



# 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: ZH (1.50) 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



#### 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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TITLE: 1.5MM PITCH ZH CONNECTOR DOUBLE ROW TYPE

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

RELEASE DATE: 2019/7/25

REVISION: A

ECN No. :

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## 1、Scope

### 适用范围

The contents of specifications for 1.50 series connector strip including product performance, test methods and inspection requirements

本规格书内容适用于 1.50 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 #26~#32  
适用线规: AWG #26~#32
- 3.3 Applicable PC board thickness: 0.6~1.6mm  
适用PC板厚度: 0.6~1.6mm

## 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0.2mm	Tin plating 镀锡	ROHS
5.2	Terminal 端子-PT	Contact 插簧	Phosphor bronze 锡青磷铜厚0.2mm	Tin plating 镀锡	
5.3	Housing 孔座-Y	Plastic 塑壳	Nylon66 UL94V-0 (2)	Color: Nature 颜色: 本色	
5.4	Housing 孔座-EY	Plastic 塑壳	Nylon66 UL94V-0 (2)	Color: Nature 颜色: 本色	
5.5	Wafer 针座-A	Plastic 塑壳	Nylon46 UL94V-0(2)	Color: Nature 颜色: 本色	
		Contact 插针	Brass 黄铜 厚 0.5mm	Tin plating 镀锡	
5.6	Wafer 针座-AW	Plastic 塑壳	Nylon46 UL94V-0(2)	Color: Nature 颜色: 本色	
		Contact 插针	Brass 黄铜 厚 0.5mm	Tin plating 镀锡	
5.7	Wafer 针座-PWT	Plastic 塑壳	LCP UL94V-0	Color: Nature 颜色: 本色	
		Contact 插针	Brass 黄铜 厚 0.50mm	Tin plating 镀锡	
		Solder tab 焊护耳	Brass 黄铜	Tin plating 镀锡	
5.8	Wafer 针座-PLT	Plastic 塑壳	LCP UL94V-0	Color: Nature 颜色: 本色	
		Contact 插针	Brass 黄铜 厚 0.50mm	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		1A AC DC
6.2	Voltage Rated 额定电压		50V 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 500V 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200V 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 500 M Ω</p> <p>≥500M 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#26wire AWG#26导线 More than 20N ≥20N
			AWG#28wire AWG#28导线 More than 13N ≥13N
			AWG#30wire AWG#30导线 More than 8N ≥8N
			AWG#32wire AWG#32导线 More than 6N ≥6N
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 7N ≥7N
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 5N≤ 5N
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 0.5N ≥0.5N
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 7N ≥7N



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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 30m \Omega</math></p> <p>接触电阻 <math>\leq 30m \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 30m \Omega</math> 接触电阻 <math>\leq 30m \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 ≤30m Ω 接触电阻 ≤30m 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 ≤30m Ω 接触电阻 ≤30m Ω</p> <p>Insulation Resistance ≥500 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 ≤30m Ω 接触电阻 ≤30m 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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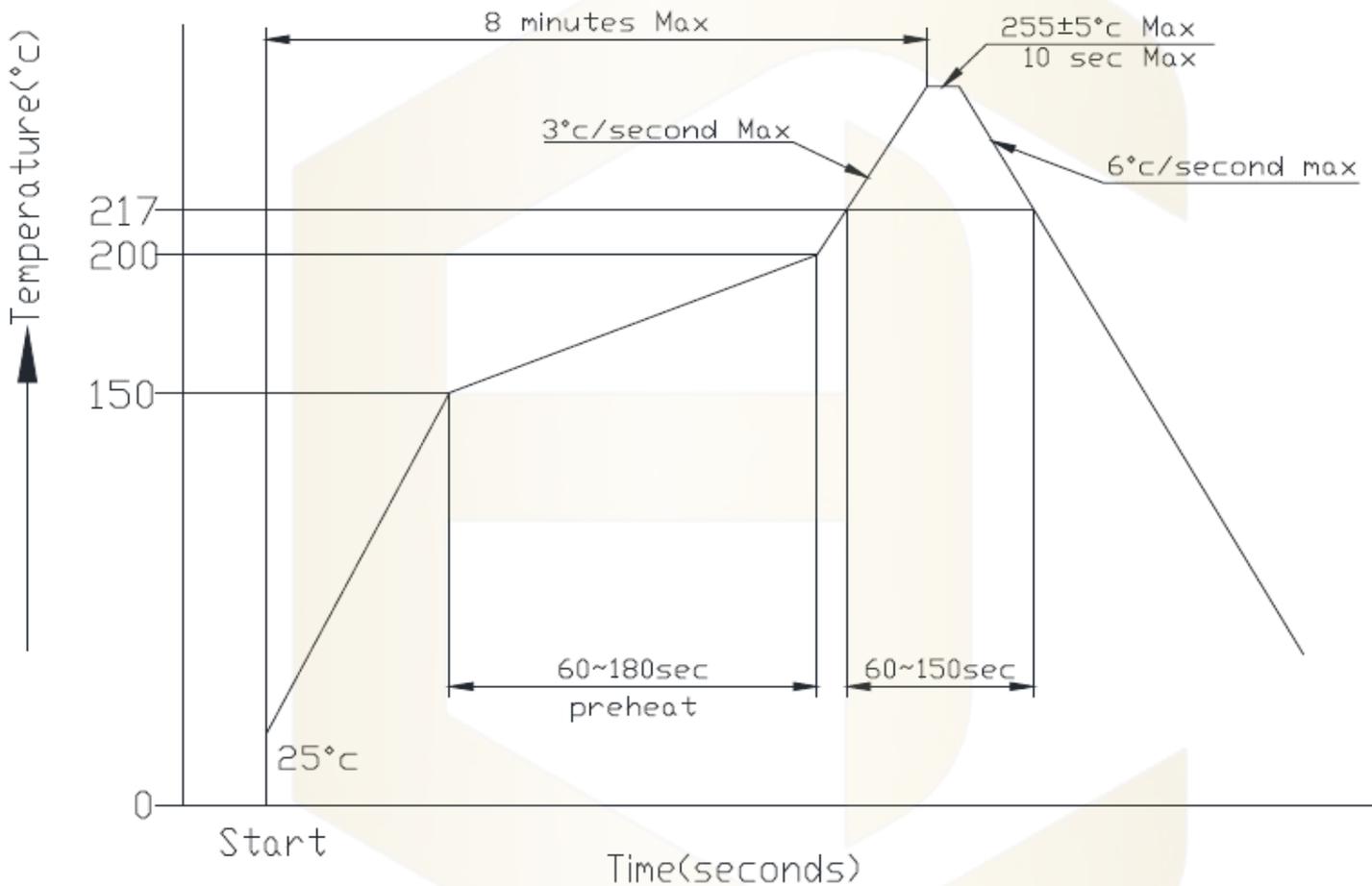
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## 9、The reflow temperature curve

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

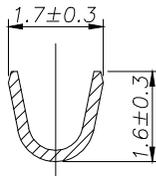
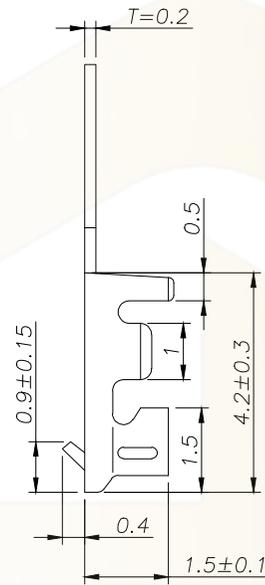
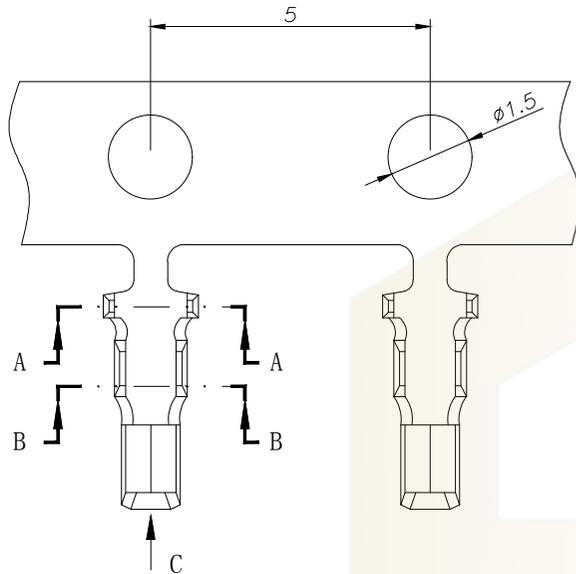
Any vehicle can be adopted for the transportation but moisture-proof and no mechanical damage Transport temperature to 10 °C ~+50 °C  
允许用任何方式运输，但须避免雨雪直淋和阳光照射。不能有碰撞和挤压等机械损伤，运输环境温度为10 °C~+50 °C

### 11.3 Storage

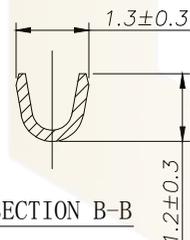
贮存

(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

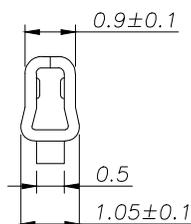
(2) Re-qualification test shall be conducted immediately while the storing duration exceed 6 mouths  
贮存期为6个月，超期6个月需从新检查



SECTION A-A



SECTION B-B

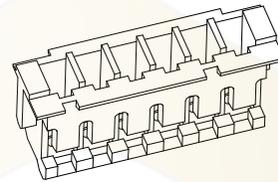
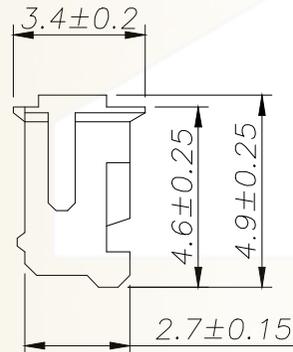
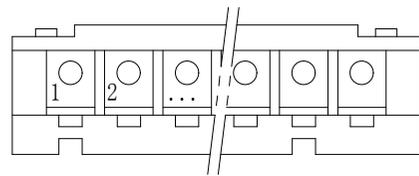
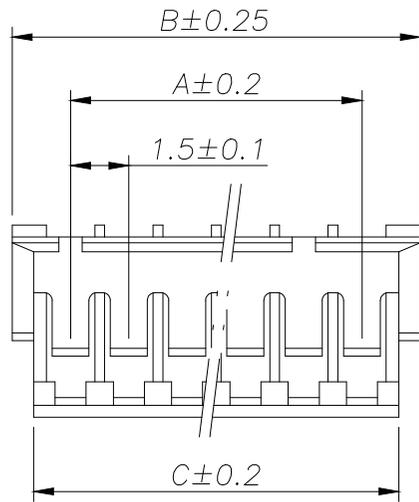


SECTION C-C

SPECIFICATIONS

- 1、Current Rating: 1A AC, DC
  - 2、Voltage Rating: 50V AC, DC
  - 3、Temperatuer Range: -40°C~ +105°C
  - 4、Contact Resistance: 20mΩ Max
  - 5、Insulation Resistance: 500MΩ Min
  - 6、Withstanding Voltang: 500V AC/minute
  - 7、Material: Phosphoric bronze Tin-plated
  - 8、Applicable Wire Sizes:AWG#26-32#
- Qty/Reel: 10000 PCS

			GENERAL TOLERANCE	制图 DRAWING	05			
			DIM TOL	审核 CHECK	深圳市华灿天禄电子有限公司 ShenzhenhuacantianluELECTRONICS CO.,LTD			
			X.X ±0.30	批准 APPROVAL	产品名称 TITLE	ZH (1.50) 端子	版本 REV.	A
1	初版发行		X.XX ±0.20	比例 SCALE	产品料号 PART NO.	HC-ZH-T	单位 UNITS	mm
序号 No.	变更内容 MODIFY CONTENT	日期 MODIFY DATE	X.XXX ±0.10	投影 Projection	材料 MATERIAL		页次 SHEET	1/1
			Angle ±3.0°					

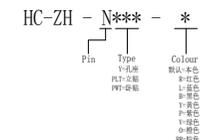


**SPECIFICATIONS**

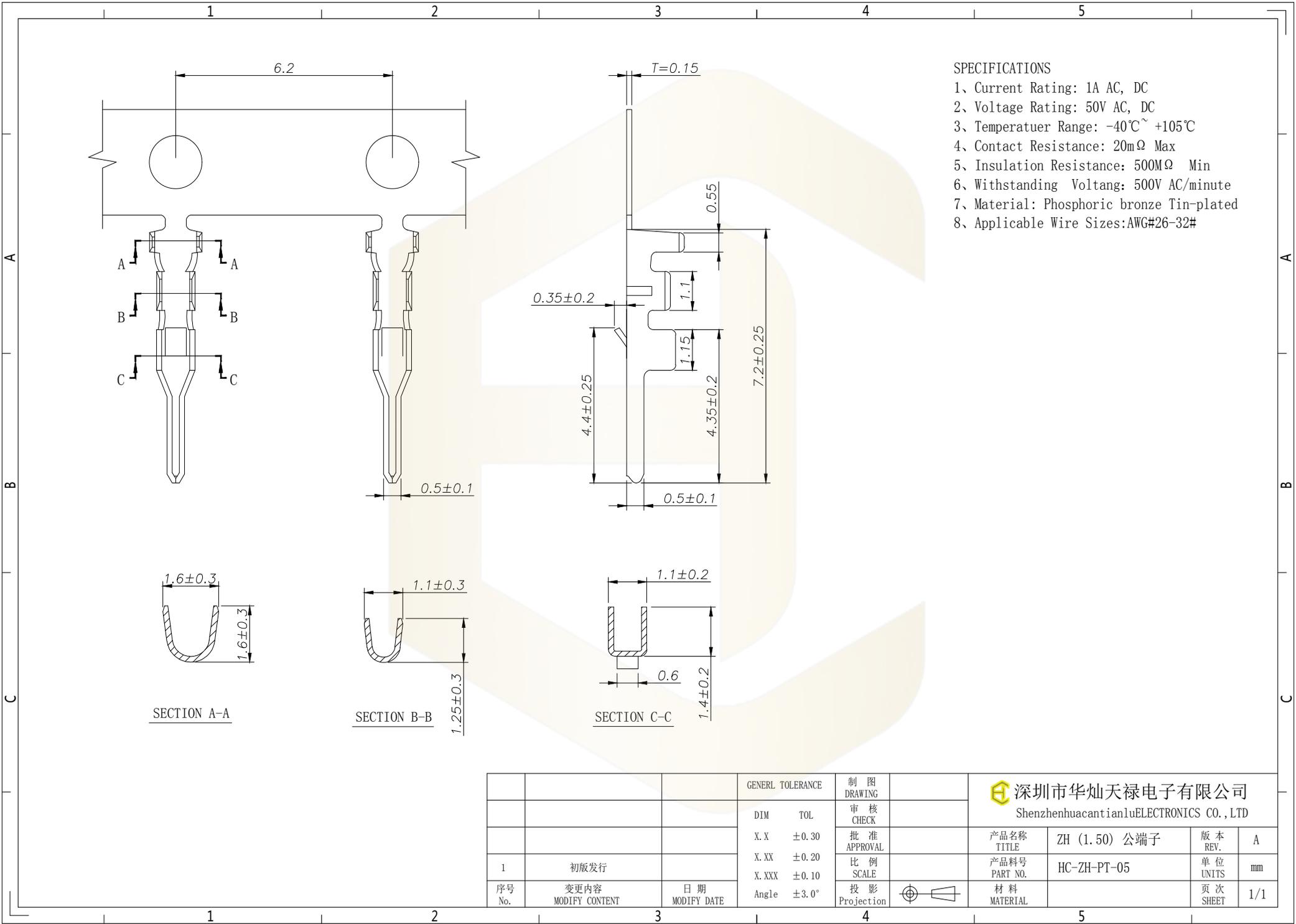
- 1, Current Rating: 1A AC, DC
- 2, Voltage Rating: 50V AC, DC
- 3, Temperatuer Range: -40°C ~ +105°C
- 4, Contact Resistance: 20mΩ Max
- 5, Insulation Resistance: 500MΩ Min
- 6, Withstanding Voltang: 500V AC/minute
- 7, Material: Housing Nylon66 UL94-V0(2)

Circuit	Part NO.	Dimensions mm		
		A	B	C
2	HC-ZH-2Y	1.50	4.50	3.40
3	HC-ZH-3Y	3.00	6.00	4.90
4	HC-ZH-4Y	4.50	7.50	6.40
5	HC-ZH-5Y	6.00	9.00	7.90
6	HC-ZH-6Y	7.50	10.50	9.40
7	HC-ZH-7Y	9.00	12.00	10.90
8	HC-ZH-8Y	10.50	13.50	12.40
9	HC-ZH-9Y	12.00	15.00	13.90
10	HC-ZH-10Y	13.50	16.50	15.40
11	HC-ZH-11Y	15.00	18.00	16.90
12	HC-ZH-12Y	16.50	19.50	18.40
13	HC-ZH-13Y	18.00	21.00	19.90
14	HC-ZH-14Y	19.50	22.50	21.40
15	HC-ZH-15Y	21.00	24.00	22.90
16	HC-ZH-16Y	22.50	25.50	24.40
17	HC-ZH-17Y	24.00	27.00	25.90
18	HC-ZH-18Y	25.50	28.50	27.40
19	HC-ZH-19Y	27.00	30.00	28.90
20	HC-ZH-20Y	28.50	31.50	30.40

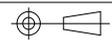
**Ordering Information**

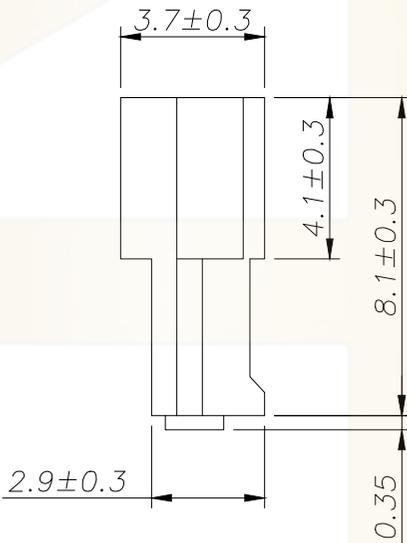
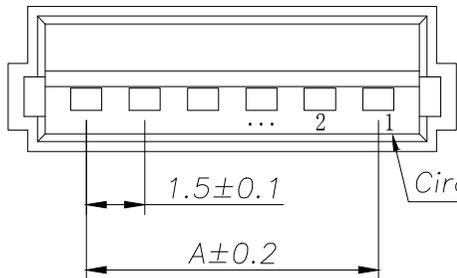
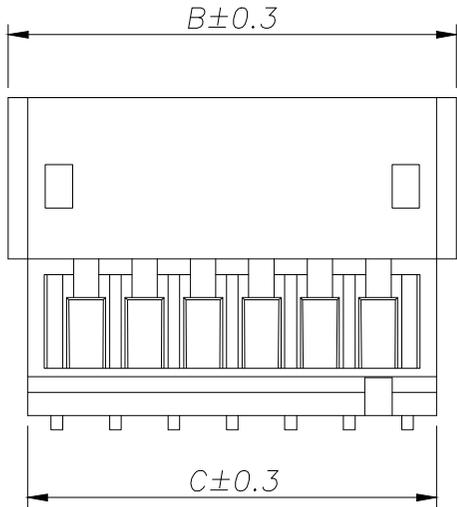
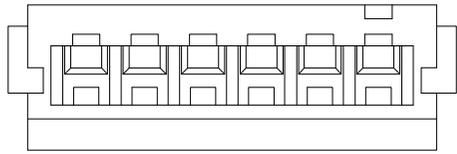


		GENERAL TOLERANCE	制图 DRAWING	05	深圳市华灿天禄电子有限公司 ShenzhenhuacantianluELECTRONICS CO., LTD			
		DIM TOL	审核 CHECK					
		X.X ±0.30	批准 APPROVAL		产品名称 TITLE	ZH (1.50)单排 孔座	版本 REV.	A
1	初版发行	X.XX ±0.20	比例 SCALE		产品料号 PART NO.	HC-ZH-NY	单位 UNITS	mm
序号 No.	变更内容 MODIFY CONTENT	日期 MODIFY DATE	Angle ±3.0°	投影 Projection	材料 MATERIAL		页次 SHEET	1/1



- SPECIFICATIONS**
- 1、Current Rating: 1A AC, DC
  - 2、Voltage Rating: 50V AC, DC
  - 3、Temperatuer Range:  $-40^{\circ}\text{C} \sim +105^{\circ}\text{C}$
  - 4、Contact Resistance:  $20\text{m}\Omega$  Max
  - 5、Insulation Resistance:  $500\text{M}\Omega$  Min
  - 6、Withstanding Voltang: 500V AC/minute
  - 7、Material: Phosphoric bronze Tin-plated
  - 8、Applicable Wire Sizes: AWG#26-32#

		GENERAL TOLERANCE		制图 DRAWING	 <b>深圳市华灿天禄电子有限公司</b> ShenzhenhuacantianluELECTRONICS CO.,LTD			
		DIM	TOL	审核 CHECK				
		X.X	$\pm 0.30$	批准 APPROVAL	产品名称 TITLE	ZH (1.50) 公端子	版本 REV.	A
1	初版发行	X.XX	$\pm 0.20$	比例 SCALE	产品料号 PART NO.	HC-ZH-PT-05	单位 UNITS	mm
序号 No.	变更内容 MODIFY CONTENT	日期 MODIFY DATE	Angle $\pm 3.0^{\circ}$	投影 Projection		材料 MATERIAL	页次 SHEET	1/1



**SPECIFICATIONS**

- 1、Current Rating: 1A AC, DC
- 2、Voltage Rating: 50V AC, DC
- 3、Temperatuer Range: -40°C ~ +105°C
- 4、Contact Resistance: 20mΩ Max
- 5、Insulation Resistance: 500MΩ Min
- 6、Withstanding Voltang: 500V AC/minute
- 7、Material: Housing Nylon66 UL94-V0(2)

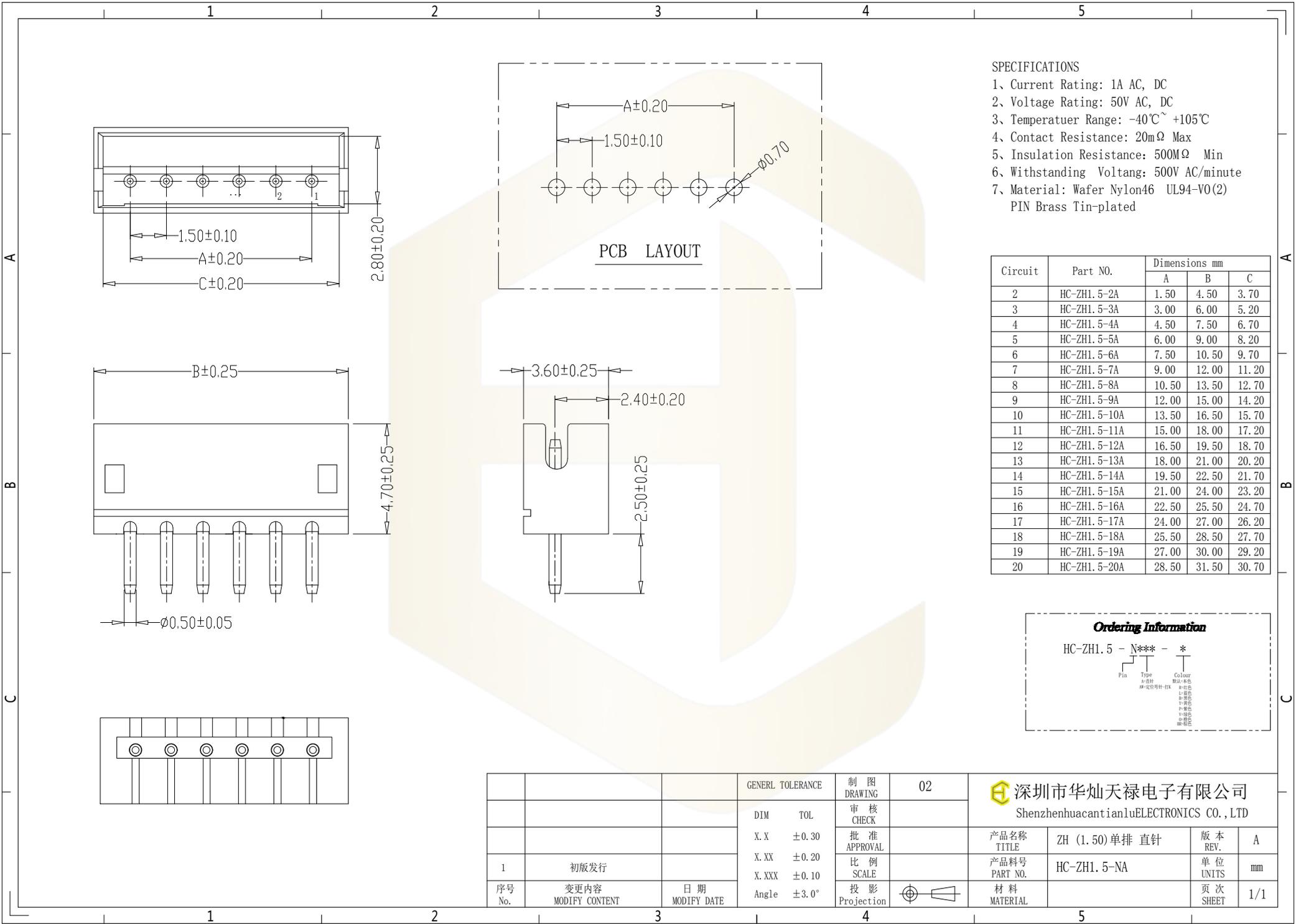
Circuit	Part NO.	Dimensions mm		
		A	B	C
2	HC-ZH-2EY-05	1.50	5.50	4.50
3	HC-ZH-3EY-05	3.00	7.00	6.00
4	HC-ZH-4EY-05	4.50	8.50	7.50
5	HC-ZH-5EY-05	6.00	10.00	9.00
6	HC-ZH-6EY-05	7.50	11.50	10.50
7	HC-ZH-7EY-05	9.00	13.00	12.00
8	HC-ZH-8EY-05	10.50	14.50	13.50
9	HC-ZH-9EY-05	12.00	16.00	15.00
10	HC-ZH-10EY-05	13.50	17.50	16.50
11	HC-ZH-11EY-05	15.00	19.00	18.00
12	HC-ZH-12EY-05	16.50	20.50	19.50
13	HC-ZH-13EY-05	18.00	22.00	21.00
14	HC-ZH-14EY-05	19.50	23.50	22.50
15	HC-ZH-15EY-05	21.00	25.00	24.00
16	HC-ZH-16EY-05	22.50	26.50	25.50
17	HC-ZH-17EY-05	24.00	28.00	27.00
18	HC-ZH-18EY-05	25.50	29.50	28.50
19	HC-ZH-19EY-05	27.00	31.00	30.00
20	HC-ZH-20EY-05	28.50	32.50	31.50

**Ordering Information**

HC-ZH - N\*\*\* - \* - 05

Pin	Type Type 05-孔距	Colour 颜色-本色 05-本色 1-白色 2-黑色 3-黄色 4-绿色 5-蓝色 6-棕色
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			GENERAL TOLERANCE		制图 DRAWING		<b>深圳市华灿天禄电子有限公司</b> ShenzhenhuacantianluELECTRONICS CO., LTD			
			DIM	TOL	审核 CHECK					
			X.X	±0.30	批准 APPROVAL		产品名称 TITLE	ZH (1.50)单排 母孔座	版本 REV.	A
1	初版发行		X.XX	±0.20	比例 SCALE		产品料号 PART NO.	HC-ZH-NEY-05	单位 UNITS	mm
序号 No.	变更内容 MODIFY CONTENT	日期 MODIFY DATE	X.XXX	±0.10	投影 Projection		材料 MATERIAL		页次 SHEET	1/1
			Angle	±3.0°						



- SPECIFICATIONS**
- 1、Current Rating: 1A AC, DC
  - 2、Voltage Rating: 50V AC, DC
  - 3、Temperatuer Range: -40℃ ~ +105℃
  - 4、Contact Resistance: 20mΩ Max
  - 5、Insulation Resistance: 500MΩ Min
  - 6、Withstanding Voltang: 500V AC/minute
  - 7、Material: Wafer Nylon46 UL94-V0(2)  
PIN Brass Tin-plated

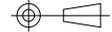
Circuit	Part NO.	Dimensions mm		
		A	B	C
2	HC-ZH1.5-2A	1.50	4.50	3.70
3	HC-ZH1.5-3A	3.00	6.00	5.20
4	HC-ZH1.5-4A	4.50	7.50	6.70
5	HC-ZH1.5-5A	6.00	9.00	8.20
6	HC-ZH1.5-6A	7.50	10.50	9.70
7	HC-ZH1.5-7A	9.00	12.00	11.20
8	HC-ZH1.5-8A	10.50	13.50	12.70
9	HC-ZH1.5-9A	12.00	15.00	14.20
10	HC-ZH1.5-10A	13.50	16.50	15.70
11	HC-ZH1.5-11A	15.00	18.00	17.20
12	HC-ZH1.5-12A	16.50	19.50	18.70
13	HC-ZH1.5-13A	18.00	21.00	20.20
14	HC-ZH1.5-14A	19.50	22.50	21.70
15	HC-ZH1.5-15A	21.00	24.00	23.20
16	HC-ZH1.5-16A	22.50	25.50	24.70
17	HC-ZH1.5-17A	24.00	27.00	26.20
18	HC-ZH1.5-18A	25.50	28.50	27.70
19	HC-ZH1.5-19A	27.00	30.00	29.20
20	HC-ZH1.5-20A	28.50	31.50	30.70

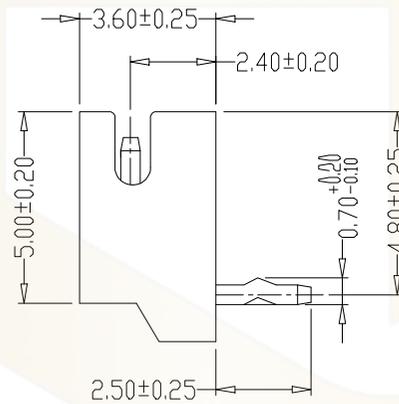
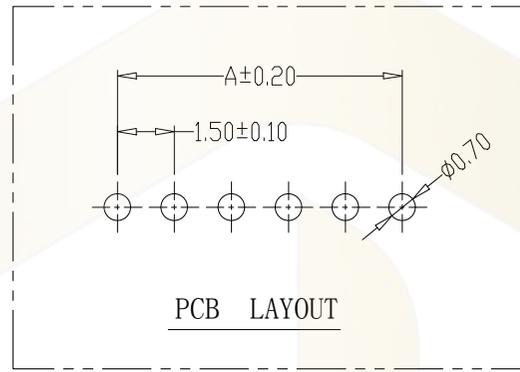
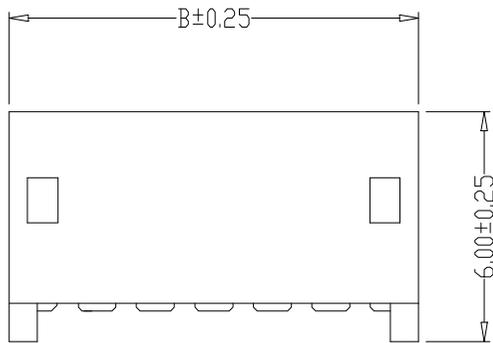
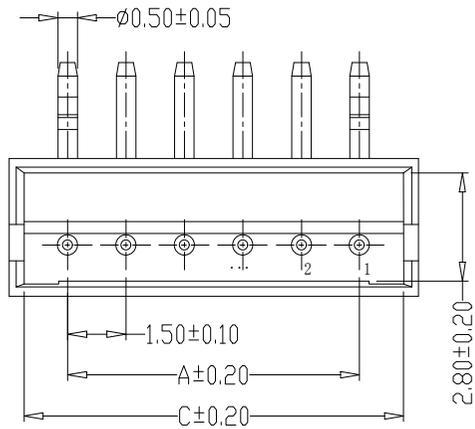
**Ordering Information**

HC-ZH1.5 - N\*\*\* - \*

Pin      Type      Colour  
插针材料      插针类型      插针颜色

Pin: 1-10, 11-12, 13-14, 15-16, 17-18, 19-20  
Type: 1-10, 11-12, 13-14, 15-16, 17-18, 19-20  
Colour: 1-10, 11-12, 13-14, 15-16, 17-18, 19-20

GENERAL TOLERANCE		制图 DRAWING	02		 <b>深圳市华灿天禄电子有限公司</b> ShenzhenhuacantianluELECTRONICS CO., LTD			
DIM TOL		审核 CHECK						
X.X ±0.30		批准 APPROVAL			产品名称 TITLE	ZH (1.50)单排 直针	版本 REV.	A
X.XX ±0.20		比例 SCALE			产品料号 PART NO.	HC-ZH1.5-NA	单位 UNITS	mm
X.XXX ±0.10		投影 Projection			材料 MATERIAL		页次 SHEET	1/1
1	初版发行	日期 MODIFY DATE						
序号 No.	变更内容 MODIFY CONTENT	日期 MODIFY DATE						

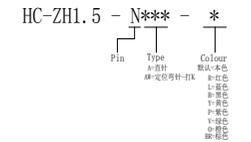


**SPECIFICATIONS**

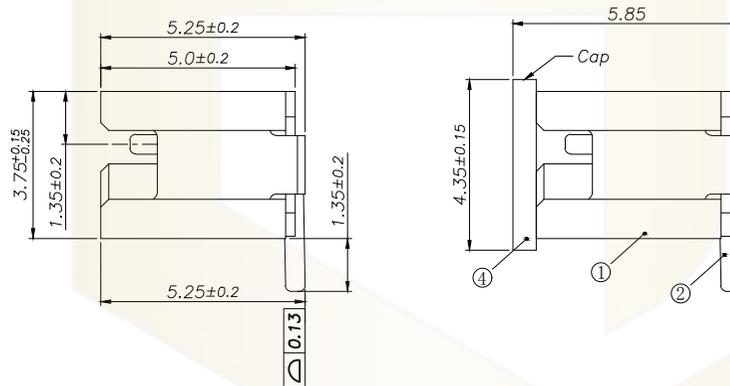
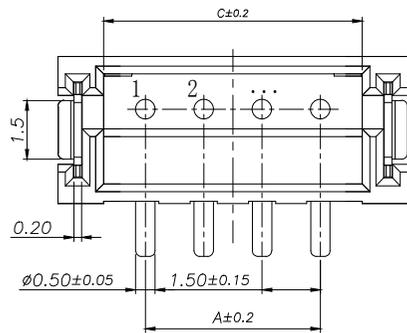
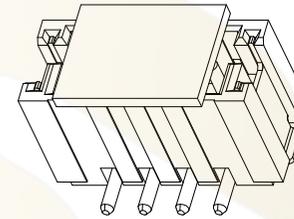
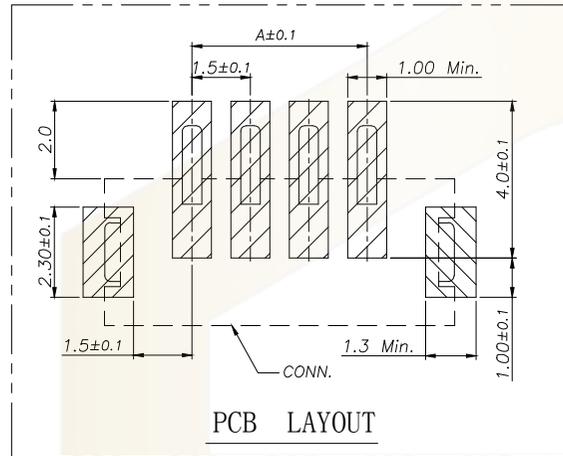
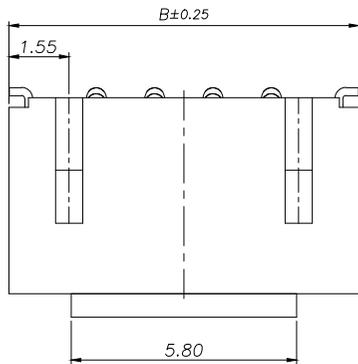
- 1、Current Rating: 1A AC, DC
- 2、Voltage Rating: 50V AC, DC
- 3、Temperatuer Range:  $-40^{\circ}\text{C} \sim +105^{\circ}\text{C}$
- 4、Contact Resistance:  $20\text{m}\Omega$  Max
- 5、Insulation Resistance:  $500\text{M}\Omega$  Min
- 6、Withstanding Voltang: 500V AC/minute
- 7、Material: Wafer Nylon46 UL94-V0(2)  
PIN Brass Tin-plated

Circuit	Part NO.	Dimensions mm		
		A	B	C
2	HC-ZH1.5-2AW	1.50	4.50	3.70
3	HC-ZH1.5-3AW	3.00	6.00	5.20
4	HC-ZH1.5-4AW	4.50	7.50	6.70
5	HC-ZH1.5-5AW	6.00	9.00	8.20
6	HC-ZH1.5-6AW	7.50	10.50	9.70
7	HC-ZH1.5-7AW	9.00	12.00	11.20
8	HC-ZH1.5-8AW	10.50	13.50	12.70
9	HC-ZH1.5-9AW	12.00	15.00	14.20
10	HC-ZH1.5-10AW	13.50	16.50	15.70
11	HC-ZH1.5-11AW	15.00	18.00	17.20
12	HC-ZH1.5-12AW	16.50	19.50	18.70
13	HC-ZH1.5-13AW	18.00	21.00	20.20
14	HC-ZH1.5-14AW	19.50	22.50	21.70
15	HC-ZH1.5-15AW	21.00	24.00	23.20
16	HC-ZH1.5-16AW	22.50	25.50	24.70
17	HC-ZH1.5-17AW	24.00	27.00	26.20
18	HC-ZH1.5-18AW	25.50	28.50	27.70
19	HC-ZH1.5-19AW	27.00	30.00	29.20
20	HC-ZH1.5-20AW	28.50	31.50	30.70

**Ordering Information**



			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		产品名称 TITLE	ZH (1.50)单排 定位弯针 打K	版本 REV.	A
			X.X $\pm 0.30$	批准 APPROVAL		产品料号 PART NO.	HC-ZH1.5-NAW	单位 UNITS	mm
			X.XX $\pm 0.20$	比例 SCALE		材料 MATERIAL		页次 SHEET	1/1
			X.XXX $\pm 0.10$	投影 Projection					
1	初版发行		Angle $\pm 3.0^{\circ}$						
序号 No.	变更内容 MODIFY CONTENT	日期 MODIFY DATE							

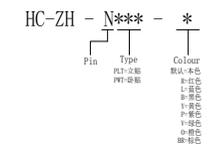


SPECIFICATIONS

1. Current Rating: 1A AC, DC
2. Voltage Rating: 50V AC, DC
3. Temperature Range: -40°C ~ +105°C
4. Contact Resistance: 20mΩ Max
5. Insulation Resistance: 500MΩ Min
6. Withstanding Voltage: 500V AC/minute
7. Material: Wafer LCP UL94-V0  
PIN Brass Tin-plated

Circuit	Part NO.	Dimensions mm		
		A	B	C
2	HC-ZH-2PLT	1.50	6.00	3.65
3	HC-ZH-3PLT	3.00	7.50	5.15
4	HC-ZH-4PLT	4.50	9.00	6.65
5	HC-ZH-5PLT	6.00	10.50	8.15
6	HC-ZH-6PLT	7.50	12.00	9.65
7	HC-ZH-7PLT	9.00	13.50	11.15
8	HC-ZH-8PLT	10.50	15.00	12.65
9	HC-ZH-9PLT	12.00	16.50	14.15
10	HC-ZH-10PLT	13.50	18.00	15.65
11	HC-ZH-11PLT	15.00	19.50	17.15
12	HC-ZH-12PLT	16.50	21.00	18.65
13	HC-ZH-13PLT	18.00	22.50	20.15
14	HC-ZH-14PLT	19.50	24.00	21.65
15	HC-ZH-15PLT	21.00	25.50	23.15
16	HC-ZH-16PLT	22.50	27.00	24.65
17	HC-ZH-17PLT	24.00	28.50	26.15
18	HC-ZH-18PLT	25.50	30.00	27.65
19	HC-ZH-19PLT	27.00	31.50	29.15
20	HC-ZH-20PLT	28.50	33.00	30.65

Ordering Information

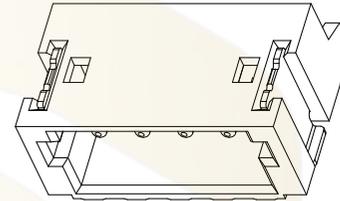
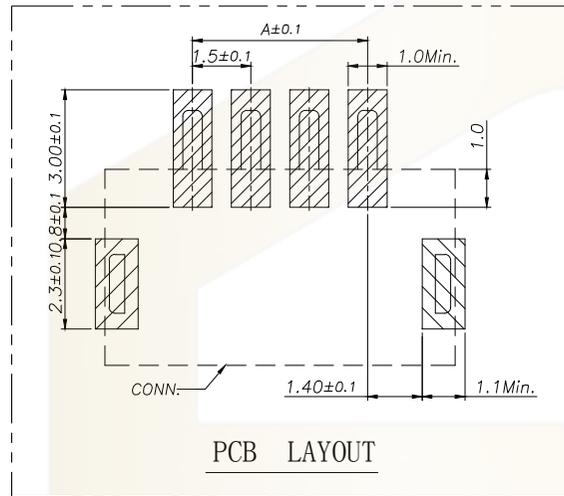
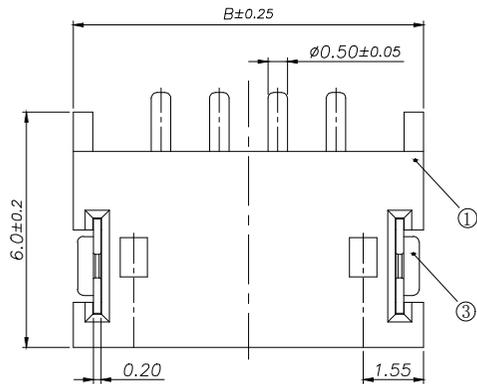


3	③	焊片	铜合金	2	镀锡
2	②	接触件	铜合金	N	镀锡
1	①	基座	LCP	1	UL94-V0
序号	图号	名称	材料	数量	附件

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

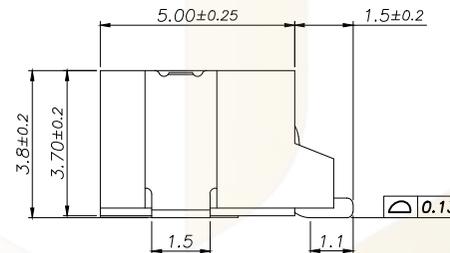
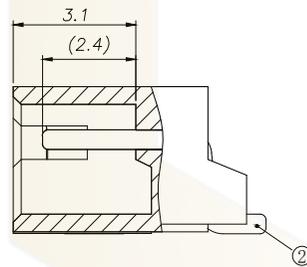
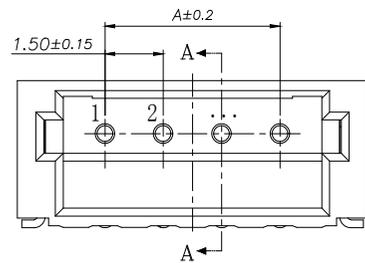
产品名称 TITLE	ZH (1.50)单排 立贴	版本 REV.	A
产品料号 PART NO.	HC-ZH-NPLT	单位 UNITS	mm
材料 MATERIAL		页次 SHEET	1/1



SPECIFICATIONS

- 1、Current Rating: 1A AC, DC
- 2、Voltage Rating: 50V AC, DC
- 3、Temperatuer Range: -40°C ~ +105°C
- 4、Contact Resistance: 20mΩ Max
- 5、Insulation Resistance: 500MΩ Min
- 6、Withstanding Voltang: 500V AC/minute
- 7、Material: Wafer LCP UL94-V0  
PIN Brass Tin-plated

Circuit	Part NO.	Dimensions mm	
		A	B
2	HC-ZH-2PWT	1.50	6.00
3	HC-ZH-3PWT	3.00	7.50
4	HC-ZH-4PWT	4.50	9.00
5	HC-ZH-5PWT	6.00	10.50
6	HC-ZH-6PWT	7.50	12.00
7	HC-ZH-7PWT	9.00	13.50
8	HC-ZH-8PWT	10.50	15.00
9	HC-ZH-9PWT	12.00	16.50
10	HC-ZH-10PWT	13.50	18.00
11	HC-ZH-11PWT	15.00	19.50
12	HC-ZH-12PWT	16.50	21.00
13	HC-ZH-13PWT	18.00	22.50
14	HC-ZH-14PWT	19.50	24.00
15	HC-ZH-15PWT	21.00	25.50
16	HC-ZH-16PWT	22.50	27.00
17	HC-ZH-17PWT	24.00	28.50
18	HC-ZH-18PWT	25.50	30.00
19	HC-ZH-19PWT	27.00	31.50
20	HC-ZH-20PWT	28.50	33.00



**Ordering Information**

HC-ZH - N\*\*\* - \*

Pin Type Colour  
 默认本色  
 镀锡  
 镀金  
 镀镍  
 镀银  
 镀铜  
 镀钯  
 镀铂

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

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

深圳市华灿天禄电子有限公司  
ShenzhenhuacantianluELECTRONICS CO.,LTD

产品名称 TITLE	ZH (1.50)单排 卧贴	版本 REV.	A
产品料号 PART NO.	HC-ZH-NPWT	单位 UNITS	mm
材料 MATERIAL		页次 SHEET	1/1