

标题: TJC50023 系列连接器

Title: TJC50023 Connector

目录

Index

1. 更改履历 Change record
2. 范围 Scope
3. 产品描述 Product description
4. 相关标准 Related standards
5. 参数范围 Parameter ratings
6. 产品性能 Performance
7. 测试分组 Test sequences

中国·浙江省乐清市虹桥镇幸福东路 1098 号 合兴工业园 1098, Xingfu `Road(East), CWB Industrial Zone, Hongqiao, Yueqing, Zhejiang 325608, China Tel: 86-577-61313157 (Research & Development Dept) Tel: 86-577-62312253 (Sales Dept)	制定 Edit: <u>路欢 2022.4.2</u>	产品名称 Product name: <u>TJC50023 系列</u>
	审核 Check: <u>王曲 2022.4.2</u>	编号 Document No.: <u>PS4163</u>
	批准 Approval: <u>刘冬旭 2022.4.2</u>	版本 Revision: <u>V0</u>



# 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	/	First release	路欢 2022/4/2

产品名称 Product name	TJC50023 系列	编号 Document No.	PS4163	版本号 Version No.	V0
----------------------	-------------	--------------------	--------	--------------------	----



# 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 WTW 5.0 阴型 & 阳型电子连接器，产品名称：TJC50023。

This product specification covers the requirement for wire to wire 5.0mm pitch Receptacle & Plug connector, which are designed and manufactured by CWB Electronics(ZheJiang) Co.,LTD. P/N: TJC50023.

### 3.产品描述 Product description

TJC50023 系列产品为家电连接器产品，产品部件组成如下：

The TJC50023 series connector designed for home appliances connection. part checklist as following form:

Part name	Part No.	Description
条形连接器针座(面板安装, 含锁紧片保持结构, 双排) Receptacle housing(Panel mount, Retainer mountable type, Double rows)	TJC50023-2ARP(**-*)	PA66 UL94 V-0
条形连接器针座(含锁紧片保持结构, 双排) Receptacle housing(Retainer mountable type, Double rows)	TJC50023-2AR(**-*)	PA66 UL94 V-0
条形连接器针座(面板安装, 含锁紧片保持结构, 双排) Receptacle housing(Panel mount, Retainer mountable type, Double rows)	TJC50023-2×nARP(**-*)	PA66 UL94 V-0
锁紧片 Retainer	TJC50023-nS (**-*)	PA66+GF UL94 V-0 GWT 750°C
条形连接器孔座(含锁紧片保持结构, 带外锁扣, 双排) Plug housing(Retainer mountable type, W/Lock, Double rows)	TJC50023-2Y(**-*)	PA66 UL94 V-0
条形连接器孔座(含锁紧片保持结构, 带外锁扣, 双排) Plug housing(Retainer mountable type, W/Lock, Double rows)	TJC50023-2×nY(**-*)	PA66 UL94 V-0
插簧 Socket contact	CH-TJC50023-**	AWG#18~AWG#16
插簧 Socket contact	CH-TJC50023-1-**	AWG#24~AWG#20
插针 Pin contact	CZ-TJC50023-**	AWG#18~AWG#16
插针 Pin contact	CZ-TJC50023-1-**	AWG#24~AWG#20

### 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，则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，则本规格书为优先。

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 电工电子产品环境试验 第一部分 总则

产品名称 Product name	TJC50023 系列	编号 Document No.	PS4163	版本号 Version No.	V0
----------------------	-------------	--------------------	--------	--------------------	----



# 产品规格书

## PRODUCT SPECIFICATION

GB/T 2423	Testing method for environmental of electrical connectors Class 1: General principles 电工电子产品环境试验方法
GB/T 2424	Testing method for environmental of electrical connectors 电工电子产品环境试验导则
GB/T 5095	Testing method for environmental of electrical connectors 电子设备用机电元件基本试验规程及测量方法
EIA-364	Testing procedure/method for components of electric equipment EIA-364 系列标准 EIA-364 series standards

产品符合 RoHS 标准。

The product should comply with RoHS.

### 5.参数范围 Parameter ratings:

额定电流 [AC(有效值)/DC] Rated current [AC(rms)/DC]	No. of poles	AWG#16	AWG#18	AWG#20	AWG#22	AWG#24
	2	10A Max.	6A Max.	5A Max.	4A Max.	3A Max.
	4	9A Max.	5A Max.	4A Max.	3A Max.	3A Max.
	6	8A Max.	4A Max.	3A Max.	3A Max.	2A Max.
	8	6A Max.	4A Max.	3A Max.	3A Max.	2A Max.
	12	6A Max.	4A Max.	3A Max.	3A Max.	2A Max.
	16	5A Max.	3A Max.	4A Max.	2A Max.	1A Max.
适用面板 Applicable panel	Board thickness:0.7mm-2.4mm					
额定电压[AC(有效值)/DC] Rated voltage [AC(rms)/DC]	300V					
使用温度范围（包含温升） Operating temperature range (includetemperature rise)	-25℃~+90℃					
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)	CZ-TJC50023 CH-TJC50023	Wire size:AWG#18~AWG#16 (0.75mm <sup>2</sup> -1.25 mm <sup>2</sup> ) Insulation diameter: φ 1.9mm- φ 3.1mm				
		Wire size:AWG#22+AWG#22~AWG#20+ AWG#20 (0.3mm <sup>2</sup> +0.3mm <sup>2</sup> -0.50mm <sup>2</sup> +0.50mm <sup>2</sup> ) Insulation diameter: φ 1.7mm+ φ 1.7mm - φ 2.0mm+ φ 2.0mm (The crimping parameters comply with the requirements of the crimping manufacturer)				
	CZ-TJC50023-1 CH-TJC50023-1	Wire size:AWG#24~AWG#20 (0.20mm <sup>2</sup> -0.52mm <sup>2</sup> ) Insulation diameter: φ 1.4mm- φ 1.8mm				
产品名称 Product name	TJC50023 系列	编号 Document No.	PS4163	版本号 Version No.	V0	

### 6. 产品性能 Performance

#### 6.1 机械性能 Mechanical

序号 No.	项 目 Item	测试条件 Test condition	规 格 Requirement		
6.1.1	外观 Appearance	目测 Checking by eyes 视力: 1.0 以上 Eyesight: > 1.0 照明: (200~300) lx Lamp: (200~300) lx 目测距离: (0.3~0.5) m Space: (0.3~0.5) m <b>GB/T 5095.1 Method 1a</b>	1. 塑料件表面应无明显疤痕、凹陷、开裂及影响使用的变形。 Plastic part: smooth and flat surface without discolor, broken, crack, and distortion, etc. 2. 金属件表面无锈蚀、氧化、无明显的机械损伤及电镀层脱落等缺陷。 Metal part: bright and even surface without rust, oxide, fog and obvious physical damage, etc.		
6.1.2	端子插入力与固定力 Insertion force and retention force for terminal	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:25mm/min) 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.) <b>GB/T 5095.8 Method 15d / EIA-364-29B</b>	插入力: ≤6.9N 固定力: ≥29.4N Insertion force: ≤6.9N Retention force: ≥29.4N		
6.1.3	插簧与插针的插拔力 Insertion and withdrawal force for pin in the contact	固定连接器和/或测力计, 在端子轴线方向将插针插入和拔出插簧, 测试速度不大于 25 mm/min。 Insert the pin contact into and pull out the socket contact in the direction of the terminal axis (Testing speed: <25 mm/min.) <b>GB/T 5095.8 Method 16e / EIA-364-13B</b>	插入力: ≤6.9N 拔出力: ≥1.5N Insertion force: ≤6.9N Withdrawal force: ≥1.5N		
6.1.4	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, 测试速度不大于 25 mm/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.) <b>GB/T5095.8 Method 16d / EIA-364-08B</b>	AWG#16: 98.0 N Min. AWG#18: 78.4 N Min. AWG#20: 63.7 N Min. AWG#22: 44.1 N Min. AWG#24: 29.4 N Min.		
6.1.5	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, 测试速度不大于25 mm/min。 A housing with crimped contacts and a receptacle housing shall be mated and unmated on the mating axis. Initial insertion and withdrawal forces (Testing speed: <25 mm/min.) <b>GB/T 5095.7 Method 13b / EIA-364-13B</b>	No. of poles	首次插入力 Insertion (1st) Max.	首次拔出力 Withdrawal (1st) Min.
			2	13.8N	3.0N
			4	27.6N	6.0N
			6	41.4N	9.0N
			8	55.2N	12.0N
			12	82.8N	18.0N
			16	110.4N	24.0N
产品名称 Product name	TJC50023 系列	编号 Document No.	PS4163	版本号 Version No.	V0

6.1.6	机械振动 Vibration	<p>插入连接器，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。</p> <p>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.</p> <p>Frequency: (10~55~10)Hz/min.</p> <p>Cycling time: 1 min.</p> <p>Amplitude: 1.52mm.</p> <p><b>GB/T 5095.4 Method 6d / EIA-364-28D</b></p>	<p>外观：无损伤（参照6.1.1）</p> <p>Appearance: no damage.( refer to 6.1.1)</p> <p>接触电阻：10mΩ Max.</p> <p>Contact resistance: 10mΩ Max.</p> <p>电流中断时间：1μsec Max</p> <p>Current interruption: 1μsec Max</p>
6.1.7	机械冲击 Shock	<p>连接器相配，沿XYZ三轴正反方向各冲击3次（总共18次），在测试过程中通以100mA电流。</p> <p>冲击强度：490m/s<sup>2</sup></p> <p>持续时间：11ms</p> <p>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).</p> <p>Test pulse: 490m/s<sup>2</sup></p> <p>Duration: 11ms</p> <p><b>GB/T 5095.4 Method 6c / EIA-364-27B</b></p>	<p>外观：无损伤（参照6.1.1）</p> <p>Appearance: no damage.( refer to 6.1.1)</p> <p>电流中断时间：1μsec Max</p> <p>Current interruption: 1μsec Max</p>
6.1.8	机械寿命 Durability	<p>以每分钟 10 次的速度插拔 50 次。</p> <p>50 cycles for mating and unmating test at the speed of 10 cycles per minute.</p> <p><b>GB/T 5095.5 Method 9a / EIA-364-09C</b></p>	<p>外观：无损伤（参照6.1.1）</p> <p>Appearance: no damage.( refer to 6.1.1)</p> <p>接触电阻：10mΩ Max.</p> <p>Contact resistance: 10mΩ Max.</p>
6.1.9	锁扣强度 Lock strength	<p>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。</p> <p>Apply axial withdraw force on the connector which without contact or the contacts shall not affect lock strength at a ate less than 25 mm/min.</p> <p><b>GB/T 5095.8 Method 15a / EIA-364-29B</b></p>	<p>2pin:24.5N Min.</p> <p>4pin~16pin:29.4N Min.</p>

## 6.2 电气性能 Electrical

序号 No.	项 目 Item	测试条件 Test condition	规格 Requirement
6.2.1	接触电阻 Contact resistance	<p>插配阴阳连接器后，用小功率电路进行测试。</p> <p>Mate connectors with dry circuit to test contact resistance</p> <p><b>GB/T 5095.2 Method 2a / EIA-364-23B</b></p>	<p>7mΩ Max. (Initial)</p> <p>10mΩ Max. (Final)</p>
6.2.2	绝缘电阻 Insulation resistance	<p>在相邻接触件之间或地线之间，用 500V DC 电压进行测试。</p> <p>Apply a voltage of 500V DC between adjacent contacts and between contacts to ground.</p> <p><b>GB/T 5095.2 Method 3a / EIA-364-21C</b></p>	<p>1000 MΩ Min. ( Initial)</p> <p>500 MΩ Min. (Final)</p>
6.2.3	耐电压 Withstand voltage	<p>相邻接触件之间或地线之间施加 1500V AC (有效值)，漏电流 1mA 的电压作用，时间 1min。</p> <p>Apply a voltage of 1500V AC (rms) and leakage current of 1mA between adjacent contacts or ground cables for 1 minute.</p> <p><b>GB/T 5095.2 Method 4a / EIA-364-20B</b></p>	<p>外观：无击穿和飞弧现象</p> <p>Appearance: no breakdown or flashover</p>

产品名称 Product name	TJC50023 系列	编号 Document No.	PS4163	版本号 Version No.	V0
----------------------	-------------	--------------------	--------	--------------------	----



# 产品规格书

## PRODUCT SPECIFICATION

6.2.4	温升 Temperature rise	插入连接器，通以最大允许电流，测温度的差值 Mate connectors and measure the temperature rise of contact when the maximum AC rated current is passed. <b>GB/T 5095.3 Method 5a / EIA-364-70A</b>	Δ30°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(85±2)℃的空气中放置 240 小时，再回到室温中放置(1~2)小时测定。 Mated connectors exposed to the condition of (85±2)℃ for 240 hours, recovery time (1~2) hours. <b>GB/T 5095.6 Method 11i / EIA-364-17B</b>	外观：无损伤（参照6.1.1） Appearance: no damage.( refer to 6.1.1) 接触电阻：10mΩ Max. Contact resistance: 10mΩ Max. 绝缘电阻：500 MΩ Min. Insulation resistance:500 MΩ Min. 耐电压：1000V Min. Withstand voltage: 1000V Min.										
6.3.2	恒定湿热 Humidity	温度(40±2)℃，相对湿度(90~95)% 搁置时间 240 小时，取出恢复(1~2)小时后检查。 Mated connectors exposed to the condition of temperature (40±2)℃, humidity (90~95)% for 240 hours, recovery time (1~2) hours. <b>GB/T 5095.6 Method 11c /EIA-364-31B</b>	外观：无损伤（参照6.1.1） Appearance: no damage.( refer to 6.1.1) 接触电阻：10mΩ Max. Contact resistance: 10mΩ Max. 绝缘电阻：500 MΩ Min. Insulation resistance: 500 MΩ Min. 耐电压：1000V Min. Withstand voltage: 1000V Min.										
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，按下列步骤调试温度： 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 style="margin-left: 20px; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;">Temperature °C</th> <th style="text-align: left;">Duration</th> </tr> </thead> <tbody> <tr> <td>1    -55±2</td> <td>0.5h</td> </tr> <tr> <td>2    Room Temp.</td> <td>5 minutes Max.</td> </tr> <tr> <td>3    +85±2</td> <td>0.5h</td> </tr> <tr> <td>4    Room Temp.</td> <td>5 minutes Max.</td> </tr> </tbody> </table> Step 1 to 4 is one cycle,25 cycles shall be tested, recovery time (1~2) hours. <b>GB/T 5095.6 method 11d / EIA-364-32C</b>	Temperature °C	Duration	1    -55±2	0.5h	2    Room Temp.	5 minutes Max.	3    +85±2	0.5h	4    Room Temp.	5 minutes Max.	外观：无损伤（参照6.1.1） Appearance: no damage.( refer to 6.1.1) 接触电阻：10mΩ Max. Contact resistance: 10mΩ Max. 绝缘电阻：500 MΩ Min. Insulation resistance: 500 MΩ Min. 耐电压：1000V Min. Withstand voltage: 1000V 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. <b>GB/T 5095.6 Method 11f /EIA-364-26B</b>	外观：无损伤(五金件应无露出底金属的严重锈蚀;使用预镀好的型材，其落料面允许有不影响其性能的轻微腐蚀。) Appearance: no damage (no erosion on material exposed. and plating material, slight erosion on the cutting surface is acceptable). 接触电阻：10mΩ Max. Contact resistance: 10mΩ Max.										

产品名称 Product name	TJC50023 系列	编号 Document No.	PS4163	版本号 Version No.	V0
----------------------	-------------	--------------------	--------	--------------------	----



# 产品规格书

## PRODUCT SPECIFICATION

6.3.5	工业气体(氨气)Industrial gas(Ammonia)(NH <sub>3</sub> )	连接器在每升容积内含25毫升3%氨溶液的氨气箱中暴露7小时。 After 7 hours exposure in ammonia chamber with 25 mL of 3% ammonia solution for every liter of chamber capacity.	无应力腐蚀开裂 No stress corrosion cracking
6.3.6	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)°C、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。 Mated connectors exposed to the condition of temperature (40±2)°C, 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) Appearance: no damage.( refer to 6.1.1) 接触电阻: 10mΩ Max. Contact resistance: 10mΩ Max.

产品名称 Product name	TJC50023 系列	编号 Document No.	PS4163	版本号 Version No.	V0
----------------------	-------------	--------------------	--------	--------------------	----





# 产品规格书

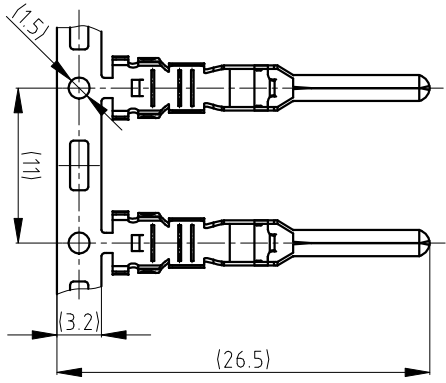
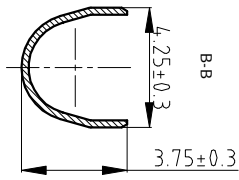
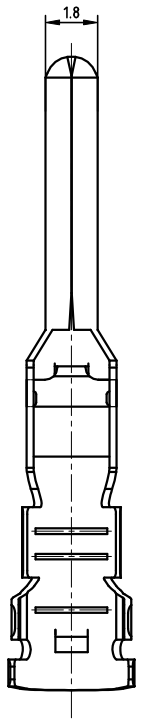
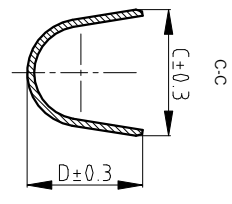
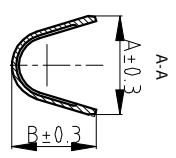
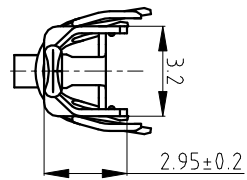
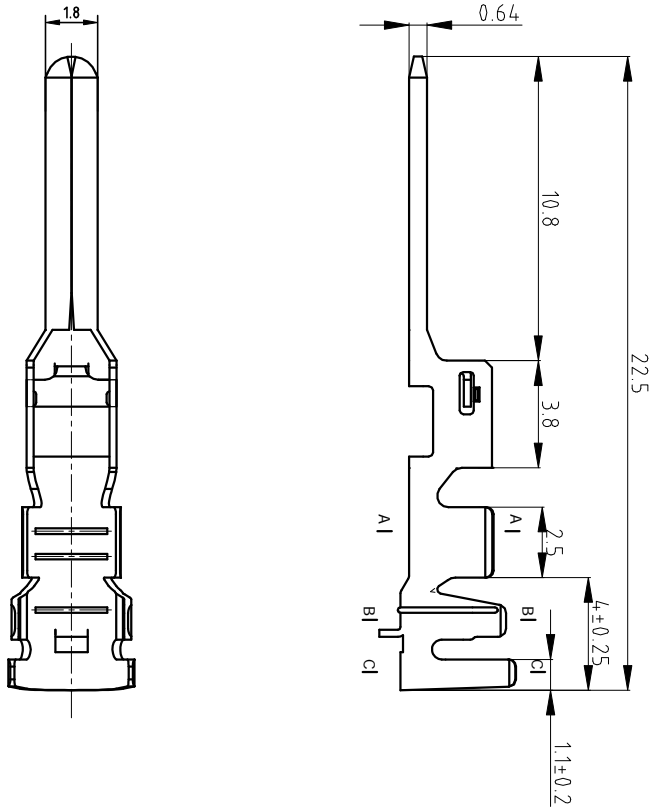
## PRODUCT SPECIFICATION

### 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
外观 Appearance	1	1	1	1	1,5	1	1,5	1	1,7	1	1,7	1,7	1,7	1,5	1,3	1,5
端子插入力与固定力 Insertion force and retention force for terminal	2															
插簧与插针的插拔力 Insertion and withdrawal force for pin in the contact		2														
压着部位抗张强度 Crimp tensile strength			2													
成品插入力与拔出力 (去锁扣) Insertion force and withdrawal force (without lock)				2												
机械振动 Vibration					3											
机械冲击 Shock						2										
机械寿命 Durability							3		5							
锁扣强度 Lock strength								2								
接触电阻 Contact resistance					2,4		2,4		2,6		2,4	2,4	2,4	2,4		2,4
绝缘电阻 Insulation resistance									3		5	5	5			
耐电压 Withstand voltage									4		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		
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

产品名称 Product name	TJC50023 系列	编号 Document No.	PS4163	版本号 Version No.	V0
----------------------	-------------	--------------------	--------	--------------------	----

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



Notes:

- 1.Material: Phosphor bronze, thickness=0.25mm;
- 2.Surface finish: tin plated;
- 3.Matched receptacle housing: TJC50023-2ARP, TJC50023-2AR, TJC50023-2XnARP;
- 4.Applicable wires:  
CZ-TJC50023-AWG#18~AWG#16,  
CZ-TJC50023-1AWG#24~AWG#20;
- 5.Compliant to the current RoHS.

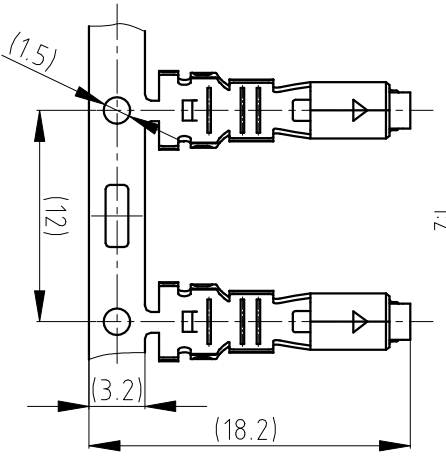
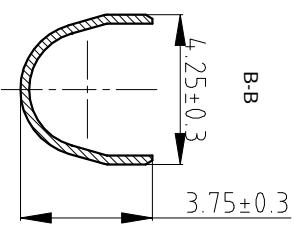
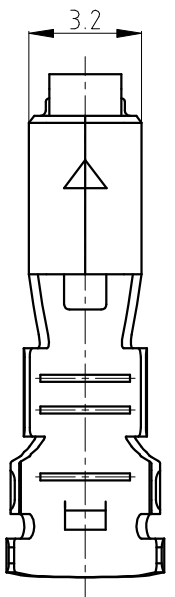
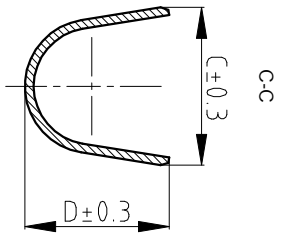
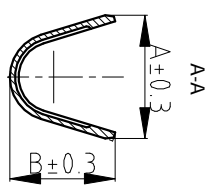
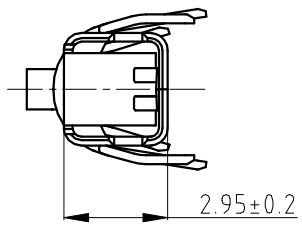
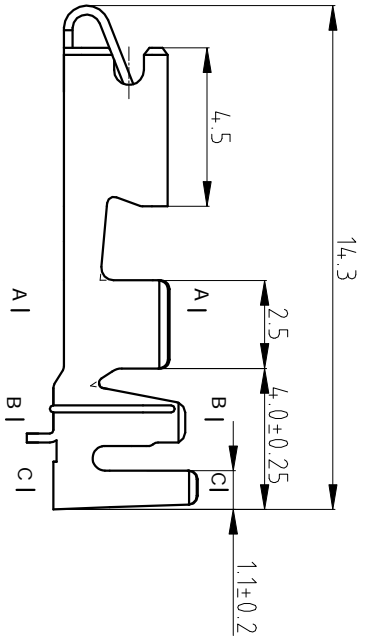
CUSTOMER DRAWING

Drawn	Huanlu 2022.4.1	Unit	mm	Scale	4:1	Size	A4	Edition	B0	Part No.:	CZ-TJC50023-*-*x*	Title:	5.0mm pitch WTW pin contact
Checked	Ou Wang 2022.4.2	Sheet No.	1 of 1							Previous part No.:	/		
Approved	Dongxulu 2022.4.2									Document No.:	CP-DWG-01532		
										Specification No.:	PS4163		

Part No.	Dimension
CZ-TJC50023-1	2.25
CZ-TJC50023	3.5
A	3
B	4.5
C	4.1
D	3.3

**CWB**

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



Notes:

- 1.Material: Phosphor bronze,thickness=0.25mm;
- 2.Surface finish: tin plated;
- 3.Matched Plug housing: TJC50023-2Y,TJC50023-2XnY;
- 4.Applicable wires:  
CH-TJC50023AWG#18~AWG#16  
CH-TJC50023-1AWG#24~AWG#20;
- 5.Compliant to the current RoHS.

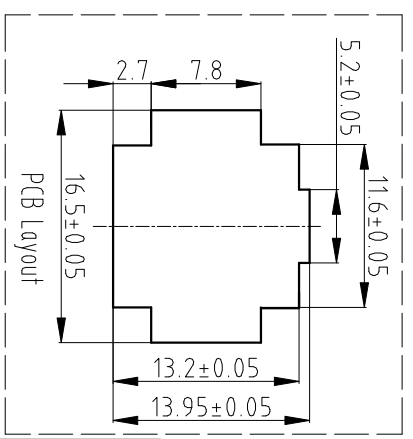
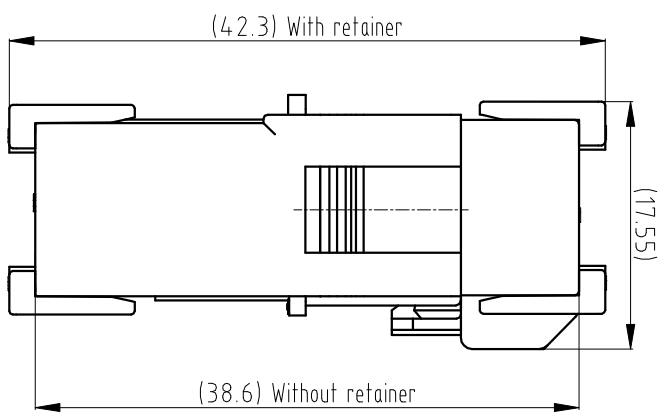
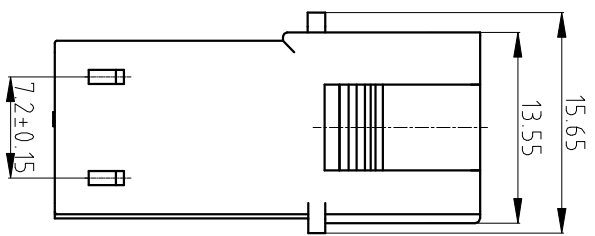
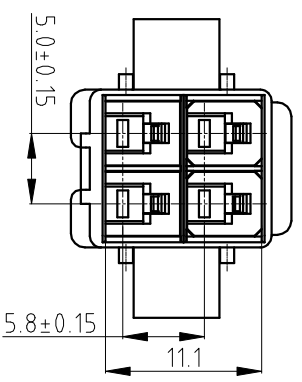
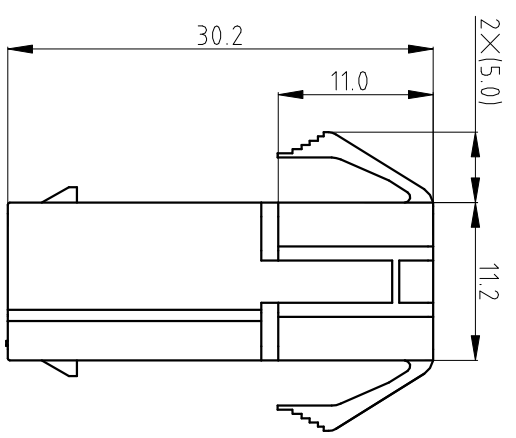
CUSTOMER DRAWING

Drawn	Huanlu 2022.4.1	Unit	mm	Scale	5:1	Size	A4	Edition	B0	Part No.:	CH-TJC50023-*	Title:	5.0mm pitch WTB socket contact
Checked	Qiu Wang 2022.4.2	Sheet No.	1 of 1							Part No.:	A B C D	Dimension	
Approved	Dongxuliu 2022.4.2												

**CWB**

Part No.	2.25	2.05	3.4	3.3
CH-TJC50023-1	3.5	3	4.5	4.1

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



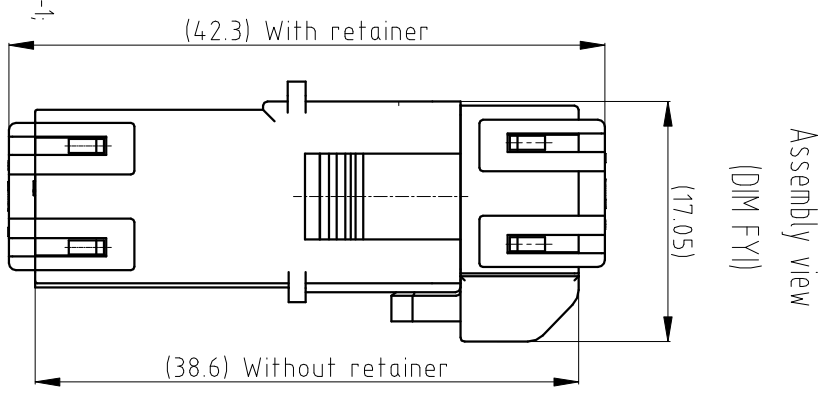
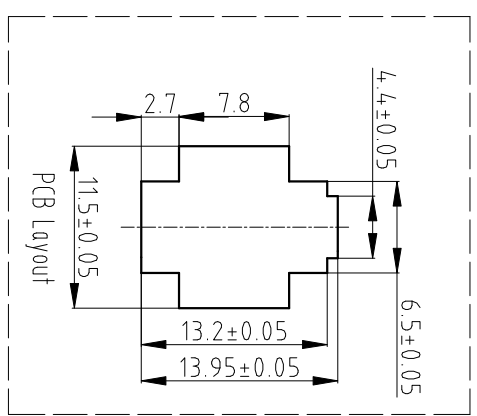
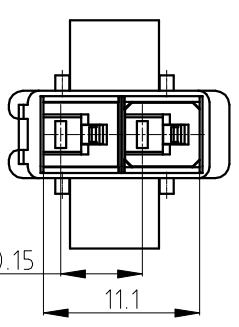
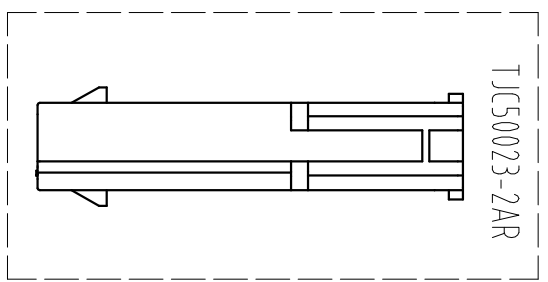
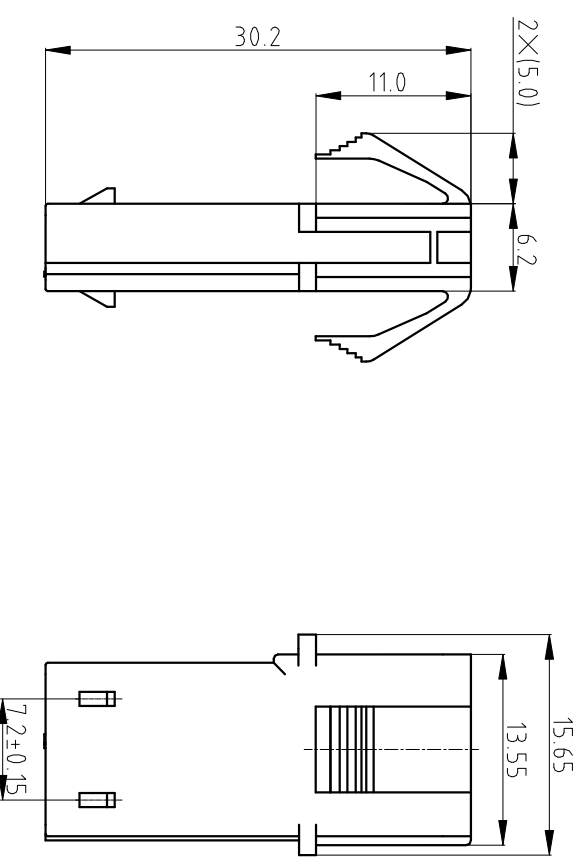
- Notes:
- 1.Material:PA66 UL94 V-0;
  - 2.Matched plug housing:TJCS0023-2X2Y;
  - 3.Matched retainer:TJCS0023-2S;
  - 4.Matched pin contact:CZ-TJCS0023,CZ-TJCS0023-1;
  - 5.Packaging:packing bag;
  - 6.Compliant to the current RoHS.

CUSTOMER DRAWING

Drawn	Huan Lu 2022.4.1	Unit	mm	Scale	2:1	Size	A4	Edition	B0	Title	5.0mm pitch WTW receptacle housing
Checked	Qu Wang 2022.4.2	Sheet No.			1 of 1					Part No.:	TJCS0023-2XARPK*-X)
Approved	Dongxu Liu 2022.4.2									Previous part No.:	/
										Document No.:	CP-DWG-01535
										Specification No.:	PS4163

**CWB**

General tolerance		Dimension	Tolerance	Rev No	Location	Description	Reviser	Date
	0~3	$\pm 0.13$						
	3~18	$\pm 0.23$						
	18~50	$\pm 0.35$						
	$\geq 50$	$\pm 0.55$						



Notes:

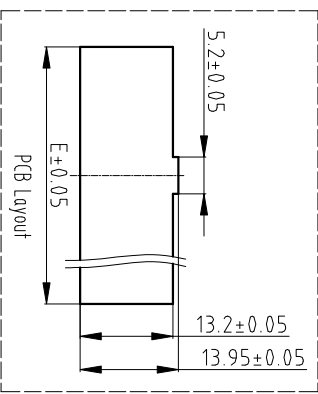
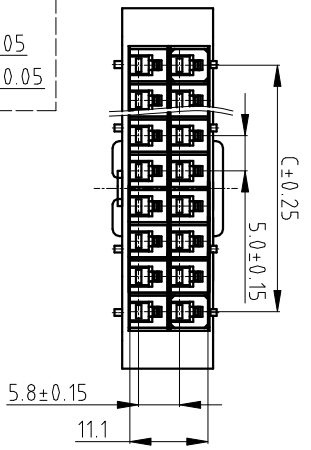
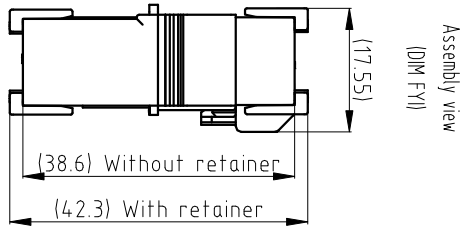
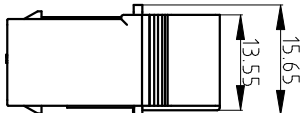
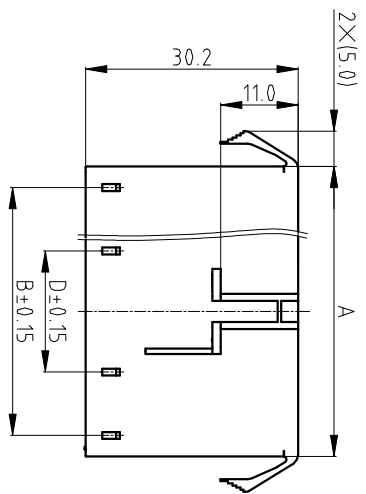
1. Material: PA66 UL94 V-0;
2. Matched plug housing: TJC50023-2Y;
3. Matched retainer: TJC50023-2S;
4. Matched pin contact: CZ-TJC50023, CZ-TJC50023-1;
5. Packaging: packing bag;
6. Compliant to the current RoHS.

CUSTOMER DRAWING

Title:		Unit		Scale		Size		Edition		Part No.:	
Drawn	Huan Lu 2022.4.1	mm		2:1		A4		B0		Part No.: TJC50023-2ARP/2ARR/K-x	
Checked	Qu Wang 2022.4.2	Sheet No.		1 of 1						Previous part No.: /	
Approved	Dongxu Liu 2022.4.2									Document No.: CP-DWG-01534	
										Specification No.: PS4.163	

CWB

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



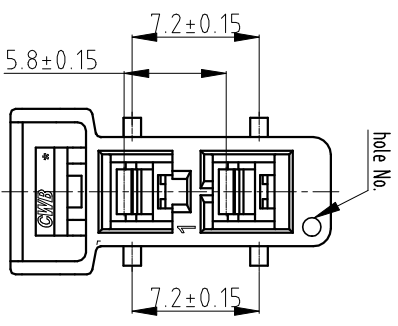
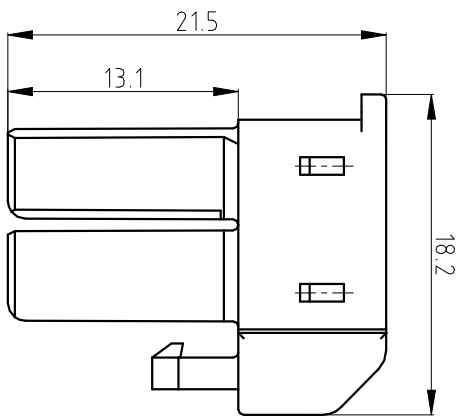
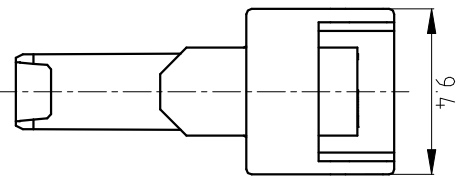
- Notes:
- 1.Material:PA66 UL94 V-0;
  - 2.Matched plug housing:TJCS0023-2XnY;
  - 3.Matched retainer:TJCS0023-nS;
  - 4.Matched pin contact:CZ-TJCS0023,CZ-TJCS0023-1;
  - 5.Packaging:packing bag;
  - 6.Compliant to the current RoHS.

Part No.	Dimension	A	B	C	D	E
16 TJCS0023-2X8ARP	412	35.2	35	11.2	46.5	
12 TJCS0023-2X6ARP	312	25.2	25	16	36.5	
8 TJCS0023-2X4ARP	212	17.2	15	/	26.5	
6 TJCS0023-2X3ARP	162	12.2	10	/	21.5	

CUSTOMER DRAWING

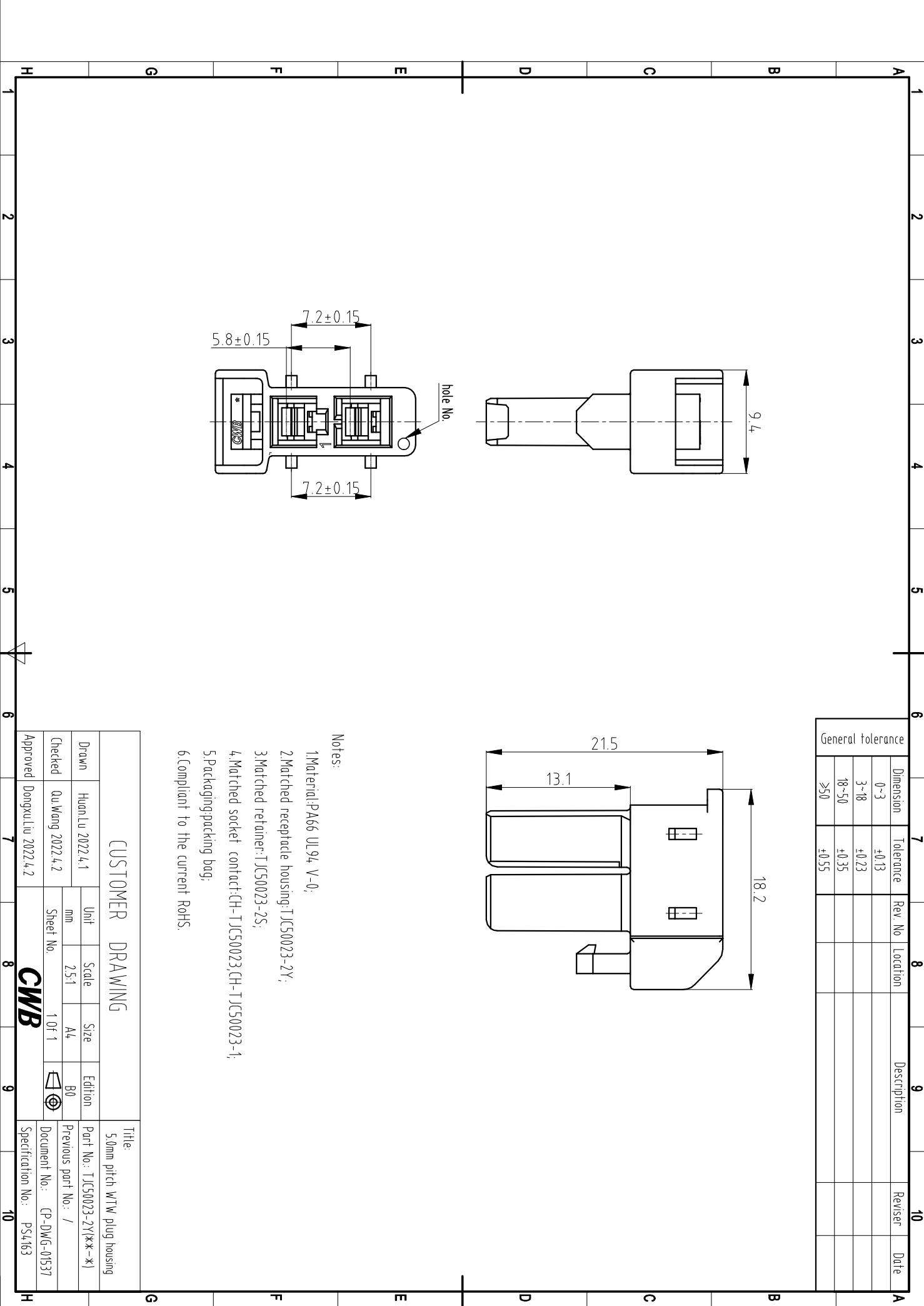
Drawn	HuanLu 2022.4.1	Unit	mm	Scale	1:1	Size	A4	Edition	B1	Title	5.0mm pitch WTW receptacle housing
Checked	QuWang 2022.4.	Sheet No.	1 of 1		CWB		Previous part No.: /		Document No.: CP-DWG-01536		
Approved	Dongxuliu 2022.4.2									Specification No.: PS4163	

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						

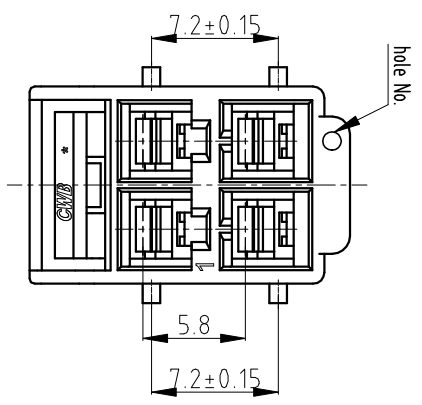
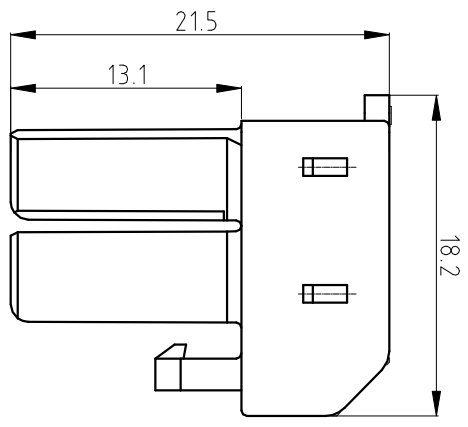
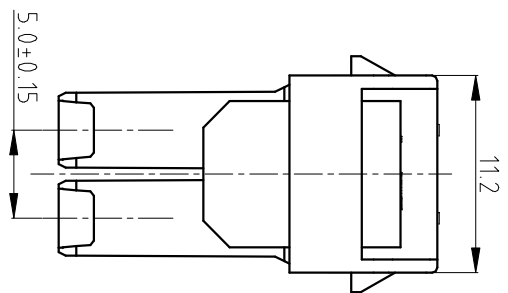


- Notes:
- 1.Material:PA66 UL94 V-0;
  - 2.Matched receptacle housing:TJCS0023-2Y;
  - 3.Matched retainer:TJCS0023-2S;
  - 4.Matched socket contact:CH-TJCS0023,CH-TJCS0023-1;
  - 5.Packaging:packing bag;
  - 6.Compliant to the current RoHS.

CUSTOMER DRAWING		Title:	
Drawn	Huan Lu 2022.4.1	Unit	mm
Checked	Qu Wang 2022.4.2	Scale	2:1
Approved	Dongxu Liu 2022.4.2	Size	A4
		Edition	B0
		Sheet No.	1 of 1
		Part No.:	TJCS0023-2Y(**-*)
		Previous part No.:	/
		Document No.:	CP-DWG-01537
		Specification No.:	PS4.163



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:PA66 UL94 V-0;
- 2.Matched receptacle housing:TJCS0023-2X2Y;
- 3.Matched retainer:TJCS0023-2S;
- 4.Matched socket contact:CH-TJCS0023;CH-TJCS0023-1;
- 5.Packagingpacking bag;
- 6.Compliant to the current RoHS.

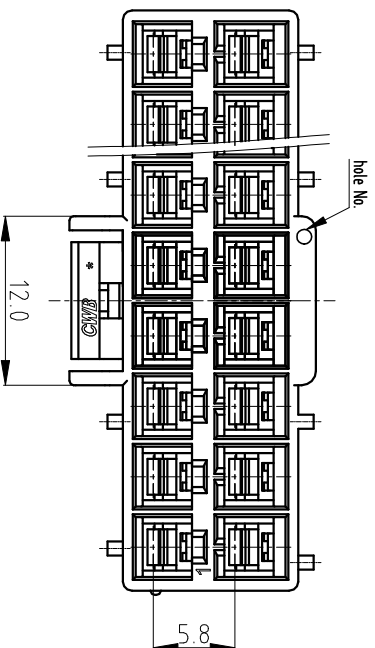
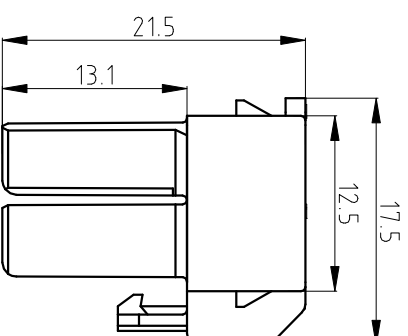
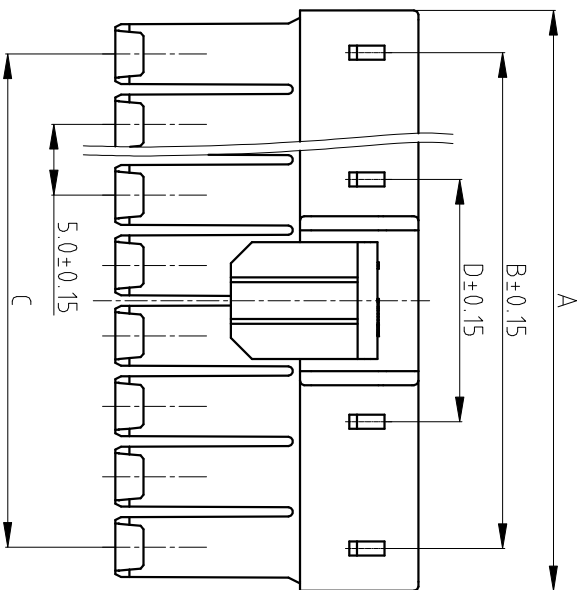
CUSTOMER DRAWING

Drawn	Huan Lu 2022.4.1	Unit	mm	Scale	2.5:1	Size	A4	Edition	B0	Title	5.0mm pitch WTW plug housing
Checked	Qu Wang 2022.4.2	Sheet No.	1 of 1							Part No.:	TJCS0023-2X2Y(***-*)
Approved	Dongxu Liu 2022.4.2									Previous part No.:	/
										Document No.:	CP-DWG-01538
										Specification No.:	PS4.163

**CWB**



General tolerance				7	8	9	10
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:PA66 UL94 V-0;
- 2.Matched receptacle housing:TJCS0023-2XnY;
- 3.Matched retainer:TJCS0023-nS;
- 4.Matched socket contact:CH-TJCS0023,CH-TJCS0023-1;
- 5.Packaging:packing bag;
- 6.Compliant to the current RoHS.

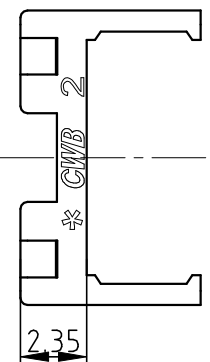
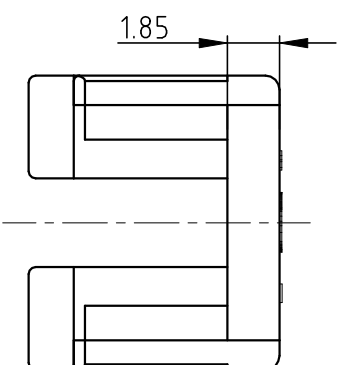
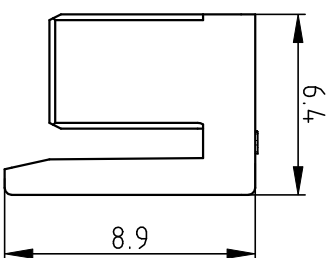
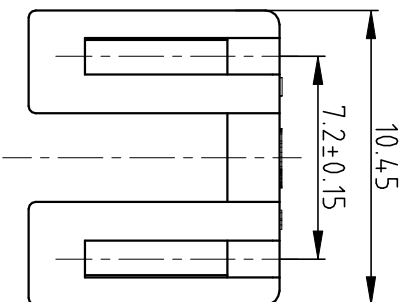
16	TJCS0023-2X8Y	412	35.2	35	17.2
12	TJCS0023-2X6Y	312	25.2	25	16
8	TJCS0023-2X4Y	212	17.2	15	/
6	TJCS0023-2X3Y	162	12.2	10	/
(kts)		A	B	C	D
(in)		Dimension			

CUSTOMER DRAWING

Title:  
5.0mm pitch WTW plug housing

Drawn	Huan Lu 2022.4.1	Unit	mm	Scale	2:1	Size	A4	Edition	B0	Part No.:	TJCS0023-2XnY(k-k-k)
Checked	Qu Wang 2022.4.2	Sheet No.	1 of 1		CWB		Previous part No.:		/	Document No.:	CP-DWG-01539
Approved	Dongxu Liu 2022.4.2									Specification No.:	PS4163

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:

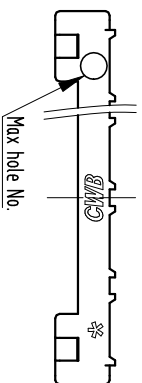
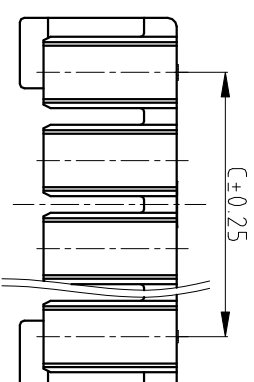
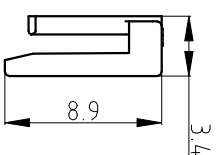
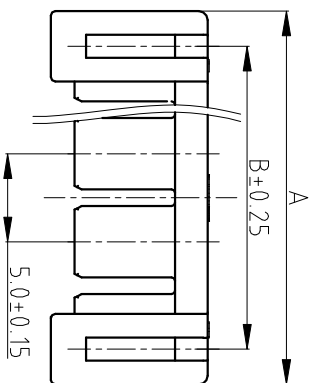
- 1.Material: PA66+GF UL94V-0 GW750°;
- 2.Matched plug housing: TJC50023-2AR,TJC50023-2ARP, TJC50023-2X2ARP;
- 3.Matched receptacle housing: TJC50023-2Y,TJC50023-2X2Y;
- 4.Packaging: packing bag;
- 5.Compliant to the current RoHS.

CUSTOMER DRAWING				Title:	
Drawn	Huanlu 2022.4.1	Unit	Scale	Size	Part No.: TJC50023-2S x(x-x-x)
Checked	Ou Wang 2022.4.2	mm	4:1	A4	Previous part No.: /
Approved	Dongxuliu 2022.4.2	Sheet No.	1 OF 1	Edition	Document No.: CP-DWG-0154.0
				B0	Specification No.: PS4.163

**CWB**

5.0mm pitch WTW retainer

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: PA66+GF UL94V-0 GW750°;
- 2.Matched plug housing: TJC50023-2X4ARP;
- 3.Matched receptacle housing: TJC50023-2X4Y;
- 4.Packaging: packing bag;
- 5.Compliant to the current RoHS.

CUSTOMER DRAWING

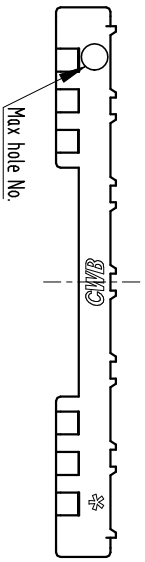
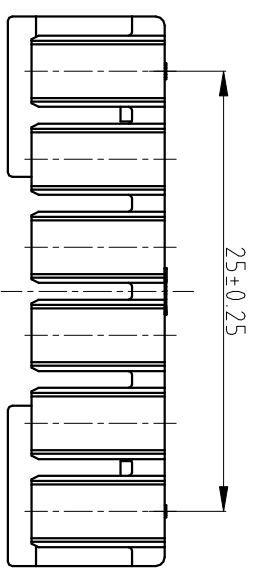
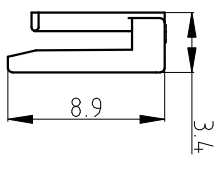
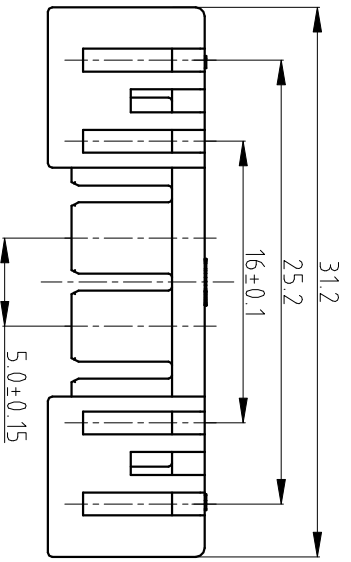
4	TJC50023-4S	212	17.2	15
3	TJC50023-3S	16.2	12.2	10
Ckts	Part No.	A	B	C
(h)	Dimension			

Title: 5.0mm pitch WTW retainer

Drawn		Unit	Scale	Size	Edition	Part No.:	Previous part No.:
Drawn	Huan Lu 2022.4.1	mm	2.5:1	A4	B0	TJC50023-NS x(x-x)	/
Checked	Qu Wang 2022.4.2	Sheet No.	1 of 1			Document No.:	CP-DWG-01541
Approved	Dongxu Liu 2022.4.2					Specification No.:	PS4163

**CWB**

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:

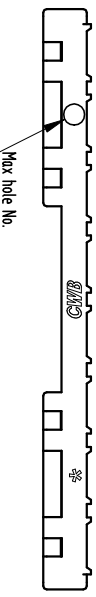
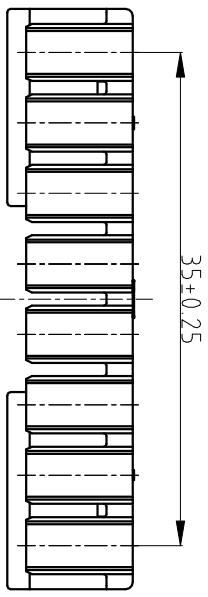
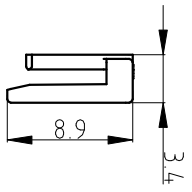
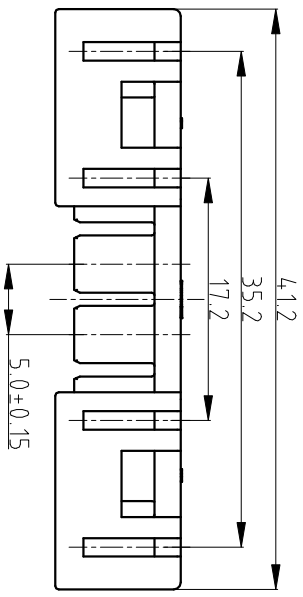
- 1.Material: PA66+GF UL94V-0 GW750<sup>0</sup>;
- 2.Matched plug housing: TJS50023-2X6ARP,
- 3.Matched receptacle housing: TJS50023-2X6Y;
- 4.Packaging: packing bag;
- 5.Compliant to the current RoHS.

CUSTOMER DRAWING

Drawn	Huan Lu 2022.4.1	Unit	mm	Scale	2.5:1	Size	A4	Edition	B0	Title	5.0mm pitch WTW retainer
Checked	Qu Wang 2022.4.2	Sheet No.	1 of 1							Part No.: TJS50023-65 *K*K-*J	
Approved	Dongxu Liu 2022.4.2									Previous part No.: /	
										Document No.: CP-DWG-01542	
										Specification No.: PS4163	

**CWB**

General tolerance		Dimension	Tolerance	Rev. No	Location	Description	Reviser	Date
	0~3	$\pm 0.13$						
	3~18	$\pm 0.23$						
	18~50	$\pm 0.35$						
	$\geq 50$	$\pm 0.55$						

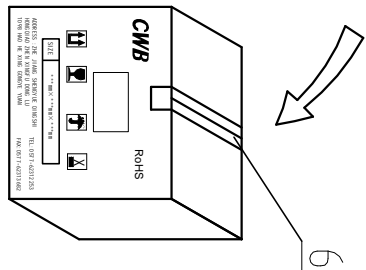
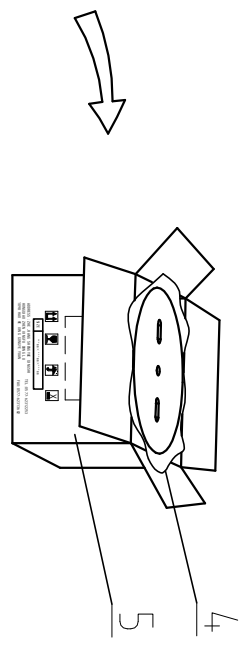
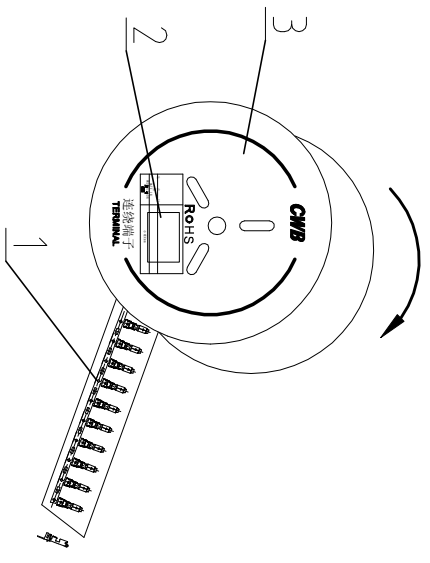


Notes:

1. Material: PA66+GF UL94V-0 GW750<sup>o</sup>;
2. Matched plug housing: TJC50023-2X8ARP;
3. Matched receptacle housing: TJC50023-2X8Y;
4. Packaging: packing bag;
5. Compliant to the current RoHS.

CUSTOMER DRAWING				Title:	
Drawn	Huan Lu 2022.4.1	Unit	mm	Scale	2:1
Checked	Qu Wang 2022.4.2	Sheet No.	1 of 1	Size	A4
Approved	Dongxu Liu 2022.4.2	Edition	B0	Part No.:	TJC50023-8S *(*-*-* /
<b>CWB</b>				Document No.:	CP-DWG-0154.3
				Specification No.:	PS4.163

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						



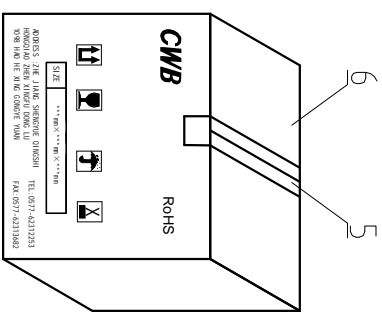
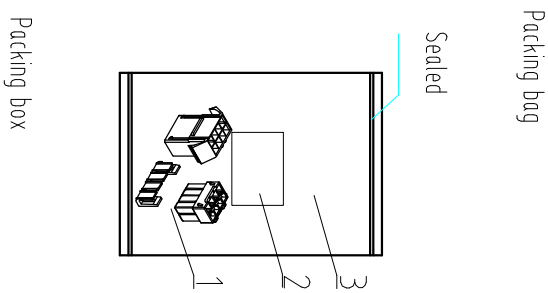
Number	Designation	Remarks
6	gummed tape	
5	Packing box	
4	Packing bag	
3	Reel	
2	Centrifuge	
1	GH-1JCS0023-1**	3.2 KPCS/reel
	CH-1JCS0023-1**	3.5 KPCS/reel
	CZ-1JCS0023-1**	3.6 KPCS/reel
	CZ-1JCS0023-1**	3.8 KPCS/reel

CUSTOMER DRAWING

Title: Packaging specification	
Drawn: Huanlu 2022.4.1	Unit: mm
Checked: Ou Wang 2022.4.2	Scale: /
Approved: Dongxulu 2022.4.2	Size: A4
Edition: B0	
Part No.: 1JCS0023 series Terminal	
Previous part No.: /	
Sheet No.: 1 OF 1	
Document No.: BZ-DWG-0104	
Specification No.: PS463	



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

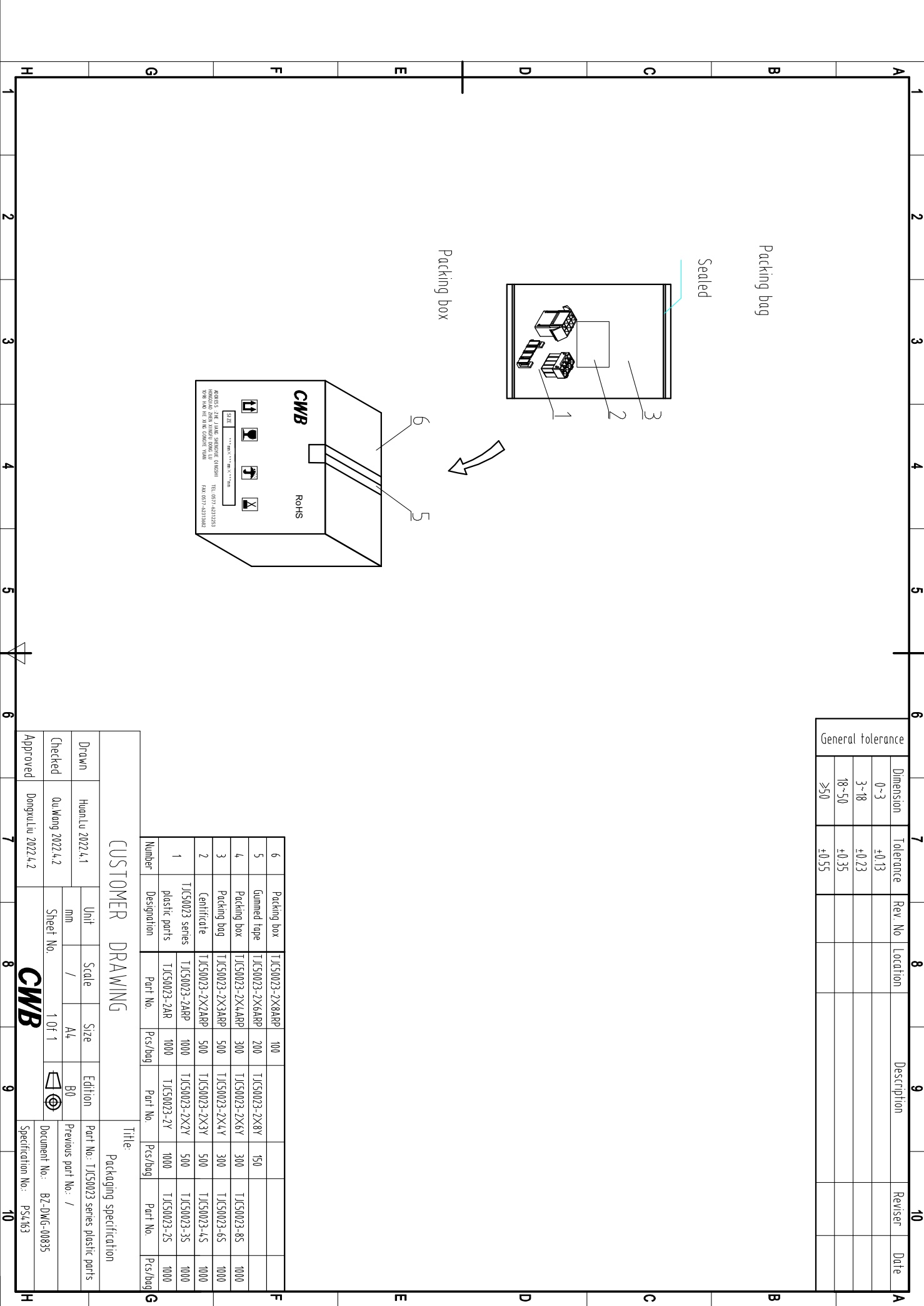


Number	Designation	Part No.	Pcs/bag	Part No.	Pcs/bag	Part No.	Pcs/bag
6	Packing box	TJCS0023-2X8ARP	100				
5	Gunned tape	TJCS0023-2X6ARP	200	TJCS0023-2X8Y	150		
4	Packing box	TJCS0023-2X4ARP	300	TJCS0023-2X6Y	300	TJCS0023-8S	1000
3	Packing bag	TJCS0023-2X3ARP	500	TJCS0023-2X4Y	300	TJCS0023-6S	1000
2	Certificate	TJCS0023-2X2ARP	500	TJCS0023-2X3Y	500	TJCS0023-4S	1000
1	TJCS0023 series plastic parts	TJCS0023-2ARP	1000	TJCS0023-2XY	500	TJCS0023-3S	1000
	Designation	TJCS0023-2AR	1000	TJCS0023-2Y	1000	TJCS0023-2S	1000

**CUSTOMER DRAWING**

Title: Packaging specification

Drawn	Huanlu 2022.4.1	Unit	mm	Scale	/	Size	A4	Edition	B0	Part No.:	TJCS0023 series plastic parts
Checked	Ou Wang 2022.4.2	Sheet No.	1 of 1							Previous part No.:	/
Approved	Dongxuliu 2022.4.2									Document No.:	BZ-DWG-00835
										Specification No.:	PS4.63



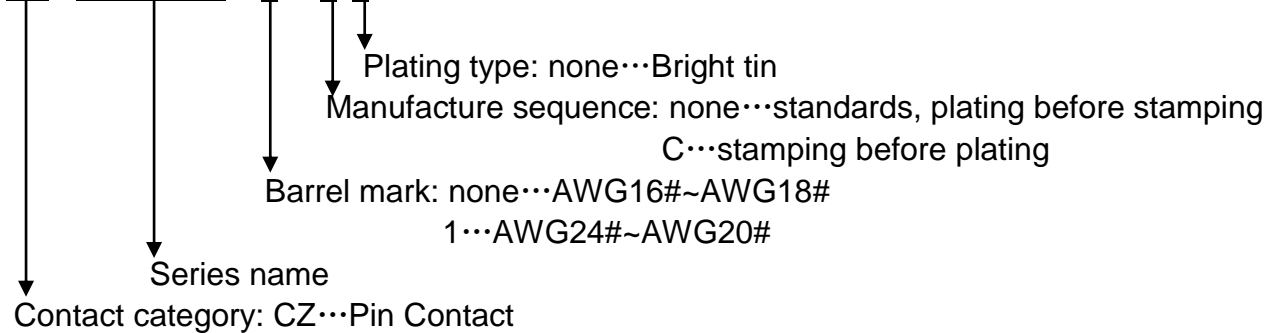
## TJC50023 系列命名规则

### TJC50023 series naming conventions

#### 1. Contact

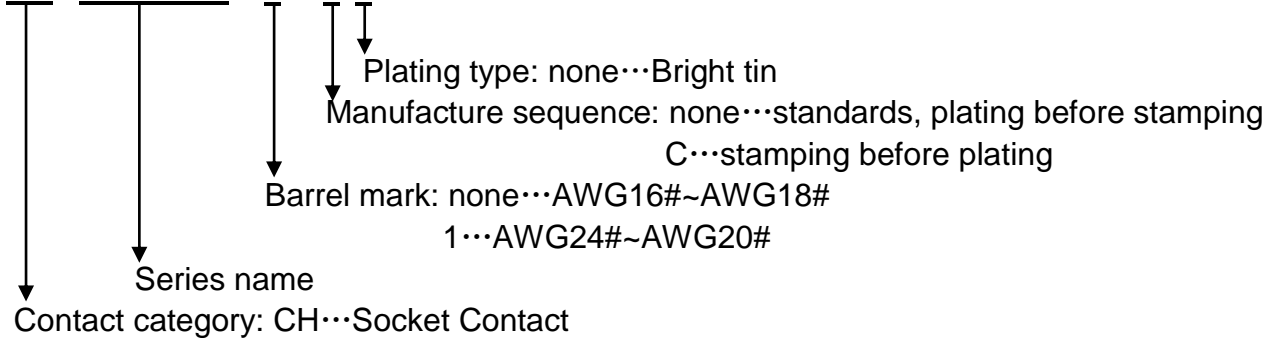
CZ-TJC50023-\*-\*

CZ - TJC50023 - \* - \* \*



CH-TJC50023-\*-\*

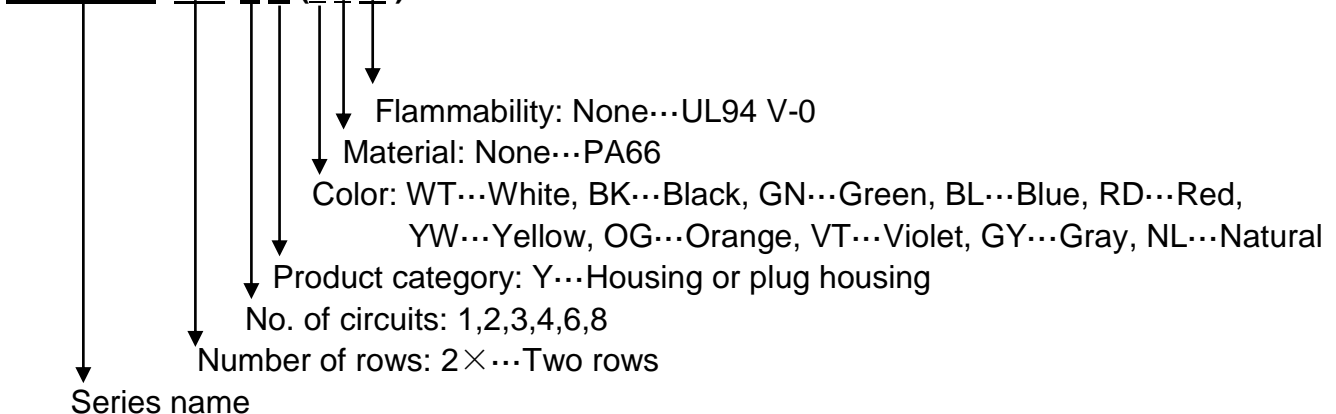
CH - TJC50023 - \* - \* \*



#### 2. Housing

TJC50023-2×nY (\*\*-\*)

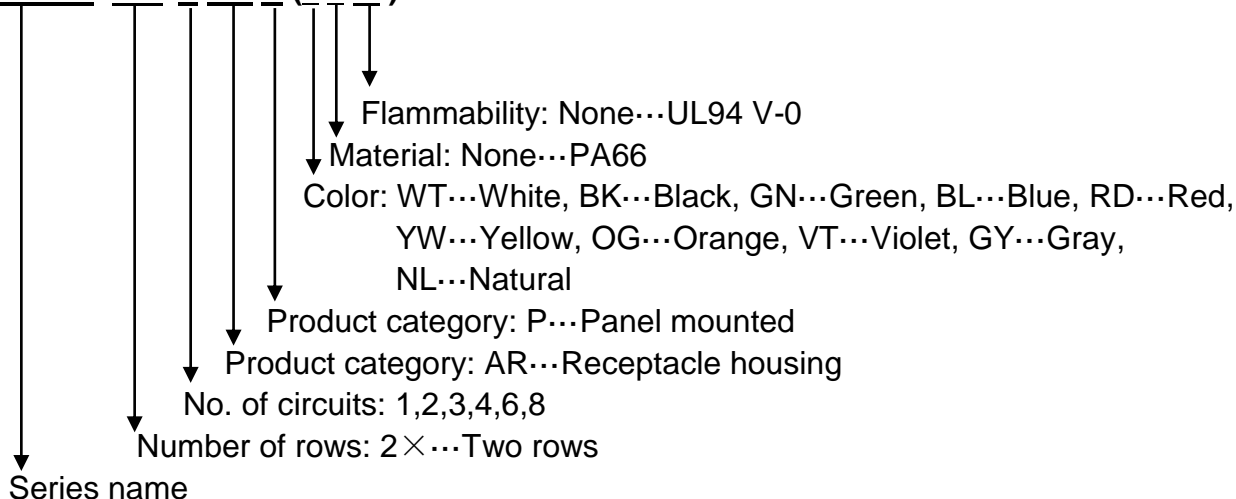
TJC50023 - 2 × n Y ( \* \* - \* )





**TJC50023-2×nARP (\*\*-\*)**

**TJC50023-2× n AR P (\* \* -\*)**



### 3. Receptacle

**TJC50023-nS \* (\*\*-\*)**

**TJC50023- n S \* (\* \* -\*)**

