

ELECTRICAL SPECIFICATIONS @ 25°C unless otherwise noted:

Insertion Loss: 1-100MHZ -1.0dB MAX

Return Loss: 1-30MHZ -16.0dB MIN
 30-60MHZ -14.0dB MIN
 60-80MHZ -10.0dB MIN

Cross Talk: 1-30MHZ -40.0dB MIN
 30-60MHZ -35.0dB MIN
 60-80MHZ -30.0dB MIN

CMR: 1-100MHZ -35.0dB MIN

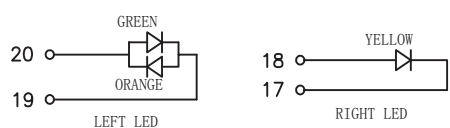
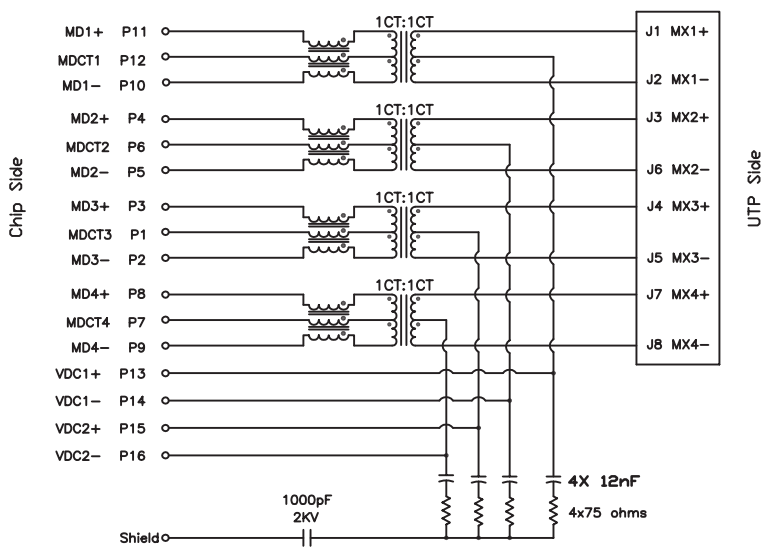
Hi-Pot: 1500v AC 6S 1mA

Turn Ratio: 1CT:1CT+/-3%

OCL:350uH MIN @ 100KHZ 100mV 8mA DC

POE rating: pse output power 30w.
 pse output Voltage 44v-57v DC.
 max current 600mA.
 pd max power 25.5w.
 pd Input Voltage 42.5v-57v DC.

Contacts: 0.35mm thick phos bronze plated with 6u' gold in contact are
 Housing Material:PBT Black
 Operating temperature range:-40°C-+85°C



XYFW

Drafted by: Xu Tiwen

UNIT:mm
 .x+/-0.3, .xx+/-0.20, .xxx+/-0.13

**1000BASE POE
 1X1 TAB-UP RJ45**

Approved By: JP.GONG

Part No:RJ-339PNL

www.cnxyfw.com SHEET 1 OF 1

REV.
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RJ45 CONNECTOR PRODUCT SPECIFICATION

(RJ45 网络连接器产品规格书)

1.0.SCOPE(范围)

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

这个产品表面规格功能,测试质量条件是非常鲜明的 RJ45 接口

When tests are performed on subject product line, procedures specified in Figure 1 shall be used. All inspections shall be performed using the applicable inspection plan and product drawing.

所有的检验均适用检验规范及产品图面

2.0.APPLICABLE DOCUMENTS 适用文件

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.

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

3.0.REQUIREMENTS 要求

3.1.Standard atmospheric condition:标准大气条件

Unless otherwise specified, the standard range of atmospheric condition for marking, measurement and tests is as follows:除非另有说明,以标准大气条件,量测及测试如下:

Ambient temperature 周围温度: 15°C to 35°C

Relative humidity 相对湿度: 63% to 67%

Air pressure 气压: 86 kpa to 106 kpa

3.2.Temperature:

Operating 使用: - 40°C to 85°C

Storage 储存: -40°C to 85°C (Expiration of storage 储存期限 : one year)

3.3. Ratings 等级

Voltage : 125 Volts AC

Current : 1.5 Amperes

3.4.Dimension 尺寸

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See applicable product drawing 参考产品图面

3.5.material, plating and markings(General requirements) 材质&电镀:

3.5.1.Housing Dielectric Material:

3.5.1.1.Polymer type(塑料材质): polybutylene terephthalate (PBT),

3.5.1.2.Color(颜色):BLACK

3.5.1.3.UL94 flammability rating(防火等级): UL94 V-0

3.5.2.Terminal Material 端子材质

3.5.2.1.RJ Terminal(RJ 端子材质): Phosphor bronze(C5210R-EH T=0.35mm).

Input Terminal(输入端子材质) Brass (C2680-H T=0.35mm) .

3.5.3. Contact Plating 端子电镀 (Underplating:30-50u" (Micro-Inchs)min.Nickel overall) .

3.5.3.1.RJ terminal Contact area plating material 接触区电镀: 6u"(Micro-Inchs)min.Au .

3.5.3.2. Input terminal(Solder tail) plating material 焊接区域电镀: 100-120u"min.Sn

3.5.4 Shell Material 外壳(屏蔽壳材料)

3.5.4.1 Material:Brass(C2680-H T=0.2mm)

3.5.4.2 All surface plating material 整个表面电镀: 50u" (Micro-Inchs)min.Nickel.

4.0. Performance and Test Description 功能测试叙述

Product is designed to meet the electrical, mechanical and environmental performance requirements specified in Future 1.

产品电子、机械和环境性能可符合 Figure-1 中规定及要求。

4.1.Appearance 外观要求

Item	Test Description 种类	Requirement 要求	Test Procedure 测试过程
1	Examination of Product 产品检查	Product shall meet requirements of applicable product drawing and specification. 产品必需满足图面及规格要求	Visual, dimensional and functional per applicable quality inspection plan. 目视,尺寸和功能满足质量检验规范

4.2. Electrical 电气特性

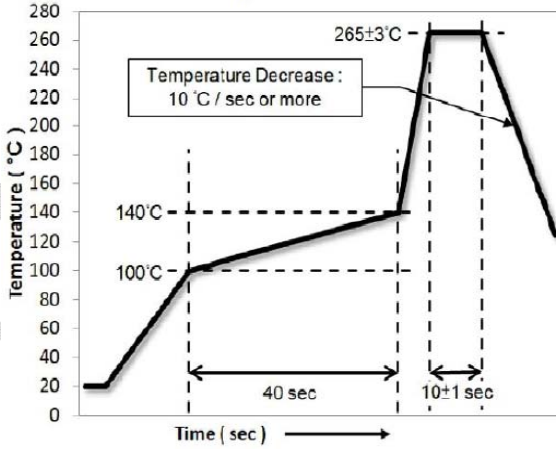
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2	Low Level Contact Resistance 接触阻抗	Single Terminal 30 milliohms maximum initial 50 milliohms maximum after test 单Pin端子: 初始值小于30毫欧最大 测试后阻值小于50毫欧最大	Mate subject connector with compatible connector. Then measure and record the contact resistance of the specimen under test with a test current of 100 mill-amperes maximum and 20 mill-volts open circuit voltage maximum . 与公母座搭配,然后用电流最大100mA电压最大20mV测量及记录接触阻抗,
3	Insulation Resistance 绝缘阻抗	500 Mega ohms minimum initial 初始阻抗最小500兆欧	After 500 VDC for 1 minute, measure the insulation resistance between the adjacent contacts of mated and unmated connector assemblies. 1分钟500 VDC后,测量交配和未交配的连接器组件的相邻触点之间的绝缘电阻。
4	Dielectric Withstanding Voltage 耐电压	1 minute hold with no breakdown or flashover. 1 分钟保持无破裂或击穿。	Test between adjacent contacts of unmated connector assemblies. Voltage: 1500 VAC or 2250VDC Current leakage: 0.5 mA max. 未交配连接器组件的相邻触点之间进行测试: 电压: 1500 VAC或者2250VDC, 漏电流: 0.5 mA最大。
4.3.Mechanical 机械特性			
5	Mating force 插入力 Removal force test 拔出力	22N Max. 30N Min.	Measure force necessary to mate the connector assemblies at a max of 12.5 mm/minute. 连接器组件中测量力度最大的必须在12.5毫米/分钟。
6	Durability 耐久性	750cycles. show no physical damage 目视要求, 外观无损坏等不良。 Low Level Contact Resistance: 50 milliohms maximum 耐久后接触电阻 50 毫欧最大。	Mate and unmated connector assemblies for 750 cycles at a maximum rate of 20 cycles/min. 交配和未交配连接器组件750周期在20次/分钟的最高速率。
4.4.Environmental 环境特性			
7	Heat test 耐温试验	The insulation resistance must coincide previously specification 绝缘强度必须与前述的规格相符 Shall meet visual requirements, show no physical damage 目视要求, 外观无损坏等不良。	Subject mated connectors to 85°C ± 2°C for 96 hours. It shall be subjected to standard atmospheric condition for 1 hour after which measurements shall be made. 以温度 85°C ± 2°C,时间96 小时进行试验.试验后物品应置于标准大气条件中 1 小时后再进行测量动作
8	Steady State Humidity 恒温恒湿	The insulation resistance must coincide previously specification 绝缘强度必须与前述的规格相符 Shall meet visual requirements, show no physical damage 目视要求, 外观无损坏等不良。	Subject mated connectors to relative humidity of 90% to 95%RH and a temperature of 40°C ± 2°C relative humidity for 96 hour. It shall be subjected to standard atmospheric condition for 1 hour after which measurements shall be made. 以相对湿度90% ~95%RH,温度40°C ± 2°C,96小时进行试验.试验后物品应置于标准大气条件中1小时后再进行测

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			量动作
9	Salt Spray 盐雾试验	Shall meet visual requirements, show no physical damage 目视要求, 外观无损坏等不良。	Subject mated connectors to $5 \pm 1\%$ salt-solution concentration, $35 \pm 1^\circ\text{C} / -2^\circ\text{C}$ for 24 hours. 以 $5 \pm 1\%$ 的盐水浓度;温度 $35 \pm 1^\circ\text{C} / -2^\circ\text{C}$, 时间24小时进行试验
4.5.Mounting characteristics 装配特性			
10	Solderability 吃锡性	Solderable area shall have minimum of 95% solder coverage. 浸入表面积的焊接区域将最小有95%以上	After dipped the pin in the flux of R type for 5-10 seconds. Immerse the solder pin of the connector in the solder bath at $245 \pm 5^\circ\text{C}$ for 4.0-5.0 seconds. 将端子脚浸入R type的助焊剂中5-10秒,然后将端子脚浸入 $245^\circ\text{C} \pm 5^\circ\text{C}$ 的锡炉中4.0~5.0秒
11	Resistance to soldering heat 耐焊性	The contact resistance must coincide previously specification 接触阻抗必须与前述的规格相符 Shall meet visual requirements, show no physical damage 目视要求, 外观无损坏等不良。	Dipping temperature profile : Note : The measuring point for the specified temperature shall be on the soldered part of the lead.  <p>Temperature (°C)</p> <p>Time (sec)</p> <p>Temperature Decrease: 10°C / sec or more</p> <p>265±3°C</p> <p>140°C</p> <p>100°C</p> <p>40 sec</p> <p>10±1 sec</p> <p>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 $260^\circ\text{C} \pm 5^\circ\text{C}$ for 10 seconds 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$260^\circ\text{C} \pm 5^\circ\text{C}$的锡炉中10秒 Soldering iron method: Bit temperature $350 \pm 10^\circ\text{C}$, application time 1~5 sec. However excessive pressure shall not be applied to the terminal. 手工焊接的时候温度需控制在$350 \pm 10^\circ\text{C}$, 时间为1~4秒, 不能在端子上施加异常压力。</p>

NOTE Shall meet visual requirements, show no physical damage, and meet requirements of additional tests as specified in the Product Qualification and Requalification Test Sequence shown in Figure 2.

Figure-1

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Product Qualification and Requalification Test Sequence

Test or Examination	Test Group					
	A	B	C	D	E	F
	Test Sequence					
Examination of product.	1, 9	1, 7	1, 5	1, 3	1, 3	1, 5
Low level contact resistance.	2, 6	3, 6	2, 4			2, 4
Insulation resistance.	3, 7					
Dielectric withstanding voltage.	4, 8					
Mating force.		2,5				
Durability.		4				
Heat test.			3			
Humidity.	5					
Salt spray.				2		
Solderability.					2	
Resistance to reflow soldering heat.						3
Test sample quantity	5	5	5	5	5	5

NOTE Numbers indicate sequence in which test are performed.

Figure-2

DGKYD RJ45 LED PARAMETER

LED light(green) phtoelectricity parameter: LED绿灯光电参数

Ambient temperature:25°C; Humidity: 60%RH. 环境温湿度

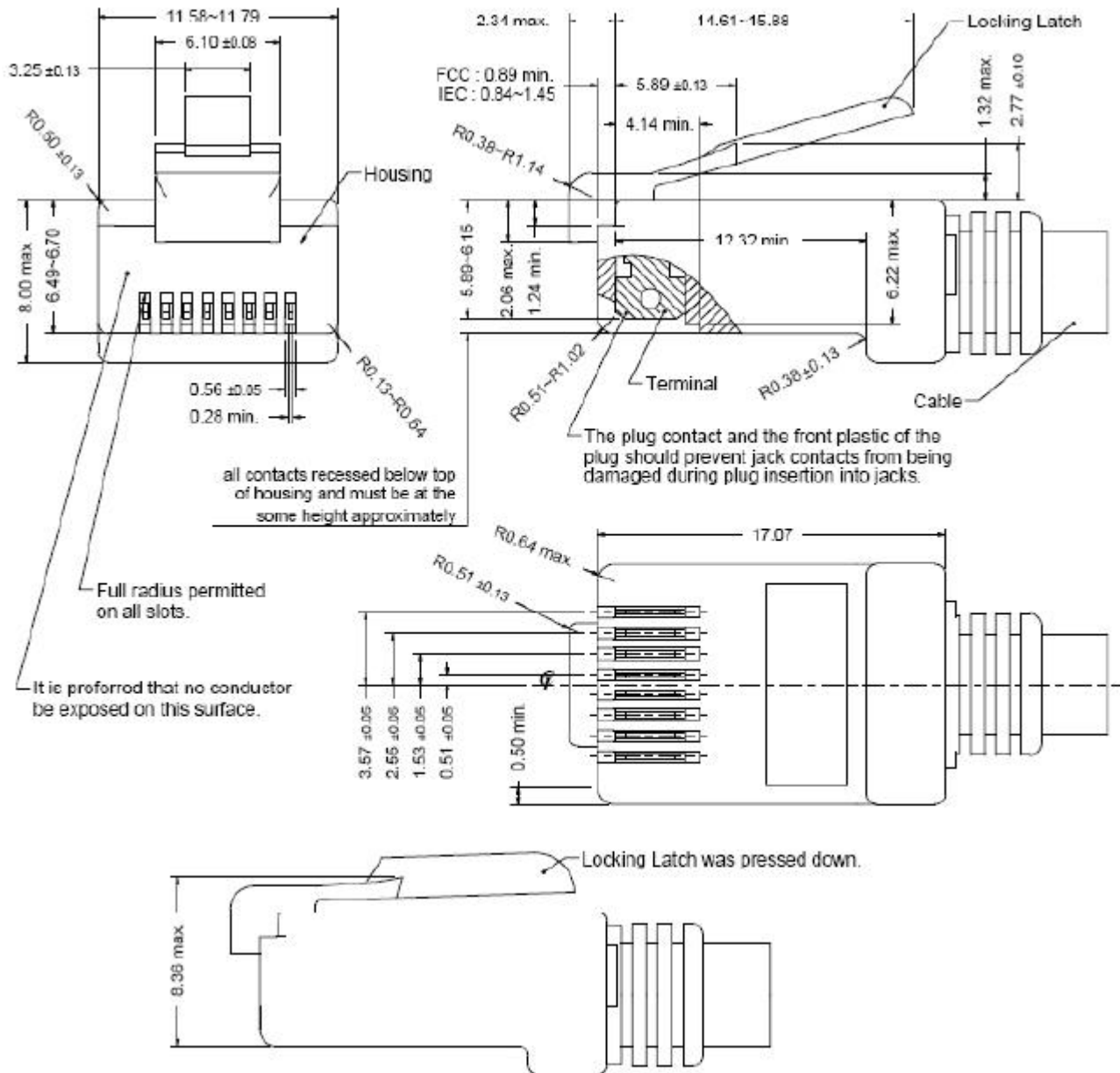
Item项目	Symbol 符号	Test condition 测试条件	Min. 最小值	Type典型值	Max. 最大值	Unit单位
Foreard voltage正向电压	VF	IF=20mA	1.85	/	2.45	V
Reverse current反向电流	IR	VR=5V	/	/	5	uA
Luminous intensity发光强度	IC	IF=20mA	10	/	30	Mcd
Dominant wavelength主波长	λd	IF=20mA	/	570	/	nm
Peak wavelength峰值滤长	λp	IF=20mA	565	/	575	nm

LED light(yellow) phtoelectricity parameter: LED黄灯光电参数

Ambient temperature:25°C; Humidity: 60%RH. 环境温湿度

Item项目	Symbol 符号	Test condition 测试条件	Min. 最小值	Type典型值	Max. 最大值	Unit单位
Foreard voltage正向电压	VF	IF=20mA	1.7	/	2.3	V
Reverse current反向电流	IR	VR=5V	/	/	5	uA
Luminous intensity发光强度	IC	IF=20mA	50	/	150	Mcd
Dominant wavelength主波长	λd	IF=20mA	/	590	/	nm
Peak wavelength峰值波长	λp	IF=20mA	585	/	595	nm

Standard RJ45 Plug Specification



- All dimensions follow :
FCC subpart F, 68,500, Figure (C)(2)(i) & (C)(2)(ii) & (C)(3)(i)
IEC 60603-7
- All plugs must be meeting the requirements of plug Go & No-Go gauge.
Gauge follow : FCC subpart F, 68,500, Figure (C)(4)(i) & (C)(5)(i)
- There must be no damage to Housing and Locking Latch.
- There must be no nicks and cuts in cable.
- Durability : 750 cycles generally