



深圳市祥云飞武科技有限公司

Shenzhen City Xiangyunfeiwu Technology Co., Ltd.

产 品 规 格 承 认 书

SPECIFICATION FOR APPROVAL

客 户 : RIC Inc.
CUSTOMER
客户物料编号 : RJ-111B002HWA1D
CUSTOMER PART NO
物料名称 : RJ45 CONNECTOR
PART NAME
文件编号 : 2017101701
PILE NO.
日 期 : 2017-10-17
DATE

为明确客户需求及提供令客户满意的产品，为今后合作顺畅及避免意见分歧，
请客户在确认合格后将样品承认书尽快回签，谢谢！

本厂工程部批核：
ENGINEERING DEPT
制作：
ISSUED
审核：
CHECKED
日期：
DATE

客户确认签章：
APPROVED BY CUSTOMER
确认：
CONFIRM
审核：
CHECKED
日期：
DATE

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Catalogue of specifications for approval

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16. QPN-G materials environmental-protection report	
17. QPN-N materials environmental-protection report	

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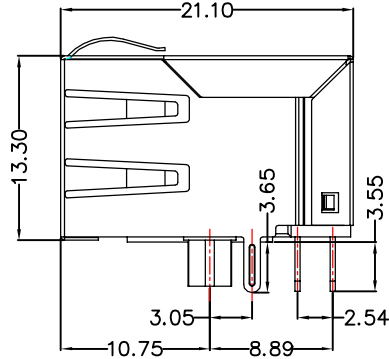
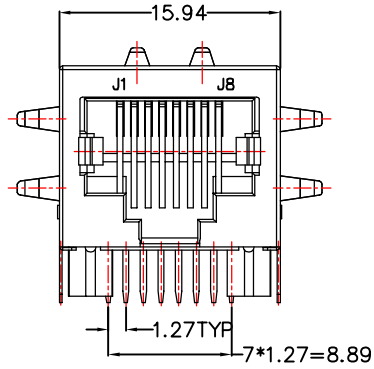
20. Multi-layer ceramic capacitor materials environmental-protection report

21. Array chip resistors materials environmental-protection report

22. Silica gel materials environmental-protection report

RoHS CONFORM

REV.	ECN / DESCRIPTION	BY	DATE

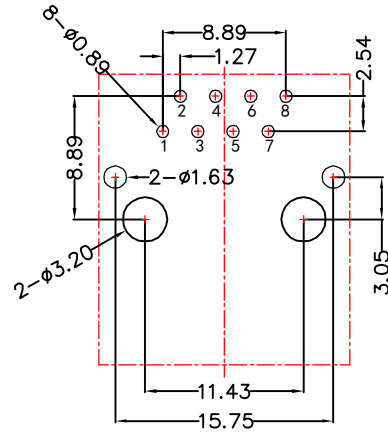
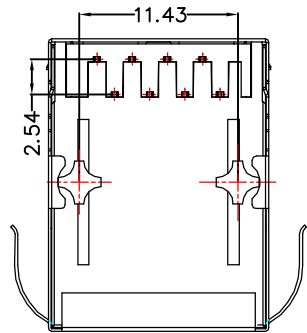


Material:

Housing :PBT+30%GF,UL94V-0,Black.
 Plastic bracket :PBT+30%GF,UL94V-0,Black.
 Shell: C2680R-H,T=0.20mm,Nickel plated on all area.
 Contact terminal:Phosphor bronze C5210R-EH,T=0.35mm,
 Gold plated 6u" on mating area.

Mechanical:

Durability :750 cycles Min.
 Mating force :30N Max.
 Operating temperature:-40°C~+85°C.
 Storage temperature: : -40°C~+85°C.



PCB LAYOUT

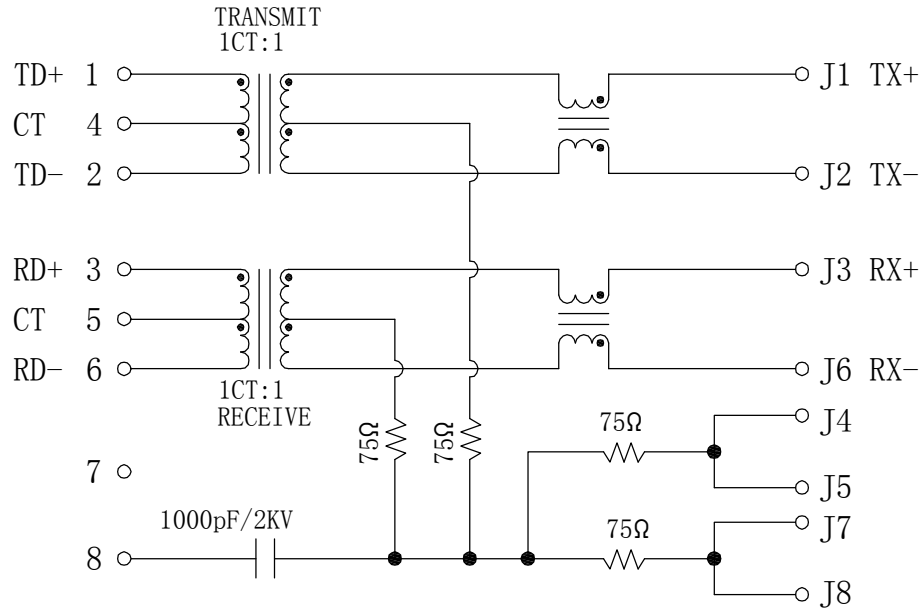
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深圳市祥云飞武科技有限公司
 Shenzhen City Xiangyunfeiwu Technology Co., Ltd.

TITLE: TAB-DOWN 1X1 100BASE	SIZE A4	UNITS MM[INCH]	GENERAL TOLERANCES UNLESS SPECIFIED		APPROVED BY: JP.Gong
PART NO.: RJ-111B002HWA1D	SACLE 1:1	REV A0	x±0.25 .x±0.20	x°±3.0° .x°±2.0°	CHECKED BY: Xu.TW
DWG NO.:	SHEET 1/3		.xx±0.10 .xxx±0.05	.xx°±1.5° .xxx°±1.0°	DESIGND BY: Qu.mq

RoHS CONFORM

REV.	ECN / DESCRIPTION	BY	DATE



Electrical:

1. Insulation resistance: 500 megohms MIN @500VDC.
2. Contact resistance: 20 milliohms Max. initial.
50 milliohms Max. after durability test.
3. Turn Ratio: 1~2: J1~J2=1CT:1CT(±2%).
3~6: J3~J6=1CT:1CT(±2%).
4. OCL: 350uH Min. at 100KHz 100mV 8mA DC.
5. Insertion Loss: -1.0 dB Max 1MHz to 100MHz.
6. Return loss: -16dB Min From 1MHz to 30MHz;
-14dB Min From 30MHz to 60MHz;
-10dB Min From 60MHz to 80MHz.
7. Cross talk: -40dB Min From 1MHz-30MHz;
-35dB Min From 30MHz-60MHz;
-30dB Min From 60MHz-100MHz;
8. CMR: -35dB Min From 1MHz-100MHz;
9. Hi-Pot: 1500V AC 6S 1mA

XYFW

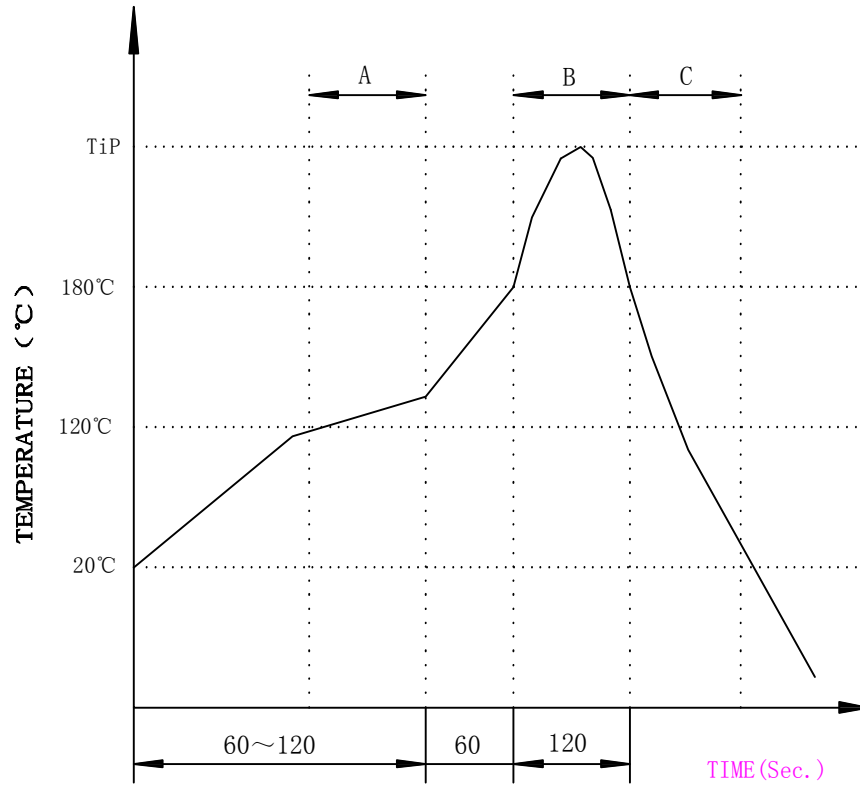
深圳市祥云飞武科技有限公司
Shenzhen City Xiangyunfeiwu Technology Co., Ltd.

TITLE: TAB-DOWN 1X1 100BASE	SIZE A4	UNITS MM[INCH]	GENERAL TOLERANCES UNLESS SPECIFIED		APPROVED BY: JP.Gong
PART NO.: RJ-111B002HWA1D	SACLE 1:1	REV A0	x±0.25	x°±3.0°	CHECKED BY: Xu.TW
DWG NO.:	SHEET 2/3		.xx±0.10	.xx°±1.5°	DESIGND BY: Qu.mq
			.xxx±0.05	.xxx°±1.0°	

RoHS CONFORM

PROFILE OF WAVE SOLDER

REV.	ECN / DESCRIPTION	BY	DATE



A.Preheating B.Soldering C.Gradual Cooling
 Tip temperature:260±5°C.
 Tip temperature time:5Sec Max.
 Tip melting point of Sn96.5/Ag3/Cu0.5:217°C.

After the wave solder, the plastic column of product under the pcb will have a slight plastic melting situation .

XYFW

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TITLE: TAB-DOWN 1X1 100BASE	SIZE A4	UNITS MM[INCH]	GENERAL TOLERANCES UNLESS SPECIFIED		APPROVED BY: JP.Gong
PART NO.: RJ-111B002HWA1D	SACLE 1:1	REV A0	x±0.25 .x±0.20	x°±3.0° .x°±2.0°	CHECKED BY: Xu.TW
DWG NO.:	SHEET 3/3		.xx±0.10 .xxx±0.05	.xx°±1.5° .xxx°±1.0°	DESIGND BY: Qu.mq

1	2	3	4	5	6	7	8		
No.	材料 material	规格描述 Specification description	Q' TY/ Carton	本文件适用范围 Scope of application of this document	Weight/ Carton (kg)	REV.	ECN/DESCRIPTION	BY	DATE
1	吸塑盘Clamshell tray combo	PET材质120格; 120 cells PET transparent Size:320*320*23mm	9sets/carton	1. RJ45 21.3mm单口千兆 2. RJ45反口 单口千兆	8.20 8.15	A0	NEW RELEASE	Xu.TW	10/18'16
2	订书针Staples	Commonly used specifications	36pcs/carton			A1	uniform packing requirements	Xu.TW	11/11'16
3	纸箱Carton	K=K colorized; size:330*330*270mm	1pcs/carton	Note: 包装材料重量:1.80kg one carton + 9 trays + 10 Foams weighth: 1.80kg.					
4	泡棉Foams	White, size:320*320*5mm	10pcs/carton						
5	标签Label	White self adhesive, size:paper80*50mm	1pcs/carton						
6	透明胶纸 gummed paper	wide:55mm, transparent	many						

Step. 1

a. 将单个产品放入对应120格吸塑盒内.
put the single finished product in the tray.

b. 对每盘装好产品的吸塑盒盖上上盖并于两侧打钉固定.
when the tray full of products, Staples will be fixed around the plate

120 pcs products/tray

Step. 2

a. 将9 盘装好产品并打钉固定的产品放入一箱内, 每层都要使用5mm厚泡棉隔开.
pack 9 trays product to one carton, Each layer uses foam separated.

120 pcs / tray; 9 traps / carton.

Step. 3

a. 用封箱胶纸将纸箱进行封箱作业.
Seal the carton with sealing tape .

b. 在产品固定一侧右上角贴上产品物料标签
Stick a piece product label on the designated location of the carton.

1080 pcs / carton.

ASSEMBLY DRAWING		GENERAL TOLERANCES UNLESS SPECIFIED		APPROVED BY:D JP.Gong	TITLE: RJ45 21.3mm单口 1000M 包装规范 RJ45 90degree type single port Packaging specification	XYFWCN	
SIZE A4	UNITS MM [INCH]	X±0.25 .X±0.20	X° ±3.0° X° ±2.0°	CHECKED BY: Xu.TW	PART NO. :		
SCALE 1:1	REV. A1	.XX±0.10 .XXX±0.05	.XX° ±1.5° .XXX° ±1.0°	DESIGND BY: Xu.TW	DWG NO. : GCW-A-15		

SHEET
1/1

RJ45网络连接器产品规格书

RJ45 MODULAR JACKS PRODUCT SPECIFICATION

1.0.SCOPE(范围)

本规格书涵盖了 RJ45 网络连接器的外观、电气测试等品质通用要求与检测方法。

This product specification covers performance, tests and quality requirements and methods for RJ45 connector.

2.0.APPLICABLE DOCUMENTS 适用文件

下列文件详述本产品的规定及规范。除另有规定外，以该文件版本为最新。在此之间的规范和产品图纸的要求发生冲突时，以产品图纸为准。在此之间的规范和参考文件的要求发生冲突时，以本规范为准

The following documents form a part of this specification to the extent specified herein. Unless otherwise specified, the latest edition of the document applies. In the event of conflict between the requirements of the specification and the product drawing, the product drawing shall take precedence.

In the event of conflict between the requirements of this specification and the referenced documents, this specification shall take precedence.

2.1 测试程序 Test Procedure

- RJ45 连接器正向力 (Normal Force) 测试指示
- RJ45 连接器插头与插孔动态/静态保持力测试指示
- RJ45 连接器接触电阻测试指示

2.2 工业标准 Industry Standards

- ANSI X3.263: 信息技术——光纤分布式数据接口 (FDDI) 与使用双绞线作为物理层媒介 (TP-PMD) 的令牌网
ANSI X3.263: Information Technology - Fiber Distributed Data Interface (FDDI) -Token Ring Twisted Pair Physical Layer Medium Dependent (TP-PMD)
- E IA/TIA-568-B.2: 商业建筑电讯电缆标准——第 2 部分: 平衡式双绞线线缆组件
EIA/TIA-568-B.2: Commercial Building Telecommunications Cabling Standard - Part 2: Balanced Twisted Pair Cabling Components
- IEEE 802-3: 局域网: 载波监听多路访问/冲突检测 (CSMA/CD) 访问方式和物理层规格
IEEE 802.3: Local Area Networks: Carrier Sense Multiple Access With Collision Detection (CSMA/CD) Access Method and Physical Layer Specification
- EIA-364: 包含环境分级的电子连接器和插孔的测试方法
EIA-364: Electrical Connector/Socket Test Procedures Including Environmental Classifications
- FCC Part68: 连接电话的终端设备, 连接器规格
FCC Part 68: Connection of Terminal Equipment to the Telephone, Connector Specifications

3.0.REQUIREMENTS 要求:

3.1 一般规格 General Specification

3.1.1 额定电流 Current Rating:1.5A DC /Contact, 20mA DC for LED signals

3.1.2 额定电压 Voltage Rating:125V AC /Contact, 2.0 volts DC for LED signals

3.1.3 工作环境 Operating Environment

标准温度 Standard Temperature: -20℃~+70℃

工业温度 Industrial Temperature: -40℃~+85℃ (根据客户要求 According to customer request)

湿度 Humidity: 20~70%

3.1.4 储存环境 Storage Environment

温度 Temperature: -40 to + 85 °C

湿度 Humidity: 20%~70%

3.1.5 测试环境 Test Environment

温度 Temperature: +20℃~+30℃

湿度 Humidity: 25%~65%

大气压 Atmospheric Pressure: 86-106KPA

3.2 材料规格 Material Specification

3.2.1 塑胶主体 Housing :热塑性材料,阻燃等级 UL94V-0, (Thermo-plastic, UL94V-0.)

塑胶盖子 Cover : 热塑性材料,阻燃等级 UL94V-0, (Thermo-plastic, UL94V-0.)

端子 Contact : 铜合金 Alloy Copper

外壳 Shield : 铜合金 Alloy Copper

如客户指定材料, 则请参考所附客户图

Please refer to the customer drawing when customer has specified

3.2.2 产品尺寸及电镀 Product dimensions and plating:

请参考产品图纸或物料编码原则

Please refer to the product drawing or product numbering code

3.2.3 产品需要满足环境有害物质管理要求

The hazardous substance should be compliant to requirement about HSF

3.3. 外形尺寸 Dimension

See applicable product drawing 参考产品图面

3.4 性能与测试描述 Performance and Test Description

本类型产品能够满足表 1 所列的电性能、机械性能和环境要求。除非特别指明, 否则所有测试均应当按照 EIA-364 规定环境条件中进行。

Product is designed to meet the electrical, mechanical and environmental performance requirements specified in Figure 1. Unless otherwise specified, all tests shall be performed at ambient environmental conditions per EIA-364.

3.5 测试要求和方法汇总（表 1） Test Requirements and Procedures Summary （Table 1）

产品外观 PRODUCT APPEARANCE			
项目 ITEM	描述 Description	测试方法 Test Methods	测试规格 Test Specification
1	产品外观 Examination of Product	Visual and dimensional inspection per product drawing. EIA-364-18B EIA-364-18B 肉眼观察, 产品外形必须符合图纸要求。	Meet requirements of product drawing and dimensional requirements of FCC Part 68, Subpart F, Connector Specification per Figure 68.500(d)(2)(i) 8 Position Series Modular Jack. 产品外观良好, 无外观不良情形, 产品结构及尺寸亦须符合图纸设计要求。
2	电镀膜厚测试 Plating Thickness Measurement	Inspect plating thickness using X-ray evaluation. EIA-364-48A, Method C EIA-364-48A, 方式 C 肉眼观察电镀层外观并使用适当的仪器设备进行膜厚测试。	Meet plating requirements defined in customer drawing 电镀层须良好, 无外观不良情况, 电镀膜厚测试须满足设计或图纸需求。

电气特性 ELECTRICAL PERFORMANCE			
项目 ITEM	描述 Description	测试方法 Test Methods	测试规格 Test Specification
1	接触电阻 Low Level Contact Resistance	Subject mated contacts assembled housing to 20 mV maximum 100 mA .Measured from plug side to PCB side. EIA-364-23C EIA-364-23C 组装好的端子施以最大电压 20mV 最大电流 100mA 从端口处到 PCB 端测试。	20 mΩ MAX (Initial) 50 mΩ MAX (Final) See notes e 初始态最大 20 mΩ 最终态最大 50 mΩ 见备注 e
2	绝缘阻抗 Insulation Resistance	Mated connectors with 500±10% VDC between adjacent contacts or ground. EIA-364-21C EIA-364-21C 对组装好的独立端子或接地物之间施以 500±10% VDC 的电压测试。	500MΩ MIN (Initial) 500MΩ MIN (Final) 初始态最小 500MΩ 测试后最小 500MΩ
3	温升测试 Temperature Rise	Measure the temperature rise of the contact at 1.5 A AC rated current, 4 hours later under 25°C , 101kPa atmospheric pressure. EIA-364-70B, Method 1 EIA-364-70B, 方式 1 在 25 摄氏度室温, 1 个大气压的环境下, 通过 1.5A 交流电流, 持续 4 小时后测定其温度上升值。	Temperature rise: 30°C max.. 温度上升最大: 30°C

4	耐压 Dielectric Withstanding Voltage	Mated connectors with 1000±5% VAC for 1 minute 0.5 mA between adjacent contacts or ground. EIA-364-20C EIA-364-20C 对组装好的独立端子或接地物之间施加交流 1000VAC 0.5mA 电流 1 分钟。	One minute hold with no breakdown or flashover. 不能有如跳电、击穿、破裂损坏。
5	LED 功能测试 LED Functional Test	Activate LEDs at application current and voltage. 根据产品图纸要求加载适当的电流和电压激活 LED。	When LEDs are present, all LED colors illuminate and meet visual requirements. 包含 LED 的产品, 点亮 LED 时, 所有 LED 正常发光且符合视觉要求。

机械性能 MECHANICAL PERFORMANCE

项目 ITEM	描述 Description	测试方法 Test Methods	测试规格 Test Specification
1	可焊性 Solder ability	Subject specimens to steam aging prior to solderability, per category 3. Solder type and temperature shall be in accordance with the intended method of mounting the product. If not specified, use RMA or R type solder flux prior to solderability test. Then immerse the solder pin into the solder bath at Solder Temp: 245°C±5°C, 3 ±0.5S. EIA-364-52, Category 3. EIA-364-52, 种类 3. 在测试可焊性之前对样品按照种类 3 进行蒸气老化处理。焊接方法和温度应当与装贴产品所希望的方法一致。假如未指定, 则按如下条件: 将端子脚浸入 RMA 或 R type 的助焊剂中(5-9)秒,然后将端子脚浸入 245°C ± 5°C 的锡炉中 3 ± 0.5 秒。	Solderable area shall have a minimum of 95% solder coverage 沾锡面积 95%以上, 无针孔
2	耐焊性 Resistance to Soldering Heat	Select below test item according to customer application condition. 1.Wave soldering Place the connector on the P.C. Board, then immerse the solder pin up to the surface of the board in the solder bath at Solder Temp: 260±5°C, 10S max. 3. IR Reflow Place the connector on the P.C. Board, then pass through the reflow oven. Temperature profile refers to customer drawing. EIA-364-56D, Condition B. EIA-364-56D, 条件 B. 依客户制程要求选择以下测试方法: 1.波峰焊制程将连接器置于 PC 板上,然后将露出 PC 板表面的 PIN 脚部分浸入锡炉中锡炉温度: 260±5°C, 不超过 10 秒。2.回流焊制程将连接器至于 PC 板上, 过回流焊炉。温度条件参考客户图纸。	1. Shall maintain electrical and mechanical functionality. 2. Shall meet visual requirements and be free of warpage that would prevent installation in customer's system. 3. LEDs (if applicable) shall be functional with no damage to the lens. 1. 塑胶不得有明显的变形或损坏而影响客户装板; 2. 电气和机械特性必须符合规格。 3. 对于包含 LED 的产品, 点亮 LED 时, 所有 LED 正常发光且符合视觉要求。

3	插拔力 Mating and Un-mating Force	Mating connectors at maximum rate 25.4millimeters/minute and measure the Insertion and Extraction force . EIA -364-13D EIA -364-13D 测试组装好之连接器在每分钟 25.4 毫米/分钟的速度下之插入力和拔出力。	30N (6.7 lbf) Max 最大 30 牛顿 (6.7 磅力) 瞬断测试 IEC-60603-7-5
4	耐久性 Durability	Operation Speed: 10 to 20 cycle/min. Durability Cycles: 750 Cycles EIA -364-09C EIA -364-09C 测试速度: 每分钟 10 到 20 个循环测试次数: 750 Cycles Min	Meet visual requirements, show no physical damage, and meet requirements of additional tests as specified in the Product Qualification Test Sequence (Table 2) 测试后满足外观要求, 无有形损伤, 并满足表 2 中规定的附加测试要求。
5	振动 Vibration	Subject mated specimens to 3.10 G's rms between 20 to 500 Hz. 90 minutes in each of 3 mutually perpendicular planes. See note d EIA-364-28E, Test Condition VII, Condition D EIA-364-28E, 测试条件 VII, 条件 D 在 20Hz-500Hz 范围内对插接好的样品施加 3.10G 有效值的随机振动, 并在 3 个相互垂直的平面上对每一个面保持 90 分钟..注 d	1. No electrical discontinuity greater than 1 u sec. 2. Loosen, crack and breakage of the plastic part and other detrimental damage shall not be observed. 1.电气上不能有超过 1 微秒 (百万分之一秒) 断讯的情形; 2.塑胶件不能有松脱、破损或其他损坏。
6	正向力 Normal Force	Mating connectors and measure the force of the contact area, using an FCC compliant modular plug. EIA-364-04 EIA-364-04 测试组装好公母头端子接触点之力, 使用 FCC 标准之插头。	100 gram force minimum 100 克力最小
7	机械冲击 Mechanical Shock	Subject mated specimens to 50 G's half-sine shock pulses of 11 milliseconds duration. Three shocks in each direction applied along 3 mutually perpendicular planes, 18 total shocks. See note d EIA-364-27B, Method A. EIA-364-27B, 方式 A. 重力加速度: 490m/s ² (50G) 波形: 半正弦波, 持续时间: 11msec 冲击次数:3 个轴 6 个面,每面 3 次共 18 次。见备注 d	1. Loosen, crack and breakage of the plastic part and other detrimental damage shall not be observed. 2. No electrical discontinuity greater than 1 u sec. 1. 塑胶件不能有松脱、破损或其他损坏; 2. 电气上不能有超过 1 微秒 (百万分之一秒) 断讯的情形发生)。

8	插头对插孔的静态保持力 Static pull, plug retention to jack, operational	<p>Subject specimens to specified force with plug mated in jack and latch engaged. Cable will pull at 45 degree angle from normal hanging axis. Force shall be applied and held for 60 seconds in each of 4 directions with force removed between each direction. Four directions will be toward latch, away from latch, and lateral to latch on each side. Plug used shall be 5.89mm (0.232 inch) overcrimped plug. EIA-364-98 EIA-364-98 在插头插入插孔并卡紧的情况下对样品施加指定大小的力。该力将线缆由正常的悬垂轴拉至 45 度角位置，并在 4 个互不相邻方向的每一方向上都分别保持 60 秒。这 4 个方向分别是超向卡槽 (Latch) 方向、正对卡槽方向以及卡槽两侧方向。插头规格为弹针压入深度为 5.89 毫米 (0.232 英寸)。</p>	<ol style="list-style-type: none"> 1. 53.4 N [12 lbf] minimum. 2. Show no evidence of physical damage to the jack, plug shall not disengage from the jack. 3. Specimens shall be free of any traffic discontinuities during the test. <ol style="list-style-type: none"> 1. 最小 53.4 牛顿 (12 磅力) 2. 插孔无明显机械损伤, 插头未脱离插孔; 3. 电气上不能有超过 0.1 微秒断讯的情形发生。
9	瞬断测试 Electrical Discontinuity Test (插头对插孔的动态保持力 Dynamic pull, plug retention to jack, operational)	<p>Subject specimens to specified force with plug mated in jack and latch engaged. Cable will pull at 45 degree angle from normal hanging axis. Weighted end of cable to be rotated through 360 degrees at a rate of 4 RPM for 3 total revolutions. Process will be repeated with 5.89mm (0.232 inch) overcrimped plug, then 6.02mm (0.237 inch) nominal plug, then 6.27mm (.247 inch) undercrimped plug. See Note c and d EIA-364-98 EIA-364-98 在插头插入插孔并卡紧的情况下对负重自然悬垂的样品施加指定大小的力。该力将线缆由正常悬垂轴拉至 45 度角位置，并使负重线缆以 4RPM 的速率连续旋转 360 度 3 圈。这一过程需分别采用弹针压入深度为 5.89 毫米 (0.232 英寸)、6.02 毫米 (0.237 英寸) 和 6.27 毫米 (0.247 英寸) 的插头重复实验。见备注 c 和 d</p>	<ol style="list-style-type: none"> 1. 33.34 N (7.5 lbf) min. 2. Show no evidence of physical damage to the jack, plug shall not disengage from the jack 3. Specimens shall be free of any traffic discontinuities during the test. <ol style="list-style-type: none"> 1. 最小 33.34 牛顿(7.5 磅力); 2. 插孔无明显机械损伤, 插头未脱离插孔; 3. 电气上不能有超过 0.1 微秒断讯的情形发生。
环境特性 ENVIROMENT PERFORMACE			

项目 ITEM	描述 Description	测试方法 Test Methods	测试规格 Test Specification
1	冷热冲击 Thermal Shock	<p>Solder each of the plug and receptacle connector to the P.C. Board, then mate them together, and expose them to the following environmental condition.</p> <p>Temperature : $-55^{\circ}\text{C}+0/- 3^{\circ}\text{C}$ (30 min.) standard atmospheric condition (10-15 min.) $\rightarrow 85^{\circ}\text{C}+3/-0^{\circ}\text{C}$ (30 min.) \rightarrow standard atmospheric condition (10-15 min.) Transition time : 5 min. max. Number of exposure : 5 cycles It shall be subjected to standard atmospheric condition for 1 to 2 hours, after which the specified measurements shall be made. EIA -364-32D, Method A, Test condition I</p> <p>EIA -364-32D, 方式 A, 测试条件 I 将公母座连接器各自焊接于 PC 板上,后将其对插再暴露(在下列条件中) 温度:置于$-55^{\circ}\text{C} +0/- 3^{\circ}\text{C}$,30 分钟再转换至标准大气条件 10~15 分钟) 再转换到 $85^{\circ}\text{C} +3/-0^{\circ}\text{C}$,30 分钟再转换至标准大气条件 10~15 分钟) 转换时间:最长 5 分钟) 暴露次数:5 次物品应置于标准大气条件中 1~2 小时后再进行测量动作。</p>	<p>Meet visual requirements, show no physical damage, and meet requirements of additional tests as specified in the Product Qualification Test Sequence (Table 2)</p> <p>满足外观要求, 无有形损伤, 并满足表 2 中规定的附加测试要求。</p>
2	温度寿命 Temperature Life	<p>Mated connectors and expose to 85°C for 500 hours, Upon completion of the exposure period, the test specimens shall be conditioned at ambient room conditions for 1 to 2 hours, after which the specified measurements shall be performed. EIA-364-17B Method A, Test Condition 3, Test Time Condition C.</p> <p>EIA-364-17B, 方式 A, 测试条件 3, 时间条件 C. 先在温度为 $85^{\circ}\text{C}\pm 2^{\circ}\text{C}$ 环境中放置 500 小时,取出于常湿常温中放置 1~2 小时后, 测试接触阻抗。</p>	<p>Meet visual requirements, show no physical damage, and meet requirements of additional tests as specified in the Product Qualification Test Sequence (Table 2)</p> <p>满足外观要求, 无有形损伤, 并满足表 2 中规定的附加测试要求。</p>
3	耐寒性 Low Temperature	<p>Mated connectors and expose to $-55\pm 3^{\circ}\text{C}$ for 96 hours, Upon completion of the exposure period, the test specimens shall be conditioned at ambient room conditions for 1 to 2 hours, after which the specified measurements shall be performed. EIA-364-59A</p> <p>EIA-364-59A 先在温度为$-55\pm 3^{\circ}\text{C}$ 环境中放置 96 小时, 取出于常湿常温中放置 1~2 小时后测试接触阻抗。</p>	<p>Meet visual requirements, show no physical damage, and meet requirements of additional tests as specified in the Product Qualification Test Sequence (Table 2)</p> <p>满足外观要求, 无有形损伤, 并满足表 2 中规定的附加测试要求。</p>

4	耐湿性 Humidity	<p>At a temperature of $40\pm 2^{\circ}\text{C}$ and relative humidity of 90% - 95% for 96 hours. Then, be left alone for 1 to 2 hours in a room ambient and test in the time. EIA-364-31B, Method I, Test condition A</p> <p>EIA-364-31B, 方式 I, 测试条件 A 温度 $40\pm 2^{\circ}\text{C}$,湿度 90% - 95%, 测试 96 小时, 测试后置于室温下 1~2 小时测试其它项目。</p>	<p>Meet visual requirements, show no physical damage, and meet requirements of additional tests as specified in the Product Qualification Test Sequence (Table 2)</p> <p>满足外观要求, 无有形损伤, 并满足表 2 中规定的附加测试要求。</p>
5	盐雾测试 Salt spray	<p>Tested as below: Temperature: $(35\pm 2)^{\circ}\text{C}$ Humidity: $(95\text{---}98)\%$ (R.H.) PH: 6.5—7.2 Duration: $X\leq 1\text{u}''$:8H; $1\text{u}'' < X < 3\text{u}''$:12H; $3\text{u}''\leq X < 15\text{u}''$:24H; $15\text{u}''\leq X < 30\text{u}''$: 48H $X = 30\text{u}''$: 72H $X = 50\text{u}''$: 96H It shall be subjected to standard atmospheric condition 1 hour after removing the salt deposits. It should meet the contact resistance. Object non-contact area: Temperature: $(35\pm 2)^{\circ}\text{C}$ Salt-solution $(5\pm 1)\%$. EIA -364-26B</p> <p>EIA -364-26B 测试条件如下: 温度: $(35\pm 2)^{\circ}\text{C}$; 湿度: $(95\text{---}98)\%$; PH 值: 6.5—7.2; 持续时间: $X\leq 1\text{u}''$:8 小时; $1\text{u}'' < X < 3\text{u}''$:12 小时; $3\text{u}''\leq X < 15\text{u}''$:24 小时; $15\text{u}''\leq X < 30\text{u}''$: 48 小时; $X = 30\text{u}''$: 72 小时; $X = 50\text{u}''$: 96 小时; 物体在移出盐水槽后应置于标准大气条件中一个小时候后再进行测量动作; 待测品非接触部位测试条件: 温度: $(35\pm 2)^{\circ}\text{C}$, 盐水密度: $(5\pm 1)\%$</p>	<p>Meet visual requirements, show no physical damage, and meet requirements of additional tests as specified in the Product Qualification Test Sequence (Table 2)</p> <p>满足外观要求, 无有形损伤, 并满足表 2 中规定的附加测试要求。</p>

3.6 可靠性测试顺序 (表 2) Product Qualification Test Sequence (Table 2)

测试或检查 Test or Examination	测试群组 Test Group (a)										
	A	B	C	D	E	F	G	H	I	J	
	测试顺序 Test Sequence										
产品外观 Examination of product	1,3	1,5	1	1,5	1,4	1,12	1,10	1,6	1,10	1,5	
接触阻抗 Low Level Contact Resistance						2,4,6	2,4,6	2,4	2,4,6	2,4	
绝缘阻抗 (Insulation Resistance)						8			8		
温升测试 (Temperature Rise)	2										
耐压 Dielectric Withstanding Voltage						9			9		
LED 功能测试 (LED functional Test)		4		4		7	9	5	7		
可焊性 (Solder ability)		2									
耐焊性 (Resistance to Soldering Heat)		3(f)									
插入力 (Mating Force)						10	7				
拔出力 (Unmating Force)						11	8				
耐久性 (Durability)						3(h)	3(h)		3		
正向力 (Normal Force)			2								
振动 (Vibration)				2							
机械冲击 (Mechanical Shock)				3							
插头与插孔静态保持力 (Plug Retention Force To Jack)					3						
插头与插孔动态保持力(Dynamic pull, plug retention to jack, operational)					2(c)						
冷热冲击 (Thermal Shock)						5					
耐温性 (Temperature Life)							5				
耐寒性 (Low Temperature)								3			
耐湿性 (Humidity)									5		
盐雾 (Salt Spray)										3	

备注 Notes :

(a). Each group with 3 pcs specimens for product which is equal to or more than 4 ports; 5 pcs specimens for product which is less than 4 ports.

4Ports 以上(含 4 Ports) 的产品，每个群组的测试样品为 3PCS, 4Ports 以下的产品，每个群组的测试样品为 5PCS。

(b). Subject specimens for UV test if they are color samples, time length one week. 如果是彩色样品，必须做紫外线试验，周期一个星期

(c): Dynamic pull, plug retention to jack, operational (Electrical Discontinuity Test) 插头与插孔动态保持力(俗称瞬断测试)测试方法

1. Place the connector under test into the holder, and insert the RJ45 plug into the connector;将待测连接器固定于测试夹具内，插入 RJ45 测试公端；
2. Adjust the speed controller to 4RPM; 调整调整器至 4RPM;
3. Adjust the arm, fix the angle of the weight cable to perpendicular line from the center of the connector to 45 degree; 调整力臂长度，待测连接器中心垂直线与 WEIGHT CABLE (线) 夹角为 45 度；
4. Apply total of 7.5 LBS weight on the weight holder; 加载 7.5 LBS 重量砝码；
5. Turn on the switch to rotate the rotator arm 6 complete revolutions at the speed of 4 RPM; 启动开关，以 4 RPM 速度旋转六周(顺逆方向交替旋转各三周)；
6. During the test: I. No electrical discontinuity greater than 0.1u sec.
II. Loosen, crack and breakage of the plastic part and other detrimental damages shall not be observed.测试过程中： I. 电气上不能有超过 0.1 微秒断讯的情形
II. 塑胶件不能有松脱破损或其他损坏

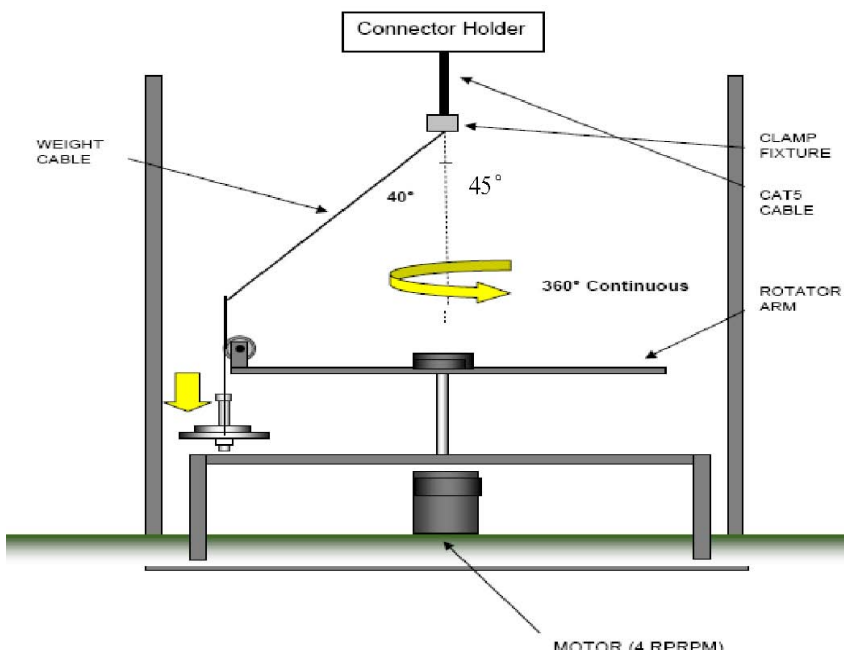
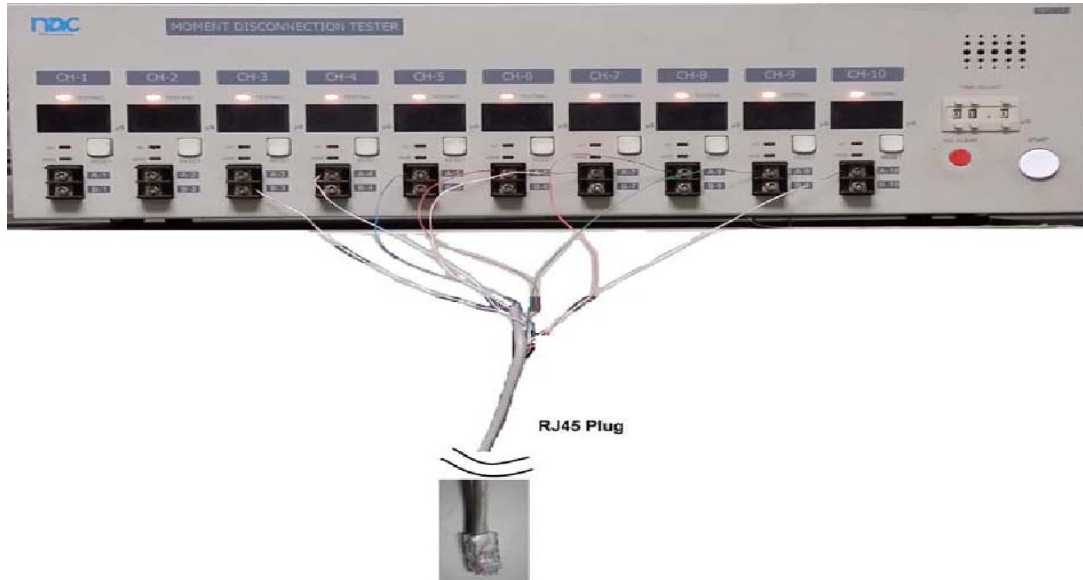


Figure 1
图示 1

7. Process will be repeated with 6.27mm [0.247 inch] undercrimped plug, 6.02mm [0.237 inch] nominal plug and 5.89mm [0.232 inch] overcrimped plug. 测试过程分别采用弹针压入深度为 5.89 毫米（0.232 英寸）、6.02 毫米（0.237 英寸）和 6.27 毫米（0.247 英寸）的插头重复试验。

(d): Discontinuity Monitoring connections for monitor 瞬断仪连接示意图



Discontinuity Monitoring Tester
Figure 2 图示 2

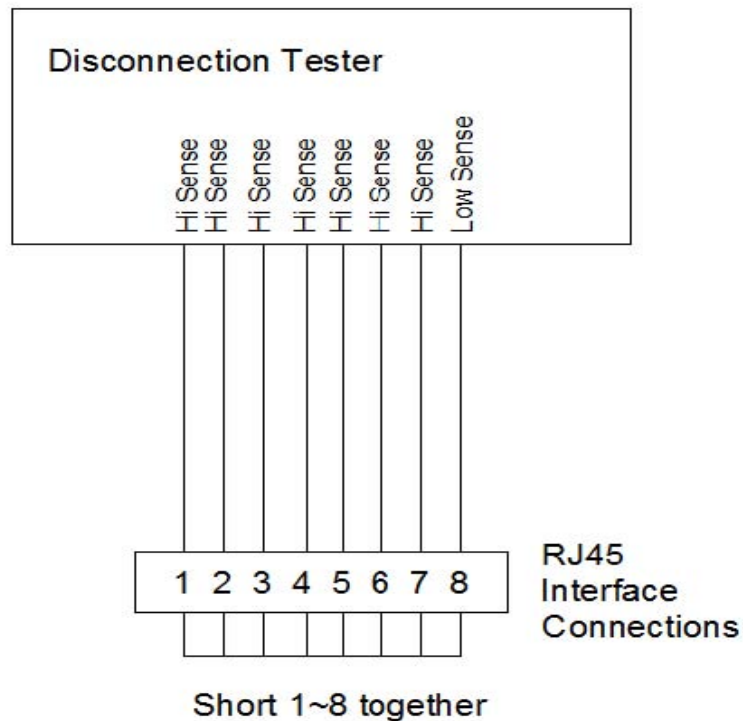


Figure 3 图示 3
Diagram shows connections for RJ Modular Jack (No transformer)

Discontinuity Monitoring for Vibration, Mechanical Shock, Dynamic pull and Static pull Plug and Jack Retention Forces.

(e): LLCR does not include the resistance of cable and internal resistance of contact wire, if have to include the resistance of cable and internal resistance of contact wire, the Initial value shall be 30mΩ. Or, to specify the variation as $\Delta 30\text{m}\Omega$ before and after experiment.

接触电阻的规格值（20mΩ initial）不包含水晶头和连接器端子的本身内阻，假如包含水晶头和连接器端子的内阻，则初始值设定为 30mΩ 较为合适。或者，仅仅考虑实验前后的变化量，不超过 30mΩ 即可。

(f): Do not perform “IR reflow soldering test” for wave soldering product.

对于非回流焊产品，耐焊性无需测试“回流焊”项目。

(g): Do not perform “LED functional test” for product without LED.

对于不带 LED 的产品，无需测试“LED 功能”项目，测试项目依序号顺序延续，5 变为 4，序号依次类推。

(h): Perform only 10 durability cycles. 执行 10 个循环的耐久测试。

(l): Since discontinuity test has been done during the random vibration and mechanical shock test, so it depends on the situation whether need to do the contact resistance or DCR test after random vibration and mechanical shock test.

机械冲击测试后是否需要接触电阻或直流电阻测试，视情况决定，因为在振动和机械冲击测试的过程中已有信号瞬断测试。

4. 品质保证方案 Quality Assurance Provisions

4.1 Qualification Testing 规格承认测试

4.1.1 Specimen Selection 样品选择

Specimens shall be prepared in accordance with standard production methods and shall be prepared as they would be for normal applications.

样品制备应当按照标准的产品生产方法并能满足一般应用场合。

Notes: Test boards for mounting the specimens shall not short the signal pins to each other and shall leave the signal pins in an open state for electrical screening tests. Test boards for mounting the specimens shall be of a thickness to allow access to signal pins for attaching electrical probes during electrical screening tests.

备注: 用于装配及固定样品的测试板不能使信号脚位相互间短路，同时需要确保信号脚位相互间处于开路状态以进行电屏蔽测试。测试板厚度应该保证在电屏蔽测试中信号脚位能够连接额外的电极探针。

4.1.2 Test Sequence 测试顺序

Qualification inspection shall be verified by testing specimens as specified in Figure 2.

规格承认测试时应当按照表 2 指明的顺序检验样品。

4.2. Requalification Testing 规格重新承认测试

If changes significantly affecting form, fit or function are made to the product or manufacturing process, product assurance shall coordinate requalification testing, consisting of all or part of the original testing sequence as determined by development/product, quality and reliability engineering.

如果产品设计或制作过程中存在影响外观、安装和功能的重大更改，产品应当进行规格重新承认测试以保证品质，视产品设计、品质和可靠性要求对产品进行全部或者对原始测试中的部分测试顺序进行调整。

4.3. Acceptance 可接受等级

Acceptance is based on verification that the product meets the requirements of Figure 1. Failures attributed to equipment, test setup or operator deficiencies shall not disqualify the product. If product failure occurs, corrective action shall be taken and specimens resubmitted for qualification. Testing to confirm corrective action is required before re-submittal.

经核实产品能否满足表 1 所列的要求来确定可接受等级。因设备、测试夹具或操作人员操作质量问题导致的测试失败应当不影响产品规格承认。当出现产品测试结果失败时，应当采取纠正措施并重建样品以承认规格。在重新提交样品之前必须有验证纠正措施有效性的测试。

4.4. Quality Conformance Inspection 品质一致性检查

The applicable quality inspection plan shall specify the sampling acceptable quality level to be used. Dimensional and functional requirements shall be in accordance with the applicable product drawing and this specification.

在相应的品质检查计划中应当指明所采用的样品可接受质量等级。尺寸和功能要求应当符合相应的产品图纸和本规格。

5. Recommended RJ Plug Specification (FCC)

参考 RJ45 标准水晶头 (FCC)

Note :- This plug is depicted with its full 8 contact capacity. It may be fabricated with less than 8 contacts.

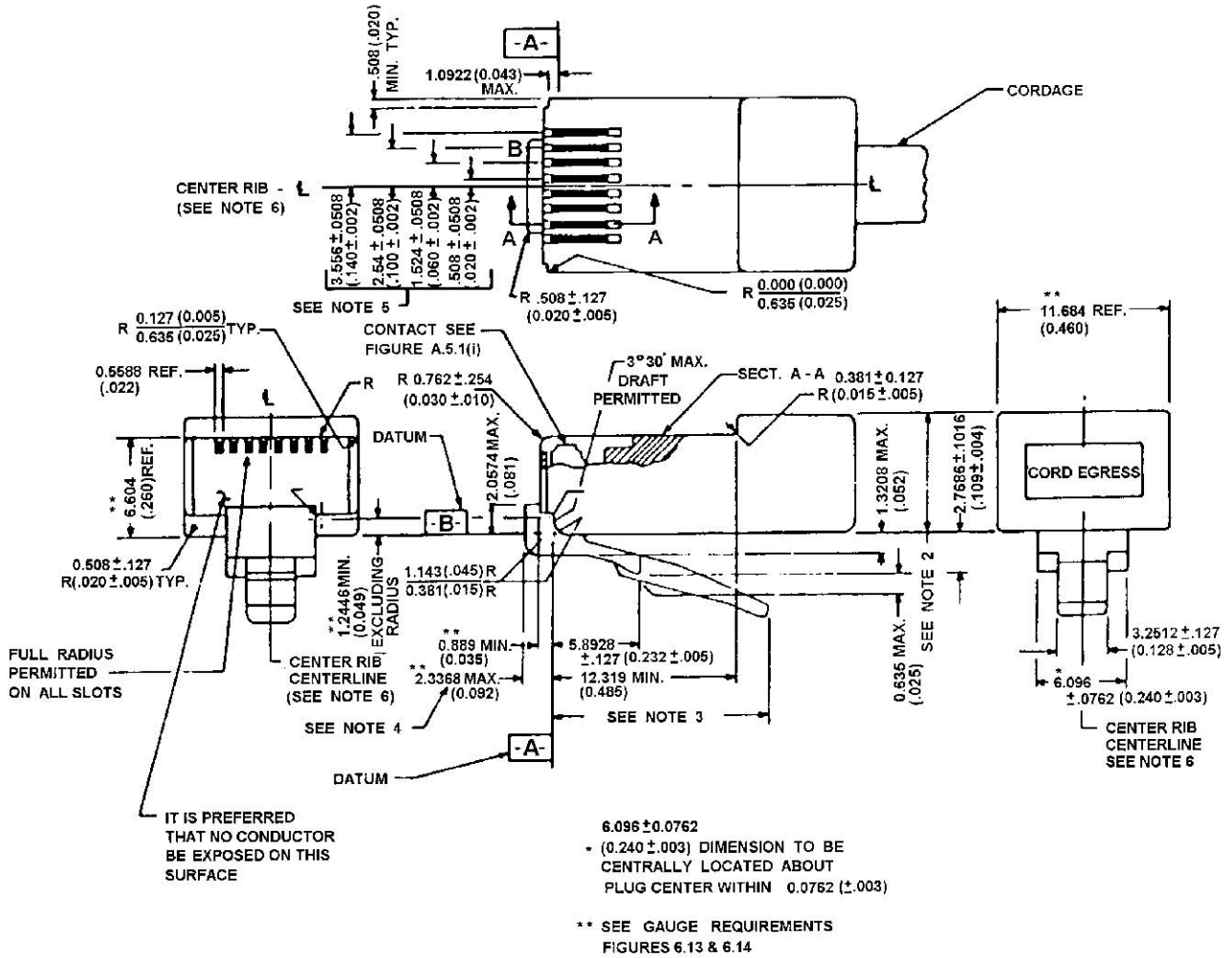


Figure 4

图 4

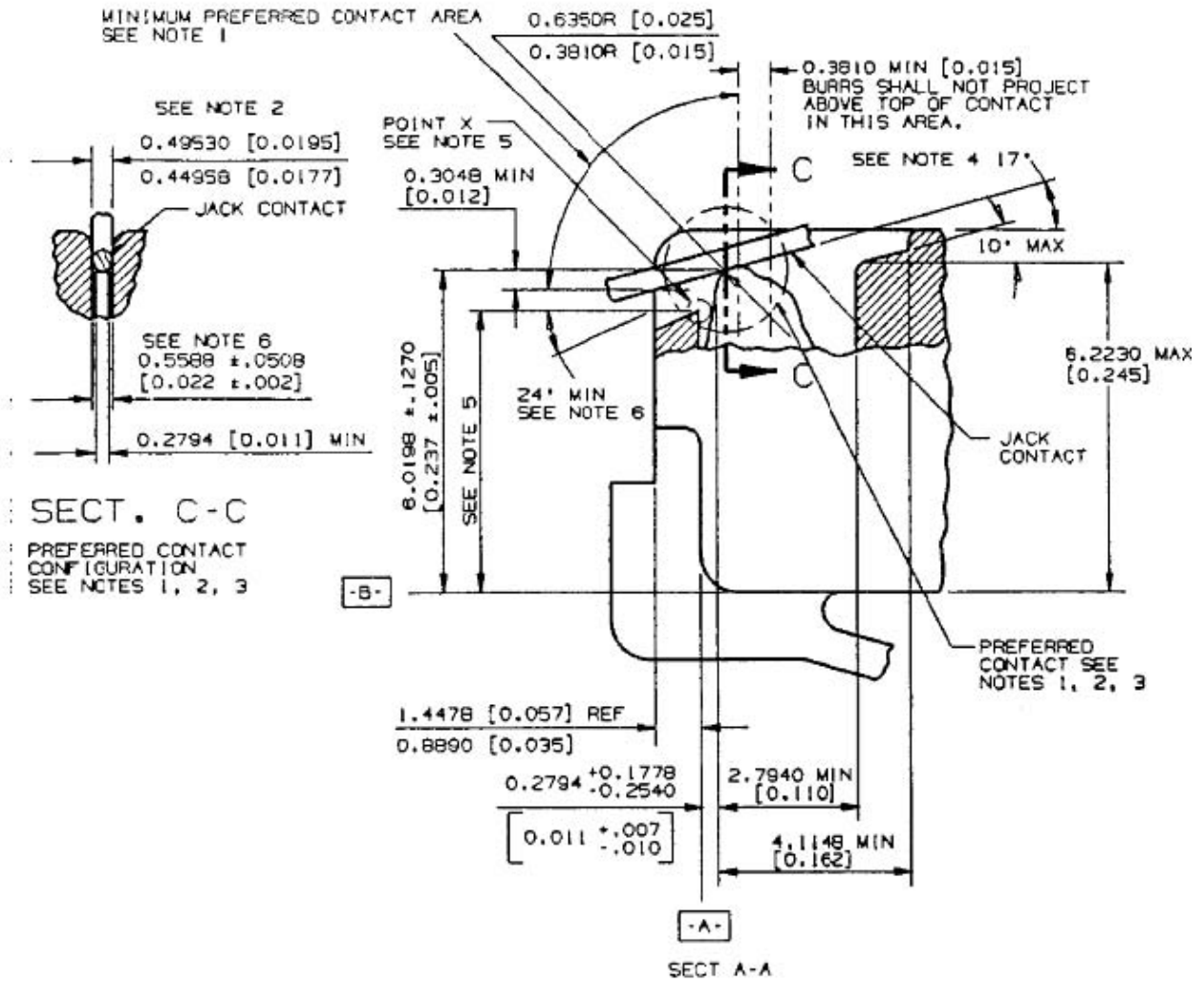



Figure 5
图 5

可靠性测试报告

样品名称	RJ45 with transformer		样品料号	RJ45S单口系列				
送样单位	品管	送样日期	2017/6/14	样品数量	5PCS			
样品其它信息	端子镀金6u"							
测试项目	<input type="checkbox"/> 盐雾测试; <input type="checkbox"/> 恒温恒湿测试; <input type="checkbox"/> 插拔力及寿命测试; <input checked="" type="checkbox"/> 其它测试:接触电阻测试							
测试目的	确认产品接触电阻电气参数符合性							
测试仪器	微电阻测试仪			测试开始时间	2017/6/14 9:20			
测试条件	组装好的端子施以最大电压 20mV 最大电流 100mA, 测试接触电阻, 参考EIA-364-23C			测试结束时间	2017/6/14 10:35			
测试步骤	1. 先测量出产品与之匹配的Plug本身的电阻值, 并记录.							
	2. 对RJ45端子本身的电阻进行测试, 并记录.							
	3. 将匹配的Plug与RJ45进行匹配, 设置仪器测试条件.							
	4. 测试Plug与RJ45末端的电阻值.							
	5. 将步骤4测试到的电阻值分别减去步骤1与步骤2的电阻值, 即为接触电阻.							
测试结果	项目	规格	样品1	样品2	样品3	样品4	样品5	判定
	接触电阻	30mΩ Max.	12.5	13.1	12.4	11.8	12.6	PASS
测试图片								

审核:




测试:

谭芳

样品名称	RJ45 with transformer		样品料号	RJ45S单口系列				
送样单位	品管	送样日期	2017/6/14	样品数量	5PCS			
样品其它信息	端子镀金6u"							
测试项目	<input type="checkbox"/> 盐雾测试; <input type="checkbox"/> 恒温恒湿测试; <input type="checkbox"/> 插拔力及寿命测试; <input checked="" type="checkbox"/> 其它测试: 绝缘电阻							
测试目的	确认产品绝缘电阻电气参数符合性							
测试仪器	绝缘电阻测试仪			测试开始时间	2017/6/14 10:40			
测试条件	对组装好的独立端子或接地物之间 (包括相邻两PIN之间) 施以500±10% VDC 的电压1分钟后测试绝缘电阻, EIA-364-21C。			测试结束时间	2017/6/14 10:55			
测试步骤	1. 对测试仪器按测试条件进行设置, 并进行归零.							
	2. 将测试仪器高压端与接地端分别夹在产品相邻两PIN上.							
	3. 进行充电, 并待电压值达到500V后, 持续1分钟.							
	4. 记录测试值, 完成后进行放电操作.							
	5. 放电操作结束后再取下产品.							
测试结果	项目	规格	样品1	样品2	样品3	样品4	样品5	判定
	绝缘电阻	500MΩ Min.	PASS	PASS	PASS	PASS	PASS	PASS
测试图片								

可靠性测试报告

样品名称	RJ45 with transformer		样品料号	RJ45S单口系列				
送样单位	品管	送样日期	2017/6/14	样品数量	5PCS			
样品其它信息	端子镀金6u"							
测试项目	<input type="checkbox"/> 盐雾测试; <input type="checkbox"/> 恒温恒湿测试; <input type="checkbox"/> 插拔力及寿命测试; <input checked="" type="checkbox"/> 其它测试: 耐电压							
测试目的	确认产品耐电压强度符合性							
测试仪器	耐电压测试仪			测试开始时间	2017/6/14 10:55			
测试条件	对组装好的独立端子或接地物之间施加交流 1500VAC 0.5mA 电流1 分钟, EIA-364-20C			测试结束时间	2017/6/14 11:00			
测试步骤	1. 对测试仪器按测试条件进行设置.							
	2. 将测试仪器高压端与接地端分别夹在产品相邻两PIN上.							
	3. 启动测试, 待测试结束, 高压警示灯熄灭后即完成测试.							
	4. 测试过程无报警中断, 即代表产品测试符合要求. 反之则为不良.							
测试结果	项目	规格	样品1	样品2	样品3	样品4	样品5	判定
	耐电压	无破裂或击穿	PASS	PASS	PASS	PASS	PASS	PASS
测试图片								

审核:



测试:

谭芳

PGR-020A

样品名称	RJ45 with transformer		样品料号	RJ45S单口系列				
送样单位	品管	送样日期	2017/6/14	样品数量	5PCS			
样品其它信息	端子镀金6u"							
测试项目	<input type="checkbox"/> 盐雾测试; <input type="checkbox"/> 恒温恒湿测试; <input checked="" type="checkbox"/> 插拔力及寿命测试; <input type="checkbox"/> 其它测试:							
测试目的	确认产品结构可靠性							
测试仪器	全自动插拔力实验机			测试开始时间	2017/6/14 11:00			
测试条件	1. 插入力测试时以后12.5mm/分钟速度; 2. 寿命(耐久)测试时以后10-20次循环/分钟速度测试.			测试结束时间	2017/6/14 12:00			
测试步骤	1. 选择符合FCC标准之水晶头与待测试产品进行匹配组装.							
	2. 对自动插拔力测试机进行参数设置与数值归零.							
	3. 将匹配好的待测试RJ45及水晶头固定于测试仪器夹具上.							
	4. 再次归零仪器力值, 并启动测试, 记录测试数据.							
	5. 将步骤4测试到的电阻值分别减去步骤1与步骤2的电阻值, 即为接触电阻.							
测试结果	项目	规格	样品1	样品2	样品3	样品4	样品5	判定
	插入力	22N Max.	1.14	1.16	1.17	1.17	1.17	PASS
	寿命测试	750次 Min.	结构及外观OK, 接触电阻小于50milliohms.					PASS
测试图片								

审核:

测试: 谭芳

可靠性测试报告

样品名称	RJ45 with transformer		样品料号	RJ45S单口系列				
送样单位	品管	送样日期	2017/6/14	样品数量	5PCS			
样品其它信息	端子镀金6u"							
测试项目	<input type="checkbox"/> 盐雾测试; <input type="checkbox"/> 恒温恒湿测试; <input type="checkbox"/> 插拔力及寿命测试; <input checked="" type="checkbox"/> 其它测试:耐湿性/恒温恒湿							
测试目的	模拟在恶劣环境下产品结构可靠性							
测试仪器	恒温恒湿箱			测试开始时间	2017/3/1 8:00			
测试条件	温度40±2℃ , 湿度90% - 95%, 测试96 小时, 测试后置于室温下1~2 小时测试其它项目, EIA-364-31B, 方式I, 测试条件A.			测试结束时间	2017/3/5 11:00			
测试步骤	1. 选择未经任何测试的新样品5pcs.							
	2. 将恒温箱按测试条件进行设置, 产品放入后启动恒温箱.							
	3. 恒温箱自动停止后, 取出产品, 测试接触电阻, 并记录.							
测试结果	项目	规格	样品1	样品2	样品3	样品4	样品5	判定
	绝缘电阻	500MΩ Min.	PASS	PASS	PASS	PASS	PASS	PASS
	外观检查	无明显变形等	PASS	PASS	PASS	PASS	PASS	PASS
测试图片								

审核:



测试:

谭芳

可靠性测试报告

样品名称	RJ45 with transformer		样品料号	RJ45S单口系列				
送样单位	品管	送样日期	2017/6/14	样品数量	5PCS			
样品其它信息	端子镀金6u"							
测试项目	<input type="checkbox"/> 盐雾测试; <input type="checkbox"/> 恒温恒湿测试; <input type="checkbox"/> 插拔力及寿命测试; <input checked="" type="checkbox"/> 其它测试: 耐温实验/温度寿命							
测试目的	模拟在恶劣环境下产品结构可靠性							
测试仪器	恒温恒湿箱			测试开始时间	2017/3/6 8:00			
测试条件	先在温度为85℃±2℃ 环境中放置500小时, 取出于常湿常温中放置1~2小时后, 测试接触阻抗, EIA-364-17B, 方式 A, 测试条件 3, 时间条件C.			测试结束时间	2017/3/27 12:00			
测试步骤	1. 选择未经任何测试的新样品5pcs.							
	2. 将恒温箱按测试条件进行设置, 产品放入后启动恒温箱.							
	3. 恒温箱自动停止后, 取出产品, 测试接触电阻, 并记录.							
测试结果	项目	规格	样品1	样品2	样品3	样品4	样品5	判定
	绝缘电阻	500MΩ Min.	PASS	PASS	PASS	PASS	PASS	PASS
	外观检查	无明显变形等	PASS	PASS	PASS	PASS	PASS	PASS
测试图片								

审核:



测试:

谭芳

可靠性测试报告

样品名称	RJ45 with transformer		样品料号	RJ45S单口系列				
送样单位	品管	送样日期	2017/6/14	样品数量	5PCS			
样品其它信息	端子镀金6u"							
测试项目	<input checked="" type="checkbox"/> 盐雾测试; <input type="checkbox"/> 恒温恒湿测试; <input type="checkbox"/> 插拔力及寿命测试; <input type="checkbox"/> 其它测试:							
测试目的	模拟在恶劣环境下产品结构可靠性							
测试仪器	盐雾实验机			测试开始时间	2017/6/6 8:00			
测试条件	中性盐雾实验标准;溶液是PH值为6.5~7.2之间的5%的NaCl溶液, 喷雾周期为: 连续喷雾。试验温度: 35±2℃。EIA -364-26B			测试结束时间	2017/6/7 8:00			
测试步骤	1. 选择未经任何测试的新样品5pcs.							
	2. 将盐雾实验机按测试条件进行设置, 产品放入后启动喷雾测试.							
	3. 测试完成后, 小心取出产品, 并用软毛刷在清水内清洗产品表面.							
测试结果	项目	规格	样品1	样品2	样品3	样品4	样品5	判定
	外观检查	无氧化与变色	PASS	PASS	PASS	PASS	PASS	PASS
测试图片								

审核: 

测试: 谭芳

長春人造樹脂廠股份有限公司

台北市 10477 松江路三零一號七樓

CHANG CHUN PLASTICS CO.,LTD.

TLX:2253 LONGLITE

NO.301 SONGKIANG ROAD, 7FL., TAIPEI. 10477 TAIWAN

FAX: (02)25033378

CABLE ADDRESS: LONGLITE TAIPEI

TEL: (02)25038131

材 質 證 明*

MATERIAL FORMULATION CONFIDENTIAL REPORT *

廠商 Customer :

材質名稱 Type of Material : PBT (Poly Butylene terephthalate)聚丁烯對苯二甲酸酯

規格 Grade : PBT 4830

說明 Description :

PBT-4830 複合材料包含 PBT 純樹脂、玻纖、溴化耐燃劑及少量添加劑。

The raw material of PBT-4830 compound contains PBT pure resin, glass fiber, flame retardant, and few of additives.

PBT 複合材料成分表

Chemical Composition of PBT Compound

組成		規格	4830	
Chemical Composition		Molecular formula	CAS Number	含量(%) Content (%)
1	PBT 樹脂 PBT resin	$(C_{12}H_{12}O_4)_n$	26062-94-2	45~63
2	玻璃纖維 Glass Fiber	$SiO_2 \cdot CaO \cdot Al_2O_3$	65997-17-3	28~32
3	耐燃劑 Flame Retardant	$(C_{18}H_{16}Br_4O_3)_n$ $(C_{16}H_{10}Br_4O_3)_n$	68928-70-1 71342-77-3	6~12
4	耐燃劑 Flame Retardant	Sb_2O_3	1309-64-4	2~4
5	添加劑 Additives	N.A.	NA	1~7

供應商 MATERIAL SUPPLIER

Company : CHANG CHUN PLASTICS CO., LTD. ZHANGZHOU FACTORY

Signature : Tseng, Ching-Neng

Address : BAOSHENG ROAD, LONGCHI DEVELOPMENT AREA,
ZHANGZHOU, FUJIAN, CHINA.

Date : Jul.04, 2006

东莞市金乐金属材料有限公司

DongGuanJinLeMetalsMaterialCo.,Ltd

产品质量证明

CERTIFICATE OF QUALITY

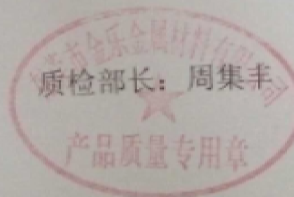
2016年1月15日

表单编号: JL-FM-032-A0
东莞市长安镇沙头社区沙区裕成路22号

Yucheng road 22 of Sha area, Shatou
community, changan town, Dongguan city
TEL:076985349000-211 FAX:076981617797

客户名称 Customer		威尔特电子科技有限公司						品名 Product Name		C5210								
客户订单号 Contract No		WT1601Y022						标准 Standard NO		JIS H 3100: 2006								
批号 Section batch	客户物料编号 Material number	规格 Material Description			重量 & 卷数 Weight&Quantity		尺寸公差 Tolerance		化学成份 Chemical composition						物理性能 Physical Property			
		厚度 Thick	宽度 Width	硬度 Temper	重量 Mass	卷数 QTY	厚度公差 Thickness	宽度公差 Width	Pb	Fe	Sn	Zn	P	Cu+Sn+P	抗拉 Noe	延伸 %	维氏硬度 HV	表面 Surface
801153	C5210EH0.35*31	0.35	31.00	EH	846.8	9	+0-0.015	+0-0.05	0.02以下	0.10以下	7.0-9.0	0.20以下	0.03-0.35	99.5以上	679	22	222	OK
合计 Total					846.8	9												

检验员:赵敏敏



东莞市金乐金属材料有限公司

DongGuanJinLeMetalsMaterialCo.,Ltd

产品质量证明

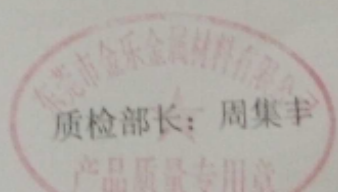
CERTIFICATE OF QUALITY

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community, changan town, Dongguan city
TEL:076985349000-211 FAX:076981617797

客户名称 Customer		威尔特电子科技有限公司							品名 Product Name		C2680							
客户订单号 Contract No		WT1601Y022							标准 Standard NO		JIS H 3100:2006							
号 Batch	客户物料编号 Material number	规格 Material Description			重量 & 卷数 Weight&Quantity		尺寸公差 Tolerance		化学成份 Chemical composition						物理性能 Physical Property			
		厚度 Thick	宽度 Width	硬度 Temper	重量 Mass	卷数 QTY	厚度公差 Thickness	宽度公差 Width	Cu	Pb	Fe	Bi	P	Zn	抗拉 Mpa	延伸 %	维氏硬度 HV	表面 Surface
	C2680EH0.35*43	0.35	43.00	EH	560.8	6	+0-0.015	+0-0.05	64-68	0.05以下	0.05以下	/	0.05以下	余量	518	11	163	OK
	C2680H0.25*28	0.25	28.00	H	438.4	7	+0-0.01	+0-0.05	64-68	0.05以下	0.05以下	/	0.05以下	余量	469	17	151	OK
	C2680H0.25*30	0.25	30.00	H	201.8	3	+0-0.01	+0-0.05	64-68	0.05以下	0.05以下	/	0.05以下	余量	469	17	151	OK
Total					1,201	16												



赵敏敏

深圳市祥云飞武科技有限公司

扁针镀金6u"(0.15um)厚度测试报告

样品名称 样品002

测量时间 40s

测量次数 5

管压 45Kv

设备名 Thick800A(Semi-Detector)

管流 700uA

工作曲线 AuLa-Ni-Cu

供应商 skyray

测量日期 2015-11-20 12:16:18

操作员 Administrator

测量结果

样品名	日期	镀层Au (um)	镀层Ni (um)
样品002	2015-11-20 12:16:18	0.158	0.981
样品002	2015-11-20 12:16:18	0.162	0.945
样品002	2015-11-20 12:16:18	0.157	0.914
样品002	2015-11-20 12:16:18	0.157	0.917
样品002	2015-11-20 12:16:18	0.158	0.906

统计值

统计项	镀层Au (um)	镀层Ni (um)
最小值	0.157	0.906
最大值	0.162	0.981
平均值	0.158	0.933
标准偏差	0.002	0.031
相对标准偏差	1.309%	3.302%

