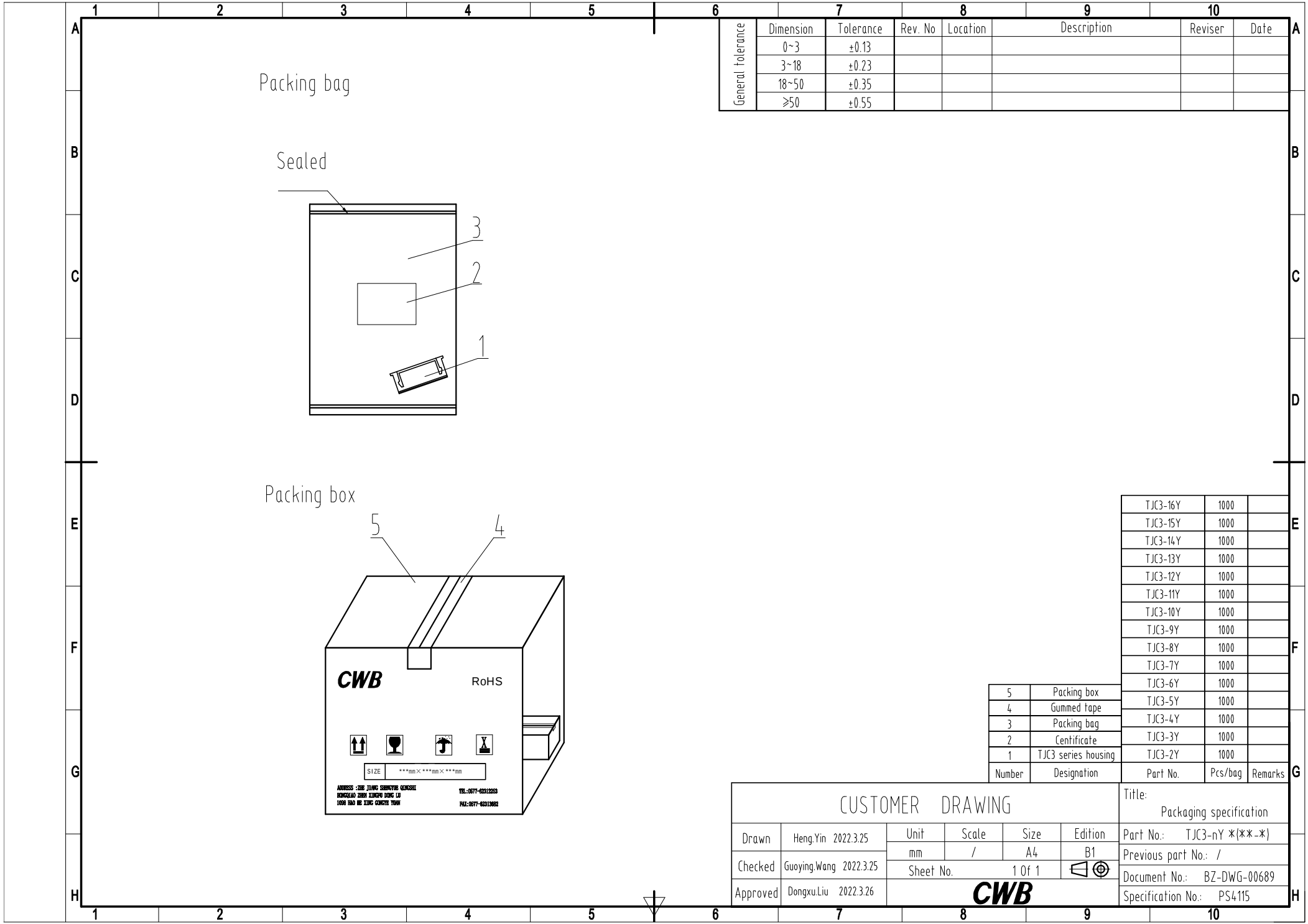


| General Tolerance | Dimension | Tolerance | Rev. No | Location | Description | Reviser | Date |
|-------------------|-----------|-----------|---------|----------|-------------|---------|------|
|                   | 0~3       | ±0.13     |         |          |             |         |      |
|                   | 3~18      | ±0.16     |         |          |             |         |      |
|                   | 18~50     | ±0.31     |         |          |             |         |      |
|                   | ≥50       | ±0.55     |         |          |             |         |      |



|        |                                |          |         |         |
|--------|--------------------------------|----------|---------|---------|
| 5      | Packing box                    | TJC3-6AT | 500     |         |
| 4      | Gummed tape                    | TJC3-5AT | 500     |         |
| 3      | Packing box                    | TJC3-4AT | 500     |         |
| 2      | Certificate                    | TJC3-3AT | 1000    |         |
| 1      | TJC3-nAT series plug connector | TJC3-2AT | 1000    |         |
| Number | Designation                    | Part No. | Pcs/box | Remarks |

| CUSTOMER DRAWING |                        |            |       |        |                                                                                       | Title:<br>Packaging Specification |  |
|------------------|------------------------|------------|-------|--------|---------------------------------------------------------------------------------------|-----------------------------------|--|
| Drawn            | Heng.Yin 2021.8.11     | Unit       | Scale | Size   | Edition                                                                               | Part No.: TJC3-nAT(××-×)          |  |
| Checked          | Duoying.Wang 2022.8.24 | mm         | /     | A4     | B                                                                                     | Previous part No.: TJC3-nA-1      |  |
|                  |                        | Sheet No.  |       | 1 Of 1 |  | Document No.: BZ-DWG-00638        |  |
| Approved         | Dongxu.Liu 2022.8.24   | <b>CWB</b> |       |        |                                                                                       | Specification No.: PS4115         |  |



| 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     |         |          |             |         |      |

|   |                     |          |      |  |
|---|---------------------|----------|------|--|
| 5 | Packing box         | TJC3-16Y | 1000 |  |
| 4 | Gummed tape         | TJC3-15Y | 1000 |  |
| 3 | Packing bag         | TJC3-14Y | 1000 |  |
| 2 | Certificate         | TJC3-13Y | 1000 |  |
| 1 | TJC3 series housing | TJC3-12Y | 1000 |  |
|   |                     | TJC3-11Y | 1000 |  |
|   |                     | TJC3-10Y | 1000 |  |
|   |                     | TJC3-9Y  | 1000 |  |
|   |                     | TJC3-8Y  | 1000 |  |
|   |                     | TJC3-7Y  | 1000 |  |
|   |                     | TJC3-6Y  | 1000 |  |
|   |                     | TJC3-5Y  | 1000 |  |
|   |                     | TJC3-4Y  | 1000 |  |
|   |                     | TJC3-3Y  | 1000 |  |
|   |                     | TJC3-2Y  | 1000 |  |

| Number | Designation         | Part No. | Pcs/bag | Remarks |
|--------|---------------------|----------|---------|---------|
| 5      | Packing box         | TJC3-16Y | 1000    |         |
| 4      | Gummed tape         | TJC3-15Y | 1000    |         |
| 3      | Packing bag         | TJC3-14Y | 1000    |         |
| 2      | Certificate         | TJC3-13Y | 1000    |         |
| 1      | TJC3 series housing | TJC3-12Y | 1000    |         |

| CUSTOMER DRAWING |              |           |            |       |        | Title:<br>Packaging specification                                                     |                            |
|------------------|--------------|-----------|------------|-------|--------|---------------------------------------------------------------------------------------|----------------------------|
| Drawn            | Heng.Yin     | 2022.3.25 | Unit       | Scale | Size   | Edition                                                                               | Part No.: TJC3-nY *(**~*)  |
| Checked          | Guoying.Wang | 2022.3.25 | mm         | /     | A4     | B1                                                                                    | Previous part No.: /       |
|                  |              |           | Sheet No.  |       | 1 Of 1 |  | Document No.: BZ-DWG-00689 |
| Approved         | Dongxu.Liu   | 2022.3.26 | <b>CWB</b> |       |        |                                                                                       | Specification No.: PS4115  |

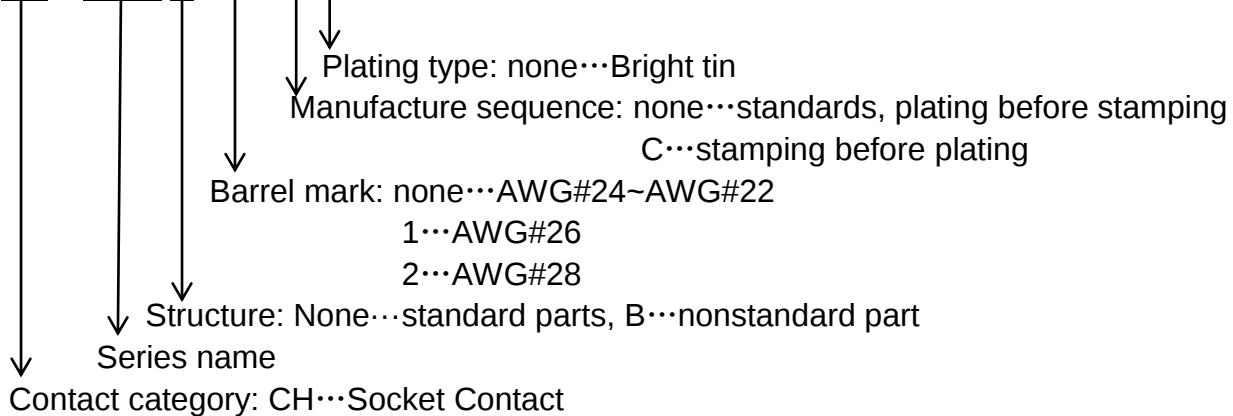
## TJC3 系列命名规则

### TJC3 series naming conventions

#### 1. Contact

CH-TJC3-\*\*\*, CH-TJC3B-\*\*

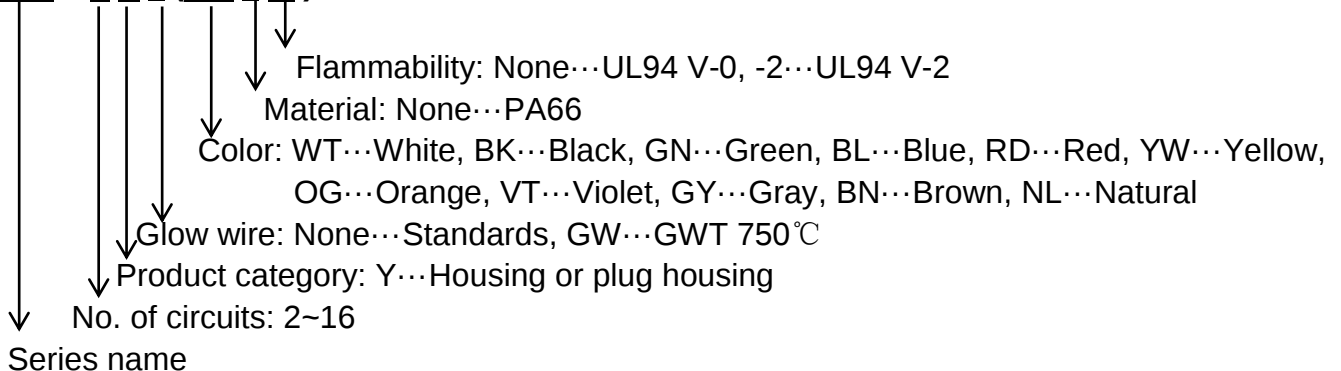
CH - TJC3 B - \* - \* \*



#### 2. Housing

TJC3-nY \* (\*\*-\*)

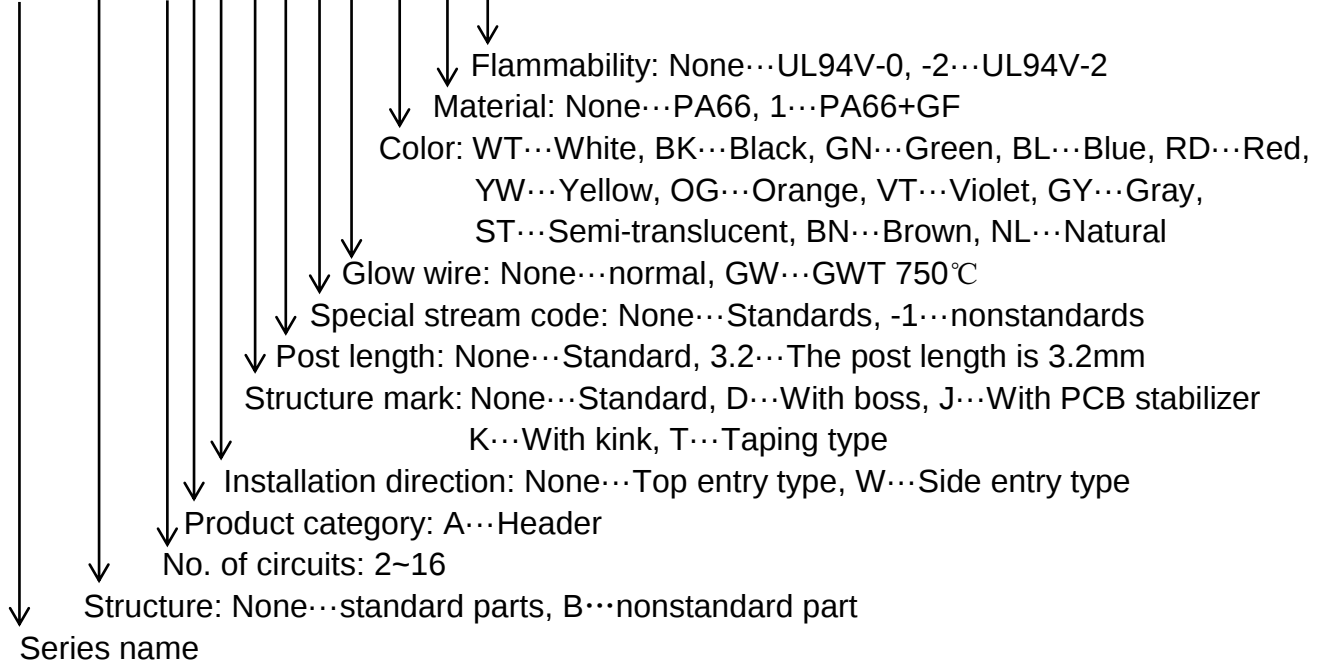
TJC3 - n Y \* (WT \* -\*)



### 3. DIP Header

TJC3-nA (\*\*-\*), TJC3-nAK (\*\*-\*), TJC3-nAK3.2 (\*\*-\*), TJC3-nAK-1 (\*\*-\*), TJC3-nADK (\*\*-\*),  
TJC3B-2AK (\*\*-\*), TJC3-nADK-1 (\*\*-\*), TJC3-nAW (\*\*-\*), TJC3-nAW3.2 (\*\*-\*), TJC3-nAW  
-1 (\*\*-\*), TJC3-nAJ (\*\*-\*), TJC3-nAWJ (\*\*-\*), TJC3-nAWJK (\*\*-\*), TJC3-nAWJ3.2 (\*\*-\*),  
TJC3-nAT

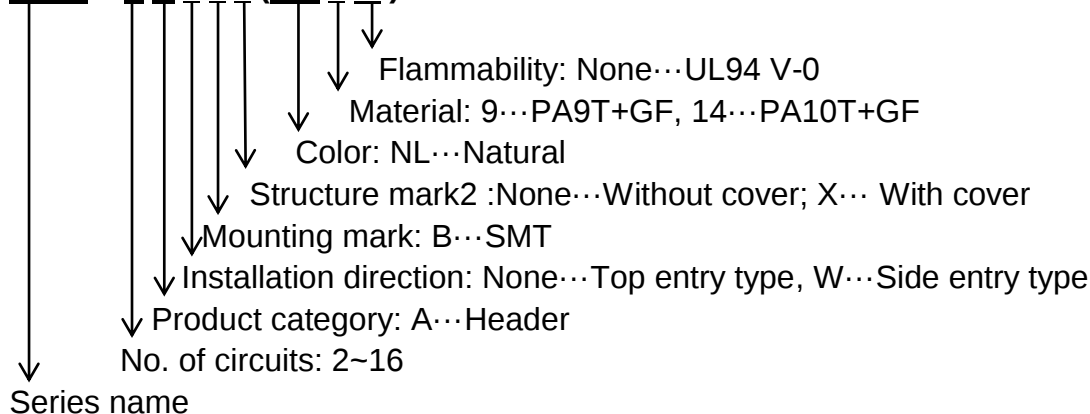
**TJC3 (B) - n A \* \* \* \* (WT \* -\*)**



### 4. SMT Header

TJC3-nAB (\*\*-\*), TJC3-nABX (\*\*-\*), TJC3-nAWB (\*\*-\*)

**TJC3 - n A \* \* \* (WT \* -\*)**



## 5. Assembly which missing circuits

TJC3-nA \* mZ(a.b...) \* (\*\*-\*), TJC3-nAW \* mZ(a.b...) \* (\*\*-\*), TJC3-nAJ \* mZ(a.b...) \* (\*\*-\*), TJC3-nAWJ \* mZ(a.b...) \* (\*\*-\*), TJC3-nAD \* mZ(a.b...) \* (\*\*-\*), TJC3-nA\*\*\* mZ(a.b...)3.2 \*(\*\*-\*)

... n A ... m Z (a.b...)...

Missing circuit number: "a.b..." ...The positive integer represents the position of the missing circuits

No. of actual circuits:  $mZ$  ("m" is positive integer)

↓ Product category: A...Header

No. of circuits: 2~16

| 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)…             | ○                           | × | ○ | ○ |   |   |   |   |   |    |    |    |    |    |    |
| *****                    | *****                       |   |   |   |   |   |   |   |   |    |    |    |    |    |    |