5、Material

材　料

P/N 零件名称	Type 类 型	Material 材 料	Finish 表面处理	Expiain 说 明
Terminal 端 子	Contact 插 簧	Phosphor bronze 黄铜镀锡厚 0.25mm	Tin Plating:3~5μm 镀锡：3~5μm	RoHS
Housing 孔 座	Plastic 塑 壳	Nylon66　UL94V-0	Color: White 颜色：白色	
Wafer 针 座	Plastic 塑 壳	LCP UL94V-0	Color: Beige 颜色：米色	
	Contact 插 针	Brass 黄铜　厚□0.64mm	Tin Plating:2.5~5μm 镀锡：2.5~5μm	

6、Electrical　Performance

电 气 性 能

N0. 序号	Ltem 项 目	Test mode 试验方法	Requirement 技术要求
6.1	Current Rated 额定电流		10A　　A C　D C
6.2	Voltage Rated 额定电压		250V　AC　DC
6.3	ContactResistance 接触电阻	A maximum voltage of 20mV and a maximum current of 100mA are applied to the Mate connector 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 Does not include wire resistance 不包含电线阻抗	Initial value Less than 20mΩ 初始值≤10 mΩ
6.4	withstandvoltage 耐电压	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 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)	No breakdownor flashover 无击穿或者产生火花
6.5	InsulationResistance 绝缘电阻	Apply 500V DC(rms)for 1 minute between adjacent contacts to measure the insulation resistance 相邻两接触导体，1 分钟时间内施予 500V DC 电压，测量期间的绝缘阻抗值	More than 1000 MΩ ≥1000MΩ

7、Mechanical Performance:

机 械 性 能

N0. 序号	Ltem 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 wires, axial per minute to 25 ± 3mm rate of the pullout force 端子所压接电线，以每分钟25±3mm 速率之轴向拔出力	AWG#16 wire AWG#16 导线	More than 110N ≥110N
			AWG#18 wire AWG#18 导线	More than 90N ≥90N
			AWG#20 wire AWG#20 导线	More than 70N ≥70N
			AWG#22 wire AWG#22 导线	More than 50N ≥50N
7.2	Fixed terminals and hole seat 端子与孔座固定力	The terminal and the hole seat, at a rate per minute to 25 ± 3mm along the wire direction are pulled out from the hole in the seat capacity 端子与孔座配合，以每分钟 25±3mm 的速率沿导线方向将端子从孔座中拔出的力		Per contact 单一接触点 More than 25N ≥25N
7.3	Singlecontact 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 的速率，作插入力测试		Less than 10N ≤10N
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, as the pull-out test 孔座连同端子与针座两端互配，以每分钟25±3mm 的速率，作拔出力测试		More than 2N ≥2N
7.5	Pin Retention force 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 在针脚前端施加力，以每分钟 25±3mm 的速率，直到针退出针座的拔出力		Per contact 单一接触点 More than 25N ≥25N
7.6	Durability 耐久性	Mate connectors up 30 cycles at a Maximun rate of 10cycles per minute prior toenvironmental test 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		Contact Resistance ≤30 mΩ 接触电阻≤30 mΩ

N0. 序号	Ltem 项 目	Test mode 试验方法	Requirement 技术要求
7.7	Vibration 振动	Connector combination state of the welding circuit board as test samples, the request in accordance with the following specifications, resistance to vibration test, whether to produce discontinuous current determined during the experiment (off) phenomenon, after the experiment measuring contact resistance 组合状态下的连接器焊接电路板上作为试验样品，依照如下规格要求，进行耐振动试验，试验过程中确定是否产生不连续电流（断电）现象，试验过后测量接触电阻值 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) Period(周期):2 hous for each direction 每一个轴向持续 2 小时	Appearance：No damage 外观：无损伤 Contact Resistance ≤30 mΩ 接触电阻≤30 mΩ current Discontinuity： 1 micro second Max 电流中断：1μsec Max

8、Endurance Characteristics:

环 境 性 能

N0. 序号	Ltem 项 目	Test mode 试验方法	Requirement 技术要求
8.1	Thermal Aging 高温老化试验	Connector combination condition is placed in the oven, the request in accordance with the following specifications, high temperature aging test, after the test and measurement of contact resistance 组合状态下的连接器放置于加热烤箱中，依照如下规格要求，进行高温老化试验，试验后并测量接触电阻值 Temperature:85± 2 ℃ Period:96 hours continuously 温度：85± 2 ℃ 周期：持续 96 小时	Appearance：No damage 外观：无损伤 Contact Resistance ≤30 mΩ 接触电阻≤30 mΩ

N0. 序号	Ltem 项 目	Test mode 试验方法	Requirement 技术要求
8.2	Temperature 温升	Mate connector measure the temperature rise of contact when the maximum rated current is passed 组合状态下的连接器，通过最大容许电流测量导体温度上升值	30℃ Max
8.3	Humidity 恒定潮湿	Connector combination under the condition of constant temperature and humidity place space, in accordance with the requirements of the following specifications, constant temperature and humidity test, after the experiment measuring contact resistance, insulation resistance and withstand voltage test 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，进行恒温恒湿试验，试验过后测量接触电阻、绝缘电阻以及耐电压测试 Temperature: 40 ± 2 ℃ Relative humidity:90-95%RH Period:96 hours continuously 温度:40±2℃ 相对湿度:90-95% 周期：持续 96 小时	Appearance：No damage 外观：无损伤 Contact Resistance： ≤30mΩ 接触电阻：≤30 mΩ Insulation Resistance： ≥500MΩ 绝缘电阻：≥500MΩ No breakdown or flashover 无击穿或者产生火花
8.4	Temperature cycling 温度循环	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 组合状态下的连接器作为试验样品，依照如下规格要求，进行冷热冲击试验，试验后测量接触电阻、绝缘电阻、以及耐电压测试 One cycle consists of: -55±3℃,30min,Room temp.10-15 min 85±3℃,30min,Room temp.10-15 min Total cycle：5 cycle -55±3℃,30 分钟，放置转换时间 10-15 分钟 85±3℃,30 分钟，放置转换时间 10-15 分钟 循环次数：5 次	Same as paragraph 8.3 同 8.3 章节

9、Packaging Transportation Storage

包装、运输、贮存

9.1 Packaging

包装

(1) **Terminal packaging for the dish material packaging, rubber shell packaging for plastic bags, packaging bags packed for needle, (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、胶壳内包装为塑料袋，针座包装为袋装，装（贴）入合格证，注明产品名称、规格型号、数量生产日期等信息

(2) **Exterior package is carton, facing the packing list, the packing list marked with product name, specificcation 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

9.2 Transportation

运输

Any vehicle can be adopted for the transportation,but moisture-proof and no mechanical damage,transport temperature to.-20℃~+50℃

允许用任何方式运输，但需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-20℃~+50℃

9.3 Storage

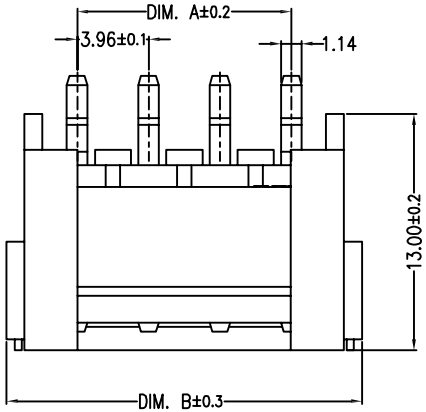
贮存

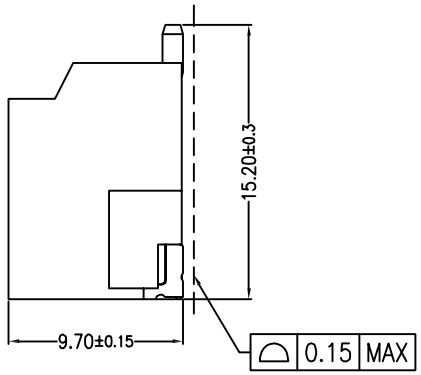
(1) **The connector of packing finished should be in the ambient temperature between-10℃ to+40℃, Relative humidity≤80%. To store in storehouse does not have acidic, alkaline air and other corrosive gas in the ambient air.**

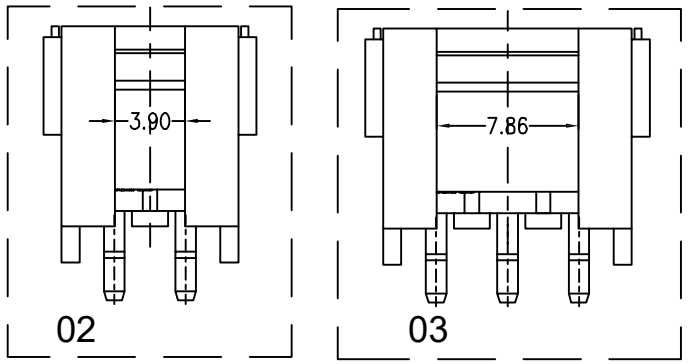
包装完毕的连接器应在环境温度为-20℃~+40℃，相对湿度≤80%，周围空气中没有酸性，碱性及其它腐蚀性气体的库房中贮存

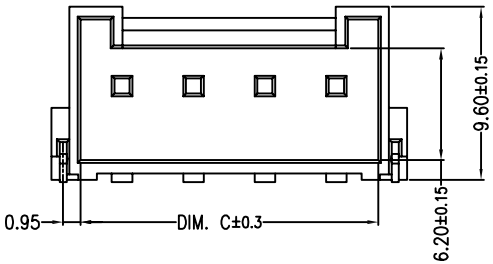
(2) **Re-qualification test shall be conducted immediately while the storing duration exceed 6 months**

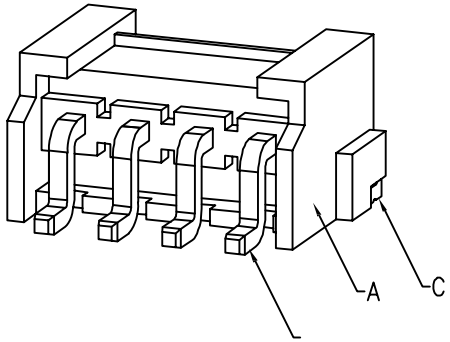
贮存期为 6 个月，超期 6 个月需从新检查





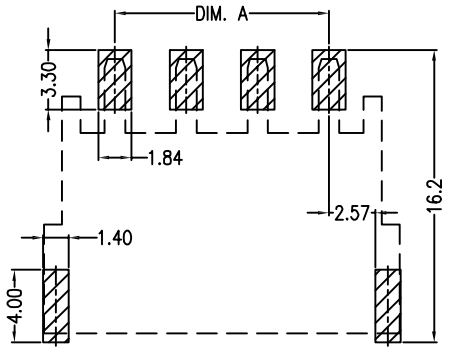






技术参数SPECIFICATIONS

温度范围(Temperature range)：-40 °C~+105°C
额定电压（Voltage rating）:250 V.Ac/Dc
额定电流（Current rating ）:10A
接触电阻（Contact resistance）:≤10 M Ω
绝缘电阻（Insulation resistance）:≥1000MΩ
耐压（Withstand voltage ）:1500 V.Ac/1min
材料（Material）： 针座（Wafer）: LCP UL94V-0
插针（Terminal）:黄铜（Rhos.bronze Tin/plated）
贴片（Wafer）:黄铜（Rhos.bronze Tin/plated）
包装方式（Package）:贴片（Wafer）
散装 Loos en Package
管装 Pipe Package
编带 Tape Reel Package



Mating PCB detail

Circuits	Dimensions(mm)		
	DIM.A	DIM.B	DI M.C
02	3.96	11.88	8.60
03	7.92	15.84	12.56
04	11.88	19.80	16.52
05	15.84	23.76	20.48
06	19.80	27.72	24.44
07	23.76	31.68	28.40
08	27.72	35.64	32.36
09	31.68	39.60	36.32
10	35.64	43.56	40.28

浙江创都电子科技有限公司

			PART NO：CAX-VH396-6A-WBT-D	模号D
设计:		2022.04.28	SERIES:	
审核:		2022.04.28		DRAW NO.
批准:		2022.04.28		UNIT: mm / SHEET: 1/1
CUSTOMER DRAWING		客户图纸	REV. 1.00	SCALE N/A