

# 深圳市灿科盟实业有限公司

SHENZHEN CANKEMENG INDUSTRIAL CO. LTD

## 承 认 书

### SPECIFICATION FOR APPROVAL

客户名称 CUSTOMER	
品 名 DESCRIPTION	网口插座 RJ45-8P/8C 52E 直插 带屏蔽 无灯无弹 (脚前 3.05)
料 号 CUSERTOMER PART NO	R-RJ45S08P-B000
日 期 DATE	

#### 客户确认(APPROVED SIGNATURES)

核准(APPROVAL)	工程(ENGINEERING)	品管(QC)
承认结果: <input type="checkbox"/> 承认 <input type="checkbox"/> 不承认 <input type="checkbox"/> 重新送样		

深圳市灿科盟实业有限公司

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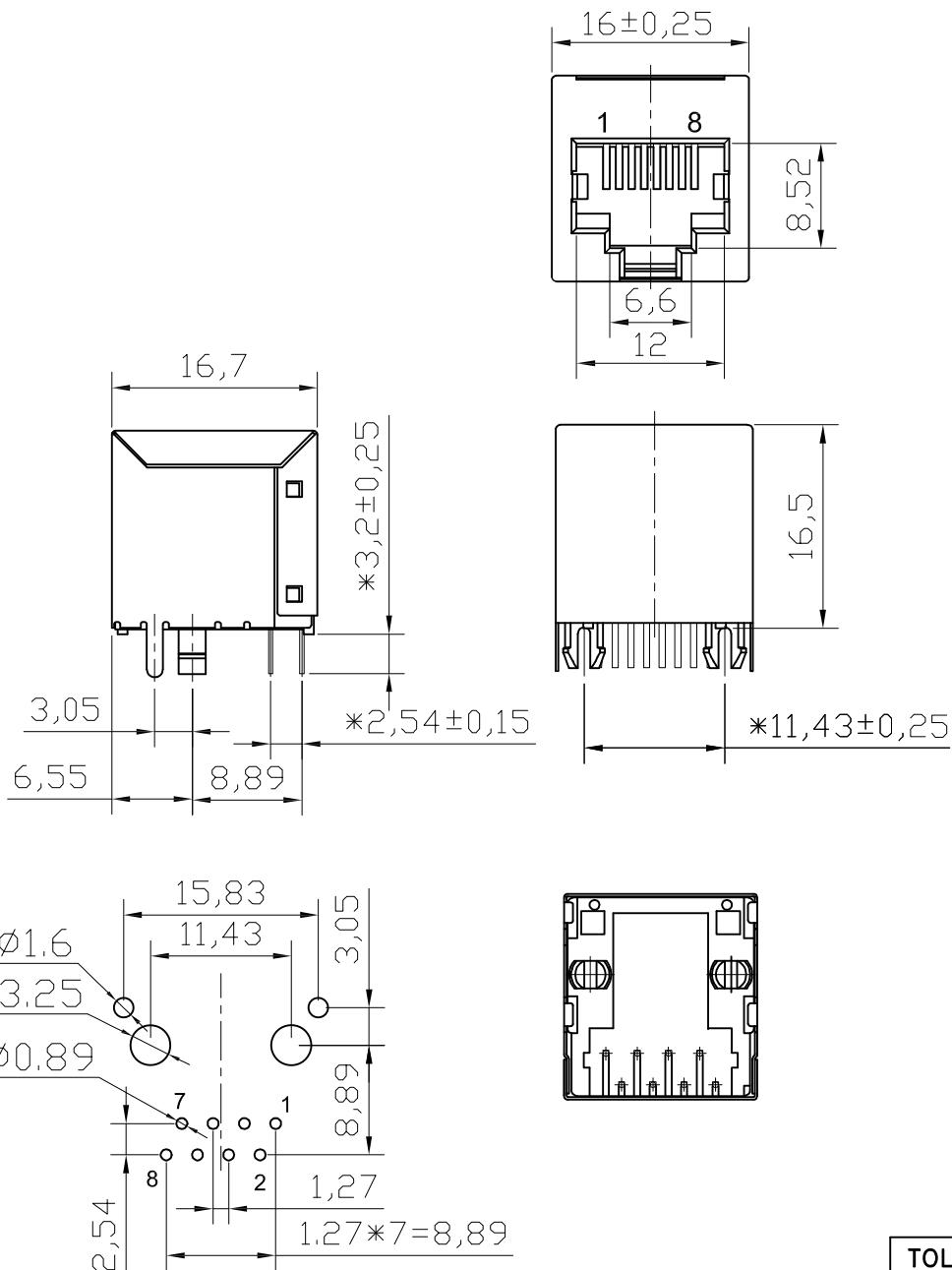
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生产基地:

江西灿科盟电子有限公司

JIANGXI CANKEMENG ELECTRONICS CO. LTD

公司地址 (Company address) : 江西省九江市修水县渣津镇朴田  
工业区



PC Board Layout  
Component Side Shown

NOTES:

MATERIAL:

1. HOUSING MATERIAL :GLASS FILLED POLYESTER UL94V-0.
2. CONTACT MATERIAL :PHOSPHOR BRONZE  $\phi=0.46$ mmn.
3. PLATING : FU" GOLD OVER NICKEL
4. SHIELD: :0.20mmTHICKNESS COPPER ALLY WITH NICKEL PLATED

ELECTRICAL:

1. VOLTAGE RATING :125 VAC RMS.
2. CURRENT RATING :1.5 AMP.
3. CONTACT RESISTANCE :30 MILIOHNS MAX.
4. INSULATION RESISTANCE :500 MEGOHMS MIN @ 500V DC .
5. DIELECTRIC WITHSTANDING RESISTANCE :1000V AC RMS 50Hz. 1MIN.

MECHANICAL:

1. DURRABILITY::750 CYCLES MIN.
2. PCB RETENTION PRE-SOLDER :1 LB MIN .

ENVIRONMENTAL:

1. STORAGE: -40°C TO 85°C.
2. OPERATION: -25°C TO 85°C.

APPROVED:	DATE:	深圳市灿科盟实业有限公司	
CHECKED:	DATE:	Ckmtw CHANKLEMENT INDUSTRYCO., LTD	
DRAWN:	DATE:	TITLE: RJ45-8P/8C 52E 直插 带屏蔽 无灯无弹(脚前3.05)	
SXA	2019-07-23	PART. NO. R-RJ45S08P-B000	
UNIT mm	SCALE free	FILE NO. Ckmtw-RJ45-0114	REV. A HY04

# 深圳市灿科盟实业有限公司

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 of application(适用范围)

This specification covers the requirements for relevant functional requirements, test methods of RJ45&RJ11series product

(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. Standard values (标准值)

Rated Voltage (额定电压) : 125VAC

Rated Current (额定电流) : 1.5A

Operating Temperature (工作温度) : -25°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% to 85%

湿度为: 25% to 85%

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

### ELECTRICAL Specifications (电气特性)

1	Contact Resistance (接触电阻)	30mΩMax (Initial) 初始值最大30mΩ	Subject mated contacts assembled housing to 30 mV maximum 100mA. Measured from plug side to PCB side. See figure 1(组装好的端子施以最大电压30mV最大电流100mA从埠处到PCB端测试) EIA-364-23B
2	Insulation Resistance (绝缘电阻)	500MΩ Min (最小值500MΩ)	Mated connectors with 500±10% DC between adjacent contacts or ground (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) 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±5% V AC for 1 minute 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

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5.2 Requirements and Test Methods (要求及方法)			
MECHANICAL REQUIREMENT(机械特性)			
4	Durability (耐久)	No damage Termination Resistance:30mΩ MAX (测试后无损坏,最大 接触阻抗30mΩ) See Note (a).	Operation Speed :12.5mm/min. (测试速度: 每分钟12.5毫米/分钟) Durability Cycles:750 Cycles (测试次数: 750 Cycles Min) EIA-364-9C
5	Connector Mating Force (插入力)	2.2kgf Max	Mating connectors at maximum rate12.5mm±3mm Per minute and measure the force 。 (测试组装好值连接器在每分钟12.5mm±3mm的速度 下之插入力) EIA-364-13B
6	Plug Retention Force (Plug保持力)	7.7kgf Min	Put the connector and plug in a vertical position,hang a 7.7kgf object at the bottom of the plug for 60s±5s. (测试扣合好之连接器与PLUG垂直放置, PLUG底部施 以7.7kgf Min力, 自然吊重60s±5s。)
7	SaltSpray (盐水喷雾)	No damage Termination Resistance:30m MAX (测试后无损坏,最大接触 阻抗30mΩ) See Note (a)	Tested as below: Temperature: (35±2)°C Humidity:(95-98)% (R.H.) PH: 6.5-7.2 Duration:X ≤ 1u":8H; 1u" < X < 3u":12H; 3u" ≤ X < 15u":24H;15u" ≤ X < 30u":36H;X=30u":48H;X=50u":72H; 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 ± 2)°C Salt-solution (5 ± 1)%. EIA -364-26B EIA -364-26B 测试条件如下: 温度:(35±2)°C; 湿度:(95- 98)%; PH 值: 6.5-7.2; 持续时间: X ≤ 1u":8小时; 1u" < X < 3u":12小 时; 3u" ≤ X < 15u":24小时; 15u" ≤ X < 30u":36小时; X= 30u": 48小时; X = 50u":72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后再进行测量动作; 待测品非接触 部位测试条件: 温度:( 35± 2)°C, 盐水密度:( 5 ± 1)
8	Solder ability (焊锡性)	More than 95% of the dipped surface shall be wet with solder (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°C±5°C 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 type的助焊剂中5-9秒, 然后 将端子脚浸入235°C±5°C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: (235±5°C,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

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5.2 Requirements and Test Methods (要求及方法)			
Environmental characteristics(环境特性)			
10	Heat Resistance 耐高温试验	外观良好 Appearance be OK The contact impedance before and after test $\Delta \leq 10m\Omega$ 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 $85^{\circ}\text{C} \pm 2^{\circ}\text{C}$ for 240 hours, The contact impedance before and after test $\Delta \leq 10m\Omega$ 样品在 $85^{\circ}\text{C} \pm 2^{\circ}\text{C}$ 放置 240 小时, 要求测试前与测试后的接触阻抗 $\Delta \leq 10m\Omega$
11	Cold tolerance 耐寒性	The contact impedance before and after test $\Delta \leq 10m\Omega$ 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 $-40^{\circ}\text{C} \pm 2^{\circ}\text{C}$ for 96 hours, The contact impedance before and after test $\Delta \leq 10m\Omega$ 样品在 $-40^{\circ}\text{C} \pm 2^{\circ}\text{C}$ 放置 96 小时, 要求测试前与测试后的接触阻抗 $\Delta \leq 10m\Omega$
12	Temperature and humidity test 温湿度测试	The contact impedance before and after test $\Delta \leq 10m\Omega$ 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 $25^{\circ}\text{C} \sim 65^{\circ}\text{C}$ and RH 90% to 95% for 96 hours, The contact impedance before and after test $\Delta \leq 10m\Omega$ 样品在 $25^{\circ}\text{C} \sim 65^{\circ}\text{C}$ 和 90% to 95% RH 放置 96 小时, 要求测试前与测试后的接触阻抗 $\Delta \leq 10m\Omega$
Electrical characteristic(电气特性)			
13	Prompt break test 瞬断测试	Within 2 minutes all the contact point without open up 2 分钟之内所有 PIN 针均无瞬断现象	1. 线扣吊 8 磅的砝码 Hang up a 8 pounds poise on the pothook 2. 摆摆角度: 360 度; Swing angle: 360 degree 3. 速度: 3 圈/分钟 Speed: 3 circles/minute 4. 测试时间: 2 分钟, 正 3 圈, 反 3 圈; Time: 2 minutes clockwise 3 circle and counter-clockwise 3 circle 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, 0.1 microsecond