

标题：VH 系列连接器

Title: VH Connector

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CWB 浙江合兴电子元件有限公司 CWB Electronics (Zhejiang) Co., Ltd.	制定 Edit: <u>路欢 2021.8.26</u>	产品名称 Product name: <u>VH 系列</u>
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	批准 Approval: <u>刘冬旭 2021.8.26</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	/	First release	路欢 2021.08.26
1	/	Update specifications and part no according to new naming specifications	尹恒 2022.02.24

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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 3.96 阴型 & 阳型电子连接器, 产品名称: VH.

This product specification covers the requirement for Cable to Board 3.96mm pitch Receptacle & Plug connector, which is designed and manufactured by CWB Electronics(ZheJiang) Co.,LTD. P/N: VH.

3. 产品描述 Product description

TJC39614 系列产品为家电连接器产品, 产品部件组成如下:

The TJC39614 series connectors designed for home appliances connection. Part checklist as following form:

Part name	Part No.	Previous part No.	Description
插簧 Contact	CH-VH-**	CH-VH	AWG22~AWG20
插簧 Contact	CH-VHB-**	CH-VH-2	AWG22~AWG20
插簧 Contact	CH-VH-3-**	CH-VH-3	AWG18, RV-90 0.75mm ²
插簧 Contact	CH-VH-4-**	CH-VH-4	AWG24~AWG22
孔座(带锁扣) Housing (W/Lock)	VH-nY *(***)	VH-nY	PA66 UL94 V-0,PA66 UL94 V-2 , PA66 UL94 V-0 GWT 750°C
孔座(含锁紧片保持结构, 带锁扣) Housing(W/Retainer, W/Lock)	VHB-nY *(***)	TJC39614-nY	PA66 UL94 V-0 GWT 750°C
孔座(含锁紧片保持结构, 带锁扣) Housing(W/Retainer, W/Lock)	VHB-nY-1 *(***)	TJC39614-nY-1	PA66 UL94 V-0 GWT 750°C
锁紧片 Retainer	VHB-nYS *(***)	TJC39614-nYS	PA66 UL94 V-0 GWT 750°C
阳连接器(立式, 直插) Header (V, DIP)	VH-nA-X *(***)	VH-nA-X	Wafer: PA66 UL94 V-0,PA66 UL94 V-2 , PA66 UL94 V-0 GWT 750°C, PA66+GF V-2 Post: Brass, tin plated
阳连接器(立式, 直插) Header (V, DIP)	VH-nA *(***)	VH-nA	Wafer: PA66 UL94 V-0,PA66 UL94 V-2 , PA66 UL94 V-0 GWT 750°C, PA66+GF V-2 Post: Brass, tin plated
阳连接器(卧式, 直插) Header (H, DIP)	VH-nAW-X *(***)	VH-nAW-X	Wafer: PA66 UL94 V-0,PA66 UL94 V-2 , PA66 UL94 V-0 GWT 750°C, PA66+GF V-2 Post: Brass, tin plated
阳连接器(立式, 直插, 含定位柱) Header (V, DIP, W/Boss)	VH-nAD *(***)	VH-nAD	Wafer: PA66 UL94 V-2 , PA66 UL94 V-0 GWT 750°C Post: Brass, tin plated
阳连接器(卧式, 直插, 带挡板) Header (H, DIP, W/PCB stabilizer)	VH-nAWJ *(***)	VH-nAWJ	Wafer: PA66 UL94 V-0 GWT 750°C Post: Brass, tin plated
阳连接器(立式, 直插, 含定位柱) Header (V, DIP, W/Boss)	VHB-nADG *(***)	TJC39614-nADG	Wafer: PA66 UL94 V-0 GWT 750°C Post: Brass, tin plated

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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]	AWG18# 7A Max.	AWG20# 4A Max.	AWG22# 3A Max.	AWG24# 2A Max.	
适用 PCB 板 Applicable PCB	Board thickness: ϕ 1.6 mm Hole diameter: ϕ 1.65mm ~ ϕ 1.75mm				
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-VH	Wire size: AWG22~AWG20 (0.33mm \pm 0.52mm \pm)			
	CH- VHB	Insulation diameter: ϕ 1.6mm- ϕ 2.5mm			
	CH- VH-3	Wire size: AWG18(0.82mm \pm) RV-90 0.75mm ² Insulation diameter: ϕ 2.0mm- ϕ 2.5mm			
	CH- VH-4	Wire size: AWG24~AWG22 (0.20mm \pm 0.33mm \pm) Insulation diameter: ϕ 1.45mm- ϕ 2.05mm			
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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 5095.1 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孔座和拔出孔座的力, 测试速度不大于25 mm/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 (Insertion force) Max.	固定力 (Retention force) Min.
			14.7N	29.4N
6.1.3	插簧与插针的插拔力 Insertion and withdrawal force for pin in the contact	固定连接器或/测力计, 在端子轴线方向将插针插入和拔出插簧, 测试速度不大于25 mm/min。 Insert the pin contact into and pull out the socket contact in the direction of the terminal axis (Testing speed: <25 mm/min.) GB/T 5095.8 Method 16e / EIA-364-13B	插入力 (Insertion force) Max.	拔出力 (Withdrawal force) Min.
			9.8N	0.2N
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	20N 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/T 5095.8 Method 16d / EIA-364-08B	AWG 24: 30N Min. AWG 22: 45N Min. AWG 20: 65N Min. AWG 18: 80N Min. RV-90 0.75mm ² : 75N Min.	
6.1.6	锁扣强度 Lock strength	固定连接器和测力计, 在连接器轴线方向将配合后的连接器拔出, 速度不大于25 mm/min., 测量时连接器应无端子或端子不影响锁扣强度的测量结果 Apply axial withdraw force on the connector which without contact or the contacts shall not affect lock strength at a rate less than 25 mm/min. GB/T 5095.8 Method 15a / EIA-364-29B	2pin: 14.7 N Min. 3pin~15pin: 49 N Min.	

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6.1.7	成品插入力与拔出力（去锁扣） Insertion force and withdrawal force (without lock)	<p>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。</p> <p>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.)</p> <p>GB/T 5095.7 Method 13b / EIA-364-13B</p>	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 50st.
			2P	19.6N	3.9N	2.0N
			3P	29.4N	5.9N	2.9N
			4P	39.2N	7.8N	3.9N
			5P	44.1N	9.8N	4.9N
			6P	53.9N	12.7N	6.9N
			7P	58.8N	15.7N	8.8N
			8P	68.6N	18.6N	10.8N
			9P	73.5N	21.6N	12.7N
			10P	78.4N	24.5N	14.7N
			11P	88.2N	27.5N	16.6N
			12P	93.1N	30.4N	18.6N
			13P	102.9N	33.3N	20.5N
6.1.8	机械振动 Vibration	<p>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</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: 1 min.</p> <p>Amplitude: 1.52mm.</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>			
6.1.9	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100mA电流</p> <p>冲击强度：490m/s²</p> <p>持续时间：11ms</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: 490m/s²</p> <p>Duration: 11ms</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>			
6.1.10	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>

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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) 800 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 2000V AC (有效值), 漏电流 1mA 的电压作用, 时间 1min. Apply a voltage of 2000V 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	Δ30°C Max.

6.3 环境性能 Environmental

序号 No.	项目 Item	测试条件 Test condition	规格 Requirement						
6.3.1	耐高温 Heat resistance	连接器配合后, 于 (105±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 (105±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: 1500V Min. Withstand voltage: 1500V Min.						
6.3.2	耐低温 Cold resistance	连接器配合后, 于 (-40±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 (-40±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: 1500V Min. Withstand voltage: 1500V 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: 1500V Min. Withstand voltage: 1500V 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>0.5h</td> </tr> <tr> <td>2 Room Temp.</td> <td>5 minutes Max.</td> </tr> </tbody> </table>	Temperature °C	Duration	1 -55±2	0.5h	2 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: 1500V Min. Withstand voltage: 1500V Min.
Temperature °C	Duration								
1 -55±2	0.5h								
2 Room Temp.	5 minutes Max.								

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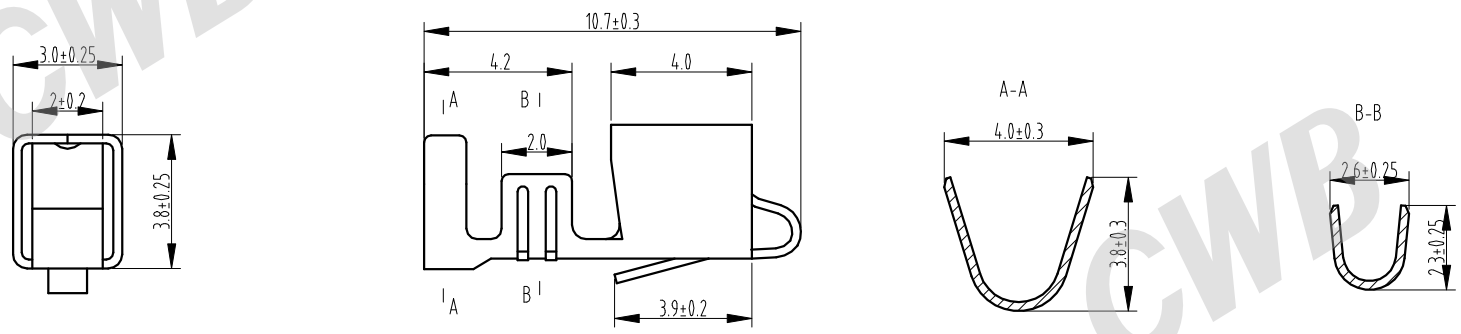
		3 +85±2 0.5h 4 Room Temp. 5 minutes Max. Step 1 to 4 is one cycle,25 cycles shall be tested, recovery time (1~2) hours GB/T 5095.6 method 11d / EIA-364-32C	
6.3.5	盐雾 Salt spray	把试验样品从试验箱顶悬挂下来, 采用浓度为 (5±1) % (质量百分比) 的氯化钠溶液, 在 (35±2) °C 温度下连续雾化 48 小时, 试验后用流动的蒸馏水轻轻洗去表面沉积物。在常温常湿条件下恢复 (1~2) 小时 48 hours spray, 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.
6.3.6	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
6.3.7	硫化氢气体测试 (H ₂ S gas test)	连接器配合后, 在温度 (40±2) °C、湿度 (80±5) %、H ₂ S 气体浓度为 (3±1) ppm 的环境中放置 96 小时 Mated connectors exposed to the condition of temperature (40±2)°C, humidity (80±5)%, H ₂ S gas concentration of (3±1)ppm for 96 hours	接触电阻: 20mΩ Max. Contact resistance: 20mΩ Max.
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 EIA-364-52	上锡率: ≥95% Solder coverage: ≥95%
6.3.9	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) °C; 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) °C, 时间(1~2) seconds 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 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)
6.3.10	灼热丝 Glow wire (只针对 GWT750°C 产品 Only for GWT750°C products)	750°C灼热丝顶部接触试验样品 接触时间: (30±1)秒 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°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	1. 试验样品燃烧时间不超过2秒。 The time that mated connector burns is not more than 2s. 2. 灼热丝离开后的30秒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.

产品名称 Product name:	VH 系列	编号 Document No.	PS4101	版本号 Version No.	1
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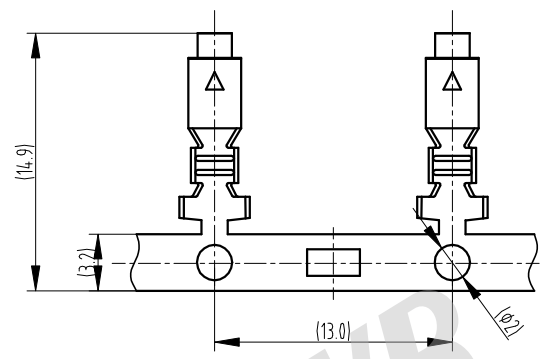
7. 测试分组 Test sequences (Samples: 5PCS)

测试组 Group number	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S
外观 Appearance	1	1	1	1	1	1,5	1,5	1,7	1	1,7	1,5	1,7	1,7	1,5	1,3	1,5	1,3	1,3	1,3
端子的插入力与固定力 Insertion force and retention force for contact	2																		
针的固定力 Post retention force		2																	
压着部位抗张强度 Crimp tensile strength			2																
锁扣强度 Lock 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							3												
机械寿命 Durability								5											
接触电阻 Contact resistance						2,4	2,4	2,6		2,6	2,4	2,4	2,4	2,4		2,4			
绝缘电阻 Insulation resistance								3		4		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					
工业气体(氨气) Industrial gas(Ammonia)(NH ₃)															2				
硫化氢气体测试 (H ₂ S gas test)																3			
可焊性 Solderability																	2		
耐焊接热 Resistance to soldering heat																		2	
灼热丝 Glow wire																			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					



Contact view

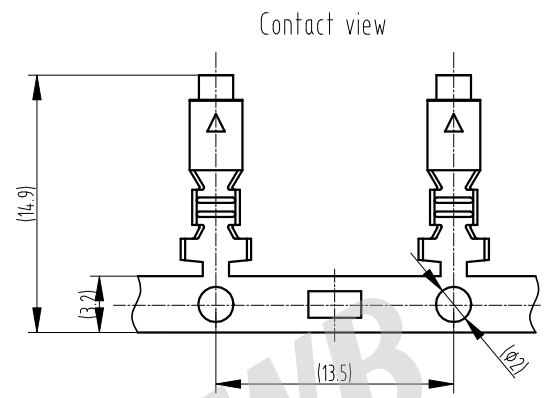
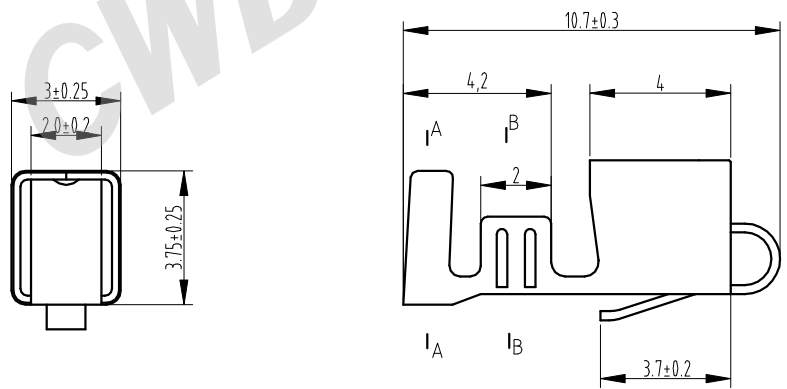


Notes:

- 1.Material: phosphor bronze;thickness:0.25mm
- 2.Surface finish: tin plated
- 3.Matched housing: VH-nY/VHB-nY
- 4.Applicable wires: AWG22~AWG20
- 5.Compliant to the current RoHS

CUSTOMER DRAWING						Title:	
Drawn	Heng.Yin	2022.03.09	Unit	Scale	Size	Edition	Part No.:
Checked	Guoying.wang	2022.03.09	mm	5:1	A4	B1	CH-VH-**
Approved	Dongxu.Liu	2022.03.09	Sheet No.	1 Of 1			Previous part No.: VH
CWB 浙江合兴电子元件有限公司 CWB Electronics (Zhejiang) Co., Ltd.							Document No.: CP-DWG-01152
							Specification No.: PS4101

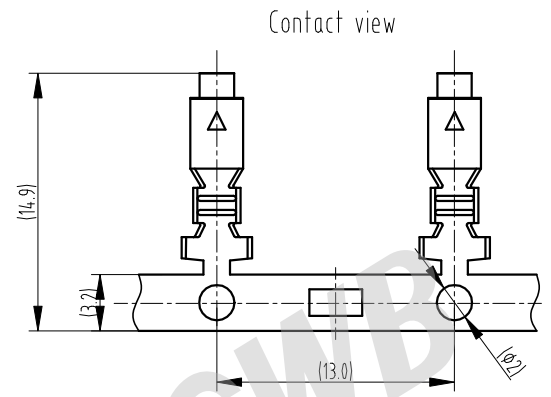
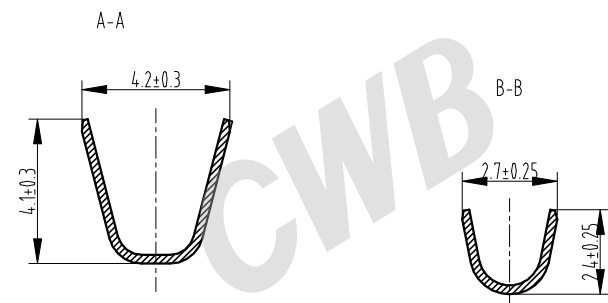
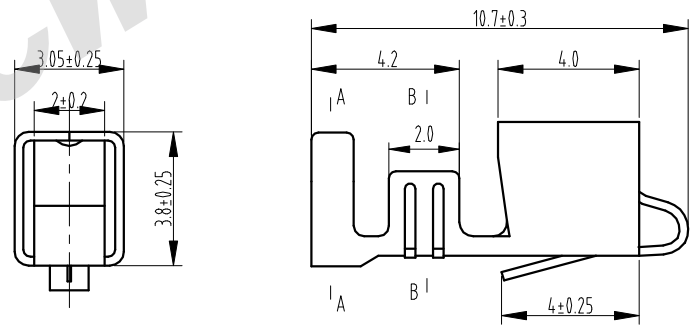
General Tolerance	Dimension	Tolerance	Rev. No	Location	Description	Reviser	Date
	0~3	±0.13					
	3~18	±0.23					
	18~50	±0.35					
	≥50	±0.55					



- Notes:
1. Material: phosphor bronze; thickness: 0.25mm
 2. Surface finish: tin plated
 3. Matched housing: VH-nY/VHB-nY
 4. Applicable wires: AWG22~AWG20
 5. Compliant to the current RoHS

CUSTOMER DRAWING						Title: 3.96mm pitch WTB contact	
Drawn	Heng.Yin 2022.03.09	Unit	Scale	Size	Edition	Part No.: CH-VHB-**	
Checked	Guoying.wang 2022.03.09	mm	5:1	A4	B1	Previous part No.: VH-2	
		Sheet No.		1 Of 1		Document No.: CP-DWG-01153	
Approved	Dongxu.Liu 2022.03.09	CWB 浙江合兴电子元件有限公司 CWB Electronics (Zhejiang) Co., Ltd.				Specification No.: PS4101	

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					

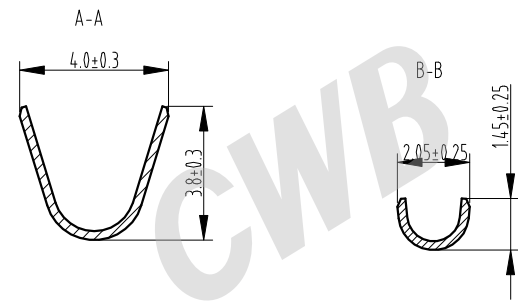
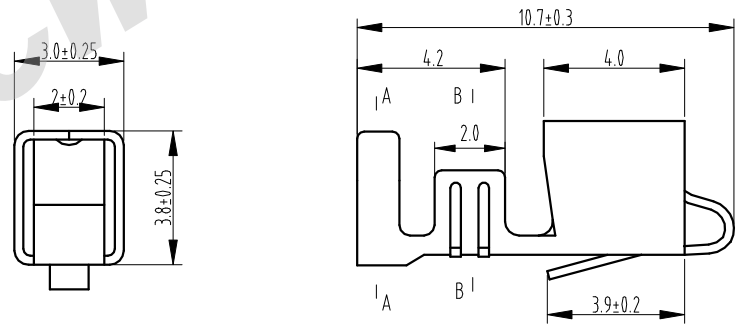


Notes:

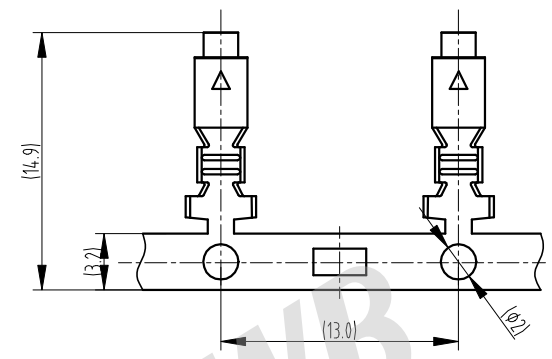
1. Material: phosphor bronze; thickness: 0.25mm
2. Surface finish: tin plated
3. Matched housing: VH-nY/VHB-nY
4. Applicable wires: AWG18, RV-90 0.75mm²
5. Compliant to the current RoHS

CUSTOMER DRAWING						Title: 3.96mm pitch WTB contact	
Drawn	Heng.Yin	2022.03.09	Unit	Scale	Size	Edition	Part No.: CH-VH-3-**
Checked	Guoying.wang	2022.03.09	mm	5:1	A4	B1	Previous part No.: VH-3
			Sheet No.		1 Of 1		Document No.: CP-DWG-01154
Approved	Dongxu.Liu	2022.03.09	CWB 浙江合兴电子元件有限公司 CWB Electronics (Zhejiang) Co., Ltd.			Specification No.: PS4101	

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



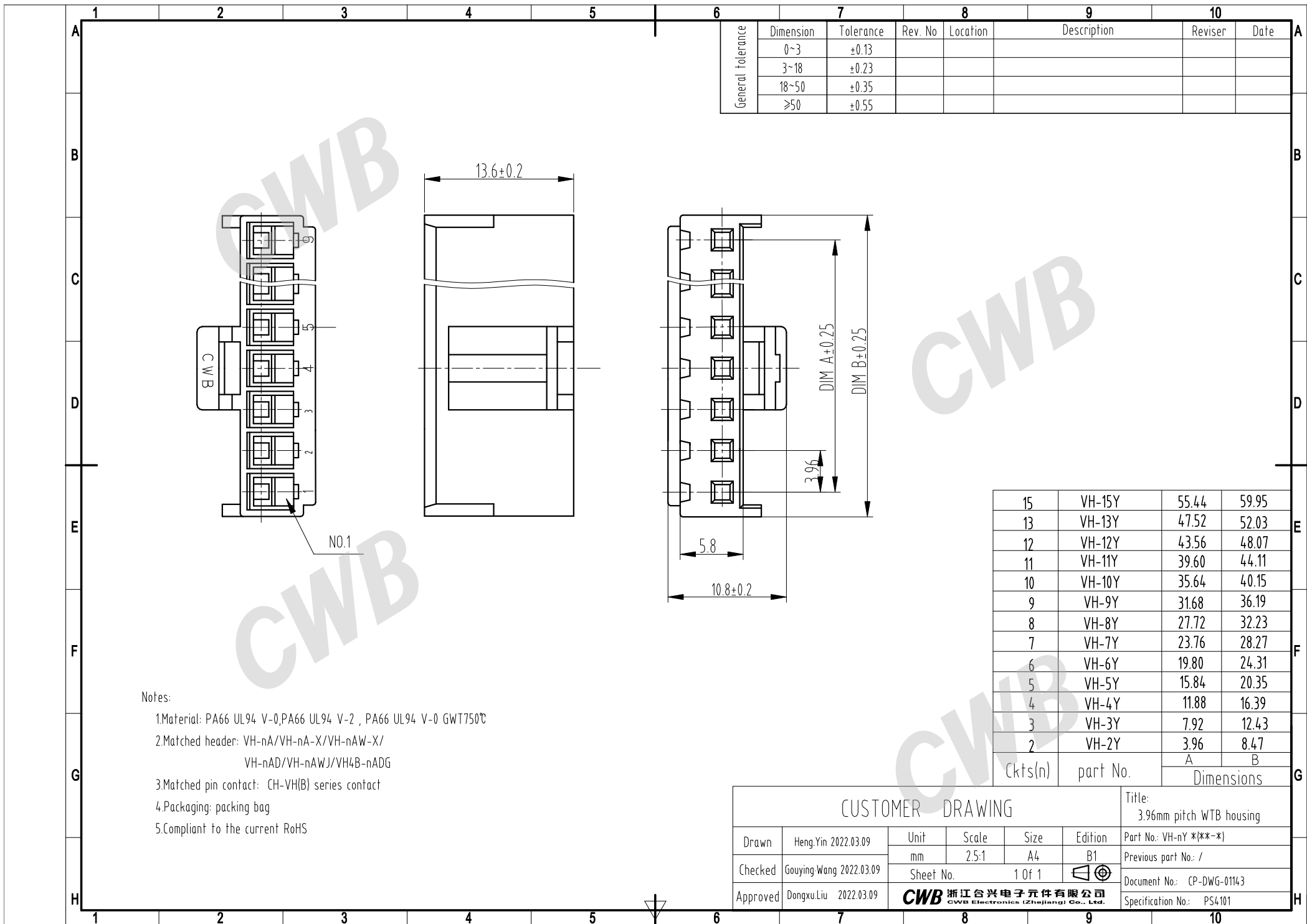
Contact view



Notes:

- 1.Material: phosphor bronze;thickness:0.25mm
- 2.Surface finish: tin plated
- 3.Matched housing: VH-nY/VHB-nY
- 4.Applicable wires:AWG24~AWG22
- 5.Compliant to the current RoHS

CUSTOMER DRAWING						Title:	
Drawn	Heng.Yin	2022.03.09	Unit	Scale	Size	Edition	Part No.:
Checked	Guoying.wang	2022.03.09	mm	5:1	A4	B1	CH-VH-4-**
Approved	Dongxu.Liu	2022.03.09	Sheet No.	1 Of 1			Previous part No.:
CWB 浙江合兴电子元件有限公司 CWB Electronics (Zhejiang) Co., Ltd.						Document No.:	
						CP-DWG-01328	
						Specification No.:	
						PS4101	



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					

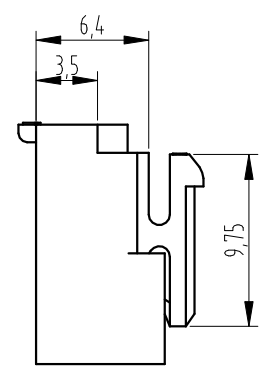
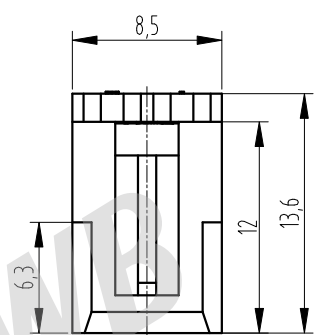
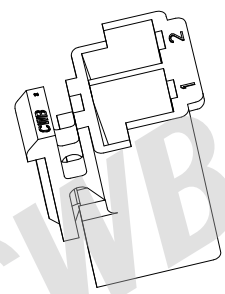
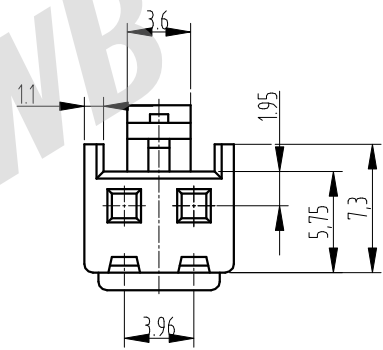
Notes:

- 1.Material: PA66 UL94 V-0,PA66 UL94 V-2 , PA66 UL94 V-0 GWT750℃
- 2.Matched header: VH-nA/VH-nA-X/VH-nAW-X/
VH-nAD/VH-nAWJ/VH4B-nADG
- 3.Matched pin contact: CH-VH(B) series contact
- 4.Packaging: packing bag
- 5.Compliant to the current RoHS

15	VH-15Y	55.44	59.95
13	VH-13Y	47.52	52.03
12	VH-12Y	43.56	48.07
11	VH-11Y	39.60	44.11
10	VH-10Y	35.64	40.15
9	VH-9Y	31.68	36.19
8	VH-8Y	27.72	32.23
7	VH-7Y	23.76	28.27
6	VH-6Y	19.80	24.31
5	VH-5Y	15.84	20.35
4	VH-4Y	11.88	16.39
3	VH-3Y	7.92	12.43
2	VH-2Y	3.96	8.47
Ckts(n)	part No.	A	B
		Dimensions	

CUSTOMER DRAWING						Title: 3.96mm pitch WTB housing	
Drawn	Heng.Yin 2022.03.09	Unit	Scale	Size	Edition	Part No.: VH-nY *(**~*)	
Checked	Gouying.Wang 2022.03.09	mm	2.5:1	A4	B1	Previous part No.: /	
		Sheet No.		1 Of 1		Document No.: CP-DWG-01143	
Approved	Dongxu.Liu 2022.03.09	CWB 浙江合兴电子元件有限公司 CWB Electronics (Zhejiang) Co., Ltd.				Specification No.: PS4101	

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					

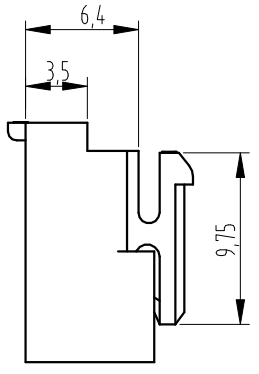
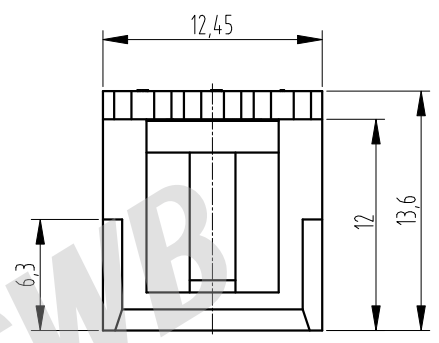
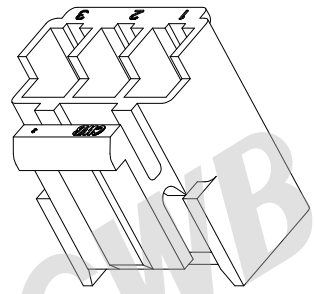
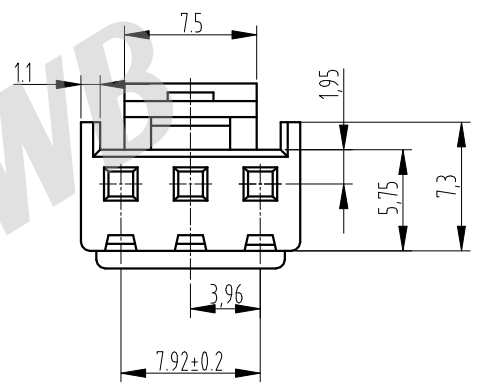


Notes:

- 1.Material: PA66 UL94 V-0 GWT750℃
- 2.Matched header: VH-2A/VH-2A-X/VH-2AW-X/
VH-2AD/VH-2AWJ
- 3.Matched pin contact: CH-VH(B) series contact
- 4.Packaging: packing bag
- 5.Compliant to the current RoHS

CUSTOMER DRAWING						Title: 3.96mm pitch WTB housing	
Drawn	Heng.Yin 2022.03.09	Unit	Scale	Size	Edition	Part No.: VHB-2Y *(**-*)	
Checked	Gouying.Wang 2022.03.09	mm	2.5:1	A4	B1	Previous part No.: TJC39614-2Y	
		Sheet No.		1 Of 1		Document No.: CP-DWG-01144	
Approved	Dongxu.Liu 2022.03.09	CWB 浙江合兴电子元件有限公司 CWB Electronics (Zhejiang) Co., Ltd.				Specification No.: PS4101	

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					

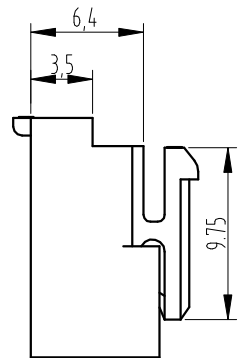
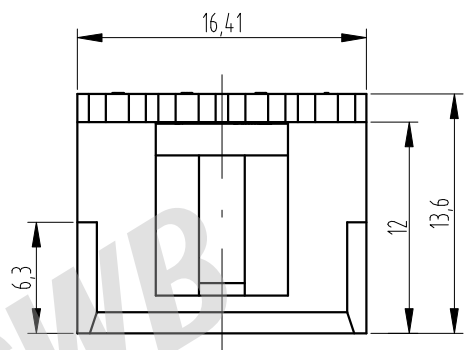
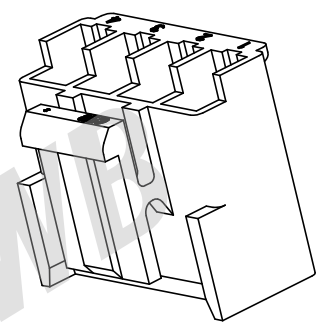
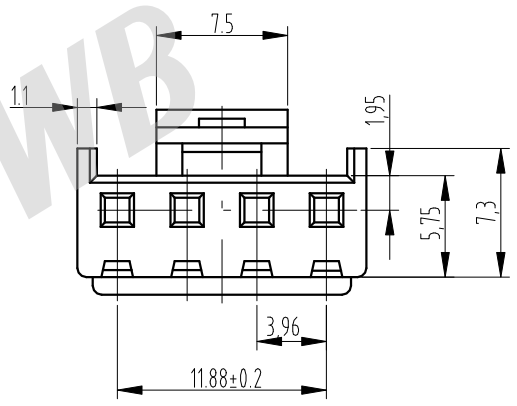


Notes:

- 1.Material: PA66 UL94 V-0 GWT750℃
- 2.Matched header: VH-3A/VH-3A-X/VH-3AW-X/
VH-3AD/VH-3AWJ/VHB-3ADG
- 3.Matched pin contact: CH-VH(B) series contact
- 4.Packaging: packing bag
- 5.Compliant to the current RoHS

CUSTOMER DRAWING						Title: 3.96mm pitch WTB housing	
Drawn	Heng.Yin 2022.03.09	Unit	Scale	Size	Edition	Part No.: VHB-3Y *(**-*)	
Checked	Gouying.Wang 2022.03.09	mm	2.5:1	A4	B1	Previous part No.: TJC39614-3Y	
		Sheet No.		1 Of 1		Document No.: CP-DWG-01145	
Approved	Dongxu.Liu 2022.03.09	CWB 浙江合兴电子元件有限公司 CWB Electronics (Zhejiang) Co., Ltd.				Specification No.: PS4101	

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					

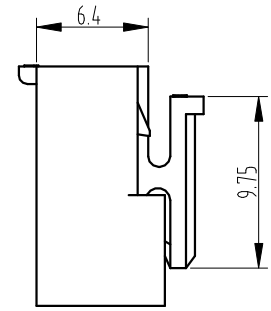
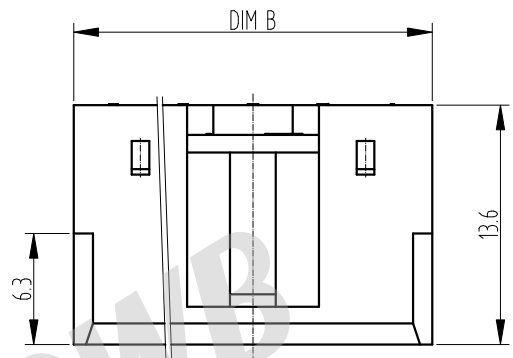
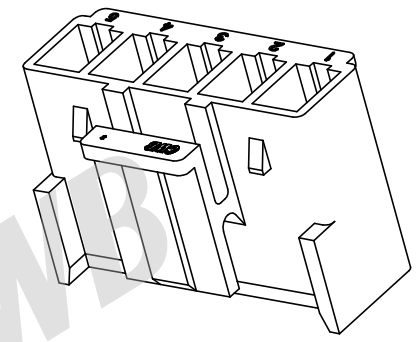
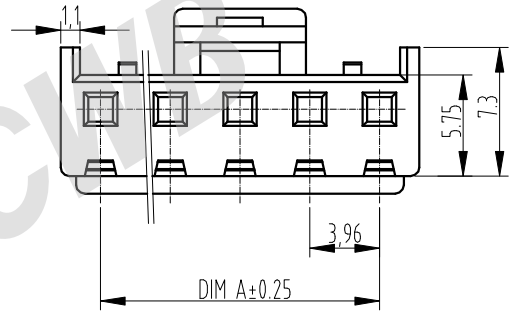


Notes:

- 1.Material: PA66 UL94 V-0 GWT750℃
- 2.Matched header: VH-4A/VH-4A-X/VH-4AW-X/
VH-4AD/VH-4AWJ
- 3.Matched pin contact: CH-VH(B) series contact
- 4.Packaging: packing bag
- 5.Compliant to the current RoHS

CUSTOMER DRAWING						Title: 3.96mm pitch WTB housing	
Drawn	Heng.Yin 2022.03.09	Unit	Scale	Size	Edition	Part No.: VHB-4Y *(**-*)	
Checked	Gouying.Wang 2022.03.09	mm	2.5:1	A4	B1	Previous part No.: TJC39614-4Y	
		Sheet No.		1 Of 1		Document No.: CP-DWG-01146	
Approved	Dongxu.Liu 2022.03.09	CWB 浙江合兴电子元件有限公司 CWB Electronics (Zhejiang) Co., Ltd.				Specification No.: PS4101	

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					



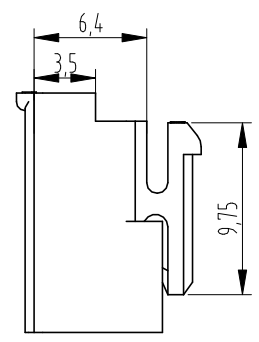
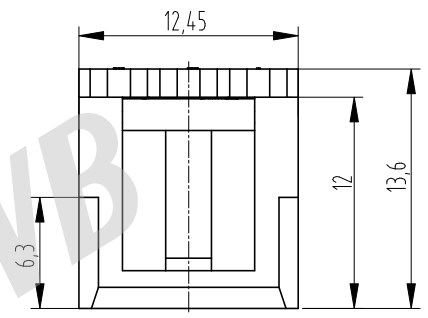
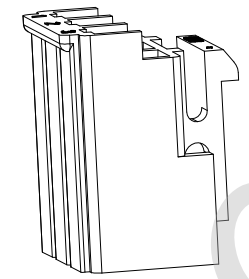
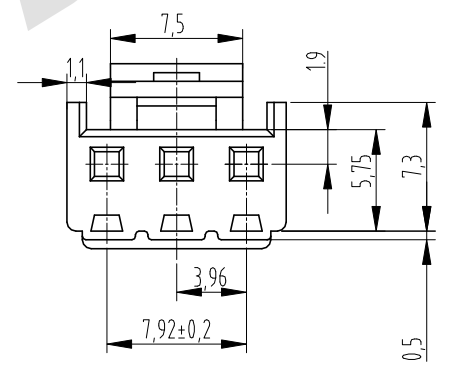
Notes:

- 1.Material: PA66 UL94 V-0 GWT750℃
- 2.Matched header: VH-nA/VH-nA-X/VH-nAW-X/
VH-nAD/VH-nAWJ/VHB-nADG
- 3.Matched pin contact: CH-VH(B) series contact
- 4.Packaging: packing bag
- 5.Compliant to the current RoHS

7	VHB-7Y	TJC39614-7Y	23.76	28.29
6	VHB-6Y	TJC39614-6Y	19.8	24.33
5	VHB-5Y	TJC39614-5Y	15.84	20.37
Ckts(n)	Part No.	Previous part No	DIM A	DIM B
			Dimensions	

CUSTOMER DRAWING						Title: 3.96mm pitch WTB housing	
Drawn	Heng.Yin 2022.03.09	Unit	Scale	Size	Edition	Part No.: VHB-nY *(**-*)	
Checked	Gouying.Wang 2022.03.09	mm	2.5:1	A4	B1	Previous part No.: TJC39614-nY	
Approved	Dongxu.Liu 2022.03.09	Sheet No.	1 Of 1		Document No.: CP-DWG-01147		Specification No.: PS4101
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	Date
	0~3	±0.13					
	3~18	±0.23					
	18~50	±0.35					
	≥50	±0.55					

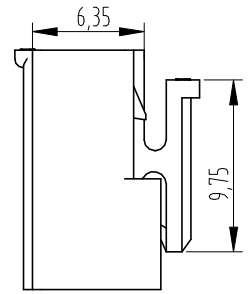
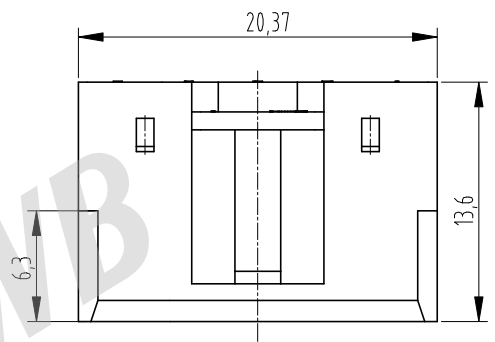
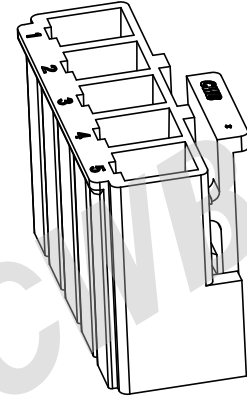
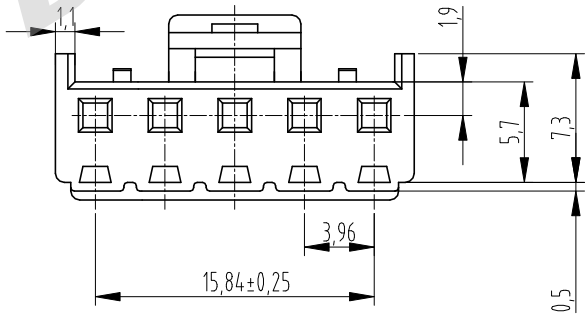


Notes:

- 1.Material: PA66 UL94V-0 GWT750℃
- 2.Matched header: VH-3A/VH-3A-X/VH-3AW-X/
VH-3AD/VH-3AWJ/VHB-3ADG
- 3.Matched pin contact: CH-VH series contact
- 4.Packaging: packing bag
- 5.Compliant to the current RoHS

CUSTOMER DRAWING						Title: 3.96mm pitch WTB housing	
Drawn	jianxiao.wu 2022.03.15	Unit	Scale	Size	Edition	Part No.: VHB-3Y-1*(***)	
Checked	Gouying.Wang 2022.03.15	mm	2.5:1	A4	B1	Previous part No.: TJC39614-3Y-1	
		Sheet No.		1 Of 1		Document No.: CP-DWG-01349	
Approved	Dongxu.Liu 2022.03.15	CWB 浙江合兴电子元件有限公司 CWB Electronics (Zhejiang) Co., Ltd.				Specification No.: PS4101	

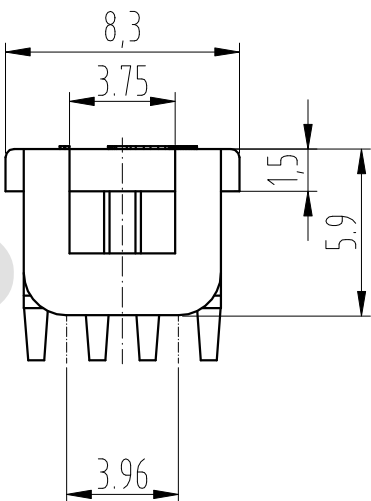
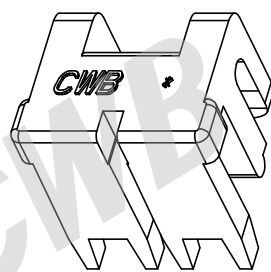
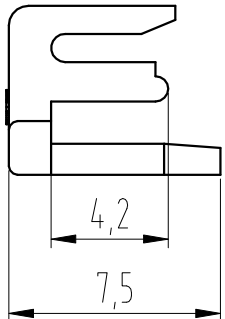
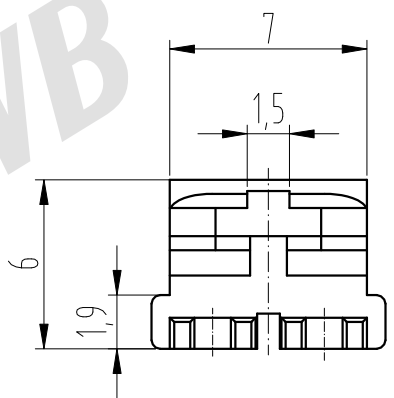
General Tolerance	Dimension	Tolerance	Rev. No	Location	Description	Reviser	Date
	0~3	±0.13					
	3~18	±0.23					
	18~50	±0.35					
	≥50	±0.55					



- Notes:
- 1.Material: PA66 UL94 V-0 GWT750°C
 - 2.Matched header: VH-5A/VH-5A-X/VH-5AW-X/
VH-5AD/VH-5AWJ/VHB-5ADG
 - 3.Matched pin contact: CH-VH(B) series contact
 - 4.Packaging: packing bag
 - 5.Compliant to the current RoHS

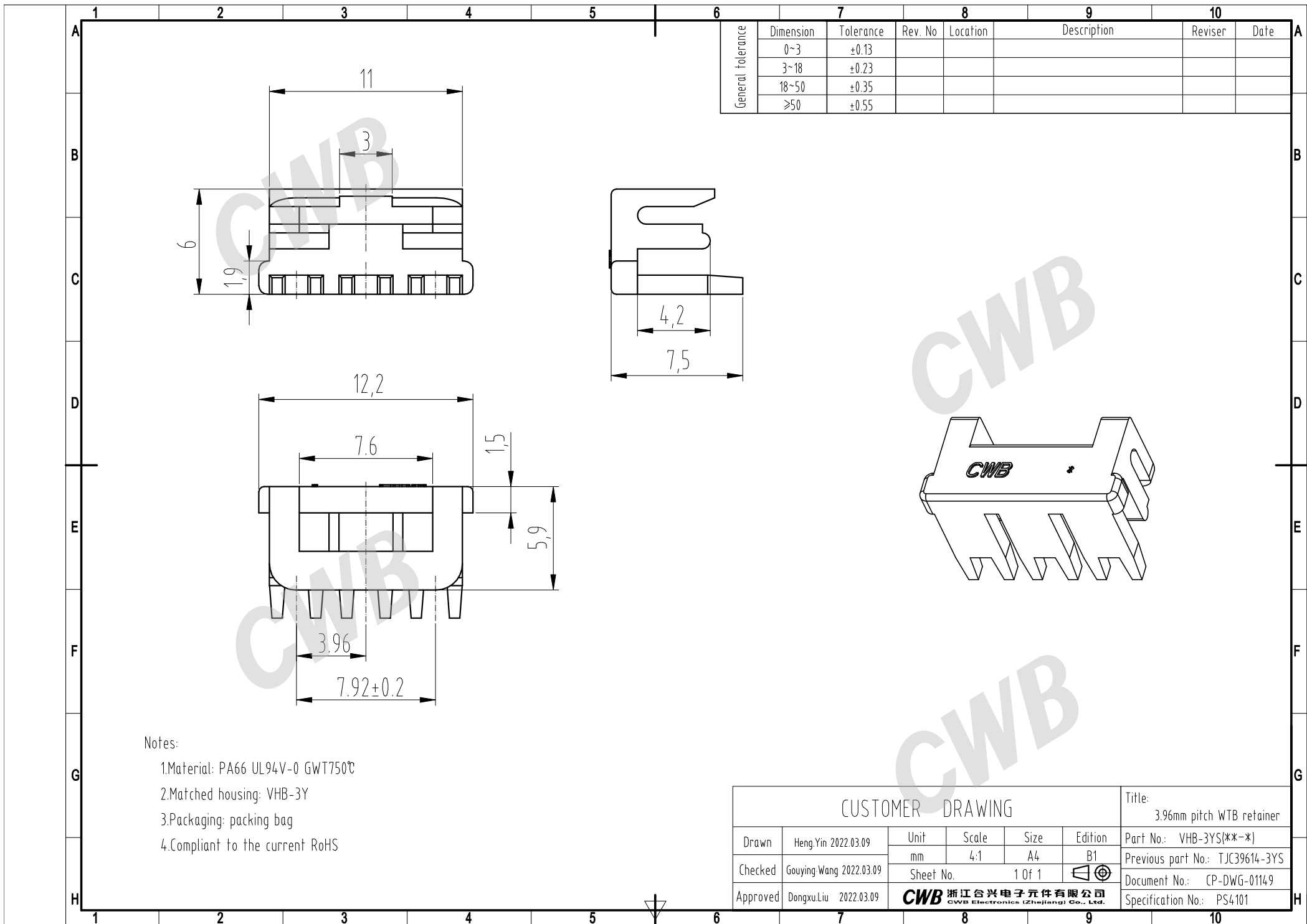
CUSTOMER DRAWING						Title: 3.96mm pitch WTB housing	
Drawn	jianxiao.wu 2022.03.15	Unit	Scale	Size	Edition	Part No.: VHB-5Y-1*(***)	
Checked	Gouying.Wang 2022.03.15	mm	2.5:1	A4	B1	Previous part No.: TJC39614-5Y-1	
		Sheet No.		1 Of 1		Document No.: CP-DWG-01348	
Approved	Dongxu.Liu 2022.03.15	CWB 浙江合兴电子元件有限公司 CWB Electronics (Zhejiang) Co., Ltd.				Specification No.: PS4101	

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 UL94V-0 GWT750℃
 2. Matched housing: VHB-2Y
 3. Packaging: packing bag
 4. Compliant to the current RoHS

CUSTOMER DRAWING						Title: 3.96mm pitch WTB retainer	
Drawn	Heng.Yin 2022.03.09	Unit	Scale	Size	Edition	Part No.: VHB-2YS(**-*)	
Checked	Gouying Wang 2022.03.09	mm	4:1	A4	B1	Previous part No.: TJC39614-2YS	
		Sheet No.		1 of 1		Document No.: CP-DWG-01148	
Approved	Dongxu.Liu 2022.03.09	CWB 浙江合兴电子元件有限公司 <small>CWB Electronics (Zhejiang) Co., Ltd.</small>				Specification No.: PS4101	

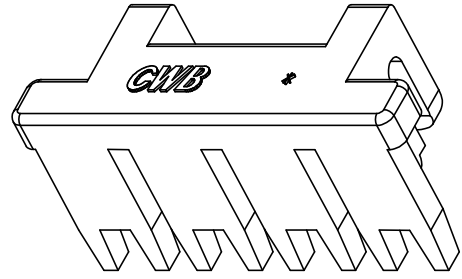
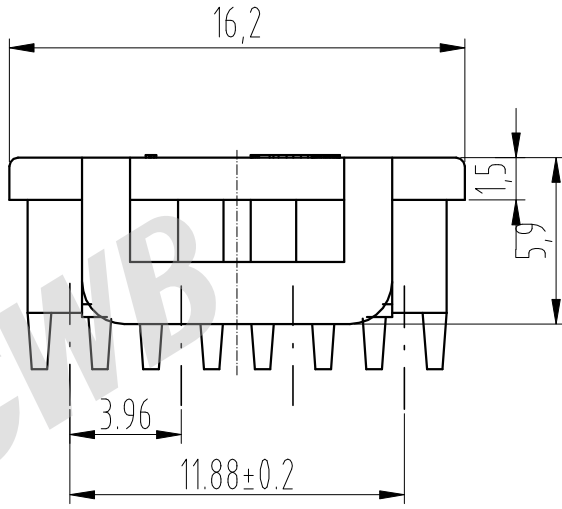
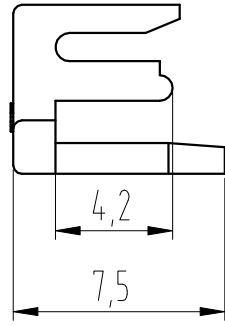
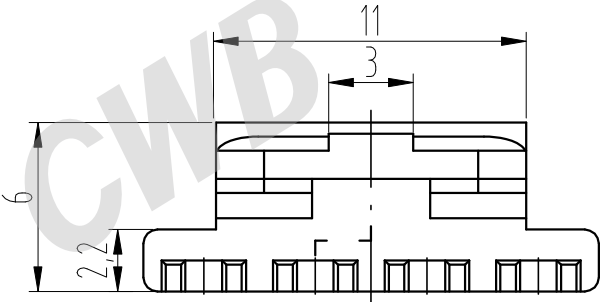


General Tolerance	Dimension	Tolerance	Rev. No	Location	Description	Reviser	Date
	0~3	±0.13					
	3~18	±0.23					
	18~50	±0.35					
	≥50	±0.55					

- Notes:
- 1.Material: PA66 UL94V-0 GWT750℃
 - 2.Matched housing: VHB-3Y
 - 3.Packaging: packing bag
 - 4.Compliant to the current RoHS

CUSTOMER DRAWING						Title: 3.96mm pitch WTB retainer	
Drawn	Heng.Yin 2022.03.09	Unit	Scale	Size	Edition	Part No.: VHB-3YS(**-*)	
Checked	Gouying Wang 2022.03.09	mm	4:1	A4	B1	Previous part No.: TJC39614-3YS	
		Sheet No.		1 Of 1		Document No.: CP-DWG-01149	
Approved	Dongxu.Liu 2022.03.09	CWB 浙江合兴电子元件有限公司 CWB Electronics (Zhejiang) Co., Ltd.				Specification No.: PS4101	

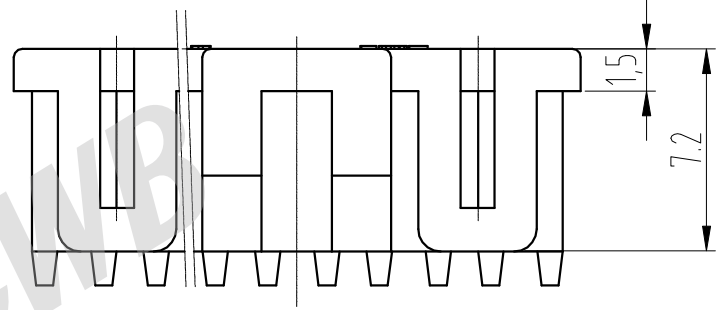
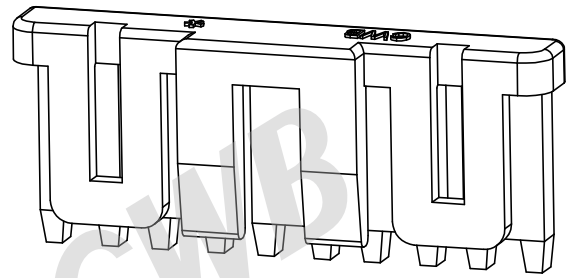
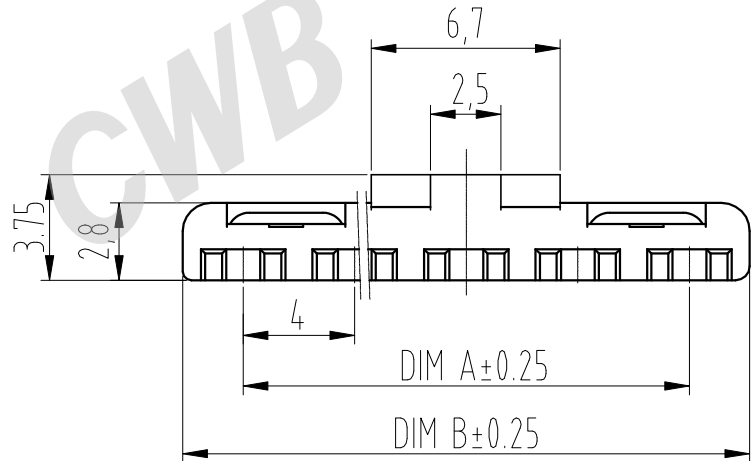
General Tolerance	Dimension	Tolerance	Rev. No	Location	Description	Reviser	Date
	0~3		±0.13				
3~18		±0.23					
18~50		±0.35					
≥50		±0.55					



- Notes:
- 1.Material: PA66 UL94V-0 GWT750℃
 - 2.Matched housing: VHB-4Y
 - 3.Packaging: packing bag
 - 4.Compliant to the current RoHS

CUSTOMER DRAWING						Title: 3.96mm pitch WTB retainer	
Drawn	Heng.Yin 2022.03.09	Unit	Scale	Size	Edition	Part No.: VHB-4YS(**-*)	
Checked	Gouying Wang 2022.03.09	mm	4:1	A4	B1	Previous part No.: TJC39614-4YS	
		Sheet No.		1 Of 1		Document No.: CP-DWG-01150	
Approved	Dongxu.Liu 2022.03.09	CWB 浙江合兴电子元件有限公司 CWB Electronics (Zhejiang) Co., Ltd.				Specification No.: PS4101	

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					

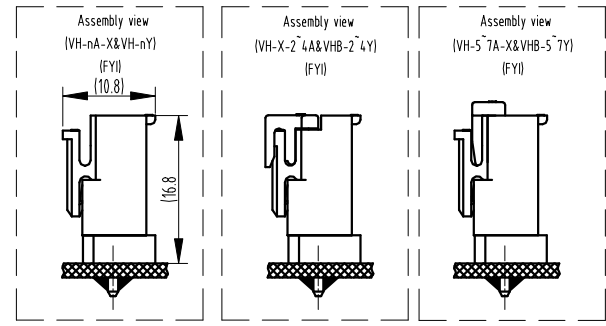
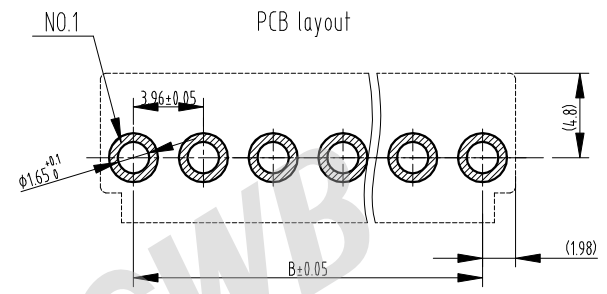
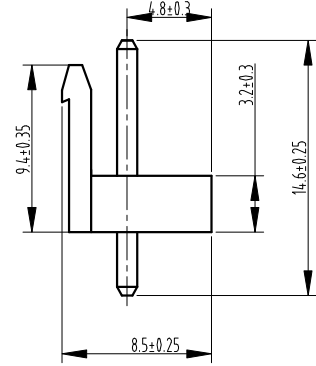
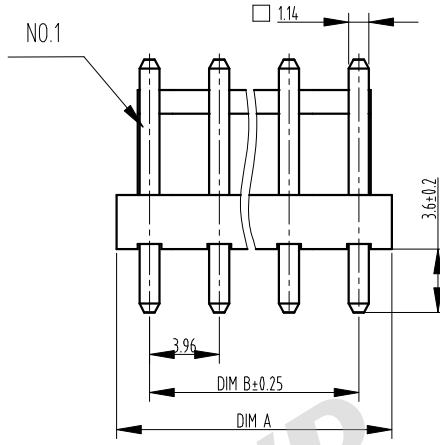
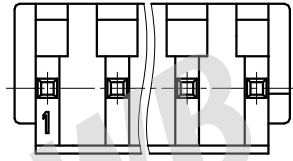


- Notes:
- 1.Material: PA66 UL94V-0 GWT750℃
 - 2.Matched housing: VHB-nY
 - 3.Packaging: packing bag
 - 4.Compliant to the current RoHS

7	VHB-7YS	TJC39614-7YS	23.76	28.04
6	VHB-6YS	TJC39614-6YS	19.8	24.08
5	VHB-5YS	TJC39614-5YS	15.84	20.12
Ckts(n)	Part No.	Previous part No	DIM A	DIM B
			Dimensions	

CUSTOMER DRAWING						Title: 3.96mm pitch WTB retainer	
Drawn	Heng.Yin 2022.03.09	Unit	Scale	Size	Edition	Part No.: VHB-nYS(**-*)	
Checked	Gouying Wang 2022.03.09	mm	4:1	A4	B1	Previous part No.: TJC39614-nYS	
Approved	Dongxu.Liu 2022.03.09	Sheet No.	1 Of 1			Document No.: CP-DWG-01151	
CWB 浙江合兴电子元件有限公司 CWB Electronics (Zhejiang) Co., Ltd.						Specification No.: PS4101	

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					

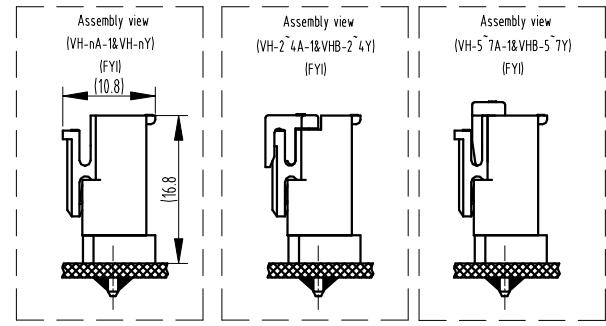
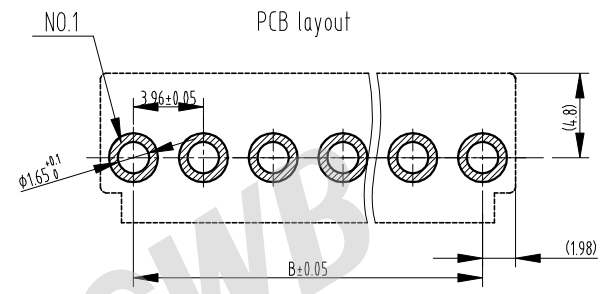
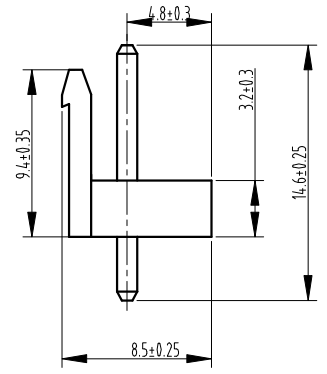
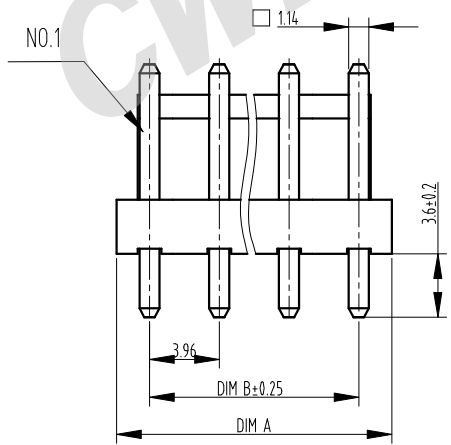


13	VH-13A-X	51.48±0.5	4.7.52
12	VH-12A-X	47.52±0.4	4.3.56
11	VH-11A-X	43.56±0.4	39.60
10	VH-10A-X	39.60±0.4	35.64
9	VH-9A-X	35.64±0.4	31.68
8	VH-8A-X	31.68±0.3	27.72
7	VH-7A-X	27.72±0.3	23.76
6	VH-6A-X	23.76±0.3	19.80
5	VH-5A-X	19.80±0.3	15.84
4	VH-4A-X	15.84±0.2	11.88
3	VH-3A-X	11.88±0.2	7.92
2	VH-2A-X	7.92±0.2	3.96
Ckts	Part No.	A	B
		Dimensions	

- Note:
- Material
Wafer: PA66 UL94V-0, PA66 V-2 ,
PA66 UL94V-0 GWT750°C, PA66+GF V-2
Post: Brass, tin plated
 - Matched housing: VH-nY/VHB-nY
 - Packaging: packing bag
 - Compliant to the current RoHS

CUSTOMER DRAWING						Title: 3.96mm pitch WTB header	
Drawn	Heng.Yin 2022.03.09	Unit	Scale	Size	Edition	Part No.: VH-nA-X *(***)	
Checked	Gouying.Wang 2022.03.09	mm	2.5:1	A4	B1	Previous part No.: /	
Approved	Dongxu.Liu 2022.03.09	Sheet No.	1 Of 1		Document No.: CP-DWG-01137		Specification No.: PS4101
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	Date
	0~3	±0.13					
	3~18	±0.23					
	18~50	±0.35					
	≥50	±0.55					

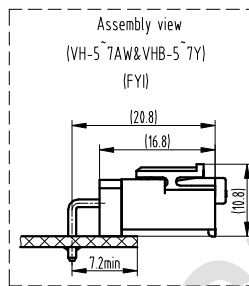
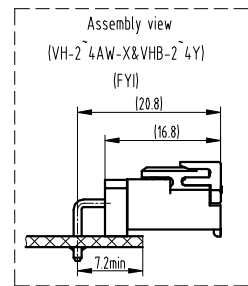
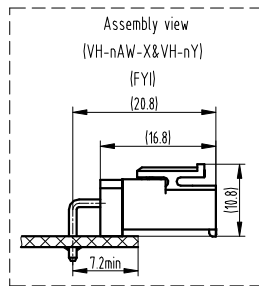
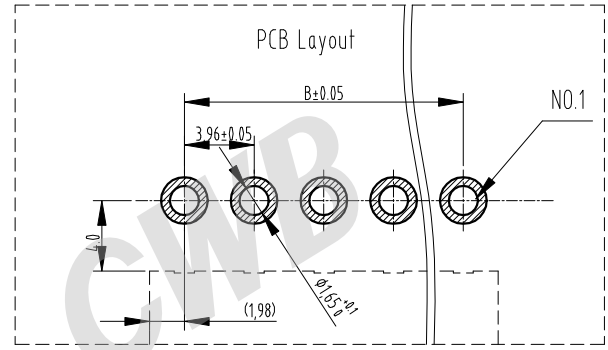
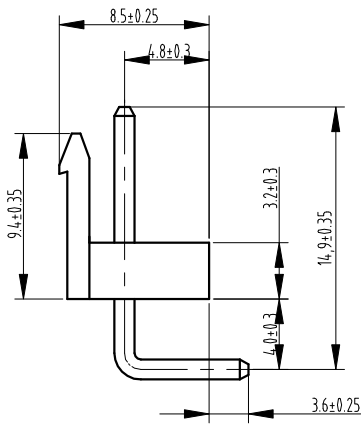
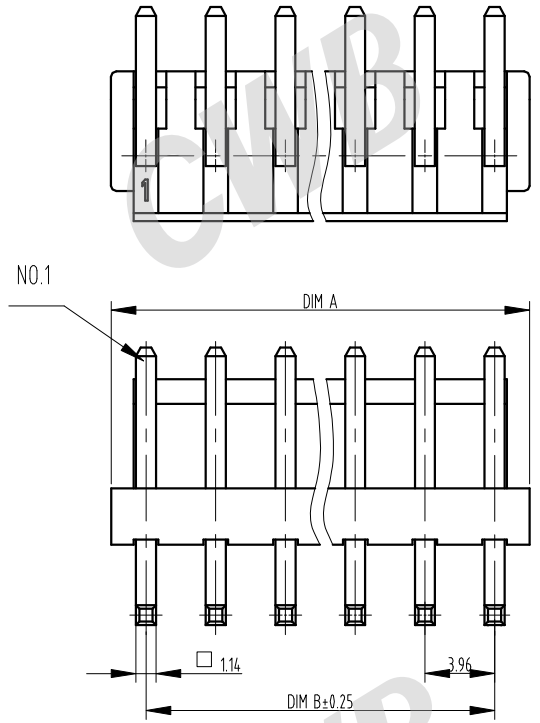


13	VH-13A	51.48±0.5	4.7.52
12	VH-12A	47.52±0.4	4.3.56
11	VH-11A	43.56±0.4	39.60
10	VH-10A	39.60±0.4	35.64
9	VH-9A	35.64±0.4	31.68
8	VH-8A	31.68±0.3	27.72
7	VH-7A	27.72±0.3	23.76
6	VH-6A	23.76±0.3	19.80
5	VH-5A	19.80±0.3	15.84
4	VH-4A	15.84±0.2	11.88
3	VH-3A	11.88±0.2	7.92
2	VH-2A	7.92±0.2	3.96
Ckts	part No.	A	B
		Dimensions	

- Note:
- Material
Wafer: PA66 UL94V-0, PA66 V-2 ,
PA66 UL94V-0 GWT750°C, PA66+GF V-2
Post: Brass, tin plated
 - Matched housing: VH-nY/VHB-nY
 - Packaging: packing bag
 - Compliant to the current RoHS

CUSTOMER DRAWING						Title: 3.96mm pitch WTB header	
Drawn	Heng.Yin 2022.03.09	Unit	Scale	Size	Edition	Part No.: VH-nA *(**~*)	
Checked	Gouying.Wang 2022.03.09	mm	2.5:1	A4	B1	Previous part No.: /	
Approved	Dongxu.Liu 2022.03.09	Sheet No.	1 Of 1		Document No.: CP-DWG-01136		Specification No.: PS4101
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	Date
	0~3	±0.13					
	3~18	±0.23					
	18~50	±0.35					
≥50	±0.55						

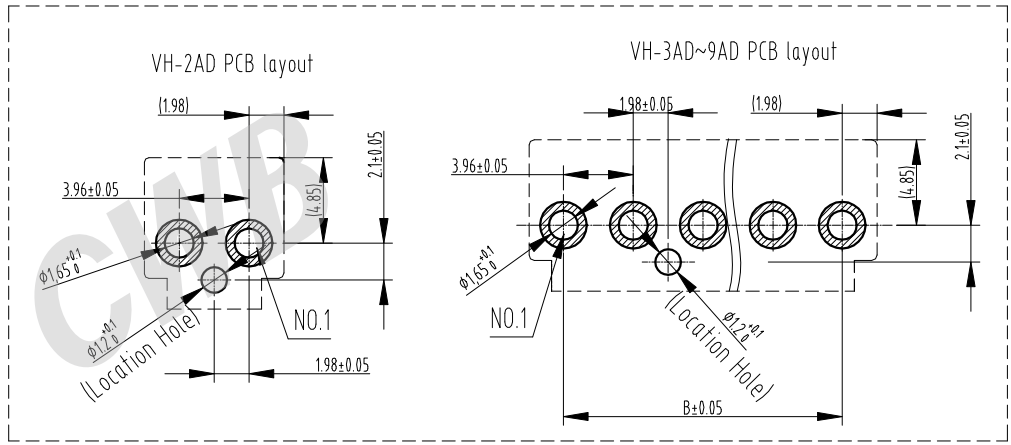
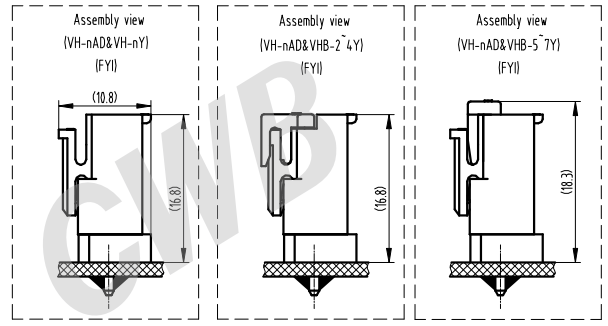
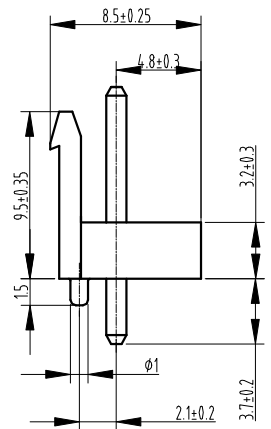
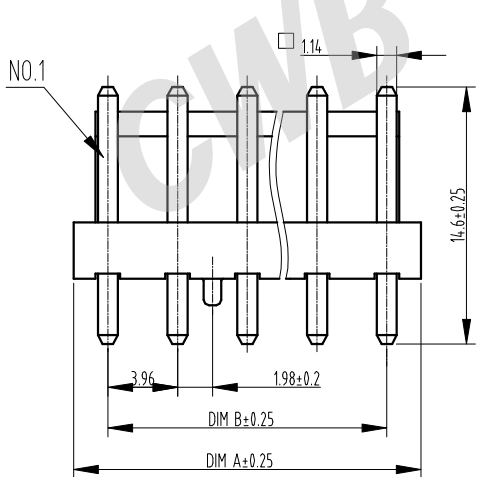


- Note:
- Material
Wafer: PA66 UL94V-0, PA66 V-2, PA66 UL94V-0 GWT750°C, PA66+GF V-2
Post: Brass, tin plated
 - Matched housing: VH-nY/VHB-nY
 - Packaging: packing bag
 - Compliant to the current RoHS

12	VH-12AW-X	47.52±0.4	43.56
11	VH-11AW-X	43.56±0.4	39.60
10	VH-10AW-X	39.60±0.4	35.64
9	VH-9AW-X	35.64±0.4	31.68
8	VH-8AW-X	31.68±0.3	27.72
7	VH-7AW-X	27.72±0.3	23.76
6	VH-6AW-X	23.76±0.3	19.80
5	VH-5AW-X	19.80±0.3	15.84
4	VH-4AW-X	15.84±0.2	11.88
3	VH-3AW-X	11.88±0.2	7.92
2	VH-2AW-X	7.92±0.2	3.96
Ckts	Part No.	A	B
		Dimensions	

CUSTOMER DRAWING						Title: 3.96mm pitch WTB header	
Drawn	Heng.Yin 2022.03.09	Unit	Scale	Size	Edition	Part No.: VH-nAW-X *((*)-*)	
Checked	Gouying.Wang 2022.03.09	mm	2.5:1	A4	B1	Previous part No.: /	
Approved	Dongxu.Liu 2022.03.09	Sheet No.	1 Of 1		Document No.: CP-DWG-01140		Specification No.: PS4101
CWB 浙江合兴电子元件有限公司 CWB Electronics (Zhejiang) Co., Ltd.							

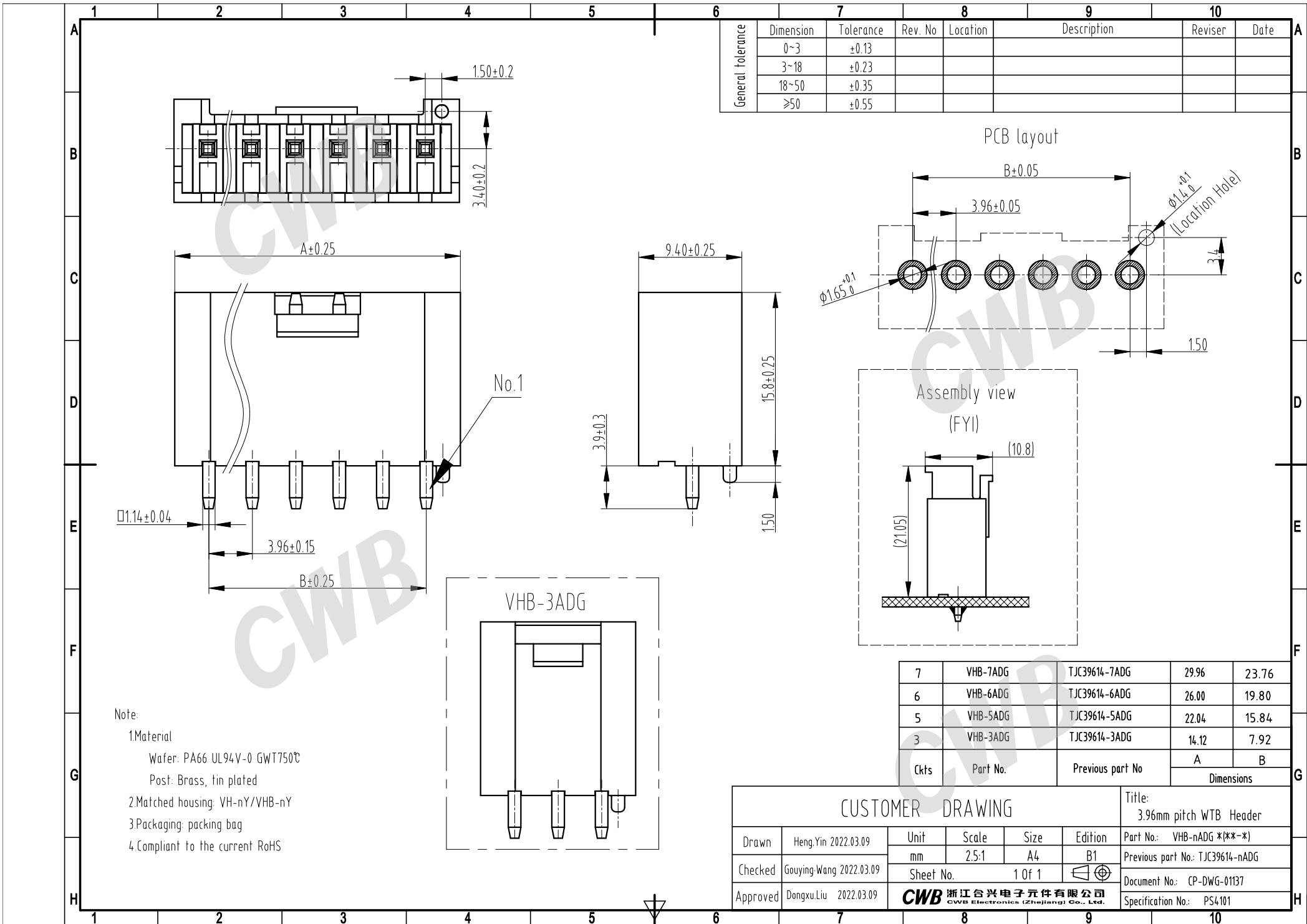
General tolerance	Dimension	Tolerance	Rev. No	Location	Description	Reviser	Date
	0~3	±0.13					
	3~18	±0.23					
	18~50	±0.35					
≥50	±0.55						



- Note:
- Material
Wafer: PA66 UL94V-2, PA66 UL94V-0 GWT750°C
Post: Brass, tin plated
 - Matched housing: VH-nY/VHB-nY
 - Packaging: packing bag
 - Compliant to the current RoHS

9	VH-9AD	35.64±0.4	31.68
8	VH-8AD	31.68±0.3	27.72
7	VH-7AD	27.72±0.3	23.76
6	VH-6AD	23.76±0.3	19.80
5	VH-5AD	19.80±0.3	15.84
4	VH-4AD	15.84±0.2	11.88
3	VH-3AD	11.88±0.2	7.92
2	VH-2AD	7.92±0.2	3.96
Ckts	Previous part No	Dimensions	
		A	B

CUSTOMER DRAWING						Title: 3.96mm pitch WTB header	
Drawn	Heng.Yin 2022.03.09	Unit	Scale	Size	Edition	Part No.: VH-nAD *(**~*)	
Checked	Gouying.Wang 2022.03.09	mm	2.5:1	A4	B1	Previous part No.: /	
Approved	Dongxu.Liu 2022.03.09	Sheet No.	1 Of 1		Document No.: CP-DWG-01138		
CWB 浙江合兴电子元件有限公司 CWB Electronics (Zhejiang) Co., Ltd.						Specification No.: PS4101	



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					

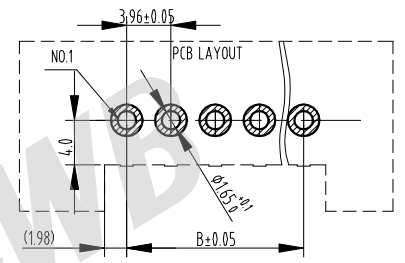
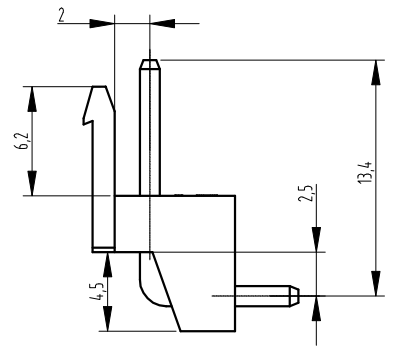
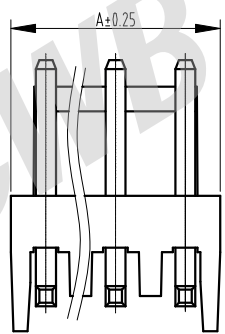
7	VHB-7ADG	TJC39614-7ADG	29.96	23.76
6	VHB-6ADG	TJC39614-6ADG	26.00	19.80
5	VHB-5ADG	TJC39614-5ADG	22.04	15.84
3	VHB-3ADG	TJC39614-3ADG	14.12	7.92
Ckts	Part No.	Previous part No	Dimensions	
			A	B

Note:

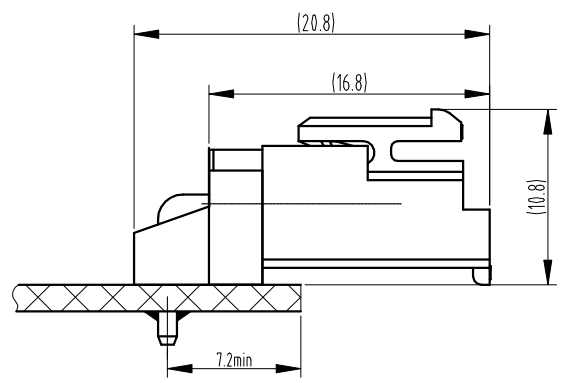
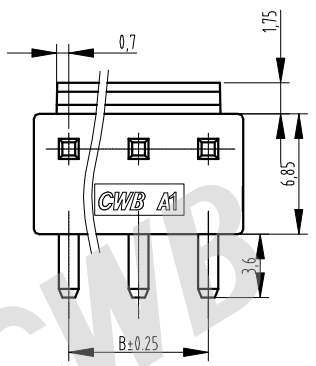
- Material
Wafer: PA66 UL94V-0 GW750°C
Post: Brass, tin plated
- Matched housing: VH-nY/VHB-nY
- Packaging: packing bag
- Compliant to the current RoHS

CUSTOMER DRAWING						Title:
Drawn	Heng.Yin 2022.03.09	Unit	Scale	Size	Edition	3.96mm pitch WTB Header
Checked	Gouying.Wang 2022.03.09	mm	2.5:1	A4	B1	Part No.: VHB-nADG *(**~*)
Approved	Dongxu.Liu 2022.03.09	Sheet No.	1 Of 1			Previous part No.: TJC39614-nADG
CWB 浙江合兴电子元件有限公司 CWB Electronics (Zhejiang) Co., Ltd.						Document No.: CP-DWG-01137
						Specification No.: PS4101

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					



Assembly View
(FYI)

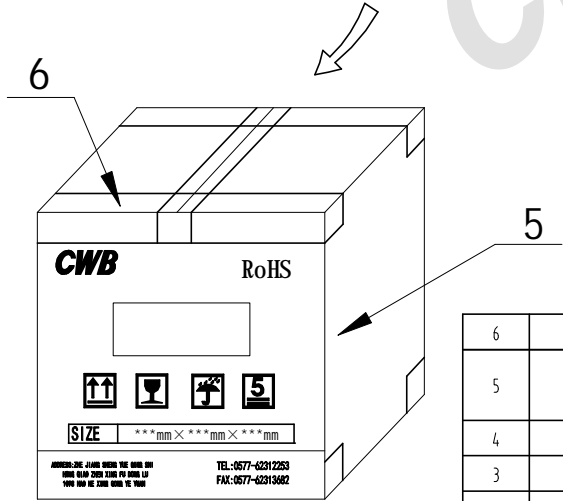
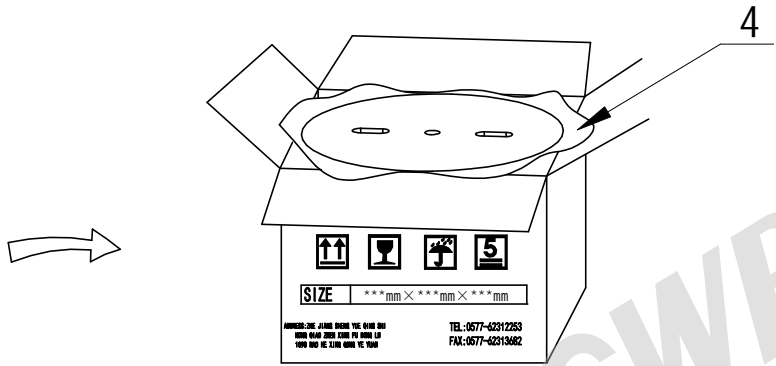
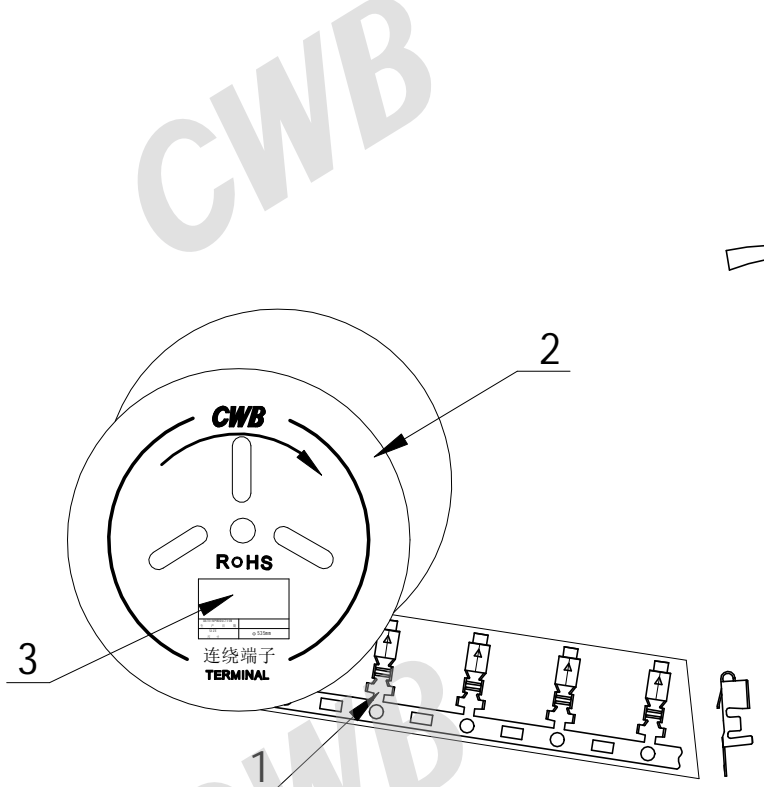


- Note:
- Material
Wafer: PA66 UL94V-0 GWT750°C
Post: Brass, tin plated
 - Matched housing: VH-nY/VHB-nY
 - Packaging: packing bag
 - Compliant to the current RoHS

6	VH-6AWJ	23.76	19.80
5	VH-5AWJ	19.80	15.84
4	VH-4AWJ	15.84	11.88
3	VH-3AWJ	11.88	7.92
2	VH-2AWJ	7.92	3.96
Ckts	Part No.	Dimensions A B	

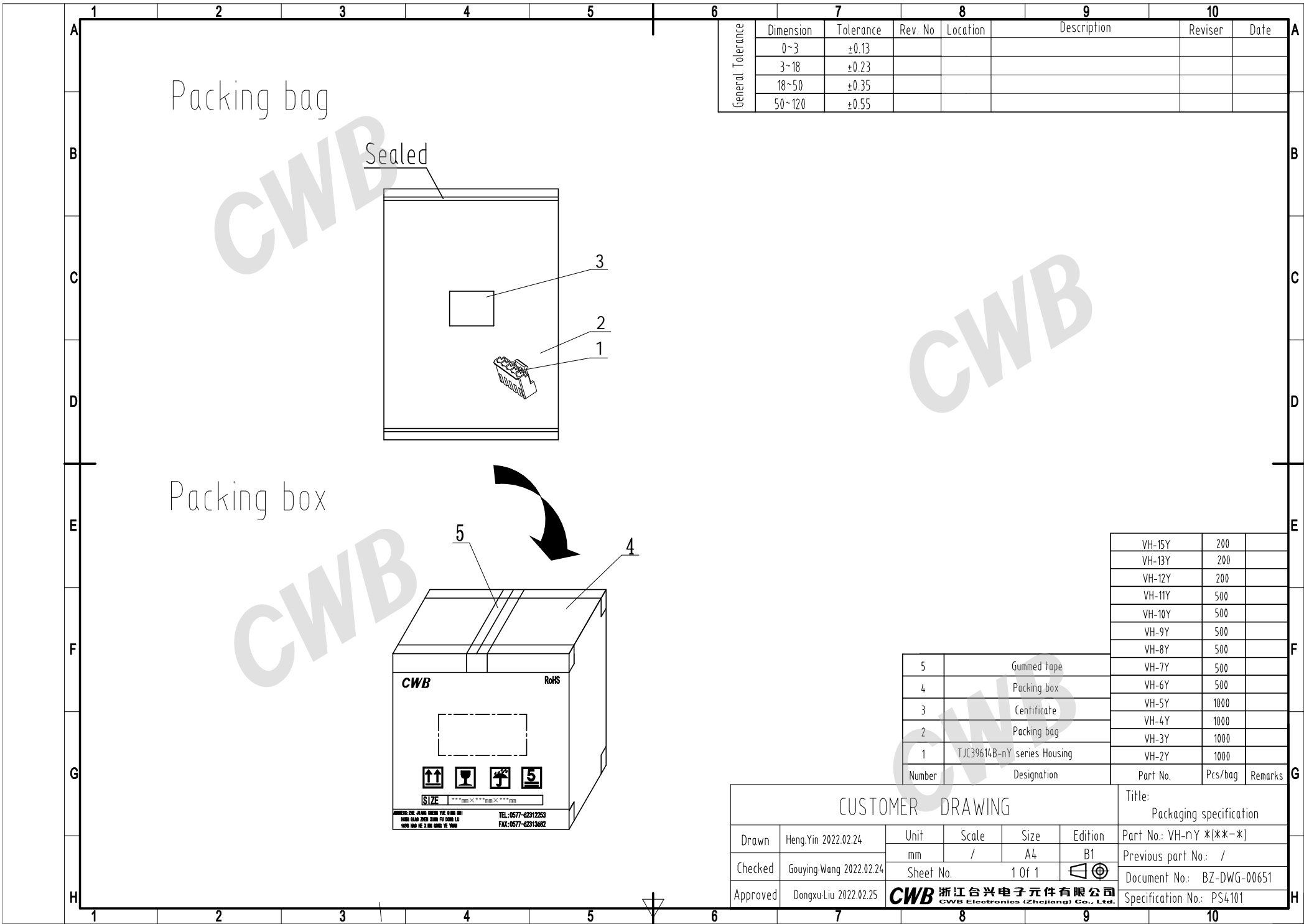
CUSTOMER DRAWING						Title: 3.96mm pitch WTB header	
Drawn	Heng.Yin 2022.03.09	Unit	Scale	Size	Edition	Part No.: VH-nAWJ *(***)	
Checked	Gouying.Wang 2022.03.09	mm	2.5:1	A4	B1	Previous part No.: /	
Approved	Dongxu.Liu 2022.03.09	Sheet No.	1 Of 1		Document No.: CP-DWG-01141		
CWB 浙江合兴电子元件有限公司 CWB Electronics (Zhejiang) Co., Ltd.						Specification No.: PS4101	

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

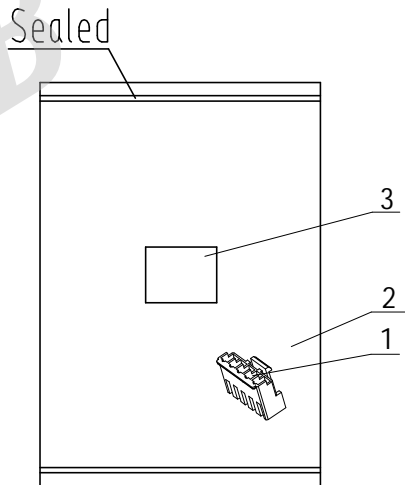


6	Gummed tape		
5	Packing box		
4	Packing bag		
3	Certificate		
2	Reel	CH-VH-*/CH-VH-3-*/ /CH-VH-4-*/	3.5Kpcs/reel
		CH-VHB-*/	3.3Kpcs/reel
1	CH-VH(B) series Contact		
Number	Designation	Remarks	

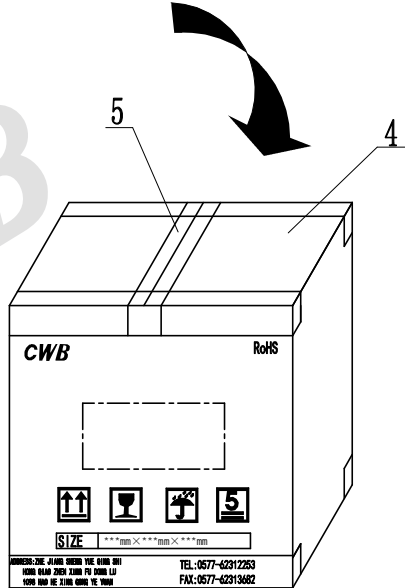
CUSTOMER DRAWING						Title: Packaging specification	
Drawn	Heng.Yin 2022.02.24	Unit	Scale	Size	Edition	Part No: CH-VH(B)-** series contact	
Checked	Gouying.Wang 2022.02.24	mm	/	A4	B1	Previous part No: CH-VH series contact	
		Sheet No.		1 Of 1		Document No: BZ-DWG-00654	
Approved	Dongxu.Liu 2022.02.25	CWB 浙江台兴电子元件有限公司 CWB Electronics (Zhejiang) Co., Ltd.				Specification No: PS4101	



Packing bag



Packing box



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

CWB

CWB

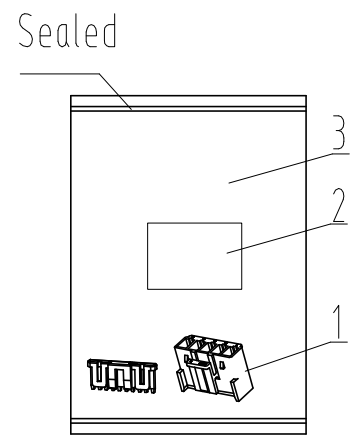
CWB

5	Gummed tape	VH-15Y	200
4	Packing box	VH-13Y	200
3	Certificate	VH-12Y	200
2	Packing bag	VH-11Y	500
1	TJC39614B-nY series Housing	VH-10Y	500
		VH-9Y	500
		VH-8Y	500
		VH-7Y	500
		VH-6Y	500
		VH-5Y	1000
		VH-4Y	1000
		VH-3Y	1000
		VH-2Y	1000

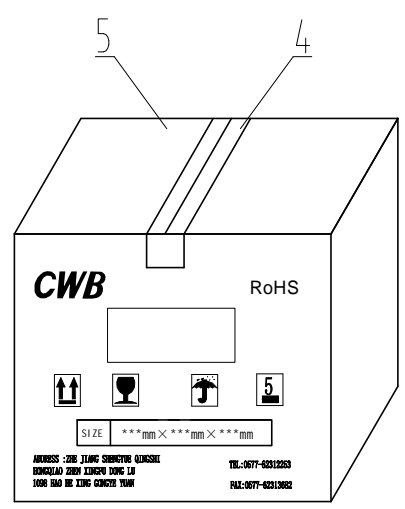
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Drawn	Heng Yin 2022.02.24	Unit	Scale	Size	Edition	Part No.: VH-nY *(**~*)	
Checked	Gouying Wang 2022.02.24	mm	/	A4	B1	Previous part No.: /	
Approved	Dongxu Liu 2022.02.25	Sheet No.	1 of 1		Document No.: BZ-DWG-00651		
CWB 浙江台兴电子元件有限公司 CWB Electronics (Zhejiang) Co., Ltd.						Specification No.: PS4101	

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

Packing bag

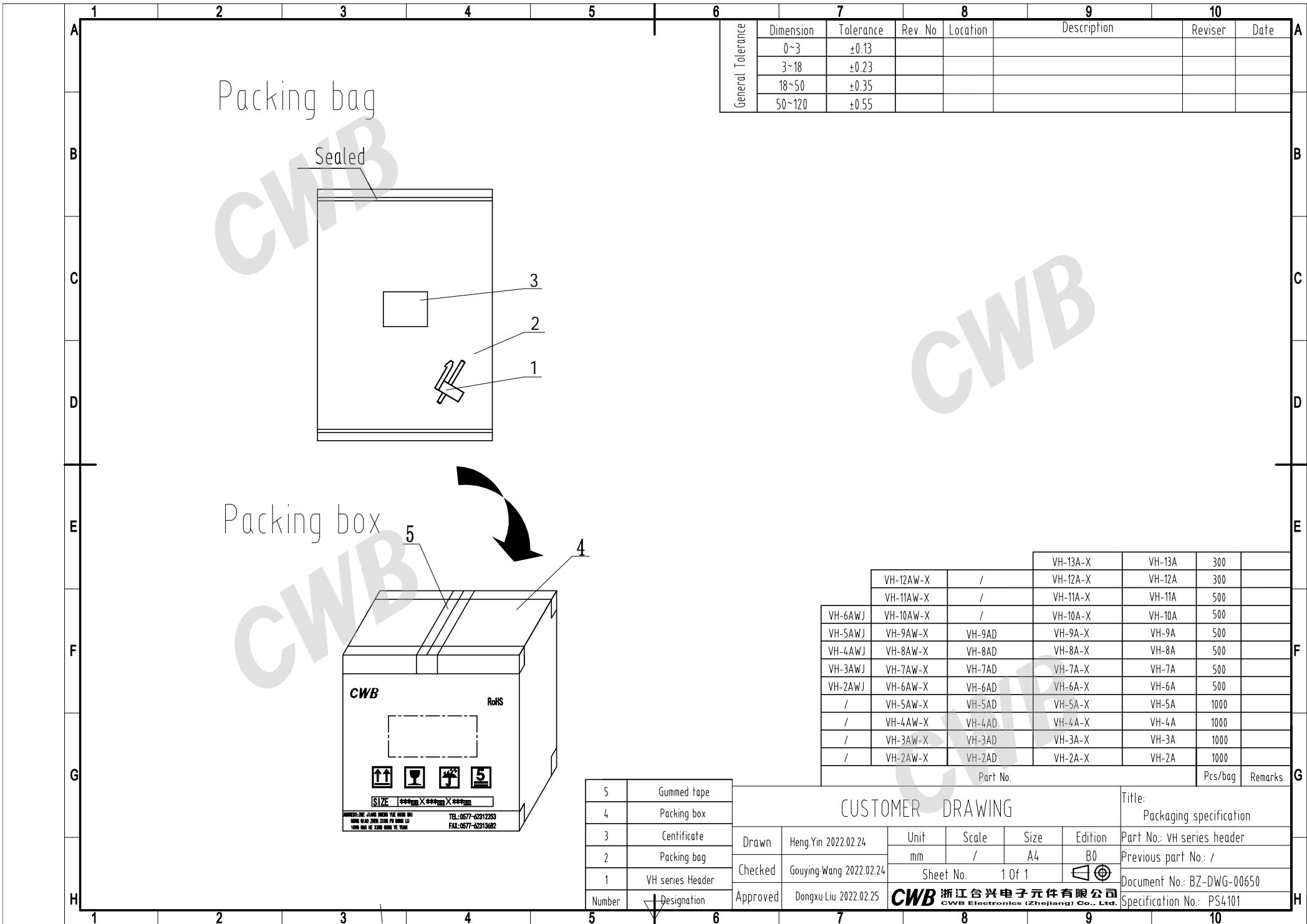


Packing box

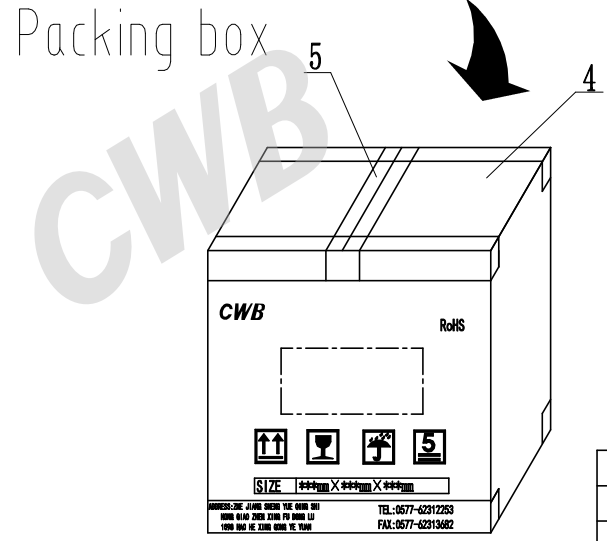
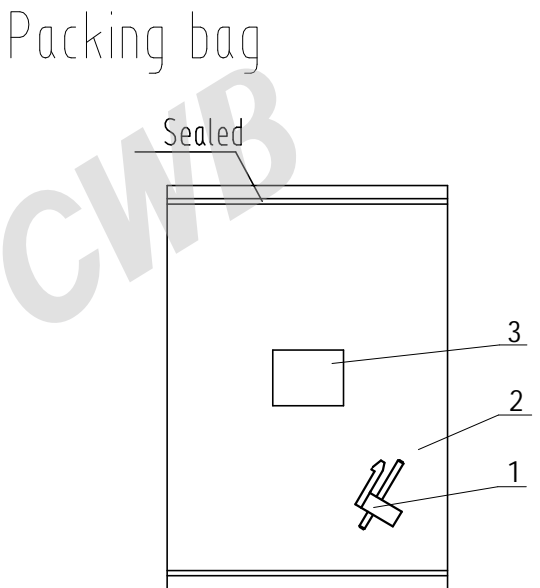


		VHB-5Y-1	500				
		VHB-3Y-1	1000				
5	Packing box	VHB-7Y	500		VHB-7YS	500	
4	Gummed tape	VHB-6Y	500		VHB-6YS	500	
3	Packing bag	VHB-5Y	1000		VHB-5YS	1000	
2	Certification	VHB-4Y	1000		VHB-4YS	1000	
1	VHB-nY/nYS Series	VHB-3Y	1000		VHB-3YS	1000	
		VHB-2Y	1000		VHB-2YS	1000	
Number	Designation	Part No.	Pcs/bag	Remarks	Part No.	Pcs/bag	Remarks

CUSTOMER DRAWING						Title: Packaging specification	
Drawn	Heng.Yin 2022.02.24	Unit	Scale	Size	Edition	Part No.: VHB-nY/nYS *(***)	
Checked	Guoying.Wang 2022.02.24	mm	/	A4	B1	Previous part No.: TJC39614-nY/nYS	
Approved	Dongxu.Liu 2022.02.25	Sheet No. 1 Of 1				Document No.: BZ-DWG-00653	
CWB 浙江合兴电子元件有限公司 CWB Electronics (Zhejiang) Co., Ltd.						Specification No.: PS4101	



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



Part No.	Pcs/bag	Remarks
VH-12AW-X	/	VH-12A-X
VH-11AW-X	/	VH-11A-X
VH-6AWJ	VH-10AW-X	/
VH-5AWJ	VH-9AW-X	VH-9AD
VH-4AWJ	VH-8AW-X	VH-8AD
VH-3AWJ	VH-7AW-X	VH-7AD
VH-2AWJ	VH-6AW-X	VH-6AD
/	VH-5AW-X	VH-5AD
/	VH-4AW-X	VH-4AD
/	VH-3AW-X	VH-3AD
/	VH-2AW-X	VH-2AD

5	Gummed tape
4	Packing box
3	Certificate
2	Packing bag
1	VH series Header
Number	Designation

CUSTOMER DRAWING

Drawn: Heng Yin 2022.02.24

Checked: Gouying Wang 2022.02.24

Approved: Dongxu Liu 2022.02.25

Unit: mm, Scale: /, Size: A4, Edition: B0

Sheet No. 1 Of 1

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

Title: Packaging specification

Part No.: VH series header

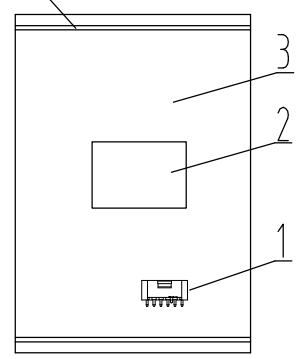
Previous part No.: /

Document No.: BZ-DWG-00650

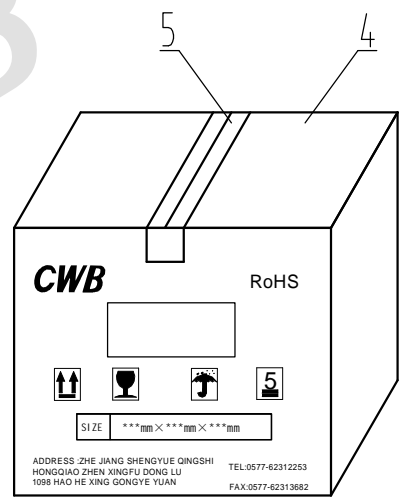
Specification No.: PS4101

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

Packing bag
Sealed



Packing box



5	Gummed tape			
4	Packing box	VHB-7ADG	TJC39614-7ADG	500
3	Packing bag	VHB-6ADG	TJC39614-6ADG	500
2	Certificate	VHB-5ADG	TJC39614-5ADG	500
1	VHB series header	VHB-3ADG	TJC39614-3ADG	500
Number	Designation	Part No.	Previous part No.	Pcs/bag

CUSTOMER DRAWING						Title: Packaging specification	
Drawn	Heng.Yin 2022.02.24	Unit	Scale	Size	Edition	Part No.: VHB-nADG *(***)	
Checked	Guoying.Wang 2022.02.24	mm	/	A4	B0	Previous part No.: TJC39614-nADG	
Approved	Dongxu.Liu 2022.02.25	Sheet No. 1 of 1				Document No.: BZ-DWG-00652	
CWB 浙江合兴电子元件有限公司 CWB Electronics (Zhejiang) Co., Ltd.						Specification No.: PS4101	

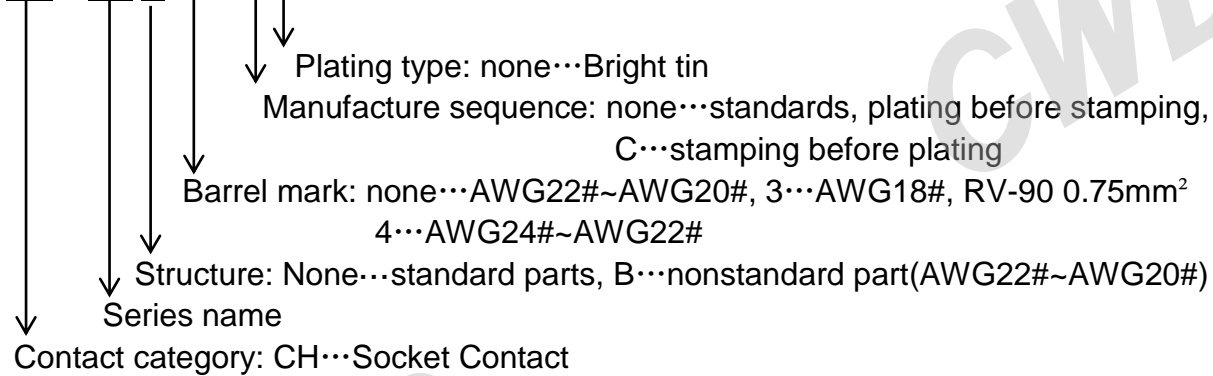
VH 系列命名规则

VH series naming conventions

1. Contact

CH-VH-*-*

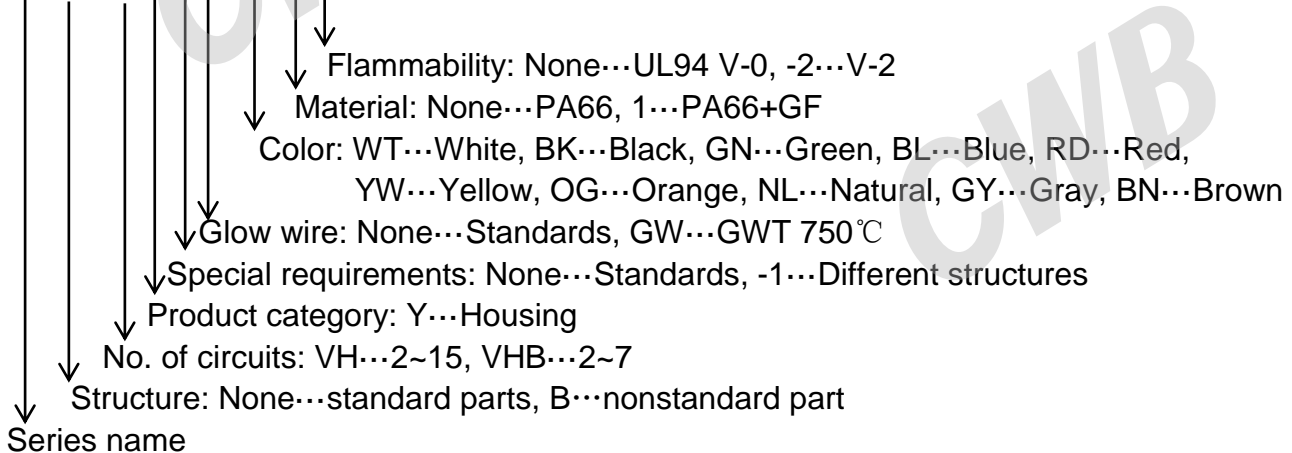
CH - VH B - * - * *



2. Housing

VH-nY *(**-*), VHB-nY-* *(**-*)

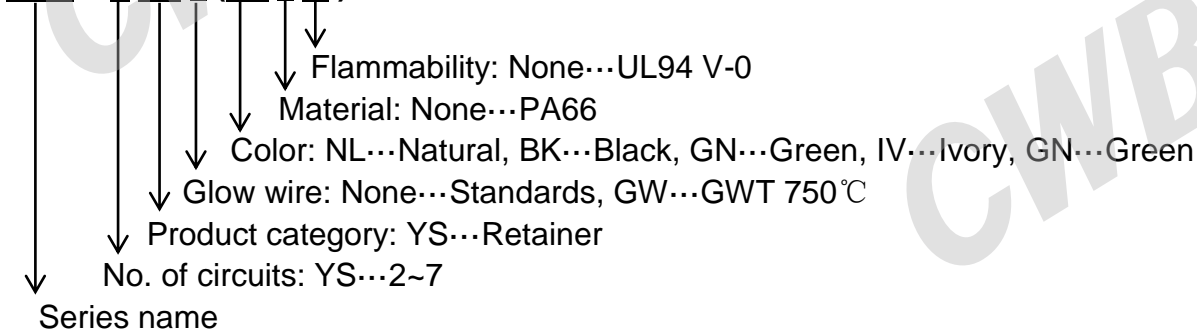
VH B - n Y * *(WT * - *)



3. Retainer

VHB -nYS *(**-*)

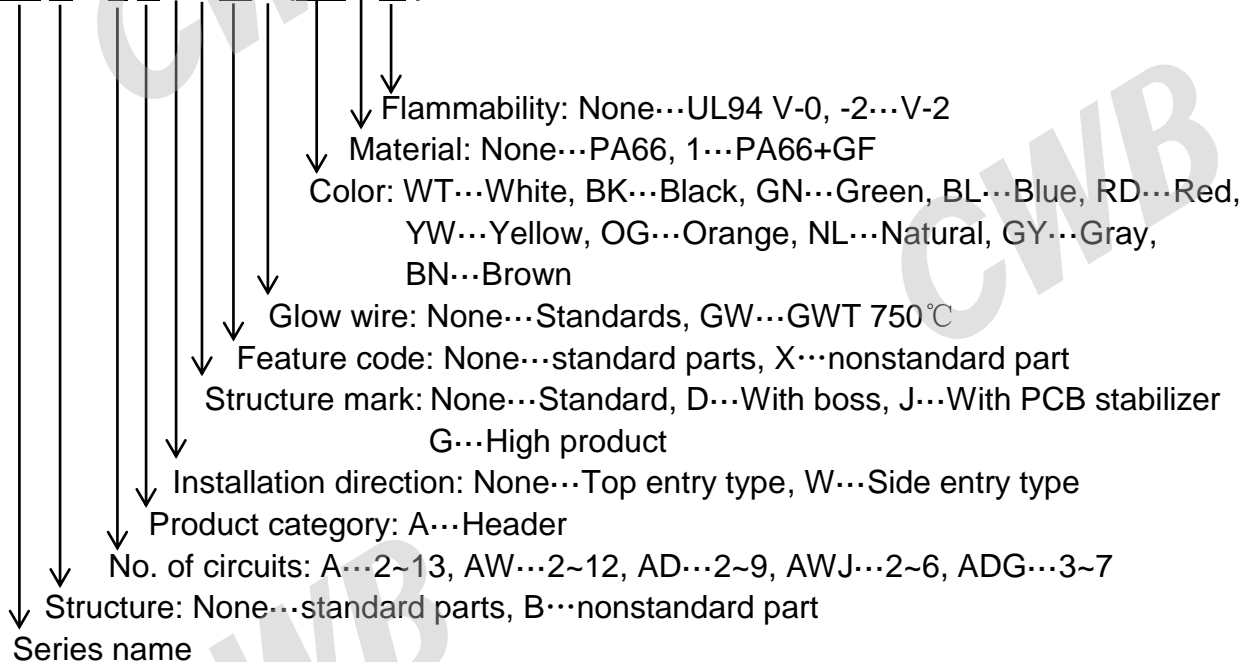
VHB - n YS * (NL * - *)



4. DIP Header

VH-nA (**-*), VH-nA-X (**-*), VH-nAW-X (**-*), VH-nAD (**-*), VH-nAWJ (**-*),
VHB-nADG (**-*)

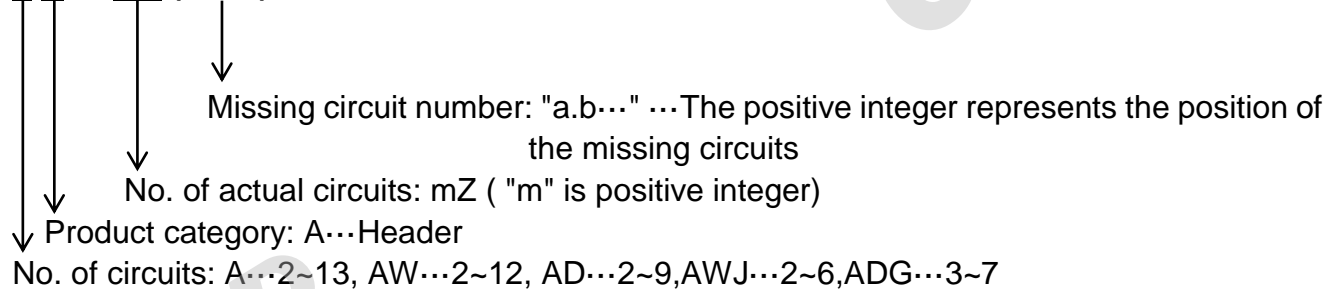
VH B - n A ** -X * (WT * -*)



5. Assembly which missing circuits

VH-nAmZ(a.b...) (**-*), VH-nAmZ(a.b...)-X (**-*), VH-nAWmZ(a.b...)-X (**-*),
VH-nADmZ(a.b...) (**-*), VH-nAWJmZ(a.b...) (**-*), VHB-nADGZ(a.b...) (**-*)

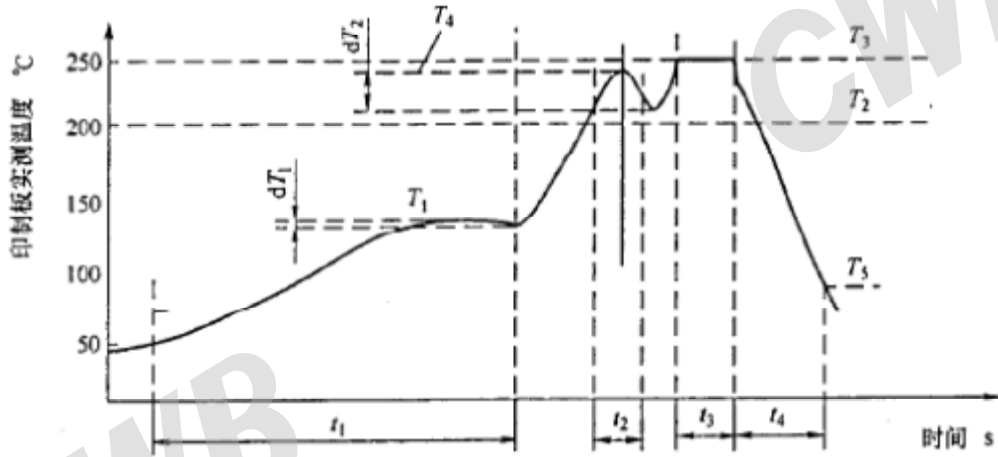
...n A ... mZ (a.b...)



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

波峰焊曲线图(参考)

Pb-free Wave soldering Temperature profile



图中: $T_1 > 150^\circ\text{C}$ $T_2 > 220^\circ\text{C}$ $T_3 = 250^\circ\text{C} \pm 2^\circ\text{C}$ $T_4 > 230^\circ\text{C}$ $T_5 < 80^\circ\text{C}$
 $dT_1 < 5^\circ\text{C}$ $dT_2 < 15^\circ\text{C}$ $t_1 > 60\text{s}$ $t_2 + t_3 > 3\text{s} \sim 5\text{s}$ $T_3 - T_1 < 100^\circ\text{C}$

注: 参照标准: JBT 7488-2008