

标题: TJC50016 系列连接器

Title: TJC50016 Connector

目录

Content

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>周奕宏 2021. 9. 23</u>	产品名称 Product name: <u>TJC50016 系列连接器</u>
	审核 Check: <u>吴吉 2022. 8. 10</u>	编号 Document No.: <u>PS4098</u>
	批准 Approval : <u>刘冬旭 2022. 8. 10</u>	版本 Revision: <u>V2</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	/	首版发布 First release	周奕宏 2021/09/23 Yihong.Zhou 2021/09/23
V1	/	模板更新 Update the template	张玲玲 2022/05/26 Lingling.Zhang 2022/05/26
V2	/	模板更新 Update the template	张玲玲 2022/08/10 Lingling.Zhang 2022/08/10

产品名称 Product Name:	TJC50016 系列连接器	编号 Document No.	PS4124	版本号 Version No.	V2
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产品规格书

PRODUCT SPECIFICATION

2. 适用范围 Scope

本产品规格书适用于浙江合兴电子元件有限公司生产的 WTB 5.0 阴型 & 阳型电子连接器，产品名称：TJC50016 系列连接器。

This product specification covers the requirement for wire to board 5.0mm pitch Receptacle & Plug connector, which are designed and manufactured by CWB Electronics(ZheJiang) Co.,LTD. P/N: TJC50016 Connector.

3. 产品描述 Product description

TJC50016 系列连接器产品为家电连接器产品，产品部件组成如下：

The TJC50016 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 Contact	CH-TJC50016-**	CH-TJC50016 D	RV-90 0.3mm ² AWG#26 ~ AWG#22
孔座 (双排) Housing (Double rows)	TJC50016-2×1Y(**-*)	TJC50016-2×1Y (WT)	PA66 UL94V-0
阳连接器 (立式，直插，含定位柱，双排) Header(V，DIP，W/Boss，Double rows)	TJC50016-2×1AD(**-*)	TJC50016-2×1AD (WT)	Wafer: PA66 UL94V-0 Post: Brass, tin plated

4. 相关标准 Related standards

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

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

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

产品名称 Product Name:	TJC50016 系列连接器	编号 Document No.	PS4124	版本号 Version No.	V2
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产品符合 RoHS 标准。

The product should comply with RoHS.

5. 参数范围 Parameter ratings:

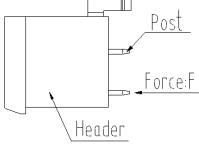
额定电流 [AC(有效值)/DC] Rated current [AC(rms)/DC]	AWG#22	RV-90 0.3mm ²	AWG#24	AWG#26
	3A Max.	3A Max.	2.5A Max.	2A Max.
适用 PCB 板 Applicable PCB	Board thickness: 1.6mm Hole diameter: 1.45mm~1.55mm Location hole diameter :2.45mm~2.55mm			
额定电压[AC(有效值)/DC] Rated voltage [AC(rms)/DC]	150V			
使用温度范围 (包含温升) Operating temperature range (include temperature rise)	-25°C~+90°C			
适用线型 (具体适用线型请参考 压接规格书) Applicable wires(Please refer to the crimping specification for details)	Wire size: RV-90 0.3mm ² Insulation diameter: φ1.5mm			
	Wire size: AWG#22(0.32mm ²) Insulation diameter: φ1.6mm			
	Wire size: AWG#24(0.20mm ²) Insulation diameter: φ1.4mm			
	Wire size: AWG#26(0.13mm ²) Insulation diameter: φ1.3mm			

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.

产品名称 Product Name:	TJC50016 系列连接器	编号 Document No.	PS4124	版本号 Version No.	V2
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6.1.2	端子固定力 Retention force for contact	应测量将端子沿轴线方向拔出孔座的力, 测试速度不大于 25 mm/min。 The force of pulling the contact out of the housing along the axis shall be measured (Testing speed: <25 mm/min.) GB/T 5095.8 Method 15d / EIA-364-29B	30N Min.			
6.1.3	针的固定力 Retention force for pin	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	20N Min.			
						
6.1.4	插簧与插针的插入力 Insertion 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插簧, 测试速度不大于 25 mm/min。 Insert the pin contact into the socket contact in the direction of the terminal axis (Testing speed: <25 mm/min.) GB/T 5095.7 Method 13b / EIA-364-13B	7N Max.			
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10次拔出力, 测试速度不大于 25 mm/min。 A housing with crimped contacts and a header shall be mated and unmated on the mating axis. Initial insertion and withdrawal forces and withdrawal force at 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.)	十次后拔出力 (Withdrawal 10th Min.)
			2	14N	3N	2N
6.1.6	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	RV-90 0.3mm ² : 45N Min. AWG#22: 45N Min. AWG#24: 30N Min. AWG#26: 20N Min.			
6.1.7	机械振动 Vibration	插合连接器, 串联在直流电源上, 电流100 mA; 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1.52 mm。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: 1min. Amplitude: 1.52 mm. 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: 20mΩ Max. Contact resistance: 20mΩ Max. 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: 20mΩ Max. Contact resistance: 20mΩ Max.			

产品名称 Product Name:	TJC50016 系列连接器	编号 Document No.	PS4124	版本号 Version No.	V2
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6.2 电气性能 Electrical

序号 No.	项 目 Item	测试条件 Test condition	规格 Requirement
6.2.1	接触电阻 Contact resistance	连接器完成品装配好后, 用电压降法测得连接器的接触电阻 After the connector is assembled, the contact resistance of the connector is measured using the voltage drop method GB/T 5096.2 Method 2a / EIA-364-23B	10mΩ Max. (Initial) 20mΩ Max. (Final)
6.2.2	绝缘电阻 Insulation resistance	在相邻接触件之间或地线之间,用 500 V DC 电压进行测试。 Apply a voltage of 500 V 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 1500 V AC (有效值),漏电流 1 mA 的电压作用,时间 1min。 Apply a voltage of 1500 V AC (rms) and leakage current of 1 mA 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. AWG#22: 3A GB/T 5095.3 Method 5a / EIA-364-70A	Δ30°C Max.

6.3 环境性能 Environmental

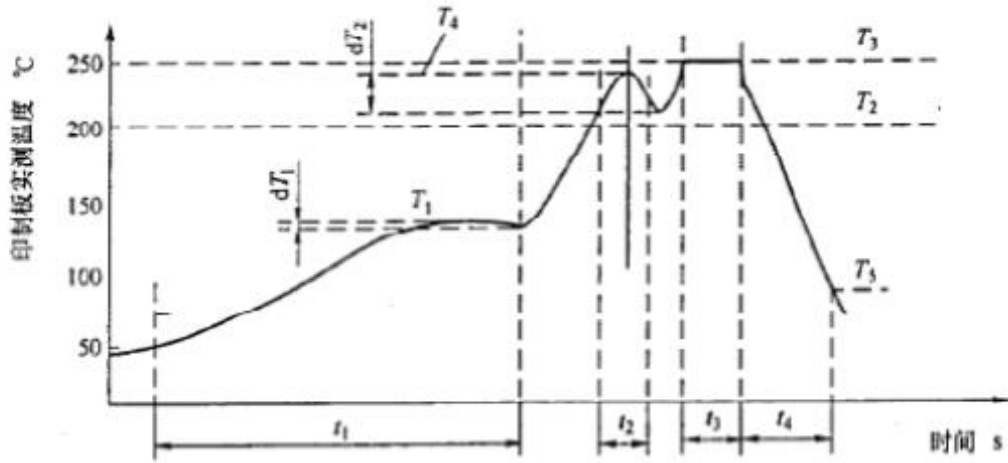
序号 No.	项 目 Item	测试条件 Test condition	规格 Requirement
6.3.1	耐高温 Heat resistance	连接器配合后, 于(105±2)°C的空气中放置 250 小时, 再回到室温中放置(1~2)小时测定 Mated connectors exposed to the condition of (105±2)°C for 250 hours, recovery time (1~2) hours GB/T 5095.6 Method 11i / EIA-364-17B	外观: 无损伤(参照6.1.1) Appearance: no damage.(refer to 6.1.1) 接触电阻: 20mΩ Max. Contact resistance: 20mΩ 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)°C, 相对湿度(90~95)% 搁置时间 96h, 取出恢复(1~2)小时后检查。 Mated connector exposed to the condition of (40±2)°C (90~95)% humidity 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: 20mΩ Max. Contact resistance: 20mΩ Max. 绝缘电阻: 500 MΩ Min. Insulation resistance : 500 MΩ Min. 耐电压: 1000V Min. Withstand voltage: 1000V Min.

产品名称 Product Name:	TJC50016 系列连接器	编号 Document No.	PS4124	版本号 Version No.	V2
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6.3.3	温度循环 Temperature cycling	<p>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：</p> <p>a) 在(-55±2)°C的恒温条件下放置 0.5h； b) 在(85±2)°C的恒温条件下放置 0.5h； 从 a)到 b)为一个循环周期，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)h 后检查。</p> <p>Mated connectors shall be tested under the following conditions</p> <table border="1"> <thead> <tr> <th>Temperature °C</th> <th>Duration (Minutes)</th> </tr> </thead> <tbody> <tr> <td>1 -55</td> <td>30</td> </tr> <tr> <td>2 +25</td> <td>5Max.</td> </tr> <tr> <td>3 +85</td> <td>30</td> </tr> <tr> <td>4 +25</td> <td>5Max.</td> </tr> </tbody> </table> <p>Step 1 to 4 is one cycle,25 cycles shall be tested. Recovery time (1~2) hours.</p> <p>GB/T 5095.6 method 11d / EIA-364-32C</p>	Temperature °C	Duration (Minutes)	1 -55	30	2 +25	5Max.	3 +85	30	4 +25	5Max.	<p>外观：无损伤(参照6.1.1) Appearance: no damage.(refer to 6.1.1) 接触电阻：20mΩ Max. Contact resistance: 20mΩ Max. 绝缘电阻：500 MΩ Min. Insulation resistance: 500 MΩ Min. 耐电压：1000V Min. Withstand voltage: 1000V Min.</p>
Temperature °C	Duration (Minutes)												
1 -55	30												
2 +25	5Max.												
3 +85	30												
4 +25	5Max.												
6.3.4	盐雾 Salt spray	<p>把试验样品从试验箱顶悬挂下来，采用浓度为(5±1)%(质量百分比)的氯化钠溶液，在(35±2) °C温度下连续雾化 48 小时，试验后用流动的蒸馏水轻轻洗去表面沉积物。在常温常湿条件下恢复(1~2)小时。</p> <p>48 hours spray, at temp (35±2) °C, NaCl mist concentration (5±1)%. After test wash parts and put it into room ambient for (1~2) hours</p> <p>GB/T 5095.6 Method 11f / EIA-364-26B</p>	<p>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：20 mΩ Max. Contact resistance: 20 mΩ Max.</p>										
6.3.5	可焊性 Solderability	<p>把试验样品需要焊接的部位浸入焊锡炉中，锡炉温度(245±5) °C，时间(4~5)秒。</p> <p>Dip solder tails into the molten solder held at (245±5) °C for (4~5) seconds</p> <p>IPC EIA IPC JEDEC J STD 002E</p>	<p>上锡率≥95%： Solder coverage: ≥95%</p>										
6.3.6	硫化氢气体测试 (H ₂ S gas test)	<p>连接器配合后，在温度(40±3)°C、湿度75%、H₂S 气体浓度为3ppm 的环境中放置96 小时。</p> <p>Mated connectors exposed to the condition of temperature (40 ±3) °C, humidity 75%, H₂S gas concentration of 3ppm for 96 hours.</p>	<p>外观：无影响性能的损伤 Appearance: no damage to performance 接触电阻：0.02Ω Max. Contact resistance: 0.02Ω Max.</p>										
6.3.7	工业气体(氨气) Industrial gas(Ammonia)(NH ₃)	<p>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。</p> <p>After 7 hours exposure in ammonia chamber with 25 mL of 3% ammonia solution for every liter of chamber capacity.</p>	<p>无应力腐蚀开裂 No stress corrosion cracking</p>										
6.3.8	耐焊接热 Resistance to soldering heat	<p>耐波峰焊热：把试验样品需要焊接的部位浸入焊锡炉中，锡炉温度(260±5)°C；时间(5±1)秒后，在正常条件下恢复(1~2)小时。(温度曲线见图1)</p> <p>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)</p>	<p>外观：无损伤(参照6.1.1) Appearance: no damage.(refer to 6.1.1)</p>										

产品名称 Product Name:	TJC50016 系列连接器	编号 Document No.	PS4124	版本号 Version No.	V2
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Pb-free Wave soldering Temperture profile



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

图 1 波峰焊曲线图

产品名称 Product Name:	TJC50016 系列连接器	编号 Document No.	PS4124	版本号 Version No.	V2
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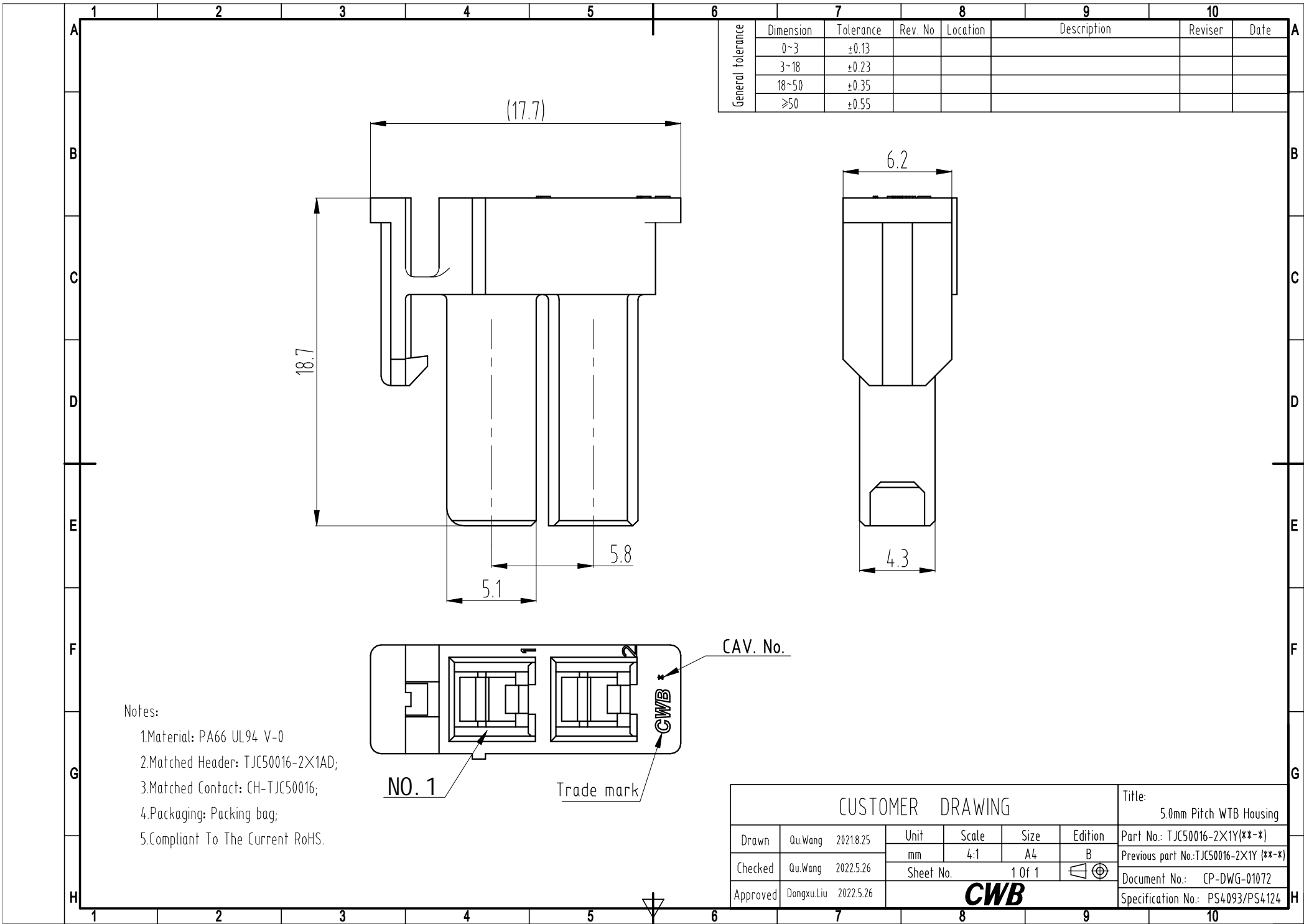
产品规格书

PRODUCT SPECIFICATION

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

测试组 GROUP NUMBER	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S
外观 Appearance	1	1	1	1	1	1,5	1,5	1	1	1,3	1	1,7	1,7	1,7	1,5	1	1	1,3	1,3
端子固定力 Retention force for contact	2																		
针的固定力 Retention force for pin		2																	
插簧与插针的插入力 Insertion force for pin in the contact			2																
成品插入力与拔出力(去锁扣) Insertion and withdrawal force for connector(without lock)				2															
压着部位抗张强度 Crimping of pull out force					2														
机械振动 Vibration						3													
机械寿命 Durability							3												
接触电阻 Low level contact resistance						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						
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				
可焊性 Solderability																2			
工业气体(H ₂ S) Industrial gas(H ₂ S)																	3		
工业气体(氨气) Industrial gas(Ammonia)(NH ₃)																		2	
耐焊接热 Resistance to soldering heat																			2

产品名称 Product Name:	TJC50016 系列连接器	编号 Document No.	PS4124	版本号 Version No.	V2
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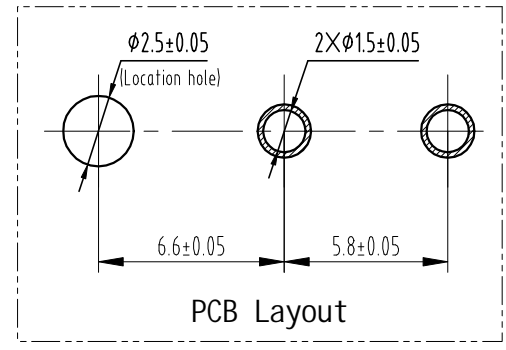
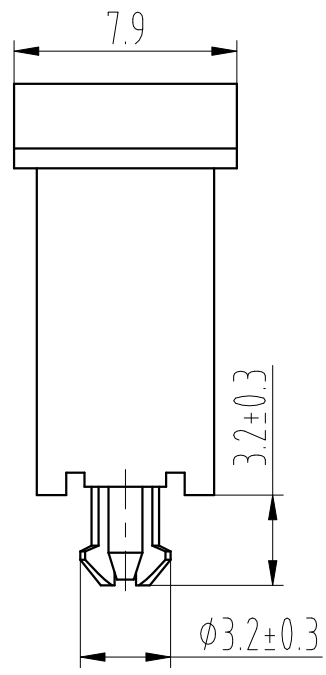
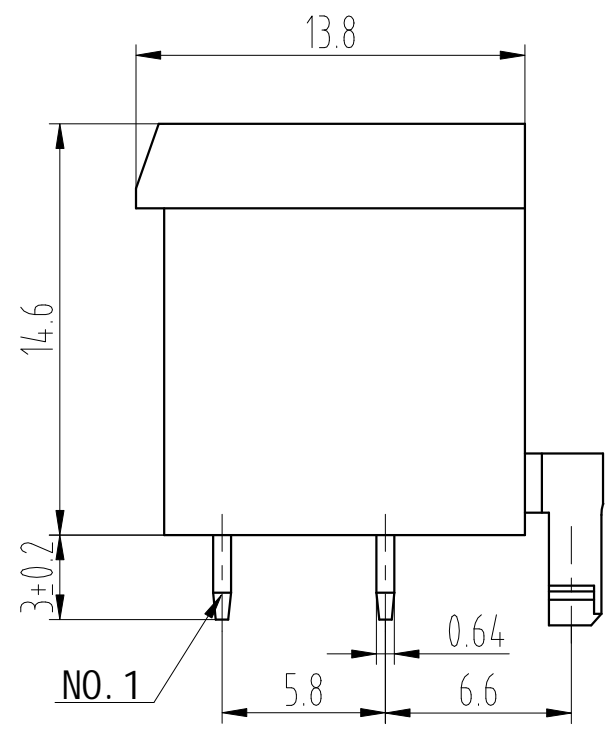
General Tolerance	Dimension	Tolerance	Rev. No	Location	Description	Reviser	Date
	0~3	±0.13					
	3~18	±0.23					
	18~50	±0.35					
	≥50	±0.55					

Notes:

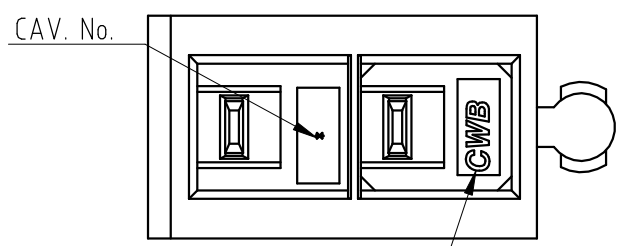
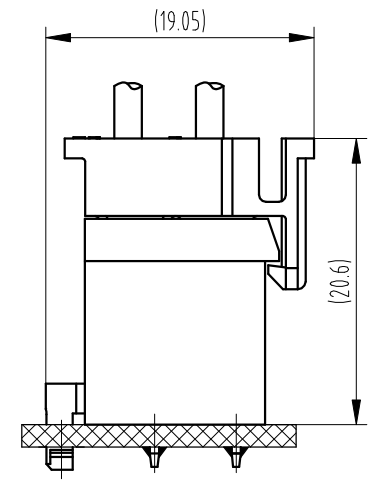
- 1. Material: PA66 UL94 V-0
- 2. Matched Header: TJC50016-2X1AD;
- 3. Matched Contact: CH-TJC50016;
- 4. Packaging: Packing bag;
- 5. Compliant To The Current RoHS.

CUSTOMER DRAWING						Title: 5.0mm Pitch WTB Housing	
Drawn	Qu.Wang	2021.8.25	Unit	Scale	Size	Edition	Part No.: TJC50016-2X1Y(**-*)
Checked	Qu.Wang	2022.5.26	mm	4:1	A4	B	Previous part No.:TJC50016-2X1Y (**-*)
Approved	Dongxu.Liu	2022.5.26	Sheet No.	1 Of 1			Document No.: CP-DWG-01072
CWB						Specification No.: PS4093/PS4124	

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					



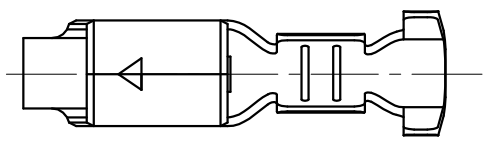
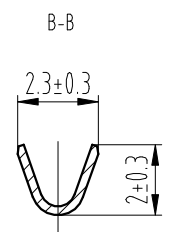
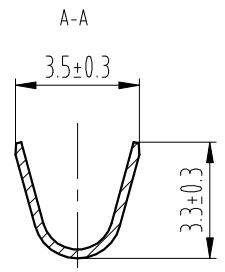
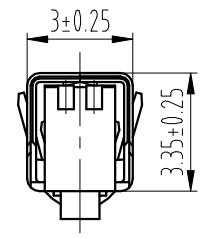
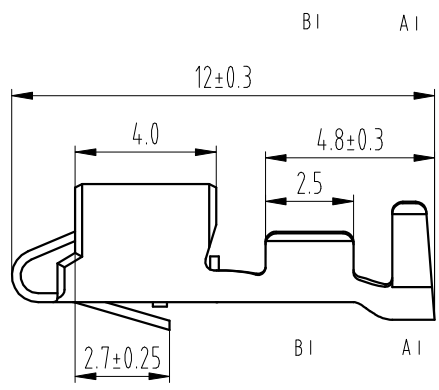
Assembly View
(DIM FYI)



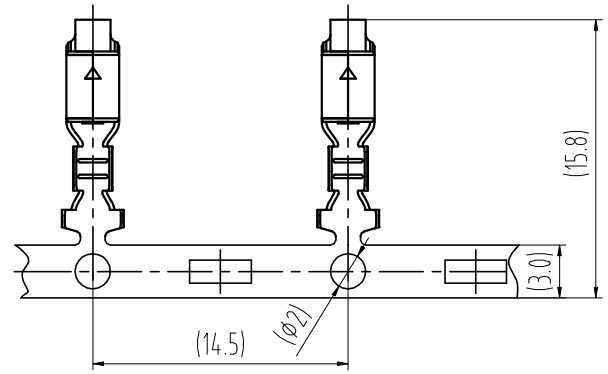
- Notes:
1. Material: PA66 UL94 V-0;
Brass, Tin over nickel Plated;
 2. Matched Housing: TJC50016-2x1Y;
 3. Packaging: Packing bag;
 4. Compliant To The Current RoHS.

CUSTOMER DRAWING						Title:	
Drawn	Qu.Wang	2021.8.25	Unit	Scale	Size	Edition	Part No.: TJC50016-2X1AD(**-*)
Checked	Qu.Wang	2022.5.26	mm	4:1	A4	B	Previous part No.: TJC50016-2X1AD (**-*)
Approved	Dongxu.Liu	2022.5.26	Sheet No.	1 of 1			Document No.: CP-DWG-01073
CWB						Specification No.: PS4093/PS4124	

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					



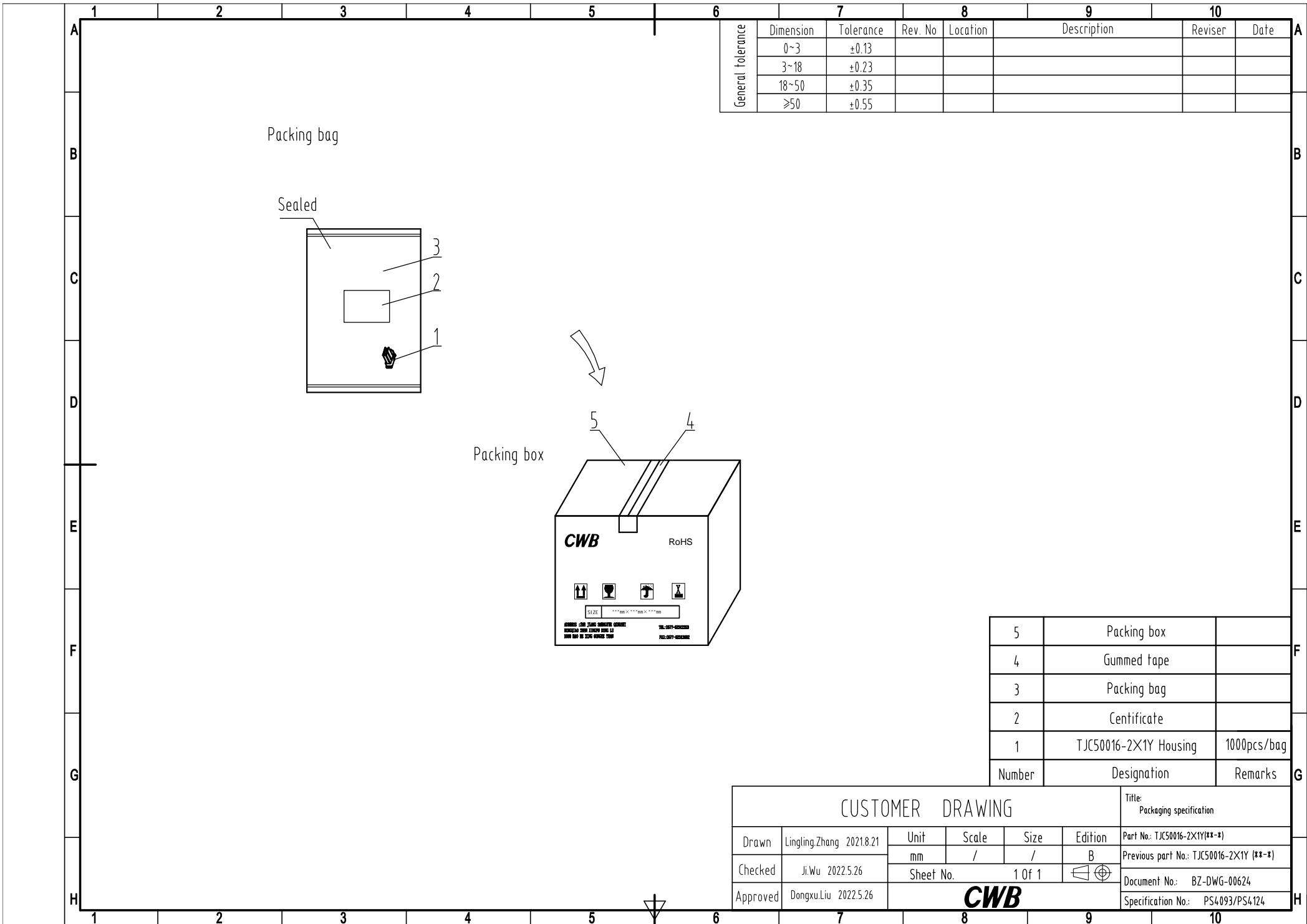
Contact View
1: 2



Notes:

- 1. Material: Phosphor Bronze; Thickness: 0.25mm
- 2. Surface Finish: Tin Plated;
- 3. Matched Housing: TJC50016-2X1Y;
- 4. Conductor Size: RV-90-0.3mm², AWG#22 ~ AWG#26;
- 5. Compliant To The Current RoHS.

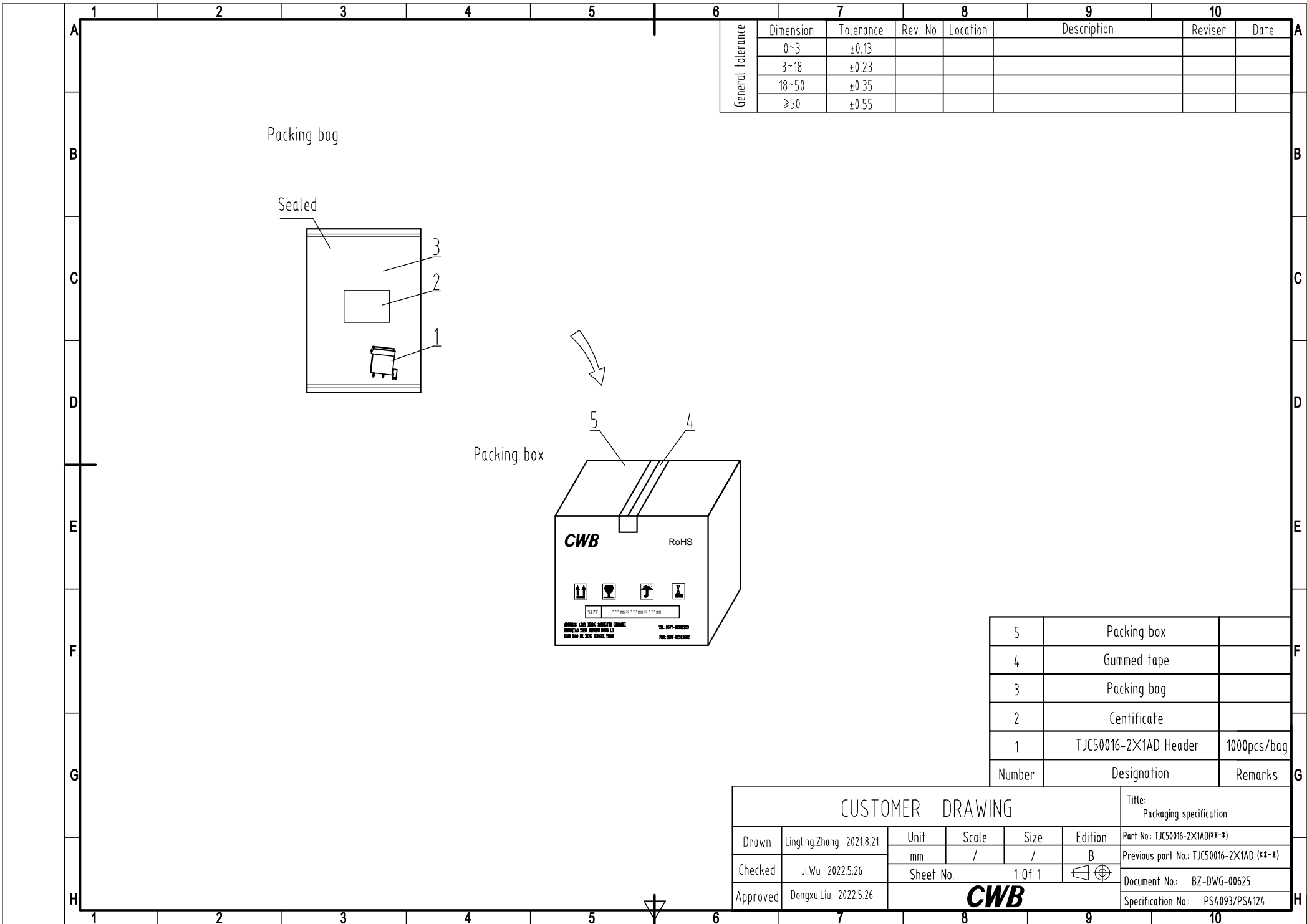
CUSTOMER DRAWING						Title: 5.0mm pitch WTB Contact	
Drawn	Lingling Zhang 2021.8.21	Unit	Scale	Size	Edition	Part No.: CH-TJC50016-**	
Checked	Ji.Wu 2022.5.26	mm	5:1	A4	B	Previous part No.: CH-TJC50016 D	
		Sheet No.		1 Of 1		Document No.: CP-DWG-01074	
Approved	Dongxu.Liu 2022.5.26	CWB				Specification No.: PS4093/PS4124	



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

5	Packing box	
4	Gummed tape	
3	Packing bag	
2	Certificate	
1	TJCS0016-2X1Y Housing	1000pcs/bag
Number	Designation	Remarks

CUSTOMER DRAWING						Title: Packaging specification	
Drawn	Lingling.Zhang 2021.8.21	Unit	Scale	Size	Edition	Part No.: TJCS0016-2X1Y(**-*)	
Checked	Ji.Wu 2022.5.26	mm	/	/	B	Previous part No.: TJCS0016-2X1Y (**-*)	
Approved	Dongxu.Liu 2022.5.26	Sheet No.		1 Of 1		Document No.: BZ-DWG-00624	
CWB						Specification No.: PS4.093/PS4.124	

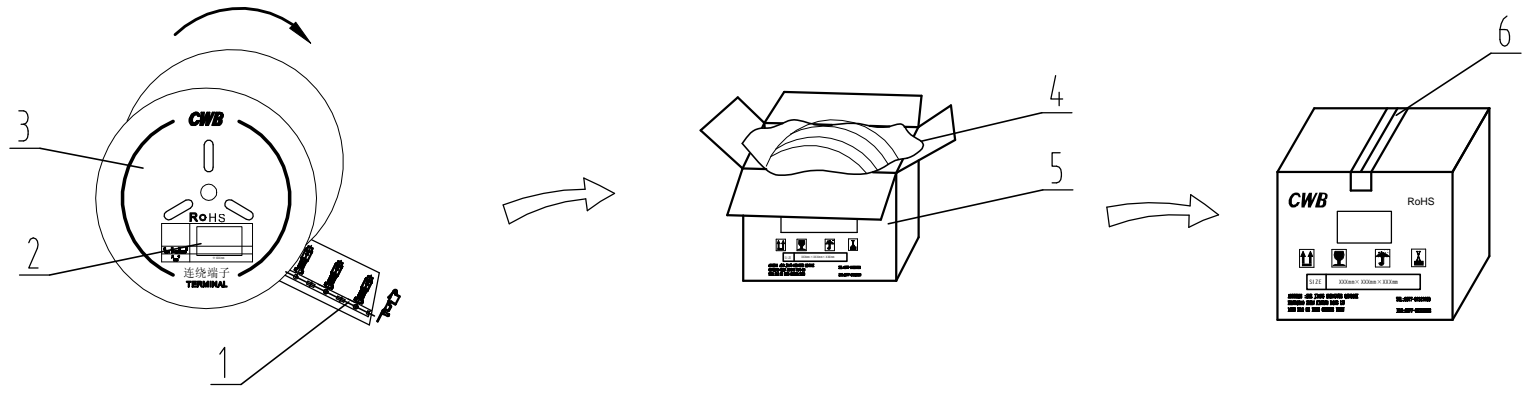


General Tolerance	Dimension	Tolerance	Rev. No	Location	Description	Reviser	Date
	0~3	±0.13					
	3~18	±0.23					
	18~50	±0.35					
	≥50	±0.55					

Number	Designation	Remarks
5	Packing box	
4	Gummed tape	
3	Packing bag	
2	Certificate	
1	TJCS0016-2X1AD Header	1000pcs/bag

CUSTOMER DRAWING						Title: Packaging specification	
Drawn	Lingling.Zhang 2021.8.21	Unit	Scale	Size	Edition	Part No.: TJCS0016-2X1AD(**-#)	
Checked	Ji.Wu 2022.5.26	mm	/	/	B	Previous part No.: TJCS0016-2X1AD (**-#)	
Approved	Dongxu.Liu 2022.5.26	Sheet No.		1 Of 1		Document No.: BZ-DWG-00625	
CWB						Specification No.: PS4.093/PS4.124	

General Tolerance	Dimension	Tolerance	Rev. No	Location	Description	Reviser	Date
	0~3	±0.13	/	F10	Change package quantity	Lingling.Zhang	2022.5.25
	3~18	±0.23					
	18~50	±0.35					
	≥50	±0.55					



Number	Designation	Remarks
6	Gummed tape	
5	Packing box	39K/box
4	Packing bag	39K/bag
3	Reel	3K/reel
2	Certificate	
1	CH-TJC50016 Contact	

CUSTOMER DRAWING						Title: Packaging specification	
Drawn	Lingling.Zhang 2021.8.21	Unit	Scale	Size	Edition	Part No.: CH-TJC50016-**	
Checked	Ji.Wu 2022.5.26	mm	/	/	B	Previous part No.: CH-TJC50016 D	
Approved	Dongxu.Liu 2022.5.26	Sheet No. 1 Of 1				Document No.: BZ-DWG-00626	
						Specification No.: PS4.093/PS4.124	

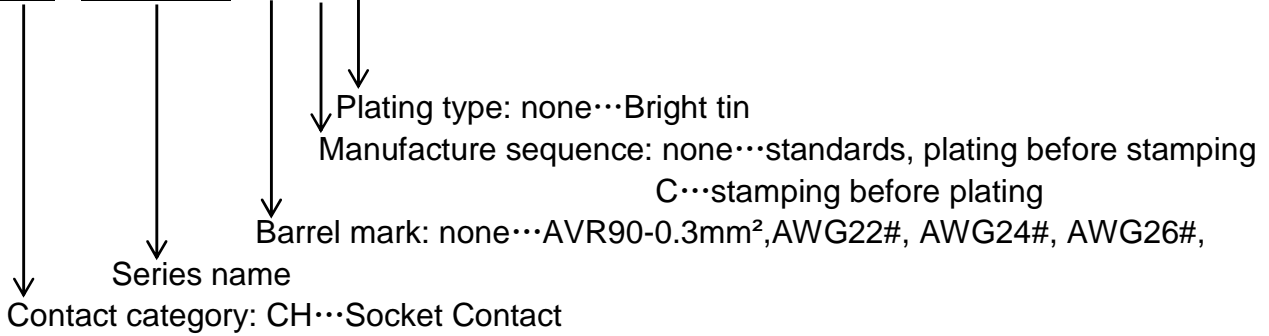
TJC50016 系列命名规则

TJC50016 series naming conventions

1. Contact

CH-TJC50016-*-*

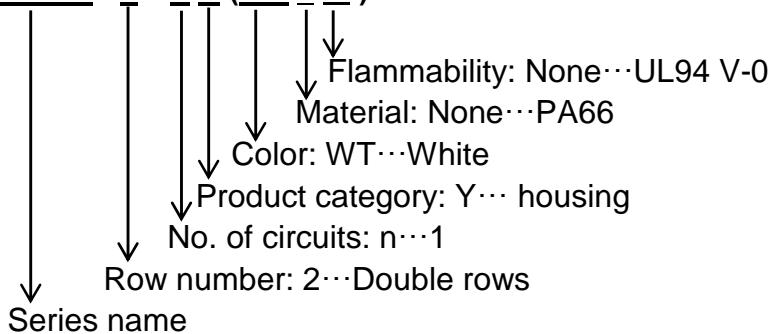
CH - TJC50016 - * - * *



2. Housing

TJC50016-2×nY(**-*)

TJC50016 - 2 × n Y (WT * - *)



3. DIP Header

TJC50016-2×1AD(**-*)

TJC50016 - 2 × n A D (WT * - *)

