



产品规格书

PRODUCT SPECIFICATION

产品描述: TJC4501 Connector

Product Description: TJC4501 Connector

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浙江合兴电子元件有限公司 CWB Electronics(Zhejiang)Co.,Ltd.	制定 Edit: 胡本家 2016.3.22	产品名称 Product Name: <u>TJC4501</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 Fax: 86-577-62313681	审核 Check: 王曲 2018.11.21	编号 Document No.: <u>PS3874</u>
	批准 Approval: 刘冬旭 2018.11.21	版本 REVISION: <u>6</u>

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1. 更改履历 Change History

序号 No.:	版本号 Version No.	更改前描述 Description Before Modification	更改后描述 Description After Modification	日期 Date
1	1	PS1590/PS0863	新版本发放	2015.11.14
2	2	/	版本升级	2016.3.22
3	3	/	更改 TJC4501-8Y 材料	2016.9.26
4	4	/	版本升级	2018.3.19
5	5	/	新增 TJC4501-3A/3Y	李白 2018.6.13
6	6	成品插拔力去锁扣测试	成品插拔力带锁扣测试	张玲玲 2018.11.21
7	7	/	更改图纸中公司 LOGO	李亚丹 2019.1.13

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2. 适用范围 Scope

本产品规格书适用于浙江合兴电子元件有限公司生产的 **WTW 4.5P 阴型 & 阳型电子连接器**，产品名称：**TJC4501**。

This product specification covers the requirement for **WTW 4.5mm pitch Receptacle & Plug connector**, which is designed and manufactured by CWB Electronics(ZheJiang) Co.,LTD. P/N: **TJC4501**.

3. 产品描述 Product Description

TJC4501 系列产品为家电连接器产品，产品部件组成如下：

The TJC4501 series connector designed for home appliances connection. Part checklist as following form:

Name	Part name	Notes
条形连接器针座 Plug Housing	TJC4501-nA	PA66 UL94V-0 PA66 UL94V-0 GWT750℃
条形连接器针座 Plug Housing	TJC4501-2A-1	PA66 UL94V-0
锁紧片 Lock plate	TJC4501-nAS	PA66 UL94V-0 PA66 UL94V-0 GWT750℃
插针/插针 A Pin Contact	TJC4501 插针/TJC4501 插针 A	QSn6.5-0.1Y, Tin plating
条形连接器孔座 Receptacle Housing	TJC4501-nY	PA66 UL94V-0
插簧/插簧 A Socket Contact	TJC4501 插簧/TJC4501 插簧 A	QSn6.5-0.1Y, Tin plating

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 Testing Method for Environmental of Electrical Connectors Class 1: General Principles
GB/T 2423	电工电子产品环境试验方法 Testing Method for Environmental of Electrical Connectors
GB/T 2424	电工电子产品环境试验导则 Testing Method for Environmental of Electrical Connectors
GB/T 5095	电子设备用机电元件基本试验规程及测量方法 Testing procedure/Method for components of electric equipment

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产品符合合兴企标 Q/HX J1150001 《产品及所用材料的环保要求》 I 类或顾客要求。

The connector should comply with CWB standard Q/HX J1150001 Class I or customer's requests

5.参数范围 Parameter Ratings:

额定电流 Rated Current	3A[AC(有效值 rms)/DC]
额定电压 Rated Voltage	250V [AC(有效值 rms)/DC]
使用温度范围 Operating temperature range	-25℃~+85℃
适用线型 Applicable wires	Wire Size: AWG26~AWG16 (0.1288mm ² -1.309 mm ²) Insulation Diameter: Φ 1.3mm-Φ 2.35mm

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 eye 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	端子的插入力 与固定力 Insertion force and Retention Force for Contact	固定连接器和/或测力计, 在连接器轴线方向插入和拔出; 速度不大于 25 mm/min. Axial Insert and withdraw force on the contact in the housing at a rate less than 25 mm/min. GB/T 5095.8 Method 15d / EIA-364-29B	插入力 (Insertion) Max.		固定力(Retention) Min.				
			9.8N		29.4N				
6.1.3	压着部位抗张 强度 Crimping Pull Out Force	在试验装置夹头中固定试验样品, 在连接的轴线方向施加 张力;速度不大于 25mm/min. Fix the crimped contact, Axial pull out force on the contact in the housing at a rate less than 25 mm/min. GB/T5095.8 Method 16d / EIA-364-08B	AWG 26: 20N Min. AWG 24: 30N Min. AWG 22: 40N Min. AWG 20: 50N Min. AWG 18: 80N Min. AWG 16: 100N Min.						
6.1.4	成品插入力与 拔出力 (带锁 扣) Insertion and Withdrawal Force for Connector	固定连接器和/或测力计, 在连接器轴线方向插入和拔出; 速度不大于25mm/min. Apply Axial Insert and withdraw force on the contact in the housing at a rate less than 25 mm/min. GB/T 5095.7 Method 13b / EIA-364-13B	PIN	首次插入力 (Insertion 1st) Max	首次拔出 力 Withdrawal (1st) Min	五十次后 插入力 (Insertion 50th) Max	五十次后 拔出力 Withdrawal (50th) Min		
			2P	25N	30N	20N	15N		
			3P	35N	40N	30N	15N		
			4P	45N	50N	40N	15N		
			6P	55N	70N	50N	15N		
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6.1.5	机械振动 Random Vibration	插合连接器，串联在一直流电源上,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 2h 。 Mated connectors subjected 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. 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： 0.02Ω Max. Contact resistance: 0.02Ω Max. 中断： 1μsec Max. <1μsec discontinuity
6.1.6	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 Mated connectors and subject 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: Half Sine Peak Value: 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) 中断： 1μsec Max. <1μsec discontinuity
6.1.7	机械寿命 Durability	以每分钟 10 次的速度插拔 50 次。 50 cycles mating and unmating test at the speed 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： 0.02Ω Max. Contact resistance: 0.02Ω 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 Mated connectors with dry circuit to test Contact Resistance GB/T 5095.2 Method 2a / EIA-364-23B	0.01 Ω Max. (Initial) 0.02 Ω Max. (Final)
6.2.2	绝缘电阻 Insulation Resistance	在相邻接触件之间或地线之间,用 500V DC 电压进行测试。 Apply a voltage of 500V DC between adjacent contacts and between contacts to ground. GB/T 5095.2 Method 3a / EIA-364-21C	1000 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 AC 1500V for 1 minute between adjacent contacts and between contacts to ground. 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 Mated 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	Δ30℃ 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 240hours. 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: 0.02Ω Max. Contact resistance: 0.02Ω Max. 绝缘电阻: 500 MΩ Min. Insulation Resistance : 500 MΩ Min. 耐电压: 800V Min. Withstand Voltage: 800V Min.
6.3.2	耐低温 Cold Resistance	连接器配合后, 于 -25±2℃ 的空气中放置 96 小时, 再回到室温中放置 1-2 小时测定 Mated connectors exposed to the condition of -25±2℃ for 96 hours. 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: 0.02Ω Max. Contact resistance: 0.02Ω Max. 绝缘电阻: 500 MΩ Min. Insulation Resistance : 500 MΩ Min. 耐电压: 800V Min. Withstand Voltage: 800V Min.
6.3.3	恒定湿热 Humidity	温度 40±2℃, 相对湿度(90~95)% 搁置时间 240h, 取出恢复 1~2h 后检查. Mated connectors exposed to the condition of 40±2℃ (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: 0.02Ω Max. Contact resistance: 0.02Ω Max. 绝缘电阻: 500 MΩ Min. Insulation Resistance : 500 MΩ Min. 耐电压: 800V Min. Withstand Voltage: 800V 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, 按下列步骤调试验温度: a) 在(-55±2)℃的恒温条件下放置 0.5h; b) 在(85±2)℃的恒温条件下放置 0.5h; 从 a)到 b)为一个循环周期, 共进行 25 个循环,恢复 1~2h 后检查。 Mated connectors shall be tested under the following conditions Temperature °C Duration (Minutes) 1 -55 30 2 +25 5Max. 3 +85 30 4 +25 5Max. 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	外观: 无损伤 (参照6.1.1) Appearance: No damage.(refer to 6.1.1) 接触电阻: 0.02Ω Max. Contact resistance: 0.02Ω Max. 绝缘电阻: 500 MΩ Min. Insulation Resistance : 500 MΩ Min. 耐电压: 800V Min. Withstand Voltage: 800V Min.
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 48h,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 1~2h 48 hours spray, at temp (35±2)℃, Salt NaCl mist (5±1)% After test wash parts and return to 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 with material exposed. And with plating material,slight erosion on the cutting surface is acceptable)

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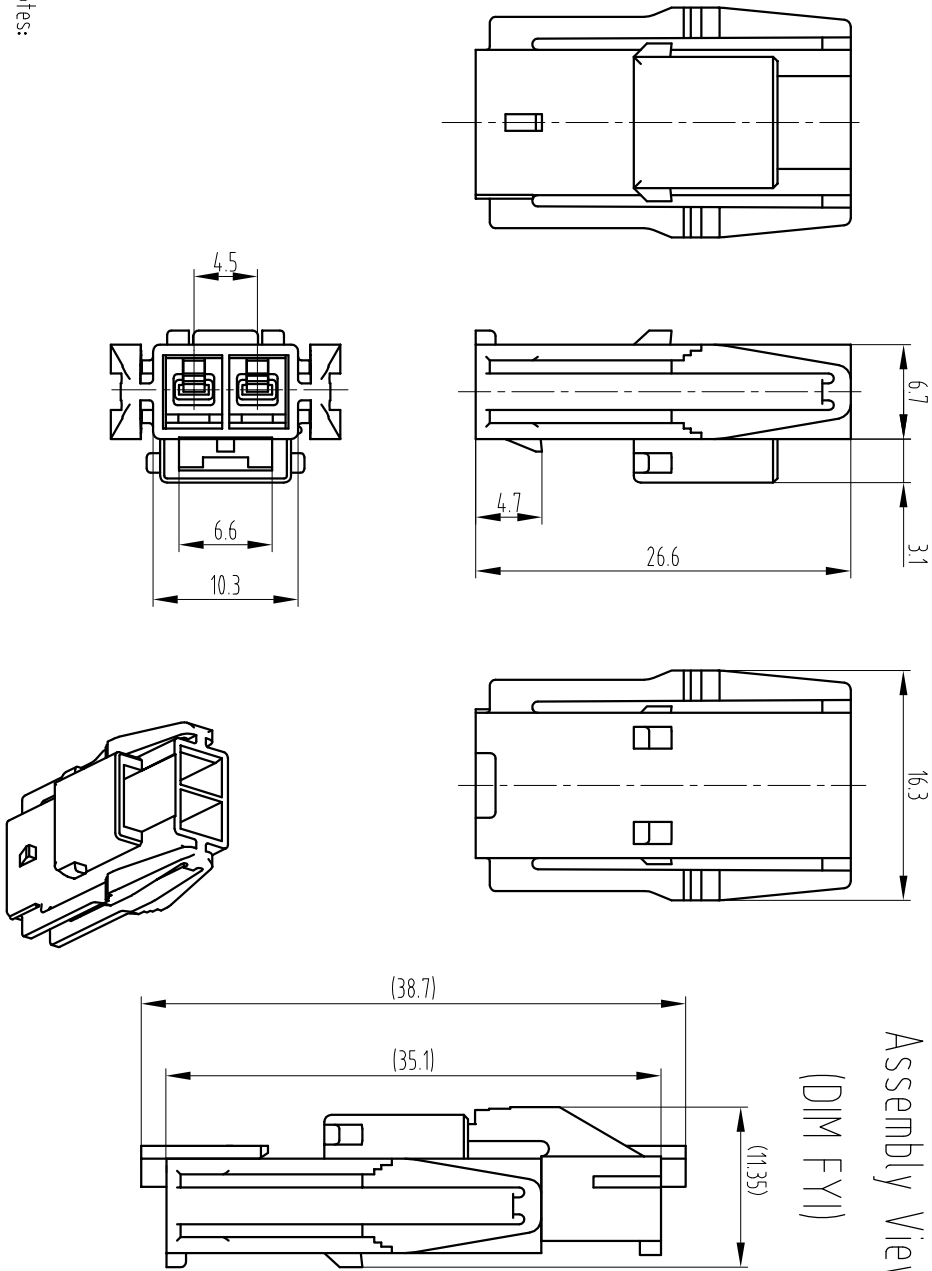
7. 测试分组 Test Sequences (Samples: 5PCS)

测试组 GROUP NUMBER	A	B	C	D	E	F	G	H	I	J	K	L
外观 Appearance	1	1	1	1,5	1,3	1,5	1	1,7	1,7	1,7	1,7	1,3
端子的插入力与固定力 Insertion force and Retention Force for contact	2											
压着部位抗张强度 Crimping Pull Out Force		2										
成品插入力与拔出力 Insertion and Withdrawal Force for Connector			2									
机械振动 Random Vibration				3								
机械冲击 Shock					2							
机械寿命 Durability						3						
接触电阻 Low Level Contact Resistance				2,4		2,4		2,4	2,4	2,4	2,4	
绝缘电阻 Insulation Resistance								5	5	5	5	
耐电压 Withstand Voltage								6	6	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												2

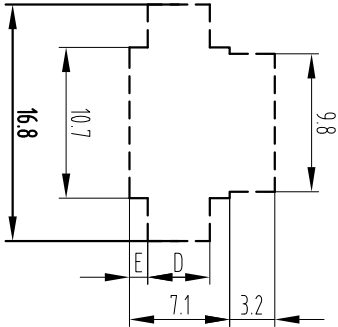
产品名称 Product Name:	TJC4501	编号 Document No.	PS3874	版本号 VersionNo.	6
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General Tolerance					
Dimension	Tolerance	Rev. No	Location	Description	Reviser
0~3	±0.13	△		Version upgrade	Benjie Hu
3~18	±0.16	△		Add assembly and PCB board diagrams	Lingling Zhong
18~50	±0.31	△	H8	Update the version.	YadanLi
≥50	±0.55				2019.1.15

Assembly View
(DIM FYI)



PCB LAYOUT



1.4 to 2.0	5.6	0.7
0.9 to 1.3	5.0	1.0
0.7 to 0.8	4.4	1.3
panel thickness(mm)	Dimensions(mm)	
	D±0.1	E±0.1

Notes:

- 1.Material: PA66 UL94 V-0/PA66 UL94 V-0 GW1750℃;
- 2.Matched Receptacle Housing: TJC4501-2Y;
- 3.Matched Pin Contact: TJC4501/TJC4501A;
- 4.Matched Lock Plate: TJC4501-2AS;
- 5.Packaging: Packing bag;
- 6.Compliant To The Current RoHS.

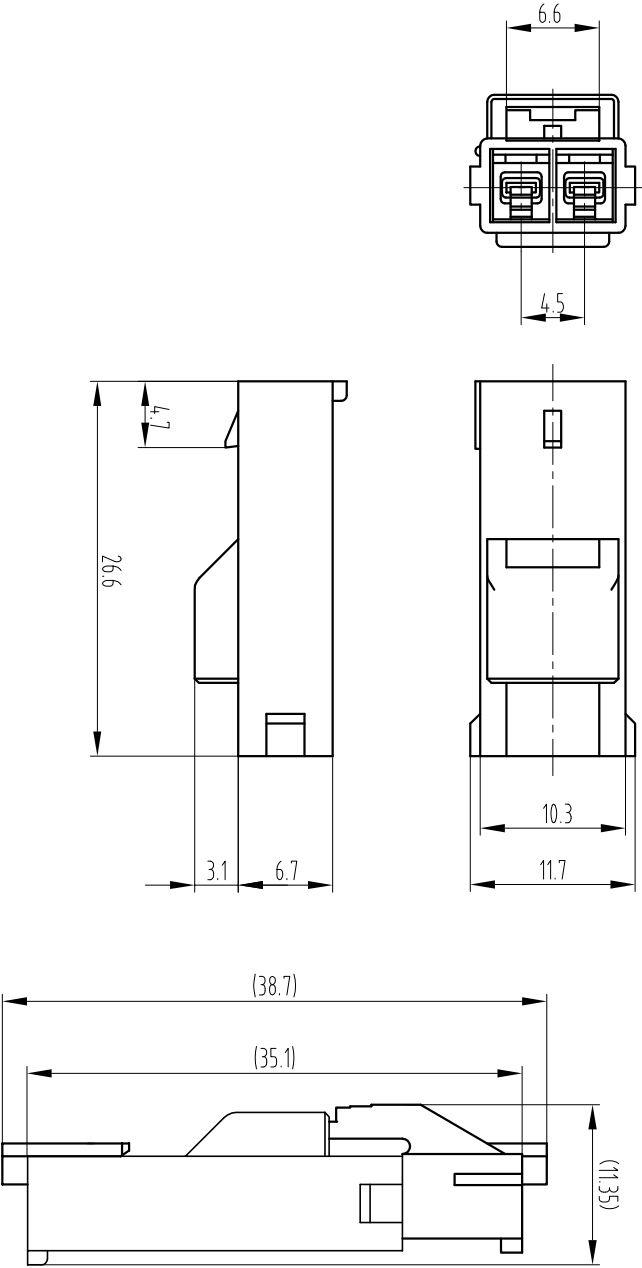
CUSTOMER DRAWING

CUSTOMER DRAWING				Title:	
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Checked	Qiu Wang	2019.1.15	mm	2:1	A4
Approved	Dongxu Liu	2019.1.15	Sheet No.	1 of 1	B3
CWB 浙江合兴电子元件有限公司				Part No.	TJC4501-2A
CWB Electronics (Zhejiang) Co., Ltd.				Document No.	CP-DWG-00122
				Specification No.	PS3874

General Tolerance					
Dimension	Tolerance	Rev. No	Location	Description	Reviser
0~3	±0.13	△		Version upgrade	Benjie Hu
3~18	±0.16	△		Add assembly and PCB board diagrams	Lingjing Zhong
18~50	±0.31		H8	Update the version.	YadanLi
≥50	±0.55				2019.1.15

Assembly View

(DIM FYI)

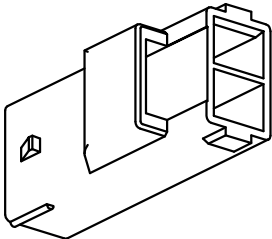


PCB LAYOUT

1.4 to 2.0	5.6	0.7
0.9 to 1.3	5.0	1.0
0.7 to 0.8	4.4	1.3
panel thickness(mm)	D±0.1	E±0.1
Dimensions(mm)		

Notes:

- 1.Material: PA66 UL94 V-0;
- 2.Matched Receptacle Housing: TJC4501-2Y;
- 3.Matched Pin Contact: TJC4501/TJC4501A;
- 4.Matched Lock Plate: TJC4501-2AS;
- 5.Packaging: Packing bag;
- 6.Compliant To The Current RoHS.



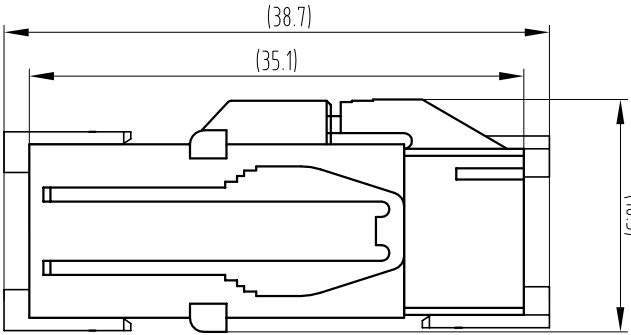
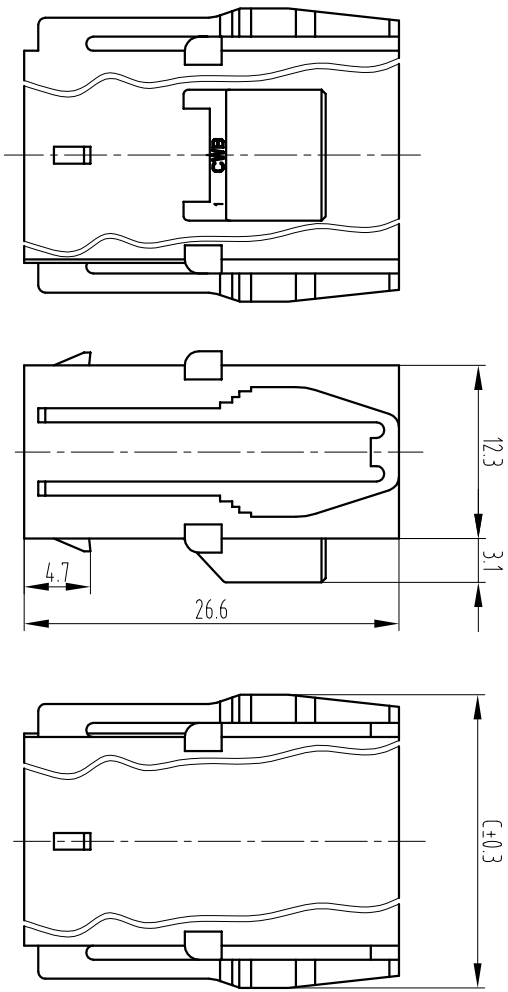
CUSTOMER DRAWING

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Approved	Dongxuliu	2019.1.15	Sheet No.	1 of 1	Edition
CWB 浙江合兴电子有限公司				Part No.	TJC4501-2A-1
CWB Electronics (Zhejiang) Co., Ltd.				Document No.	CP-DWG-00123
				Specification No.	PS3874

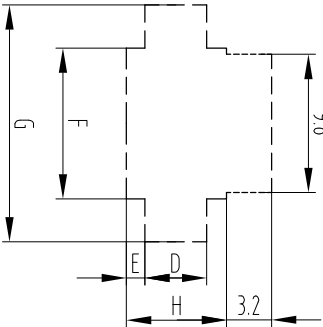
General Tolerance					
Dimension	Tolerance	Rev. No	Location	Description	Reviser
0~3	±0.13	△		Version upgrade	Benjie Hu
3~18	±0.16	△		Add assembly and PCB board diagrams	Lingling Zheng
18~50	±0.31		H8	Update the version.	YadanLi
≥50	±0.55				2019.1.15

Assembly View

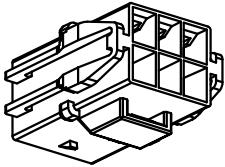
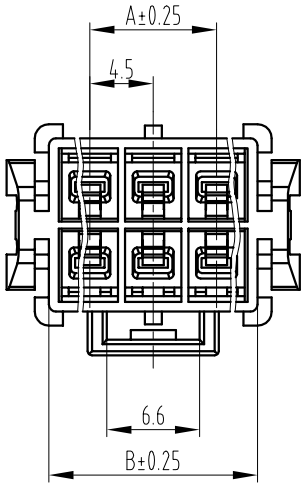
(DIM FYI)



PCB LAYOUT



1.4 to 2.0	8.3	2.25
0.9 to 1.3	7.7	2.55
0.7 to 0.8	7.1	2.85
panel thickness(mm)	D±0.1	E±0.1
Dimensions(mm)		



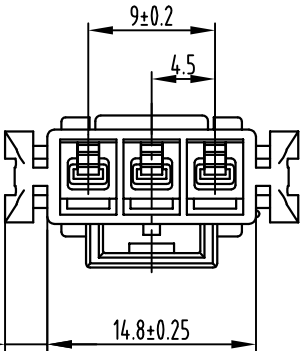
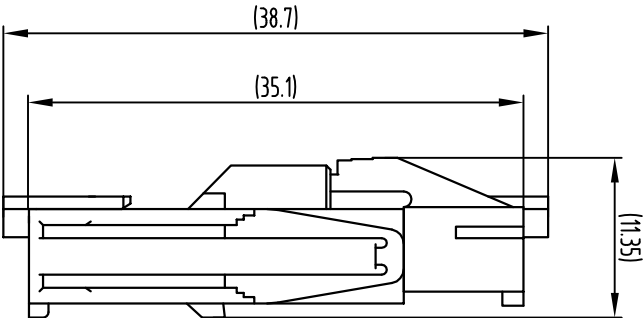
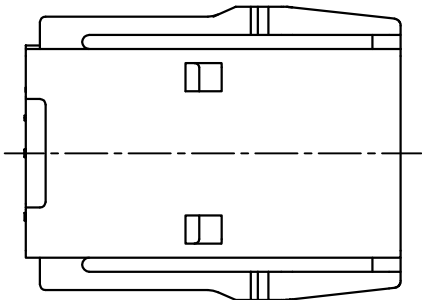
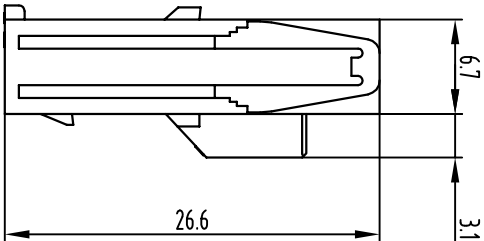
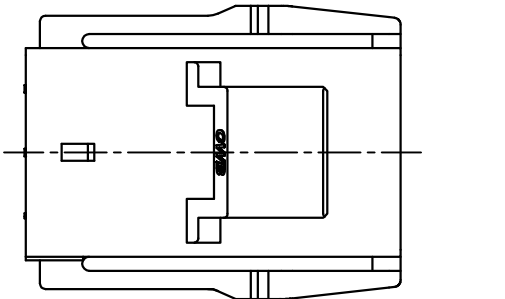
Notes:

- 1.Material: PA66 UL94 V-0/PA66 UL94 V-0 GWT750℃;
- 2.Matched Receptacle Housing: TJC4501-4Y/6Y;
- 3.Matched Pin Contact: TJC4501/TJC4501A;
- 4.TJC4501-4A Matched Lock Plate: TJC4501-2AS; TJC4501-6A Matched Lock Plate: TJC4501-3AS;
- 5.Packaging: Packing bag;
- 6.Compliant To The Current RoHS.

6	TJC4501-6A	9	14.8	20.8	15.3	21.3	12.9
4	TJC4501-4A	4.5	10.3	16.3	10.7	16.8	12.9
Kits		Part No.		Dimensions			
		A	B	C	F	G	H

CUSTOMER DRAWING				Title:			
Drawn	Qu Wang	2015.9.25	Unit	Scale	Size	Edition	4.5mm Pitch WTW Plug Housing
Checked	Qu Wang	2019.1.15	mm	2:1	A4	B3	
Approved	Dongxuliu	2019.1.15	Sheet No.	1 of 1			
CWB 浙江合兴电子元件有限公司				Document No.: CP-DWG-00124			
CWB Electronics (Zhejiang) Co., Ltd.				Specification No.: PS3674			

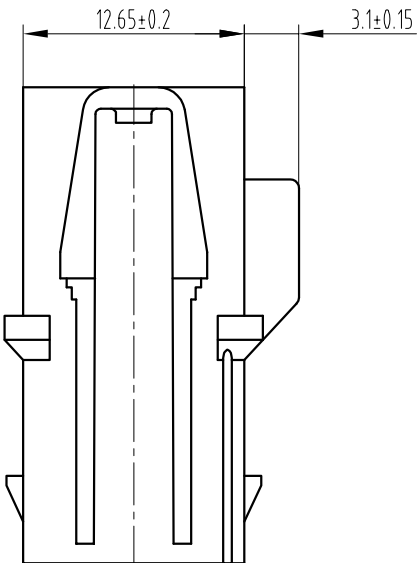
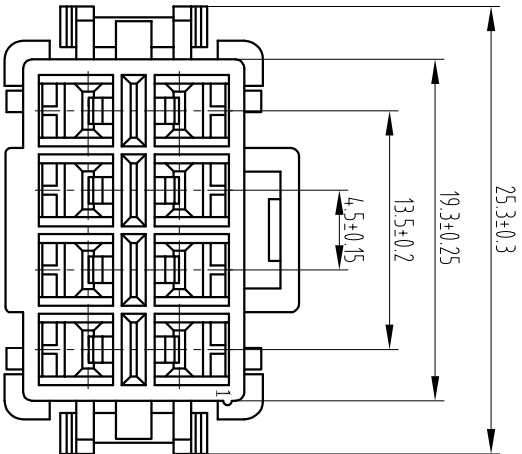
General Tolerance					
Dimension	Tolerance	Rev. No	Location	Description	Reviser
0~3	±0.13	H8		Update the version	YadanLi
3~18	±0.16				2019.1.15
18~50	±0.31				
≥50	±0.55				



- Notes:
- 1.Material: PA66 UL94 V-0;
 - 2.Matched Receptacle Housing: TJC4501-3Y;
 - 3.Matched Pin Contact: TJC4501/TJC4501A;
 - 4.Matched Lock Plate: TJC4501-3AS;
 - 5.Packaging: Packing bag;
 - 6.Compliant To The Current RoHS.

CUSTOMER DRAWING					Title:	
Drawn	Baili 2018.4.28	Unit	Scale	Size	Edition	4.5mm Pitch WTW Plug Housing
Checked	Qu Wang 2019.1.15	mm	2:1	A4		
Approved	Dong Liu 2019.1.15	Sheet No.	1 of 1			
CWB 浙江合共电子有限公司 CWB Electronics (Zhejiang) Co., Ltd.					Part No.:	TJC4501-3A
					Document No.:	CP-DWG-00664
					Specification No.:	PS3874

General Tolerance		Rev. No		Location		Description		Reviser		Date	
Dimension	Tolerance	Rev. No		Location		Description		Reviser		Date	
0~3	±0.13	△		H8		Version upgrade		Benjia Hu		2016.3.22	
3~18	±0.16					Update the version.		YadanLi		2019.1.15	
18~50	±0.31										
≥50	±0.55										

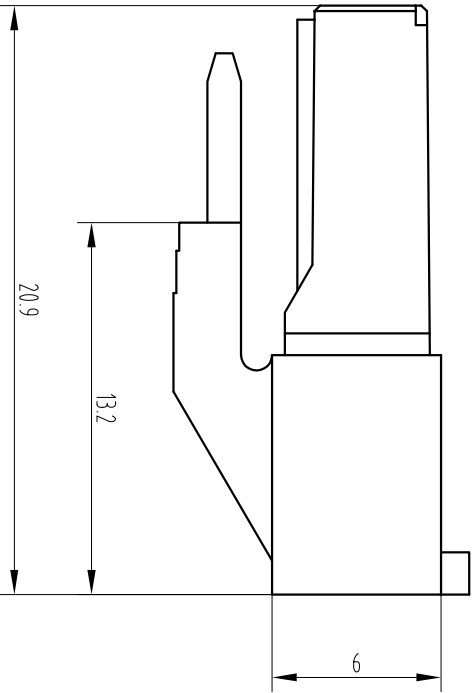
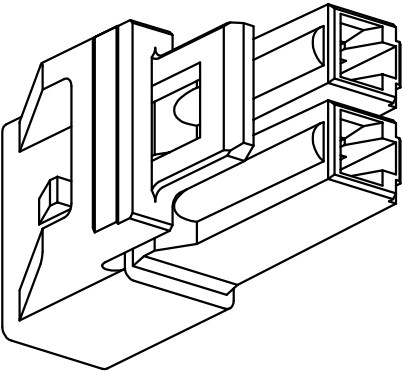
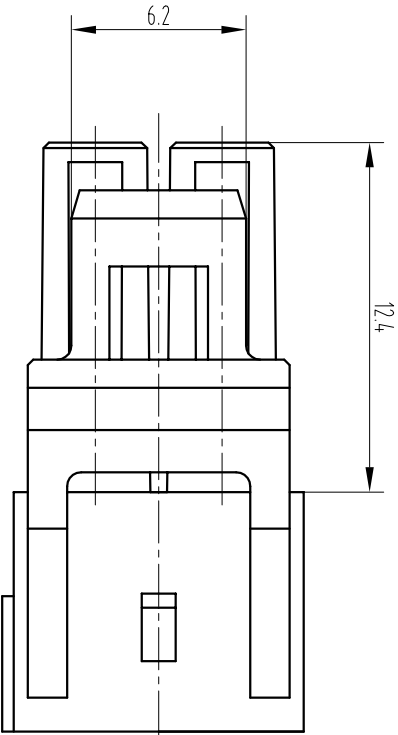
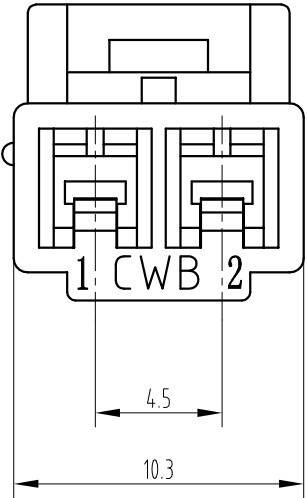


Notes:

- 1.Material: PA66 UL94 V-0;
- 2.Matched Receptacle Housing: TJC4501-8Y;
- 3.Matched Pin Contact: TJC4501/TJC4501A;
- 4.Matched Lock Plate: TJC4501-4AS;
- 5.Packaging: Packing bag;
- 6.Compliant To The Current RoHS.

CUSTOMER DRAWING						Title:	
Drawn	Yanfei Wang	2016.120	Unit	Scale	Size	Edition	4.5mm Pitch WTW Plug Housing
Checked	Qiu Wang	2019.1.15	mm	2.5:1	A4	B2	Part No.: TJC4501-8A
Approved	Dongxu Liu	2019.1.15	Sheet No.	1 of 1	Document No.: CP-DWG-00215		Specification No.: PS3074
CWB 浙江台兴电子元件有限公司						CWB Electronics (Zhejiang) Co., Ltd.	

General Tolerance		Rev. No		Location		Description		Reviser		Date	
Dimension	Tolerance	△		/		Version upgrade		Benjia Hu		2016.3.22	
0~3	±0.13	△		/		Add to high glow wire material		Lingling Zhang		2017.8.7	
3~18	±0.16	△		/		Update the version.		YadanLi		2019.1.15	
18~50	±0.31	/		H8							
≥50	±0.55										

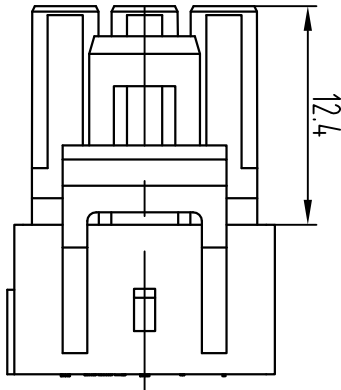
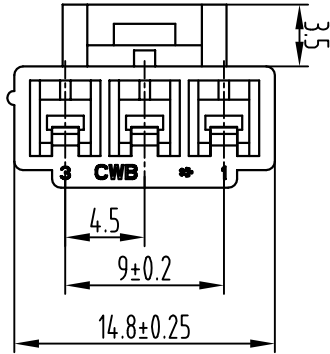
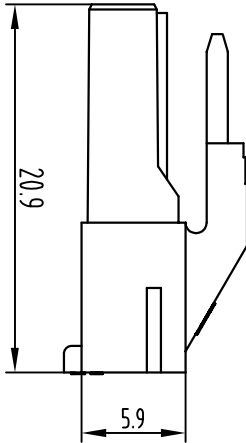


Notes:

- 1.Material: PA66 UL94 V-0/PA66 UL94 V-0 GWT750℃;
- 2.Matched plug Housing: TJC4501-2A/TJC4501-2A-1;
- 3.Matched socket Contact: TJC4501/TJC4501A;
- 4.Matched Lock Plate: TJC4501-2AS;
- 5.Packaging: Packing bag;
- 6.Compliant To The Current RoHS.

CUSTOMER DRAWING						Title:	
Drawn	Qiu Wang	2015.9.25	Unit	Scale	Size	Edition	4.5mm Pitch WTW Receptacle Housing
Checked	Qiu Wang	2019.1.15	mm	4:1	A4	B3	
Approved	Dongxuliu	2019.1.15	Sheet No.	1 of 1			
CWB 浙江合兴电子有限公司 CWB Electronics (Zhejiang) Co., Ltd.						Part No.:	TJC4501-2Y
						Document No.:	CP-DWG-00125
						Specification No.:	PS3874

General Tolerance		Dimension	Tolerance	Rev. No	Location	Description	Reviser	Date
		0~3	±0.13		H8	Update the version.	YadanLi	2019.1.15
		3~18	±0.16					
		18~50	±0.31					
		≥50	±0.55					

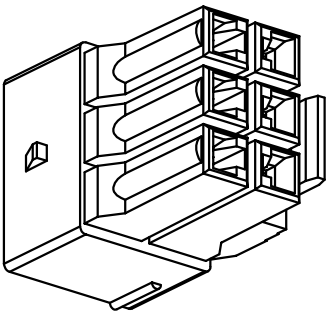
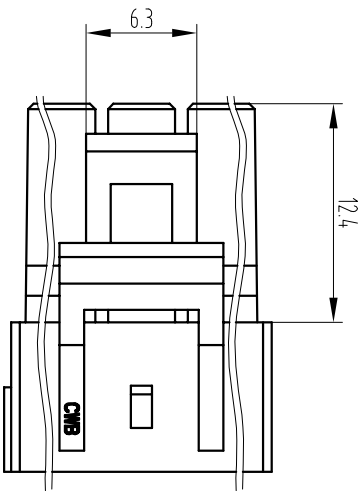
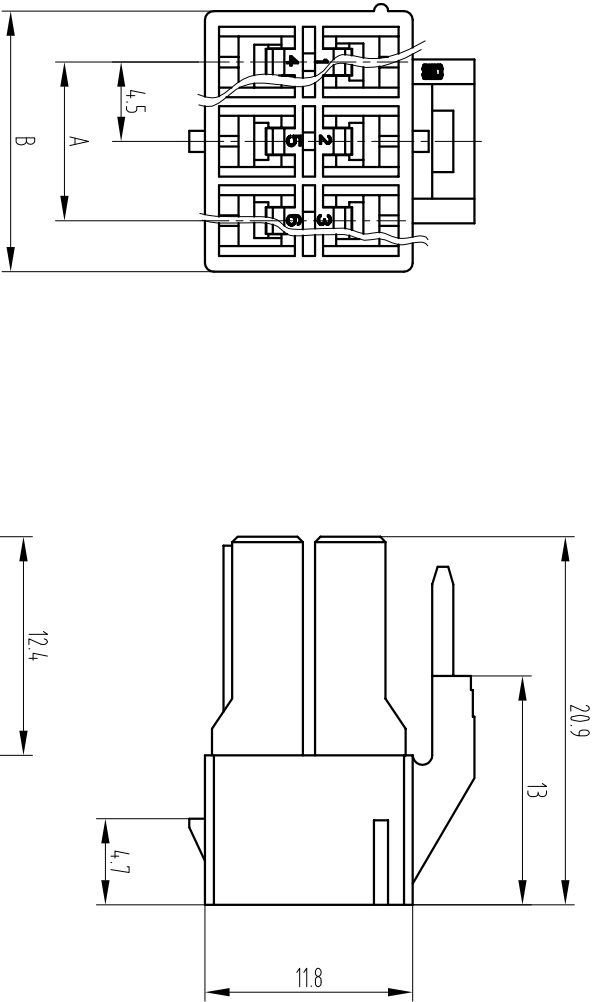


Notes:

- 1.Material: PA66 UL94 V-0;
- 2.Matched Plug Housing: TJC4501-3A;
- 3.Matched Socket Contact: TJC4501/TJC4501A;
- 4.Matched Lock Plate: TJC4501-3AS;
- 5.Packaging: Packing bag;
- 6.Compliant To The Current RoHS.

CUSTOMER DRAWING						Title:	
Drawn	Baoli 2018.4.28	Unit	Scale	Size	Edition	4.5mm Pitch WTW Receptacle Housing	
Checked	Qu Wang 2019.1.15	mm	2:1	A4	B2	Part No.:	TJC4501-3Y
Approved	Dongxuli 2019.1.19	Sheet No.	1 of 1			Document No.:	CP-DWG-00665
CWB 浙江合兴电子元件有限公司 CWB Electronics (Zhejiang) Co., Ltd.						Specification No.:	PS3874

General Tolerance						
Dimension	Tolerance	Rev. No	Location	Description	Reviser	Date
0~3	+0.13			Version upgrade	Benjin Hu	2016.3.22
3~18	±0.16			Add to high glow wire material	Uingling Zhang	2017.8.7
18~50	±0.31		H8	Update the version.	YadanLi	2019.1.15
≥50	±0.55					

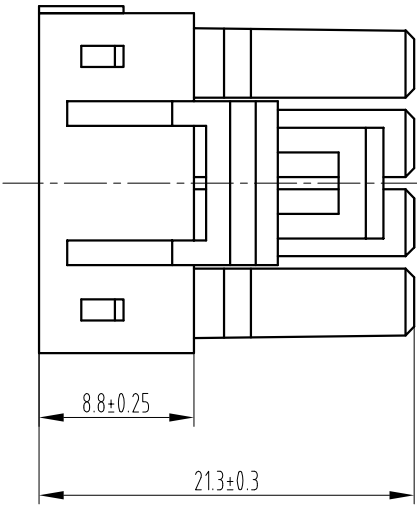
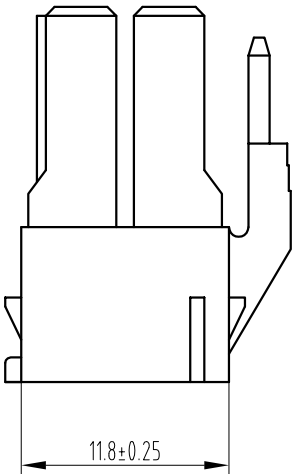
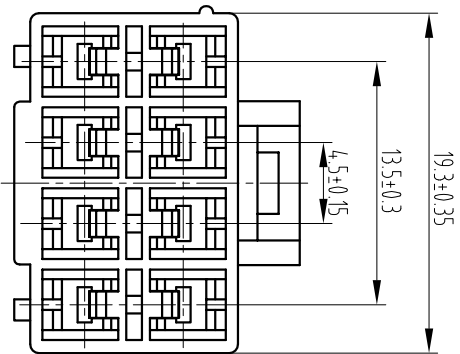


6	TJC4501-6Y	9	14.8
4	TJC4501-4Y	4.5	10.3
Ckts		Part No.	Dimensions
		A	B

- Notes:
- 1.Material: PA66 UL94 V-0/PA66 UL94 V-0 GW77503;
 - 2.Matched Plug Housing: TJC4501-4A/6A;
 - 3.Matched Socket Contact: TJC4501/TJC4501A;
 - 4.TJC4501-4Y Matched Lock Plate: TJC4501-2AS;
 - TJC4501-6Y Matched Lock Plate: TJC4501-3AS;
 - 5.Packaging: Packing bag;
 - 6.Compliant To The Current RoHS.

CUSTOMER DRAWING				Title:	
Drawn	QuWang 2015.9.25	Unit	Scale	Size	Edition
Checked	QuWang 2019.1.15	mm	2.5:1	A4	B3
Approved	Dongxu Liu 2019.1.15	Sheet No.	1 of 1		
CWB 浙江合兴电子有限公司				Part No.:	TJC4501-4Y/6Y
CWB Electronics (Zhejiang) Co., Ltd.				Document No.:	CP-DWG-00126
				Specification No.:	PS3874

General Tolerance						
Dimension	Tolerance	Rev. No	Location	Description	Reviser	Date
0~3	±0.13	△		Version upgrade	Benjia Hu	2016.3.22
3~18	±0.16	△		Alter TJC4501-8Y Material	Yanfei Wang	2016.9.26
18~50	±0.31		H8	Update the version.	YadanLi	2019.1.15
≥50	±0.55					

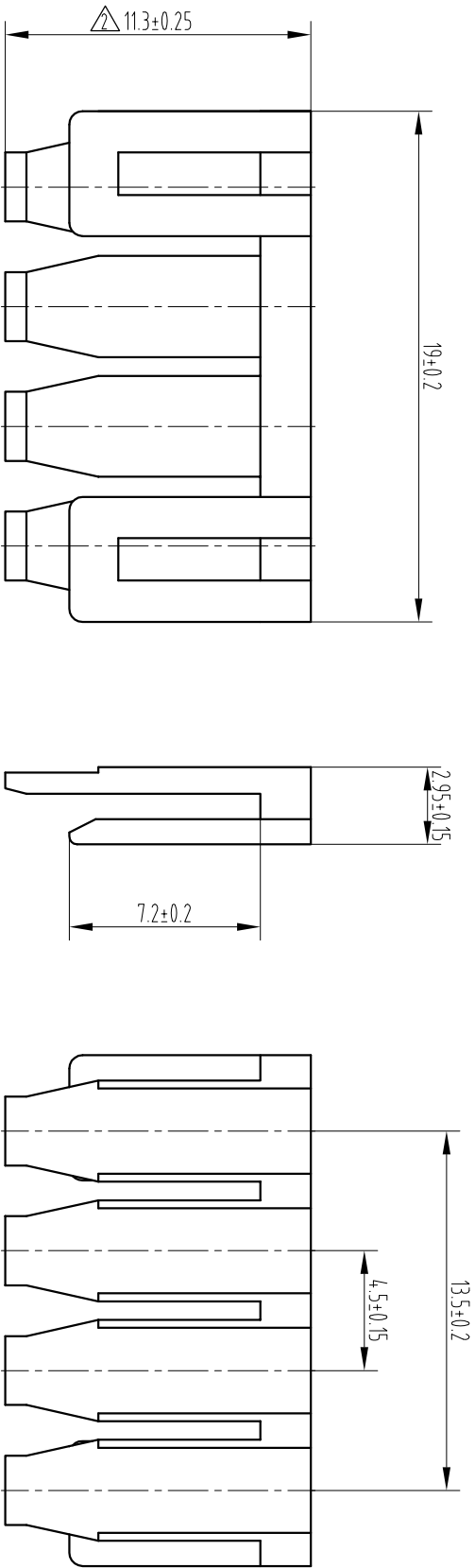


Notes:

- 1.Material: PA66 UL94 V-0;
- 2.Matched Plug Housing: TJC4501-8A;
- 3.Matched Socket Contact: TJC4501/TJC4501A;
- 4.Matched Lock Plate: TJC4501-4AS;
- 5.Packaging: Packing bag;
- 6.Compliant To The Current RoHS.

CUSTOMER DRAWING						Title:	
Drawn	Yanfei Wang	2016.120	Unit	Scale	Size	Edition	4.5mm Pitch WTW
Checked	Qiu Wang	2019.1.15	mm	2.5:1	A4	B3	Receptacle Housing
Approved	Dongxu Liu	2019.1.15	Sheet No.	1 of 1			Part No.: TJC4501-8Y
CWB 浙江合兴电子元件有限公司							Document No.: CP-DWG-00214
CWB Electronics (Zhejiang) Co., Ltd.							Specification No.: PS3674

General Tolerance					
Dimension	Tolerance	Rev. No	Location	Description	Reviser
0~3	±0.13	△		Version upgrade	Benjia Hu
3~18	±0.16	△		Version upgrade	Ji Wu
18~50	±0.31		H8	Update the version.	YadanLi
≥50	±0.55				2019.1.15

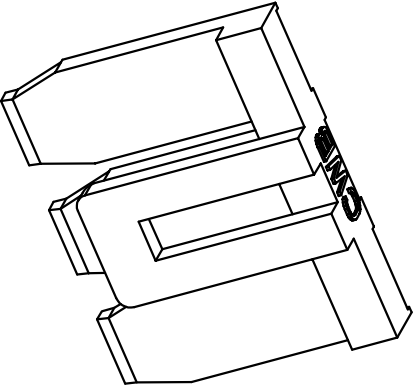
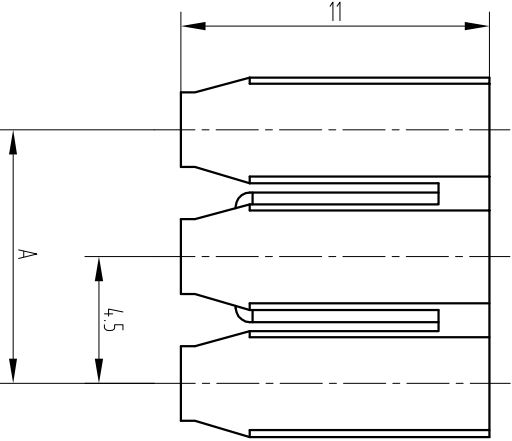
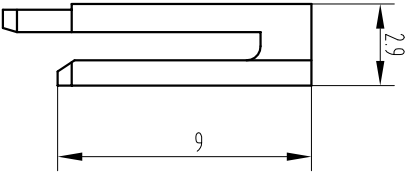
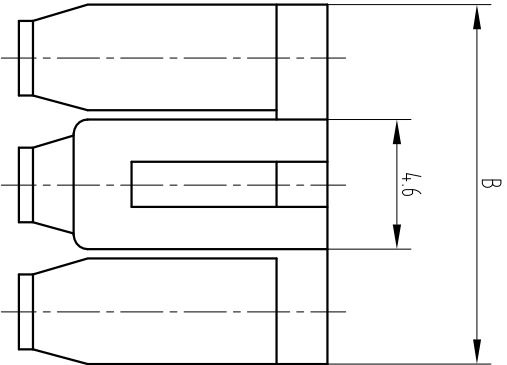


Notes:

- 1.Material: PA66 UL94 V-0;
- 2.Matched Housing: TJC4501-8A/TJC4501-8Y;
- 3.Packaging: Packing bag;
- 4.Compliant To The Current RoHS.

CUSTOMER DRAWING						Title:	
Drawn	Yanfei Wang	2016.12.1	Unit	Scale	Size	Edition	4.5mm Pitch WTW Lock Plate
Checked	Qiu Wang	2019.1.15	mm	4:1	A4	B3	Part No.: TJC4501-4AS
Approved	Dongxu Liu	2019.1.15	Sheet No.	1 of 1			Document No.: CP-DWG-00216
CWB 浙江合兴电子元件有限公司						Specification No.: PS3874	
CWB Electronics (Zhejiang) Co., Ltd.							

General Tolerance					
Dimension	Tolerance	Rev. No	Location	Description	Reviser
0~3	±0.13	△		Version upgrade	Benjie Hu
3~18	±0.16	△		Add to high glow wire material	Jingling Zhong
18~50	±0.31		H8	Update the version.	YadanLi
≥50	±0.55				2019.1.15



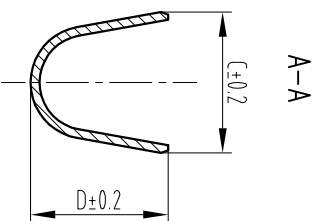
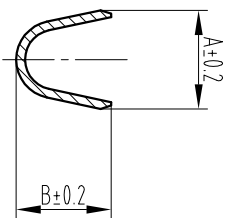
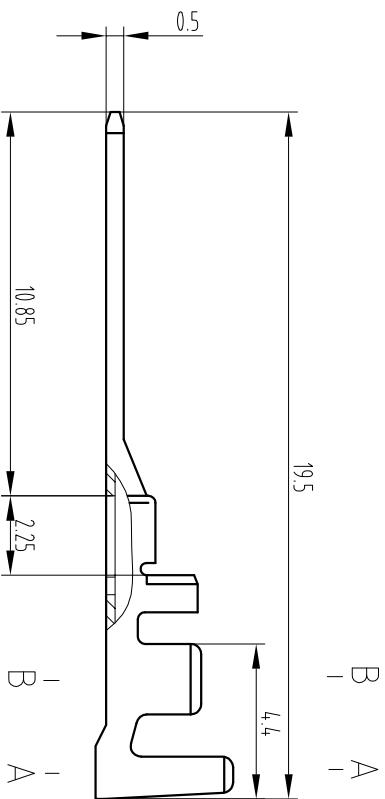
3	TJC4501-3AS	9	12.75
2	TJC4501-2AS	4.5	8.25
Ck'ts		Part No.	Dimensions
		A	B

- Notes:
- 1.Material: PA66 UL94 V-0/PA66 UL94 V-0 GWT750℃;
 - 2.Matched Housing: TJC4501-nA/TJC4501-2A-1/TJC4501-nY;
 - 3.Packaging: Packing bag;
 - 4.Compliant To The Current RoHS.

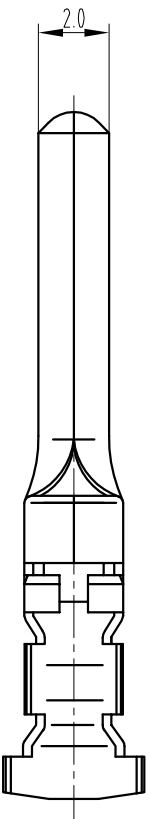
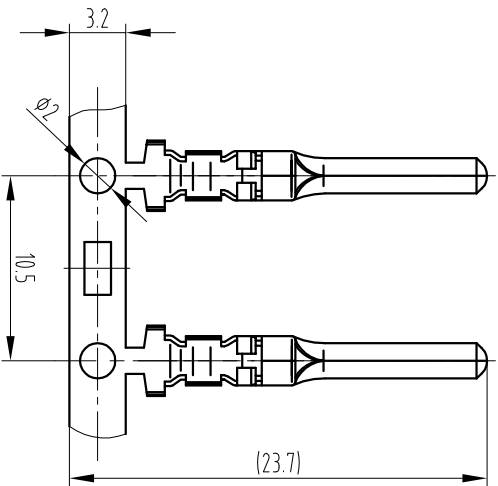
CUSTOMER DRAWING				Title: 4.5mm Pitch WTW Lock Plate	
Drawn	Ou Wang 2015.11.19	Unit	mm	Scale	4:1
Checked	Ou Wang 2019.11.15	Sheet No.	1 OF 1	Size	A4
Approved	Dongxulu 2019.11.15	Edition	B3	Part No.	TJC4501-nAS
				Document No.	CP-DWG-00129
				Specification No.	PS3874

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
0~3	±0.13	△		Version upgrade	Benjie Hu
3~18	±0.16	△		Add to overall dimension	Jingling Zhong
18~50	±0.31		H8	Update the version.	Yadanli
≥50	±0.55				2019.1.15



Contact View



Notes:

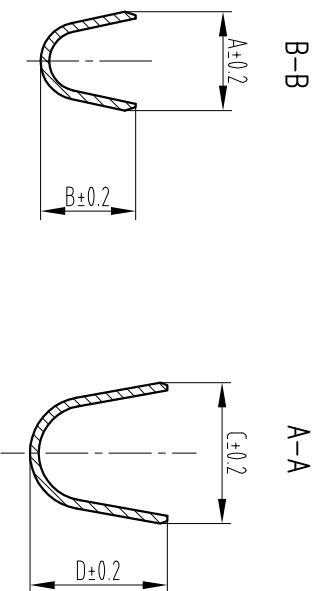
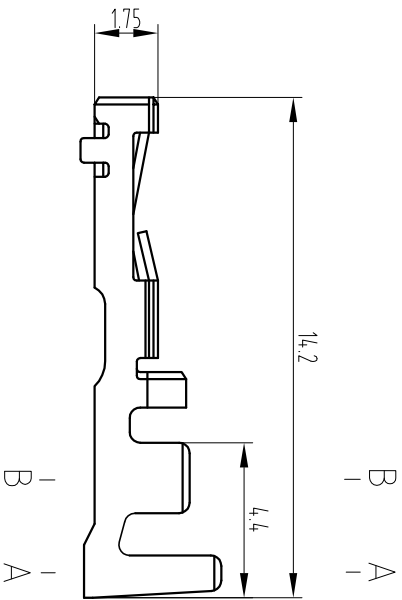
- 1.Material: Phosphor bronze, Thickness=0.25mm;
- 2.Surface Finish: Tin Plating;
- 3.Matched Plug Housing: TJC4501-nA, TJC4501-2A-1i;
- 4.Matched Socket Contact: TJC4501, TJC4501A;
- 5.Applicable Wires: TJC4501: AWG26~AWG22;
TJC4501A: AWG20~AWG16;
- 6.Packaging: Paper disc;
- 7.Compliant To The Current RoHS.

CUSTOMER DRAWING

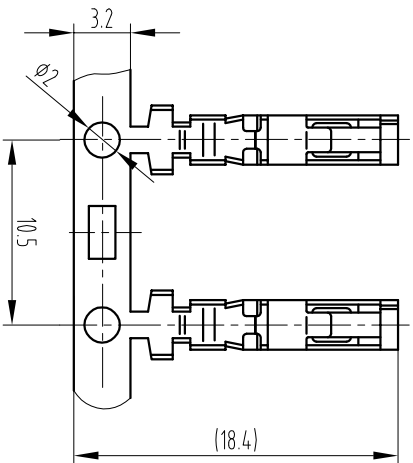
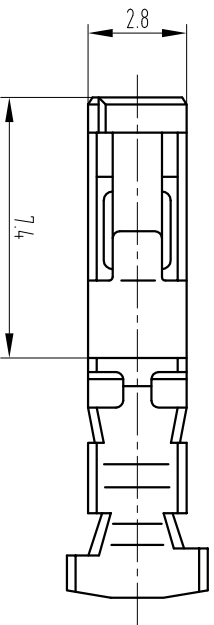
Drawn		Unit		Scale		Size		Edition		Title:	
Ou Wang		2015.11.18		mm		5:1		A4		4.5mm Pitch WTW	
Checked		Ou Wang		2019.1.15		Sheet No.		1 of 1		Pin Contact	
Approved		Dongxulu		2019.1.15		Part No.		TJC4501/TJC4501A		Document No.:	
										CP-DWG-00127	
										Specification No.:	
										PS3874	

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
0~3	±0.13	△		Version upgrade	Benjia Hu
3~18	±0.16	△		Add to overall dimension	Yingling Zhong
18~50	±0.31		H8	Update the version.	YadanLi
≥50	±0.55				2019.1.15



Contact View



Part No.		Dimensions			
TJC4501A	2.8	2.7	4.0	3.9	
TJC4501	2.0	1.6	2.6	2.7	
		A	B	C	D

Notes:

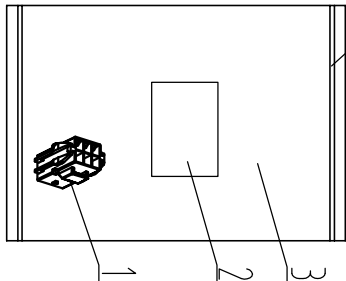
- 1.Material: Phosphor bronze, Thickness=0.25mm;
- 2.Surface Finish: Tin Plating;
- 3.Matched Receptacle Housing: TJC4501-nY;
- 4.Matched Pin Contact: TJC4501, TJC4501A;
- 5.Applicable Wires: TJC4501: AWG26~AWG22;
TJC4501A: AWG20~AWG16;
- 6.Packaging: Paper disc;
- 7.Compliant To The Current RoHS.

CUSTOMER DRAWING							Title:	
Drawn	Qu Wang	2015.11.18	Unit	Scale	Size	Edition	4.5mm Pitch WTW Socket Contact	
Checked	Qu Wang	2019.1.15	mm	5:1	A4	B3		
Approved	Dongxuliu	2019.1.15	Sheet No.		1 of 1			
CWB 浙江合兴电子元件有限公司 CWB Electronics (China) Co., Ltd.							Part No.: TJC4501/TJC4501A	
							Document No.: CP-DWG-00128	
							Specification No.: PS3874	

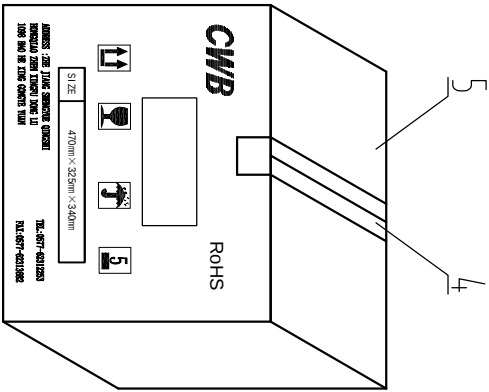
General Tolerance		Dimension	Tolerance	Rev. No	Location	Description	Reviser	Date
		0~3	±0.13			Version upgrade	Benjie Hu	2016.3.22
		3~18	±0.16			Change certificate	Lingjing Zhong	2017.8.7
		18~50	±0.31			Increase pin packing information	Bai Li	2018.6.22
		≥50	±0.55		H8	Update the version.	YadanLi	2019.1.15

Packing bag

Sealed



Packing box



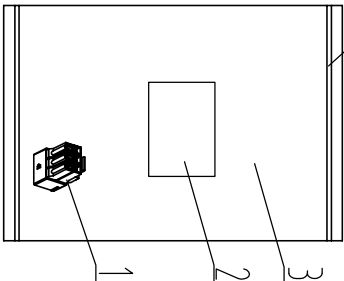
5	Packing box								
4	Guimed tape								
3	Packing bag	TJC4501-3A	500	/	TJ064501-40A	300	/		
2	Certificate	TJC4501-2A-1	500	/	TJC4501-6A	300	/		
1	TJC4501 Series Plug Housing	TJC4501-2A	500	/	TJC4501-4A	500	/		
Number	Designation	Part No.	Pcs/bag	Remarks	Part No.	Pcs/bag	Remarks		

CUSTOMER DRAWING				Title:			
Drawn	Qiu Wang	2015.11.18	Unit	Scale	Size	Edition	Packaging Specification of 4.5mm Pitch WTW Plug Housing
Checked	Qiu Wang	2019.1.15	mm	/	A4	B4	Part No.: TJC4501-nA
Approved	Dongxu Liu	2019.1.15	Sheet No.	1 of 1			Document No.: BZ-DWG-00073
				CWB 浙江合兴电子有限公司			
				CWB Electronics (Zhejiang) Co., Ltd.			
				Specification No.: PS3874			

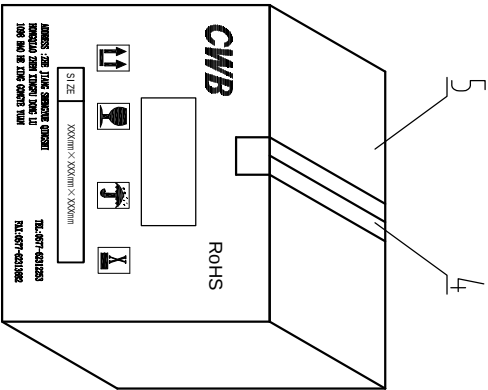
General Tolerance		Dimension	Tolerance	Rev. No	Location	Description	Reviser	Date
		0~3	±0.13			Version upgrade	Benjie Hu	2016.3.22
		3~18	±0.16			Change certificate	Lingjing Zhong	2017.8.7
		18~50	±0.31			Increase 3pin packing information	Bai Li	2018.6.22
		≥50	±0.55		H8	Update the version.	YadonLi	2019.1.15

Packing bag

Sealed



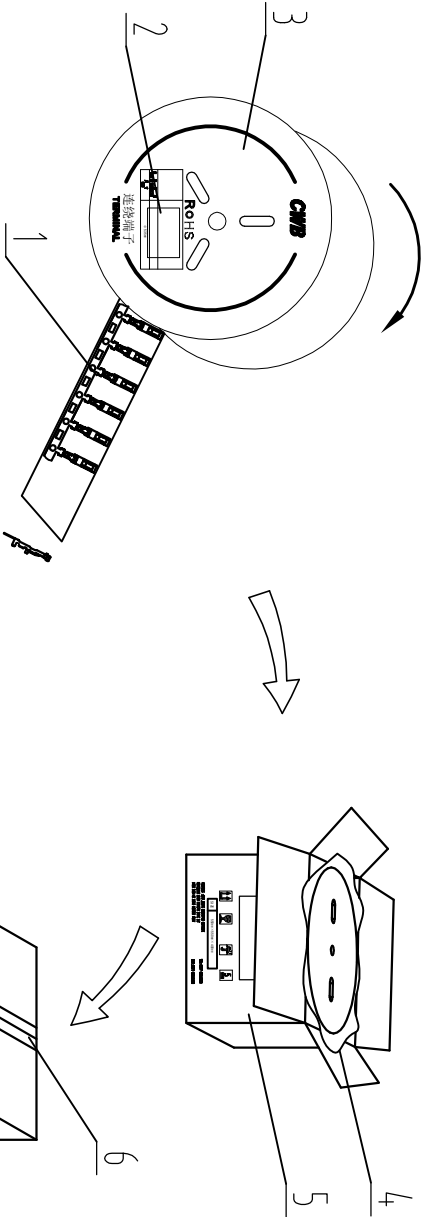
Packing box



5	Packing box								
4	Guimed tape								
3	Packing bag	TJC4501-4Y	500						
2	Certificate	TJC4501-3Y	500						
1	TJC4501 Series Socket Housing	TJC4501-2Y	1000						
Number	Designation	Part No.	Pcs/bag	Remarks	Part No.	Pcs/bag	Remarks		

CUSTOMER DRAWING						Title:			
Drawn	Qu Wang	2015.11.18	Unit	Scale	Size	Edition	Pitch Specification of 4.5mm		
Checked	Qu Wang	2019.1.15	mm	/	A4	B4	Pitch WTW Receptacle Housing		
Approved	Dongxu Liu	2019.1.15	Sheet No.	1 of 1			Part No.:	TJC4501-Y	
			CWB 浙江合兴电子有限公司			Document No.:		BZ-DWG-00074	
			CWB Electronics (Zhejiang) Co., Ltd.			Specification No.:		PS3874	

General Tolerance		Dimension	Tolerance	Rev. No	Location	Description	Reviser	Date
		0~3	±0.13	△		Version upgrade	Benjie Hu	2016.3.22
		3~18	±0.16	△		Modified quantity	Ji Wu	2017.4.17
		18~50	±0.31	△		Add to quantity/reel	Lingling Zheng	2017.8.7
		≥50	±0.55	△	H8	Update the version.	YadanLi	2019.1.15



6	Gummed tape	/	6	Gummed tape	
5	Packing box	/	5	Packing box	
4	Packing bag	/	4	Packing bag	
3	Reel	/	3	Reel	
2	Certificate	/	2	Certificate	
1	T1C4501 Contact	/	1	Socket Contact T1C4501A	4000 44000
				Socket Contact T1C4501	6000 66000
				Pin Contact T1C4501A	4000 40000
				Pin Contact T1C4501	6000 60000

CUSTOMER DRAWING							Title:	
Drawn	Qu Wang	2015.11.18	Unit	Scale	Size	Edition	Packaging Specification of 4.5mm Pitch WTW Contact	
Checked	Qu Wang	2019.1.15	mm	/	A4	B4	Part No.: TJC4501	
Approved	Dongxulu	2019.1.15	Sheet No.	1 of 1			Document No.: BZ-DWG-00075	
CWB 浙江合兴电子有限公司 CWB Electronics (Zhejiang) Co., Ltd.							Specification No.: PS3874	