

标题: TJC6203 系列连接器

Title: TJC6203 Connector

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	审核 Check: <u>王国英 2022. 07. 27</u>	编号 Document No.: <u>PS4144</u>
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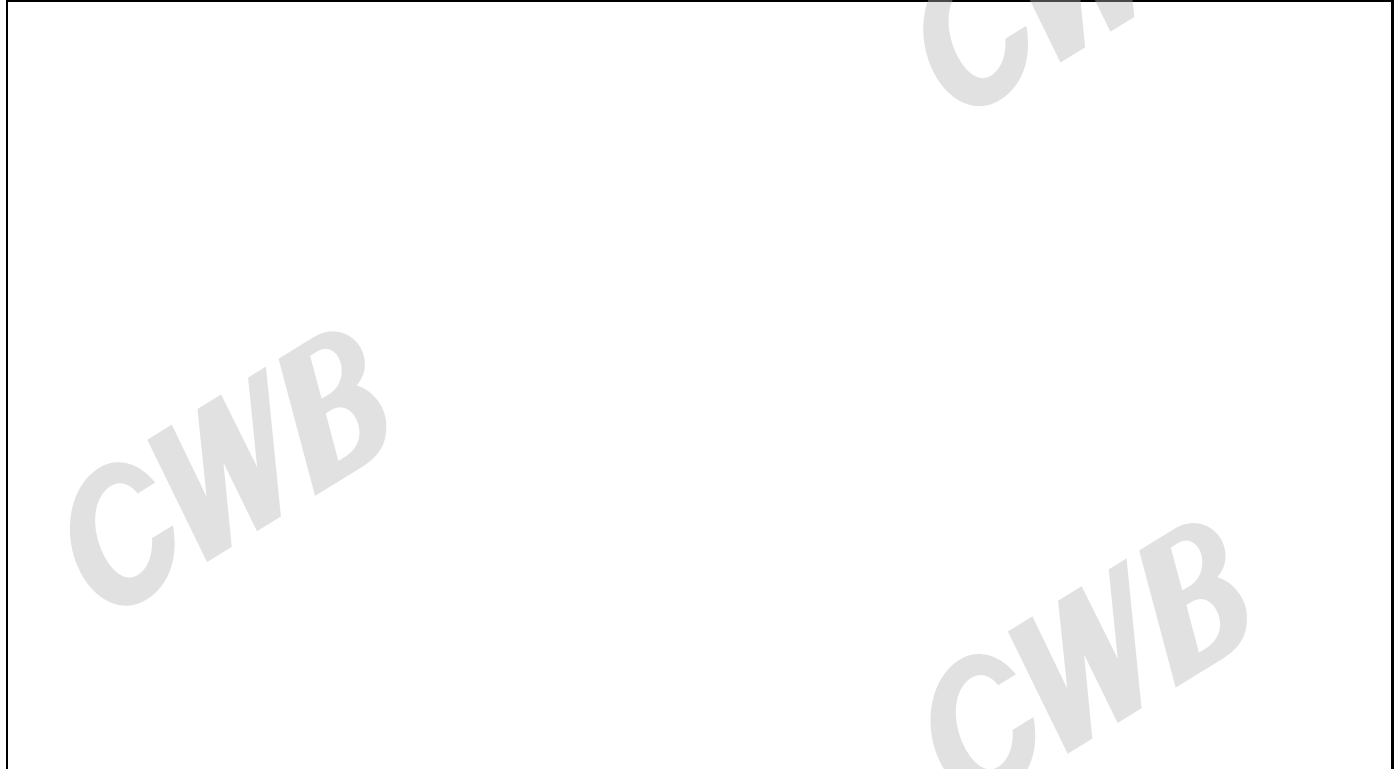


产品规格书

PRODUCT SPECIFICATION

1.更改履历 Change record

版本号 Version No.	更改前描述 Description before modification	更改后描述 Description after modification	更改人/日期 Reviser/Date
V0	/	首版发布 First release	张玲玲 2022/01/07 Lingling. Zhang 2022/01/07
V1	/	更改压接导线 Change the crimp line	张玲玲 2022/02/15 Lingling. Zhang 2022/02/15
V2	/	模板更新 Update the template	张玲玲 2022/02/27 Lingling. Zhang 2022/02/27
V3	/	根据新命名规范更新产品名称和规格 Update specifications and part no according to new naming specifications	张玲玲 2022/03/24 Lingling. Zhang 2022/03/24
V4	/	增加类型 Increase the type	张玲玲 2022/04/11 Lingling. Zhang 2022/04/11
V5	/	增加类型 Increase the type	张玲玲 2022/04/15 Lingling. Zhang 2022/04/15
V6	/	增加导线类型 Increase wire type	张玲玲 2022/05/20 Lingling. Zhang 2022/05/20
V7	/	新增 TJC6203-4Y-1/TJC6203-4A-1/TJC6203-2×nA 系列产品 Added TJC6203-4Y-1/TJC6203-4A-1/TJC6203-2×nA series products	尹恒 2022/07/19 Heng. Yin 2022/07/19
V8	/	TJC6203 系列 Y 座图纸由于设计更改而更新 TJC6203 Series Y block drawings are updated due to design changes	胡杰斌 2024/07/09 Jiebin.Hu 2024/07/09
V9	/	使用温度范围改为-40℃~+105℃ The operating temperature range is changed to -40℃ to +105℃	徐秋秋 2025/07/22 Qiuqiu.Xu 2025/07/22



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2.适用范围 Scope

本产品规格书适用于浙江合兴电子元件有限公司生产的 WTW&WTB 6.2 阴型 & 阳型电子连接器, 产品名称: TJC6203 系列连接器。

This product specification covers the requirement for wire to wire& wire to board 6.2mm pitch Receptacle & Plug connector, which are designed and manufactured by CWB Electronics(ZheJiang) Co.,LTD. P/N: TJC6203 Connector.

3.产品描述 Product description

TJC6203 系列产品为家电连接器产品, 产品部件组成如下:

The TJC6203 series connector designed for home appliances connection. part checklist as following form:

零件名称 Part name	规格型号 Part No.	曾用规格型号 Previous part No.	描述 Description
插簧 Socket contact	CH-TJC6203-**-	CH-TJC6203-D	AWG#19~AWG#16, RV-90 0.75mm ² ; 300VBX-ER500 1.25 mm ²
插簧 Socket contact	CH-TJC6203-1-**-	CH-TJC6203-1-D	AWG#16~AWG#14, SHKV0.75 mm ² ±0.75 mm ² ; 300VBX-ER500 1.25 mm ² ;
插簧 Socket contact	CH-TJC6203-2-**-	/	AWG#12, SHKV2.0 mm ² ±SHKV0.75 mm ²
插簧 Socket contact	CH-TJC6203-3-**-	/	AWG#22~AWG#20, SHKV0.3 mm ² ; SHKV0.5 mm ² RV-90 0.3mm ² ;RV-90 0.5mm ² RV-90 0.75mm ²
插针 Pin contact	CZ-TJC6203-**-	CZ-TJC6203-D	AWG#19~AWG#16, RV-90 0.75mm ² ; 300VBX-ER500 1.25 mm ²
插针 Pin contact	CZ-TJC6203-1-**-	CZ-TJC6203-1-D	AWG#16~AWG#14, SHKV0.75 mm ² ±0.75 mm ² ; 300VBX-ER500 1.25 mm ² ;
插针 Pin contact	CZ-TJC6203-2-**-	/	AWG#12, SHKV2.0 mm ² ±SHKV0.75 mm ²
插针 Pin contact	CZ-TJC6203-3-**-	/	AWG#22~AWG#20, SHKV0.3 mm ² ; SHKV0.5 mm ² RV-90 0.3mm ² ;RV-90 0.5mm ² RV-90 0.75mm ²
孔座(带锁扣, 含锁紧片保持结构, 带外锁扣) Plug housing(W/Lock, W/Retainer, W/Lock)	TJC6203-nY(**-*) TJC6203-nY-1(**-*) TJC6203-2 ×nY(**-*)	TJC6203-nY TJC6203-nY-1 TJC6203-2 ×nY	PA66 UL94 V-0

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产品规格书

PRODUCT SPECIFICATION

针座(面板安装, 含锁紧片保持结构) Receptacle housing(Panel mount, W/Retainer)	TJC6203-nARP(**-*) TJC6203-2 ×nARP(**-*)	TJC6203-nAR TJC6203-2 ×nAR	PA66 UL94 V-0
针座(含锁紧片保持结构) Receptacle housing(W/Retainer)	TJC6203-nAR(**-*) TJC6203-2 ×nAR(**-*)	TJC6203B-nAR TJC6203B-2 ×nAR	PA66 UL94 V-0
锁紧片 Retainer	TJC6203-nS (**-*)	TJC6203-nS	PA66 UL94 V-0 GWT750℃
阳连接器 (立式, 直插) Header (V, DIP)	TJC6203-nA(**-*) TJC6203-nA-1(**-*) TJC6203-2 ×nA(**-*)	/	Wafer:PA66 UL94V-0 Post: Phosphor bronze, Tin over nickel plated

4.相关标准 Related standards

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

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

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

产品符合 RoHS 标准。

The product should comply with RoHS.

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5.参数范围 Parameter ratings:

	No. of circuit s	线号 AWG/电流 [AC(有效值 rms)/DC]										
		AWG #12	AWG #14	AWG #15	AWG #16	AWG #18	300VBX- ER500 1.25mm ²	RV-90 0.75 mm ² /AWG#19	SHKV0.7 5mm ² + SHKV0.7 5 mm ²	SHKV 2.0 mm ² +SHKV 0.75 mm ²	SHKV 0.5 mm ² /RV-90 0.5 mm ² /AWG#20	SHKV 0.3 mm ² /RV-90 0.3 mm ² /AWG#22
额定电流 [AC(有 值)/DC] Rated current [AC(rms)/DC]	1	20A	15A	12A	10A	8A	9A	5.5A	5.5A	5.5A	5A	3A
	2	20A	15A	12A	10A	8A	9A	5.5A	5.5A	5.5A	5A	3A
	3	17A	14A	11A	9A	8A	9A	5.5A	5.5A	5.5A	5A	3A
	4	16A	13A	10A	9A	7A	8A	4.5A	4.5A	4.5A	4A	2.5A
	6	15A	12A	9A	8A	7A	8A	4.5A	4.5A	4.5A	4A	2.5A
	8	14A	11A	8A	7A	6A	7A	3.5A	3.5A	3.5A	3A	2A
	12	13A	10A	8A	7A	6A	7A	3.5A	3.5A	3.5A	3A	2A
额定电压[AC(有效 值)/DC] Rated voltage[AC(rms)/DC]	600V											
使用温度范围(包含 温升) Operating temperature range(include temperature rise)	-40℃~+105℃											
适用线型（具体适用 线型请参考压接规 格书） Applicable wires(Please refer to the crimping specification for details)	CH-TJC6203 CZ-TJC6203		Wire size: AWG#19~AWG#16, RV-90 0.75 mm ² ; 300VBX-ER500 1.25 mm ² (0.75~1.31mm ²) Insulation diameter:1.74mm~2.55 mm									
	CH-TJC6203-1 CZ-TJC6203-1		Wire size: AWG#16~AWG#14, 300VBX-ER500 1.25 mm ² ; SHKV0.75 mm ² +0.75 mm ² (1.25mm ² ~2.08 mm ²) Insulation diameter: 2.35mm~2.1mm+2.1mm (压接参数由压接厂家自行定义) (The crimping parameters comply with the requirements of the crimping manufacturer)									
	CH-TJC6203-2 CZ-TJC6203-2		Wire size: AWG#12, SHKV2.0 mm ² +SHKV0.75 mm ² (2.0 mm ² +0.75mm ² ~3.25mm ²) Insulation diameter: 3.0mm+2.1 mm~4.0mm (压接参数由压接厂家自行定义) (The crimping parameters comply with the requirements of the crimping manufacturer)									
	CH-TJC6203-3 CZ-TJC6203-3		Wire size: AWG#22~AWG#20, SHKV0.3mm ² ~SHKV0.5 mm ² , RV-90 0.3 mm ² ~RV-90 0.5 mm ² , RV-90 0.75mm ² (0.3 mm ² ~0.75mm ²) Insulation diameter:1.45mm~2.55mm									
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适用面板厚度 Applicable panel thickness	0.5 mm ~2.0 mm
适用 PCB 板 Applicable PCB	Board thickness:1.6mm Hole diameter: ϕ 1.8($\pm$ 0.05)mm / ϕ 2.1($\pm$ 0.05)mm

6.产品性能 Performance

6.1 机械性能 Mechanical

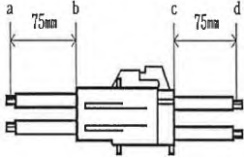
序号 No.	项 目 Item	测试条件 Test condition	规 格 Requirement	
6.1.1	外观 Appearance	目测 Checking by eyes 视力: 1.0 以上 Eyesight: > 1.0 照明: (200~300) lx Lamp: (200~300) lx 目测距离: (0.3~0.5) m Space: (0.3~0.5) m GB/T 5095.2 Method 1a	1.塑料件表面应无明显疤痕、凹陷、开裂及影响使用的变形。 Plastic part: smooth and flat surface without discolor, broken, crack, and distortion, etc. 2 金属件表面无锈蚀、氧化、无明显的机械损伤及电镀层脱落等缺陷。 Metal part: bright and even surface without rust, oxide, fog and obvious physical damage, etc.	
6.1.2	端子插入力与 固定力 Insertion force and retention force for contact	应测量将端子沿轴线方向插入孔座与针座和拔出孔座与针座的力(测试速度:25mm /min) The force of inserting and pulling the contact into and out of the receptacle housing and plug housing along the axis shall be measured (Testing speed: <25 mm/min.) GB/T 5095.8 Method 15d / EIA-364-29B	插入力: $\leq$ 9.8N 固定力(带锁紧片测试): $\geq$ 68.6N Insertion force: $\leq$ 9.8N Retention force (Test with locking plate): $\geq$ 68.6N	
6.1.3	针的固定力 Post retention force	沿插针轴线方向施加推力, 测量将插针从塑件上分离的力, 测试速度不大于 25 mm/min。 The end of a post shall be pushed in a direction perpendicular to a wafer. The load required to make the post start moving from the wafer shall be measured. (Testing speed: <25 mm/min.) GB/T 5095.8 Method 15a / EIA-364-29B	15N Min.	
6.1.4	锁扣强度 Lock strength	固定连接器和测力计, 在连接器轴线方向将配合后的连接器拔出, 速度不大于 25 mm/min., 测量时连接器应无端子或端子不影响锁扣强度的测量结果 Apply axial withdraw force on the connector which without contact or the contacts shall not affect lock strength at a rate less than 25 mm/min. GB/T 5095.8 Method 15f / EIA-364-29B	1PIN	2PIN~12PIN
			68.6N Min.	98N Min.

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6.1.5	压着部位抗张强度 Crimp tensile strength	在已压接端子的头部和导线上施加拉力，并测量将导线从端子拉出或导线断裂所需的力(测试速度:25mm/min) Pulling load shall be applied to a correctly crimped contact and a wire. The load required to pull the wire out of the contact or break the wire shall be measured. (Testing speed: <25 mm/min.) GB/T5095.8 Method 16d / EIA-364-08B	RV-90 0.3 mm² : 40 N Min. RV-90 0.5 mm² : 50 N Min. RV-90 0.75 mm² : 80 N Min. 300VBX-ER500 1.25 mm² : 100 N Min. SHKV0.3 mm² : 40N Min. SHKV0.5 mm² : 50N Min. SHKV0.75 mm² : 80N Min. SHKV2.0 mm² +SHKV0.75 mm² : 150 N Min. AWG#22: 40 N Min. AWG#20: 50 N Min. AWG#19 : 80N Min. AWG#18 : 80 N Min. AWG#16 : 120 N Min. AWG#15 : 150 N Min. AWG#14: 150 N Min. AWG#12: 150 N Min.			
6.1.6	成品插入力与拔出力 (去锁扣) Insertion force and withdrawal force (without lock)	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10次拔出力 (速度不大于25mm/min.) A plug housing with crimped contacts and a receptacle housing shall be mated and unmated on the mating axis. Initial insertion and withdrawal forces and withdrawal force at 10th shall be measured. (Testing speed: <25 mm/min.) GB/T 5095.7 Method 13b / EIA-364-13B	极数 No. of poles	插入力 (最大) Insertion(Max.)	拔出力 (最小值) Withdrawal (Min.)	
			初次 1st.		初次 1st.	第十次 10th.
			1P	9.8N	2.0N	1.5N
			2P	19.6N	4.0N	3.0N
			3P	29.4N	6.0N	4.5N
			4P	39.2N	8.0N	6.0N
			6P	58.8N	12.0N	9.0N
			8P	78.4N	16.0N	12N
			12P	117.6N	24.0N	18N
6.1.7	机械振动 Vibration	插合连接器，串联在直流电源上，电流100mA；并模拟正常工作状态：振频为 (10~55~10) Hz，每个循环时间为1分钟，振幅1.52mm。沿XYZ三轴正反方向各循环2小时 Mate connectors subjected them to following vibration conditions, for a period of 2 hours in each of 3 mutually perpendicular axes, 100 mA current shall be applied. Frequency: (10~55~10)Hz/min. Cycling time: 1 min. Amplitude: 1.52mm. GB/T 5095.4 Method 6d / EIA-364-28D	外观：无损伤 (参照6.1.1) Appearance: no damage. (refer to 6.1.1) 接触电阻：10mΩ Max. Contact resistance: 10mΩ Max. 电流中断时间：1μsec Max Current interruption: 1μsec Max			
6.1.8	机械冲击 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 冲击强度：490m/s² 持续时间：11ms Mate connectors and subject them to the following shock conditions, 3 times of shock shall be applied for each 6 directions along 3 mutually perpendicular axes, passing DC 100mA current during the test.(total of 18 shocks) Test pulse: 490m/s² Duration: 11ms GB/T 5095.4 Method 6c / EIA-364-27B	外观：无损伤 (参照6.1.1) Appearance: no damage.(refer to 6.1.1) 电流中断时间：1μsec Max Current interruption: 1μsec Max			
6.1.9	机械寿命 Durability	以每分钟 10 次的速度插拔 50 次 50 cycles for mating and unmating test at the speed of 10 cycles per minute GB/T 5095.5 Method 9a / EIA-364-09C	外观：无损伤 (参照6.1.1) Appearance: no damage. (refer to 6.1.1) 接触电阻：10mΩ Max. Contact resistance: 10mΩ Max.			

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6.2 电气性能 Electrical

序号 No.	项 目 Item	测试条件 Test condition	规格 Requirement
6.2.1	接触电阻 (电压降) Contact resistance (voltage drop)	按下图, 试验电压应 $\leq 20\text{mV}$ 直流电压, 试验电流应 $\leq 100\text{mA}$; $R_{\text{接触电阻}} = R_{\text{ad}} - (R_{\text{ab}} + R_{\text{cd}})$ According to the following figure, the test voltage should be $\leq 20\text{mV}$ DC voltage, and the test current should be $\leq 100\text{mA}$, R contact resistance = $R_{\text{ad}} - (R_{\text{ab}} + R_{\text{cd}})$ 	7m Ω Max. (Initial) 10m Ω Max. (Final)
6.2.2	绝缘电阻 Insulation resistance	在相邻接触件之间或地线之间, 用 500V DC 电压进行测试。 Apply a voltage of 500V DC between adjacent contacts and between contacts to ground. GB/T 5095.2 Method 3a / EIA-364-21C	1000 M Ω Min. (Initial) 500 M Ω Min. (Final)
6.2.3	耐电压 Withstand voltage	相邻接触件之间或地线之间施加 2000V AC (有效值), 漏电流 1mA 的电压作用, 时间 1min。 Apply a voltage of 2000V AC (rms) and leakage current of 1mA between adjacent contacts or ground cables for 1 minute. GB/T 5095.2 Method 4a / EIA-364-20B	外观: 无击穿和飞弧现象 Appearance: no breakdown or flashover
6.2.4	温升 Temperature rise	插合连接器, 通以最大允许电流, 测温度的差值 Mate connectors and measure the temperature rise of contact when the maximum AC rated current is passed. GB/T 5095.3 Method 5a / EIA-364-70A	$\Delta 30^{\circ}\text{C}$ Max.

6.3 环境性能 Environmental

序号 No.	项 目 Item	测试条件 Test condition	规格 Requirement
6.3.1	耐高温 Heat resistance	连接器配合后, 于 $(125 \pm 3)^{\circ}\text{C}$ 的空气中放置 96 小时, 再回到室温中放置 (1~2) 小时测定 Mated connectors exposed to the condition of $(125 \pm 3)^{\circ}\text{C}$ for 96 hours, recovery time (1~2) hours GB/T 5095.6 Method 11i / EIA-364-17B	外观: 无损伤(参照6.1.1) Appearance: No damage.(refer to 6.1.1) 接触电阻: 10m Ω Max. Contact resistance: 10m Ω Max. 绝缘电阻: 500 M Ω Min Insulation resistance : 500 M Ω Min. 耐电压: 1500V Min. Withstand voltage: 1500V Min.
6.3.2	恒定湿热 Humidity	温度 $(40 \pm 2)^{\circ}\text{C}$, 相对湿度 $(90 \sim 95)\%$ 搁置时间 96h, 取出恢复(1~2)h 后检查。 Mated connectors exposed to the condition of temperature $(40 \pm 2)^{\circ}\text{C}$, humidity $(90 \sim 95)\%$ for 96 hours, recovery time (1~2) hours GB/T 5095.6 Method 11c / EIA-364-31B	外观: 无损伤(参照6.1.1) Appearance: No damage.(refer to 6.1.1) 接触电阻: 10m Ω Max. Contact resistance: 10m Ω Max. 绝缘电阻: 500 M Ω Min Insulation resistance : 500 M Ω Min. 耐电压: 1500V Min. Withstand voltage: 1500V Min.

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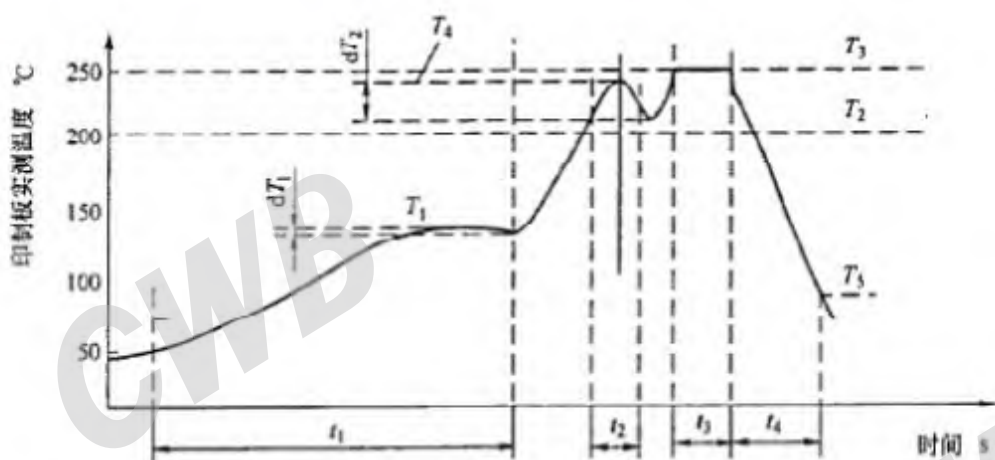
V9

6.3.3	温度循环 Temperature cycling	把试验样品分别放入高、低温试验箱中,按下列步骤测试温度: a) 在(-55±2)℃的恒温条件下放置 0.5 小时; b) 在(85±2)℃的恒温条件下放置 0.5 小时; 从 a)到 b)为一个循环,周期温度转换时间应不大于 5 分钟,共进行 25 个循环,恢复(1~2)小时后检查 Mated connectors shall be tested under the following conditions <table><tr><th></th><th>Temperature °C</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> Step 1 to 4 is one cycle,25 cycles shall be tested, recovery time (1~2) hours GB/T 5095.6 method 11d / EIA-364-32C		Temperature °C	Duration	1	-55±2	0.5h	2	Room Temp.	5 minutes Max.	3	+85±2	0.5h	4	Room Temp.	5 minutes Max.	外观: 无损伤(参照6.1.1) Appearance: No damage.(refer to 6.1.1) 接触电阻: 10mΩ Max. Contact resistance: 10mΩ Max. 绝缘电阻: 500 MΩ Min Insulation resistance : 500 MΩ Min. 耐电压: 1500V Min. Withstand voltage: 1500V Min.
	Temperature °C	Duration																
1	-55±2	0.5h																
2	Room Temp.	5 minutes Max.																
3	+85±2	0.5h																
4	Room Temp.	5 minutes Max.																
6.3.4	盐雾 Salt spray	把试验样品从试验箱顶悬挂下来,采用浓度为(5±1)%(质量百分比)的氯化钠溶液,在(35±2)℃温度下连续雾化 48 小时,试验后用流动的蒸馏水轻轻洗去表面沉积物。在常温常湿条件下恢复(1~2)小时。 48 hours spray, at temp (35±2)℃, NaCl mist concentration (5±1)%. After test wash parts and put it into room ambient for (1~2) hours GB/T 5095.6 Method 11f /EIA-364-26B	外观: 无损伤(五金件应无露出底金属的严重锈蚀;使用预镀好的型材,其落料面允许有不影响其性能的轻微腐蚀。) Appearance: no damage (no erosion on material exposed. and plating material, slight erosion on the cutting surface is acceptable) 接触电阻: 10mΩ Max. Contact resistance: 10mΩ Max.															
6.3.5	硫化氢气体测试 (H ₂ S gas test)	连接器配合后,在温度(40±2)℃、湿度 80%、H₂S 气体浓度为(3±1)ppm 的环境中放置 96 小时。 Mated connectors exposed to the condition of temperature (40±2)℃, humidity 80%, H₂S gas concentration of (3±1)ppm for 96 hours.	接触电阻: 10mΩ Max. Contact resistance: 10mΩ Max.															
6.3.6	工业气体(氨气) Industrial gas(Ammonia) (NH ₃)	连接器在每升容积内含25毫升3%氨溶液的氨气箱中暴露7小时。 After 7 hours exposure in ammonia chamber with 25 mL of 3% ammonia solution for every liter of chamber capacity	无应力腐蚀开裂 No stress corrosion cracking															
6.3.7	可焊性 Solderability	把试验样品需要焊接的部位浸入焊锡炉中,锡炉温度(245±5)℃,时间(4~5)秒。 Dip solder tails into the molten solder held at (245±5) °C for (4~5) seconds IPC EIA IPC JEDEC J STD 002E	上锡率≥95 % Solder coverage: ≥95 %															
6.3.8	耐焊接热 Resistance to soldering heat	1.耐波峰焊热: 把试验样品需要焊接的部位浸入焊锡炉中,锡炉温度(260±5)℃;时间(5±1)秒后,在正常条件下恢复(1~2)小时。(温度曲线见图) 2.手工焊接: 温度(350±10)℃,时间(1~2) seconds。 1.Resistance to wave soldering heat: Dip solder tails into the molten solder held at (260±5) °C for (5 ±1) seconds, recovery time (1~2) hours. (The temperature curve is shown in Figure 1) 2.Manual soldering: (350±10) °C for (1~2) seconds	外观: 无损伤(参照6.1.1) Appearance: no damage.(refer to 6.1.1)															

产品名称 Product name	TJC6203 系列连接器	编号 Document No.	PS4144	版本号 Version No.	V9
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6.3.9	灼热丝 Glow wire (只针对 GWT750℃产 品 Only for GWT750℃ product)	750℃灼热丝顶部接触试验样品， 接触时间：(30±1)s 接近和离开速率：10mm/s~25mm/s 灼热丝进入或贯穿试验样品深度：(7±0.5) mm 750℃glow wire contacts with mated connector, Contact Time: (30±1)s Speed of closing to and leaving from: 10mm/s~25mm/s Depth that glow wire penetrates mated connector: (7±0.5)mm GB/T 5169.10	1.试验样品燃烧时间不超过2s。 The time that mated connector burns should be not more than 2s. 2、灼热丝离开后的30s内样件无火焰或灼热情况，且无滴落物或滴落物不燃烧。 30s after glow wire leaves mated connector, it does not burn or is no incandescence and it does not fall something or falling something does not burn.
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Pb-free Wave soldering Temperture profile



图中： $T_1 > 150^{\circ}\text{C}$ $T_2 > 220^{\circ}\text{C}$ $T_3 = 250^{\circ}\text{C} \pm 2^{\circ}\text{C}$ $T_4 > 230^{\circ}\text{C}$ $T_5 < 80^{\circ}\text{C}$
 $dT_1 < 5^{\circ}\text{C}$ $dT_2 < 15^{\circ}\text{C}$ $t_1 > 60\text{s}$ $t_2 + t_3 > 3\text{s} \sim 5\text{s}$ $T_3 - T_1 < 100^{\circ}\text{C}$

波峰焊曲线图

产品名称 Product name	TJC6203 系列连接器	编号 Document No.	PS4144	版本号 Version No.	V9
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产品规格书

PRODUCT SPECIFICATION

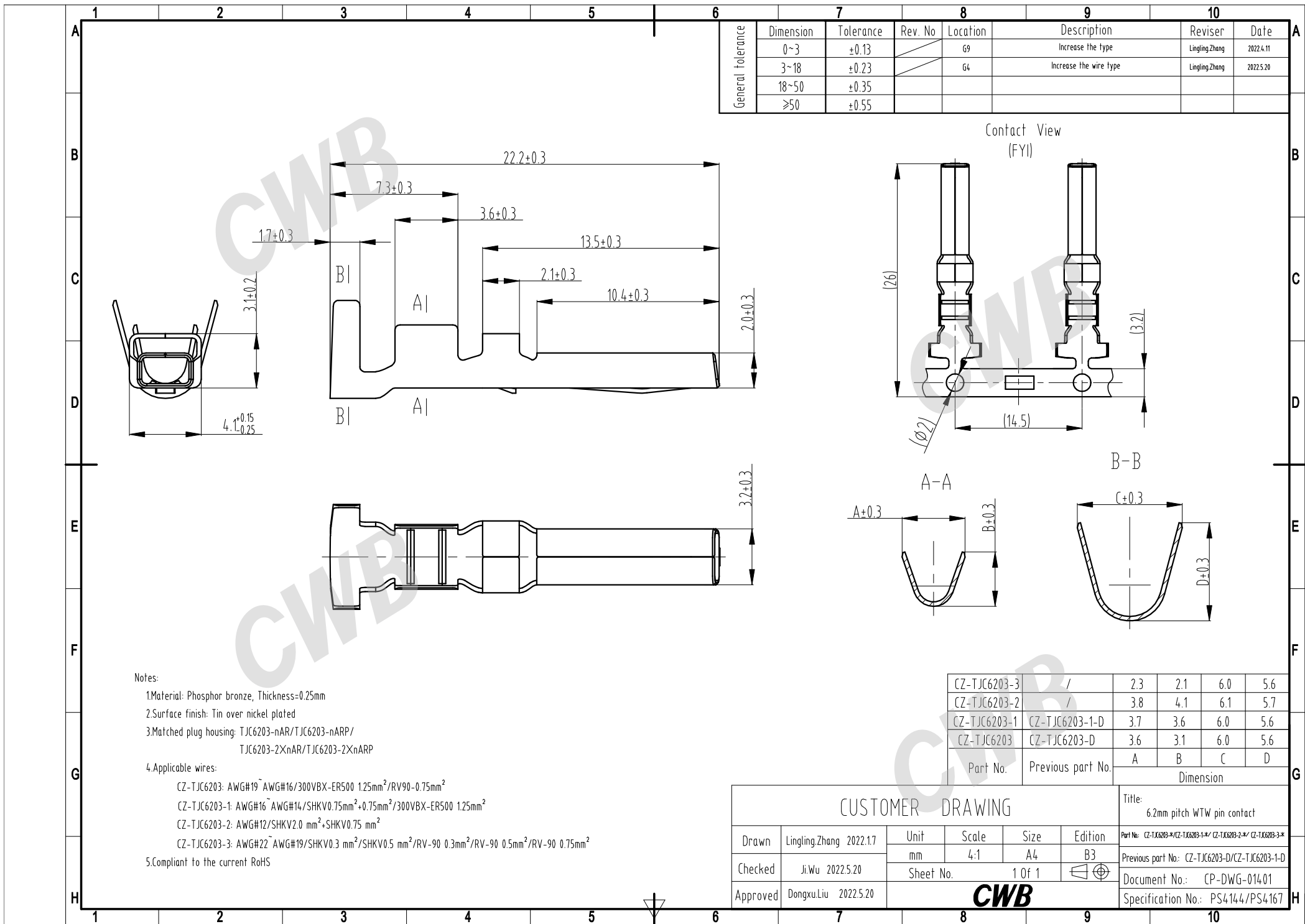
7.测试分组 Test sequences (Samples:5PCS)

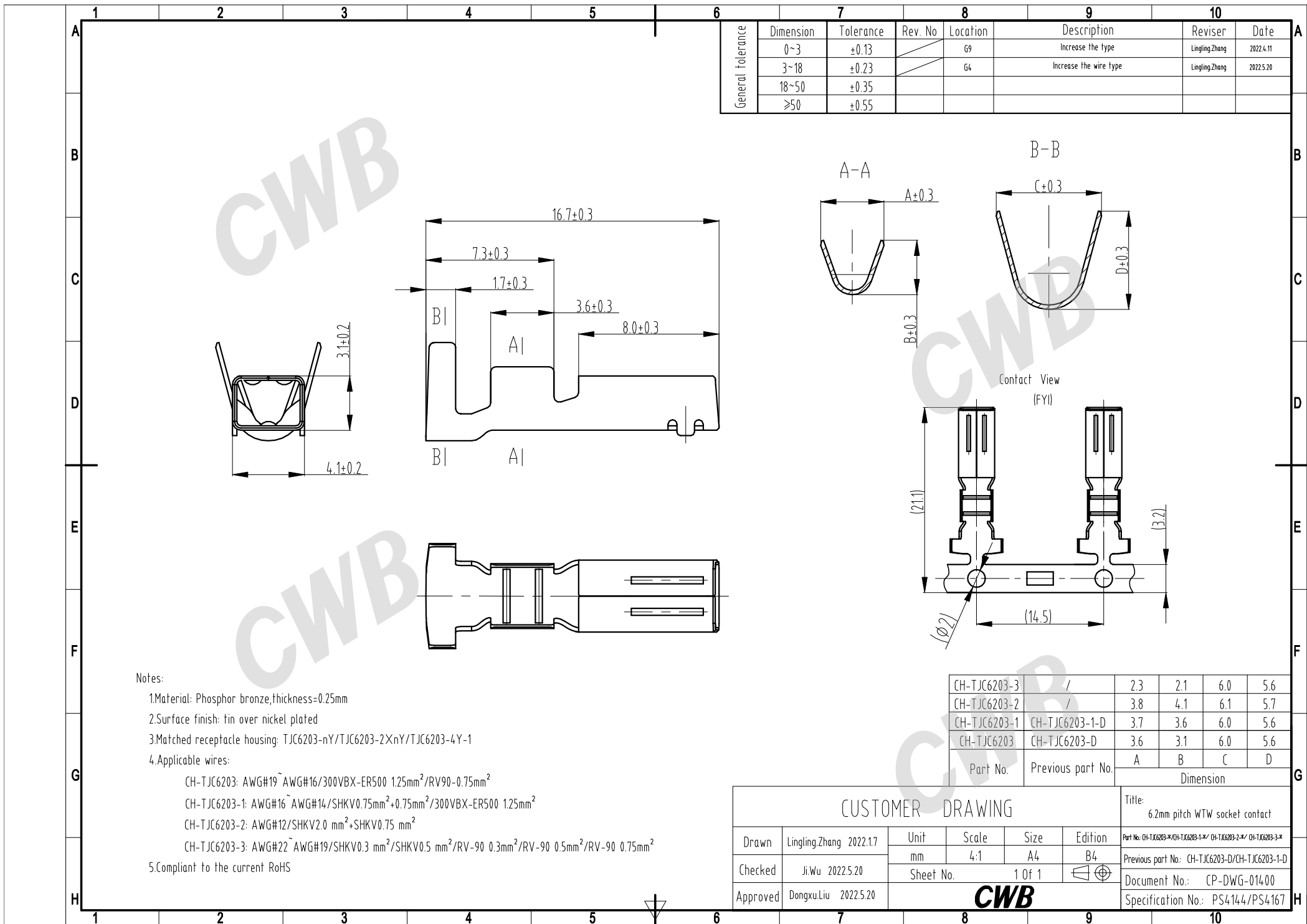
测试组 Group number	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U
外观 Appearance	1	1	1	1	1	1,5	1,3	1,5	1	1	1,3	1	1,7	1,7	1,7	1,5	1	1,3	1S	1, 3	1
端子的插入力与固定力 Insertion force and retention force for contact	2																				
针的固定力 Post retention force		2																			
锁扣强度 Lock strength			2											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

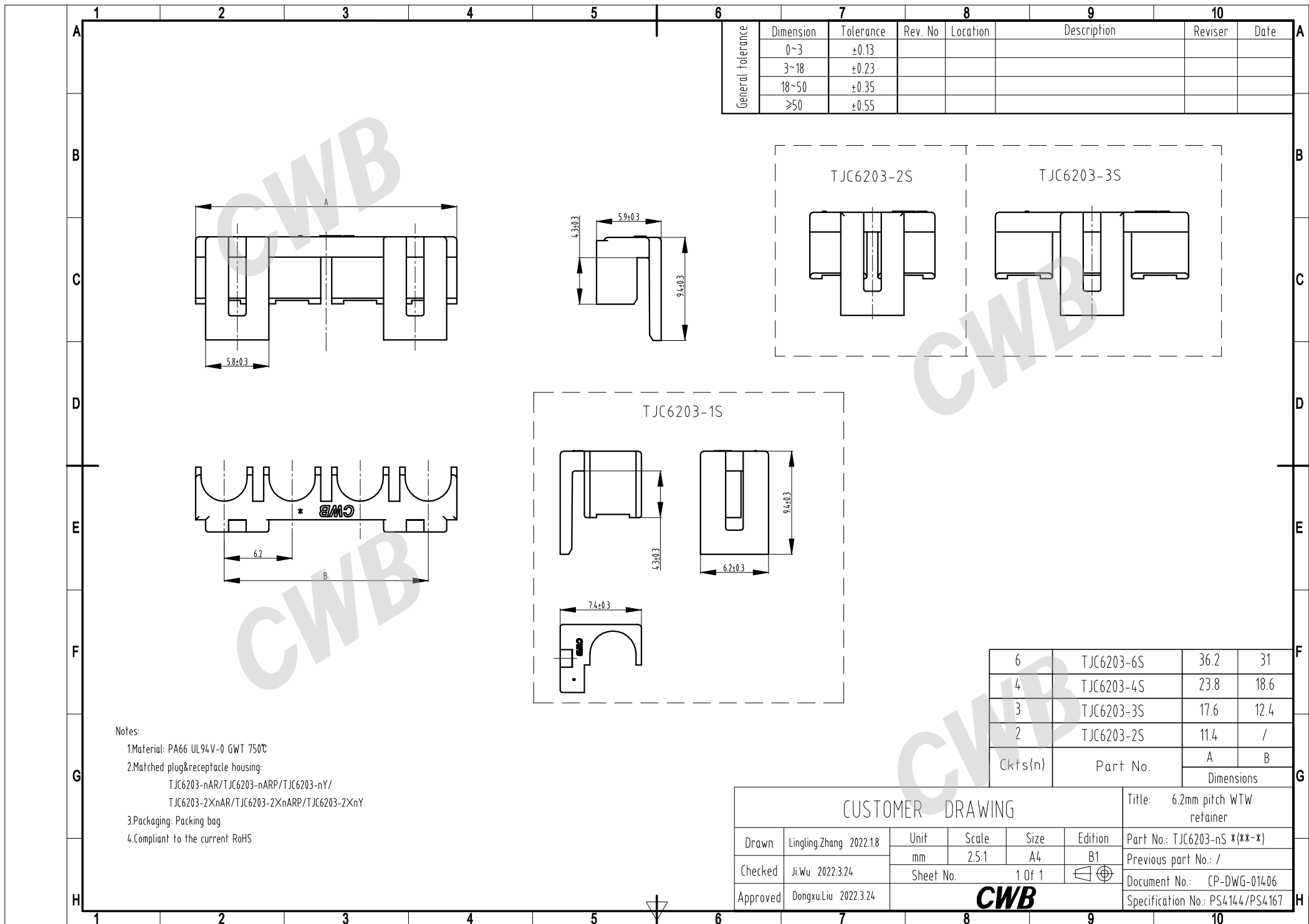
注：在进行机械振动和机械冲击试验时，同步测量电流瞬断。 IN THE MECHANICAL VIBRATION AND MECHANICAL SHOCK TEST, SYNCHRONOUS MEASUREMENT OF CURRENT TRANSIENT BREAK.

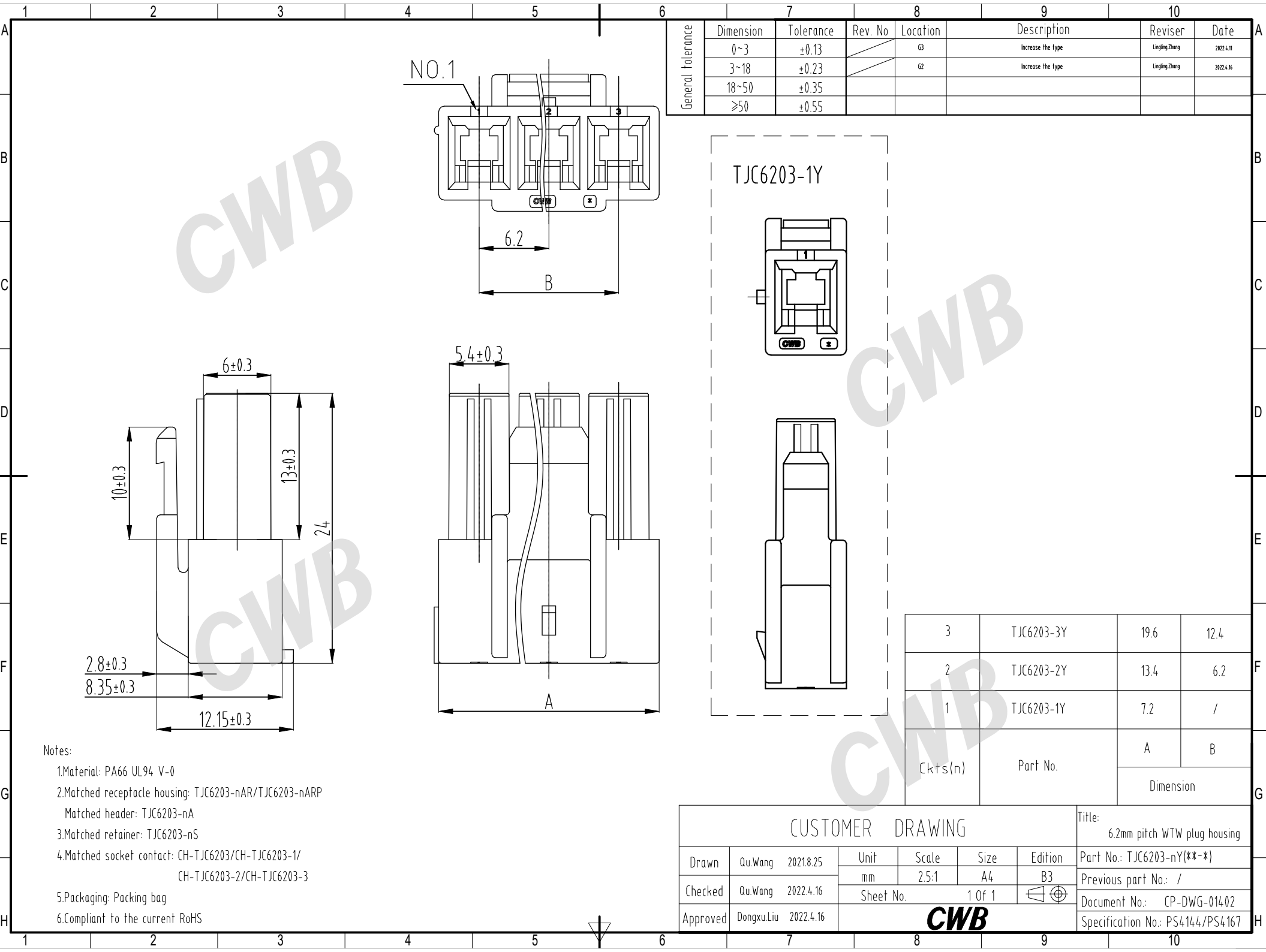
产品名称 Product name	TJC6203 系列连接器	编号 Document No.	PS4144	版本号 Version No.	V9
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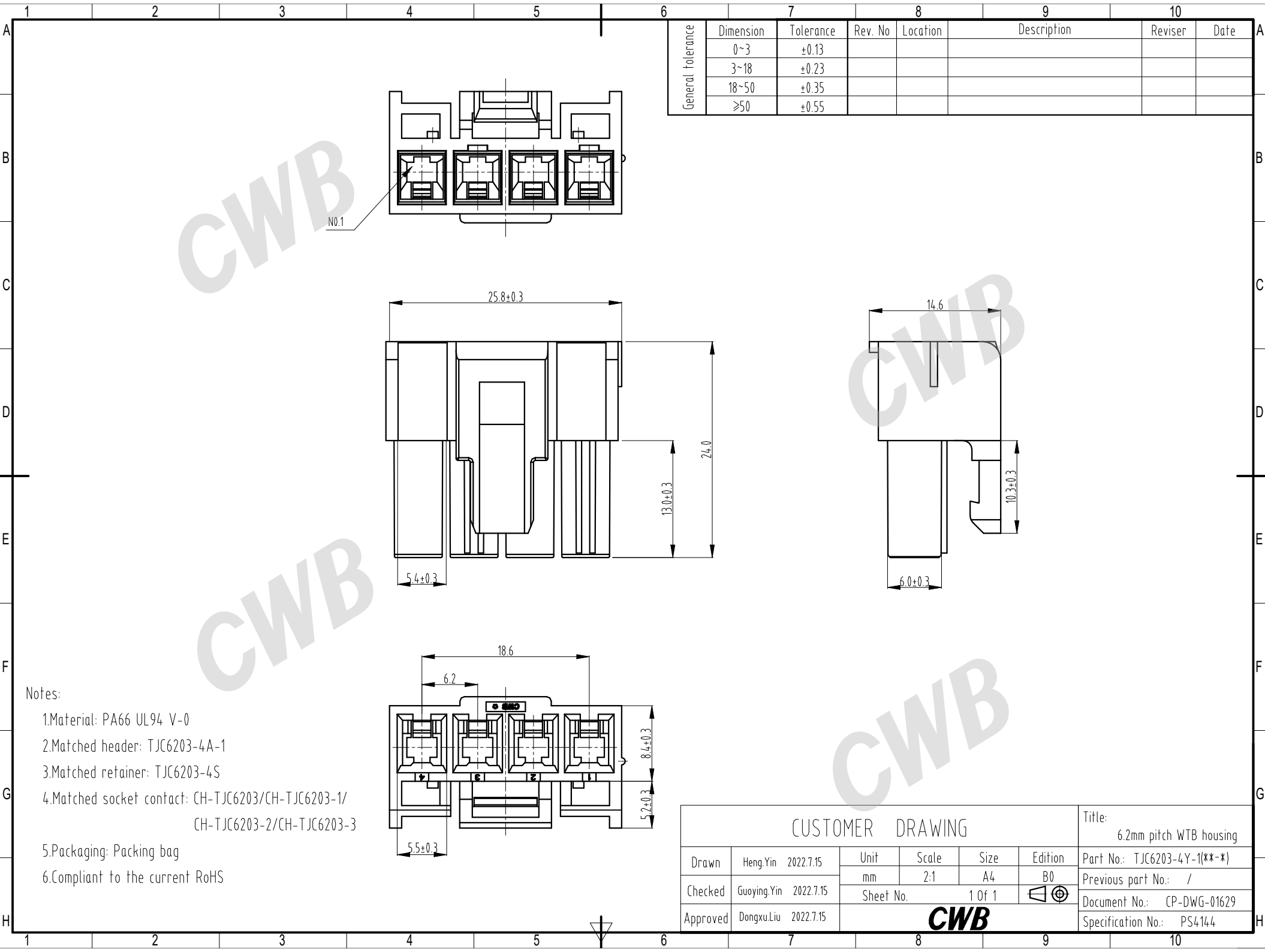
PAGE: 11 / 11



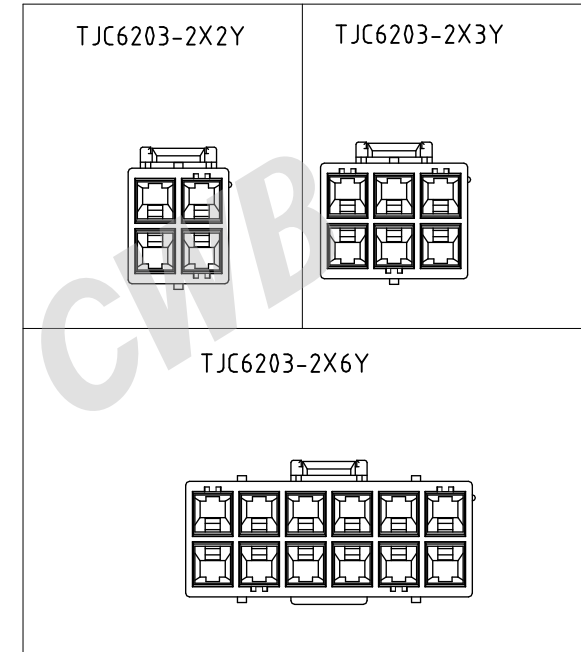
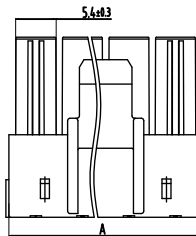
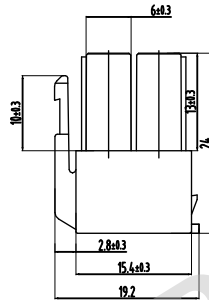
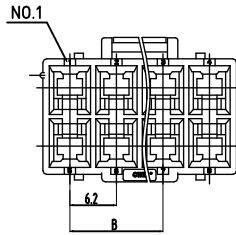








	1	2	3	4	5	6	7	8	9	10				
A						General Tolerance	Dimension	Tolerance	Rev. No	Location	Description	Reviser	Date	A
							0~3	±0.13		G3	Increase the type	Lingling.Zhang	2022.4.11	
							3~18	±0.23		F2	Increase the type	Lingling.Zhang	2022.4.16	
							18~50	±0.35						
							≥50	±0.55						

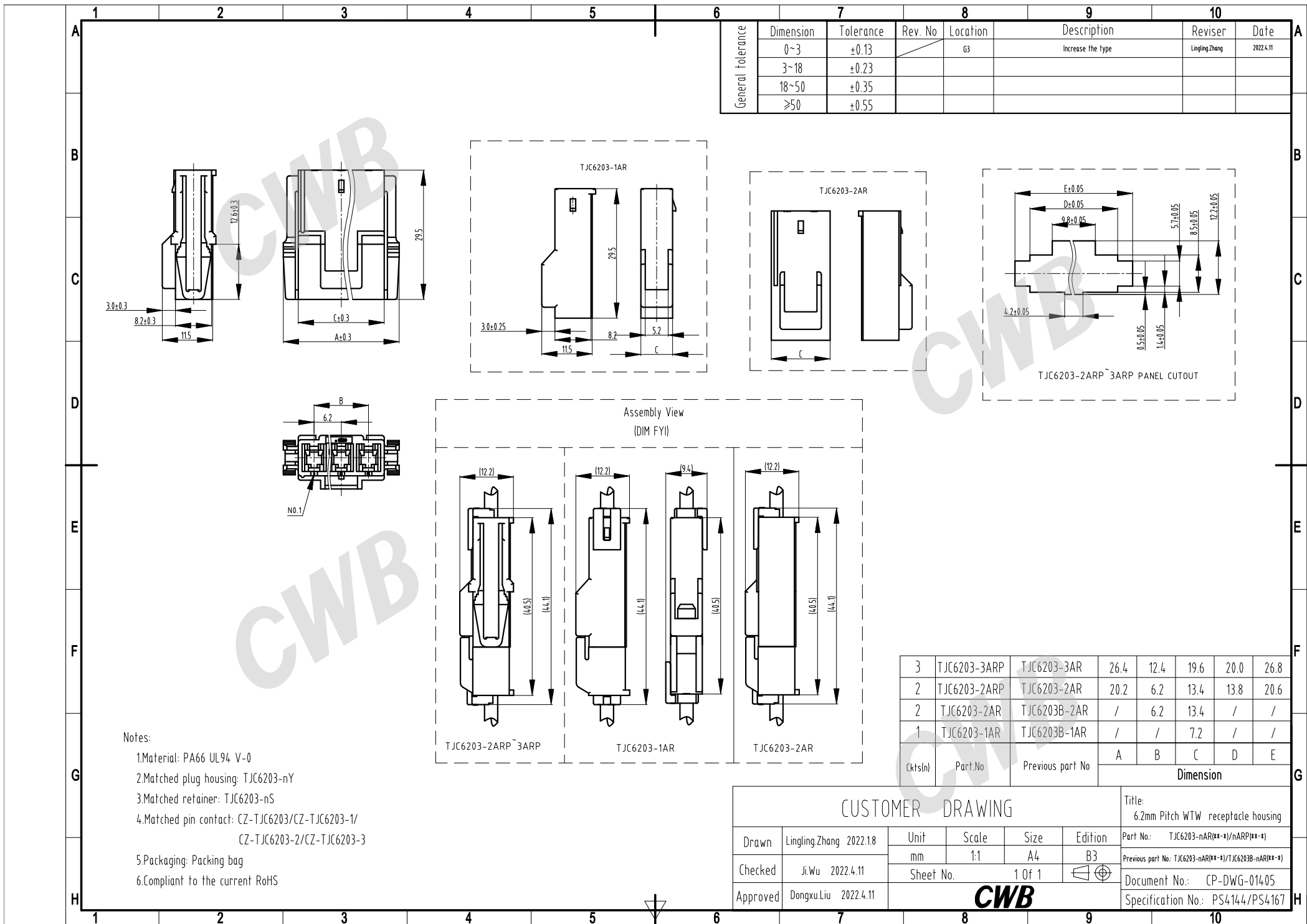


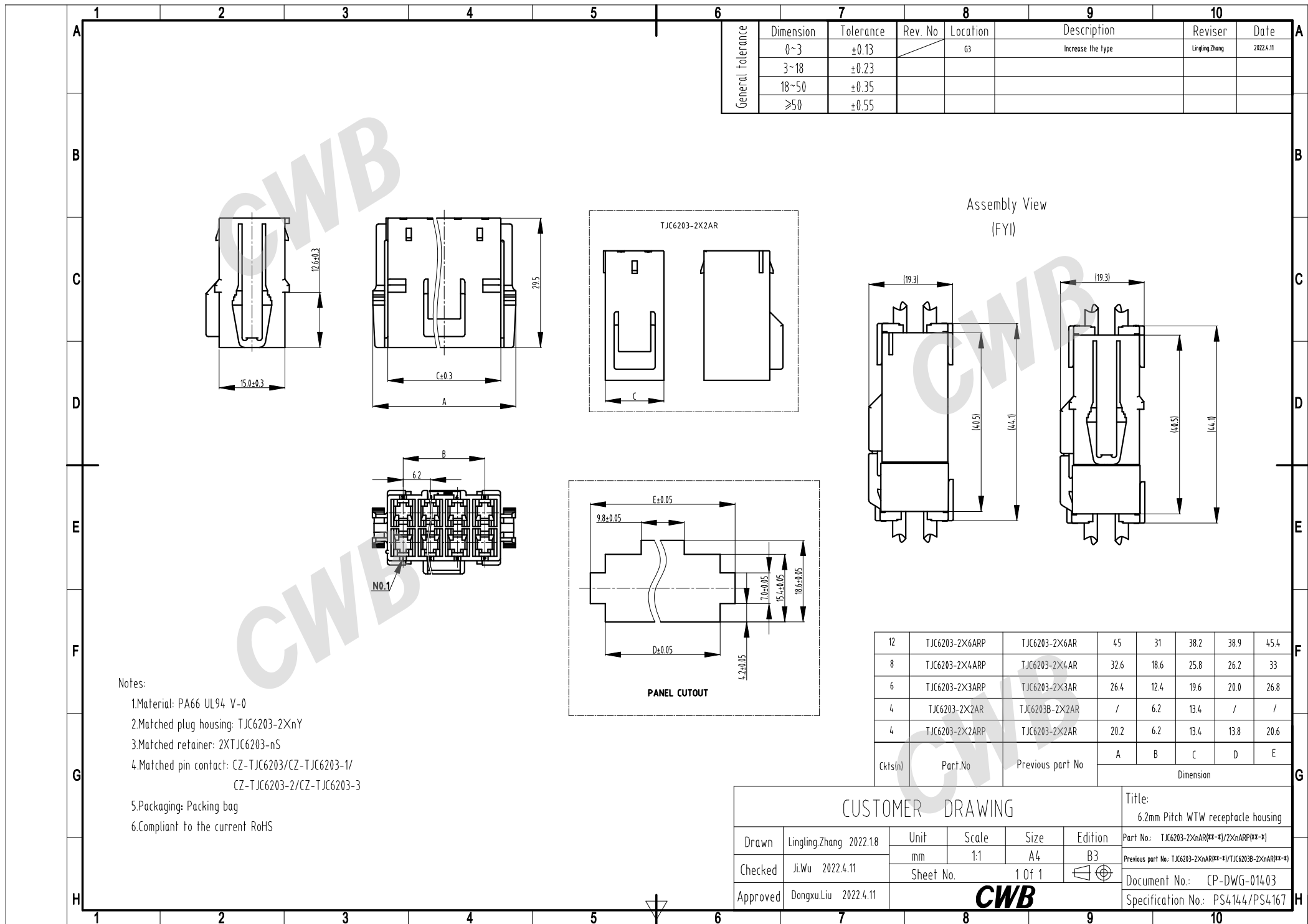
Notes:

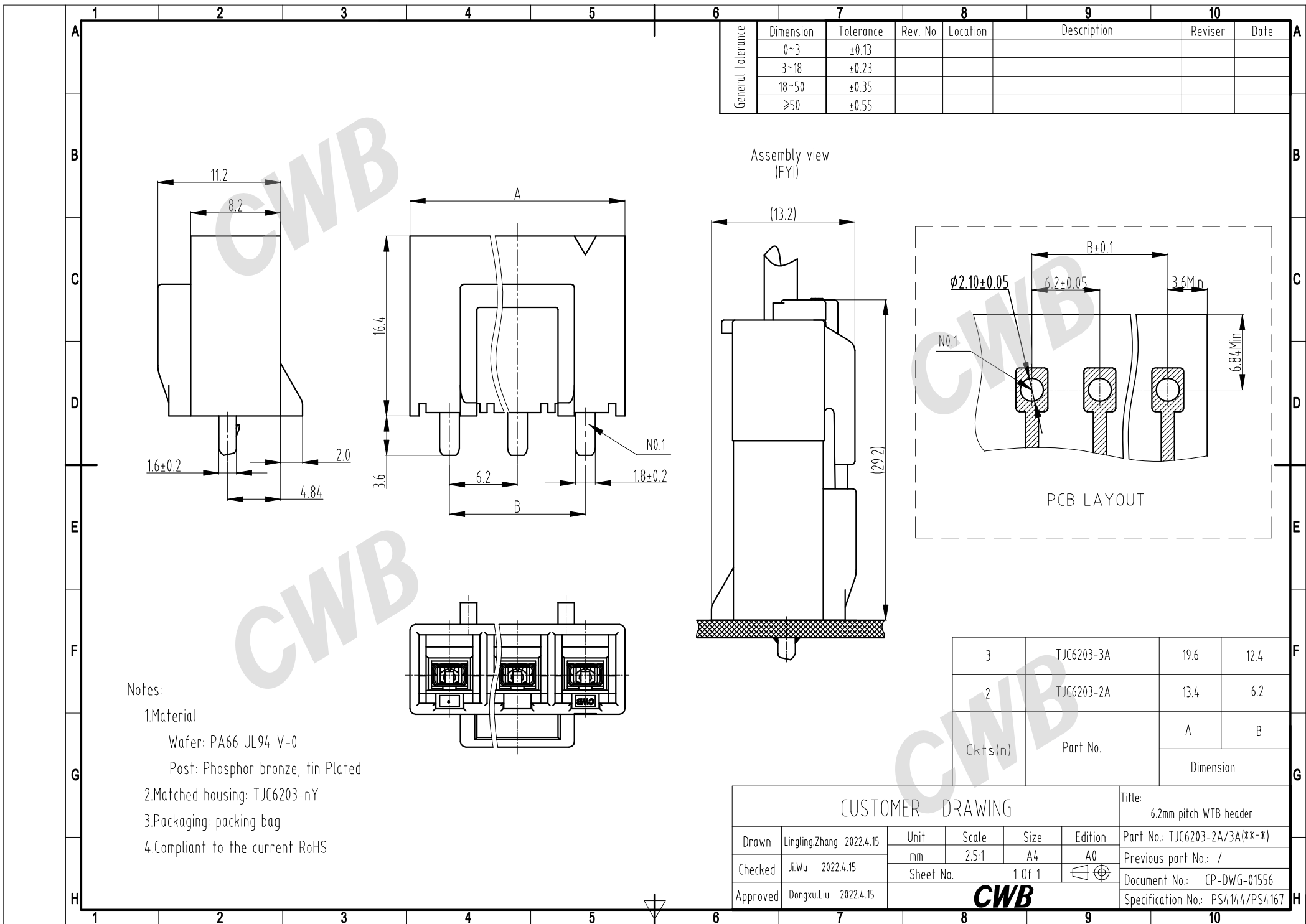
- Material: PA66 UL94 V-0
- Matched receptacle housing: TJC6203-2XnARP/TJC6203-2XnAR
Matched header: TJC6203-2XnA
- Matched retainer: 2XTJC6203-nS
- Matched socket contact: CH-TJC6203/CH-TJC6203-1/
CH-TJC6203-2/CH-TJC6203-3
- Packaging: Packing bag
- Compliant to the current RoHS

12	TJC6203-2X6Y	38.2	31
8	TJC6203-2X4Y	25.8	18.6
6	TJC6203-2X3Y	19.6	12.4
4	TJC6203-2X2Y	13.4	6.2
Ckts(n)	Part.No	A	B
		Dimension	

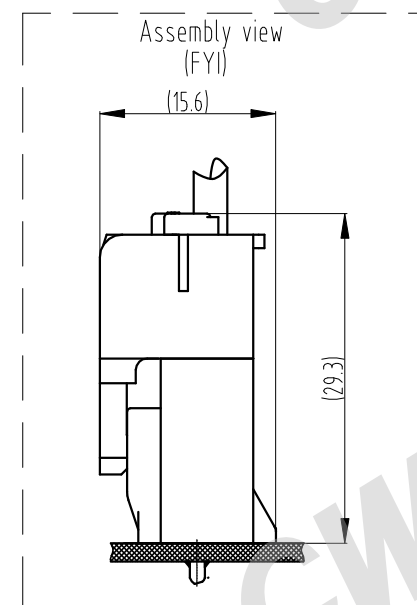
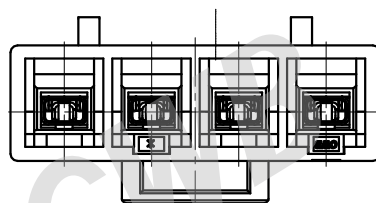
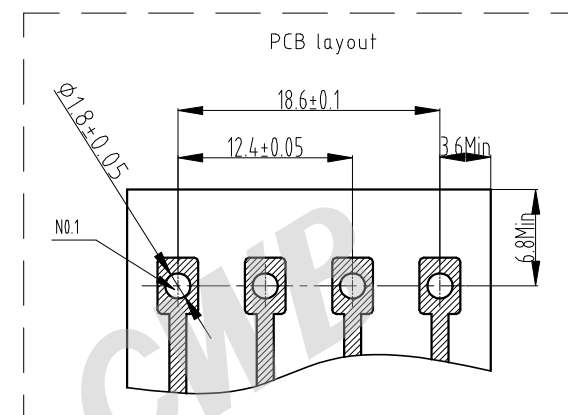
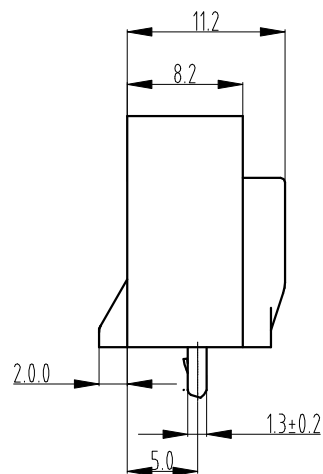
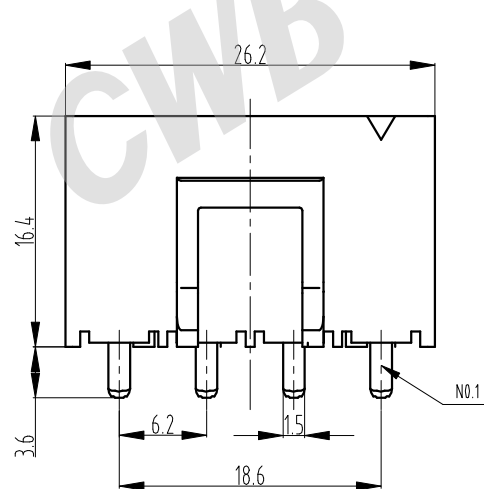
CUSTOMER DRAWING						Title: 6.2mm Pitch WTW plug housing	
Drawn	Lingling.Zhang 2022.1.7	Unit	Scale	Size	Edition	Part No.: TJC6203-2XnY(XX-*)	
		mm	1:1	A4	B3	Previous part No.: /	
Checked	Ji.Wu 2022.4.16	Sheet No.		1 Of 1			Document No.: CP-DWG-01404
Approved	Dongxu.Liu 2022.4.16	CWB				Specification No.: PS4144/PS4167	







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: PA66 UL94 V-0

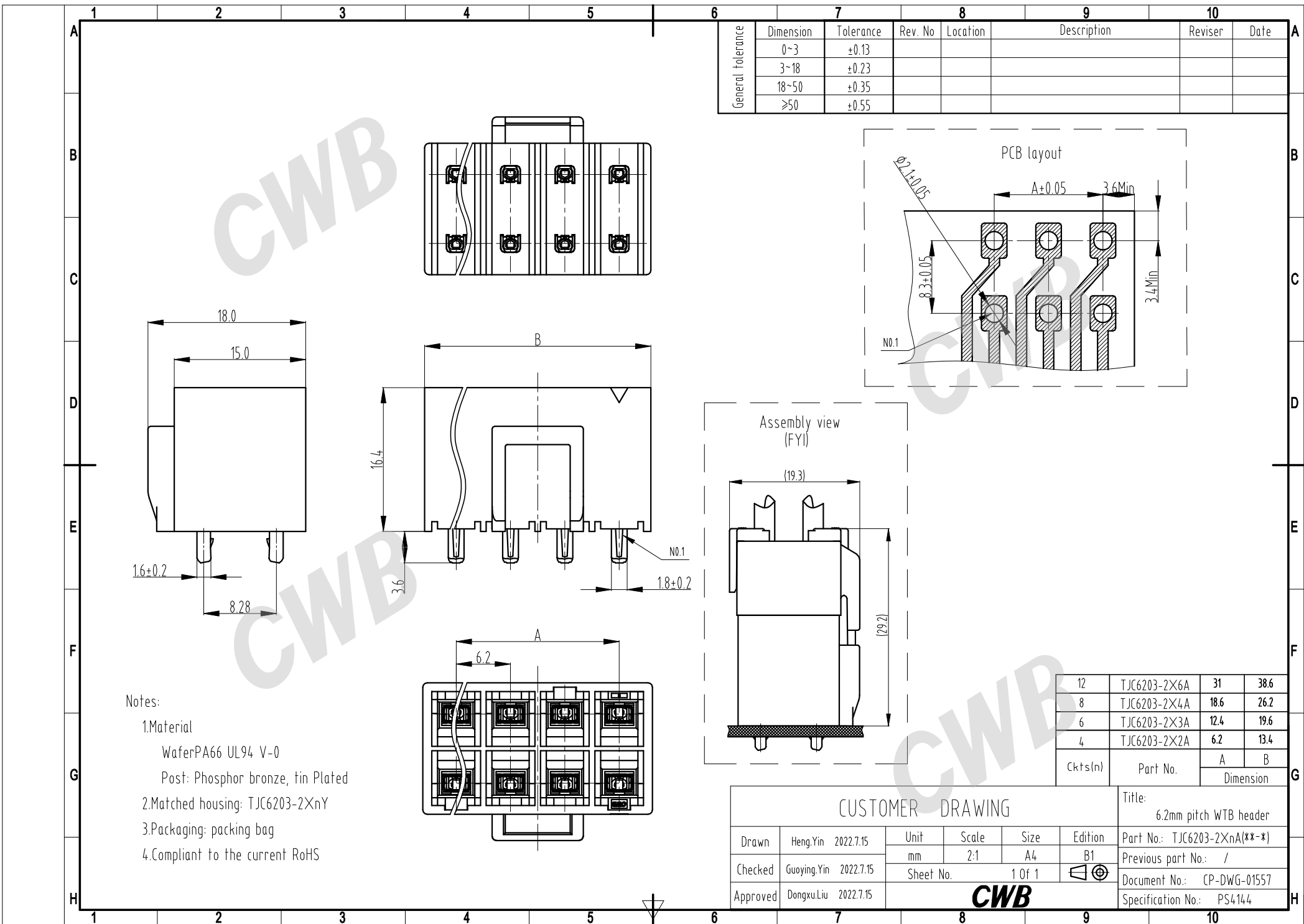
Post: Phosphor bronze, tin Plated

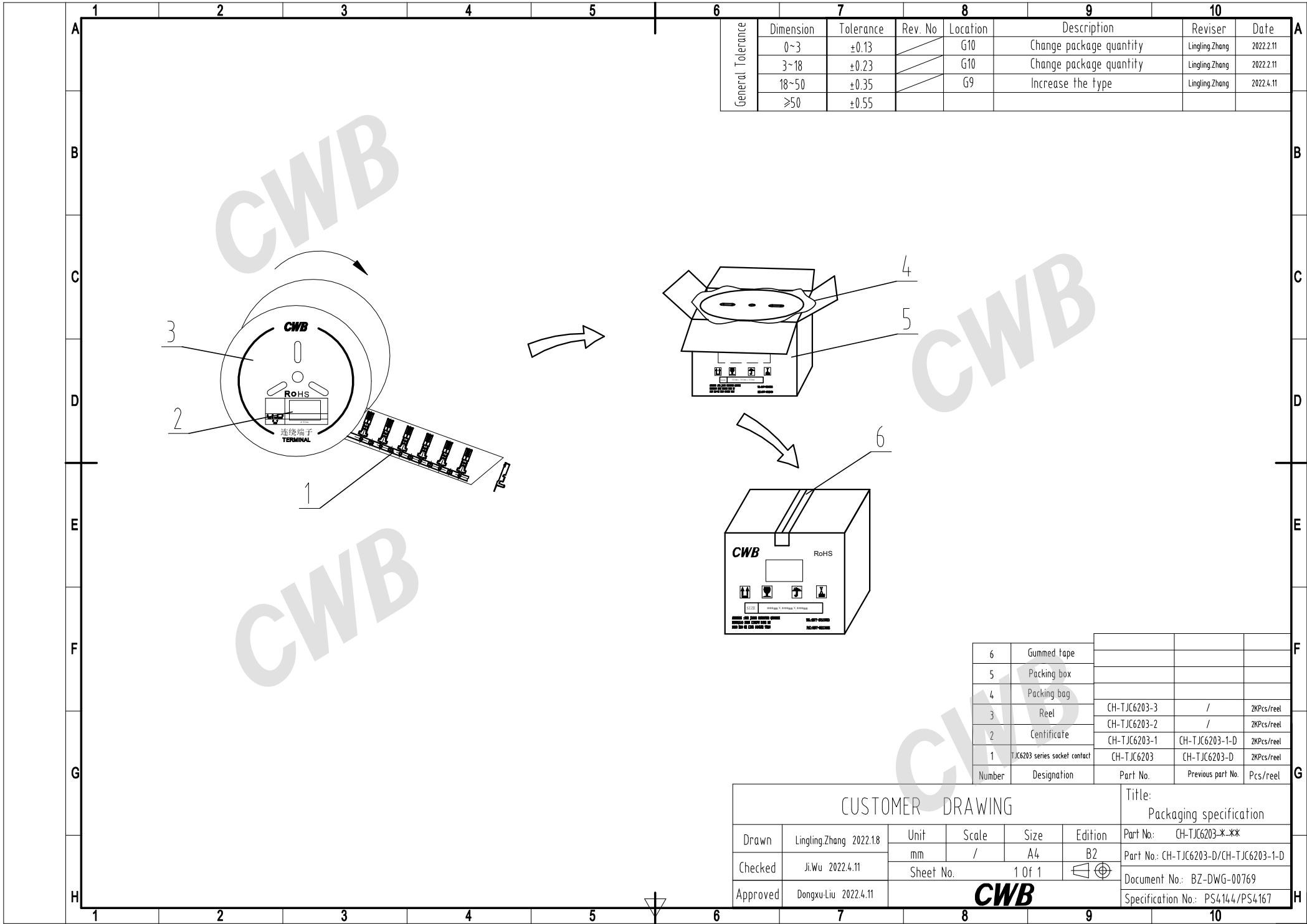
2.Matched housing: TJC6203-4Y-1

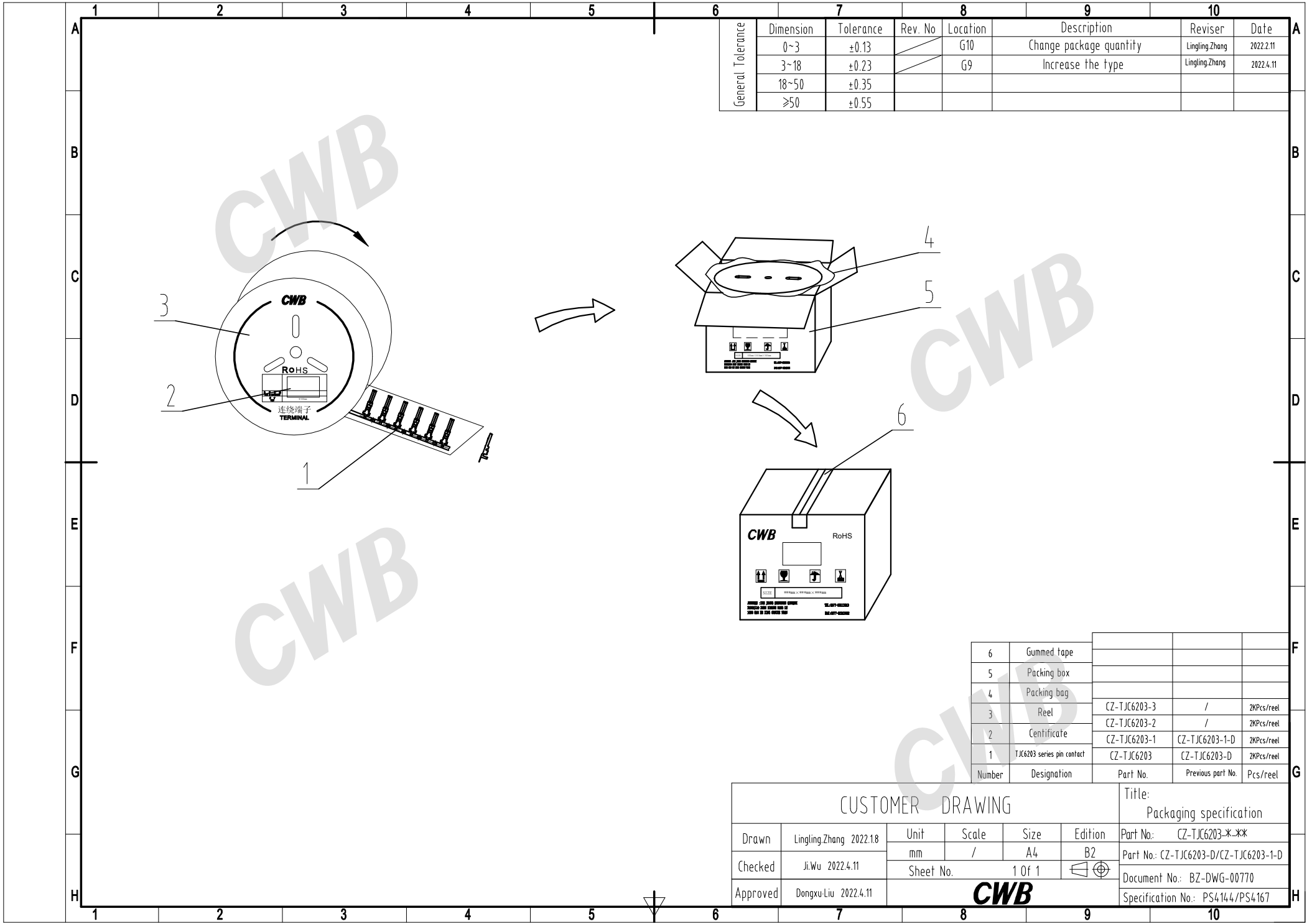
3.Packaging: packing bag

4.Compliant to the current RoHS

CUSTOMER DRAWING						Title: 6.2mm pitch WTB header	
Drawn	Heng.Yin	2022.7.15	Unit	Scale	Size	Edition	Part No.: TJC6203-4A-1(XX-X)
Checked	Guoying.Yin	2022.7.15	mm	2:1	A4	B0	Previous part No.: /
Approved	Dongxu.Liu	2022.7.15	Sheet No.	1 Of 1			Document No.: CP-DWG-01628
CWB							Specification No.: PS4144







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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

3

2

1

Packing box

5

4

CWB

RoHS

↑↑↑

↑↑↑

↑↑↑

↑↑↑

SIZE

1000mm x 1000mm x 1000mm

1000mm x 1000mm x 1000mm

1000mm x 1000mm x 1000mm

1000mm x 1000mm x 1000mm

5	Packing box			
4	Gummed tape	TJC6203-6S	/	1000
3	Packing bag	TJC6203-4S	/	1000
2	Certificate	TJC6203-3S	/	1000
1	TJC6203 series retainer	TJC6203-2S	/	1000
		TJC6203-1S	/	1000
Number	Designation	Part No.	Previous part No.	Pcs/bag

CUSTOMER DRAWING						Title: Packaging specification	
Drawn	Lingling.Zhang 2022.1.8	Unit	Scale	Size	Edition	Part No.: TJC6203-nS x(xx-x)	
Checked	Ji.Wu 2022.3.24	mm	/	A4	B1	Previous part No.: /	
Approved	Dongxu.Liu 2022.3.24	Sheet No.		1 Of 1		Document No.: BZ-DWG-00773	
CWB						Specification No.: PS4144/PS4167	

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

3

2

1

Packing box

5

4

CWB

RoHS

SIZE

ADDRESS: CHINA TIANJIN HONGYUAN CHINA

RECEIVED: 2022.12.28 14:00

TEL: 022-59574228

FAX: 022-59574228

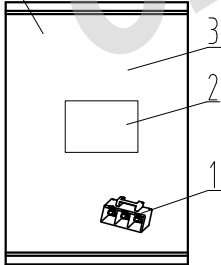
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4	Gummed tape	TJC6203-2X4ARP	TJC6203-2X4AR	200
3	Packing bag	TJC6203-2X3ARP	TJC6203-2X3AR	300
2	Centificate	TJC6203-2X2ARP	TJC6203-2X2AR	300
1	TJC6203 series plug housing	TJC6203-2X2AR	TJC6203B-2X2AR	300
		TJC6203-3ARP	TJC6203-3AR	300
		TJC6203-2ARP	TJC6203-2AR	500
		TJC6203-2AR	TJC6203B-2AR	500
		TJC6203-1AR	TJC6203B-1AR	1000
Number	Designation	Part No.	Previous part No.	Pcs/bag

CUSTOMER DRAWING						Title: Packaging specification	
Drawn	Lingling.Zhang 2022.1.8	Unit	Scale	Size	Edition	Part No.:TJC6203-nAR(##-#)/ZxnAR(##-#)	
Checked	Ji.Wu 2022.3.24	mm	/	A4	B2	Previous part No.: TJC6203-nAR(##-#)/TJC6203B-nAR(##-#)	
Approved	Dongxu.Liu 2022.3.24	Sheet No.		1 Of 1		TJC6203-2XnAR(##-#)/TJC6203B-2XnAR(##-#)	
CWB						Document No.: BZ-DWG-00772	
						Specification No.: PS4144/PS4167	

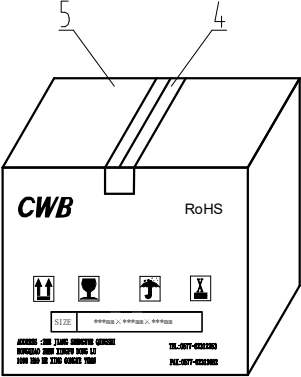
	1	2	3	4	5	6	7	8	9	10				
A						General Tolerance	Dimension	Tolerance	Rev. No	Location	Description	Reviser	Date	A
							0~3	±0.13						
							3~18	±0.23						
							18~50	±0.35						
							≥50	±0.55						
B														B
C														C
D														D
E														E
F														F
G					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

Packing bag

Sealed



Packing box



5	Packing box	TJC6203-2X6A	/	300
4	Gummed tape	TJC6203-2X4A	/	300
3	Packing bag	TJC6203-2X3A	/	400
2	Certificate	TJC6203-2X2A	/	500
1	TJC6203 series header	TJC6203-4A-1	/	500
		TJC6203-3A	/	500
		TJC6203-2A	/	500
Number	Designation	Part No.	Previous part No.	Pcs/bag

CUSTOMER DRAWING						Title: Packaging specification	
Drawn	Lingling.Zhang 2022.4.15	Unit	Scale	Size	Edition	Part No.: TJC6203-nAX(XX-X)/2XnA(XX-X)	
Checked	Guoying.Wang 2022.7.20	mm	/	A4	A0	Previous part No.: /	
Approved	Dongxu.Liu 2022.7.20	Sheet No.		1 Of 1			Document No.: BZ-DWG-00841
						Specification No.: PS4144/PS4167	

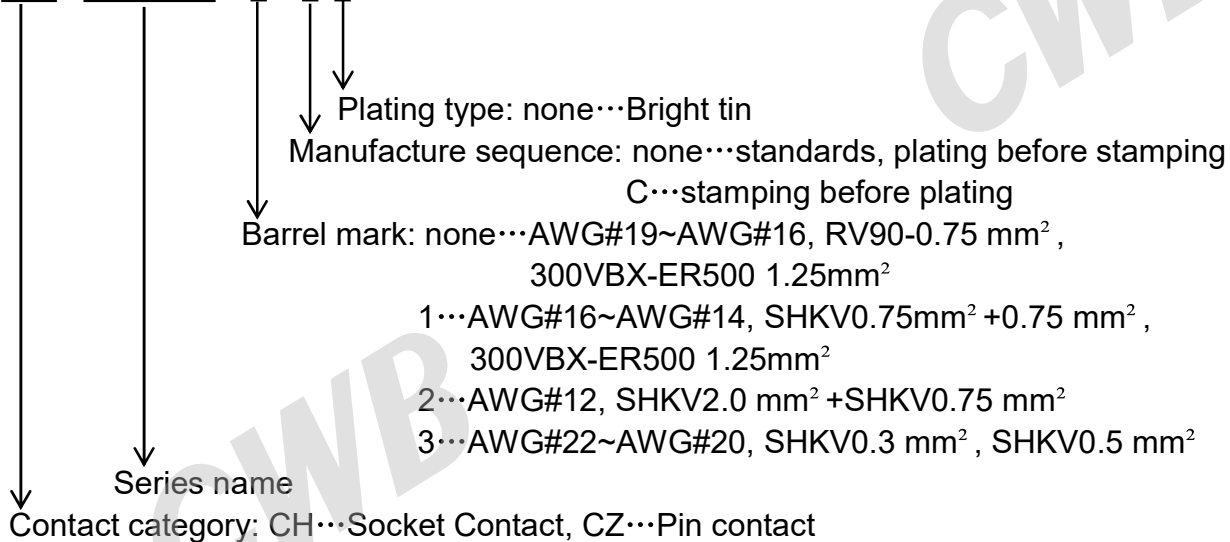
TJC6203 系列命名规则

TJC6203 series naming conventions

1. Contact

CH-TJC6203-**, CH-TJC6203-1-**, CH-TJC6203-2-**, CH-TJC6203-3-**,
CZ-TJC6203-**, CZ-TJC6203-1-**, CZ-TJC6203-2-**, CZ-TJC6203-3-**

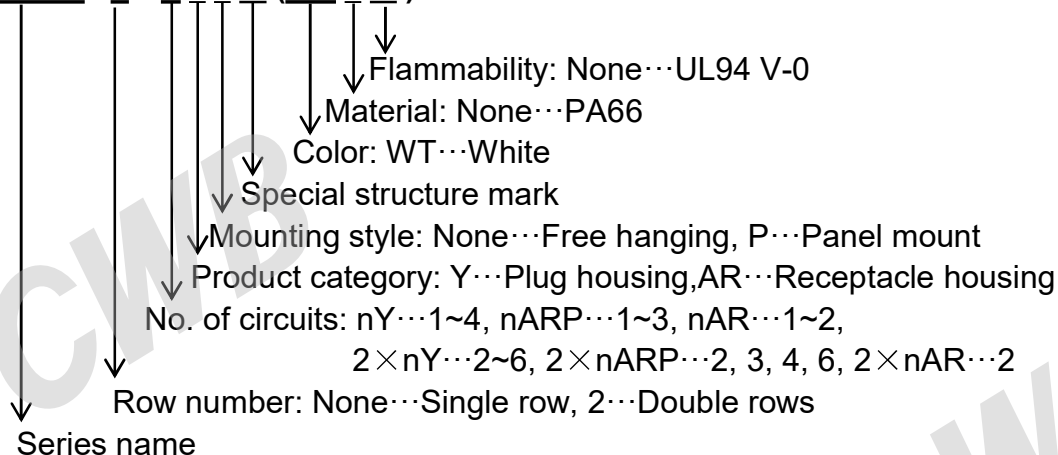
CH - TJC6203 - * - * *



2. Housing

TJC6203-nY(**-*), TJC6203-4Y-1, TJC6203-nARP(**-*), TJC6203-nAR(**-*)
TJC6203-2×nY(**-*), TJC6203-2×nARP(**-*), TJC6203-2×nAR(**-*)

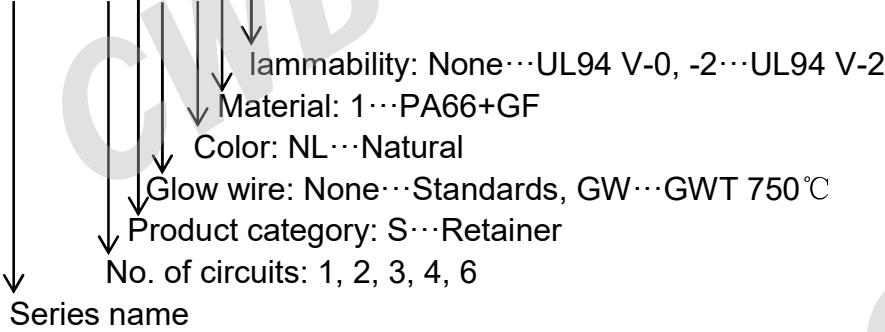
TJC6203 - 2 × n * * * * (WT * - *)



3. Retainer

TJC6203-nS (**-*)

TJC6203-n S * (* * -*)



4. Header

TJC6203-nA(**-*), TJC6203-4A-1, TJC6203-2×nA(**-*)

TJC6203 -2×n A -* (WT * -*)

