

标题: EH 系列连接器

Title: EH Connector

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	审核 Check: <u>王曲 2022. 3. 11</u>	编号 Document No.: <u>PS4098</u>
	批准 Approval: <u>刘冬旭 2022. 3. 11</u>	版本 Revision: <u>1</u>

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	/	初版发放 First release	王曲 2021/08/26
1	/	根据最新产品命名规则修订规格书 Update specifications and part no according to new naming specifications	汪乃浩 2022/03/11

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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 WTB 2.5 阴型 & 阳型电子连接器，产品名称：EH。

This product specification covers the requirement for wire to board 2.5mm pitch Receptacle & Plug connector, which are designed and manufactured by CWB Electronics(ZheJiang) Co.,LTD. P/N: EH.

3.产品描述 Product description

EH 系列产品为家电连接器产品，产品部件组成如下：

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

零件名称 Part name	规格型号 Part No.	曾用规格型号 Previous part No.	描述 Description
插簧 Contact	CH-EH-**-*	EH	AWG # 24~AWG # 22
插簧 Contact	CH-EH-1-**-*	EH-1	AWG # 28~AWG # 26
孔座 Housing	EH-nY(**-*)	EH-nY	PA66 UL94V-0
阳连接器（立式，直插，含小弯） Header (V, DIP, W/kink)	EH-nAK(**-*)	EH-nA	Wafer: Standards: PA66 UL94V-0 Others: PA66+GF V-2 Post: Brass, tin plated
阳连接器（卧式，直插，含小弯） Header (H, DIP, W/kink)	EH-nAWK(**-*)	EH-nAW	
阳连接器（立式，直插，带定位柱，含小弯） Header (V, DIP, W/Boss, W/kink)	EH-nADK(**-*)	EH-nAD	
阳连接器（卧式，直插，带挡板，含小弯） Header(H, DIP, W/PCB stabilizer, W/kink)	EH-nAWJK(**-*)	EH-nAWJ	
阳连接器（立式，直插，含小弯） Header (V, DIP, W/kink)	EH-nAK-1(**-*)	EH-nA4.0	
阳连接器（卧式，直插，含小弯） Header (H, DIP, W/kink)	EH-nAWK-1 (**-*)	EH-nAW4.0	
阳连接器（立式，直插，带定位柱，含小弯） Header (V, DIP, W/oss, W/kink)	EH- nADK-1(**-*)	EH-nAD4.0	
阳连接器（卧式，直插，带挡板，含小弯） Header (H, DIP, W/PCB stabilizer, W/kink)	EH- nAWJK-1(**-*)	EH-nAWJ4.0	

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

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

产品符合 RoHS 标准。

The product should comply with RoHS.

5.参数范围 Parameter ratings:

额定电流 [AC(有效值)/DC] Rated current [AC(rms)/DC]	AWG # 22: 3A
适用 PCB 板 Applicable PCB	Board thickness:0.8mm-1.6mm Hole diameter:φ0.9+0.1/-0mm
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)	-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)	CH-EH Wire size: AWG # 24~AWG # 22(0.2mm ² -0.32 mm ²) Insulation diameter: φ1.4mm-φ1.6mm CH-EH-1 Wire size: AWG # 28~AWG # 26(0.08mm ² -0.13 mm ²) Insulation diameter: φ1.2mm-φ1.3mm

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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 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	端子固定力 Retention force for contact	应测量将端子沿轴线方向拔出孔座的力, 测试速度不大于 25 mm/min。 The force of pulling the contact out of the housing along the axis shall be measured (Testing speed: <25 mm/min.) GB/T 5095.8 Method 15d / EIA-364-29B	15N Min																																																																															
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.) GB/T 5095.8 Method 15a / EIA-364-29B	10N Min																																																																															
6.1.4	压着部位抗张强度 Crimp tensile strength	在已压接端子的头部和导线上施加拉力, 并测量将导线从端子拉出或导线断裂所需的力, 测试速度不大于 25 mm/min。 Pulling load shall be applied to a correctly crimped contact and a wire. The load required to pull the wire out of the contact or break the wire shall be measured. (Testing speed: <25 mm/min.) GB/T5095.8 Method 16d / EIA-364-08B	AWG # 28: 10N Min. AWG # 26: 20N Min. AWG # 24: 30N Min. AWG # 22: 50N Min.																																																																															
6.1.5	成品插入力与拔出力 (去锁扣) Insertion force and withdrawal force (without lock)	将装有已压接端子的孔座与阳连接器做插入和拔出, 测量首次插入力、首次拔出力及第50次拔出力, 测试速度不大于 25 mm/min。 A housing with crimped contacts and a header shall be mated and unmated on the mating axis. Initial insertion and withdrawal forces and withdrawal force at 50th. shall be measured. (Testing speed: <25 mm/min.) GB/T 5095.7 Method 13b / EIA-364-13B	<table border="1"> <thead> <tr> <th rowspan="2">No. of poles</th> <th colspan="2">插入力 (最大值) Insertion (Max.)</th> <th colspan="2">拔出力 (最小值) Withdrawal (Min.)</th> </tr> <tr> <th>初次 1st.</th> <th>第五次 50st.</th> <th>初次 1st.</th> <th>第五次 50st.</th> </tr> </thead> <tbody> <tr><td>2</td><td>20N</td><td>4N</td><td>4N</td><td>4N</td></tr> <tr><td>3</td><td>25N</td><td>5N</td><td>5N</td><td>5N</td></tr> <tr><td>4</td><td>30N</td><td>5N</td><td>5N</td><td>5N</td></tr> <tr><td>5</td><td>35N</td><td>7N</td><td>7.5N</td><td>7.5N</td></tr> <tr><td>6</td><td>40N</td><td>8N</td><td>7N</td><td>7N</td></tr> <tr><td>7</td><td>45N</td><td>9N</td><td>8N</td><td>8N</td></tr> <tr><td>8</td><td>50N</td><td>10N</td><td>9N</td><td>9N</td></tr> <tr><td>9</td><td>55N</td><td>11N</td><td>9N</td><td>9N</td></tr> <tr><td>10</td><td>60N</td><td>12N</td><td>10N</td><td>10N</td></tr> <tr><td>11</td><td>65N</td><td>13.5N</td><td>11N</td><td>11N</td></tr> <tr><td>12</td><td>70N</td><td>15N</td><td>14N</td><td>14N</td></tr> <tr><td>13</td><td>75N</td><td>16N</td><td>14N</td><td>14N</td></tr> <tr><td>14</td><td>80N</td><td>18N</td><td>16N</td><td>16N</td></tr> <tr><td>15</td><td>85N</td><td>20N</td><td>17N</td><td>17N</td></tr> </tbody> </table>	No. of poles	插入力 (最大值) Insertion (Max.)		拔出力 (最小值) Withdrawal (Min.)		初次 1st.	第五次 50st.	初次 1st.	第五次 50st.	2	20N	4N	4N	4N	3	25N	5N	5N	5N	4	30N	5N	5N	5N	5	35N	7N	7.5N	7.5N	6	40N	8N	7N	7N	7	45N	9N	8N	8N	8	50N	10N	9N	9N	9	55N	11N	9N	9N	10	60N	12N	10N	10N	11	65N	13.5N	11N	11N	12	70N	15N	14N	14N	13	75N	16N	14N	14N	14	80N	18N	16N	16N	15	85N	20N	17N	17N
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6.1.6	机械振动 Vibration	<p>插合连接器，串联在直流电源上，电流100 mA；并模拟正常工作状态：振频为（10~55~10） Hz，每个循环时间为1分钟，振幅1.52 mm。沿XYZ三轴正反方向各循环2小时。</p> <p>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.</p> <p>Frequency: (10~55~10) Hz/min.</p> <p>Cycling time: 1min.</p> <p>Amplitude: 1.52 mm.</p> <p>GB/T 5095.4 Method 6d / EIA-364-28D</p>	<p>外观：无损伤（参照6.1.1）</p> <p>Appearance: no damage.(refer to 6.1.1)</p> <p>接触电阻：20mΩ Max.</p> <p>Contact resistance: 20mΩ Max.</p> <p>电流中断时间：1μsec Max</p> <p>Current interruption: 1μsec Max</p>
6.1.7	机械冲击 Shock	<p>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100 mA电流。</p> <p>冲击强度：490 m/s²</p> <p>持续时间：11 ms</p> <p>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)</p> <p>Test pulse: 490 m/s²</p> <p>Duration: 11 ms</p> <p>GB/T 5095.4 Method 6c / EIA-364-27B</p>	<p>外观：无损伤（参照6.1.1）</p> <p>Appearance: no damage.(refer to 6.1.1)</p> <p>电流中断时间：1μsec Max</p> <p>Current interruption: 1μsec Max</p>
6.1.8	机械寿命 Durability	<p>以每分钟 10 次的速度插拔 50 次。</p> <p>50 cycles for mating and unmating test at the speed of 10 cycles per minute</p> <p>GB/T 5095.5 Method 9a / EIA-364-09C</p>	<p>外观：无损伤（参照6.1.1）</p> <p>Appearance: no damage.(refer to 6.1.1)</p> <p>接触电阻：20mΩ Max.</p> <p>Contact resistance: 20mΩ Max.</p>

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	<p>插配阴阳连接器后,用小功率电路进行测试。</p> <p>Mate connectors with dry circuit to test contact resistance</p> <p>GB/T 5095.2 Method 2a / EIA-364-23B</p>	<p>10mΩ Max. (Initial)</p> <p>20mΩ Max. (Final)</p>
6.2.2	绝缘电阻 Insulation resistance	<p>在相邻接触件之间或地线之间,用 500 V DC 电压进行测试。</p> <p>Apply a voltage of 500 V DC between adjacent contacts and between contacts to ground.</p> <p>GB/T 5095.2 Method 3a / EIA-364-21C</p>	<p>1000 MΩ Min. (Initial)</p> <p>800 MΩ Min. (Final)</p>
6.2.3	耐电压 Withstand voltage	<p>相邻接触件之间或地线之间施加 1000 V AC (有效值),漏电流 1 mA 的电压作用,时间 1min.。</p> <p>Apply a voltage of 1000 V AC (rms) and leakage current of 1 mA between adjacent contacts or ground cables for 1 minute.</p> <p>GB/T 5095.2 Method 4a / EIA-364-20B</p>	<p>外观：无击穿和飞弧现象</p> <p>Appearance: no breakdown or flashover</p>
6.2.4	温升 Temperature rise	<p>插合连接器，通以最大允许电流，测温度的差值。</p> <p>Mate connectors and measure the temperature rise of contact when the maximum AC rated current is passed.</p> <p>GB/T 5095.3 Method 5a / EIA-364-70A</p>	<p>Δ30°C Max.</p>

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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) °C 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) °C 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: 800 MΩ Min. Insulation resistance:800 MΩ Min. 耐电压: 1000V Min. Withstand voltage: 1000V Min.										
6.3.2	耐低温 Cold resistance	连接器配合后, 于 (-25±2) °C 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 (-25±2) °C for 240hours, 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: 800 MΩ Min. Insulation resistance:800 MΩ Min. 耐电压: 1000V Min. Withstand voltage: 1000V Min.										
6.3.3	恒定湿热 Humidity	温度(40±2) °C, 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) °C, 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: 800 MΩ Min. Insulation resistance: 800 MΩ Min. 耐电压: 1000V Min. Withstand voltage: 1000V 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) °C 的恒温条件下放置 0.5 小时; b) 在(85±2) °C 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 border="1" style="margin-left: 20px;"> <thead> <tr> <th>Temperature °C</th> <th>Duration</th> </tr> </thead> <tbody> <tr> <td>1 -55±2</td> <td>0.5 h</td> </tr> <tr> <td>2 Room Temp.</td> <td>5 minutes Max.</td> </tr> <tr> <td>3 +85±2</td> <td>0.5 h</td> </tr> <tr> <td>4 Room Temp.</td> <td>5 minutes Max.</td> </tr> </tbody> </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 °C	Duration	1 -55±2	0.5 h	2 Room Temp.	5 minutes Max.	3 +85±2	0.5 h	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: 800 MΩ Min. Insulation resistance: 800 MΩ Min. 耐电压: 1000V Min. Withstand voltage: 1000V Min.
Temperature °C	Duration												
1 -55±2	0.5 h												
2 Room Temp.	5 minutes Max.												
3 +85±2	0.5 h												
4 Room Temp.	5 minutes Max.												
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) °C 温度下连续雾化 48 小时, 试验后用流动的蒸馏水轻轻洗去表面沉积物。在常温常湿条件下恢复 (1~2) 小时。 48 hours spray, at temp (35±2) °C, NaCl mist concentration (5±1) %. After test wash parts and put it into room ambient for (1~2) hours 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.										

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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) °C、湿度 75 %、H ₂ S 气体浓度为 3ppm 的环境中放置 96 小时。 Mated connectors exposed to the condition of temperature (40±3) °C, humidity 75 %, H ₂ S gas concentration of 3ppm 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	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) °C, 时间 (4~5) 秒。 Dip solder tails into the molten solder held at (245±5) °C for (4~5) seconds IPC EIA IPC JEDEC J STD 002E	上锡率≥90%: Solder coverage: ≥90%
6.3.9	耐焊接热 Resistance to soldering heat	1.耐波峰焊热: 把试验样品需要焊接的部位浸入焊锡炉中, 锡炉温度 (260±5) °C; 时间 (5±1) 秒后, 在正常条件下恢复 (1~2) 小时。(温度曲线见图 1) 2.手工焊接: 温度 (350±10) °C, 时间(1~2) seconds。 1. Resistance to wave soldering heat: Dip solder tails into the molten solder held at (260±5) °C for (5 ±1) seconds, recovery time (1~2) hours. (The temperature curve is shown in Figure 1) 2. Manual soldering: (350 ± 10) °C for (1~2) seconds	外观: 无损伤 (参照6.1.1) Appearance: no damage.(refer to 6.1.1)

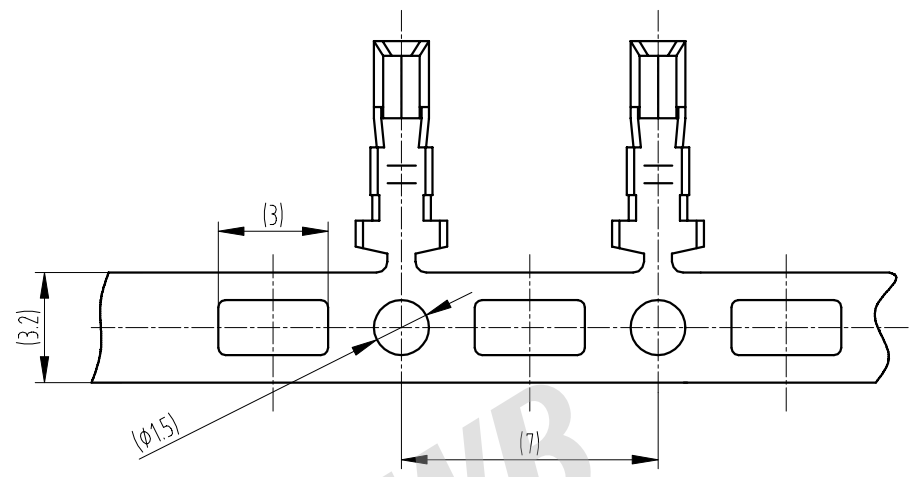
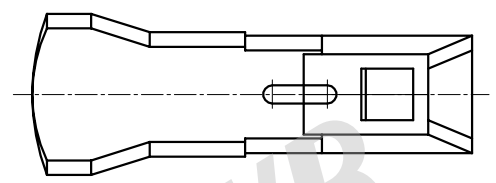
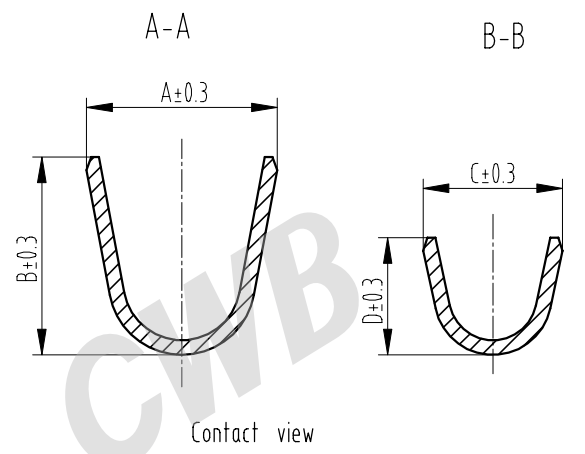
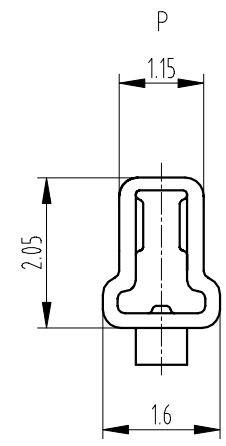
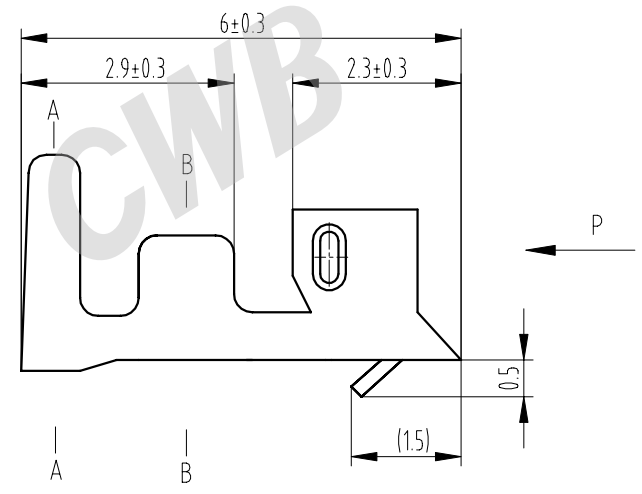
产品名称 Product name	EH 系列	编号 Document No.	PS4098	版本号 Version No.	1
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7.测试分组 Test sequences (Samples:5PCS)

测试组 Group number	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q
外观 Appearance	1	1	1	1	1,5	1	1,7	1	1,7	1,7	1,7	1,7	1,5	2	1,3	1	1,3
端子固定力 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							5										
接触电阻 Contact resistance					2,4		2,6		2,4	2,4	2,4	2,4	2,4	2,4			
绝缘电阻 Insulation resistance							3		5	5	5	5					
耐电压 Withstand voltage							4		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													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		
可焊性 Solderability																2	
耐焊接热 Resistance to soldering heat																	2

产品名称 Product name	EH 系列	编号 Document No.	PS4098	版本号 Version No.	1
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General tolerance	Dimension	Tolerance	Rev. No	Location	Description	Reviser	Date
	0~3	±0.13					
	3~18	±0.23					
	18~50	±0.35					
	≥50	±0.55					



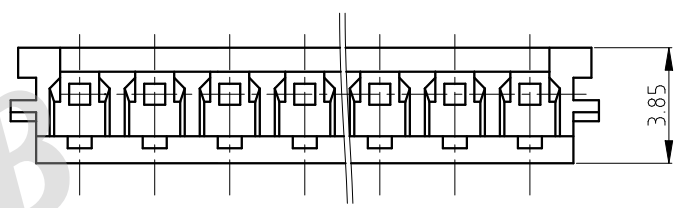
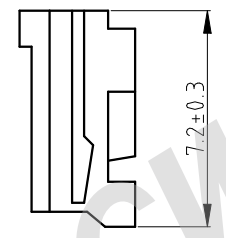
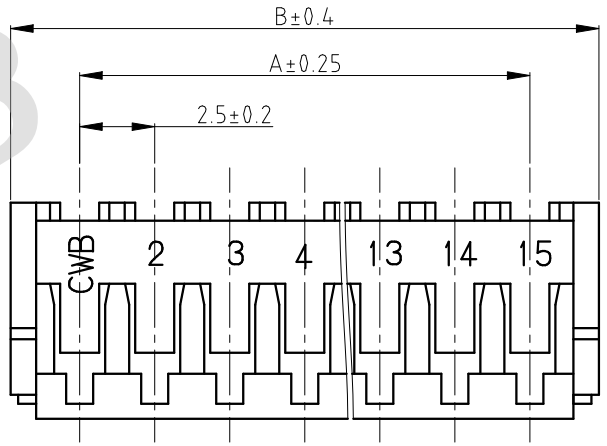
Notes:

- Material: Phosphor bronze, thickness=0.2mm
- Surface finish: tin plated
- Matched housing: EH-nY
- Applicable wires:
 - CH-EH: AWG # 24~AWG # 22
 - CH-EH-1: AWG # 26~AWG # 28
- Compliant to the current RoHS

CH-EH-1	EH-1	2.5	2.1	1.75	1.3
CH-EH	EH	2.6	2.7	1.9	1.6
Part No.	Previous part No.	A	B	C	D

CUSTOMER DRAWING						Title: 2.5mm pitch WTB contact	
Drawn	Naihao Wang	2022.3.11	Unit	Scale	Size	Edition	Part No.: CH-EH-** / CH-EH-1-**
Checked	Qu Wang	2022.3.11	mm	10:1	A4	B2	Previous part No.: EH / EH-1
Approved	Dongxu Liu	2022.3.11	Sheet No.	1 Of 1			Document No.: CP-DWG-01104
CWB						Specification No.: PS4098	

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



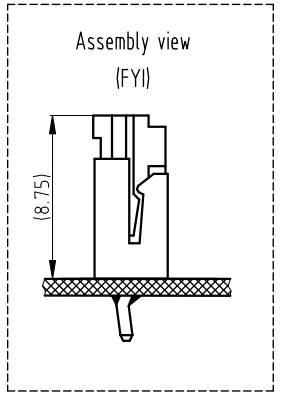
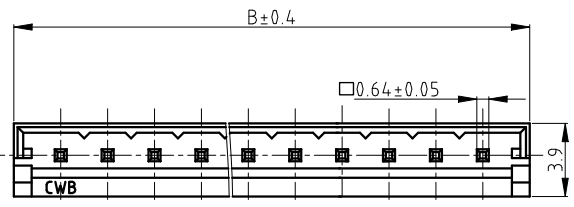
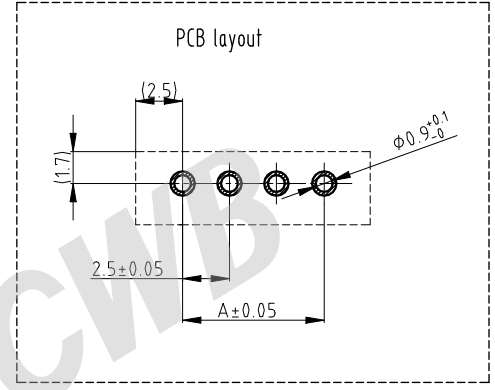
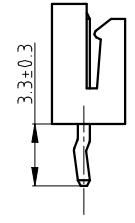
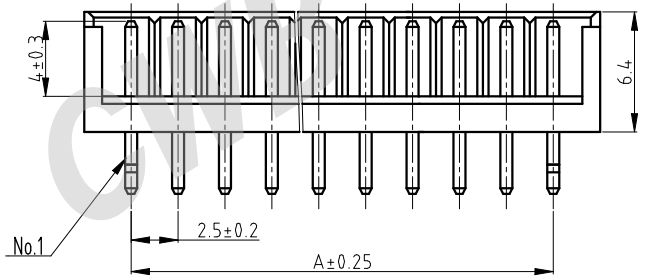
15	EH-15Y	35	39.5
14	EH-14Y	32.5	37.0
13	EH-13Y	30.0	34.5
12	EH-12Y	27.5	32.0
11	EH-11Y	25.0	29.5
10	EH-10Y	22.5	27.0
9	EH-9Y	20.0	24.5
8	EH-8Y	17.5	22.0
7	EH-7Y	15.0	19.5
6	EH-6Y	12.5	17.0
5	EH-5Y	10.0	14.5
4	EH-4Y	7.5	12.0
3	EH-3Y	5.0	9.5
2	EH-2Y	2.5	7.0
Ckts	Part No.	Dimensions	
		A	B

Notes:

- 1.Material: PA66 UL94 V-0
- 2.Matched header: EH-nAK, EH-nAWK, EH-nADK, EH-nAWJK,
EH-nAK-1, EH-nAWK-1, EH-nADK-1, EH-nAWJK-1
- 3.Matched contact: CH-EH, CH-EH-1
- 4.Packaging: packing bag
- 5.Compliant to the current RoHS

CUSTOMER DRAWING						Title:	
Drawn	Naihao.Wang	2022.3.11	Unit	Scale	Size	Edition	2.5mm pitch WTB housing
Checked	Qu.Wang	2022.3.11	mm	4:1	A4	B1	Part No.: EH-nY(**-*)
Approved	Dongxu.Liu	2022.3.11	Sheet No.	1 of 1			Previous part No.: /
CWB							Document No.: CP-DWG-01105
							Specification No.: PS4098

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



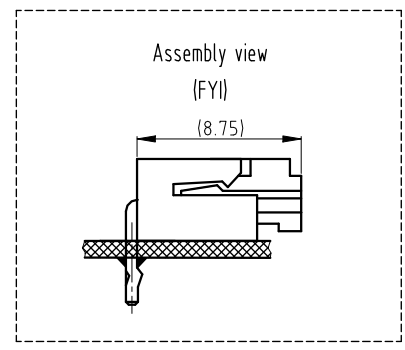
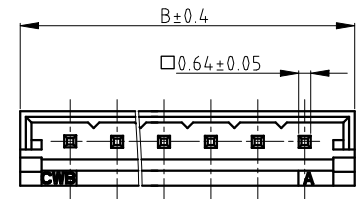
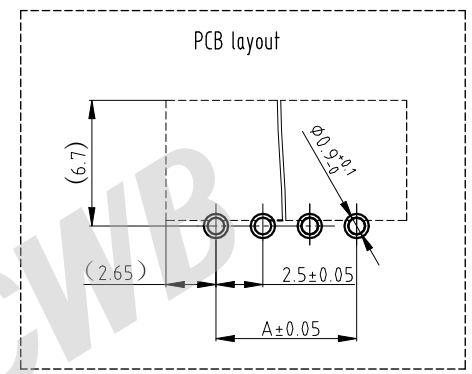
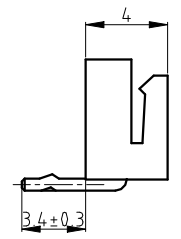
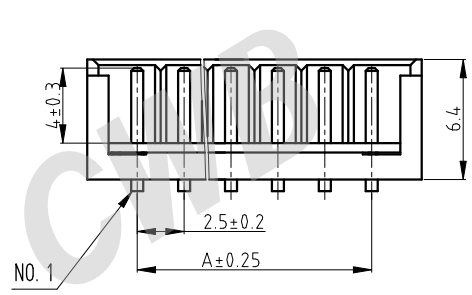
Notes:

- 1. Material
Wafer:
Standards: PA66 UL94 V-0
Others: PA66+GF, V-2
Post: Brass, tin plated
- 2. Matched housing: EH-nY
- 3. Packaging: packing bag
- 4. Compliant to the current RoHS

15	EH-15AK-1	EH-15A4.0	35	40
14	EH-14AK-1	EH-14A4.0	32.5	37.5
13	EH-13AK-1	EH-13A4.0	30.0	35
12	EH-12AK-1	EH-12A4.0	27.5	32.5
11	EH-11AK-1	EH-11A4.0	25.0	30
10	EH-10AK-1	EH-10A4.0	22.5	27.5
9	EH-9AK-1	EH-9A4.0	20.0	25
8	EH-8AK-1	EH-8A4.0	17.5	22.5
7	EH-7AK-1	EH-7A4.0	15.0	20
6	EH-6AK-1	EH-6A4.0	12.5	17.5
5	EH-5AK-1	EH-5A4.0	10.0	15
4	EH-4AK-1	EH-4A4.0	7.5	12.5
3	EH-3AK-1	EH-3A4.0	5.0	10.0
2	EH-2AK-1	EH-2A4.0	2.5	7.5
Ckts	Part No.	Previous part No.	Dimensions	
			A	B

CUSTOMER DRAWING						Title: 2.5mm pitch WTB header	
Drawn	Naihao.Wang	2022.3.11	Unit	Scale	Size	Edition	Part No.: EH-nAK-1(*-*-*)
Checked	Qu.Wang	2022.3.11	mm	2.5:1	A4	B1	Previous part No.: EH-nA4.0
Approved	Dongxu.Liu	2022.3.11	Sheet No.	1 Of 1			Document No.: CP-DWG-01106
CWB							Specification No.: PS4098

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					

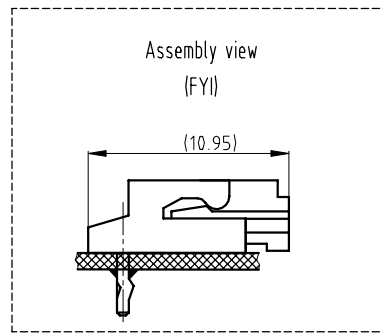
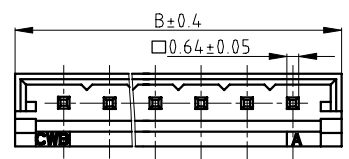
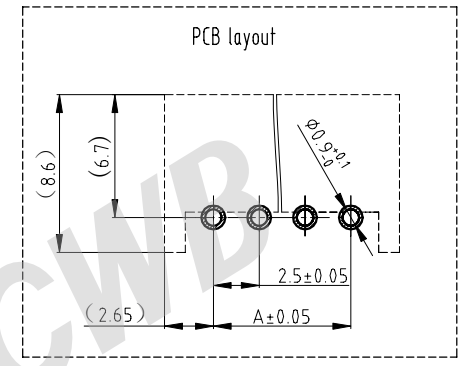
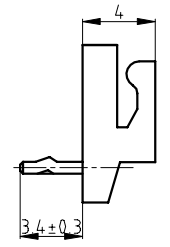
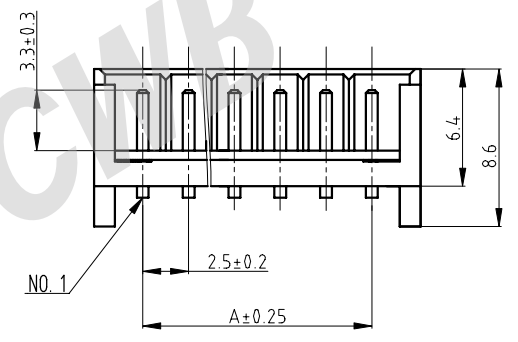


15	EH-15AWK-1	EH-15AW4.0	35	40
14	EH-14AWK-1	EH-14AW4.0	32.5	37.5
13	EH-13AWK-1	EH-13AW4.0	30.0	35
12	EH-12AWK-1	EH-12AW4.0	27.5	32.5
11	EH-11AWK-1	EH-11AW4.0	25.0	30
10	EH-10AWK-1	EH-10AW4.0	22.5	27.5
9	EH-9AWK-1	EH-9AW4.0	20.0	25
8	EH-8AWK-1	EH-8AW4.0	17.5	22.5
7	EH-7AWK-1	EH-7AW4.0	15.0	20
6	EH-6AWK-1	EH-6AW4.0	12.5	17.5
5	EH-5AWK-1	EH-5AW4.0	10.0	15
4	EH-4AWK-1	EH-4AW4.0	7.5	12.5
3	EH-3AWK-1	EH-3AW4.0	5.0	10.0
2	EH-2AWK-1	EH-2AW4.0	2.5	7.5
Ckts	Part No.	Previous part No.	Dimensions	
			A	B

- Notes:
- Material
Wafer:
Standards: PA66 UL94 V-0
Others: PA66+GF, V-2
Post: Brass, tin plated
 - Matched housing: EH-nY
 - Packaging: packing bag
 - Compliant to the current RoHS

CUSTOMER DRAWING						Title: 2.5mm pitch WTB header	
Drawn	Naihao Wang	2022.3.11	Unit	Scale	Size	Edition	Part No.: EH-nAWK-1(*-*)
Checked	Qu.Wang	2022.3.11	mm	2.5:1	A4	B1	Previous part No.: EH-nAW4.0
Approved	Dongxu.Liu	2022.3.11	Sheet No.		1 of 1		Document No.: CP-DWG-01107
CWB							Specification No.: PS4098

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					

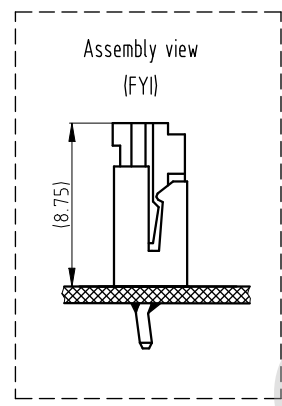
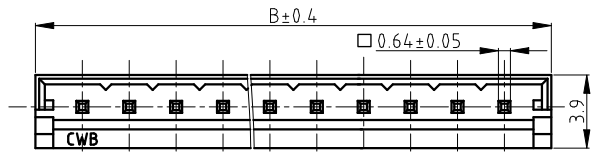
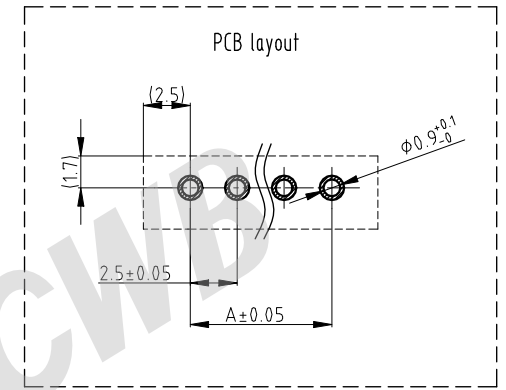
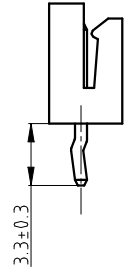
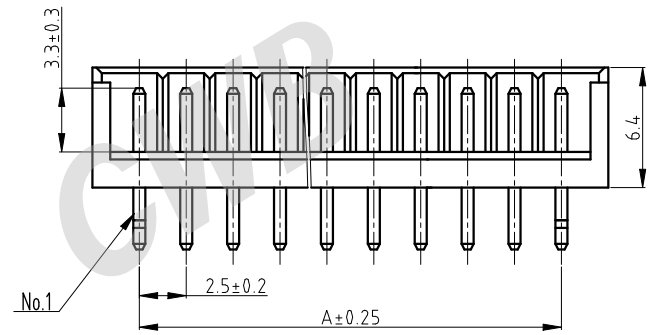


- Notes:
- Material
Wafer: Standards: PA66 UL94 V-0
Others: PA66+GF, V-2
Post: Brass, tin plated
 - Matched housing: EH-nY
 - Packaging: packing bag
 - Compliant to the current RoHS

15	EH-15AWJK	EH-15AWJ	35	40
14	EH-14AWJK	EH-14AWJ	32.5	37.5
13	EH-13AWJK	EH-13AWJ	30.0	35
12	EH-12AWJK	EH-12AWJ	27.5	32.5
11	EH-11AWJK	EH-11AWJ	25.0	30
10	EH-10AWJK	EH-10AWJ	22.5	27.5
9	EH-9AWJK	EH-9AWJ	20.0	25
8	EH-8AWJK	EH-8AWJ	17.5	22.5
7	EH-7AWJK	EH-7AWJ	15.0	20
6	EH-6AWJK	EH-6AWJ	12.5	17.5
5	EH-5AWJK	EH-5AWJ	10.0	15
4	EH-4AWJK	EH-4AWJ	7.5	12.5
3	EH-3AWJK	EH-3AWJ	5.0	10.0
2	EH-2AWJK	EH-2AWJ	2.5	7.5
Ckts	Part No.	Previous part No.	Dimensions	
			A	B

CUSTOMER DRAWING						Title: 2.5mm pitch WTB header	
Drawn	Naihao.Wang	2022.3.11	Unit	Scale	Size	Edition	Part No.: EH-nAWJK(**-*)
Checked	Qu.Wang	2022.3.11	mm	2.5:1	A4	B2	Previous part No.: EH-nAWJ
Approved	Dongxu.Liu	2022.3.11	Sheet No.	1 Of 1			Document No.: CP-DWG-01112
CWB 浙江合兴电子元件有限公司 CWB Electronics (Zhejiang) Co., Ltd.							Specification No.: PS4098

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					



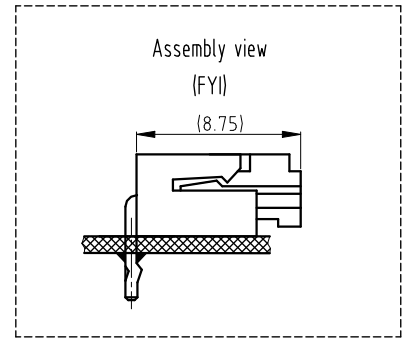
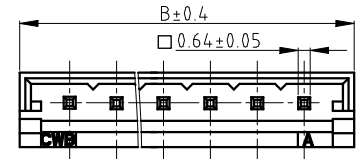
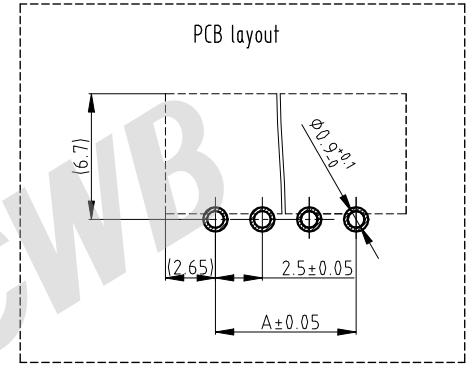
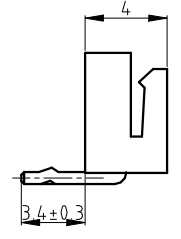
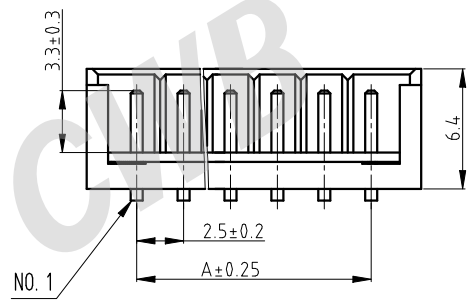
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14	EH-14AK	EH-14A	32.5	37.5
13	EH-13AK	EH-13A	30.0	35
12	EH-12AK	EH-12A	27.5	32.5
11	EH-11AK	EH-11A	25.0	30
10	EH-10AK	EH-10A	22.5	27.5
9	EH-9AK	EH-9A	20.0	25
8	EH-8AK	EH-8A	17.5	22.5
7	EH-7AK	EH-7A	15.0	20
6	EH-6AK	EH-6A	12.5	17.5
5	EH-5AK	EH-5A	10.0	15
4	EH-4AK	EH-4A	7.5	12.5
3	EH-3AK	EH-3A	5.0	10.0
2	EH-2AK	EH-2A	2.5	7.5
Ckts	Part No.	Previous part No.	A	B
			Dimensions	

Notes:

- 1. Material
Wafer:
Standards: PA66 UL94 V-0
Others: PA66+GF, V-2
Post: Brass, tin plated
- 2. Matched housing: EH-nY
- 3. Packaging: packing bag
- 4. Compliant to the current RoHS

CUSTOMER DRAWING						Title: 2.5mm pitch WTB header	
Drawn	Naihao.Wang	2022.3.11	Unit	Scale	Size	Edition	Part No.: EH-nAK(**-*)
Checked	Qu.Wang	2022.3.11	mm	2.5:1	A4	B1	Previous part No.: EH-nA
Approved	Dongxu.Liu	2022.3.11	Sheet No.	1 of 1			Document No.: CP-DWG-01109
CWB							Specification No.: PS4098

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

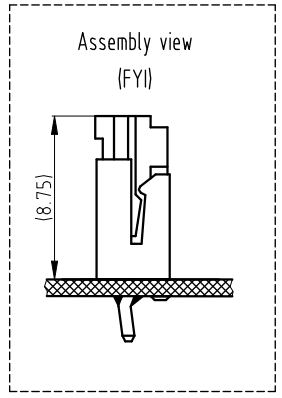
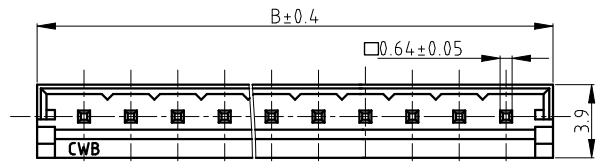
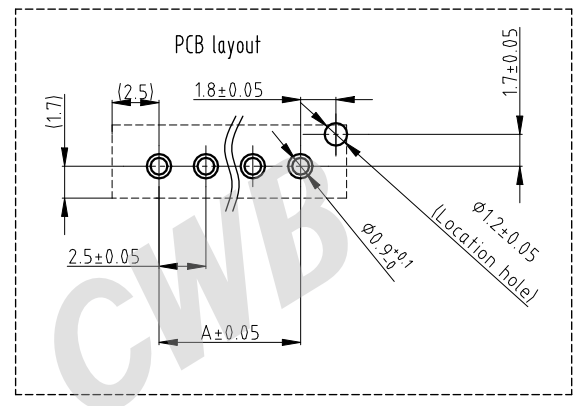
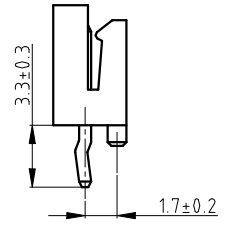
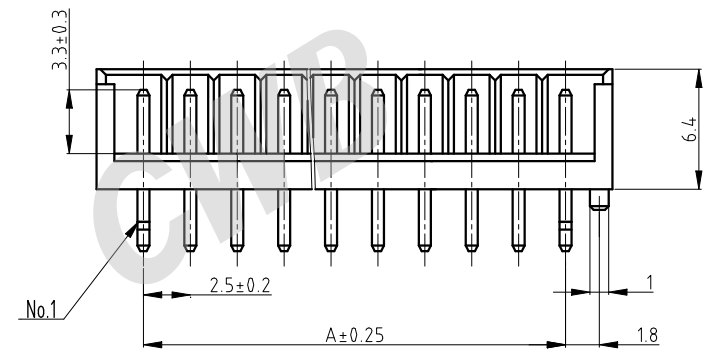


Notes:
 1. Material
 Wafer:
 Standards: PA66 UL94 V-0
 Others: PA66+GF, V-2
 Post: Brass, tin plated
 2. Matched housing: EH-nY
 3. Packaging: packing bag
 4. Compliant to the current RoHS

15	EH-15AWK	EH-15AW	35	40
14	EH-14AWK	EH-14AW	32.5	37.5
13	EH-13AWK	EH-13AW	30.0	35
12	EH-12AWK	EH-12AW	27.5	32.5
11	EH-11AWK	EH-11AW	25.0	30
10	EH-10AWK	EH-10AW	22.5	27.5
9	EH-9AWK	EH-9AW	20.0	25
8	EH-8AWK	EH-8AW	17.5	22.5
7	EH-7AWK	EH-7AW	15.0	20
6	EH-6AWK	EH-6AW	12.5	17.5
5	EH-5AWK	EH-5AW	10.0	15
4	EH-4AWK	EH-4AW	7.5	12.5
3	EH-3AWK	EH-3AW	5.0	10.0
2	EH-2AWK	EH-2AW	2.5	7.5
Ckts	Part No.	Previous part No.	Dimensions	
			A	B

CUSTOMER DRAWING						Title: 2.5mm pitch WTB header	
Drawn	Naihao.Wang	2022.3.11	Unit mm	Scale 2.5:1	Size A4	Edition B1	Part No.: EH-nAWK(**-*)
Checked	Qu.Wang	2022.3.11	Sheet No.		1 of 1		Previous part No.: EH-nAW
Approved	Dongxu.Liu	2022.3.11	CWB				Document No.: CP-DWG-01110
							Specification No.: PS4098

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					



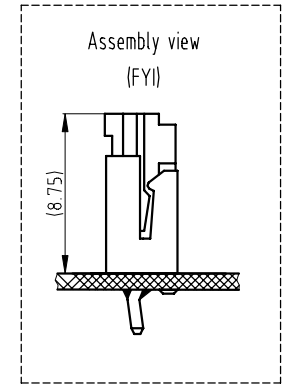
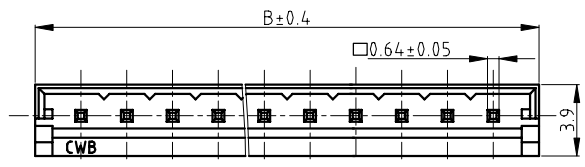
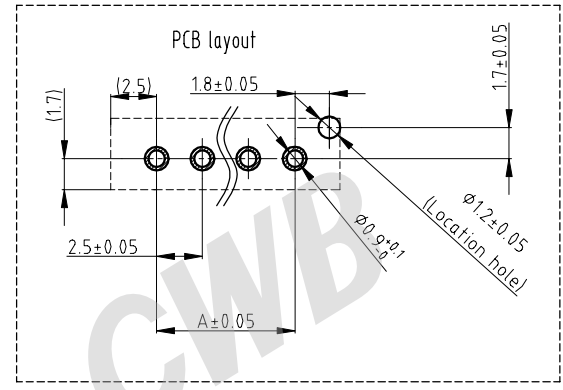
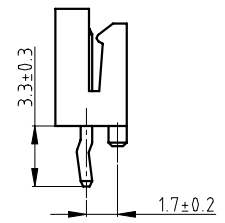
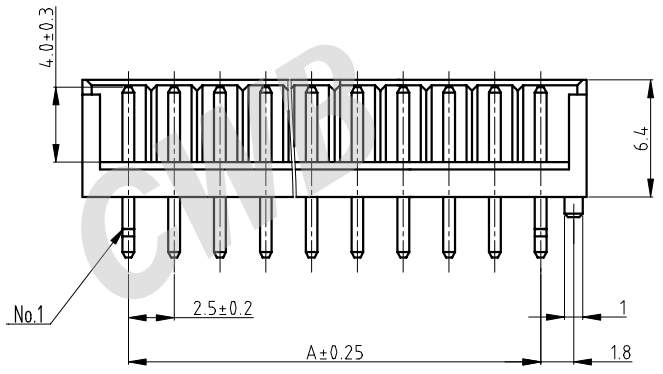
Notes:

- 1. Material
 - Wafer: Standards: PA66 UL94 V-0
 - Others: PA66+GF, V-2
 - Post: Brass, tin plated
- 2. Matched housing: EH-nY
- 3. Packaging: packing bag
- 4. Compliant to the current RoHS

10	EH-10ADK	EH-10AD	22.5	27.5
3	EH-3ADK	EH-3AD	5.0	10.0
Ckts	Part No.	Previous part No.	A	B
			Dimensions	

CUSTOMER DRAWING						Title: 2.5mm pitch WTB header	
Drawn	Naihao Wang	2022.3.11	Unit	Scale	Size	Edition	Part No.: EH-nADK(**-*)
Checked	Qu.Wang	2022.3.11	mm	2.5:1	A4	B1	Previous part No.: EH-nAD
Approved	Dongxu.Liu	2022.3.11	Sheet No.	1 of 1			Document No.: CP-DWG-01111
CWB							Specification No.: PS4098

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					



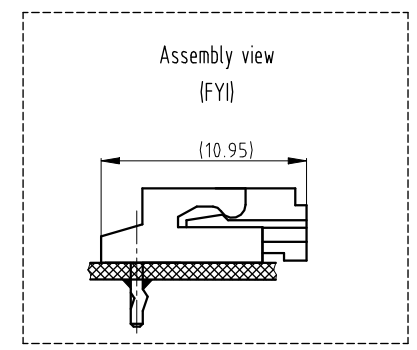
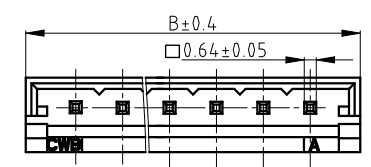
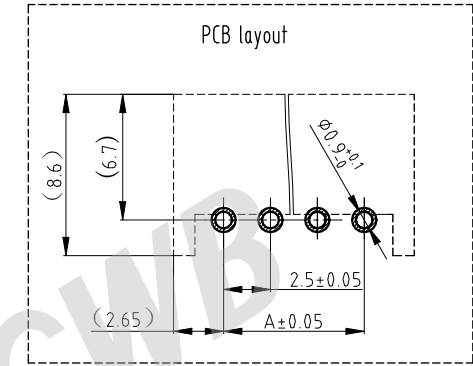
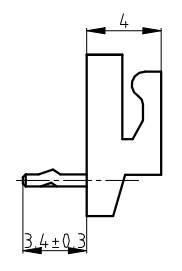
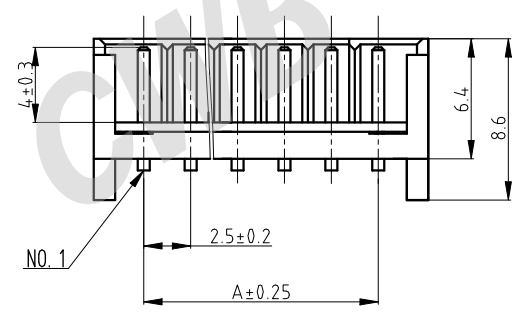
Notes:

- 1. Material
Wafer: Standards: PA66 UL94 V-0
Others: PA66+GF, V-2
Post: Brass, tin plated
- 2. Matched housing: EH-nY
- 3. Packaging: packing bag
- 4. Compliant to the current RoHS

10	EH-10ADK-1	EH-10AD4.0	22.5	27.5
3	EH-3ADK-1	EH-3ADK.0	5.0	10.0
Ckts	Part No.	Previous part No.	Dimensions A B	

CUSTOMER DRAWING						Title: 2.5mm pitch WTB header	
Drawn	Naihao.Wang	2022.3.11	Unit	Scale	Size	Edition	Part No.: EH-nADK-1(**-*)
Checked	Qu.Wang	2022.3.11	mm	2.5:1	A4	B1	Previous part No.: EH-nAD4.0
Approved	Dongxu.Liu	2022.3.11	Sheet No.	1 Of 1			Document No.: CP-DWG-01108
CWB 浙江台兴电子元件有限公司 CWB Electronics (Zhejiang) Co., Ltd.						Specification No.: PS4098	

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					

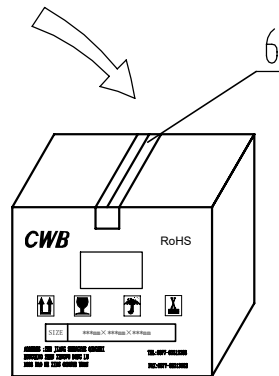
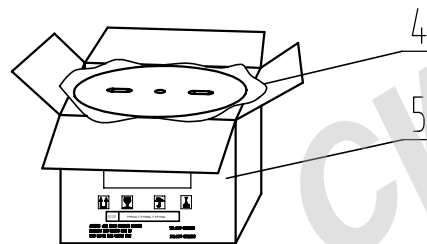
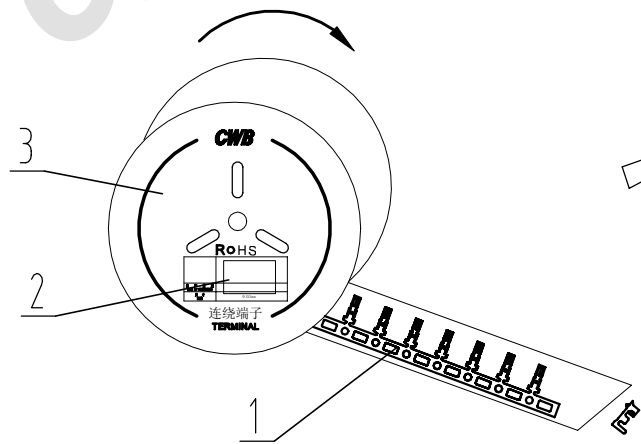


15	EH-15AWJK-1	EH-15AWJ4.0	35	40
14	EH-14AWJK-1	EH-14AWJ4.0	32.5	37.5
13	EH-13AWJK-1	EH-13AWJ4.0	30.0	35
12	EH-12AWJK-1	EH-12AWJ4.0	27.5	32.5
11	EH-11AWJK-1	EH-11AWJ4.0	25.0	30
10	EH-10AWJK-1	EH-10AWJ4.0	22.5	27.5
9	EH-9AWJK-1	EH-9AWJ4.0	20.0	25
8	EH-8AWJK-1	EH-8AWJ4.0	17.5	22.5
7	EH-7AWJK-1	EH-7AWJ4.0	15.0	20
6	EH-6AWJK-1	EH-6AWJ4.0	12.5	17.5
5	EH-5AWJK-1	EH-5AWJ4.0	10.0	15
4	EH-4AWJK-1	EH-4AWJ4.0	7.5	12.5
3	EH-3AWJK-1	EH-3AWJ4.0	5.0	10.0
2	EH-2AWJK-1	EH-2AWJ4.0	2.5	7.5
Ckts	Part No.	Previous part No.	A	B
			Dimensions	

- Notes:
- Material
Wafer:
Standards: PA66 UL94 V-0
Others: PA66+GF, V-2
Post: Brass, tin plated
 - Matched housing: EH-nY
 - Packaging: packing bag
 - Compliant to the current RoHS

CUSTOMER DRAWING						Title: 2.5mm pitch WTB header	
Drawn	Naihao Wang	2022.3.11	Unit	Scale	Size	Edition	Part No.: EH-nAWJK-1(*~*)
Checked	Qu.Wang	2022.3.11	mm	2.5:1	A4	B2	Previous part No.: EH-nAWJ4.0
Approved	Dongxu.Liu	2022.3.11	Sheet No.	1 of 1			Document No.: CP-DWG-01112
CWB							Specification No.: PS4098

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					



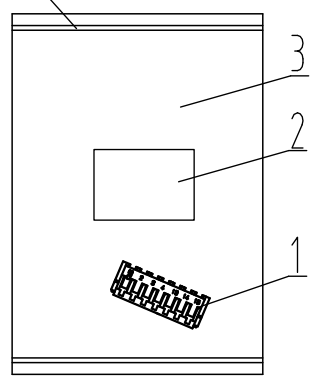
6	Gummed tape	
5	Packing box	
4	Packing bag	
3	Reel	
2	Certificate	
1	Part No.: CH-EH Previous part No.: EH	10KPcs/reel
	Part No.: CH-EH-1 Previous part No.: EH-1	10KPcs/reel
Number	Designation	Remarks

CUSTOMER DRAWING						Title: Packaging specification	
Drawn	Naihao.Wang	2022.3.10	Unit	Scale	Size	Edition	Part No.: CH-EH-*/ CH-EH-1-*
Checked	Qu.Wang	2022.3.10	mm	/	A4	B2	Previous part No.: EH / EH-1
Approved	Dongxu.Liu	2022.3.10	Sheet No.	1 Of 1			Document No.: BZ-DWG-00642
CWB						Specification No.: PS4098	

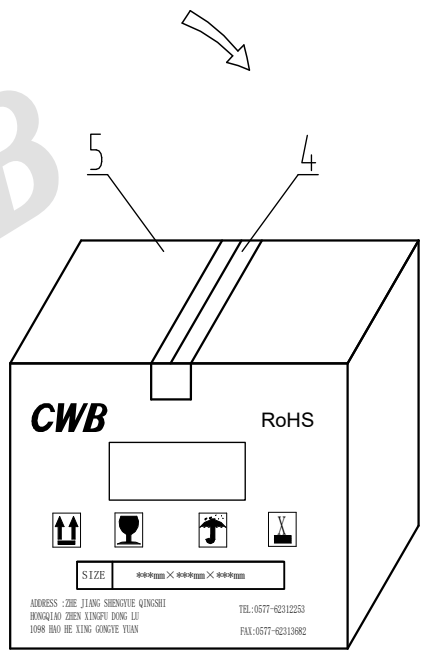
General tolerance	Dimension	Tolerance	Rev. No	Location	Description	Reviser	Date
	0~3	±0.13					
	3~18	±0.23					
	18~50	±0.35					
	≥50	±0.55					

Packing bag

Sealed



Packing box



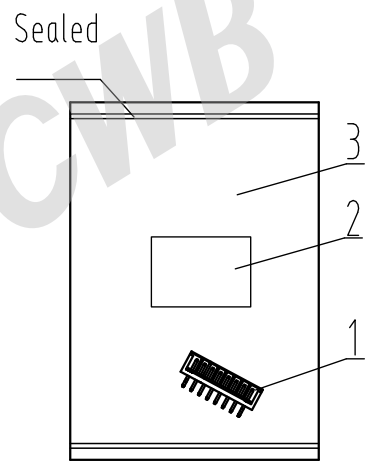
EH-15Y	500
EH-14Y	500
EH-13Y	500
EH-12Y	500
EH-11Y	1000
EH-10Y	1000
EH-9Y	1000
EH-8Y	1000
EH-7Y	1000
EH-6Y	1000
EH-5Y	1000
EH-4Y	1000
EH-3Y	1000
EH-2Y	1000

5	Packing box	EH-7Y	1000
4	Gummed tape	EH-6Y	1000
3	Packing bag	EH-5Y	1000
2	Certificate	EH-4Y	1000
1	EH series housing	EH-3Y	1000
		EH-2Y	1000
Number	Designation	Part No.	Pcs/bag

CUSTOMER DRAWING							Title: Packaging specification	
Drawn	Naihao.Wang	2022.3.11	Unit	Scale	Size	Edition	Part No.: EH-nY(**-*)	
Checked	Qu.Wang	2022.3.11	mm	/	A4	B2	Previous part No.: /	
Approved	Dongxu.Liu	2022.3.11	Sheet No.		1 of 1	Document No.: BZ-DWG-00643		
CWB							Specification No.: PS4098	

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						

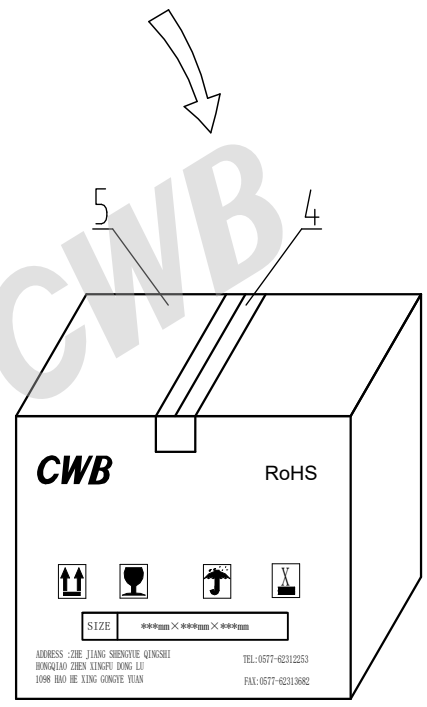
Packing bag



EH-3ADK-1	EH-3AD4.0	1000
EH-3ADK-1	EH-3AD4.0	1000
EH-10ADK	EH-10AD	1000
EH-3ADK	EH-3AD	1000

EH-15AWJK-1	EH-15AWJ4.0	500	EH-15AWK-1	EH-15AW4.0	500	EH-15AK-1	EH-15A4.0	1000
EH-14AWJK-1	EH-14AWJ4.0	500	EH-14AWK-1	EH-14AW4.0	500	EH-14AK-1	EH-14A4.0	1000
EH-13AWJK-1	EH-13AWJ4.0	500	EH-13AWK-1	EH-13AW4.0	500	EH-13AK-1	EH-13A4.0	1000
EH-12AWJK-1	EH-12AWJ4.0	500	EH-12AWK-1	EH-12AW4.0	500	EH-12AK-1	EH-12A4.0	1000
EH-11AWJK-1	EH-11AWJ4.0	1000	EH-11AWK-1	EH-11AW4.0	1000	EH-11AK-1	EH-11A4.0	1000
EH-10AWJK-1	EH-10AWJ4.0	1000	EH-10AWK-1	EH-10AW4.0	1000	EH-10AK-1	EH-10A4.0	1000
EH-9AWJK-1	EH-9AWJ4.0	1000	EH-9AWK-1	EH-9AW4.0	1000	EH-9AK-1	EH-9A4.0	1000
EH-8AWJK-1	EH-8AWJ4.0	1000	EH-8AWK-1	EH-8AW4.0	1000	EH-8AK-1	EH-8A4.0	1000
EH-7AWJK-1	EH-7AWJ4.0	1000	EH-7AWK-1	EH-7AW4.0	1000	EH-7AK-1	EH-7A4.0	1000
EH-6AWJK-1	EH-6AWJ4.0	1000	EH-6AWK-1	EH-6AW4.0	1000	EH-6AK-1	EH-6A4.0	1000
EH-5AWJK-1	EH-5AWJ4.0	1000	EH-5AWK-1	EH-5AW4.0	1000	EH-5AK-1	EH-5A4.0	1000
EH-4AWJK-1	EH-4AWJ4.0	1000	EH-4AWK-1	EH-4AW4.0	1000	EH-4AK-1	EH-4A4.0	1000
EH-3AWJK-1	EH-3AWJ4.0	1000	EH-3AWK-1	EH-3AW4.0	1000	EH-3AK-1	EH-3A4.0	1000
EH-2AWJK-1	EH-2AWJ4.0	1000	EH-2AWK-1	EH-2AW4.0	1000	EH-2AK-1	EH-2A4.0	1000
EH-15AWJK	EH-15AWJ	500	EH-15AWK	EH-15AW	500	EH-15AK	EH-15A	1000
EH-14AWJK	EH-14AWJ	500	EH-14AWK	EH-14AW	500	EH-14AK	EH-14A	1000
EH-13AWJK	EH-13AWJ	500	EH-13AWK	EH-13AW	500	EH-13AK	EH-13A	1000
EH-12AWJK	EH-12AWJ	500	EH-12AWK	EH-12AW	500	EH-12AK	EH-12A	1000
EH-11AWJK	EH-11AWJ	1000	EH-11AWK	EH-11AW	1000	EH-11AK	EH-11A	1000
EH-10AWJK	EH-10AWJ	1000	EH-10AWK	EH-10AW	1000	EH-10AK	EH-10A	1000
EH-9AWJK	EH-9AWJ	1000	EH-9AWK	EH-9AW	1000	EH-9AK	EH-9A	1000
EH-8AWJK	EH-8AWJ	1000	EH-8AWK	EH-8AW	1000	EH-8AK	EH-8A	1000
EH-7AWJK	EH-7AWJ	1000	EH-7AWK	EH-7AW	1000	EH-7AK	EH-7A	1000
EH-6AWJK	EH-6AWJ	1000	EH-6AWK	EH-6AW	1000	EH-6AK	EH-6A	1000
EH-5AWJK	EH-5AWJ	1000	EH-5AWK	EH-5AW	1000	EH-5AK	EH-5A	1000
EH-4AWJK	EH-4AWJ	1000	EH-4AWK	EH-4AW	1000	EH-4AK	EH-4A	1000
EH-3AWJK	EH-3AWJ	1000	EH-3AWK	EH-3AW	1000	EH-3AK	EH-3A	1000
EH-2AWJK	EH-2AWJ	1000	EH-2AWK	EH-2AW	1000	EH-2AK	EH-2A	1000
Part No.	Previous part No	Pcs/bag	Part No.	Previous part No.	Pcs/bag	Part No.	Previous part No.	Pcs/bag

Packing box



5	Packing box
4	Gummed tape
3	Packing bag
2	Certificate
1	EH series header
Number	Designation

CUSTOMER DRAWING

Drawn	Naihao.Wang	2022.3.11	Unit	Scale	Size	Edition
Checked	Qu.Wang	2022.3.11	mm	/	A4	B1
Approved	Dongxu.Liu	2022.3.11	Sheet No.	1 Of 1		

CWB

Title:	Packaging specification
Part No.:	EH series header
Previous part No.:	/
Document No.:	BZ-DWG-00644
Specification No.:	PS4098

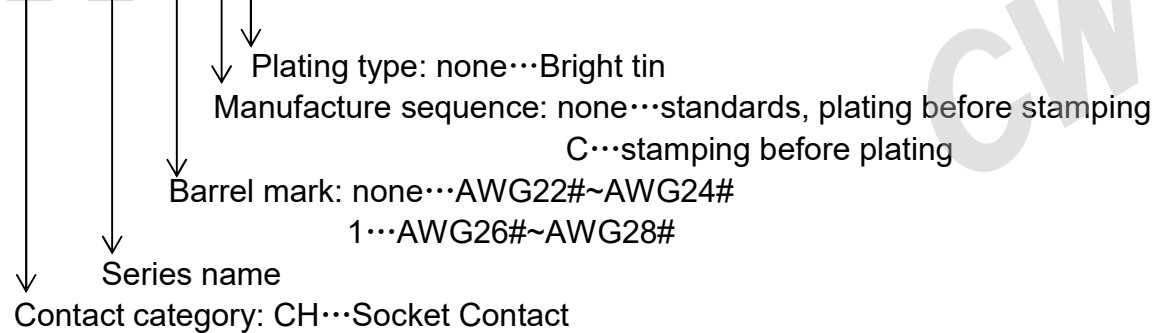
EH 系列命名规则

EH series naming convention

1. Contact

CH-EH-***

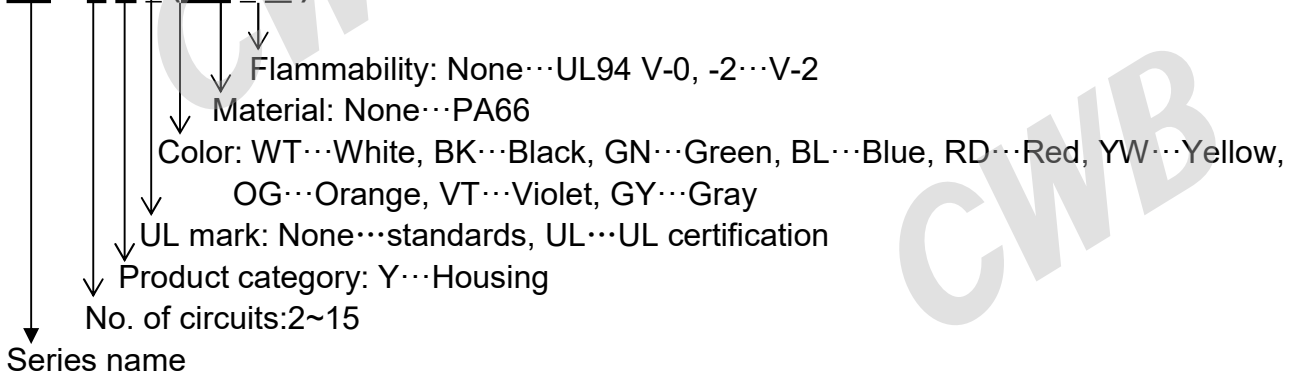
CH - EH - * - * *



2. Housing

EH-nY (**-*)

EH - n Y * (WT * - *)

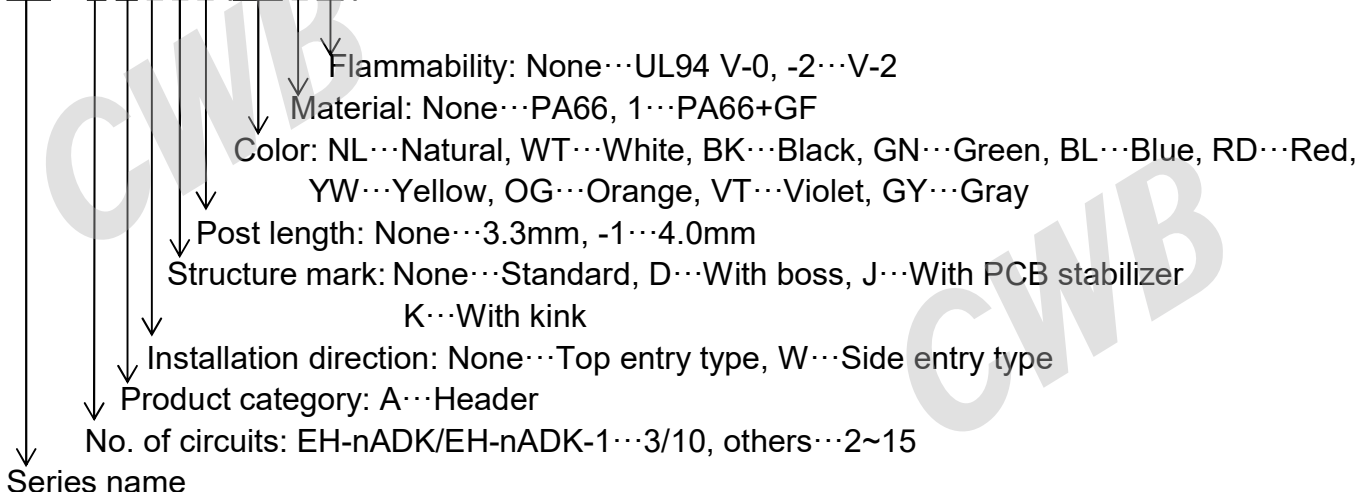


3. Header

EH-nAK(**-*), EH-nAWK(**-*), EH-nAWJK(**-*), EH-nADK(**-*)

EH-nAK -1(**-*), EH-nAWK-1 (**-*), EH-nAWJK-1 (**-*), EH-nADK-1(**-*)

EH - n A * * * (WT * - *)



4. Header which missing circuits

EH-nAKmZ(a.b...)(**-*), EH-nAWKmZ(a.b...)(**-*), EH-nAWJKmZ(a.b...)(**-*),
 EH-nADKmZ(a.b...)(**-*),
 EH-nAKmZ(a.b...)-1(**-*), EH-nAWKmZ(a.b...)-1(**-*), EH-nAWJKmZ(a.b...)-1(**-*),
 EH-nADKmZ(a.b...)-1(**-*)

...n A ... mZ (a.b...)

Missing circuit number: "a.b..." ...The positive integer represents the position of the missing circuits

No. of actual circuits: mZ ("m" is positive integer)

Product category: A...Header

No. of circuits: EH-nADK/EH-nADK-1...3/10 , others...2~15

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