

标题: TJC15014 系列连接器

Title: TJC15014 Connector

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	审核 Check: 王国英 2022. 9. 9	编号 Document No.: PS4148
	批准 Approval: 刘冬旭 2022. 9. 9	版本 Revision: V6



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	/	初版发行 First release	尹恒 2022/04/30 Heng.Yin 2022/04/30
V1	/	更新 TJC15014-nYI 压接适用范围 Updated TJC15014-nYI crimp scope	尹恒 2022/07/13 Heng.Yin 2022/07/13
V2	/	新增压着式孔座成品插拔力试验 Inserting and pulling force test of new pressurized hole seat	尹恒 2022/09/09 Heng.Yin 2022/09/09
V3	/	新增 TJC15014-nRP 产品 TJC15014-nRP product added	尹恒 2023/02/20 Heng.Yin 2023/02/20
V4	/	更新端子压接不同型号导线的额定电流 Updated the rated current of the terminals crimping different types of wires	胡杰斌 2023/04/08 Jiebin.Hu 2023/04/08
V5	/	新增 TJC15014-nAWDK TJC15014-nAWDK product added	连云龙 2024/02/26 Yunlong.Lian 2024/02/26
V6	/	命名规则新增颜色 Naming rule adds color	徐秋秋 2024/11/30 Qiuqiu.Xu 2024/11/30
	/		

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 1.5 阴型 & 阳型电子连接器，产品名称：TJC15014 系列连接器。

This product specification covers the requirement for wire to board 1.5mm pitch Receptacle & Plug connector, which are designed and manufactured by CWB Electronics(ZheJiang) Co.,LTD. P/N: TJC15014 Connector.

3.产品描述 Product description

TJC15014 系列连接器产品为家电连接器产品，产品部件组成如下：

The TJC15014 series connector designed for home appliances connection. part checklist as following form:

Part name 产品名称	Part No. 规格型号	Previous part No. 曾用规格型号	Description 描述
插簧 Contact	CH-ZH-**-*	ZH	AWG#28~AWG#26
孔座 Housing	TJC15014-nY(**-*)	/	Wafer: PBT UL94V-0
阴连接器（绝缘位移连接） Receptacle (IDC)	TJC15014-nYI (**-*)	/	Wafer: PA66+GF UL94V-0 GWT750℃ Post: Phosphor bronze, tin plated
阳连接器（立式，直插，含小弯） Header (V, DIP, W/kink)	TJC15014-nADK (**-*)	/	Wafer: PA66+GF UL94V-0 GWT750℃ Post: Brass, tin plated
阳连接器（卧式，表面装贴） Header(H, SMT)	TJC15014-nAWB(**-*)	/	Wafer:PA9T+GF UL94V-0 Post: Brass, tin plated
阳连接器（卧式，直插，含挡板， 含定位柱） Header(H,DIP,W/Kink,W/PCB stabilizer, W/Boss)	TJC15014-nAWDK(**-*)	/	Wafer:PA66+GF UL94V-0 Post: Brass, tin plated
中继连接器 Relay	TJC15014-nRP(**-*)	/	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

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产品规格书

PRODUCT SPECIFICATION

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

Solderability Tests for Component Leads, Terminations, Lugs, Terminals and Wires

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#26	AWG#28
	2A Max	1A Max
适用 PCB 板 Applicable PCB	Board thickness: 1.6mm Hole diameter: $\phi 0.8(+0.1/-0)$ mm	
额定电压[AC(有效值)/DC] Rated voltage [AC(rms)/DC]	100V	
使用温度范围（包含温升） Operating temperature range (include temperature rise)	-25°C~+85°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)	Crimp Conn.	Wire size: AWG#28~AWG#26 (0.08mm $\pm$ 0.13 mm) Insulation diameter: $\phi 0.83$ mm- $\phi 1.08$ mm
	IDC Conn.	Wire size: AWG#28~AWG#26 (0.08mm $\pm$ 0.13 mm) Recommended UL Grade: UL10272、UL11079 Insulation diameter: $\phi 0.70$ mm- $\phi 0.83$ mm

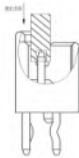
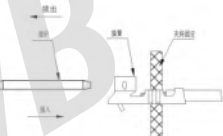
备注：使用上述范围以外导线时，请咨询。

Note: please consult when using wires outside the above range.

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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 5095.2 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 broken, crack, and deformations that affect use, etc. 2 金属件表面无锈蚀、氧化、无明显的机械损伤及电镀层脱落等缺陷。 Metal part: bright and even surface without rust, oxide, fog and obvious physical damage, etc.	
6.1.2	端子插入力 与固定力 Insertion force and retention force for contact	应测量将端子沿轴线方向插入孔座和拔出孔座的力，测试速度1~5 mm/sec。 The force of inserting and pulling the contact into and out of the housing along the axis shall be measured (Testing speed: 1~5 mm/sec.) 	插入力 (最大值) Insertion force (Max.)	固定力 (最小值) Retention force (Min.)
			8N	10N
6.1.3	针的固定力 Post retention force	沿插针轴线方向施加推力，测量将插针从塑件上分离的力，测试速度不大于 25 mm/min。 The end of a post shall be pushed in a direction perpendicular to a wafer. The load required to make the post start moving from the wafer shall be measured. (Testing speed: <25 mm/min.) 	10N Min	
6.1.4	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.) 	插入力 (最大值) Insertion force (Max.)	拔出力 (最小值) Withdrawal force (Min.)
			9.8N	0.2N

GB/T 5095.7 Method 13b / EIA-364-13B

产品名称
Product name

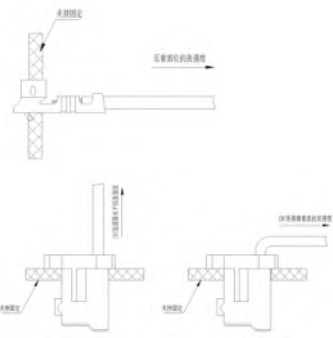
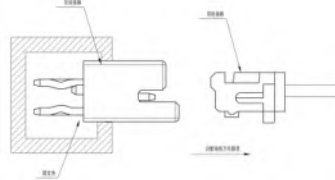
TJC15014 系列连接器

编号
Document No.

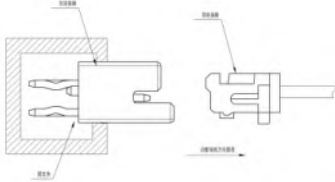
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6.1.5	压着部位抗张强度 Crimp tensile strength	在已压接端子的头部和导线上施加拉力，并测量将导线从端子拉出或导线断裂所需的力，测试速度 1~5 mm/sec。 Pulling load shall be applied to a correctly crimped contact and a wire. The load required to pull the wire out of the contact or break the wire shall be measured. (Testing speed: 1~5 mm/sec.)  GB/T5095.8 Method 16d / EIA-364-08B	压着式连接器 Crimp Conn. AWG# 28: 10N Min AWG#26: 20N Min. 刺破式连接器 IDC Conn. 垂直张力: AWG #27: 7N Min AWG #26: 7N Min. 水平张力: AWG#27: 10N Min AWG#26: 15N Min.			
6.1.6	成品插入力与拔出力 Insertion force and withdrawal force	将装有已压接端子的IDC阴连接器与阳连接器做插入和拔出，测量首次插入力、首次拔出力及第50次拔出力，测试速度1~5 mm/sec。 A housing with IDC contacts and a header shall be mated and unmated on the mating axis. Initial insertion and withdrawal forces and withdrawal force at 50th shall be measured. (Testing speed: 1~5 mm/sec.) GB/T 5095.7 Method 13b / EIA-364-13B 	极数 No. of poles	插入力（最大值） Insertion (Max.) 初次 1st.	拔出力（最小值） Withdrawal (Min.) 初次 1st. 第五十次 50th.	
			2	25	8	5
			3	30	8	5
			4	35	9	6
			5	40	10	7
			6	40	11	8
			7	45	12	8
			8	45	13	9
			9	50	14	10
			10	50	15	10
			11	55	16	11
			12	60	17	11
			13	60	18	12
			14	65	19	13
			15	65	20	14
			16	70	21	14
			17	70	22	15
			18	75	23	16
			19	75	24	16
			20	80	25	17
6.1.7	成品插入力与拔出力 Insertion force and withdrawal force	将装有已压接端子的孔座与阳连接器做插入和拔出，测量首次插入力、首次拔出力及第50次拔出力，测试速度1~5 mm/sec。 A housing with crimped and a header shall be mated and unmated on the mating axis. Initial insertion and withdrawal forces and withdrawal force at 50th shall be measured. (Testing speed: 1~5 mm/sec.) GB/T 5095.7 Method 13b / EIA-364-13B	极数 No. of poles	插入力（最大值） Insertion (Max.) 初次 1st.	拔出力（最小值） Withdrawal (Min.) 初次 1st. 第五十次 50th.	
			2	25	5	2
			3	30	7.5	3
			4	35	10	4
			5	40	12.5	5
			6	42	15	6
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	7	49	17.5	7
	8	56	20	8
	9	63	22.5	9
	10	70	25	10
	11	77	27.5	11
	12	84	30	12
	13	91	32.5	13
	14	98	35	14
	15	105	37.5	15
	16	112	40	16
	17	119	42.5	17
	18	126	45	18
	19	133	47.5	19
	20	140	50	20

6.1.8	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: 20mΩ Max. Contact resistance: 20mΩ Max. 电流中断时间: 1μsec Max Current interruption: 1μsec Max
6.1.9	机械冲击 Shock	连接器相配, 沿XYZ三轴正反方向各冲击3次(总共18次), 在测试过程中通以100mA电流 冲击强度: 490m/s² 持续时间: 11ms Mate connectors and subject them to the following shock conditions, 3 times of shock shall be applied for each 6 directions along 3 mutually perpendicular axes, passing DC 100mA current during the test.(total of 18 shocks) Test pulse: 490m/s² Duration: 11ms GB/T 5095.4 Method 6c / EIA-364-27B	外观: 无损伤 (参照6.1.1) Appearance: no damage.(refer to 6.1.1) 电流中断时间: 1μsec Max Current interruption: 1μsec Max
6.1.10	机械寿命 Durability	以 50mm/min 速度插拔 50 次 50 cycles for mating and unmating test at the speed of 50mm/min 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.

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 (使用 AWG#26) Mate connectors with dry circuit to test contact resistance(Apply AWG#26) GB/T 5095.2 Method 2a / EIA-364-23B	10m Ω Max. (Initial) 20m Ω Max. (Final)
6.2.2	绝缘电阻 Insulation resistance	在相邻接触件之间或地线之间,用 500V DC 电压进行测试 Apply a voltage of 500V DC between adjacent contacts and between contacts to ground. GB/T 5095.2 Method 3a / EIA-364-21C	500 MΩ Min. (Initial) 300 MΩ Min. (Final)

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6.2.3	耐电压 Withstand voltage	相邻接触件之间或地线之间施加 500V AC (有效值),漏电流 1mA 的电压作用,时间 1min. Apply a voltage of 500V AC (rms) and leakage current of 1mA between adjacent contacts or ground cables for 1 minute. GB/T 5095.2 Method 4a / EIA-364-20B	外观: 无击穿和飞弧现象 Appearance: no breakdown or flashover
6.2.4	温升 Temperature rise	插合连接器, 通以最大允许电流, 测温度的差值 Mate connectors and measure the temperature rise of contact when the maximum AC rated current is passed. GB/T 5095.3 Method 5a / EIA-364-70A	$\Delta 30^{\circ}\text{C}$ Max.

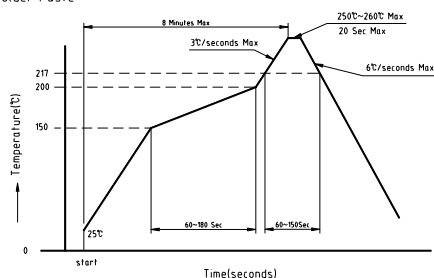
6.3 环境性能 Environmental

序号 No.	项 目 Item	测试条件 Test condition	规 格 Requirement										
6.3.1	耐高温 Heat resistance	连接器配合后, 于 (85±2)℃ 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 (85±2)℃ 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.										
6.3.2	耐低温 Cold resistance	连接器配合后, 于 (-40±2)℃ 的空气中放置 500 小时, 再回到室温中放置 (1~2) 小时测定 Mated connectors exposed to the condition of (-40±2)℃ for 500hours, recovery time (1~2) hours GB/T 5095.6 Method 11j / 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.										
6.3.3	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: 20mΩ Max. Contact resistance: 20mΩ Max. 绝缘电阻: 300 MΩ Min. Insulation resistance: 300 MΩ Min. 耐电压: 300V Min. Withstand voltage: 300V Min.										
6.3.4	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: 20mΩ Max. Contact resistance: 20mΩ Max. 绝缘电阻: 300 MΩ Min. Insulation resistance: 300 MΩ Min. 耐电压: 300V Min. Withstand voltage: 300V 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.												

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6.3.5	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: 20mΩ Max. Contact resistance: 20mΩ Max.
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±3)℃、湿度 80±5%、H ₂ S 气体浓度为 3±1ppm 的环境中放置 96 小时 Mated connectors exposed to the condition of temperature (40±3)℃, humidity 80±5%, H ₂ S gas concentration of 3±1ppm for 96 hours	接触电阻: 20mΩ Max. Contact resistance: 20mΩ Max.
6.3.7	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
6.3.8	二氧化硫气体 测试 (SO ₂ gas test)	连接器配合后, 在温度 (35±2)℃、湿度 95%、SO ₂ 气体浓度为 10±3ppm 的环境中放置 240 小时 Mated connectors exposed to the condition of temperature (35±2)℃, humidity 95%, SO ₂ gas concentration of 10 ±3ppm for 240 hours	接触电阻: 20mΩ Max. Contact resistance: 20mΩ Max.
6.3.9	可焊性 Solderability	把试验样品需要焊接的部位浸入焊锡炉中, 锡炉温度 (245±5)℃, 时间 (4~5) 秒 Dip solder tails into the molten solder held at (245±5) °C for (4~5) seconds EIA-364-52	上锡率≥90%: Solder coverage: ≥90%
6.3.10	耐焊接热 Resistance to soldering heat	耐波峰焊热: 把试验样品需要焊接的部位浸入焊锡炉中, 锡炉温度 (260±5)℃; 时间 (10±0.5) 秒后, 在正常条件下恢复 (1~2) 小时 手工焊接: 温度 (350±10)℃, 时间(1~2) seconds Resistance to wave soldering heat: Dip solder tails into the molten solder held at (260±5) °C for (10 ±0.5) seconds, recovery time (1~2) hours Manual soldering: (350±10)°C for (1~2) seconds 回流焊形式(适合 SMT 类产品): 按下图的条件测试耐焊接热 Reflow type: The specimen shall be tested resistance, to soldering heat in the following conditions.	外观: 无损伤 (参照6.1.1) Appearance: no damage.(refer to 6.1.1)

Recommended IR Reflow Temperature Profile:
1 Using Lead-Free Solder Paste



产品名称 Product name	TJC15014 系列连接器	编号 Document No.	PS4148	版本号 Version No.	V6
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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
外观 Appearance	1	1	1	1	1,5	1	1,5	1	1,5	1,5	1,7	1,7	1,5	2	1,3	1	1	1,3
端子插入力与固定力 Insertion force and retention force for contact	2																	
针的固定力 Post retention force		2																
压着部位抗张强度 Crimp tensile strength			2															
成品插入力与拔出力 Insertion force and withdrawal force				2														
机械振动Vibration					3													
机械冲击 Shock						2												
机械寿命 Durability							3											
接触电阻 Contact resistance					2,4		2,4		2,4	2,4	2,4	2,4	2,4	2,4		2,4		
绝缘电阻 Insulation resistance											5	5						
耐电压 Withstand voltage											6	6						
温升 Temperature rise								2										
耐高温 Heat resistance									3									
耐低温 Cold resistance										3								
恒定湿热 Humidity											3							
温度循环 Temperature cycling												3						
盐雾 Salt spray													3					
硫化氢气体测试 (H ₂ S gas test)														3				
工业气体(氨气)Industrial gas(Ammonia)(NH ₃)															2			
二氧化硫气体测试 (SO ₂ gas test)																3		
可焊性 Solderability																	2	
耐焊接热 Resistance to soldering heat																		2

产品名称
Product name

TJC15014 系列连接器

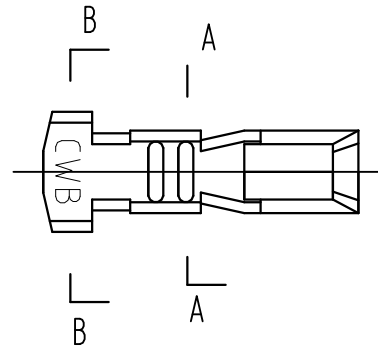
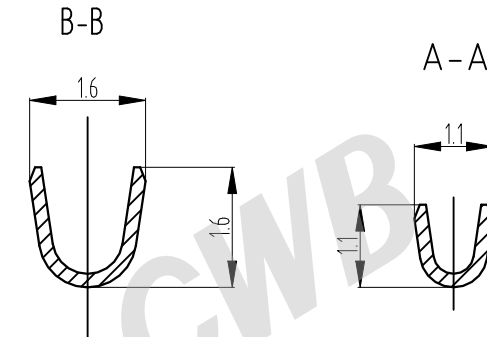
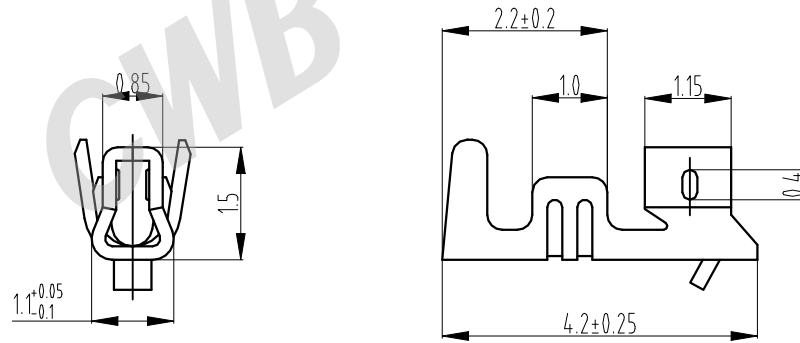
编号
Document No.

PS4148

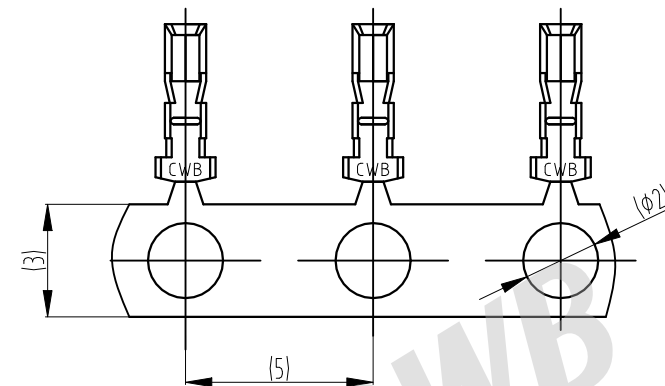
版本号
Version No.

V6

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



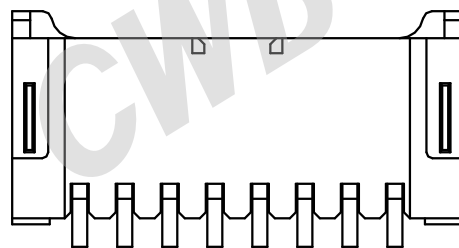
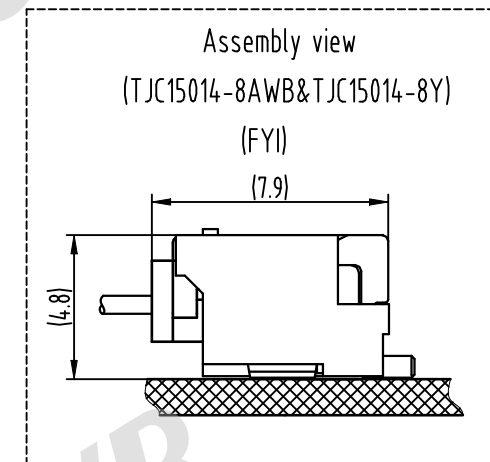
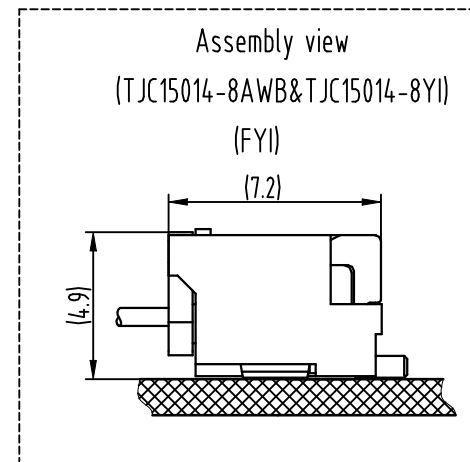
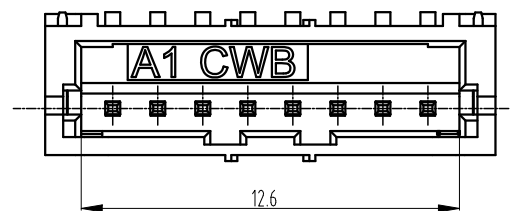
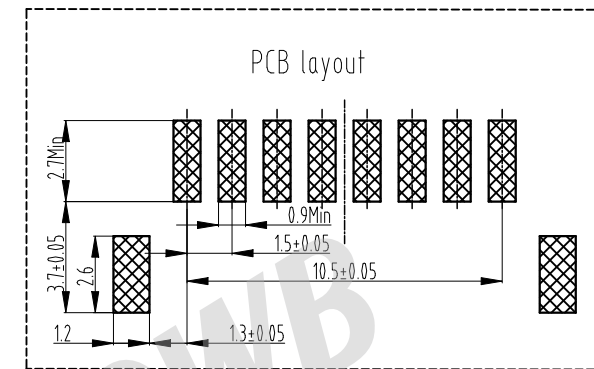
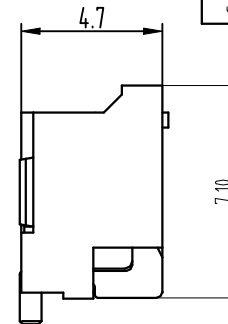
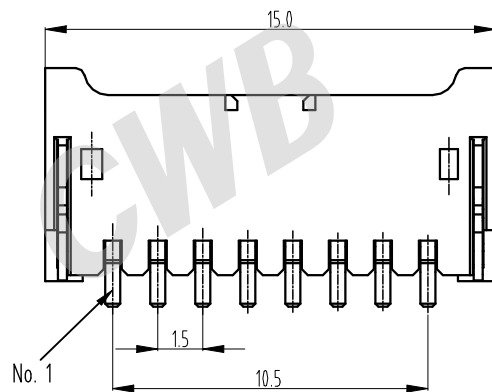
Notes:

- 1.Material: Phosphor bronze, thickness: 0.18mm
- 2.Surface finish: tin plated
- 3.Matched housing: ZH-nY/TJC15014-nY
- 4.Applicable wires: AWG#28~AWG#26
- 5.Compliant to the current RoHS

CUSTOMER DRAWING						Title: 1.5mm pitch WTB contact	
Drawn	Heng.Yin 2022.3.16	Unit	Scale	Size	Edition	Part No.: CH-ZH-**	
		mm	10:1	A4	B1	Previous part No.: CH-ZH	
Checked	Guoying.Wang 2022.3.16	Sheet No. 1 Of 1					Document No.: CP-DWG-01270
Approved	Dongxu.Liu 2022.3.17					Specification No.: PS4148	

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					

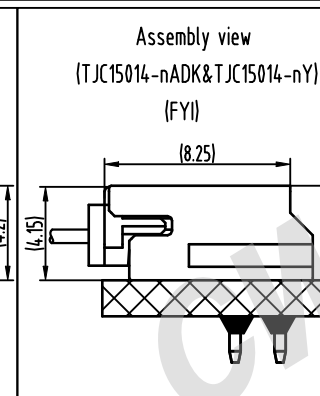
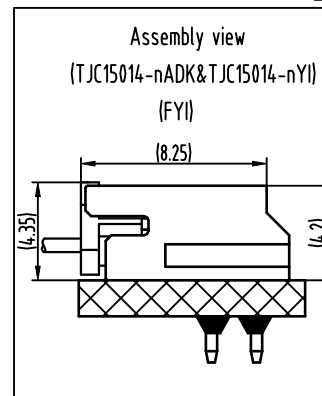
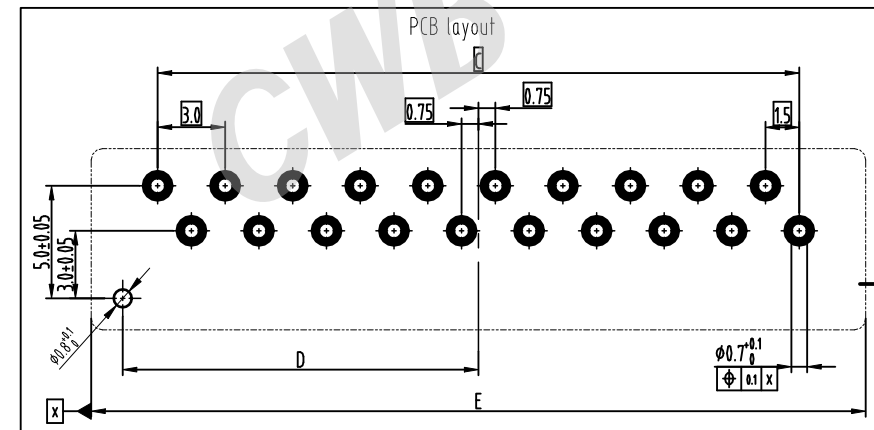
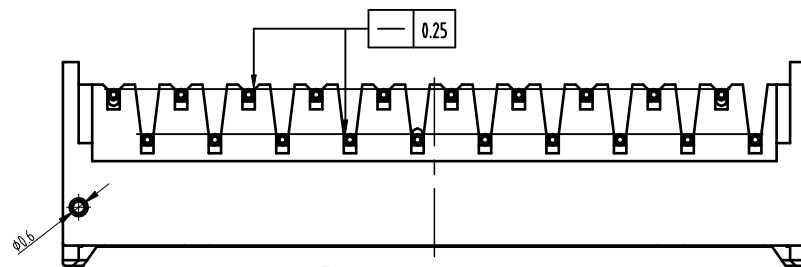
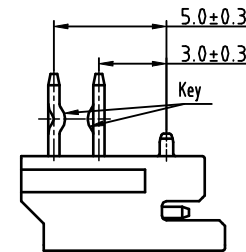
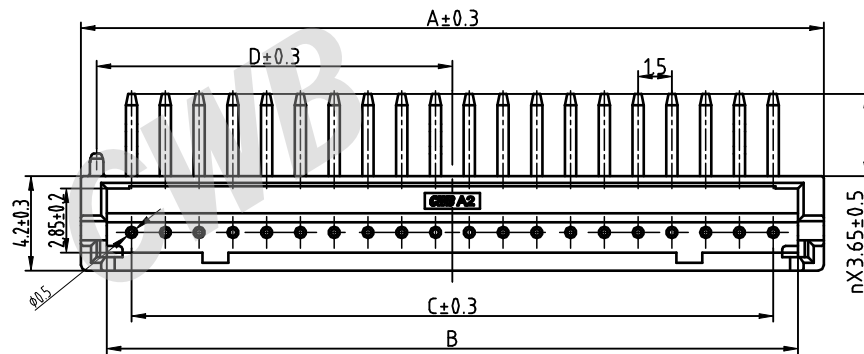


Notes:

- 1.Material: PA9T+GF UL94 V-0
Brass,tin plated
- 2.Matched housing: TJC15014-8YI/TJC15014-8Y
- 3.Packaging: packing bag
- 4.Compliant to the current RoHS

CUSTOMER DRAWING						Title: 15mm pitch WTB header
Drawn	Heng.Yin 2022.04.25	Unit	Scale	Size	Edition	Part No.: TJC15014-8AWB(**-*)
Checked	Guoying.Wang 2022.04.25	mm	5:1	A4	B0	Previous part No.: /
		Sheet No. 1 Of 1				 Document No.: CP-DWG-01409
Approved	Dongxu.Liu 2022.04.25	CWB				Specification No.: PS4148

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					



TJC15014-20AWDK	33.0	30.7	28.5	15.8	34.4	
TJC15014-19AWDK	31.5	29.2	27.0	15.05	32.9	
TJC15014-18AWDK	30.0	27.7	25.5	14.3	31.4	
TJC15014-17AWDK	28.5	26.2	24.0	13.55	29.9	
TJC15014-16AWDK	27.0	24.7	22.5	12.8	28.4	
TJC15014-15AWDK	25.5	23.2	21.0	12.05	26.9	
TJC15014-14AWDK	24.0	21.7	19.5	11.3	25.4	
TJC15014-13AWDK	22.5	20.2	18.0	10.55	23.9	
TJC15014-12AWDK	21.0	18.7	16.5	9.8	22.4	
TJC15014-11AWDK	19.5	17.2	15.0	9.05	20.9	
TJC15014-10AWDK	18.0	15.7	13.5	8.3	19.4	
TJC15014-9AWDK	16.5	14.2	12.0	7.55	17.9	
TJC15014-8AWDK	15.0	12.7	10.5	6.8	16.4	
TJC15014-7AWDK	13.5	11.2	9.0	6.05	14.9	
TJC15014-6AWDK	12.0	9.7	7.5	5.3	13.4	
TJC15014-5AWDK	10.5	8.2	6.0	4.55	11.9	
TJC15014-4AWDK	9.0	6.7	4.5	3.8	10.4	
TJC15014-3AWDK	7.5	5.2	3.0	3.05	8.9	
TJC15014-2AWDK	6.0	3.7	1.5	2.3	7.4	
品名	A	B	C	D	E	备注

Notes:

- 1.Material: PA66+GF UL94 V-0
Brass,tin plated
- 2.Matched housing: TJC15014-nYI/TJC15014-nY
- 3.Packaging: packing bag
- 4.Compliant to the current RoHS

CUSTOMER DRAWING

Title:
1.5mm pitch WTB header
Part No.: TJC15014-nAWDK(*-*-*)
Previous part No.: /
Document No.: CP-DWG-01759
Specification No.: PS4148

Drawn	Yunlong.Lian 2024.02.26	Unit	Scale	Size	Edition
Checked	Qu.Wang 2024.02.26	mm	5:1	A4	B0
Approved	Dongxu.Liu 2024.02.26	Sheet No.	1 Of 2		

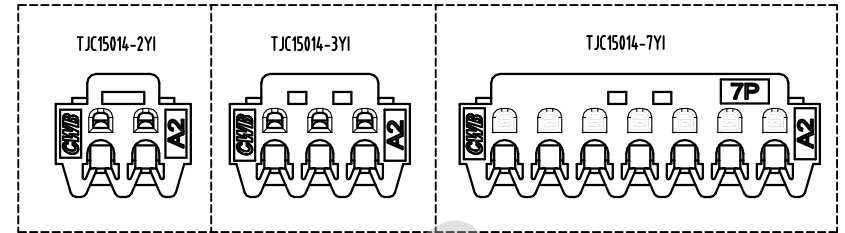
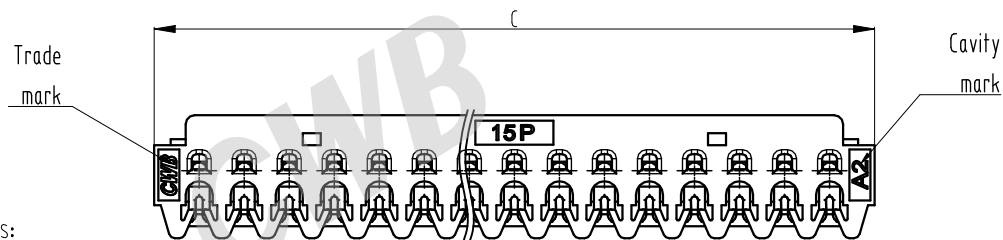
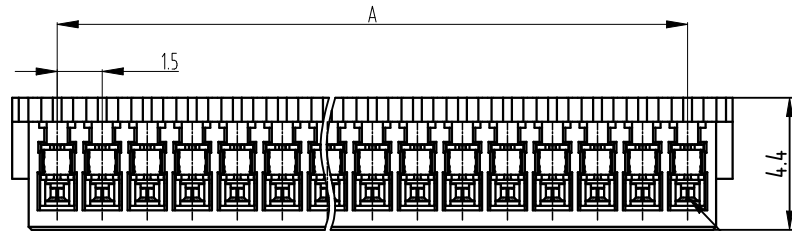
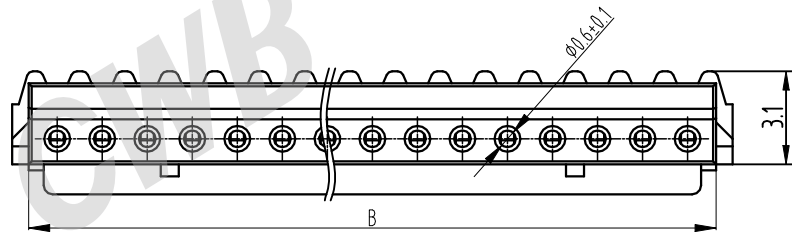
CWB

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					

× Key点针	○ 直针	20P	长	×	○	○	○	○	○	○	×	○	○	○	○	○	×	○				
		19P	长	×	○	○	○	○	○	○	○	○	○	○	○	○	○	×	○			
		18P	长	×	○	○	○	○	○	○	○	○	○	○	○	○	○	×	○			
		17P	长	×	○	○	○	○	○	○	○	○	○	○	○	○	○	×	○			
		16P	长	×	○	○	○	○	○	○	○	○	○	○	○	○	○	×	○			
		15P	长	×	○	○	○	○	○	○	○	○	○	○	○	○	○	×	○			
		14P	长	×	○	○	○	○	○	○	○	○	○	○	○	○	○	×	○			
		13P	长	×	○	○	○	○	○	○	○	○	○	○	○	○	○	×	○			
		12P	长	×	○	○	○	○	○	○	○	○	○	○	○	○	○	×	○			
		11P	长	×	○	○	○	○	○	○	○	○	○	○	○	○	○	×	○			
		10P	长	×	○	○	○	○	○	○	○	○	○	○	○	○	○	×	○			
		9P	长	×	○	○	○	○	○	○	○	○	○	○	○	○	○	×	○			
		8P	长	×	○	○	○	○	○	○	○	○	○	○	○	○	○	×	○			
		7P	长	×	○	○	○	○	○	○	○	○	○	○	○	○	○	×	○			
		6P	长	×	○	○	○	○	○	○	○	○	○	○	○	○	○	×	○			
		5P	长	×	○	○	○	○	○	○	○	○	○	○	○	○	○	×	○			
		4P	长	×	○	○	○	○	○	○	○	○	○	○	○	○	○	×	○			
		3P	长	×	○	○	○	○	○	○	○	○	○	○	○	○	○	×	○			
		2P	长	×	○	○	○	○	○	○	○	○	○	○	○	○	○	×	○			
					1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18

CUSTOMER DRAWING						Title: 1.5mm pitch WTB header	
Drawn	Yunlong.Lian 2024.02.26	Unit	Scale	Size	Edition	Part No.: TJC15014-nAWDK(*~*)	
Checked	Qu.Wang 2024.02.26	mm	5:1	A4	B0	Previous part No.: /	
Approved	Dongxu.Liu 2024.02.26	Sheet No.		2 Of 2		Document No.: CP-DWG-01759	
						Specification No.: PS4148	

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					



20	TJC15014-20YI	28.5	30.4	31.5
19	TJC15014-19YI	27.0	28.9	30.0
18	TJC15014-18YI	25.5	27.4	28.5
17	TJC15014-17YI	24.0	25.9	27.0
16	TJC15014-16YI	22.5	24.4	25.5
15	TJC15014-15YI	21.0	22.9	24.0
14	TJC15014-14YI	19.5	21.4	22.5
13	TJC15014-13YI	18.0	19.9	21.0
12	TJC15014-12YI	16.5	18.4	19.5
11	TJC15014-11YI	15.0	16.9	18.0
10	TJC15014-10YI	13.5	15.4	16.5
9	TJC15014-9YI	12.0	13.9	15.0
8	TJC15014-8YI	10.5	12.4	13.5
7	TJC15014-7YI	9.0	10.9	12.0
6	TJC15014-6YI	7.5	9.4	10.5
5	TJC15014-5YI	6.0	7.9	9.0
4	TJC15014-4YI	4.5	6.4	7.5
3	TJC15014-3YI	3.0	4.9	6.0
2	TJC15014-2YI	1.5	3.4	4.5
Ckts(n)	Part No.	Dimension		
		A	B	C

Notes:

1.Material:

Housing: PA66+GF UL94V-0 GWT750℃

Contact: Phosphor bronze, tin plated

2.Matched header: TJC15014 series header

Matched plug: CY925-*-*

Matched receptacle: CA925-*-*

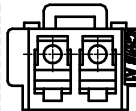
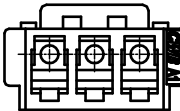
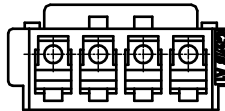
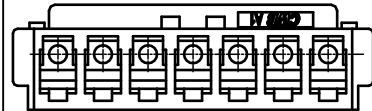
3.Wire size: AWG#28~AWG#26

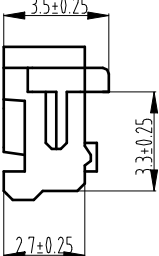
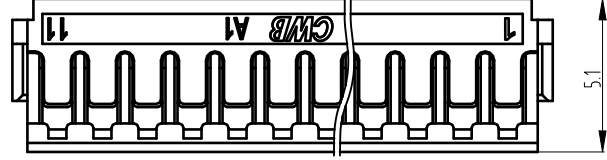
4.Packaging: packing bag

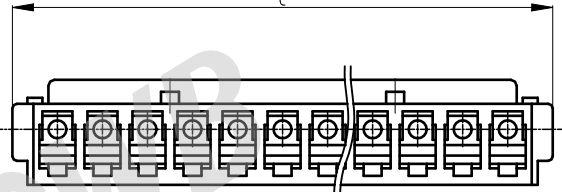
5.Compliant to the current RoHS

CUSTOMER DRAWING						Title: 1.5mm pitch WTB receptacle
Drawn	Heng.Yin 2022.04.25	Unit	Scale	Size	Edition	Part No.: TJC15014-nYI *(**~*)
		mm	5:1	A4	B0	Previous part No.: /
Checked	Guoying.Wang 2022.07.13	Sheet No. 1 Of 1				Document No.: CP-DWG-01561
Approved	Dongxu.Liu 2022.07.13	CWB				Specification No.: PS4148/PS4206

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

B						TJC15014-2Y	TJC15014-3Y	TJC15014-4Y	TJC15014-7Y	B
										
C										C

D											D
											

E											E
											

Notes:

1.Material: PBT UL94 V-0

2.Matched header: TJC15014 series header

Matched plug: CY925-*.*

6	TJC15014-6Y	7.5	9.5	10.5
5	TJC15014-5Y	6.0	8.0	9.0
4	TJC15014-4Y	4.5	6.5	7.5
3	TJC15014-3Y	3.0	5.0	6.0
2	TJC15014-2Y	1.5	3.5	4.5
Ckts(n)	Part No.	A	B	C
		Dimension		

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

Notes:

1.Material:

Wafer: PA66 UL94V-0

Post: brass, tin plated

2.Matched housing: TJC15014-nY/TJC15014-nYI

3.Packaging: Packing bag

4.Compliant to the current RoHS

CUSTOMER DRAWING						Title:		
						1.5mm pitch W/W relay		
Drawn	Heng.Yin 2023.02.17	Unit	Scale	Size	Edition	Part No.: TJC15014-nRP(**-*)		
Checked	Guoying.Wang 2023.02.17	mm	5:1	A4	B0	Previous part No.: /		
Approved	Dongxu.Liu 2023.02.17	Sheet No.		1 Of 1		Document No.: CP-DWG-01682		
						Specification No.: PS4148		

Notes:

1.Material:

Wafer: PA66 UL94V-0

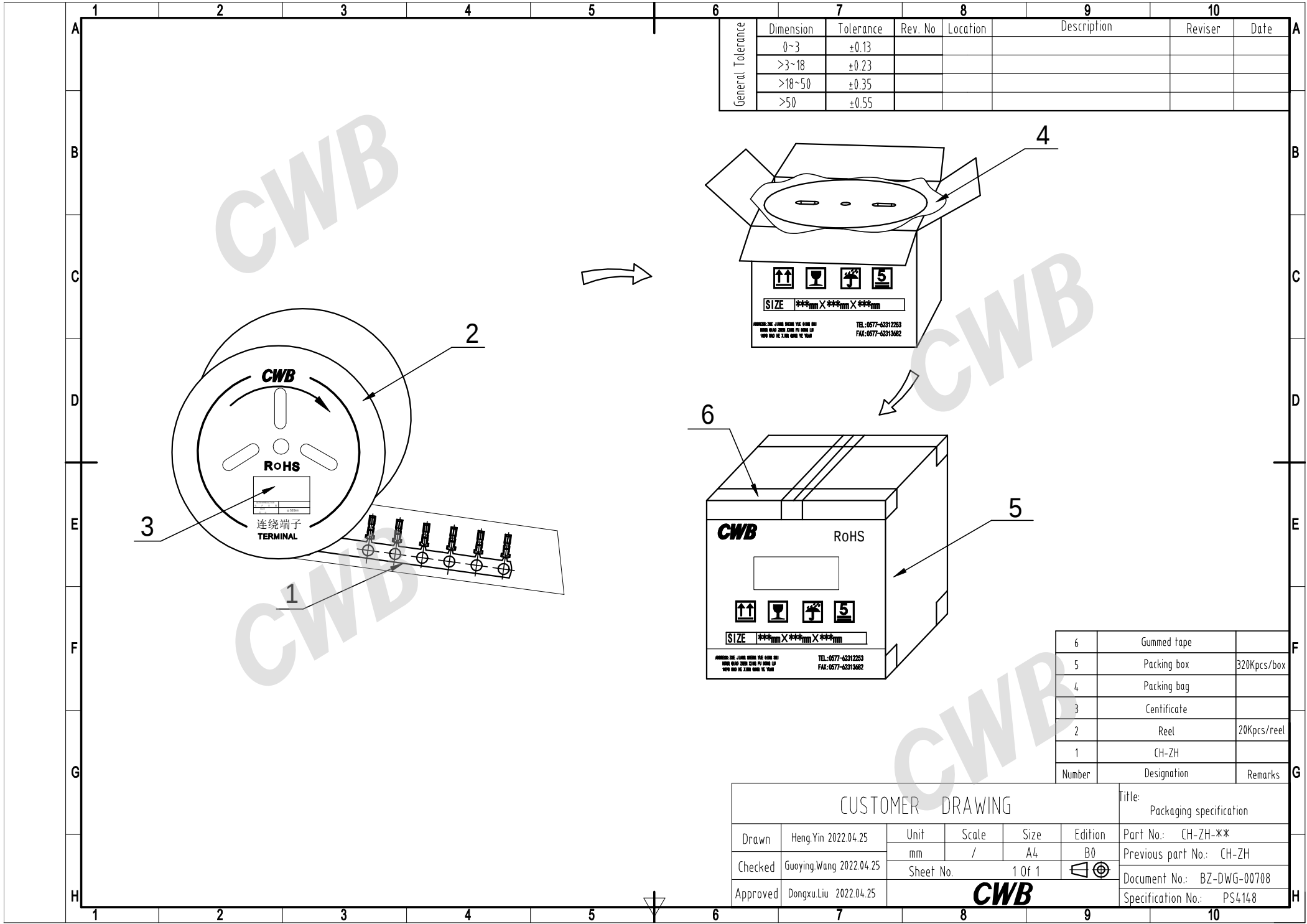
Post: brass, tin plated

2.Matched housing: TJC15014-nY/TJC15014-nYI

3.Packaging: Packing bag

4.Compliant to the current RoHS

CUSTOMER DRAWING						Title: 1.5mm pitch W/W relay	
Drawn	Heng.Yin 2023.02.17	Unit	Scale	Size	Edition	Part No.: TJC15014-nRP(**-*)	
Checked	Guoying.Wang 2023.02.17	mm	5:1	A4	B0	Previous part No.: /	
Approved	Dongxu.Liu 2023.02.17	Sheet No.		1 Of 1		Document No.: CP-DWG-01682	
						Specification No.: PS4148	

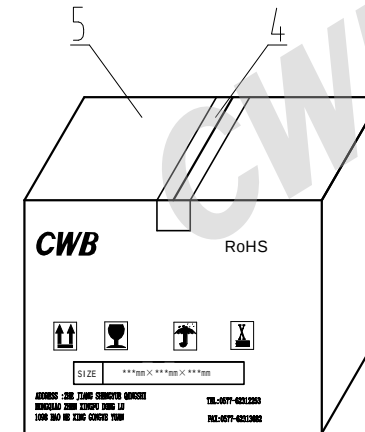
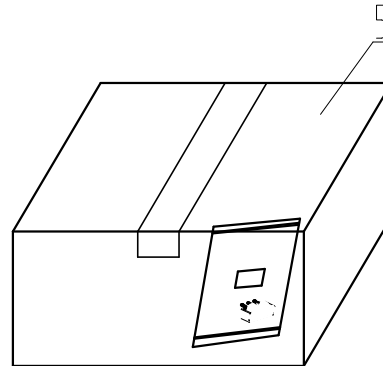
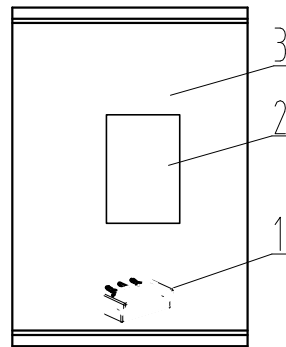


General tolerance	Dimension	Tolerance	Rev. No	Location	Description	Reviser	Date
	0~3	±0.13					
	3~18	±0.23					
	18~50	±0.35					
	50~120	±0.55					



Inner box

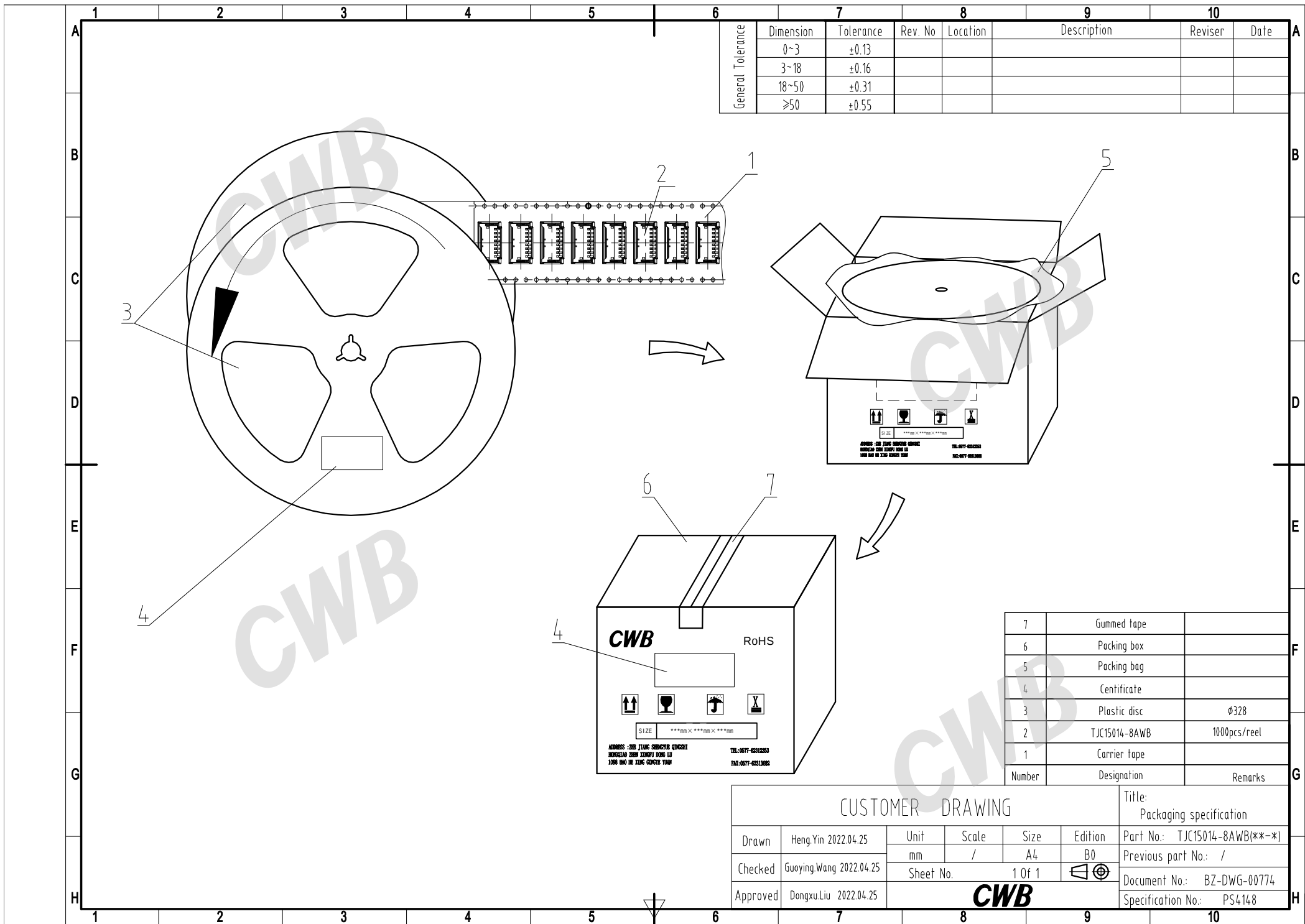
Packing box

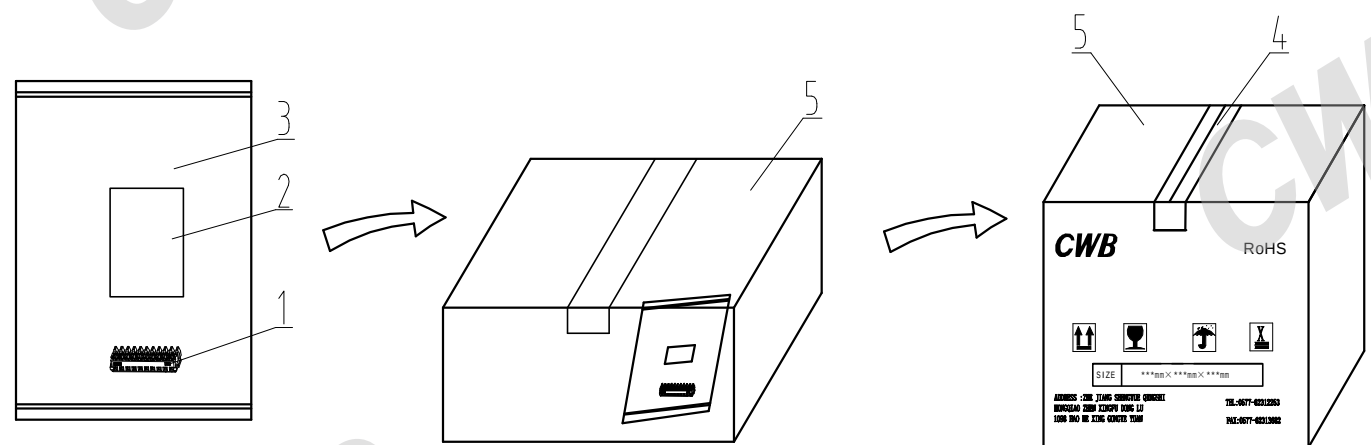


TJC15014-20ADK	500	
TJC15014-19ADK	500	
TJC15014-18ADK	500	
TJC15014-17ADK	500	
TJC15014-16ADK	500	
TJC15014-15ADK	500	
TJC15014-14ADK	1000	
TJC15014-13ADK	1000	
TJC15014-12ADK	1000	
TJC15014-11ADK	1000	
TJC15014-10ADK	1000	
TJC15014-9ADK	1000	
TJC15014-8ADK	1000	
TJC15014-7ADK	1000	
TJC15014-6ADK	1000	
TJC15014-5ADK	1000	
TJC15014-4ADK	1000	
TJC15014-3ADK	1000	
TJC15014-2ADK	1000	

5	Packing box
4	Gummed tape
3	Packing bag
2	Certificate
1	TJC15014-nADK
Number	Designation

CUSTOMER DRAWING						Title: Packaging specification
Drawn	Heng.Yin 2022.04.25	Unit	Scale	Size	Edition	Part No.: TJC15014-nADK *((**-*))
Checked	Guoying.Wang 2022.04.25	mm	/	A4	B0	Previous part No.: /
Approved	Dongxu.Liu 2022.04.25	Sheet No.	1 Of 1			Document No.: BZ-DWG-00836
CWB						Specification No.: PS4148



	1	2	3	4	5	6	7	8	9	10																																					
A						<table><tr><td rowspan="5">General tolerance</td><td>Dimension</td><td>Tolerance</td><td>Rev. No</td><td>Location</td><td>Description</td><td>Reviser</td><td>Date</td></tr><tr><td>0~3</td><td>±0.13</td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>3~18</td><td>±0.23</td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>18~50</td><td>±0.35</td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>50~120</td><td>±0.55</td><td></td><td></td><td></td><td></td><td></td></tr></table>		General tolerance	Dimension	Tolerance	Rev. No	Location	Description	Reviser	Date	0~3	±0.13						3~18	±0.23						18~50	±0.35						50~120	±0.55									A
General tolerance	Dimension	Tolerance	Rev. No	Location	Description	Reviser	Date																																								
	0~3	±0.13																																													
	3~18	±0.23																																													
	18~50	±0.35																																													
	50~120	±0.55																																													
B											B																																				
C	Packing bag Inner box Packing box 										C																																				
D											D																																				
E											E																																				
F											F																																				
G											G																																				
H											H																																				

TJC15014-20YI	1000	
TJC15014-19YI	1000	
TJC15014-18YI	1000	
TJC15014-17YI	1000	
TJC15014-16YI	1000	
TJC15014-15YI	1000	
TJC15014-14YI	1000	
TJC15014-13YI	1000	
TJC15014-12YI	1000	
TJC15014-11YI	1000	
TJC15014-10YI	1000	
TJC15014-9YI	1000	
TJC15014-8YI	1000	
TJC15014-7YI	1000	
TJC15014-6YI	1000	
TJC15014-5YI	1000	
TJC15014-4YI	1000	
TJC15014-3YI	1000	
TJC15014-2YI	1000	

5	Packing box
4	Gummed tape
3	Packing bag
2	Certificate
1	TJC15014 series receptacle

Number	Designation	Part No.	Pcs/bag	Remarks
Title: Packaging specification				
Part No.: TJC15014-nYI *(**~*)				
Previous part No.: /				
Document No.: BZ-DWG-00845				
Specification No.: PS4148				

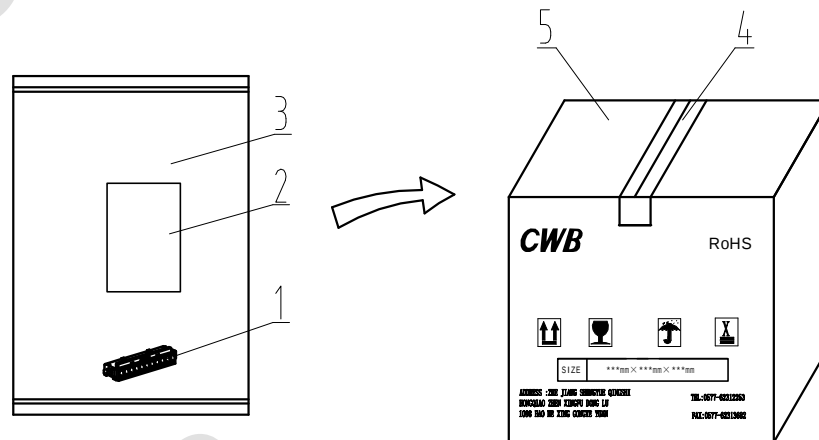
CUSTOMER DRAWING					
Drawn	Heng.Yin 2022.04.25	Unit	Scale	Size	Edition
Checked	Guoying.Wang 2022.04.25	mm	/	A4	B0
Approved	Dongxu.Liu 2022.04.25	Sheet No.		1 Of 1	

CWB

6		7		8		9		10	
General Tolerance	Dimension	Tolerance	Rev. No	Location	Description		Reviser	Date	A
	0~3	±0.13							
	3~18	±0.23							
	18~50	±0.35							
	50~120	±0.55							



Packing box



TJC15014-20Y	1000	
TJC15014-19Y	1000	
TJC15014-18Y	1000	
TJC15014-17Y	1000	
TJC15014-16Y	1000	
TJC15014-15Y	1000	
TJC15014-14Y	1000	
TJC15014-13Y	1000	
TJC15014-12Y	1000	
TJC15014-11Y	1000	
TJC15014-10Y	1000	
TJC15014-9Y	1000	
TJC15014-8Y	1000	
TJC15014-7Y	1000	
TJC15014-6Y	1000	
TJC15014-5Y	1000	
TJC15014-4Y	1000	
TJC15014-3Y	1000	
TJC15014-2Y	1000	
Part No.	Pcs/ bag	Remarks

5	Packing box
4	Gummed tape
3	Packing bag
2	Certificate
1	TJC15014-nY
Number	Designation

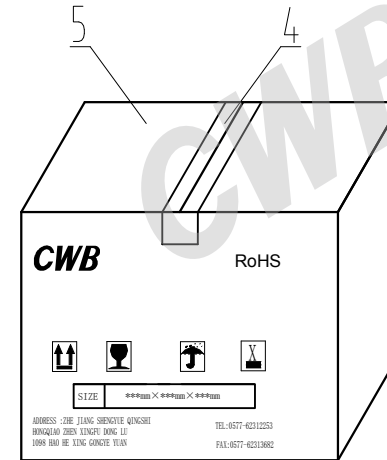
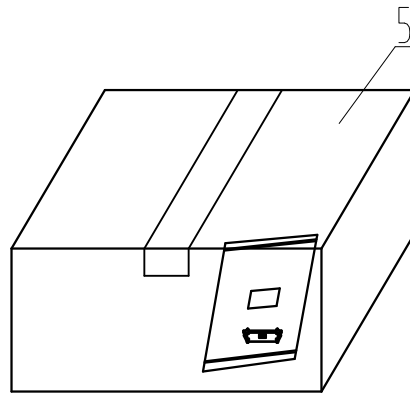
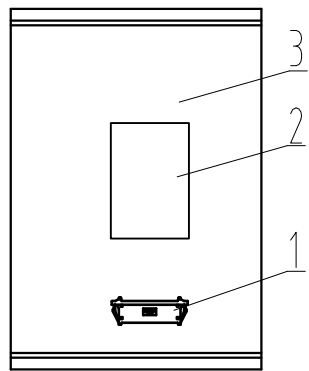
CUSTOMER DRAWING						Title: Packaging specification
Drawn	Heng.Yin 2022.04.25	Unit	Scale	Size	Edition	Part No.: TJC15014-nY(**-*)
		mm	/	A4	B0	Previous part No.: /
Checked	Guoying.Wang 2022.04.25	Sheet No.		1 Of 1		Document No.: BZ-DWG-00836
Approved	Dongxu.Liu 2022.04.25	CWB				Specification No.: PS4148

General tolerance	Dimension	Tolerance	Rev. No	Location	Description	Reviser	Date
	0~3	±0.13					
	3~18	±0.23					
	18~50	±0.35					
	50~120	±0.55					

Packing bag

Inner box

Packing box



TJC15014-20RP	500	
TJC15014-19PR	500	
TJC15014-18PR	500	
TJC15014-17PR	500	
TJC15014-16PR	500	
TJC15014-15PR	500	
TJC15014-14PR	1000	
TJC15014-13PR	1000	
TJC15014-12PR	1000	
TJC15014-11PR	1000	
TJC15014-10PR	1000	
TJC15014-9PR	1000	
TJC15014-8PR	1000	
TJC15014-7PR	1000	
TJC15014-6PR	1000	
TJC15014-5PR	1000	
TJC15014-4PR	1000	
TJC15014-3PR	1000	
TJC15014-2PR	1000	

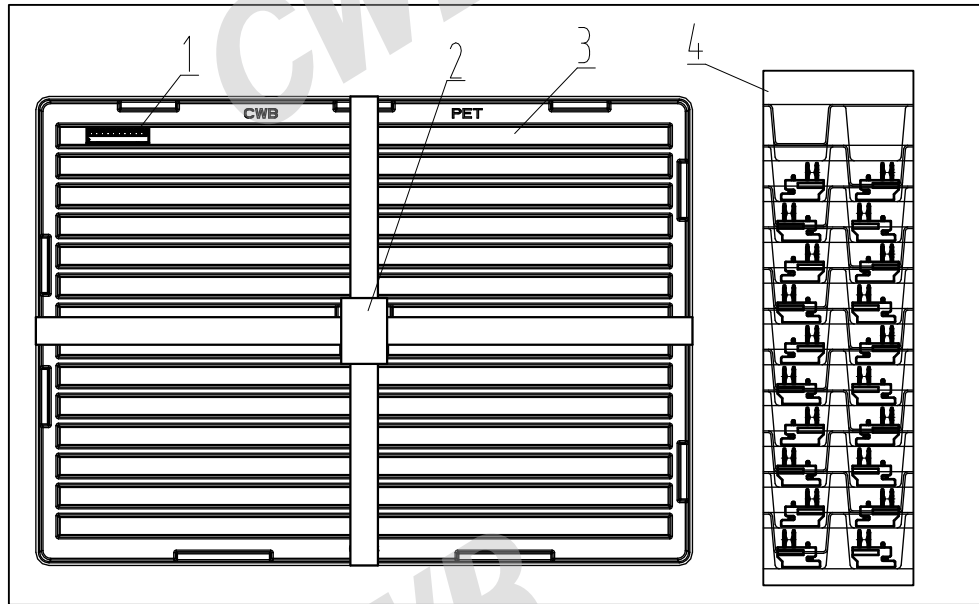
5	Packing box
4	Gummed tape
3	Packing bag
2	Certificate
1	TJC15014-nRP
Number	Designation

Part No.	Pcs/ bag	Remarks
TJC15014-nRP(**-*)		
Previous part No.:	/	
Document No.:	BZ-DWG-00895	
Specification No.:	PS4148	

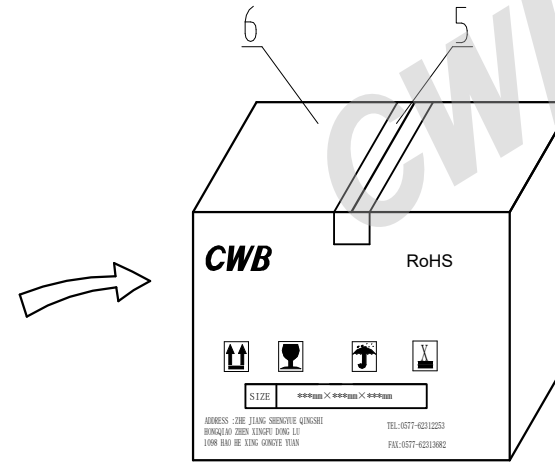
		Number	Designation		Part No.	
CUSTOMER DRAWING						
Drawn	Heng.Yin 2023.02.20	Unit	Scale	Size	Edition	
		mm	/	A4	B	
Checked	Guoying.Wang 2023.02.20	Sheet No.			1 Of 1	
Approved	Gongxu.Liu 2023.02.20	CWB				

	1	2	3	4	5	6	7	8	9	10				
A						General Tolerance	Dimension	Tolerance	Rev. No	Location	Description	Reviser	Date	A
							0~3	±0.13						
							3~18	±0.23						
							18~50	±0.35						
							50~120	±0.55						

blister box



Packing box



TJC15014-20WADK	2480	
TJC15014-19WADK	2720	
TJC15014-18WADK	2720	
TJC15014-17WADK	3040	
TJC15014-16WADK	3280	
TJC15014-15WADK	3280	
TJC15014-14WADK	3600	
TJC15014-13WADK	3840	
TJC15014-12WADK	4120	
TJC15014-11WADK	4400	
TJC15014-10WADK	4960	
TJC15014-9WADK	5240	
TJC15014-8WADK	5760	
TJC15014-7WADK	6600	
TJC15014-6WADK	7440	
TJC15014-5WADK	8280	
TJC15014-4WADK	9920	
TJC15014-3WADK	11840	
TJC15014-2WADK	14880	

6	Packing box
5	Gummed tape
4	Packing bag
3	Blister box
2	Certificate
1	TJC15014-nAWDK

Number	Designation	Part No.	Pcs/ box	Remarks
--------	-------------	----------	----------	---------

CUSTOMER DRAWING						Title: Packaging specification	
Drawn	YunlongLian 2024.03.22	Unit	Scale	Size	Edition	Part No.: TJC15014-nAWDK *(**~*)	
		mm	/	A4	B0	Previous part No.: /	
Checked	Qu.Wang 2024.03.22	Sheet No.		1 Of 1		Document No.: BZ-DWG-00836	
Approved	Dongxu.Liu 2024.03.22					Specification No.: PS4148	

TJC15014 系列命名规则

TJC15014 series naming conventions

1. Contact

CH-ZH -*-**

CH - ZH - * *

↓
Contact category: CH...Socket Contact

↓
Series name

↓
Plating type: none...Bright tin

↓
Manufacture sequence: none...standards, plating before stamping

C...stamping before plating

2. Housing

TJC15014-nY (**-*)

TJC15014 - n Y (WT * - *)

↓
Series name

↓
No. of circuits: 2~20

↓
Product category: Y...Housing or plug housing

↓
Color: WT...White, YW...Yellow, BL...Blue, BK...Black, DGN...Dark Green, DBL...Dark Blue, DRD...Dark Red, DYW...Dark Yellow, DOG...Dark Orange

↓
Material: 2...PBT

↓
Flammability: None...UL94 V-0

3. Receptacle

TJC15014-nYI(**-*)

TJC15014 - n Y * * (NL * - *)

↓
Series name

↓
No. of circuits: 2~20

↓
Product category: Y...Housing or plug housing

↓
Mounting type : I... IDC Conn

↓
Glow wire: GW...GWT 750°C

↓
Color: NL...Natural, BL...Blue, YW...Yellow, RD...Red

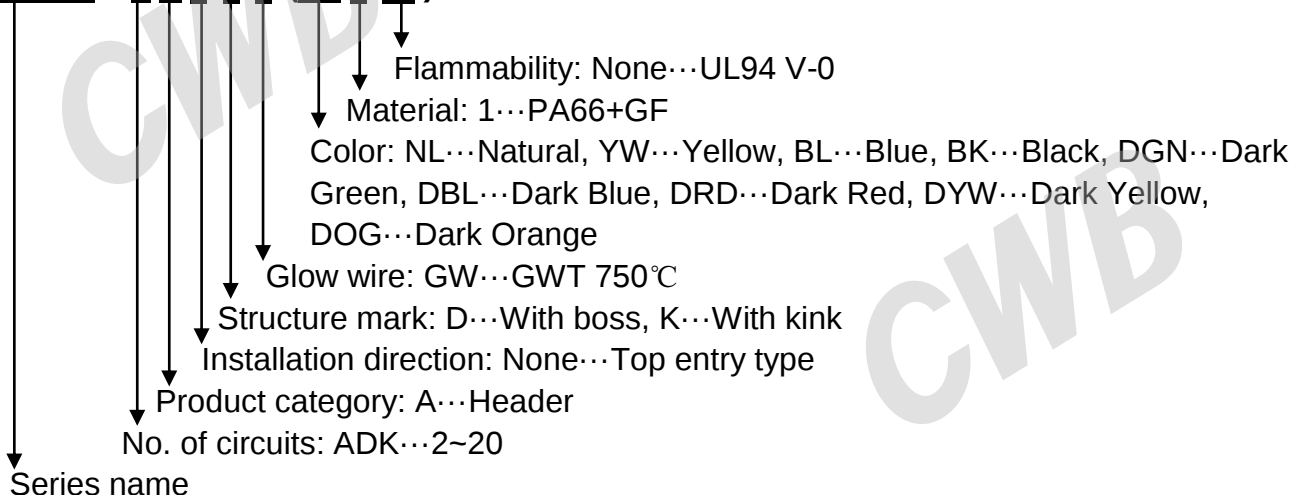
↓
Material: 1...PA66+GF

↓
Flammability: None...UL94 V-0,

4. Header

TJC15014-nADK(**-*)

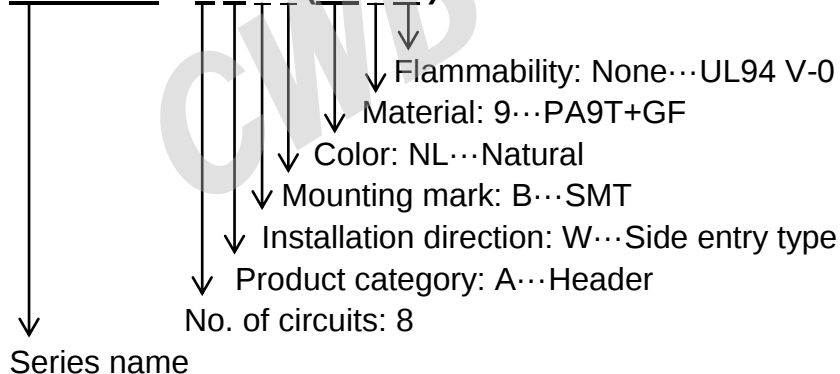
TJC15014 - n A * * * (NL * - *)



5. SMT Header

TJC15014-nAWB (**-*)

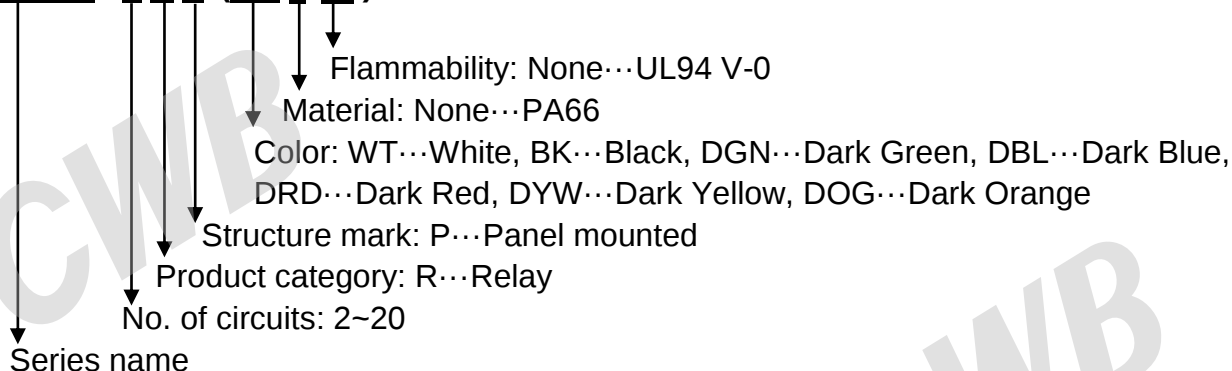
TJC15014 - n A * * (NL * - *)



6. Relay

TJC15014-nRP(**-*)

TJC15014 - n R P (WT * - *)



7. Header

TJC15014-nAWDK(**-*)

TJC15014 - n A * * * (NL * -*)

