

标题: TJC50023 系列连接器

Title: TJC50023 Connector

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CWB 浙江合兴电子元件有限公司 CWB Electronics (Zhejiang) Co., Ltd.	制定 Edit: <u>路欢 2022.4.2</u>	产品名称 Product name: <u>TJC50023 系列</u>
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)	审核 Check: <u>王曲 2022.4.2</u>	编号 Document No.: <u>PS4163</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
0	/	First release	路欢 2022/4/2

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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 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℃
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-**-*	AWG18~AWG16
插簧 Socket contact	CH-TJC50023-1-**-*	AWG24~AWG20
插针 Pin contact	CZ-TJC50023-**-*	AWG18~AWG16
插针 Pin contact	CZ-TJC50023-1-**-*	AWG24~AWG20

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

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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	AWG16#	AWG18#	AWG20#	AWG22#	AWG24#
	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:AWG18~AWG16（0.75mm ² -1.25 mm ² ） Insulation diameter: φ 1.9mm- φ 3.1mm				
		Wire size:AWG22+AWG22~AWG20+ AWG20（0.3mm ² +0.3mm ² -0.50mm ² +0.50mm ² ） 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:AWG24~AWG20（0.20mm ² -0.52mm ² ） Insulation diameter: φ 1.4mm- φ 1.8mm				

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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 5095.1 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 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.) GB/T 5095.8 Method 15d / EIA-364-29B	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.) GB/T 5095.8 Method 16e / EIA-364-13B	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.) GB/T5095.8 Method 16d / EIA-364-08B	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、首次拔出力及第100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 and withdrawal force at 10th shall be measured. (Testing speed: <25 mm/min.) GB/T 5095.7 Method 13b / EIA-364-13B	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
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6.1.6	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
6.1.7	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/s ² 持续时间: 11ms Mate connectors and subject them to the following shock conditions, 3 times of shock shall be applied for each 6 directions along 3 mutually perpendicular axes, passing DC 100mA current during the test.(total of 18 shocks). Test pulse: 490m/s ² 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
6.1.8	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.
6.1.9	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 ate less than 25 mm/min. GB/T 5095.8 Method 15a / EIA-364-29B	2pin:24.5N Min. 4pin~16pin:29.4N Min.

6.2 电气性能 Electrical

序号 No.	项 目 Item	测试条件 Test condition	规格 Requirement
6.2.1	接触电阻 Contact resistance	插配阴阳连接器后, 用小功率电路进行测试。 Mate connectors with dry circuit to test contact resistance GB/T 5095.2 Method 2a / EIA-364-23B	7mΩ Max. (Initial) 10mΩ 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 MΩ Min. (Initial) 500 MΩ Min. (Final)
6.2.3	耐电压 Withstand voltage	相邻接触件之间或地线之间施加 1500V AC (有 效值), 漏电流 1mA 的电压作用, 时间 1min. Apply a voltage of 1500V 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

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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.
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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. 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: 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. 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: 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><tr><th>Temperature ℃</th><th>Duration</th></tr><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></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 ℃	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 ℃	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.										

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6.3.5	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
6.3.6	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±5)%、H ₂ 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)℃, humidity(80±5)%, H ₂ 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.

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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
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 ₃)															2	
硫化氢气体测试 (H ₂ S gas test)																3

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Product name

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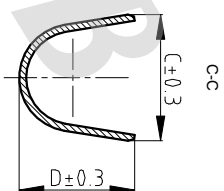
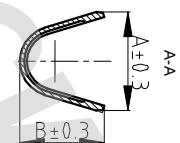
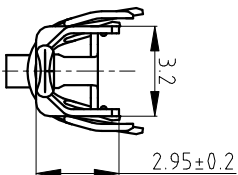
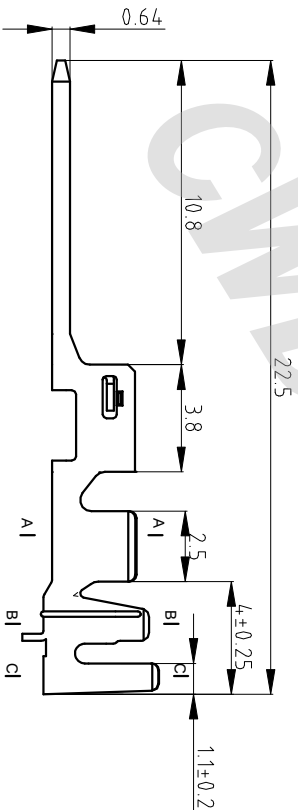
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Document No.

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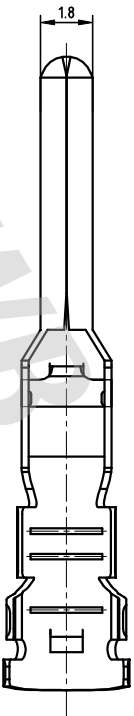
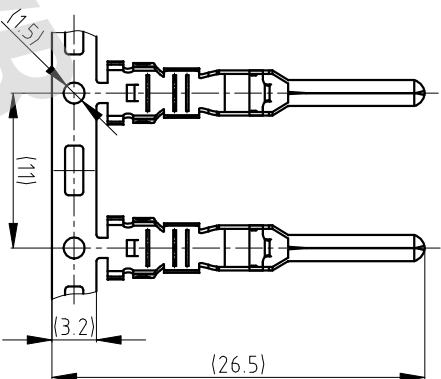
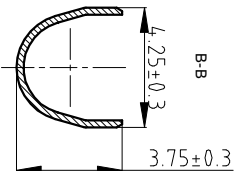
版本号
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General tolerance				
Dimension	Tolerance	Rev. No	Location	Description
0~3	±0.13			
3~18	±0.23			
18~50	±0.35			
≥50	±0.55			



Contact view
1:2



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-TJC50023AWG18#~AWG16#;

CZ-TJC50023-1AWG24#~AWG20#;

5.Compliant to the current RoHS.

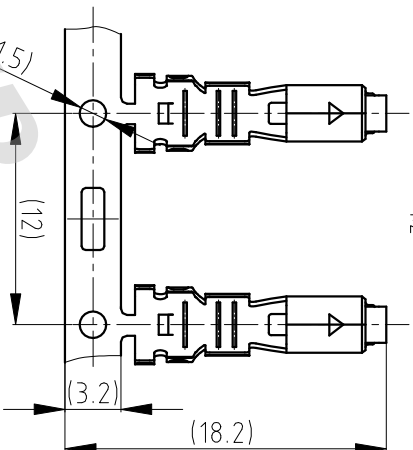
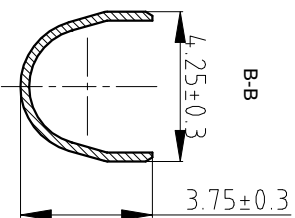
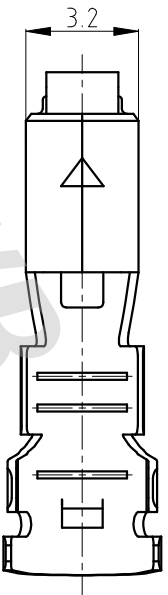
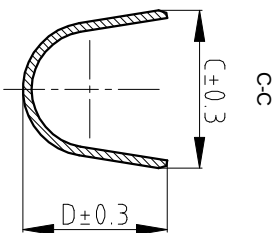
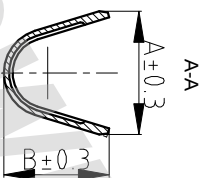
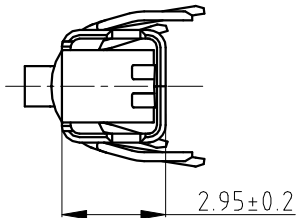
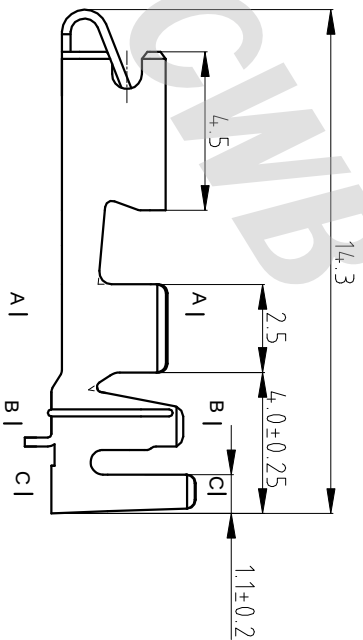
CUSTOMER DRAWING

Title:
5.0mm pitch WTW pin contact

Drawn	Huonlu 2022.4.1	Unit	mm	Scale	4:1	Size	A4	Edition	B0	Part No.:	CZ-TJC50023-1	2.25	2.05	3.4	3.3
Checked	Qu Wang 2022.4.2	Sheet No.	1 of 1							Previous part No.:	/	3.5	3	4.5	4.1
Approved	Dongxuli 2022.4.2									Document No.:	CP-DWG-01532				
										Specification No.:	PS4163				

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

General tolerance				
Dimension	Tolerance	Rev. No	Location	Description
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-TJC50023AWG18#~AWG16#
CH-TJC50023-1AWG24#~AWG20#;
- 5.Compliant to the current RoHS.

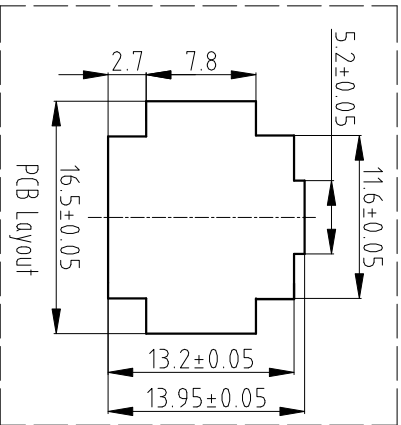
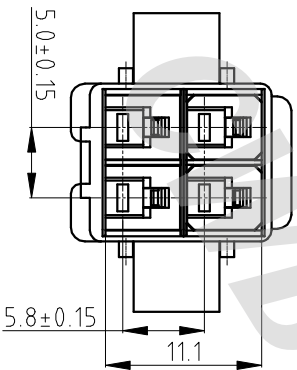
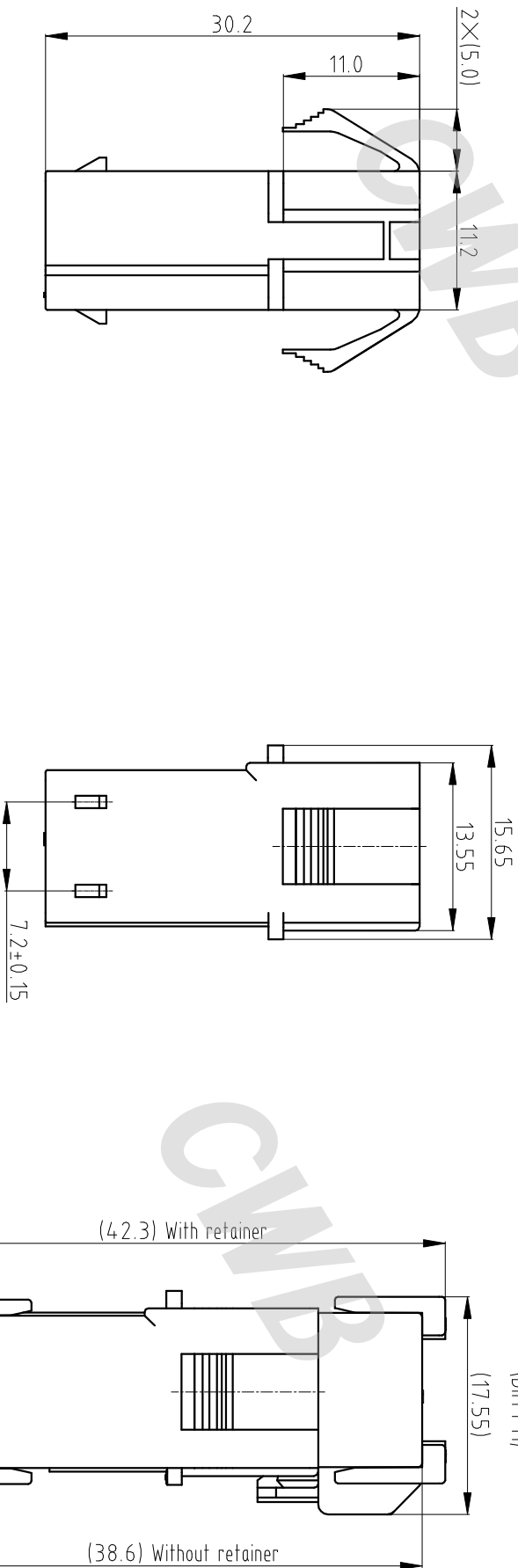
CUSTOMER DRAWING

CUSTOMER DRAWING						Title:	
						5.0mm pitch WTB socket contact	
Drawn	HuanLu 2022.4.1	Unit	Scale	Size	Edition	Part No.: CH-TJCS0023-*-*	
		mm	5:1	A4	B0	Previous part No.: /	
Checked	Qu Wang 2022.4.2	Sheet No.		1 of 1			
							
Approved	Dongxuliu 2022.4.2	CWB 浙江合兴电子元件有限公司 Zhejiang Hexing Electronics (Zhejiang) Co., Ltd.				Document No.: CP-DWG-01533	
						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						

Assembly view

(DIM FTY)



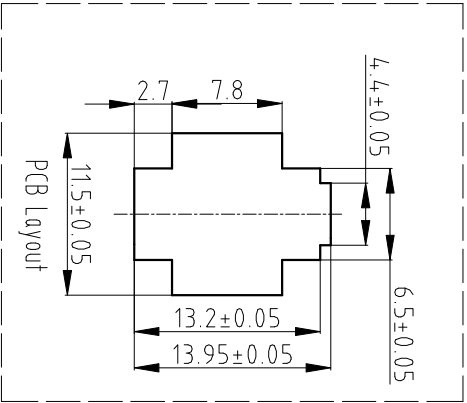
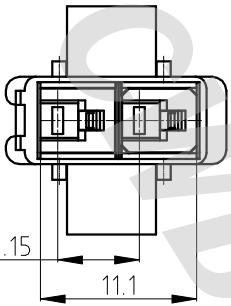
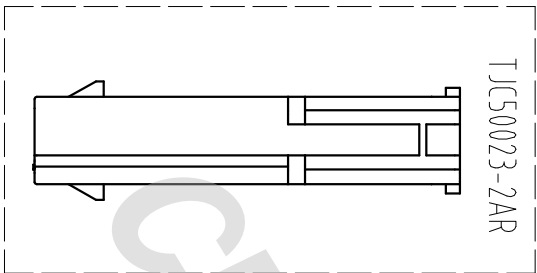
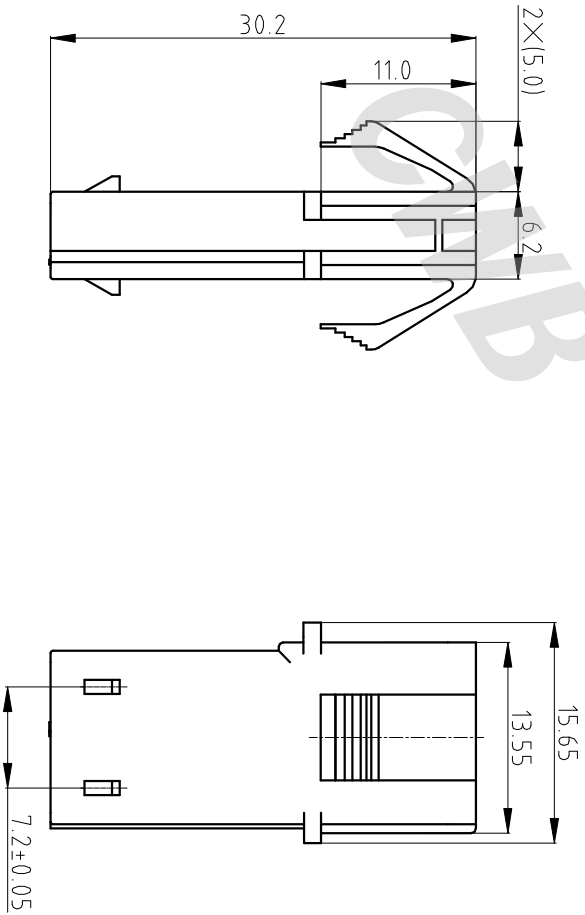
Notes:

- 1.Material:PA66 UL94 V-0;
- 2.Matched plug housing:JCS0023-2X2Y;
- 3.Matched retainer:JCS0023-2S;
- 4.Matched pin contact:CZ-TJCS0023,CZ-TJCS0023-1;
- 5.Packaging:packing bag;
- 6.Compliant to the current RoHS.

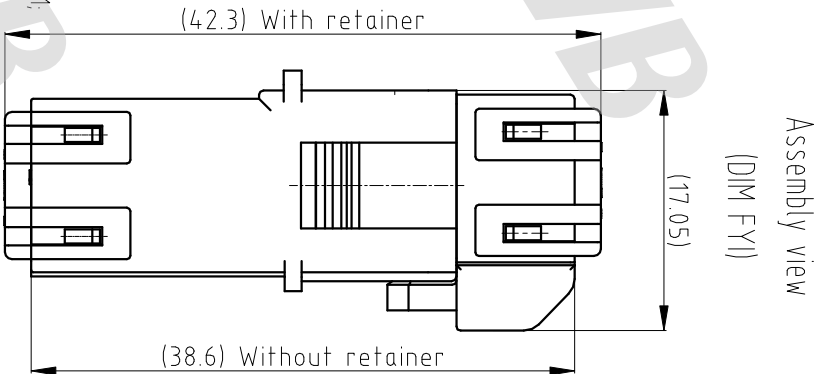
CUSTOMER DRAWING

Title:				50mm pitch WTW receptacle housing			
Drawn	Huan Lu 2022.4.1	Unit	Scale	Size	Edition	Part No.:	JCS0023-2X2ARP(x*-x1)
Checked	Qu Wang 2022.4.2	mm	2:1	A4	B0	Previous part No.:	/
Approved	Dongxu Liu 2022.4.2	Sheet No.	1 of 1			Document No.:	CP-DWG-01535
CWB 浙江合兴电子元件有限公司				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 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.

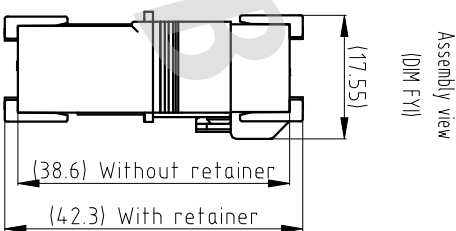
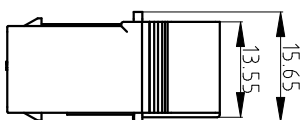
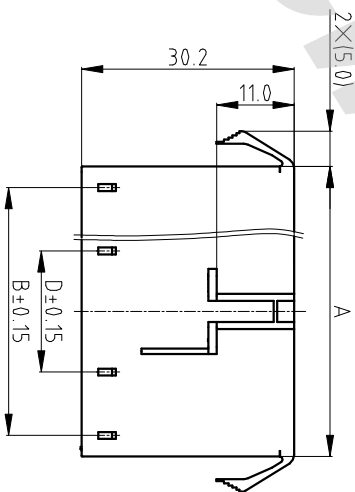


CUSTOMER DRAWING

Drawn		Unit	Scale	Size	Edition	Title:		
HuanLu 2022.4.1		mm	2:1	A4	B0	5.0mm pitch WTW receptacle housing		
Checked		Qu-Wang 2022.4.2		Sheet No.		Part No.:TJC50023-2ARP/2AR(K*-*)		
Approved		DongxuLiu 2022.4.2		1 of 1		Previous part No.: /		
						Document No.: CP-DWG-01534		
						Specification No.: PS4163		

CWB 浙江合兴电子有限公司
CWB Electronics (Zhejiang) Co., Ltd.

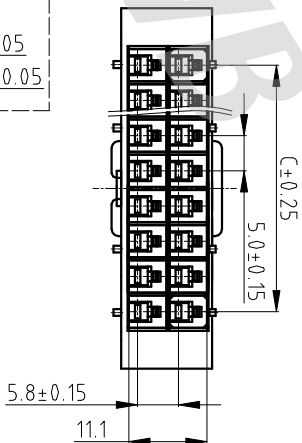
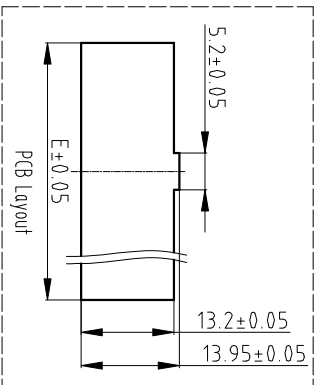
General tolerance		Dimension	Tolerance	Rev. No	Location	Description	Reviser	Date
		0~3	±0.13					
		3~18	±0.23					
		18~50	±0.35					
		≥50	±0.55					



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.

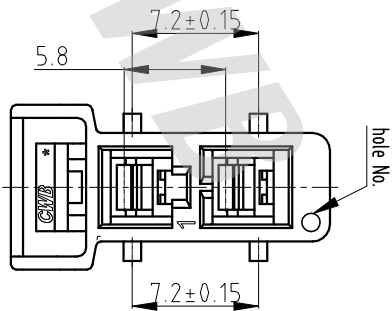
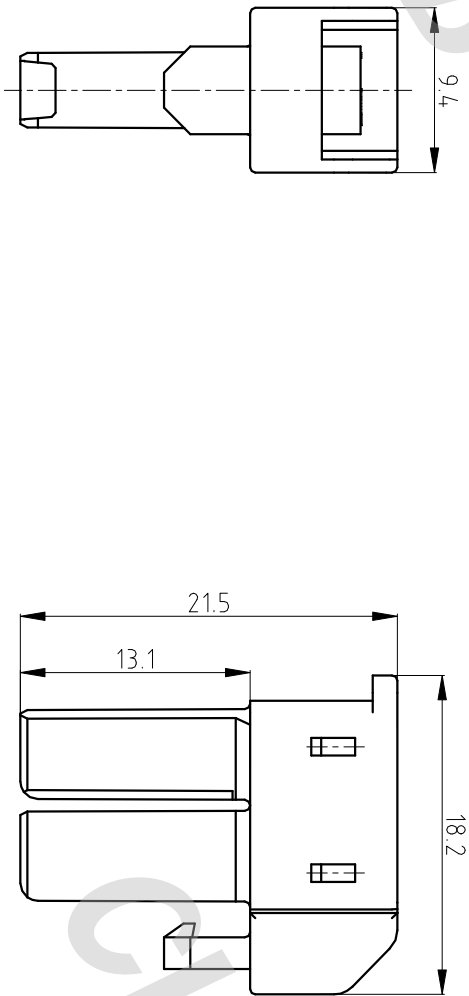
	16	12	8	6	TJCS0023-2X8ARP	412	35.2	25	11.2	46.5
	12	TJCS0023-2X6ARP	31.2	25.2	20	16	36.5			
	8	TJCS0023-2X4ARP	21.2	17.2	15	/	26.5			
	6	TJCS0023-2X3ARP	16.2	12.2	10	/	21.5			
Ckts (n)	Part No.	Dimension								
		A	B	C	D	E				



CUSTOMER DRAWING

CUSTOMER DRAWING					Title:				
Drawn	HuanLu 2022.4.1	Unit	Scale	Size	Edition	5.0mm pitch WTW receptacle housing			
Checked	Qu.Wang 2022.4.	mm	1:1	A4	B1	Part No.:TJCS0023-2XnARP(*~*)	Previous part No.: /		
Approved	Dongxuliu 2022.4.2	Sheet No.	1 of 1			Document No.: CP-DWG-01536	Specification No.: PS4163		
CWB 浙江合兴电子有限公司 CWB Electronics (Zhejiang) Co., Ltd.									

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



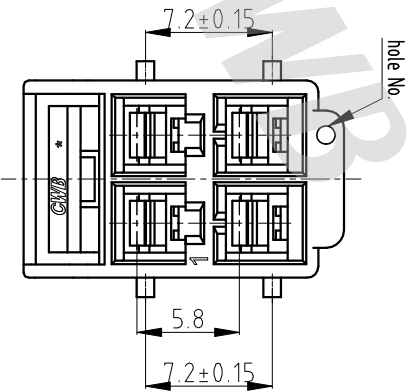
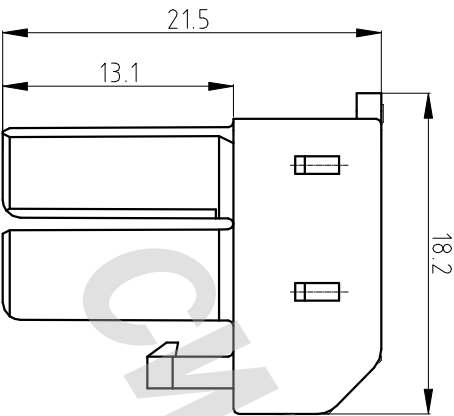
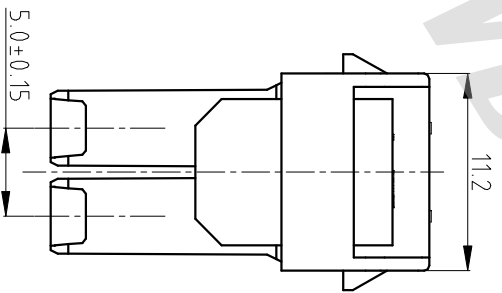
Notes:

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

CUSTOMER DRAWING

Title:		5.0mm pitch WTW plug housing	
Drawn	Huanlu 2022.4.1	Unit	Scale
Checked	Qu-Wang 2022.4.2	mm	2.5:1
Approved	Dongxuliu 2022.4.2	Sheet No.	1 of 1
CWB 浙江合兴电子有限公司		Edition	
CWB CUBE Electronics (Zhejiang) Co., Ltd.		B0	
		Part No.: TJCS0023-2Y(X-X)	
		Previous part No.: /	
		Document No.: CP-DWG-01537	
		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					

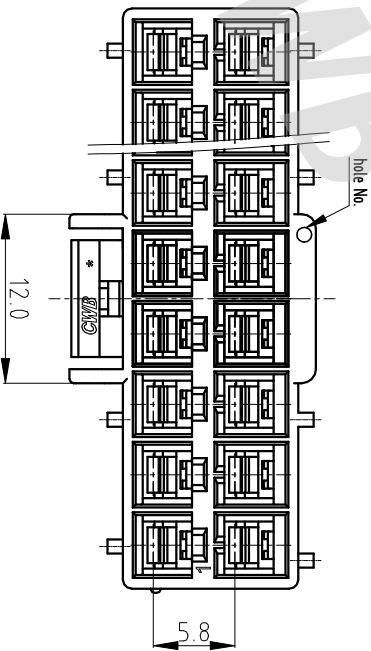
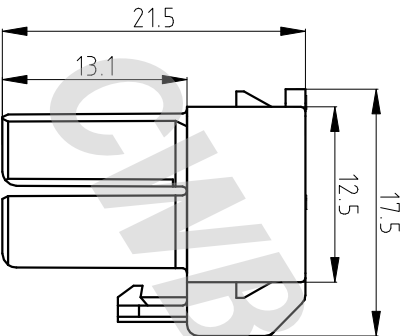
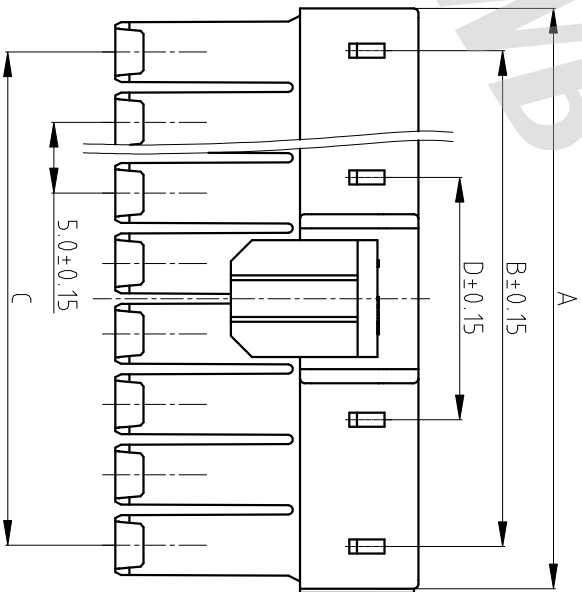


Notes:

- 1.Material:PA66 UL94 V-0;
- 2.Matched receptacle housing:JCS0023-2X2Y;
- 3.Matched retainer:JCS0023-2S;
- 4.Matched socket contact:CH-JCS0023,CH-JCS0023-1;
- 5.Packagingpacking bag;
- 6.Compliant to the current RoHS.

CUSTOMER DRAWING						Title:
Drawn	Huan Lu 2022.4.1	Unit	Scale	Size	Edition	5.0mm pitch WTW plug housing
Checked	Qu Wang 2022.4.2	mm	2:1	A4	B0	Part No.: TJC50023-2X2Y(*-*-* Previous part No.: /
Approved	Dongxu Liu 2022.4.2	Sheet No.	1 of 1			Document No.: CP-DWG-01538 Specification No.: PS4163
CWB 浙江合兴电子元件有限公司 CWB Electronics (Zhejiang) Co., Ltd.						

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



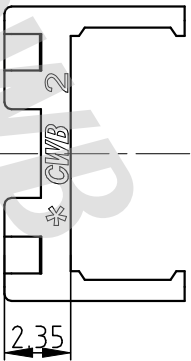
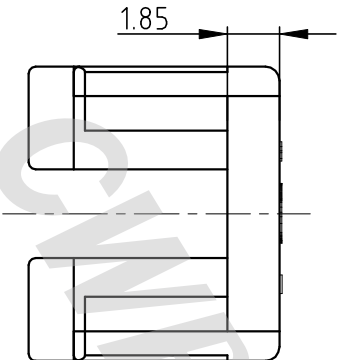
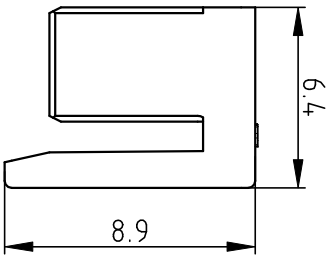
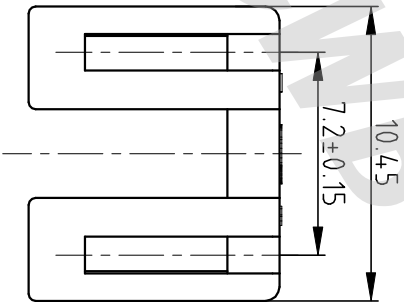
Notes:

- 1.Material: P A66 UL 94 V-0;
- 2.Matched receptacle housing: TJC50023-2XnY;
- 3.Matched retainer: TJC50023-nS;
- 4.Matched socket contact: CH-TJC50023, CH-TJC50023-1;
- 5.Packaging: packing bag;
- 6.Compliant to the current RoHS.

16	TJ50023-2X8Y	412	35.2	25	17.2
12	TJ50023-2X6Y	312	25.2	20	16
8	TJ50023-2X4Y	212	17.2	15	/
6	TJ50023-2X3Y	162	12.2	10	/
Ckts (n)	Dimension				
	A	B	C	D	

CUSTOMER DRAWING						Title:	
Drawn		Huan Lu 2022.4.1	Unit	Scale	Size	5.0mm pitch WTW plug housing	
Checked		Qu Wang 2022.4.2	mm	2:1	A4	Part No.: TJC50023-2XnY(K*-*)	
Approved		Dongxu Liu 2022.4.2	Sheet No.	1 of 1		Previous part No.: /	
			CWB 浙江合兴电子有限公司			Document No.: CP-DWG-01539	
			CWB Electronics (Zhejiang) Co., Ltd.			Specification No.: PS4163	

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

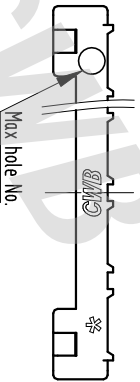
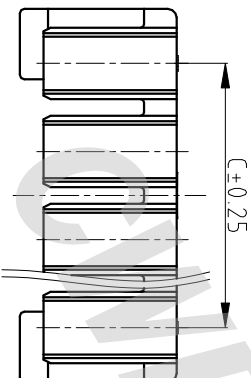
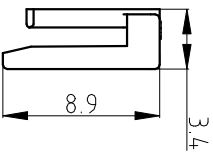
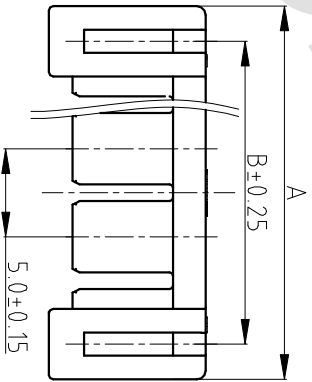


Notes:

- 1.Material: PA66+GF UL94V-0 GWT 750°C;
- 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: 5.0mm pitch WTW retainer	
Drawn	Huonlu 2022.4.1	Unit	Scale	Size	Edition	Part No.: TJC50023-2S *(X-X-X)	Previous part No.: /
Checked	Ou Wang 2022.4.2	mm	4:1	A4	B0	Document No.: CP-DWG-01540	
Approved	Dongquliw 2022.4.2	Sheet No.	1 of 1			Specification No.: PS4163	
CMB 浙江合兴电子元件有限公司						CMB Electronics (Zhejiang) Co., Ltd.	

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

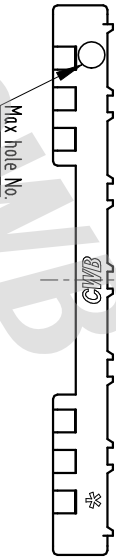
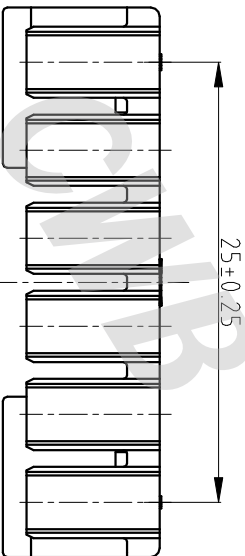
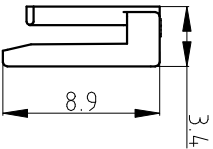
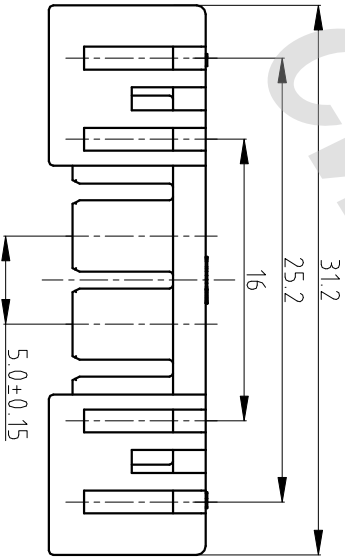


Notes:

- 1.Material: PA66+GF UL94V-0 GWT 750°;
- 2.Matched plug housing: TJC50023-2X4ARP;
- 3.Matched receptacle housing: TJC50023-2X4Y;
- 4.Packaging: packing bag;
- 5.Compliant to the current RoHS.

CUSTOMER DRAWING						Title:	
Drawn	Huan Lu 2022.4.1	Unit	Scale	Size	Edition	5.0mm pitch WTW retainer	
Checked	Qu Wang 2022.4.2	mm	2:1	A4	B0	Part No.: TJC50023-nS *(X-X)	
Approved	Dongxu Liu 2022.4.2	Sheet No.	1 of 1			Previous part No.: /	
CWB 浙江合兴电子元件有限公司 CWB Electronics (Zhejiang) Co., Ltd.						Document No.: CP-DWG-01541	
						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					

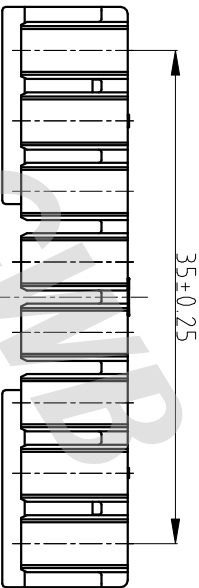
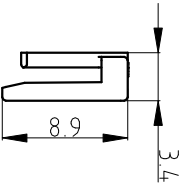
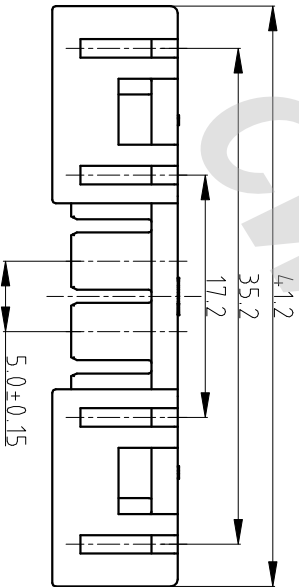


Notes:

- 1.Material: PA66+GF UL94V-0 GWT 750V;
- 2.Matched plug housing: TJC50023-2X6ARP;
- 3.Matched receptacle housing: TJC50023-2X6V;
- 4.Packaging: packing bag;
- 5.Compliant to the current RoHS.

CUSTOMER DRAWING						Title:	
Drawn	Huan.Lu 2022.4.1	Unit	Scale	Size	Edition	5.0mm pitch WTW retainer	
Checked	Qu.Wang 2022.4.2	mm	2:1	A4	B0	Part No.: TJC50023-6S *(*-**)	
Approved	Dongxu.Liu 2022.4.2	Sheet No.	1 of 1			Previous part No.: /	
CWB 浙江合兴电子元件有限公司 CWB Electronics (Zhejiang) Co., Ltd.						Document No.: CP-DWG-01542	
						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					

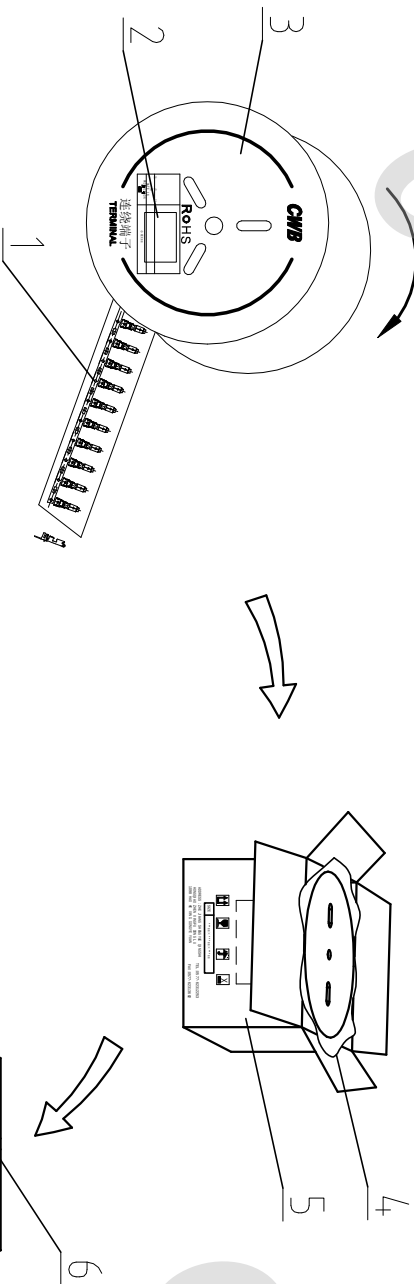


Notes:

- 1.Material: PA66+GF UL94V-0 GWT 750℃;
- 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	Scale	Size	Edition	5.0mm pitch WTW retainer	
Checked	Qu.Wang 2022.4.2	mm	2:1	A4	B0	Part No.: TJC50023-8S *(X-X-X)	
Approved	Dongxu.Liu 2022.4.2	Sheet No.	1 of 1			Previous part No.: /	
CMB 浙江合兴电子元件有限公司 CMB Electronics (Zhejiang) Co., Ltd.						Document No.: CP-DWG-0154.3	
						Specification No.: PS4163	

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



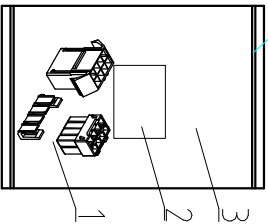
6	Guimed tipe	
5	Packing box	
4	Packing bug	
3	Reel	
2	Certificate	
1	GH-1JCS0023-1**	3 KPCS/reel
	GH-1JCS0023-1-1**	3.5 KPCS/reel
	CZ-1JCS0023-1**	3.5 KPCS/reel
	CZ-1JCS0023-1-1**	3.5 KPCS/reel
Designation		Remarks

CUSTOMER DRAWING

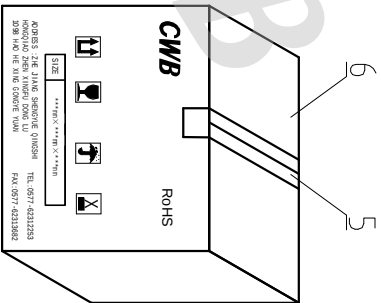
CUSTOMER DRAWING							Title
							Packaging specification
Drawn	HuanLu 2022.4.1	Unit	Scale	Size	Edition	Part No.: 1JCS0023 series terminal	
Checked	Qu Wang 2022.4.2	mm	/	A4	B0	Previous part No.: /	
Approved	Dongxulu 2022.4.2	Sheet No.	1 of 1			Document No.: BZ-DWG-0104	
CWB 浙江合兴电子元件有限公司 CWB Electronics (Zhejiang) Co., Ltd.							Specification No.: PS463

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

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



Packing box



Number	Designation	Part No.	Pcs/bag	Part No.	Pcs/bag	Part No.	Pcs/bag
6	Packing box	TJCS0023-2X8ARP	100				
5	Gunmed 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	Cerificate	TJCS0023-2X2ARP	500	TJCS0023-2X3Y	500	TJCS0023-4S	1000
1	TJCS0023 series plastic parts	TJCS0023-2ARP	1000	TJCS0023-2X2Y	500	TJCS0023-3S	1000
		TJCS0023-2ARP	1000	TJCS0023-2Y	1000	TJCS0023-2S	1000

CUSTOMER DRAWING				Title: Packaging specification			
Drawn	Huanlu 2022.4.1	Unit	Scale	Size	Edition	Part No.: TJCS0023 series plastic parts	Previous part No.: /
Checked	Qu Wang 2022.4.2	mm	/	A4	B0		
Approved	Dongqulu 2022.4.2	Sheet No.	1 of 1			Document No.: BZ-DWG-00835	Specification No.: PS4.63
CWB 浙江合兴电子元件有限公司							
CWB Electronics (Zhejiang) Co., Ltd.							

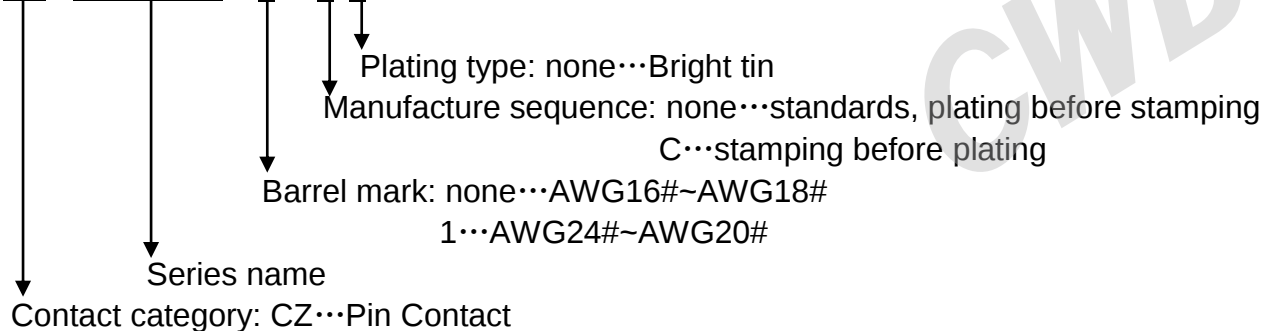
TJC50023 系列命名规则

TJC50023 series naming conventions

1. Contact

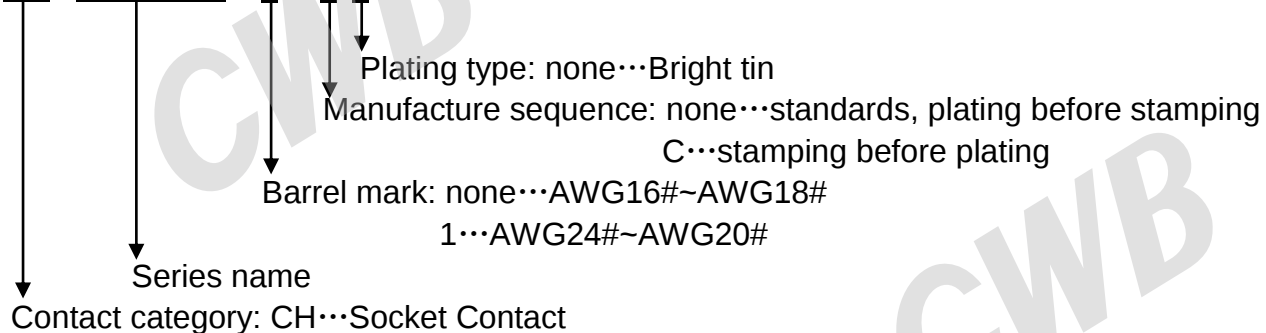
CZ-TJC50023-**-**

CZ - TJC50023 - * - * *



CH-TJC50023-**-**

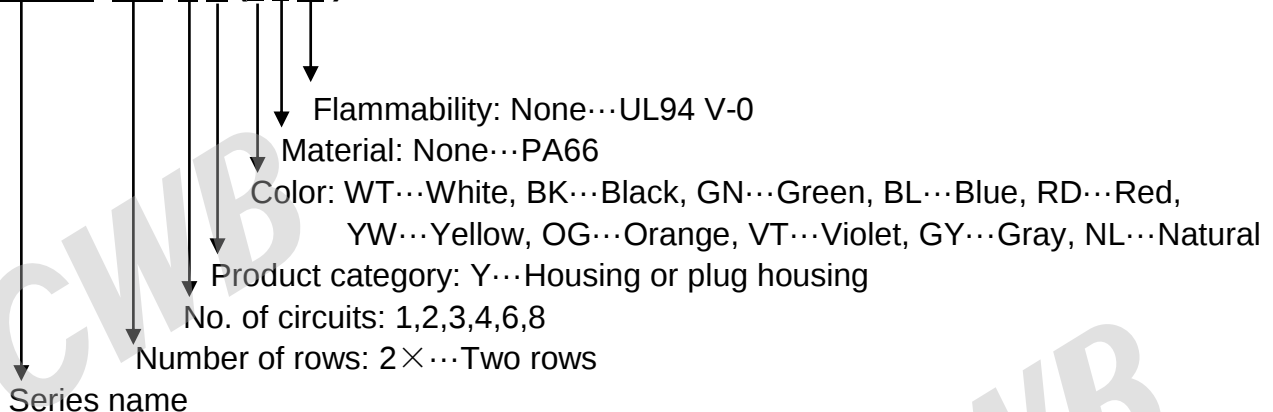
CH - TJC50023 - * - * *



2. Housing

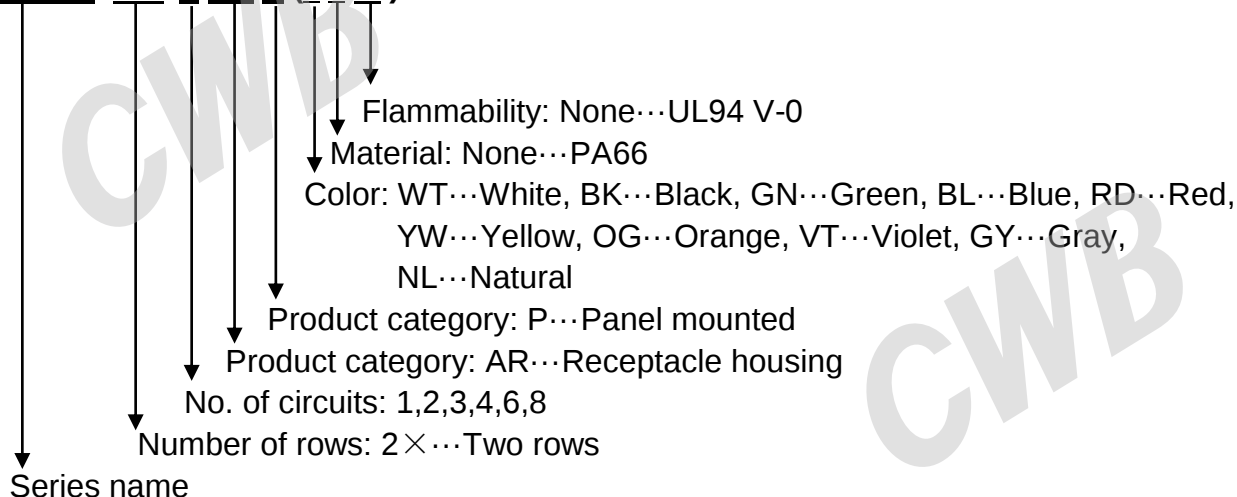
TJC50023-2×nY (**-*)

TJC50023 - 2 × n Y (* * - *)



TJC50023-2×nARP (-*)**

TJC50023-2× n AR P (* * -*)



3. Receptacle

TJC50023-nS * (-*)**

TJC50023- n S * (* * -*)

