



**标准&定制开关连接器产品制造商**  
DONG GUAN XI BANG ELECTRONICS CO., LTD.

# 规格书 SPECIFICATION

CUSTOMER NAME	客户名称:	_____
CUSTOMER NO.	客户编号:	_____
SERIES	系列:	RJ45网口连接器
MODEL NO.	型号:	XB-RJ45 series
DRAWING NO.	图形号:	RJ45 Jack Connector

If specification of this product meets your request, please confirm all the items of it and return to us with signature and stamp, it will be basis of our production and record. Thanks your cooperation in advance!

若此产品规格符合贵司要求，敬请确认此规格书内所有项目  
并签名和盖章后回传给我司，以作我司产品制作之  
依据和存档之用，多谢合作！

## EXAMINE & APPROVAL 审批

APPROVE 接受	NOT APPROVE 不接受
SIGNATURE 签署      STAMP 盖章      DATE 日期	

PREPARED BY.制表人	CHECKED BY.校对	APPROVED BY.审核	APPROVAL BY.批准
<div style="border: 1px solid red; padding: 2px;">研发部</div> <div style="border: 1px solid red; padding: 2px;">戴海明</div> <div style="border: 1px solid red; padding: 2px;">2022.06.08</div>	<div style="border: 1px solid red; padding: 2px;">品质部</div> <div style="border: 1px solid red; padding: 2px;">黄自清</div> <div style="border: 1px solid red; padding: 2px;">2022.06.08</div>	<div style="border: 1px solid red; padding: 2px;">工程部</div> <div style="border: 1px solid red; padding: 2px;">庞军</div> <div style="border: 1px solid red; padding: 2px;">2022.06.08</div>	<div style="border: 1px solid red; padding: 2px;">总经理办</div> <div style="border: 1px solid red; padding: 2px;">吴量</div> <div style="border: 1px solid red; padding: 2px;">2022.06.08</div>

**东莞市溪榜电子有限公司**

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Quality core! Afterburner for Made in China!

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东莞市溪榜电子有限公司  
DONG GUAN XI BANG ELECTRONICS CO.,LTD

尺寸检验报告Size inspection report

检验日期Inspection date :2023.04.21

NO:XB23042101

客户/厂商Customer:			样品名称Sample name:					送样日期 Send date		2023.04.21
样品数量Sample QTY:			样品料号sample P/N:XB-RJ45							
尺寸 检 验  Dimen siona l inspe ction	序号 no	规格 Specificatio n	样品1 Sample1	样品2 Sample2	样品3 Sample3	样品4 Sample4	样品5 Sample5	OK	NG	测量工具 Measuring tools
	1	15.80±0.25	15.84	15.82	15.85	15.81	15.87	√		
	2	11.43±0.25	11.46	11.45	11.45	11.44	11.48	√		
	3	21.15±0.25	21.20	21.22	21.18	21.22	21.23	√		
	4	13.75±0.25	13.70	13.71	13.74	13.68	13.72	√		
	5	10.75±0.25	10.78	10.79	10.77	10.78	10.76	√		
	6	8.89±0.25	8.95	8.99	8.92	8.97	8.96	√		
	7	4.06±0.25	4.14	4.09	4.11	4.12	4.08	√		
	8	2.54±0.25	2.50	2.56	2.53	2.51	2.57	√		
	9	3.05±0.25	3.15	3.14	3.10	3.11	3.14	√		
	10	3.00±0.30	2.88	2.93	2.95	2.91	2.90	√		
	11	3.50±0.25	3.61	3.64	3.59	3.62	3.66	√		
	12	3.50±0.25	3.45	3.49	3.45	3.46	3.48	√		
	13	3.75±0.30	3.73	3.77	3.76	3.71	3.75	√		

测量Tester: Tanfang



# 东莞市溪榜电子有限公司

## DONG GUAN XI BANG ELECTRONICS CO.,LTD

RJ Series Products Specification & Test Requirement

RJ系列产品标准规格及测试要求

Document No. : CNBF-AR012

Review:A1

### 1. Scope(适用范围)

This specification covers the requirements for product performance, test methods of GLGNET

RJ45&RJ11 series. (本规范适用于RJ45&RJ11系列产品的相关功能要求及测试方法等)

### 2. Structure & Components. (结构及组成)

See the construction drawing. (详见工程图)

### 3. Ratings (标准值)

Rated Voltage (额定电压) : 125VAC

Rated Current(额定电流) : 1.5A

Operating Temperature(工作温度) : -40°C~+85°C

Stockpile Temperature (储存温度) : -40°C~+85°C

### 4. Performance & Test Description (功能及试验说明)

4.1 Products must be meet the electrical, mechanical and environment performance requirements specified in 5.2. (产品必须满足如下5.2中的电气. 机械及环境等方面的功能要求)

### 5. Test Requirements and Procedures Summary (试验要求及说明)

#### 5.1 Test Condition (试验条件) :

All tests shall be performed as bellow conditions unless otherwise specified. (除特别说明外, 各项测试的条件为下面之说明)

5.1.1 Temperature Range: -15°C to +35°C

温度为:-15°C to +35°C

5.1.2 Humidity Range:25%to85%

湿度为: 25%to85%

### 5.2 Requirements and Test Methods (要求及方法)

#### ELECTRICAL REQUIREMENT (电气特性)

1	Contact Resistance (接触电阻)	30mΩ Max (Initial) 初始值最大30mΩ	Sub ject mated contacts assemnled housing to 20 mV maximum 100mA. Measured from plug side to PCBside. See figure 1(组装好的端子施以最大电压20mV最大电流100mA从埠处到PCB端测试) EIA-364-23B
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5.2 Requirements and Test Methods (要求及方法)

ELECTRICAL REQUIREMENT (电气特性)

2	Isulation Resistance (绝缘电阻)	500M $\Omega$ Min (最小值500M $\Omega$ )	Mated connectors with 500 $\pm$ 10%VDC between adjacent contacts or ground(对组装好的独立端子或接地物之间施以500 $\pm$ 10% VDC 的电压测试) EIA-364-21C
3	Dielectric withstanding Voltage (耐压)	Without damaged such as arcing or breakdown etc(不能有如跳电, 击穿, 破裂损坏)	Mated connectors with 1000 $\pm$ 5% VDC for 1minute 0.5mA between adjacent contacts or ground(对组装好的独立端子或接地物之间施加交流1000 VAC 0.5mA 电流1分钟) EIA-364-20B

MECHANICAL REQUIREMENT (机械特性)

4	Durability (耐久)	No damage Termination Resistance:40m $\Omega$ MAX(测试后无损坏, 最大接触阻抗100m $\Omega$ ) See Note (a)。	Operation Speed :10 to 20 cycle /min. (测试速度: 每分钟10到20个回圈) Durability Cycles:750 Cycles (测试次数: 750 Cycles Min) EIA-364-9C
5	Connector Mating Force (插入力)	22N Max	Mating connectors at maximum rate25 $\pm$ 3mm Per minute and measure the force 。 (测试组装好值连接器在每分钟25 $\pm$ 3mm的速度下之插入力) EIA-364-13B
6	Plug Retention Force (Plug保持力)	77.5N Min	Put the connector and plug in a vertical position, hang a 77.5N object at the bottom of the plug for 60s $\pm$ 5s. (测试扣合好之连接器与PLUG垂直放置, PLUG底部施以77.5N Min力, 自然吊重60s $\pm$ 5s。)



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**ENVIRONMENTAL REQUIREMENT (环境特性)**

	TEST ITEM	REQUIREMENT	PROCEDURE
7	SaltSpray (盐水喷雾)	No damage Termination Resistance:40m MAX (测试后无损坏, 最大接触阻抗 100mΩ) See Note (a)	Subject mated and unmated connectors should betested according to the condition listed below:Temperature: (35±2)℃ Humidity: (95-98)% (R. H) PH:6.5-7.2 Duration: (1u":8H;1.5u":12H;3u":24H;6u":over48H.) 【连接器如下条件下测试: (35±2)℃, 湿度: (95-98)%, PH值: 6.5-7.2, 持续时间: 1u":8H;1.5u":12H;3u":24H;6u":over48H】 It shall be subjected to standard atmospheric condition 1 h. after removing the salt deposits. (物体在移出盐水槽后应置于标准大气条件中一个小时后再进行测量动作) It should meet the contact resistance.Non-contact area(5±1)%salt-solution(35±2)℃ for 8 hours. 【待测品非接触部位测试条件: 温度: (35±2)℃, 盐水密度: (5±1)%, 时间: 8小时】 EIA-364-26B
8	Solder ability (焊锡性)	More than 95% of the dipped surface shall be wet with soldeer (锡附着的面 积应超过浸入表面的95%以上) Mechanical characteristics shall be satisfied (机械特性必须符合规格) See Note (a)	Immerse the solder pin of the connector in the solder bath at 235℃±5℃ for 5±0.5 seconds.After dipped the pin in the flux of RAM or R type 5 seconds. 【将端子脚浸入RAM或R tyep的助焊剂中5-9秒, 然后将端子脚浸入235℃±±5℃的锡炉中5±0, 5秒】 EIA-364-52
9	Resistacne to Wave Soldering Heat (耐焊性)	Without deformation of case or excessive lossen. (塑胶不能有明显的变形或损坏)	Place the connector on the P. C. Board, then immerse the solder pin up to the surface of the borard in the solder bath at Solder Temp: (PA9T 260±5℃, 5±0.5sec. 将连接器置于PC板上, 然后将露出PC板面的PIN脚部分浸入锡炉中) EIA-364-56C



**东莞市溪榜电子有限公司**  
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**ENVIRONMENTAL REQUIREMENT (环境特性)**

	TEST ITEM	REQUIREMENT	PROCEDURE
7	SaltSpray (盐水喷雾)	No damage Termination Resistance:40m MAX (测试后无损坏, 最大接触阻抗 100mΩ) See Note (a)	Subject mated and unmated connectors should betested according to the condition listed below:Temperature: (35±2)℃ Humidity: (95-98)%(R. H) PH:6.5-7.2 Duration: (1u":8H;1.5u":12H;3u":24H;6u":over48H.) 【连接器如下条件下测试: (35±2)℃,湿度: (95-98)%, PH值: 6.5-7.2, 持续时间: 1u":8H;1.5u":12H;3u":24H;6u":over48H】 It shall be subjected to standard atmospheric condition 1 h. after removing the salt deposits. (物体在移出盐水槽后应置于标准大气条件中一个小时后再进行测量动作) It should meet the contact resistance.Non-contact area(5±1)%salt-solution(35±2)℃ for 8 hours. 【待测品非接触部位测试条件: 温度: (35±2)℃, 盐水密度: (5±1)%, 时间: 8小时】 EIA-364-26B
8	Solder ability (焊锡性)	More than 95% of the dipped surface shall be wet with soldeer(锡附着的面 积应超过浸入表面的95%以上) Mechanical characteristics shall be satisfied(机械特性必须符合规格) See Note (a)	【将端子脚浸入RAM或R tyep的助焊剂中5-9秒, 然后将端子脚浸入235℃±±5℃的锡炉中5±0, 5秒】 EIA-364-52
9	Resistacne to Wave Soldering Heat (耐焊性)	Without deformation of case or excessive lossen. (塑胶不能有明显的变形或损坏)	Place the connector on the P. C. Board, then immerse the solder pin up to the surface of the borard in the solder bath at Solder Temp: (PA9T 260±5℃, 5±0.5sec. 将连接器置于PC板中) EIA-364-56C immers 然后将露出PC板面的PIN脚部分浸入锡炉中) EIA-364-56C the solder bath at 235℃±5℃ for 5±0.5



# 东莞市溪榜电子有限公司

## DONG GUAN XI BANG ELECTRONICS CO.,LTD

产品测试报告

TEST REPORT

品名P/N:

测试项目 Test item	测试条件 Test condition	测试要求 Test requirement	测试结果 Test result												
			1	2	3	4	5	6	7	8	9	10			
电气特性 ELECTRICAL	接触电阻 Contact Resistance	在 23±2℃, 相对湿度 85±5%的环境中, 插头与插座之间的接触电阻 Under the environment that temperature 23±2℃, and relative humidity 85±5%, the contact resistance between plug and socket.	8mΩ	7mΩ	8mΩ	8mΩ	8mΩ	9mΩ	8mΩ	9mΩ	8mΩ	9mΩ	8mΩ	9mΩ	10mΩ
	绝缘电阻 Insulation Resistance	在 23±2℃, 相对湿度 85±5%的环境中, 相邻金针之间加上 500V DC 或 1000V AC 1 分钟 Apply 500V DC or 1000V AC for 1minute between adjacent terminal under condition of 23±2℃, relative humidity 85±5%	∞	∞	∞	∞	∞	∞	∞	∞	∞	∞	∞	∞	∞
	耐压测试 Withstand Voltage	在 23±2℃, 相对湿度 85±5%的环境中, 在相邻的两个端点要求 1000V AC 1分钟; 在端子和屏蔽壳之间要求 1000V AC 一分钟。 Apply 1000V AC for 1minute between adjacent terminal under condition of 23±2℃, relative humidity 85±5%, and apply 1000V AC between terminal and shield for 1 minute	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK
机械特性 MECHANICAL	插拔力 Insertion Force	将与之相配合的插头以 10mm/S 的速度水平插入插座 Insert applicable plug at a rate of 10mm/S	14N	13N	14N	14N	14N	14N	15N	14N	14N	14N	14N	14N	13N
	配合强度 Retention Strength	将插头从插座中以 10 mm/s 的速度水平拔出, 当拉力计指针读至 77N 时停止。 The plug from the socket level out at the rate of 10 mm/s, when the tension gauge pointer to read to 77 N stop	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK
机械寿命 Durability	将插头以 10 次/分的速度水平插入插座再水平拔出, 反复插拔 750 次 Rate up to 750 repeating cycles at a rate of 10cycles/min	测试前与测试后的接触阻抗 △≤10mΩ The contact impedance before and after test △≤10mΩ	1mΩ	2mΩ	3mΩ	1mΩ	2mΩ	3mΩ	2mΩ	2mΩ	2mΩ	2mΩ	2mΩ	3mΩ	2mΩ
		判定 Sentence	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK

审核 Checker: 庞东

测试 Tester: 杨军

吴量 日期 : 2023.4.21





# 东莞市溪榜电子有限公司

## DONG GUAN XI BANG ELECTRONICS CO.,LTD

产品测试报告

TEST REPORT

品名P/N:

测试项目 Test item	测试条件 Test condition	测试要求 Test requirement	测试结果 Test result										
			1	2	3	4	5	6	7	8	9	10	
可焊性试验 Solder ability	将引脚/屏蔽壳铁脚浸入到焊锡槽里, 温度 245±5℃, 时间为4±1秒。 Will pin/shielding shell immersed into the solder groove iron foot, 245±5℃ temperature, time for 4±1s	引脚/铁脚 95%以上有锡、无气泡、虚焊现象, 光泽度良好。 Pin/iron feet more than 95% tin, no bubble, virtual welding phenomenon, glossiness is good	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK
环境特性 ENVIRONMENT	耐高温试验 Heat Resistance	样品在 85±2℃放置 240 小时, 要求测试前与测试后的接触阻抗 $\Delta \leq 10m\Omega$ Put the samples under the condition of 85±2℃ for 240 hours, The contact impedance before and after test $\Delta \leq 10m\Omega$	外观良好 Appearance be OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK
	盐雾试验 Salt Spray	溶液为 PH 值为 6.5-7.2 的 5±1%NaCl 溶液, 连续喷雾。试验温度为 35±2℃, 喷雾时间为 8 小时 Expose to following salt mist conditions : concentration : 5±1 % PH:6.5-7.2, continuous spray 。 temperature : 35±2℃, Spraytime: 8 hours	要求测试前与测试后的接触阻抗 $\Delta \leq 10m\Omega$ The contact impedance before and after test $\Delta \leq 10m\Omega$	3m $\Omega$	2m $\Omega$	2m $\Omega$	1m $\Omega$	2m $\Omega$	2m $\Omega$	3m $\Omega$	2m $\Omega$	2m $\Omega$	2m $\Omega$
		10 倍显微镜观察实验品表面无腐蚀现象。 The sample's surface without cattery to inspect by 10X microscope	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK
	判定 Sentence		OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK

审核 Checker: 庞东

测试 Tester: 杨军

吴量 日期 : 2023.4.21



TEST REPORT

品名P/N:

测试项目 Test item		测试条件 Test condition	测试要求 Test requirement	测试结果 Test result											
				1	2	3	4	5	6	7	8	9	10		
环境特性 ENVIRONMENT	耐寒性 Cold resistance test	样品在 -40±2℃. 放置 96 小时, 要求测试前与测试后的接触阻抗 $\Delta \leq 10\text{m}\Omega$ Put the samples under the condition of -40±2℃ for 96 hours, The contact impedance before and after test $\Delta \leq 10\text{m}\Omega$	要求测试前与测试后的接触阻抗 $\Delta \leq 10\text{m}\Omega$ The contact impedance before and after test $\Delta \leq 10\text{m}\Omega$	1m $\Omega$	2m $\Omega$	3m $\Omega$	2m $\Omega$	2m $\Omega$	2m $\Omega$	3m $\Omega$	1m $\Omega$	2m $\Omega$	2m $\Omega$	2m $\Omega$	3m $\Omega$
	温湿度测试 Temperature and humidity test	样品在 25~65℃ 和 90 to 95% RH. 放置 96 小时, 要求测试前与测试后的接触阻抗 $\Delta \leq 10\text{m}\Omega$ Put the samples under the condition of 25~65℃ and RH 90 to 95% for 96 hours, The contact impedance before and after test $\Delta \leq 10\text{m}\Omega$	要求测试前与测试后的接触阻抗 $\Delta \leq 10\text{m}\Omega$ The contact impedance before and after test $\Delta \leq 10\text{m}\Omega$	2m $\Omega$	2m $\Omega$	3m $\Omega$	2m $\Omega$	2m $\Omega$	1m $\Omega$	2m $\Omega$	2m $\Omega$	2m $\Omega$	2m $\Omega$	2m $\Omega$	3m $\Omega$
电气特性 ELECTRICAL	瞬断测试 Ring Test	1.线扣用 8 磅的砝码 Hang up a 8 pounds poise on the pothook 2.摇摆角度: 360 度 : Swing angle:360 degree 3.速度: 3 圈/分钟 Speed :3circles/minute 4.测试时间: 2 分钟,正 3 圈,反 3 圈; Time: 2 minutes clockwise 3circle and counter-clockwise 3circle) 5.产品测试前插拔 750 次; Mate up the Plug and Jack for 750 times before test 6.水晶头金片高度 5.89~5.92mm; Blade height : 5.89~5.92mm 7.仪器:微秒级,设定 0.1 微秒; Instrument : microsecond grade ,0.1microsecond	2 分钟之内所有 PIN 针均无瞬断现象 Within 2 minutes all the contact point Without open up	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK
				判定 Sentence	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK

审核 Checker: 庞东

测试 Tester: 杨军

吴量 日期 : 2023.4.21

### 镀金G/Fu"厚度测试报告

样品名称 样品002  
测量次数 5  
设备名 Thick800A(Semi-Detector)  
工作曲线 AuLa-Ni-Cu  
测量日期 2023/02/20 14:16:18

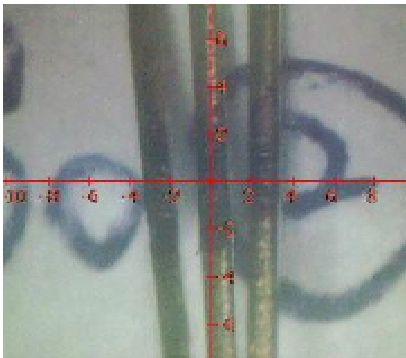
测量时间 40s  
管压 45Kv  
管流 700uA  
供应商 skyray  
操作员 Administrator

#### 测量结果

样品名	日期	镀层Au (um)	镀层Ni (um)
样品002	2023/02/20 14:16	0.0076	1.27
样品002	2023/02/20 14:36	0.00761	1.26
样品002	2023/02/20 14:47	0.00762	1.28
样品002	2023/02/20 14:58	0.00759	1.26
样品002	2023/02/20 15:16	0.00762	1.27

#### 统计值

统计项	镀层Au (um)	镀层Ni (um)
最小值	0.00759	1.28
最大值	0.00762	1.26
平均值	0.007605	1.27
标准偏差	0.0002	0.031
相对标准偏差	1.309%	3.302%





# 东莞市溪榜电子有限公司

## DONG GUAN XI BANG ELECTRONICS CO.,LTD

端子镀锡100u"(2.54um)厚度测试报告

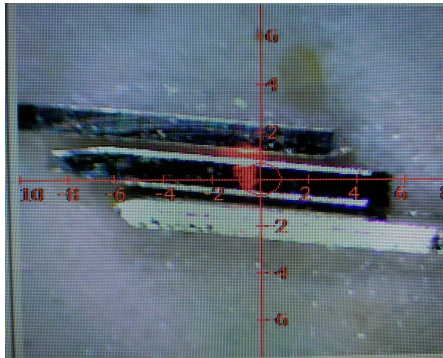
样品名称 镀锡端子 样品005 测量时间 30s  
测量次数 5 管压 45Kv  
设备名 Thick800A(Semi-Detector) 管流 700uA  
工作曲线 Sn-Ni-CuZn 供应商 skyray  
测量日期 2023/02/12 13:12 操作员 Administrator

### 测量结果

样品名	日期	镀层Sn(u")	镀层Ni(u")
样品005	2023/02/12 14:32	148.49	66.2
样品005	2023/02/12 14:35	154.23	69.3
样品005	2023/02/12 14:38	138.24	71.5
样品005	2023/02/12 14:41	130.26	76.8
样品005	2023/02/12 14:45	129.27	63.5
样品005	2023/02/12 14:47	134.00	68.7
样品005	2023/02/12 14:49	146.78	79.6
样品005	2023/02/12 14:51	157.46	76.4
样品005	2023/02/12 14:53	149.28	66.4
样品005	2023/02/12 14:55	143.36	76.9

### 统计值

统计项	镀层Sn(u")	镀层Ni(u")
最小值	129.27	63.5
最大值	157.46	79.6
平均值	143.137	71.53
标准偏差	9.851629363	5.554187609
相对标准偏差	6.88%	7.76%





# 东莞市溪榜电子有限公司

## DONG GUAN XI BANG ELECTRONICS CO.,LTD

铜壳镀镍20u"(0.50um)厚度测试报告

样品名称 样品005

测量时间 30s

测量次数 5

管压 45Kv

设备名 Thick800A(Semi-Detector)

管流 700uA

工作曲线 Ni-Cu

供应商 skyray

测量日期 2023/02/13 0:00

操作员 Administrator

### 测量结果

样品名	日期	镀层Ni (um)
样品005	2023/02/13 0:00	0.672
样品005	2023/02/13 0:00	0.682
样品005	2023/02/13 0:00	0.674
样品005	2023/02/13 0:00	0.654
样品005	2023/02/13 0:00	0.669

### 统计值

统计项	镀层Ni (um)
最小值	0.654
最大值	0.682
平均值	0.670
标准偏差	0.010
相对标准偏差	1.103%

