



# 深圳市华灿天禄电子有限公司

## 物料承认书

### SPECIFICATION FOR APPROVAL

客户名称:  
Customer: \_\_\_\_\_  
产品名称:  
Description: VH (3.96) 单排 系列  
规格型号:  
Modelno: \_\_\_\_\_  
物料编号:  
Cust P/N: \_\_\_\_\_

#### 出厂签章

校对 Issuer

审核 Engineer

批准 Approver

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#### 承认签章 CUSTOMER

校对 Issuer

审核 Engineer

批准 Approver

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确认合格后烦请回签一份给我司存档, 谢谢!

Pls. sign acknowledge and re-turn document to us after confirming, thank you !

# 产品承认书目录

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PART No. : HC-VH - \*\*\*\*

RELEASE DATE: 2019/7/25

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## 1、Scope

### 适用范围

The contents of specifications for 3.96 series connector strip including product performance, test methods and inspection requirements

本规格书内容适用于 3.96 系列条形连接器，包含了产品的性能，试验方法和试验要求

## 2、APPLICABLE STANDARDS

### 适用的标准

- |     |          |  |
|-----|----------|--|
| 2.1 | GB/T2421 | Testing method for Environmental of Electrical Connectors Class 1:<br>General Principles |
|     | GB/T2421 | 电工电子产品环境试验 第一部分 总则   |
| 2.2 | GB/T2423 | Testing method for Environmental of Electrical Connectors                                |
|     | GB/T2423 | 电工电子产品环境试验方法   |
| 2.3 | GB/T2424 | Testing method for Environmental of Electrical Connectors                                |
|     | GB/T2424 | 电工电子产品环境试验导则   |
| 2.4 | GB/T5095 | Testing procedure/method for components of electric equipment                            |
|     | GB/T5095 | 电子设备用机电元件基本试验规则及测量方法   |

## 3、USE CONDITION

### 使用条件

- 3.1 Ambient temperature Range:  $-40^{\circ}\text{C} \sim +105^{\circ}\text{C}$   
环境温度:  $-40^{\circ}\text{C} \sim +105^{\circ}\text{C}$
- 3.2 Applicable Wire Sizes: AWG #22~#16  
适用线规: AWG #22~#16
- 3.3 Applicable PC board thick:ness: 1.6mm  
适用PC板厚度: 1.6mm

## 4、Appearance and Dimension

### 外观尺寸

- 4.1 Appearance : Product surface without defect 、dirt、crack、and mechanical damage, Contact without rust plating not oxides and not peeled  
产品表面不应有对制品有害的缺陷、污垢、裂痕及机械损伤；接触件无锈蚀、镀层氧化、脱落等现象。
- 4.2 Dimension: According to drawings  
外观尺寸: 依照附图
- 4.3 Exchangeable: Exchangeable with same specification products.  
互换性: 相同规格应能互换



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## 5、Material

材料

No. 序号	P/N 零件名称	Type 类型	Material 材料	Finish 表面处理	Explain 说明
5.1	Terminal 端子-T	Contact 插簧	Phosphor bronze 锡青磷铜厚0.25mm	Tin plating 镀锡	ROHS
5.2	Housing 孔座-Y	Plastic 塑壳	Nylon66 UL94V-0 (2)	Color: Nature 颜色: 本色	
5.3	Wafer 针座-A	Plastic 塑壳	Nylon66 UL94V-0 (2)	Color: Nature 颜色: 本色	
		Contact 插针	Brass 黄铜	Tin plating 镀锡	
5.4	Wafer 针座-AW	Plastic 塑壳	Nylon66 UL94V-0 (2)	Color: Nature 颜色: 本色	
		Contact 插针	Brass 黄铜	Tin plating 镀锡	
5.5	Wafer 针座-AWT	Plastic 塑壳	LCP UL94V-0	Color: Nature 颜色: 本色	
		Contact 插针	Brass 黄铜	Tin plating 镀锡	
		Solder tab 焊护耳	Brass 黄铜	Tin plating 镀锡	
5.6	Wafer 针座-ALT	Plastic 塑壳	LCP UL94V-0	Color: Nature 颜色: 本色	
		Contact 插针	Brass 黄铜	Tin plating 镀锡	
		Solder tab 焊护耳	Brass 黄铜	Tin plating 镀锡	



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6、Electrical Performance

电气性能

No. 序号	Item 项目	Test mode 试验方法	Requirement 技术要求
6.1	Current Rated 额定电流		7A AC DC
6.2	Voltage Rated 额定电压		250V AC DC
6.3	Contact Resistance 接触电阻	<p>A maximum voltage of 20mV and maximum current of 100mA are applied to the Mate connector</p> <p>组合状态下的连接器，两端施以最大测试电压20 mV以及最大测试电流100 mA</p> <p>Does not include wire resistance</p> <p>不包含电线阻抗</p>	<p>Initial value less than 20mΩ</p> <p>初始值 ≤ 20mΩ</p>
6.4	Withstand voltage 耐电压	<p>Apply 1500V AC(rms) for 1 minute and the leakage current shall not exceed 0.5mA to the adjacent terminal and ground of the mate connectors</p> <p>组合状态下的连接器，相邻两导体末端各施以电压1500V AC（有效值）时间1分钟，且漏电流必须小于0.5mA（毫安培）</p>	<p>No breakdown or flashover</p> <p>无击穿或者产生火花</p>
6.5	Insulation Resistance 绝缘电阻	<p>Apply 500V DC(rms) for 1 minute between adjacent contacts to measure the insulation resistance</p> <p>相邻两接触导体，一分钟内施以 500V DC电压，测量期间的绝缘阻抗值</p>	<p>More than 1000 MΩ</p> <p>≥1000M Ω</p>



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7、 Mechanical Performance:

机械性能

No. 序号	Item 项目	Test mode 试验方法	Requirement 技术要求
7.1	Terminal crimping Wire strength 端子压接导线强度	Terminal crimping wire Axial per minute to 25 ±3mm rate of the pullout force  端子所压接电线，以每分钟 25±3mm 速之轴向拔出力	AWG#16wire AWG#16导线 More than 130N ≥130N
			AWG#18wire AWG#18导线 More than 80N ≥80N
			AWG#20wire AWG#20导线 More than 60N ≥60N
			AWG#22wire AWG#22导线 More than 40N ≥40N
7.2	Fixed terminals And hole seat 端子与孔座固定力	The terminal and the hole seat at a react per minute to 25 ±3mm along the write direction are pulled out from the hole in the seat capacity  端子与孔座配合以每分钟 25±3mm 的速度 沿导线方向,将端子从孔座中拔出的力	Percontact 单一接触点 More than 30N ≥30N
7.3	Single contact insertion force 单接触插入力	The housing together with the terminal ends with wafer matched at a rate per minute to 25±3mm inserting force test  孔座连同端子与针座两端互配以每分钟 25 ±3mm 的速度作插入力测试	Less than 8N ≤8N
7.4	Single contact Withdrawal force 单接触拔出力	The housing together with the terminal ends with wafer matched at a rate per minute to 25±3mm inserting force test  孔座连同端子与针座两端互配以每分钟 25 ±3mm 的速度作拔出力测试	More than 2N ≥2N
7.5	Pin Retention Force pin Pin针固定力	Exerts a force on the pin end at a rate per Minute 25±3mm until the needle exit Seat pull-out force  在脚端施加力以每分钟 25±3mm 的速度直到 针退出针座的拔出力	Percontact 单一接触点 More than 30N ≥30N



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7、 Mechanical Performance:

机械性能

No. 序号	Item 项目	Test mode 试验方法	Requirement 技术要求
7.6	Durability 耐久性	<p>Mate connectors up 30 cycles at a Maximum rate of 10 cycles per minute prior to environmental test</p> <p>组合状态下的连接器且未经环境测试每分钟内进行10次嵌入与拔出，连续30次嵌入与拔出往返测试</p>	<p>Contact Resistance <math>\leq 40m \Omega</math></p> <p>接触电阻 <math>\leq 40m \Omega</math></p>
7.7	Vibration 振动	<p>Mate connector combination state of the welding circuit board as test samples the request in accordance with the following specification resistance to vibration test whether to produce discontinuous current determined during the experiment (off) phenomenon after the experiment measuring contact resistance</p> <p>组合状态下的连接器焊接电路板上作为实验样品，依照如下规格要求，进行耐震动实验，实验过程中确定是否产生不连续电流（断电）现象，实验过后测量接触电阻值</p> <p>Frequency (频率) :10-55-10 Hz/minute Amplitude (振幅) : 1.5mm p-p Direction (方向) : 1、 Axis of up and down 上下轴向 (Y轴) 2、 Axis of right the left 左右轴向 (X轴) 3、 Axis of front and back 前后轴向 (Z轴)</p> <p>Period (周期) : 2hour for each direction 每一个轴向持续2小时</p>	<p>Appearance: No damage 外观: 无损伤</p> <p>Contact Resistance <math>\leq 40m \Omega</math> 接触电阻 <math>\leq 40m \Omega</math></p> <p>Current Discontinuity I micro second Max 电流中断: 1 <math>\mu</math> sec Max</p>



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8、 Endurance Characteristics:

环境性能

No. 序号	Item 项目	Test mode 试验方法	Requirement 技术要求
8.1	Thermal Aging 高温老化实验	<p>Connector combination condition is placed in the accordance with the following specifications high temperature aging test after the test and measurement of contact resistance</p> <p>组合状态下的连接器放置与加热烤箱中，依照如下规格要求，进行高温老化实验，试验后并测量接触电阻值</p> <p>Temperature: 85± 2℃ Period: 96 hours continuously 温度: 85±2℃ 周期: 持续96小时</p>	<p>Appearance: No damage 外观: 无损伤</p> <p>Contact Resistance ≤40m Ω 接触电阻 ≤40m Ω</p>
8.2	Temperature 温升	<p>Mate connector measure the temperature rise of contact when the maximum rated current is passed</p> <p>组舍状态下的连接器，通过最大容许电流测量导体温度上升值</p>	30℃ Max



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8、 Endurance Characteristics:

环境性能

No. 序号	Item 项目	Test mode 试验方法	Requirement 技术要求
8.3	Humidity 恒定潮湿	<p>Connector combination under the condition of constant temperature of the following specifications constant temperature and humidity test after the experiment measuring contact resistance insulation resistance and withstand voltage test</p> <p>组合状态下的连接器放置恒定温度的湿气空间，依照如下规格要求，进行恒温恒湿实验，实验过后测量接触电阻、绝缘电阻以及耐电压测试</p> <p>Temperature: 40±2 °C (温度: 40±2 °C) Relative humidity: 90-95% (RH 相对湿度: 90-95%) Period: 96 hours continuously (周期: 持续96小时)</p>	<p>Appearance: No damage 外观: 无损伤</p> <p>Contact Resistance ≤40m Ω 接触电阻 ≤40m Ω</p> <p>Insulation Resistance ≥1000 MΩ</p> <p>No breakdown or flashover 无击穿或者产生火</p>
8.4	Temperature cycling 温度循环	<p>The combined state of connectors as test samples in accordance with the requirements of the following specifications thermal shock test after the test measuring contact resistance insulation resistance and resistance to voltage</p> <p>组合状态下的连接器作为实验样品，依照如下规格要求进行冷热冲击实验，试验后测量接触电阻、绝缘电阻、以及耐电压测试</p> <p>One cycle consists of -40±3 °C 30min, room temp 10-15min 105±3 °C 30min, room temp 10-15min Total cycle :5cycle -40±3°C 30分钟，放置转换时间10-15分钟 105±3°C 30分钟，放置转换时间10-15分钟 钟循环次数: 5次</p>	<p>Same as paragraph 8.3 同8.3章节</p>



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8、 Endurance Characteristics:

环境性能

No. 序号	Item 项目	Test mode 试验方法	Requirement 技术要求
8.5	Salt spray 盐雾	<p>The combined state of connector as test samples salt spray test according to the following specifications test samples will be clean again with the water to dry naturally measurement of contact resistance</p> <p>组合状态下的连接器作为实验样品，依照如下规格要求进行盐水喷雾实验，实验后将样品用清水冲干净自然晾干，测量接触电阻值</p> <p>Temperature : 35 ±3 °C Solution: 5± 1 % Period: Stamping after tin plated for 8 hours Stamping before tin plated for 24 hours</p> <p>温度： 35±3 °C 浓度： 5±1% 周期： 先电镀后冲压8 小时 先冲压后电镀24 小时</p>	<p>Appearance: No damage 外观：无损伤</p> <p>Contact Resistance ≤40m Ω 接触电阻 ≤40m Ω</p>
8.6	Solder ability 可焊性	<p>In accordance with the following specifications were placed tin soldering test</p> <p>放置锡炉中依照如下规格进行焊锡实验</p> <p>Solder temperature : 260 ± 3° C Immersion period: 3 ± 0.5S 焊锡温度： 260±3° C 沉浸周期： 3±0.5S</p>	<p>Area of soldering: ≥90 % 焊锡面积： ≥90 %</p>



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8、 Endurance Characteristics:

环境性能

No. 序号	Item 项目	Test mode 试验方法	Requirement 技术要求
8.7.1	Resistance to soldering heat 耐焊接热	<p>anual soldering tin process Soldering time: 3±0.5S Soldering pot: 350±5℃ 手工烙铁焊锡工艺 焊接时间: 3±0.5S 焊接温度: 350±5℃</p> <p>Mode of operation: 操作方式: Position DIP type needle solder conducto or a fixed piece at the end of the 1.5mm distance DIP型针座焊锡位置, 距离导体或固定片末端1.5mm</p> <p>Position SMT type needle solder, conductor or a fixed piece at the end of the 0.5mm distance SMT 型针座焊锡位置, 距离导体或固定片末端0.5mm</p> <p>Wave soldering tin soldering process Soldering time : 3± 0.5S Soldering pot: 260 ± 3 ° C 波峰焊焊锡工艺 焊接时间: 3±0.5S 焊接温度: 260±3℃</p>	<p>Appearance: No damage 外观: 无损伤</p>



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8、 Endurance Characteristics:

环境性能

No. 序号	Item 项目	Test mode 试验方法	Requirement 技术要求
8.7.2	Resistance to soldering heat 耐焊接热	Reflow soldering process Soldering time 5~10 S Max. Soldering pot: 255 ± 5°C 回流焊锡工艺 焊接时间: 5~10S最大 焊接温度: 255±5° C  Please refer to the 9.1 solder reflow temperature curve 回流焊请参考9.1温度曲线图	Appearance: No damage  外观: 无损伤



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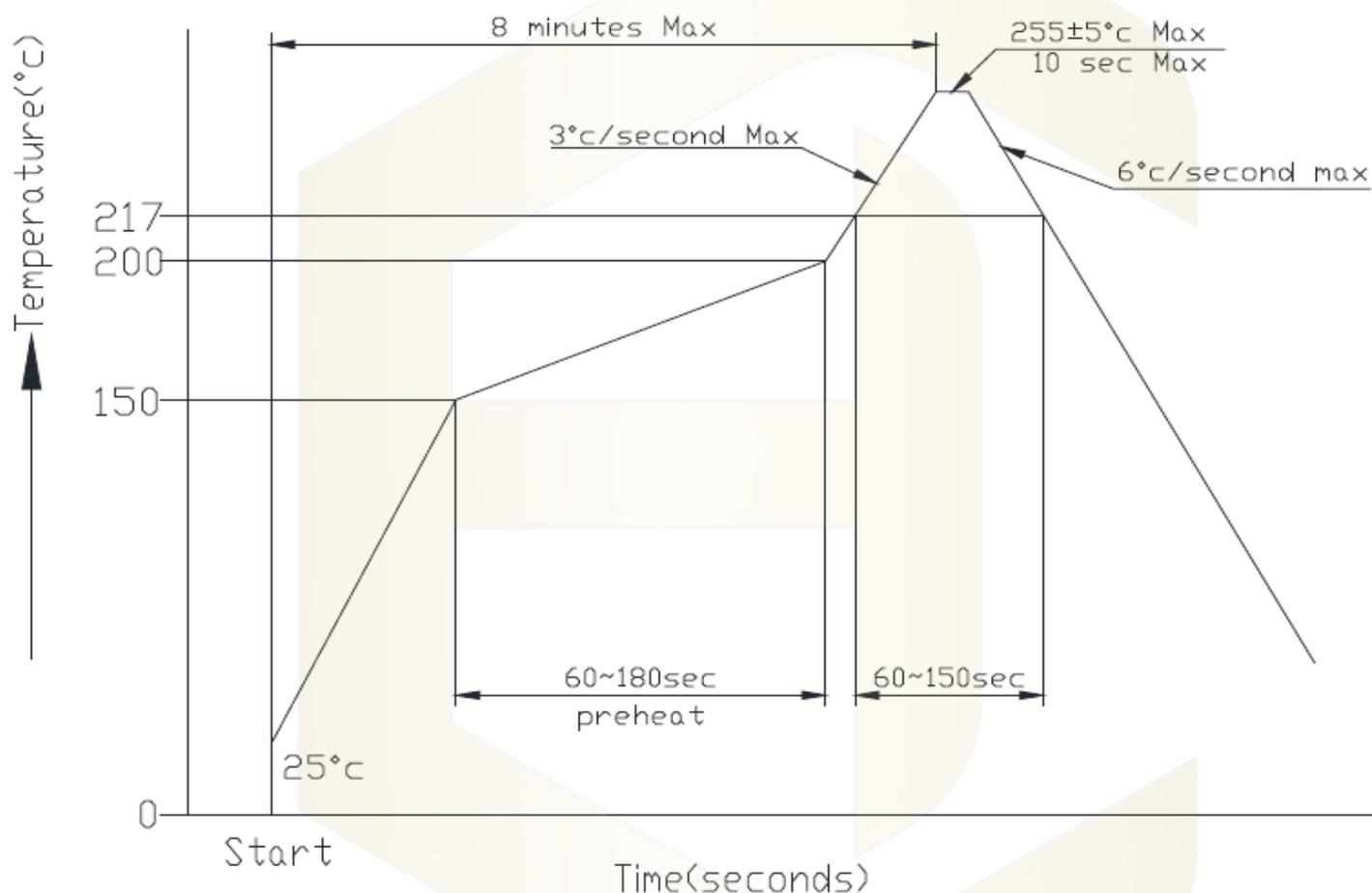
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### 9、The reflow temperature curve

回流焊温度曲线

#### 9.1 SMT lead-free process temperature curve

SMT无铅工艺温度曲线



### 10、Caution

注意事项

10.1 plastic because of characteristics with water after package is opened should avoid exposure to the temperature is higher than 30°C , humidity is higher than 60% RH in the environment, and in the 24 hours after all after use , to prevent subsequent reflow wave soldering process to produce foaming phenomenon of deformation

塑料因具有吸水之特性包装拆封后应避免暴露于, 高温于 30°C, 湿度高于 60%RH 的环境中, 并在封后24小时内全数使用完毕, 防止后续回流焊、波峰焊制程产生起泡变形现象



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## 11、Packaging Transportation Storage

包装、运输、储存

### 11.1 Packaging

包装

(1) Terminal within the Packaging for disc loading material Packaging plastic shell packaging for plastic has seat plates tubes mounted (paste) into the certificate indicate the product name specifications quantity production date and other information  
端子内包装为盘装带料包装、胶壳内包装为塑料带，针座包装为盘装，袋装，(贴)装入合格证，注明产品名称、规格型号、数量、出货日期等信息。

(2) Exterior package is carton facing the packing list the packing list marked with product name specification model quantity date of dispatch  
外包装为纸箱，贴装箱单，装箱单上注明产品名称、规格型号、数量、出货日期

(3) The product in the box must not rock  
产品在箱内不晃动

### 11.2 Transportation

运输

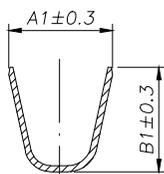
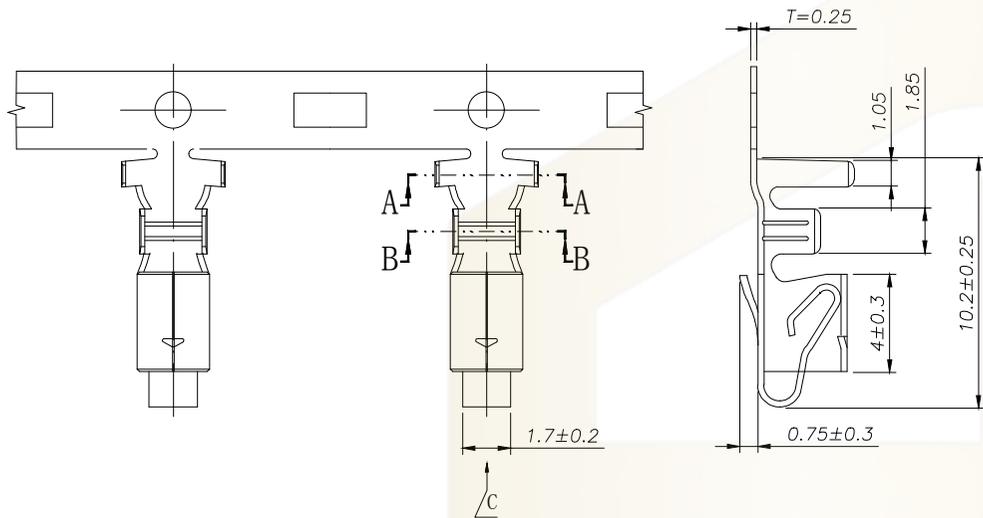
Any vehicle can be adopted for the transportation but moisture-proof and no mechanical damage Transport temperature to 10 °C ~+50 °C  
允许用任何方式运输，但须避免雨雪直淋和阳光照射。不能有碰撞和挤压等机械损伤，运输环境温度为10 °C~+50 °C

### 11.3 Storage

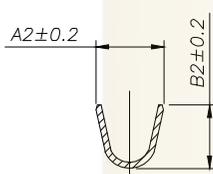
贮存

(1) The connector of packing finished should be in the ambient temperature between 10°C ~ +40°C relative humidity 50% ~ 80 % to store in storehouse air and other corrosive gas in the ambient air  
包装完毕的连接器的应在环境温度为10°C ~ +40°C，相对湿度50%~80%，周围空气中没有酸性，碱性及其它腐蚀性气体的库房中贮存

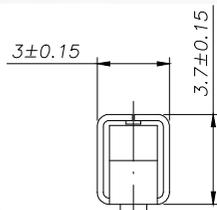
(2) Re-qualification test shall be conducted immediately while the storing duration exceed 6 mouths  
贮存期为6个月，超期6个月需从新检查



SECTION A-A



SECTION B-B



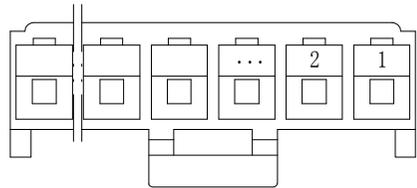
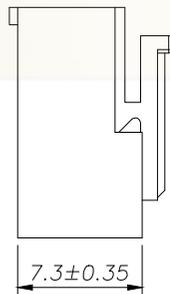
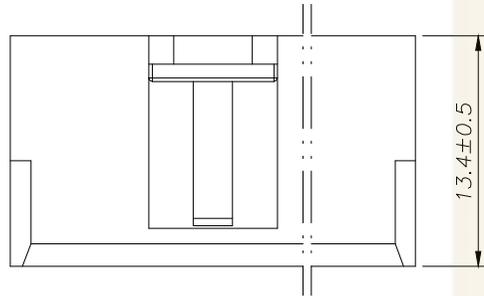
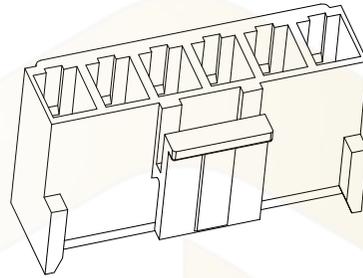
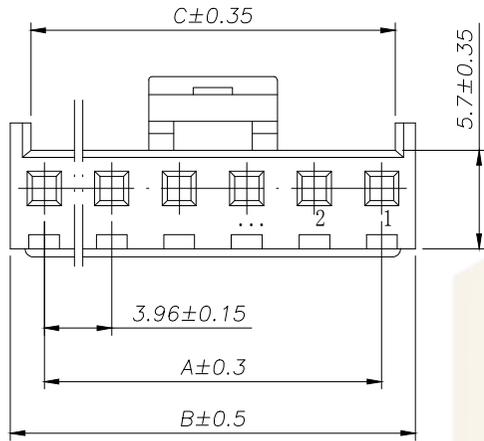
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SPECIFICATIONS

- 1、Current Rating: 7A AC, DC
- 2、Voltage Rating: 250V AC, DC
- 3、Temperatuer Range: -40°C~ +105°C
- 4、Contact Resistance: 20mΩ Max
- 5、Insulation Resistance: 1000mΩ Min
- 6、Withstanding Voltang: 1500V AC/minute
- 7、Material: Phosphoric bronze Tin-plated
- 8、Applicable Wire Sizes:AWG#16-24#

TYPE	Dimension mm				适用线规 AWG#	Qty/Reel
	A1	B1	A2	B2		
HC-VH-T-A (低脚)	2.3	2.3	2.0	1.8	24-22	3500 PCS
HC-VH-T-05	4.0	4.1	2.8	2.3	22-18	3500 PCS
HC-VH-T-B (高脚)	4.3	4.3	2.8	2.6	20-16	3500 PCS

		GENERAL TOLERANCE		制图 DRAWING	05		深圳市华灿天禄电子有限公司 ShenzhenhuacantianluELECTRONICS CO.,LTD			
		DIM TOL		审核 CHECK						
		X.X ±0.30		批准 APPROVAL			产品名称 TITLE	VH (3.96) 端子	版本 REV.	A
1		初版发行		比例 SCALE			产品料号 PART NO.	HC-VH-T	单位 UNITS	mm
序号 No.	变更内容 MODIFY CONTENT	日期 MODIFY DATE	Angle ±3.0°	投影 Projection			材料 MATERIAL		页次 SHEET	1/1

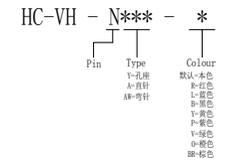


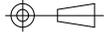
**SPECIFICATIONS**

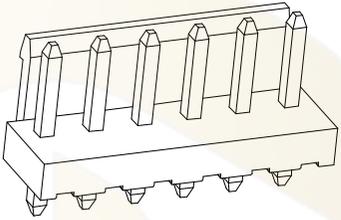
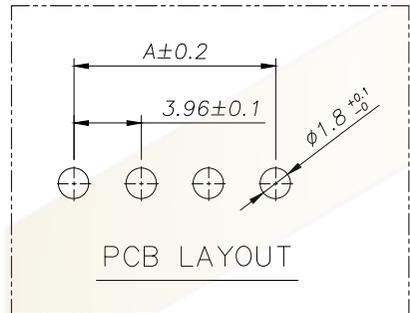
- 1、Current Rating: 7A AC, DC
- 2、Voltage Rating: 250V AC, DC
- 3、Temperatuer Range: -40℃~ +105℃
- 4、Contact Resistance: 20mΩ Max
- 5、Insulation Resistance: 1000mΩ Min
- 6、Withstanding Voltang: 1500V AC/minute
- 7、Material: Housing Nylon66 UL94-V0(2)

Circuit	Part NO.	Dimensions mm		
		A	B	C
2	HC-VH-2Y	3.96	7.92	5.52
3	HC-VH-3Y	7.92	11.88	9.48
4	HC-VH-4Y	11.88	15.84	13.44
5	HC-VH-5Y	15.84	19.80	17.40
6	HC-VH-6Y	19.80	23.76	21.36
7	HC-VH-7Y	23.76	27.72	25.32
8	HC-VH-8Y	27.72	31.68	29.28
9	HC-VH-9Y	31.68	35.64	33.24
10	HC-VH-10Y	35.64	39.60	37.20
11	HC-VH-11Y	39.60	43.56	41.16
12	HC-VH-12Y	43.56	47.52	45.12
13	HC-VH-13Y	47.52	51.48	49.08
14	HC-VH-14Y	51.48	55.44	53.04
15	HC-VH-15Y	55.44	59.40	57.00

**Ordering Information**



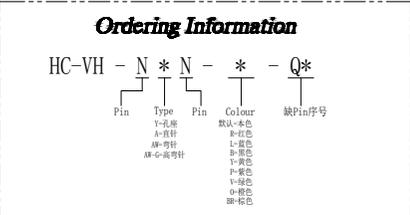
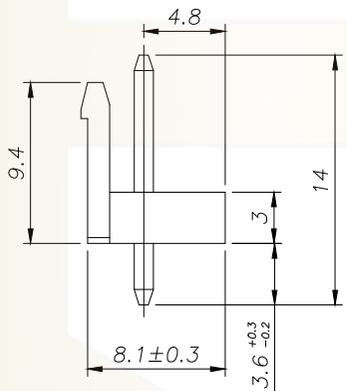
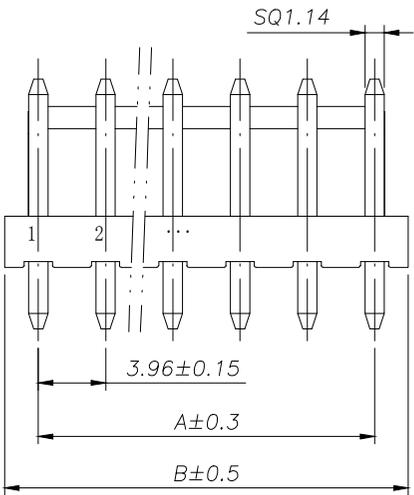
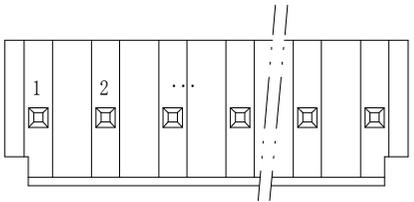
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			DIM TOL	审核 CHECK					
			X.X ±0.30	批准 APPROVAL		产品料号 PART NO.	HC-VH-NY	单位 UNITS	mm
1	初版发行		X.XX ±0.20	比例 SCALE		材料 MATERIAL		页次 SHEET	1/1
序号 No.	变更内容 MODIFY CONTENT	日期 MODIFY DATE	X.XXX ±0.10	投影 Projection					
			Angle ±3.0°						



**SPECIFICATIONS**

- 1, Current Rating: 7A AC, DC
- 2, Voltage Rating: 250V AC, DC
- 3, Temperatuer Range: -40°C ~ +105°C
- 4, Contact Resistance: 20mΩ Max
- 5, Insulation Resistance: 1000mΩ Min
- 6, Withstanding Voltang: 1500V AC/minute
- 7, Material: Wafer Nylon66 UL94-V0(2)  
PIN Brass Tin-plated

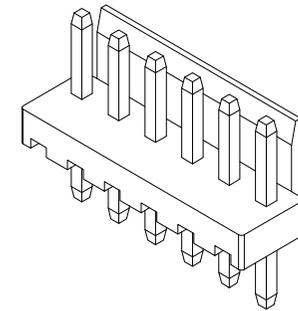
Circuit	Part NO.	Dimensions mm	
		A	B
2	HC-VH-2A2	3.96	7.92
3	HC-VH-3A2/ HC-VH-3A3	7.92	11.88
4	HC-VH-4A4	11.88	15.84
5	HC-VH-5A5	15.84	19.80
6	HC-VH-6A6	19.80	23.76
7	HC-VH-7A7	23.76	27.72
8	HC-VH-8A8	27.72	31.68
9	HC-VH-9A9	31.68	35.64
10	HC-VH-10A10	35.64	39.60
11	HC-VH-11A11	39.60	43.56
12	HC-VH-12A12	43.56	47.52
13	HC-VH-13A13	47.52	51.48
14	HC-VH-14A14	51.48	55.44
15	HC-VH-15A15	55.44	59.40



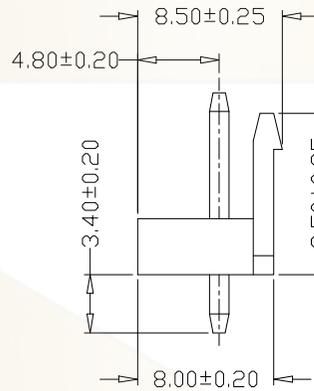
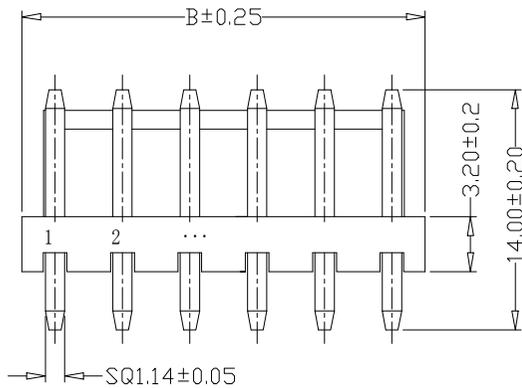
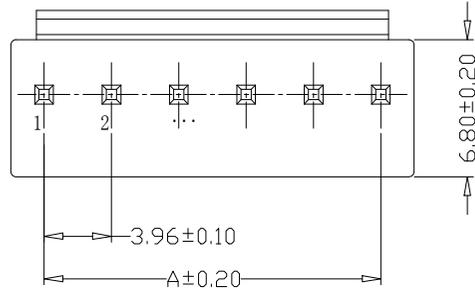
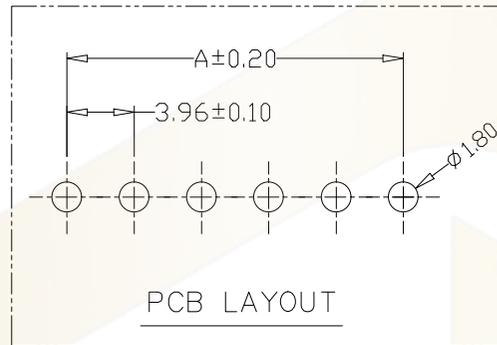
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			DIM TOL	审核 CHECK		产品名称 TITLE	VH (3.96)单排 直针	版本 REV.	A
			X.X ±0.30	批准 APPROVAL		产品料号 PART NO.	HC-VH-NAN	单位 UNITS	mm
1	初版发行		X.XX ±0.20	比例 SCALE		材料 MATERIAL		页次 SHEET	1/1
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			Angle ±3.0°						

SPECIFICATIONS

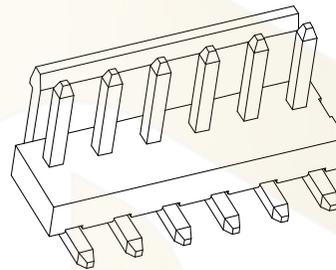
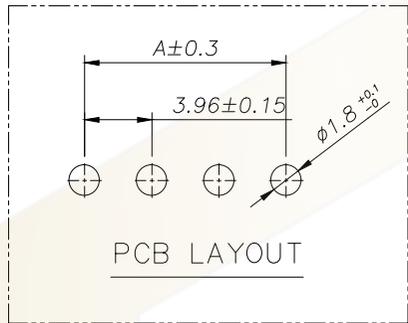
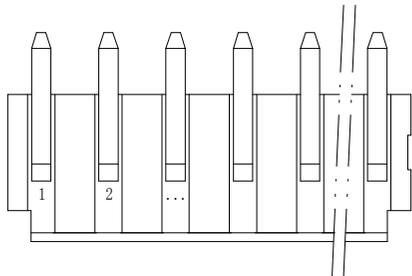
- 1、Current Rating: 7A AC, DC
- 2、Voltage Rating: 250V AC, DC
- 3、Temperatuer Range: -40°C ~ +105°C
- 4、Contact Resistance: 20mΩ Max
- 5、Insulation Resistance: 1000mΩ Min
- 6、Withstanding Voltang: 1500V AC/minute
- 7、Material: Wafer Nylon66 UL94-V0(2)  
PIN Brass Tin-plated



Circuit	Part NO.	Dimensions mm	
		A	B
2	HC-VH-2A2-M	3.96	7.92
3	HC-VH-3A2-M/ HC-VH-3A3-M	7.92	11.88
4	HC-VH-4A4-M	11.88	15.84
5	HC-VH-5A5-M	15.84	19.80
6	HC-VH-6A6-M	19.80	23.76
7	HC-VH-7A7-M	23.76	27.72
8	HC-VH-8A8-M	27.72	31.68
9	HC-VH-9A9-M	31.68	35.64
10	HC-VH-10A10-M	35.64	39.60
11	HC-VH-11A11-M	39.60	43.56
12	HC-VH-12A12-M	43.56	47.52



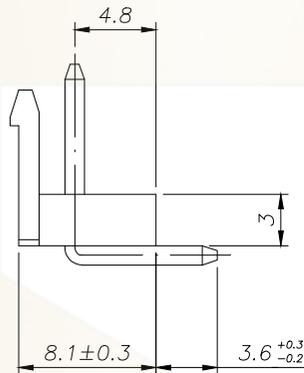
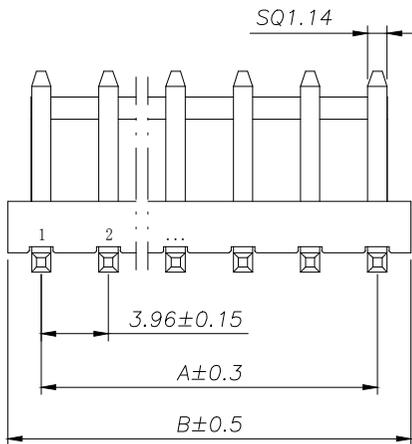
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		DIM TOL	审核 CHECK					
		X.X ±0.30	批准 APPROVAL		产品名称 TITLE	VH (3.96)单排 直针	版本 REV.	A
		X.XX ±0.20	比例 SCALE		产品料号 PART NO.	HC-VH-NAN-M	单位 UNITS	mm
		X.XXX ±0.10	投影 Projection		材料 MATERIAL		页次 SHEET	1/1
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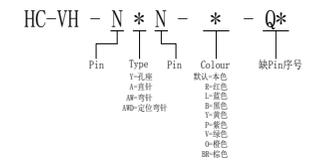
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- 1、Current Rating: 7A AC, DC
- 2、Voltage Rating: 250V AC, DC
- 3、Temperatuer Range: -40°C ~ +105°C
- 4、Contact Resistance: 20mΩ Max
- 5、Insulation Resistance: 1000mΩ Min
- 6、Withstanding Voltang: 1500V AC/minute
- 7、Material: Wafer Nylon66 UL94-V0(2)  
PIN Brass Tin-plated

Circuit	Part NO.	Dimensions mm	
		A	B
2	HC-VH-2A2W	3.96	7.92
3	HC-VH-3A2W/ HC-VH-3A3W	7.92	11.88
4	HC-VH-4A4W	11.88	15.84
5	HC-VH-5A5W	15.84	19.80
6	HC-VH-6A6W	19.80	23.76
7	HC-VH-7A7W	23.76	27.72
8	HC-VH-8A8W	27.72	31.68
9	HC-VH-9A9W	31.68	35.64
10	HC-VH-10A10W	35.64	39.60
11	HC-VH-11A11W	39.60	43.56
12	HC-VH-12A12W	43.56	47.52
13	HC-VH-13A13W	47.52	51.48
14	HC-VH-14A14W	51.48	55.44
15	HC-VH-15A15W	55.44	59.40



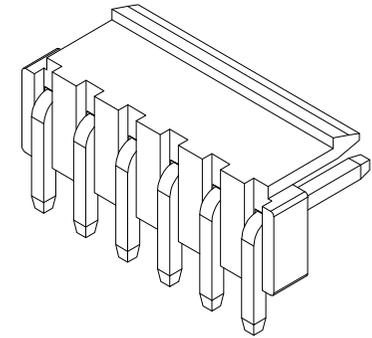
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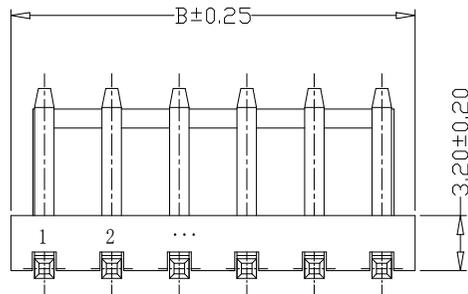
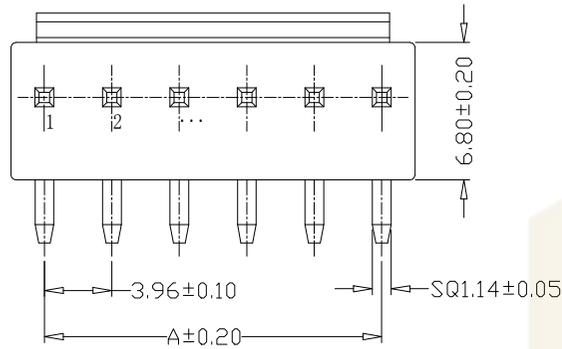
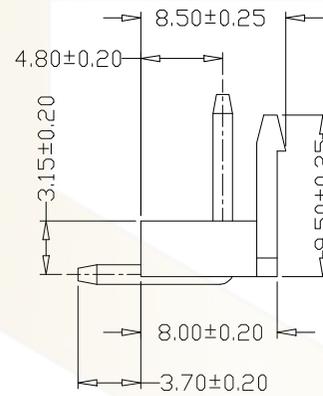
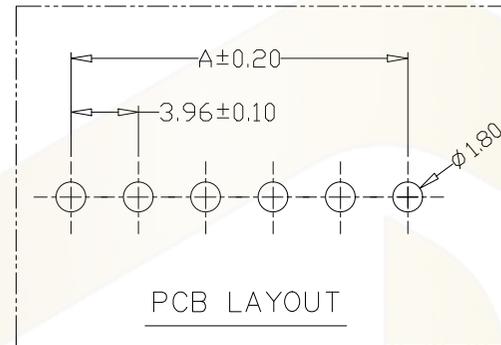
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			X.X ±0.30	批准 APPROVAL	产品料号 PART NO.	HC-VH-NANW	单位 UNITS	mm
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序号 No.	变更内容 MODIFY CONTENT	日期 MODIFY DATE	X.XXX ±0.10	投影 Projection				
			Angle ±3.0°					

SPECIFICATIONS

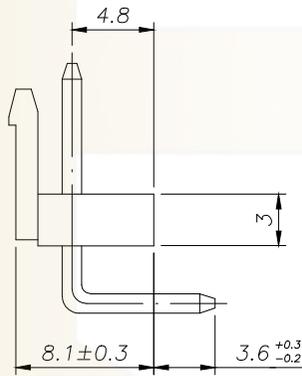
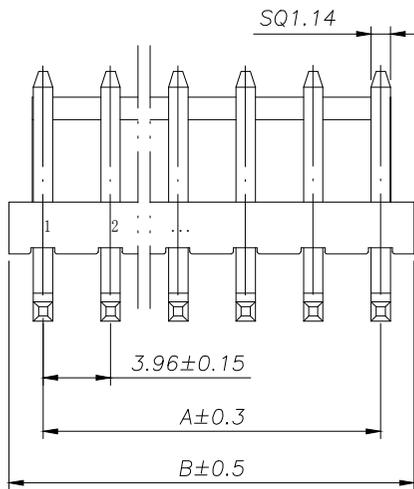
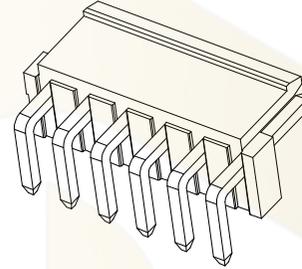
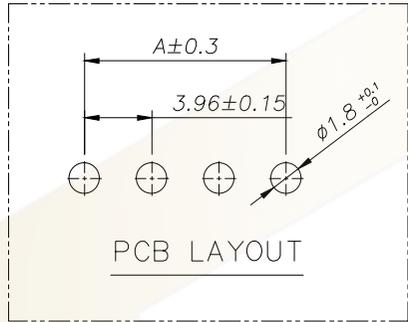
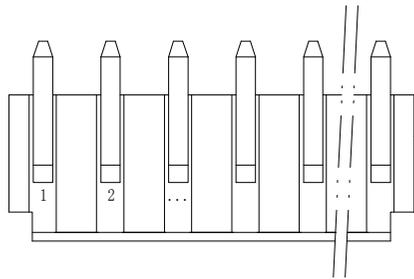
- 1、Current Rating: 7A AC, DC
- 2、Voltage Rating: 250V AC, DC
- 3、Temperatuer Range: -40°C~ +105°C
- 4、Contact Resistance: 20mΩ Max
- 5、Insulation Resistance: 1000mΩ Min
- 6、Withstanding Voltang: 1500V AC/minute
- 7、Material: Wafer Nylon66 UL94-V0(2)  
PIN Brass Tin-plated



Circuit	Part NO.	Dimensions mm	
		A	B
2	HC-VH-2A2W-M	3.96	7.92
3	HC-VH-3A2W-M/ HC-VH-3A3W-M	7.92	11.88
4	HC-VH-4A4W-M	11.88	15.84
5	HC-VH-5A5W-M	15.84	19.80
6	HC-VH-6A6W-M	19.80	23.76
7	HC-VH-7A7W-M	23.76	27.72
8	HC-VH-8A8W-M	27.72	31.68
9	HC-VH-9A9W-M	31.68	35.64
10	HC-VH-10A10W-M	35.64	39.60
11	HC-VH-11A11W-M	39.60	43.56
12	HC-VH-12A12W-M	43.56	47.52



		GENERAL TOLERANCE	制图 DRAWING	02	深圳市华灿天禄电子有限公司 ShenzhenhuacantianluELECTRONICS CO.,LTD			
		DIM TOL	审核 CHECK					
		X.X ±0.30	批准 APPROVAL		产品名称 TITLE	VH (3.96)单排 平弯针	版本 REV.	A
1 初版发行		X.XX ±0.20	比例 SCALE		产品料号 PART NO.	HC-VH-NANW-M	单位 UNITS	mm
序号 No.	变更内容 MODIFY CONTENT	日期 MODIFY DATE	Angle ±3.0°	投影 Projection		材料 MATERIAL	页次 SHEET	1/1

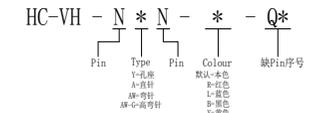


**SPECIFICATIONS**

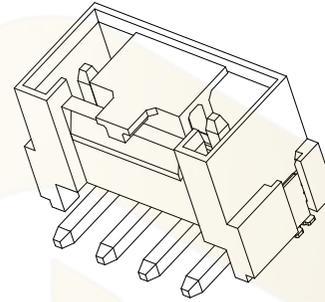
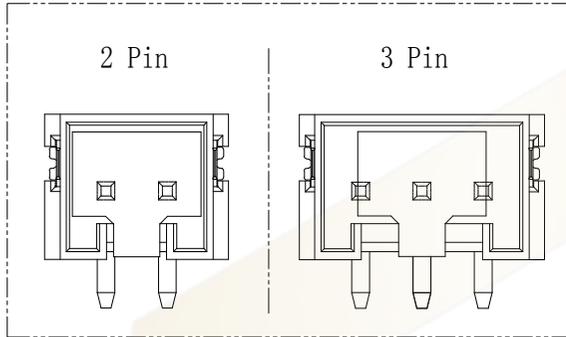
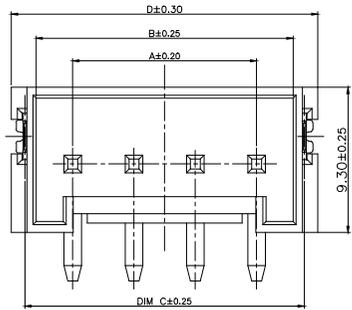
- 1、Current Rating: 7A AC, DC
- 2、Voltage Rating: 250V AC, DC
- 3、Temperatuer Range: -40°C ~ +105°C
- 4、Contact Resistance: 20mΩ Max
- 5、Insulation Resistance: 1000mΩ Min
- 6、Withstanding Voltang: 1500V AC/minute
- 7、Material: Wafer Nylon66 UL94-V0(2)  
PIN Brass Tin-plated

Circuit	Part NO.	Dimensions mm	
		A	B
2	HC-VH-2A2W-G	3.96	7.92
3	HC-VH-3A2W-G/ HC-VH-3A3W-G	7.92	11.88
4	HC-VH-4A4W-G	11.88	15.84
5	HC-VH-5A5W-G	15.84	19.80
6	HC-VH-6A6W-G	19.80	23.76
7	HC-VH-7A7W-G	23.76	27.72
8	HC-VH-8A8W-G	27.72	31.68
9	HC-VH-9A9W-G	31.68	35.64
10	HC-VH-10A10W-G	35.64	39.60
11	HC-VH-11A11W-G	39.60	43.56
12	HC-VH-12A12W-G	43.56	47.52
13	HC-VH-13A13W-G	47.52	51.48
14	HC-VH-14A14W-G	51.48	55.44
15	HC-VH-15A15W-G	55.44	59.40

**Ordering Information**

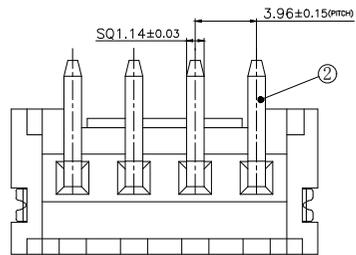
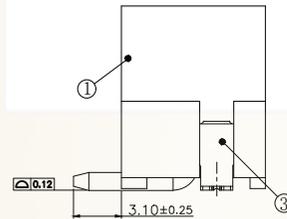
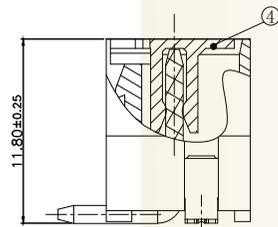
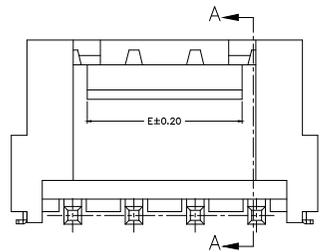


		GENERAL TOLERANCE	制图 DRAWING	05	深圳市华灿天禄电子有限公司 ShenzhenhuacantianluELECTRONICS CO., LTD			
		DIM TOL	审核 CHECK					
		X.X ±0.30	批准 APPROVAL		产品名称 TITLE	VH (3.96)单排 高弯针	版本 REV.	A
		X.XX ±0.20	比例 SCALE		产品料号 PART NO.	HC-VH-NANW-G	单位 UNITS	mm
1	初版发行	X.XXX ±0.10	投影 Projection		材料 MATERIAL		页次 SHEET	1/1
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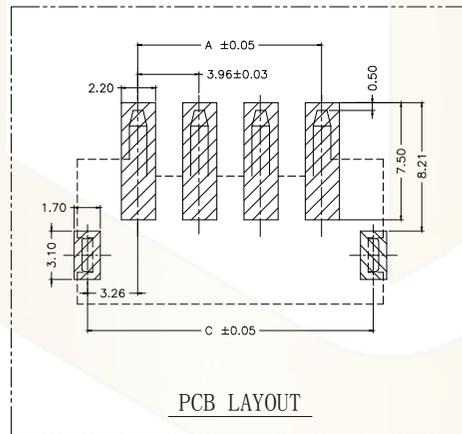


**SPECIFICATIONS**

- 1, Current Rating: 7A AC, DC
- 2, Voltage Rating: 250V AC, DC
- 3, Temperatuer Range: -40°C ~ +105°C
- 4, Contact Resistance: 20mΩ Max
- 5, Insulation Resistance: 1000mΩ Min
- 6, Withstanding Voltang: 1500V AC/minute
- 7, Material: Wafer LCP UL94-V0  
PIN Brass Tin-plated



SECTION A-A



PCB LAYOUT

Circuit	Part NO.	Dimensions mm				
		A	B	C	D	E
2	HC-VH-2ALT	3.96	8.68	10.18	11.84	3.88
3	HC-VH-3ALT	7.92	12.64	14.14	15.80	7.84
4	HC-VH-4ALT	11.88	16.60	18.10	19.76	10.00
5	HC-VH-5ALT	15.84	20.56	22.06	23.72	
6	HC-VH-6ALT	19.80	24.52	26.02	27.68	
7	HC-VH-7ALT	23.76	28.48	29.98	31.64	
8	HC-VH-8ALT	27.72	32.44	33.94	35.60	
9	HC-VH-9ALT	31.68	36.40	37.90	39.56	
10	HC-VH-10ALT	35.64	40.36	41.86	43.52	
11	HC-VH-11ALT	39.60	44.32	45.82	47.48	
12	HC-VH-12ALT	43.56	48.28	49.78	51.44	
13	HC-VH-13ALT	47.52	52.24	53.74	55.40	
14	HC-VH-14ALT	51.48	56.20	57.70	59.36	
15	HC-VH-15ALT	55.44	60.16	61.66	63.32	

**Ordering Information**

HC-VH - N\*\*\* - \*

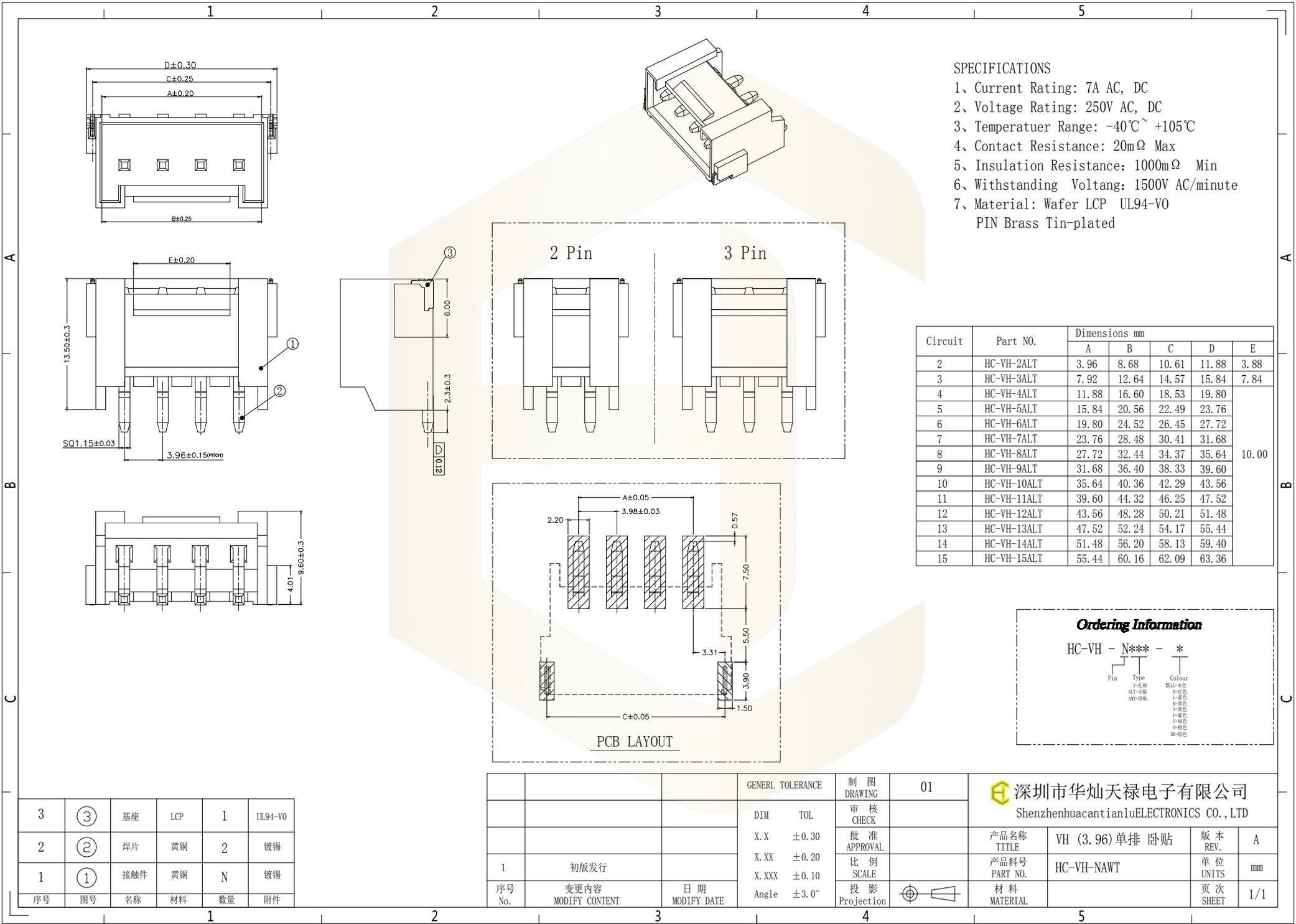
Pin Type Colour  
 Y-孔座 默认-本色  
 ALT-立贴 粉红色  
 WTV-弯插 蓝色  
 B-黑色  
 P-紫色  
 Y-黄色  
 O-橙色  
 BB-棕色

3	③	基座	LCP	1	UL94-V0
2	②	焊片	黄铜	2	镀锡
1	①	接触件	黄铜	N	镀锡
序号	图号	名称	材料	数量	附件

1	初版发行	日期
序号 No.	变更内容 MODIFY CONTENT	日期 MODIFY DATE

GENERAL TOLERANCE	制图 DRAWING	01
DIM TOL	审核 CHECK	
X.X ±0.30	批准 APPROVAL	
X.XX ±0.20	比例 SCALE	
X.XXX ±0.10	投影 Projection	
Angle ±3.0°		

深圳市华灿天禄电子有限公司 ShenzhenhuacantianluELECTRONICS CO.,LTD			
产品名称 TITLE	VH (3.96)单排 立贴	版本 REV.	A
产品料号 PART NO.	HC-VH-NALT	单位 UNITS	mm
材料 MATERIAL		页次 SHEET	1/1



- SPECIFICATIONS**
- 1, Current Rating: 7A AC, DC
  - 2, Voltage Rating: 250V AC, DC
  - 3, Temperatuer Range: -40°C ~ +105°C
  - 4, Contact Resistance: 20mΩ Max
  - 5, Insulation Resistance: 1000mΩ Min
  - 6, Withstanding Voltang: 1500V AC/minute
  - 7, Material: Wafer LCP UL94-V0  
PIN Brass Tin-plated

Circuit	Part NO.	Dimensions mm				
		A	B	C	D	E
2	HC-VH-2ALT	3.96	8.68	10.61	11.88	3.88
3	HC-VH-3ALT	7.92	12.64	14.57	15.84	7.84
4	HC-VH-4ALT	11.88	16.60	18.53	19.80	10.00
5	HC-VH-5ALT	15.84	20.56	22.49	23.76	
6	HC-VH-6ALT	19.80	24.52	26.45	27.72	
7	HC-VH-7ALT	23.76	28.48	30.41	31.68	
8	HC-VH-8ALT	27.72	32.44	34.37	35.64	
9	HC-VH-9ALT	31.68	36.40	38.33	39.60	
10	HC-VH-10ALT	35.64	40.36	42.29	43.56	
11	HC-VH-11ALT	39.60	44.32	46.25	47.52	
12	HC-VH-12ALT	43.56	48.28	50.21	51.48	
13	HC-VH-13ALT	47.52	52.24	54.17	55.44	
14	HC-VH-14ALT	51.48	56.20	58.13	59.40	
15	HC-VH-15ALT	55.44	60.16	62.09	63.36	

**Ordering Information**

HC-VH - N\*\*\* - \*

Pin Type Colour  
 Y-孔座 默认-本色  
 ALT-立座 红棕色  
 WY-弯脚 L-棕色  
 B-黑色  
 Y-黄色  
 P-紫色  
 V-绿色  
 O-橙色  
 BR-棕色

序号	图号	名称	材料	数量	附件
3	③	基座	LCP	1	UL94-V0
2	②	焊片	黄铜	2	镀锡
1	①	接触件	黄铜	N	镀锡

序号 No.	变更内容 MODIFY CONTENT	日期 MODIFY DATE
1	初版发行	

GENERAL TOLERANCE	制图 DRAWING	01
DIM TOL	审核 CHECK	
X.X ±0.30	批准 APPROVAL	
X.XX ±0.20	比例 SCALE	
X.XXX ±0.10	投影 Projection	
Angle ±3.0°		

深圳市华灿天禄电子有限公司 Shenzhenhuacantianlu ELECTRONICS CO., LTD			
产品名称 TITLE	VH (3.96)单排 卧贴	版本 REV.	A
产品料号 PART NO.	HC-VH-NAWT	单位 UNITS	mm
材料 MATERIAL		页次 SHEET	1/1