# Product Specifications 产品承认书

客户Customer:A2542部品编号Part Number:A2542产品名称Description:2510客户料号Code NO:

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#### 1, SCOPE

适用范围

The contents of specifications for 2510 series connector strip, including product performance, test methods and inspection requirements

本规格书内容适用于2510系列条形连接器,包含了产品的性能、试验方法和检验要求

#### 2, APPLICABLE STANDARDS

#### 适用的标准

2. 1	GB/T2421	<b>Testing method for Environmental of Electrical Connectors Class 1:</b>
		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
		电子设备用机电元件基本试验规程及测量方法

#### 3. USE CONDITION

使用条件

3.1 Ambient temperature Range:-25℃~+85℃

环境温度: -25℃~+85℃

3.2 Applicable Wire Sizes: AWG#24~#30

适用线规: AWG#24~#30

3.3 Applicable PC board thickness:1.6mm

适用 PC 板厚度: 1.6mm

### 4. Appearance and Dimension

外观及尺寸

4.1 Appearance: Product surface without defect, dirt, crack, and mechanical damang, Contact without rust, plating not oxided 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

外形尺寸: 依照附图

4.3 Exchangable: Exchangable with same specification products.

互换性: 相同规格应能互换

## 5. Material

材 料

P/N	Type	Material	Finish	Expiain
零件名称	类 型	材料	表面处理	说 明
Terminal	Contact	Phosphor bronze	Tin Plating:3~5 μ m	
端 子	插 簧	锡青磷铜 厚 0.20mm	镀锡: 3~5 μ m	
Housing	Plastic	NI-1(( III 04V 0	Color: White	
孔 座	塑 壳	Nylon66 UL94V-0	颜色: 白色	RoHS
	Plastic	Nylon66 UL94V-0	Color: Beige	
Wafer	塑 壳	Ny101100 OL94 V-0	颜色:米色	
针 座	Contact	Brass	Tin Plating:2.5~5 μ m	
	插 针	黄铜 厚□0.64mm	镀锡: 2.5~5 μ m	

## 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		4A AC DC
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 20m Ω 初始值≤20 m Ω
6.4	withstandvoltage 耐电压	Apply 1000V 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 1000V 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 M $\Omega$ $\geqslant$ 1000M $\Omega$

## 7. Mechanical Performance:

机械性能

N0. 字号	Ltem 项 目	Test mode 试验方法		Requirement 技术要求
		Terminal crimping wires, axial per minute to 25 ± 3mm rate of	AWG#24 wire AWG#24 导线	More than 30N ≥30N
		the pullout force	AWG#26 wire	More than 20N
7.1	Terminal crimping wire strength		AWG#26 导线	≥20N
7.1	端子压接导线强度		AWG#28 wire	More than 13N
	州 1 压圾可以压及		AWG#28 导线	≥13N
		端子所压接电线, 以每分钟	AWG#30 wire	More than 8N
		25±3mm 速率之轴向拔出力	AWG#30 导线	≥8N
		The terminal and the hole seat, at	•	Per contact
	Fixed terminals	to $25 \pm 3$ mm along the wire direct	ion are pulled out	单一接触点
7.2	and hole seat	from the hole in the seat capacity		7 257/11
	端子与孔座固定力			More than 15N
		端子与孔座配合,以每分钟 25±3	3mm 的速率沿导	≥15N
		线方向将端子从孔座中拔出的力	. 1 1 1.1	
		The Housing together with the te Wafer matched, at a rate per minu		
	Singlecontact	inserting force test	the to $23 \pm 311111$ ,	Less than 6N
7.3	insertion force	inserting force test		
	单接触插入力	   孔座连同端子与针座两端互配,じ	J每分钟 25+3mm	≤6N
		的速率,作插入力测试	х <del></del>	
		The Housing together with the te	rminal ends with	
		Wafer matched, at a rate per minute	e to $25 \pm 3$ mm, as	
7.4	Single contact	the pull-out test		More than 0.6N
7.4	withdrawal force			≥0.6N
	单接触拔出力	孔座连同端子与针座两端互配,以	人每分钟 25±3mm	>0.0N
		的速率,作拔出力测试		
		Exerts a force on the pin end, at a r	rate per minute 25	
		$\pm$ 3mm, until the needle exit seat pu	•	Per contact
	Pin Retention			单一接触点
7.5	force			
	PIN 针固定力	在针脚前端施加力,以每分钟 25	5±3mm 的速率,	More than 15N
		直到针退出针座的拔出力		≥15N
		Mate connectors up 30 cycles at a	Maximun rate of	
		10 cycles per minute prior toenviror	nmental test	Contact Resistance
7.6	Durability			≤30 m Ω
7.0	耐久性	组合状态下的连接器且未经环境		
		进行 10 次嵌入与拔出,连续 30	次嵌入与拔出往	接触电阻≤30 mΩ
		返测试		

N0. 序号	Ltem 项 目	Test mode 试验方法	Requirement 技术要求
		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	Appearance: No damage 外观: 无损伤
7.7	Vibration 振动	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	Contact Resistance ≤30 m Ω 接触电阻≤30 m Ω
		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	current Discontinuity: 1 micro second Max 电流中断: 1 μ sec Max

## **8.** Endurance Characteristics:

环境性能

N0.	Ltem	Test mode	Requirement
序号	项 目	试验方法	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 °C Relative humidity:90-95%RH Period:96 hours continuously	Appearance: No damage 外观: 无损伤  Contact Resistance: $\leq 30 \text{ m}\Omega$ 接触电阻: $\leq 30 \text{ m}\Omega$ Insulation Resistance: $\geq 500 \text{M}\Omega$ 绝缘电阻: $\geq 500 \text{M}\Omega$ No breakdown or flashover 无击穿或者产生火花
8.4	Temperature cycling 温度循环	相对湿度:90-95% 周期: 持续 96 小时 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
		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	Appearance: No damage 外观: 无损伤
8.5	Salt spray 盐雾	Temperature: $35\pm3$ °C Solution: $5\pm1\%$ Period: Stamping after tin plated for 8 hours Stamping before tin plated for 48 hours 温度: $35\pm3$ °C 浓度: $5\pm1\%$ 周期: 先电镀后冲压 8 小时 先冲压后电镀 48 小时	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: 230±5℃ 波峰焊焊锡工艺 焊接时间: 5±0.5S 焊接温度: 230±5℃	Appearance: No damage 外观: 无损伤

#### 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

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

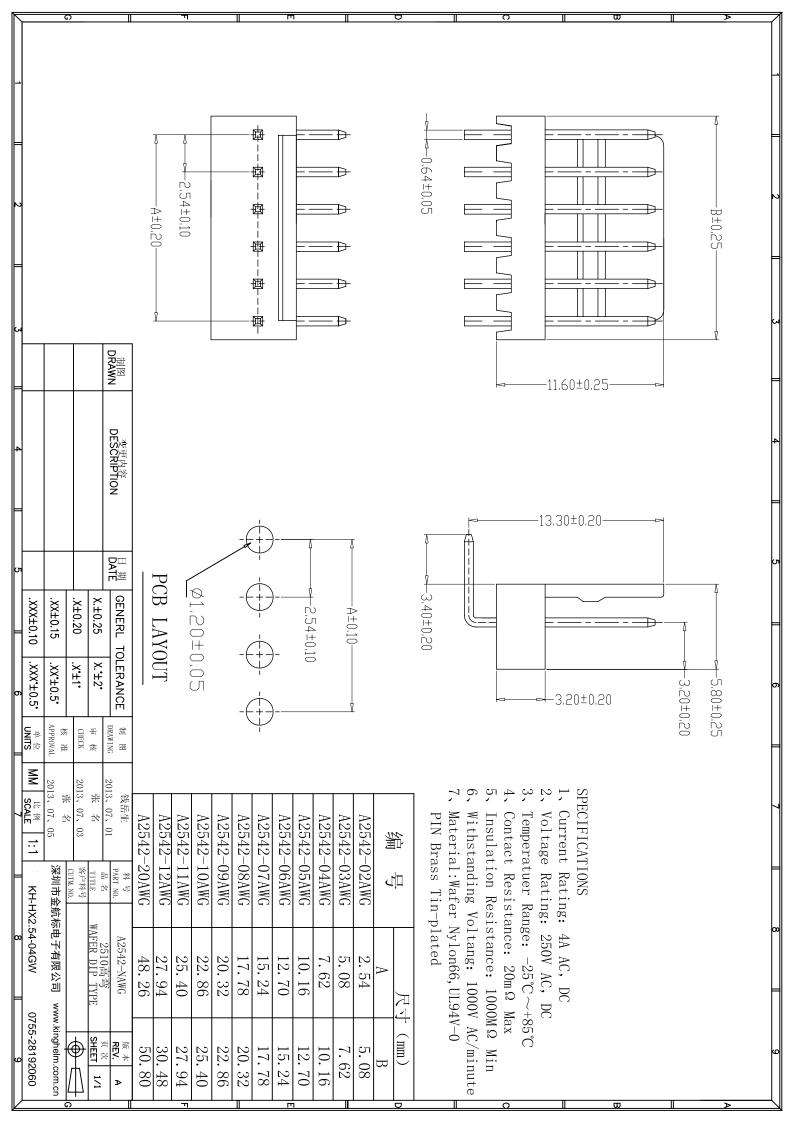
贮存

(1) The connector of packing finished should be in the ambient temperature between-10°C to+40°C, 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



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