标题：TJC20085 系列连接器

Title: TJC20085 Connector

目录

Index

1.更改履历 Change record

版本号 Version No.	更改前描述 Description before modification	更改后描述 Description after modification	更改人/日期 Reviser/Date
0	/	First release	章晨烨 2021/09/26
1	/	Update specifications and part no according to new naming specifications	汪乃浩 2022/03/12

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 2.0 阴型 & 阳型电子连接器，产品名称：TJC20085。

This product specification covers the requirement for wire to board 2.0mm pitch Receptacle & Plug connector,which are designed and manufactured by CWB Electronics(ZheJiang) Co.,LTD. P/N: TJC20085.

3.产品描述 Product description

TJC20085 系列产品为家电连接器产品，产品部件组成如下：

The TJC20085 series connector designed for home appliances connection. part checklist as following form:

Part name	Part No.	Previous part No.	Description
插簧 Contact	CH-TJC20085-**	PHD	AWG28~AWG24
插簧 Contact	CH- TJC20085-1-**	PHD-1	AWG22
条形连接器孔座（双排） Housing(Double row)	TJC20085-2×nY(**-*)	PHD-nY	PA66 UL94 V-0
阳连接器 (立式，直插，双排) Header (V, DIP, Double row)	TJC20085-2×nA*(**-*)	PHD-nA	Wafer: standards: PA66+GF V-2 Others: PA66 UL94 V-0 Post: Brass, tin plated
阳连接器 （卧式，直插，带挡板，双排） Header (H, DIP, W/PCB stabilizer, Double row)	TJC20085-2×nAWJ*(**-*)	PHD-nAWJ	Wafer: standards: PA66+GF V-2 Others: PA66 UL94 V-0 Post: Brass, tin plated
阳连接器 （卧式，直插，带挡板，双排） Header (H, DIP, W/PCB stabilizer, Double row)	TJC20085-2×nAWJ1.2*(**-*)	PHD-nAWJ-1.2	Wafer: standards: PA66+GF V-2 Others: PA66 UL94 V-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，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

EIA-364 EIA-364 系列标准
EIA-364 series standards

产品符合 RoHS 标准。
The product should comply with RoHS.

5.参数范围 Parameter ratings:

额定电流 [AC(有效值)/DC] Rated current [AC(rms)/DC]	AWG28# 1A Max.	AWG26# 1.5A Max.	AWG24# 2.5A Max.	AWG22# 3A Max.
适用 PCB 板 Applicable PCB	Board thickness:0.8mm~1.6mm Hole diameter: 0.7mm~0.8mm			
额定电压[AC(有效值)/DC] Rated voltage [AC(rms)/DC]	250V			
使用温度范围（包含温升） Operating temperature range (include temperature rise)	-40℃~+85℃			
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)	CH-TJC20085: Wire size: AWG28~AWG24(0.08mm²~0.20 mm²) Insulation diameter: 1.2mm~1.4mm CH-TJC20085-1: Wire size: AWG22 (0.32 mm²) Insulation diameter: 1.6mm			

6.产品性能 Performance

6.1 机械性能 Mechanical

序号 No.	项目 Item	测试条件 Test condition	规格 Requirement
6.1.1	外观 Appearance	目测 Checking by eyes 视力：1.0 以上 Eyesight: > 1.0 照明：（200~300）lx Lamp: (200~300) lx 目测距离：（0.3~0.5）m Space: (0.3~0.5) m **GB/T 5095.1 Method 1a**	1.塑料件表面应无明显疤痕、凹陷、开裂及影响使用的变形。 Plastic part: smooth and flat surface without discolor, broken, crack, and distortion, etc. 2 金属件表面无锈蚀、氧化 、无明显的机械损伤及电镀层脱落等缺陷。 Metal part: bright and even surface without rust, oxide, fog and obvious physical damage, etc.
6.1.2	端子插入力与固定力 Insertion force and retention force for contact	应测量将端子沿轴线方向插入和拔出孔座的力(测试速度:25mm /min) The force of inserting and pulling the contact into and out of the housing along the axis shall be measured (Testing speed: <25 mm/min.) **GB/T 5095.8 Method 15d / EIA-364-29B**	插入力: ≤10N 固定力: ≥15N Insertion force: ≤10N Retention force: ≥15N
6.1.3	端子的插拔力 Insertion and withdrawal 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 pin contact in the socket contact of 25mm/min. **GB/T 5095.7 Method 13b / EIA-364-13B**	插入力: ≤5N 拔出力: ≥1N Insertion force: ≤5N Withdrawal force: ≥1N
6.1.4	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:25mm /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**	10N Min.
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:25mm /min) Pulling load shall be applied to a correctly crimped contact and a wire. The load required to pull the wire out of the contact or break the wire shall be measured. (Testing speed: <25 mm/min.) **GB/T5095.8 Method 16d / EIA-364-08B**	AWG 28: 10N Min. AWG 26: 20N Min. AWG 24: 30N Min. AWG 22: 40N 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30次拔出力（速度不大于25mm/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 30th shall be measured. (Testing speed: <25 mm/min.) **GB/T 5095.7 Method 13b / EIA-364-13B**	No. of poles	插入力（最大值）Insertion (Max)	拔出力（最小值）Withdrawal (Min)	
				初次 1st	初次 1st	第五十次 30st
			10P	55N	15N	12N
			12P	60N	17N	14N
			14P	65N	19N	16N
			16P	70N	21N	18N
			18P	75N	23N	20N
			20P	80N	25N	22N
			22P	85N	27N	24N
			24P	90N	29N	26N
			26P	95N	31N	28N
			28P	100N	33N	30N
			30P	105N	35N	32N
			32P	110N	37N	34N
			34P	115N	39N	36N
6.1.7	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			
6.1.8	机械冲击 Shock	连接器相配，沿XYZ三轴正反方向各冲击3次（总共18次），在测试过程中通以100mA电流 冲击强度：490m/s^2 持续时间：11ms Mate connectors and subject them to the following shock conditions, 3 times of shock shall be applied for each 6 directions along 3 mutually perpendicular axes, passing DC 100mA current during the test.(total of 18 shocks) Test pulse: 490m/s^2 Duration: 11ms **GB/T 5095.4 Method 6c / EIA-364-27B**	外观：无损伤（参照6.1.1） Appearance: no damage.(refer to 6.1.1) 电流中断时间: 1μsec Max Current interruption: 1μsec Max			
6.1.9	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.			

6.2 电气性能 Electrical

序号 No.	项 目 Item	测试条件 Test condition	规格 Requirement
6.2.1	接触电阻 Contact resistance	插配阴阳连接器后,用小功率电路进行测试 Mate connectors with dry circuit to test contact resistance **GB/T 5095.2 Method 2a / EIA-364-23B**	10mΩ Max. (Initial) 10mΩ Max. (Final)
6.2.2	绝缘电阻 Insulation resistance	在相邻接触件之间或地线之间,用 500V DC 电压进行测试 Apply a voltage of 500V DC between adjacent contacts and between contacts to ground. **GB/T 5095.2 Method 3a / EIA-364-21C**	1000 MΩ Min. (Initial) 500 MΩ Min. (Final)

6.2.3	耐电压 Withstand voltage	相邻接触件之间或地线之间施加 800V AC (有效值),漏电流 1mA 的电压作用,时间 1min. Apply a voltage of 800V 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**	△60℃ Max.

6.3 环境性能 Environmental

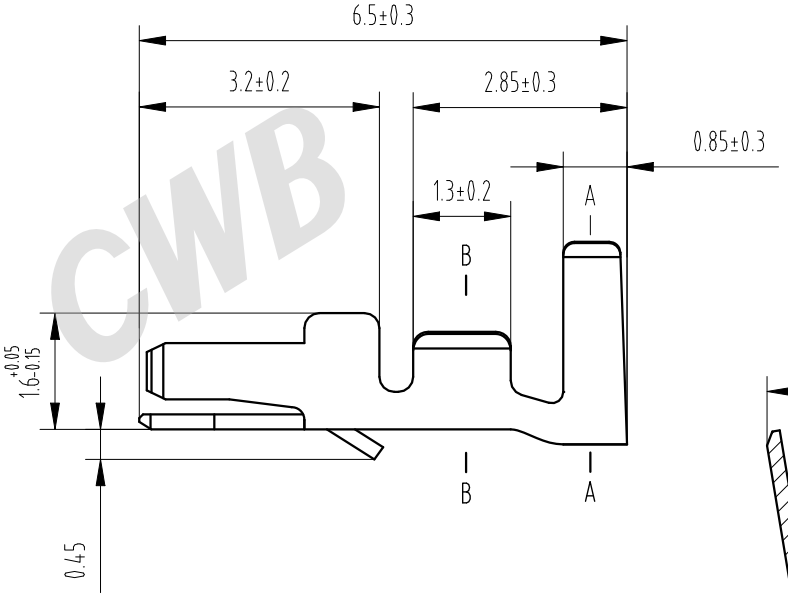
序号 No.	项目 Item	测试条件 Test condition	规格 Requirement
6.3.1	耐高温 Heat resistance	连接器配合后，于（85±2）℃的空气中放置 240 小时，再回到室温中放置（1~2）小时测定 Mated connectors exposed to the condition of (85±2)℃ for 240 hours, recovery time (1~2) hours **GB/T 5095.6 Method 11i / EIA-364-17B**	外观：无损伤（参照6.1.1） Appearance: no damage.(refer to 6.1.1) 接触电阻：20mΩ Max. Contact resistance: 20mΩ Max. 绝缘电阻：500 MΩ Min. Insulation resistance:500 MΩ Min. 耐电压：500V Min. Withstand voltage: 500V Min.
6.3.2	耐低温 Cold resistance	连接器配合后，于（-40±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 (-40±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：20mΩ Max. Contact resistance: 20mΩ Max. 绝缘电阻：500 MΩ Min. Insulation resistance:500 MΩ Min. 耐电压：500V Min. Withstand voltage: 500V Min.
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：500 MΩ Min. Insulation resistance: 500 MΩ Min. 耐电压：500V Min. Withstand voltage: 500V 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 Temperature °C Duration 1 -55±2 0.5h 2 Room Temp. 5 minutes Max. 3 +85±2 0.5h 4 Room Temp. 5 minutes Max. 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：20mΩ Max. Contact resistance: 20mΩ Max. 绝缘电阻：500 MΩ Min. Insulation resistance: 500 MΩ Min. 耐电压：500V Min. Withstand voltage: 500V Min.

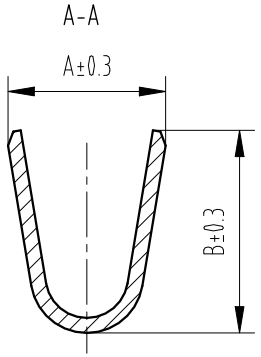
6.3.5	盐雾 Salt spray	把试验样品从试验箱顶悬挂下来，采用浓度为(5±1)%(质量百分比)的氯化钠溶液，在(35±2)℃温度下连续雾化 48 小时，试验后用流动的蒸馏水轻轻洗去表面沉积物。在常温常湿条件下恢复（1~2）小时 48 hours spray, at temp (35±2)℃, NaCl mist concentration (5±1)%. After test wash parts and put it into room ambient for (1~2) hours **GB/T 5095.6 Method 11f /EIA-364-26B**	外观：无损伤(五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	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（2±0.5）秒 Dip solder tails into the molten solder held at (245±5) ℃ for (2±0.5) seconds **EIA-364-52**	上锡率≥90%： Solder coverage: ≥90%
6.3.7	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（5±1）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) ℃ for (5 ±1) seconds, recovery time (1~2) hours Manual soldering: (350±10) ℃ for (1~2) seconds	外观：无损伤（参照6.1.1） Appearance: no damage.(refer to 6.1.1)

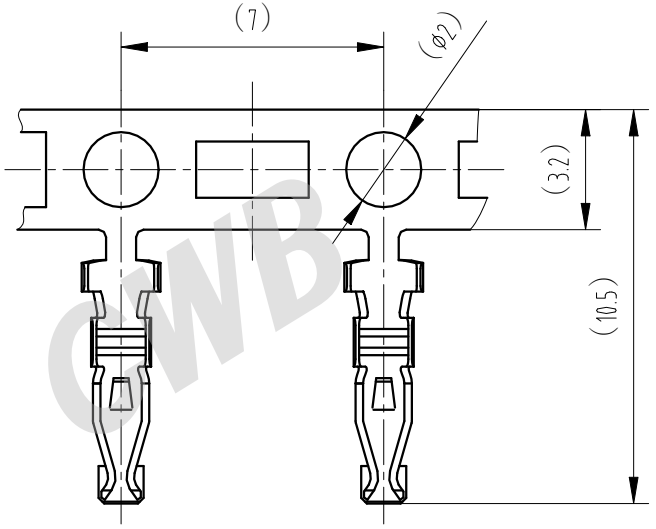
7.测试分组 Test sequences (Samples:5PCS)

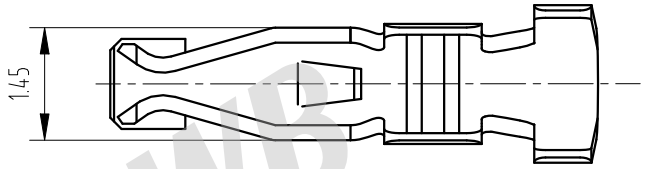
测试组 Group number	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P
外观 Appearance	1	1	1	1	1	1,5	1,3	1,7	1	1,7	1,5	1,7	1,7	1,5	1,3	1,3
端子的插入力与固定力 Insertion force and retention force for contact	2															
端子的插拔力 Insertion and withdrawal force for contact		2														
针的固定力 Post retention force			2													
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								5								
接触电阻 Contact resistance						2,4		2,6		2,4	2,4	2,4	2,4	2,4		
绝缘电阻 Insulation resistance								3		6		5	5			
耐电压 Withstand voltage								4		5		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		
可焊性 Solderability															2	
耐焊接热 Resistance to soldering heat																2

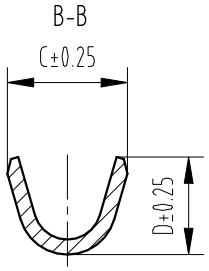
General tolerance	Dimension	Tolerance	Rev. No	Location	Description	Reviser	Date
	0~3	±0.13					
	3~18	±0.23					
	18~50	±0.35					
	≥50	±0.55					











Notes:

1.Material: Phosphor bronze,thickness=0.2mm

2.Surface finish: tin plated

3.Matched housing: TJC20085-2XnY

4.Applicable wires:

CH-TJC20085:AWG28#~ AWG24#

CH-TJC20085-1:AWG22#

5.Compliant to the current RoHS

Part No.	Previous part No.	A	B	C	D
		Dimension			
CH-TJC20085-1	PHD-1	2.1	2.6	2.1	1.7
CH-TJC20085	PHD	2.1	2.7	1.6	1.3

CUSTOMER DRAWING

			Unit	Scale	Size	Edition
Drawn	Naihao.Wang	2022.3.12	mm	10:1	A4	B2
Checked	Qu.Wang	2022.3.12	Sheet No.		1 Of 1	
Approved	Dongxu.Liu	2022.3.12				

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

Title: 2.0mm pitch WTB contact

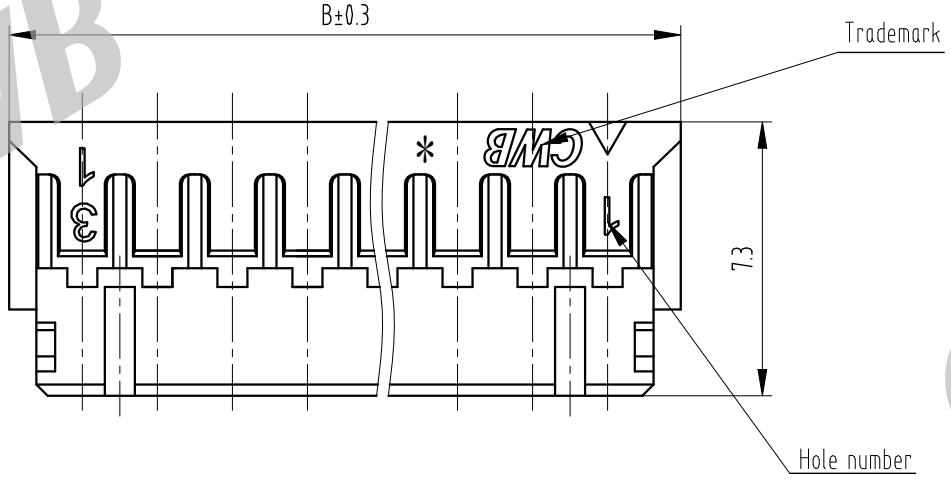
Part No.: CH-TJC20085-*/CH-TJC20085-1-*

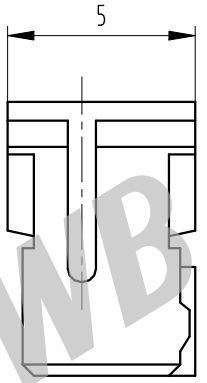
Previous part No.: PHD / PHD-1

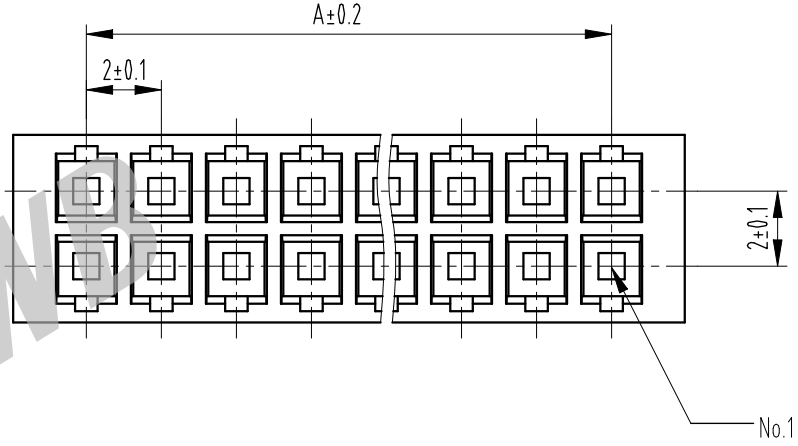
Document No.: CP-DWG-01243

Specification No.: PS4118

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: TJC20085-2XnA、TJC20085-2XnAWJ、TJC20085-2XnAWJ1.2

3.Matched contact: CH-TJC20085、CH-TJC20085-1

4.Packaging: packing bag

5.Compliant to the current RoHS

Ckts	Part No.	Previous part No.	A	B
			Dimensions	
32	TJC20085-2X16Y	PHD-32Y	30	33.9
30	TJC20085-2X15Y	PHD-30Y	28	31.9
28	TJC20085-2X14Y	PHD-28Y	26	29.9
26	TJC20085-2X13Y	PHD-26Y	24	27.9
24	TJC20085-2X12Y	PHD-24Y	22	25.9
22	TJC20085-2X11Y	PHD-22Y	20	23.9
20	TJC20085-2X10Y	PHD-20Y	18	21.9
18	TJC20085-2X9Y	PHD-18Y	16	19.9
16	TJC20085-2X8Y	PHD-16Y	14	17.9
14	TJC20085-2X7Y	PHD-14Y	12	15.9
12	TJC20085-2X6Y	PHD-12Y	10	13.9
10	TJC20085-2X5Y	PHD-10Y	8	11.9

CUSTOMER DRAWING

			Unit	Scale	Size	Edition
Drawn	Naihao.Wang	2022.3.12	mm	5:1	A4	B2
Checked	Qu.Wang	2022.3.12	Sheet No.		1 Of 1	
Approved	Dongxu.Liu	2022.3.12	CWB 浙江合兴电子元件有限公司 CWB Electronics (Zhejiang) Co., Ltd.			

Title: 2.0mm pitch WTB housing

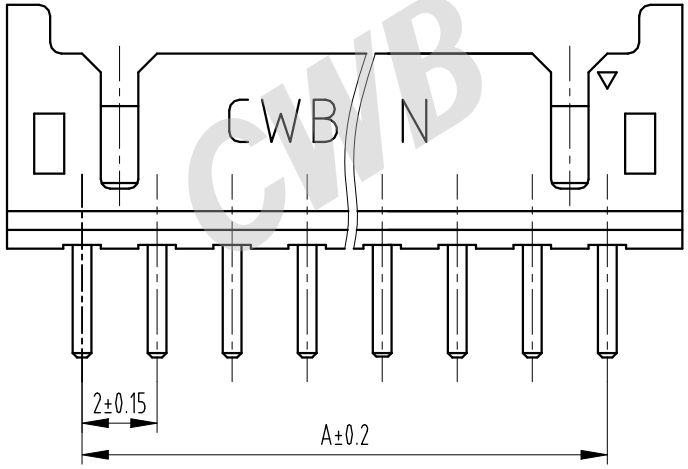
Part No.: TJC20085-2XnY(**-*)

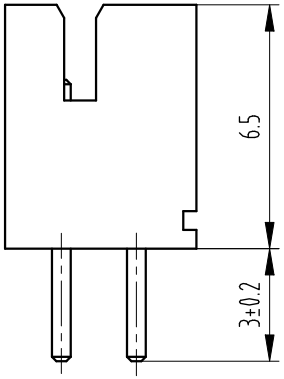
Previous part No.: PHD-nY

Document No.: CP-DWG-01244

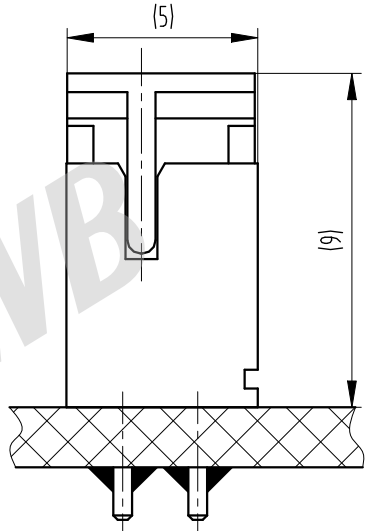
Specification No.: PS4118

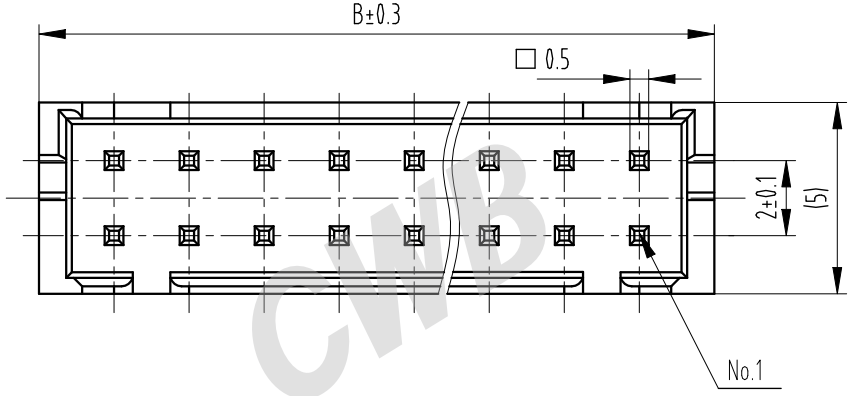
General tolerance	Dimension	Tolerance	Rev. No	Location	Description	Reviser	Date
	0~3	±0.13					
	3~18	±0.23					
	18~50	±0.35					
	≥50	±0.55					





Assembly view
(DIM FYI)





Notes:

1.Material

Wafer:

Standards: PA66+GF V-2

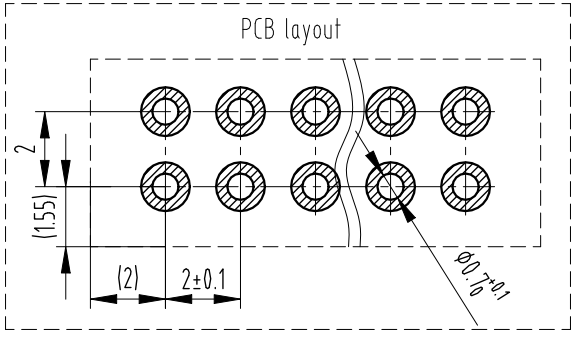
Others: PA66, UL94 V-0 GWT750℃

Post: Brass, tin plated

2.Matched housing: TJC20085-2XnY

3.Packaging: Tray

4.Compliant to the current RoHS



Ckts	Part No.	Previous part No.	Dimensions A	Dimensions B
32	TJC20085-2X16A	PHD-32A	30	34
30	TJC20085-2X15A	PHD-30A	28	32
28	TJC20085-2X14A	PHD-28A	26	30
26	TJC20085-2X13A	PHD-26A	24	28
24	TJC20085-2X12A	PHD-24A	22	26
22	TJC20085-2X11A	PHD-22A	20	24
20	TJC20085-2X10A	PHD-20A	18	22
18	TJC20085-2X9A	PHD-18A	16	20
16	TJC20085-2X8A	PHD-16A	14	18
14	TJC20085-2X7A	PHD-14A	12	16
12	TJC20085-2X6A	PHD-12A	10	14
10	TJC20085-2X5A	PHD-10A	8	12

CUSTOMER DRAWING

			Unit	Scale	Size	Edition
Drawn	Naihao.Wang	2022.3.12	mm	5:1	A4	B2
Checked	Qu.Wang	2022.3.12	Sheet No.	1 Of 1		
Approved	Dongxu.Liu	2022.3.12	CWB 浙江合兴电子元件有限公司 CWB Electronics (Zhejiang) Co., Ltd.			

Title: 2.0mm pitch WTB header

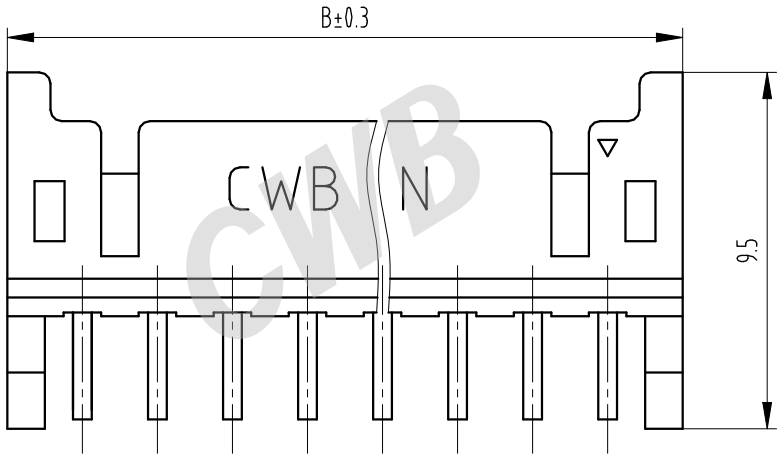
Part No.: TJC20085-2XnA *(**-*)

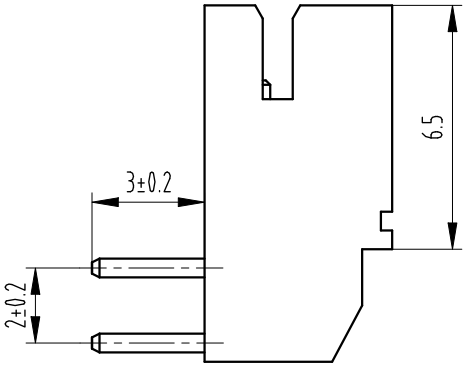
Previous part No.: PHD-nA

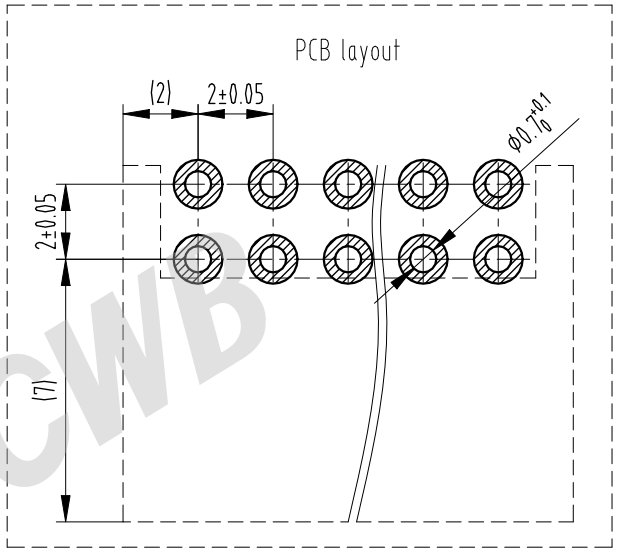
Document No.: CP-DWG-01245

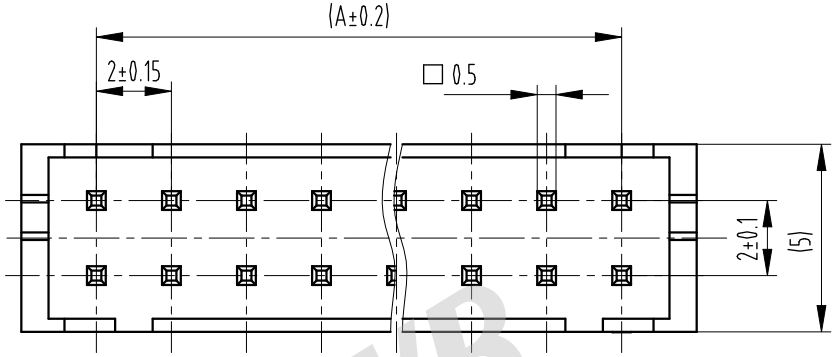
Specification No.: PS4118

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					

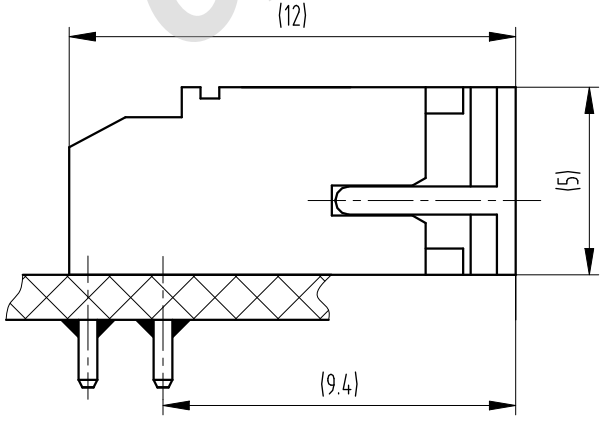








Assembly view
(DIM FYI)



Notes:

1.Material

Wafer:

Standards: PA66+GF V-2

Others: PA66, UL94 V-0 GWT750℃

Post: Brass, tin plated

2.Matched housing: TJC20085-2XnY

3.Packaging: tray

4.Compliant to the current RoHS

Ckts	Part No.	Previous part No.	Dimensions A	Dimensions B
34	TJC20085-2X17AWJ	PHD-34AWJ	32	36
32	TJC20085-2X16AWJ	PHD-32AWJ	30	34
30	TJC20085-2X15AWJ	PHD-30AWJ	28	32
28	TJC20085-2X14AWJ	PHD-28AWJ	26	30
26	TJC20085-2X13AWJ	PHD-26AWJ	24	28
24	TJC20085-2X12AWJ	PHD-24AWJ	22	26
22	TJC20085-2X11AWJ	PHD-22AWJ	20	24
20	TJC20085-2X10AWJ	PHD-20AWJ	18	22
18	TJC20085-2X9AWJ	PHD-18AWJ	16	20
16	TJC20085-2X8AWJ	PHD-16AWJ	14	18
14	TJC20085-2X7AWJ	PHD-14AWJ	12	16
12	TJC20085-2X6AWJ	PHD-12AWJ	10	14
10	TJC20085-2X5AWJ	PHD-10AWJ	8	12

CUSTOMER DRAWING

			Unit	Scale	Size	Edition
Drawn	Naihao.Wang	2022.3.12	mm	5:1	A4	B2
Checked	Qu.Wang	2022.3.12	Sheet No.	1 Of 1		
Approved	Dongxu.Liu	2022.3.12	CWB 浙江合兴电子元件有限公司 CWB Electronics (Zhejiang) Co., Ltd.			

Title: 2.0mm pitch WTB header

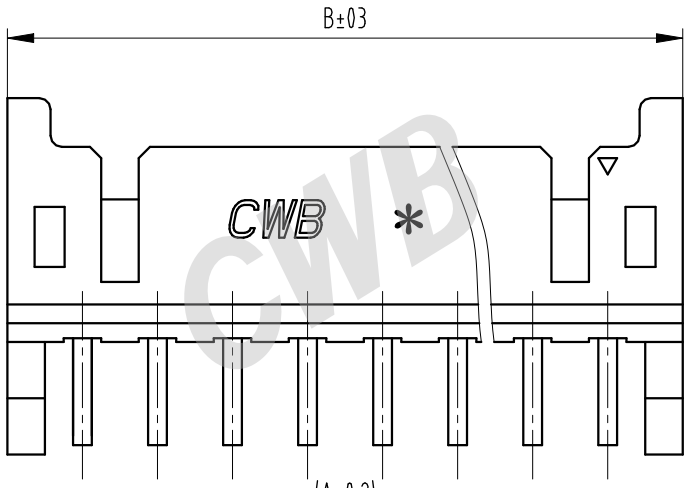
Part No.: TJC20085-2XnAWJ *(**-*)

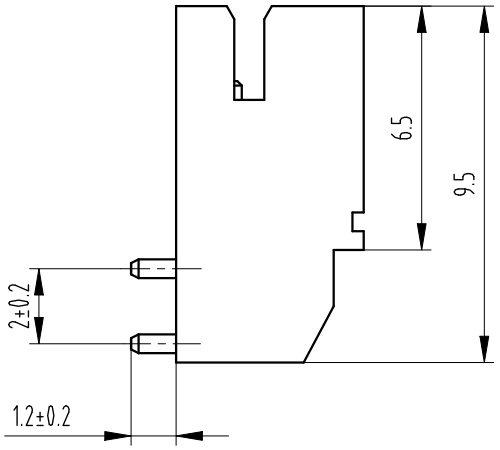
Previous part No.: PHD-nAWJ

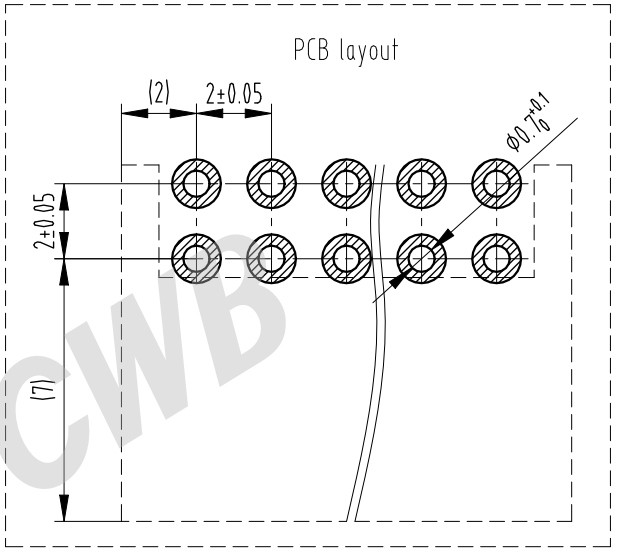
Document No.: CP-DWG-01246

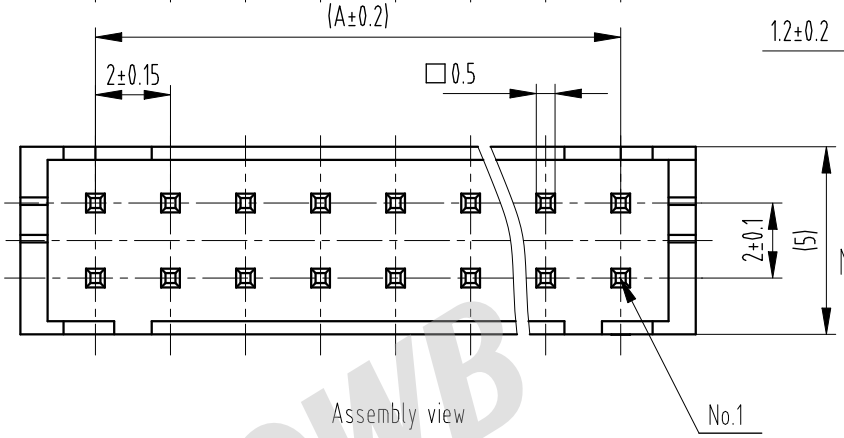
Specification No.: PS4118

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

Wafer:

Standards: PA66+GF V-2

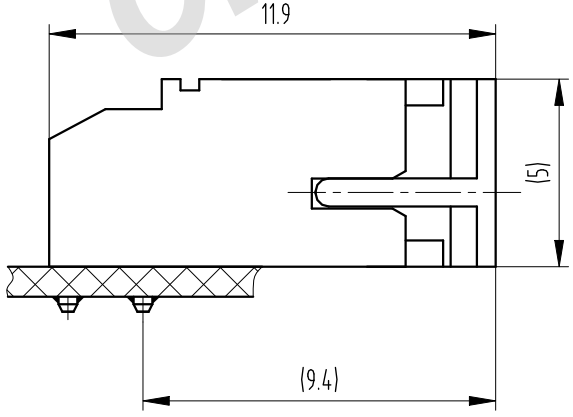
Others: PA66, UL94 V-0 GWT750℃

Post: Brass, tin plated

2.Matched housing: TJC20085-2XnY

3.Packaging: tray

4.Compliant to the current RoHS



Ckts	Part No.	Previous part No.	A	B
			Dimensions	
34	TJC20085-2X17AWJ1.2	PHD-34AWJ-1.2	32	36
32	TJC20085-2X16AWJ1.2	PHD-32AWJ-1.2	30	34
30	TJC20085-2X15AWJ1.2	PHD-30AWJ-1.2	28	32
28	TJC20085-2X14AWJ1.2	PHD-28AWJ-1.2	26	30
26	TJC20085-2X13AWJ1.2	PHD-26AWJ-1.2	24	28
24	TJC20085-2X12AWJ1.2	PHD-24AWJ-1.2	22	26
22	TJC20085-2X11AWJ1.2	PHD-22AWJ-1.2	20	24
20	TJC20085-2X10AWJ1.2	PHD-20AWJ-1.2	18	22
18	TJC20085-2X9AWJ1.2	PHD-18AWJ-1.2	16	20
16	TJC20085-2X8AWJ1.2	PHD-16AWJ-1.2	14	18
14	TJC20085-2X7AWJ1.2	PHD-14AWJ-1.2	12	16
12	TJC20085-2X6AWJ1.2	PHD-12AWJ-1.2	10	14
10	TJC20085-2X5AWJ1.2	PHD-10AWJ-1.2	8	12

CUSTOMER DRAWING

			Unit	Scale	Size	Edition
Drawn	Naihao.Wang	2022.3.12	mm	5:1	A4	B2
Checked	Qu.Wang	2022.3.12	Sheet No.	1 Of 1		
Approved	Dongxu.Liu	2022.3.12	CWB 浙江合兴电子元件有限公司 CWB Electronics (Zhejiang) Co., Ltd.			

Title: 2.0mm pitch WTB contact

Part No.: TJC20085-2XnAWJ1.2 *(**-*)

Previous part No.: PHD-nAWJ-1.2

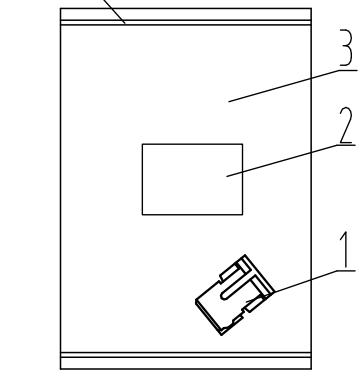
Document No.: CP-DWG-01247

Specification No.: PS4118

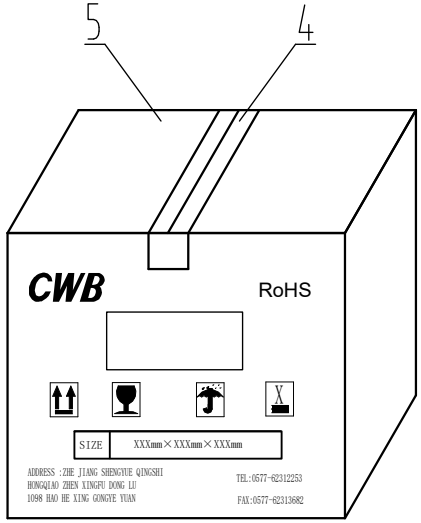
General tolerance	Dimension	Tolerance	Rev. No	Location	Description	Reviser	Date
	0~3	±0.13					
	3~18	±0.23					
	18~50	±0.35					
	≥50	±0.55					

Packing bag

Sealed



Packing box



Number	Designation
5	Packing box
4	Gummed tape
3	Packing bag
2	Centificate
1	TJC20085 Series housing

Part No.	Previous part No.	Pcs/bag
TJC20085-2X16Y	PHD-32Y	1000
TJC20085-2X15Y	PHD-30Y	1000
TJC20085-2X14Y	PHD-28Y	1000
TJC20085-2X13Y	PHD-26Y	1000
TJC20085-2X12Y	PHD-24Y	1000
TJC20085-2X11Y	PHD-22Y	1000
TJC20085-2X10Y	PHD-20Y	1000
TJC20085-2X9Y	PHD-18Y	1000
TJC20085-2X8Y	PHD-16Y	1000
TJC20085-2X7Y	PHD-14Y	1000
TJC20085-2X6Y	PHD-12Y	1000
TJC20085-2X5Y	PHD-10Y	1000

CUSTOMER DRAWING

			Unit	Scale	Size	Edition
Drawn	Naihao.Wang	2022.3.12	mm	/	A4	B2
Checked	Qu.Wang	2022.3.12	Sheet No.		1 Of 1	
Approved	Dongxu.Liu	2022.3.12	CWB 浙江合兴电子元件有限公司 CWB Electronics (Zhejiang) Co., Ltd.			

Title: Packaging specification

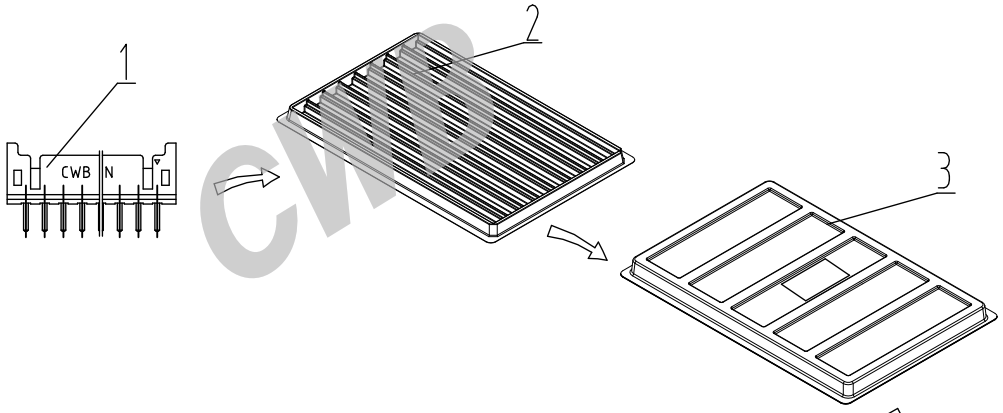
Part No.: TJC20085-2XnY(**-*)

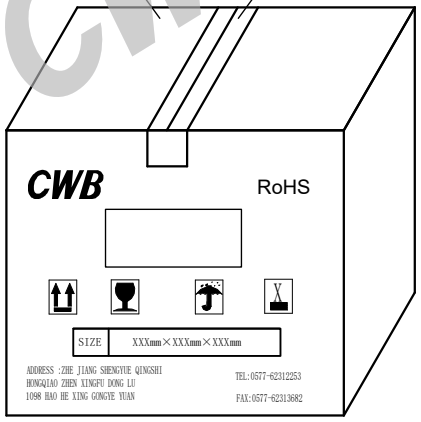
Previous part No.: PHD-nY

Document No.: BZ-DWG-00693

Specification No.: PS4118

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
7	Packing box
6	Gummed tape
5	Packing bag
4	Centificate
3	Cap
2	Tray
1	TJC20085 series header

Part No.	Previous part No.	Pcs/case
TJC20085-2X16A	PHD-32A	140
TJC20085-2X15A	PHD-30A	140
TJC20085-2X14A	PHD-28A	160
TJC20085-2X13A	PHD-26A	180
TJC20085-2X12A	PHD-24A	180
TJC20085-2X11A	PHD-22A	200
TJC20085-2X10A	PHD-20A	220
TJC20085-2X9A	PHD-18A	240
TJC20085-2X8A	PHD-16A	280
TJC20085-2X7A	PHD-14A	300
TJC20085-2X6A	PHD-12A	360
TJC20085-2X5A	PHD-10A	420

Part No.	Previous part No.	Pcs/case
TJC20085-2X16AWJ1.2	PHD-32AWJ-1.2	112
TJC20085-2X15AWJ1.2	PHD-30AWJ-1.2	112
TJC20085-2X14AWJ1.2	PHD-28AWJ-1.2	128
TJC20085-2X13AWJ1.2	PHD-26AWJ-1.2	144
TJC20085-2X12AWJ1.2	PHD-24AWJ-1.2	144
TJC20085-2X11AWJ1.2	PHD-22AWJ-1.2	160
TJC20085-2X10AWJ1.2	PHD-20AWJ-1.2	176
TJC20085-2X9AWJ1.2	PHD-18AWJ-1.2	192
TJC20085-2X8AWJ1.2	PHD-16AWJ-1.2	224
TJC20085-2X7AWJ1.2	PHD-14AWJ-1.2	240
TJC20085-2X6AWJ1.2	PHD-12AWJ-1.2	288
TJC20085-2X5AWJ1.2	PHD-10AWJ-1.2	336
TJC20085-2X16AWJ	PHD-32AWJ	112
TJC20085-2X15AWJ	PHD-30AWJ	112
TJC20085-2X14AWJ	PHD-28AWJ	128
TJC20085-2X13AWJ	PHD-26AWJ	144
TJC20085-2X12AWJ	PHD-24AWJ	144
TJC20085-2X11AWJ	PHD-22AWJ	160
TJC20085-2X10AWJ	PHD-20AWJ	176
TJC20085-2X9AWJ	PHD-18AWJ	192
TJC20085-2X8AWJ	PHD-16AWJ	224
TJC20085-2X7AWJ	PHD-14AWJ	240
TJC20085-2X6AWJ	PHD-12AWJ	288
TJC20085-2X5AWJ	PHD-10AWJ	336

CUSTOMER DRAWING

Drawn	Naihao.Wang	2022.3.12
Checked	Qu.Wang	2022.3.12
Approved	Dongxu.Liu	2022.3.12

Unit	Scale	Size	Edition
mm	/	A4	B3

Sheet No. 1 Of 1

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

Title: Packaging specification

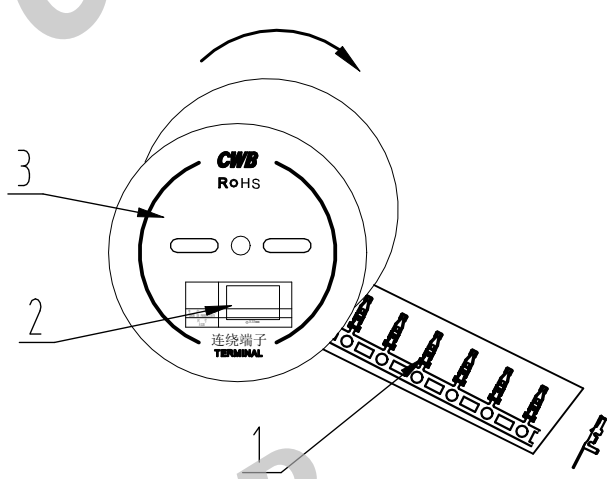
Part No.: TJC20085 series header

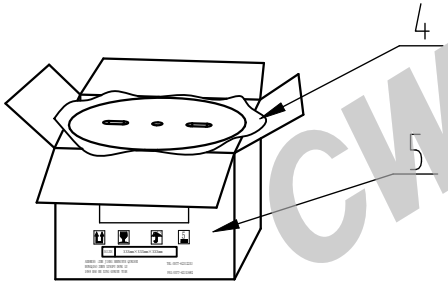
Previous part No.: /

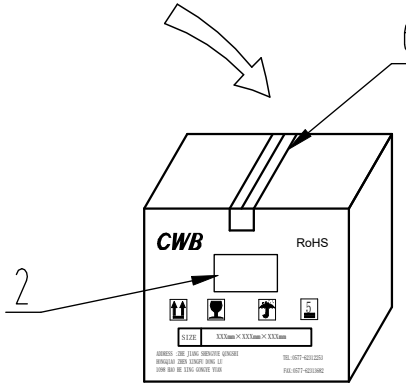
Document No.: BZ-DWG-00694

Specification No.: PS4118

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
6	Gummed tape	
5	Packing box	
4	Packing bag	
3	Reel	
2	Certificate	
1	CH-TJC20085-1/ PHD-1	8Kpcs/reel
	CH-TJC20085/PHD	8Kpcs/reel

CUSTOMER DRAWING

Title: Packaging specification

			Unit	Scale	Size	Edition
Drawn	Naihao.Wang	2022.3.12	mm	/	A4	B2
Checked	Qu.Wang	2022.3.12	Sheet No.		1 Of 1	
Approved	Dongxu.Liu	2022.3.12	CWB 浙江合兴电子元件有限公司 CWB Electronics (Zhejiang) Co., Ltd.			

Part No.:CH-TJC20085-**/CH-TJC20085-1-**

Previous part No.: PHD /PHD-1

Document No.: BZ-DWG-00695

Specification No.: PS4118

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

TJC20085 系列命名规则

TJC20085 series naming convention

1. Contact

CH-TJC20085-*-**

CH – TJC20085 – * – * *

- Plating type: none…Bright tin
- Manufacture sequence: none…standards, plating before stamping,
- Barrel mark: none…AWG28#~AWG24#
  1…AWG22#
- Series name
- Contact category: CH…Socket Contact

2. Housing

TJC20085-nY (-*)**

TJC20085 – 2×n Y (WT * -*)

- Flammability: None…UL94 V-0, -2…V-2
- Material: None…PA66
- Color: WT…White, BK…Black, GN…Green, BL…Blue, RD…Red,
  YW…Yellow, OG…Orange, VT…Violet, GY…Gray
- Product category: Y…Housing
- No. of circuits:5~16
- Series name

3. Header

TJC20085-2×nA*(-*), TJC20085-2×nAWJ(**-*), TJC20085-2×nAWJ1.2(**-*)**

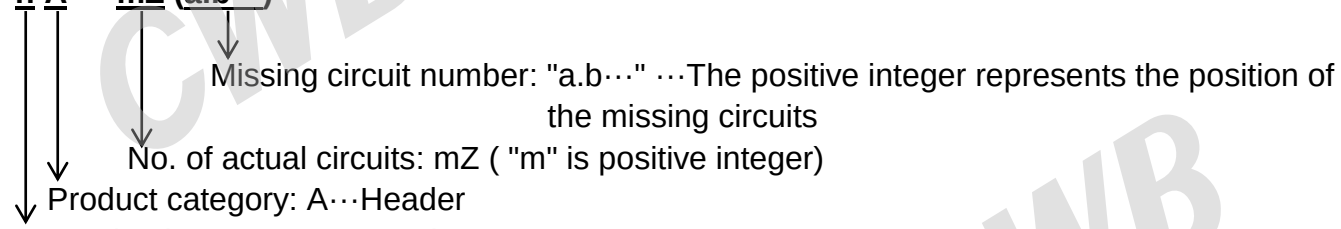
TJC20085 – 2× n A * * * * (WT * -*)

- Flammability: None…UL94 V-0, -2…V-2
- Material: None…PA66, 1…PA66+GF
- Color: WT…White, BK…Black, GN…Green, BL…Blue, RD…Red,
  YW…Yellow, OG…Orange, VT…Violet, GY…Gray
- Glow wire: None…normal, GW…GWT 750℃
- Post length: None…3mm, 1.2…1.2mm
- Structure mark: None…Standard, D…With boss, J…With PCB stabilizer
- Installation direction: None…Top entry type, W…Side entry type
- Product category: A…Header
- No. of circuits: AWJ…5~17, others…5~16
- Number of rows: 2×…2 rows
- Series name

4. Header which missing circuits

TJC20085-2×nAmZ(a.b…)(-*), TJC20085-2×nAWJmZ(a.b…)(**-*),**
TJC20085-2×nAWJmZ(a.b…)1.2(-*)**

…**n A** … **mZ** (**a.b**…)…



Part No.	Circuit No. ○:with post; ×:without post														
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
…13**A** … **7Z(2.3.5.7.9.11)**…	○	×	×	○	×	○	×	○	×	○	×	○	○		
…4**A** … **3Z(2)**…	○	×	○	○											
……	……														