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

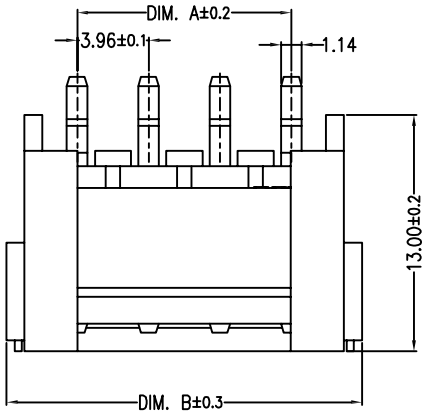
8、Endurance Characteristics:

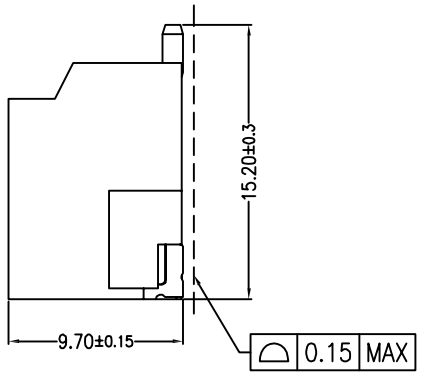
环 境 性 能

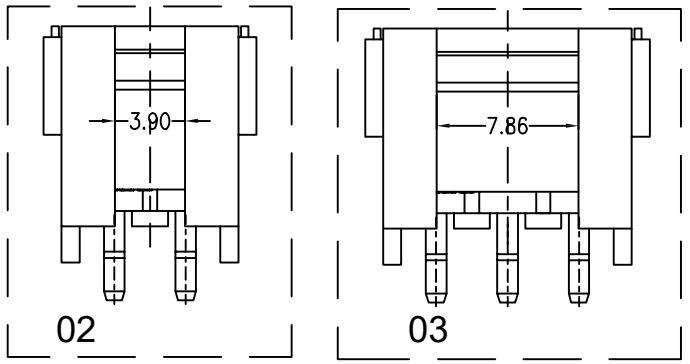
N0. 序号	Ltem 项 目	Test mode 试验方法	Requirement 技术要求
8.1	Thermal Aging 高温老化试验	Connector combination condition is placed in the oven, the request in accordance with the following specifications, high temperature aging test, after the test and measurement of contact resistance 组合状态下的连接器放置于加热烤箱中，依照如下规格要求，进行高温老化试验，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

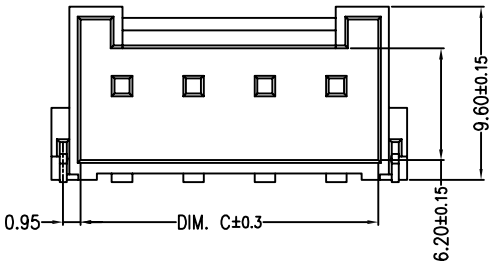
N0. 序号	Ltem 项 目	Test mode 试验方法	Requirement 技术要求
8.2	Temperature 温升	Mate connector measure the temperature rise of contact when the maximum rated current is passed 组合状态下的连接器，通过最大容许电流测量导体温度上升值	30℃ Max
8.3	Humidity 恒定潮湿	Connector combination under the condition of constant temperature and humidity place 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

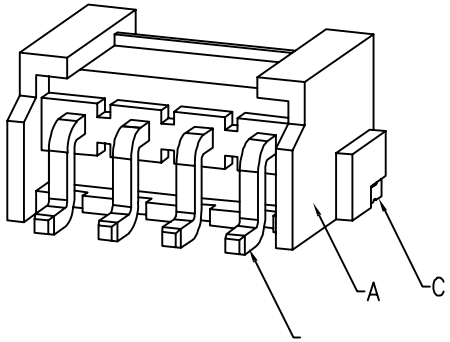
N0. 序号	Ltem 项 目	Test mode 试验方法	Requirement 技术要求
8.5	Salt spray 盐雾	The combined state of connector as test samples, salt spray test according to the following specifications, test samples will be clean again with the water to dry naturally, measurement of contact resistance 组合状态下的连接器作为试验样品，依照如下规格要求进行盐水喷雾试验，试验后将样品用清水冲干净自然凉干，测量接触电阻值 Temperature：35±3℃ Solution：5±1% Period： Stamping after tin plated for 8 hours Stamping before tin plated for 48 hours 温度：35±3℃ 浓度：5±1% 周期： 先电镀后冲压 8 小时 先冲压后电镀 24 小时	Appearance：No damage 外观：无损伤 Contact Resistance： ≤30mΩ 接触电阻：≤30 mΩ
8.6	Solder ability 可焊性	In accordance with the following specifications were placed tin soldering test 放置锡炉中依照如下规格进行焊锡试验 Solder Temperature:245±5℃ Immersion period:3±0.5S 焊锡温度：245±5℃ 沉浸周期：3±0.5S	Area of Soldering：≥90% 焊锡面积：≥90%
8.7	Resistance to soldering heat 耐焊接热	anual soldering tin process Soldering time：3±0.5S Soldering pot：305±5℃ 手工烙铁焊锡工艺 焊接时间：3±0.5S 焊接温度：305±5℃ Mode of operation: 操作方式： Position DIP type needle solder, conductor 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 Wave soldering tin soldering process Soldering time：5±0.5S Soldering pot：250±5℃ 波峰焊焊锡工艺 焊接时间：5±0.5S 焊接温度：250±5℃	Appearance：No damage 外观：无损伤





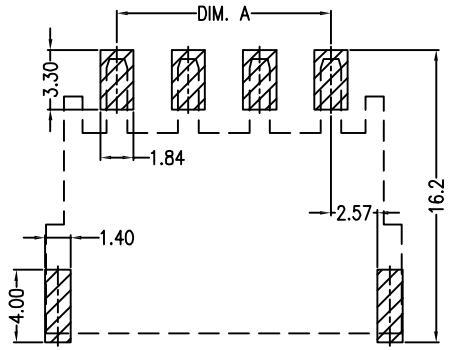






技术参数SPECIFICATIONS

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-VH396-4A-WBT-D	模号D
设计:		2022.04.28	SERIES:	
审核:		2022.04.28		DRAW NO.
批准:		2022.		UNIT: mm / SHEET: 1/1
CUSTOMER DRAWING		客户图纸	REV. 1.00 SCALE N/A	