


产品描述: TJC50801 系列连接器

Product Description: TJC50801 Connector

目录

Index

1. 更改履历 Change History
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

 浙江合兴电子元件有限公司 CWB Electronics (Zhejiang) Co., Ltd.	制定 Edit: <u>杨晓勇 2016.4.23</u>	产品名称 Product Name: <u>TJC50801 系列连接器</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: <u>王国英 2016.6.11</u>
	批准 Approval: <u>刘冬旭 2016.6.11</u>	版本 REVISION: <u>2</u>



产品规格书

PRODUCT SPECIFICATION

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	旧版规格书	整理为新版规格书, 版本升级	2016.4.23
2	2	/	公司重组, 更改 LOGO	2019.1.9
3				
4				
5				

产品名称 Product Name:	TJC50801	编号 Document No.	PS2708	版本号 VersionNo.	2
-----------------------	----------	--------------------	--------	-------------------	---

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 **CTB 5.08P 阳型电子连接器**，产品名称：**TJC50801**。

This product specification covers the requirement for **Cable to Board 5.08mm pitch Plug connector**, which is designed and manufactured by CWB Electronics(ZheJiang) Co.,LTD. P/N: **TJC50801**.

3. 产品描述 Product Description

TJC50801 系列产品为家电连接器产品，产品部件组成如下：

The TJC50801 series connector designed for home appliances connection. Part checklist as following form:

Name	Part name	Notes
阳连接器 Header	TJC50801-3A2Z	Wafer: PA66 UL94V-0 / PC UL94V-0 Post: Brass, tin over nickel plating
阳连接器 Header	TJC50801-3A	Wafer: PA66 UL94V-0 / PC UL94V-0 Post: Brass, tin over nickel 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

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

产品名称 Product Name:	TJC50801	编号 Document No.	PS2708	版本号 VersionNo.	2
-----------------------	----------	--------------------	--------	-------------------	---

5. 参数范围 Parameter Ratings:

额定电流 Rated Current	7A
适用 PCB 板 Applicable P.C.B	Board Thickness: 1.6mm Hole Diameter: 1.65mm-1.75mm
额定电压 Rated Voltage	250V [AC(有效值 rms)/DC]
使用温度范围 Operating temperature range	-40°C ~ +105°C

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	针的固定力 Retention Force for Pin	固定连接器/或测力计, 在连接器轴线方向施加规定的推力进行测试, 速度不大于 25mm/min。 Apply thrust force on the Pin in the wafer at a rate of 25 mm/min . GB/T 5095.8 Method 15a / EIA-364-29B	30N Min

6.2 环境性能 Environmental

序号 No.	项 目 Item	测试条件 Test Condition	规 格 Requirement
6.2.1	耐高温 Heat Resistance	把试验样品置于 105±2°C 的空气中放置 96 小时, 再回到室温中放置 1-2 小时测定 Make samples be exposed to the condition of 105±2°C for 96 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)
6.2.2	耐低温 Cold Resistance	连接器配合后, 于 -40±2°C 的空气中放置 96 小时, 再回到室温中放置 1-2 小时测定 Make samples be exposed to the condition of -40±2°C 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)

产品名称 Product Name:	TJC50801	编号 Document No.	PS2708	版本号 VersionNo.	2
-----------------------	----------	--------------------	--------	-------------------	---

6.2.3	恒定湿热 Humidity	<p>温度 $40\pm 2^{\circ}\text{C}$, 相对湿度(90~95)% 搁置时间 96h, 取出恢复 1~2h 后检查。 Make samples be exposed to the condition of $40\pm 2^{\circ}\text{C}$ (90~95) % Humidity for 96 hours. Recovery time 1~2 hours GB/T 5095.6 Method 11c /EIA-364-31B</p>	<p>外观: 无损伤 (参照6.1.1) Appearance: No damage.(refer to 6.1.1)</p>
6.2.4	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: a) 在(-55 ± 2)$^{\circ}\text{C}$的恒温条件下放置 0.5h; b) 在(85 ± 2)$^{\circ}\text{C}$的恒温条件下放置 0.5h; 从 a)到 b)为一个循环周期, 共进行 5 个循环,恢复 1~2h 后检查。 Make samples shall be tested under the following conditions Temperature $^{\circ}\text{C}$ Duration (Minutes) 1 -55 30 2 +25 5Max. 3 +85 30 4 +25 5Max. Step 1 to 4 is one cycle, 5 cycles shall be tested. Recovery time 1~2 hours. GB/T 5095.6 method 11d /EIA-364-32C</p>	<p>外观: 无损伤 (参照6.1.1) Appearance: No damage.(refer to 6.1.1)</p>
6.2.5	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)$^{\circ}\text{C}$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)$^{\circ}\text{C}$, 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</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 with material exposed. And with plating material, slight erosion on the cutting surface is acceptable)</p>
6.2.6	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 (240 ± 5)$^{\circ}\text{C}$, 时间(2 ± 0.5)s Dip solder tails into the molten solder(held at (240 ± 5) $^{\circ}\text{C}$ for (2 ± 0.5) sec. GB/T 5095.6 Method 12a /EIA-364-52</p>	<p>上锡率$\geq 90\%$: Solder coverage: $\geq 90\%$</p>
6.2.7	耐焊接热 Resistance to Soldering Heat	<p>把试验样品需要焊接的部位浸入焊锡炉中,锡炉温度 (260 ± 5)$^{\circ}\text{C}$; 时间 (5 ± 1) s 后, 在正常条件下恢复 1~2h。 Dip solder tails into the molten solder(held at (260 ± 5) $^{\circ}\text{C}$ for (5 ± 1) sec., Recovery time 1~2 hours GB/T 5095.6 Method 12d /EIA-364-56A</p>	<p>外观: 无损伤 (参照6.1.1) Appearance: No damage.(refer to 6.1.1)</p>
6.2.8	灼热丝 Glow wire (只针对 GWT750 $^{\circ}\text{C}$ 产 品 only for GWT750 $^{\circ}\text{C}$ products)	<p>750$^{\circ}\text{C}$的灼热丝顶部接触试验样品, 接触时间: (30 ± 1) s 接近和离开速率: 10mm/s~25mm/s 灼热丝进入或贯穿试验样品深度: (7 ± 0.5) mm 750$^{\circ}\text{C}$ glow wire contacts with mated connector, Time: (30 ± 1) s Speed of closing to and leaving: 10mm/s~25mm/s Depth that glow wire penetrates mated connector: (7 ± 0.5) mm GB/T 5169.10</p>	<p>1. 试验样品燃烧时间不超过2s。 The time that mated connector burns is not more than 2s. 2、灼热丝离开后的30s内样件无火焰或灼 热情况, 且无滴落物或滴落物不燃烧。 30s after glow wire leaves mated connector, it does not burn or is no incandescence and it does not fall something or falling something does not burn.</p>

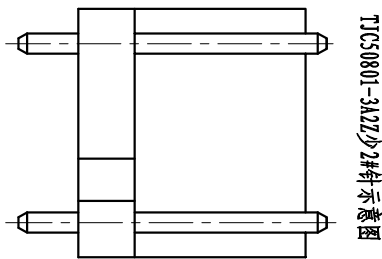
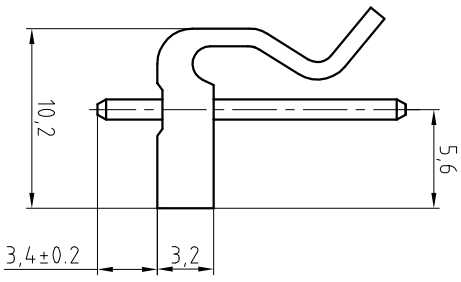
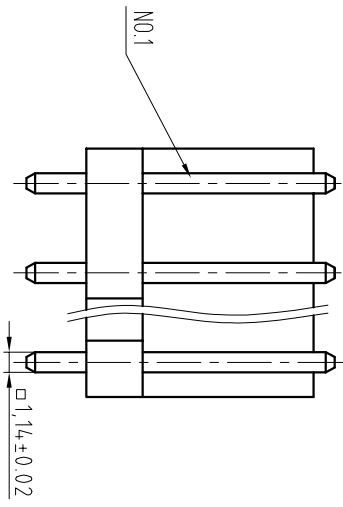
产品名称 Product Name:	TJC50801	编号 Document No.	PS2708	版本号 VersionNo.	2
-----------------------	----------	--------------------	--------	-------------------	---

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

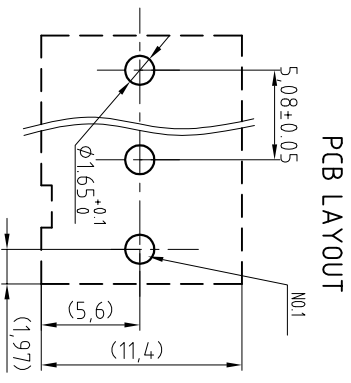
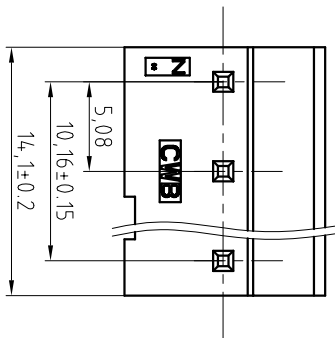
测试组 GROUP NUMBER	A	B	C	D	E	F	G	H	I
外观 Appearance	1	1,3	1,3	1,3	1,3	1,3	1,3	1,3	1
针的固定力 Retention Force for Pin	2								
耐高温 Heat Resistance		2							
耐低温 Cold Resistance			2						
恒定湿热 Humidity				2					
温度循环 Temperature Cycling					2				
盐雾 Salt Spray						2			
可焊性 Solderability							2		
耐焊接热 Resistance to Soldering Heat								2	
灼热丝 Glow wire									2

产品名称 Product Name:	TJC50801	编号 Document No.	PS2708	版本号 VersionNo.	2
-----------------------	----------	--------------------	--------	-------------------	---

General Tolerance		Dimension	Tolerance	Rev. No	Location	Description	Reviser	Date
		0~3	±0.13		H8	Version upgrade	YunfengHu	2019.01.09
		3~18	±0.23					
		18~50	±0.35					
		50~120	±0.55					



TC50801-3A2Z少2针示意图



PCB LAYOUT

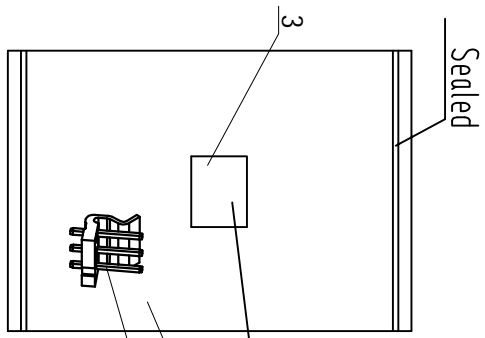
- Notes:
1. Material: PC UL94V-0/PA66 UL94V-0;
Brass, Tin over Nickel Plating;
 2. Packaging: Packing bag;
 3. Compliant To The Current RoHS.

CUSTOMER DRAWING				Title:	
Drawn	Xiaoyang Yang 2016.6.10	Unit	mm	Scale	2.5:1
Checked	Guoying Wang 2016.6.11	Size	A4	Edition	B2
Approved	Dongxulu 2016.6.11	Sheet No.	1 Of 1	Part No.	TC50801-A4
CWB 浙江合兴电子五金有限公司 CWB Electronics (Zhejiang) Co., Ltd.				Document No.:	CP-DWG-00312
				Specification No.:	PSZ708

5.08mm Pitch WTB Header

Dimension	Tolerance	Rev No	Location	Description	Reviser	Date
0~3	±0.13		H8	Version upgrade	Yunfenghu	2019.01.09
3~18	±0.23					
18~50	±0.35					
50~120	±0.55					

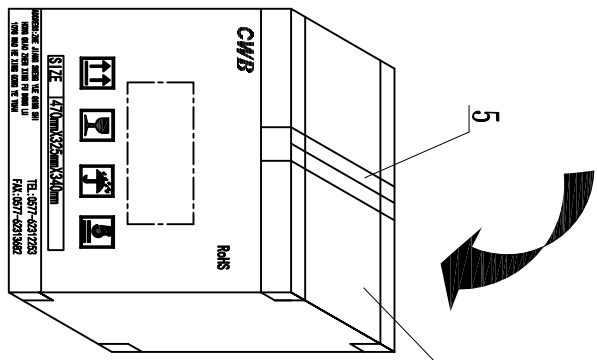
Packing bag



CWB 合格证
RoHS
物料号
客户名称
客户料号
数量
检验员

生产日期
浙江东兴电子有限公司
ZHEJIANG DONGXING ELECTRONICS CO., LTD.

Packing box



5	Guimed tape
4	Packing box
3	Certificate
2	Packing bag
1	TJCS0801-nA Series Header

Part No.	TJCS0801-3A2Z	1000
Part No.	TJCS0801-3A	1000
Part No.		

CUSTOMER DRAWING

Drawn	Xiaoyang Yang 2016.6.10	Unit	mm	Scale	/	Size	A4	Edition	B2	Part No.	TJCS0801-nA
Checked	Guoying Wang 2016.6.11	Sheet No.	1 OF 1							Document No.	BZ-DWG-00058
Approved	Dongxulu 2016.6.11									Specification No.	PSZ708

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

Title: Packaging Specification of 5.08mm Pitch WTB Header