

# 东莞市高钺达电子科技有限公司 惠州市高钺达光电科技有限公司

## 承 认 书 SPECIFICATION FOR APPROVAL

Customer : \_\_\_\_\_

Description : 天线座2代

PartNo : TX-2000-TG

Customer P/N : \_\_\_\_\_

| 东莞市高钺达电子科技有限公司        |  | 客 户                   |  |
|-----------------------|--|-----------------------|--|
| 工程<br>承<br>认<br>章     |  | 工程<br>承<br>认<br>章     |  |
| 品<br>管<br>承<br>认<br>章 |  | 品<br>管<br>承<br>认<br>章 |  |

TAIWAN FACTORY: 協昌精密工業股份有限公司

ADD: NO. 95 Twopart Southharbour road, Taibei, Taiwan. CHINA

地址: 中国臺灣台北市南港路二段 95 號

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CHINA FACTORY: 东莞市高钺达电子科技有限公司

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TEL: 13570841301 微信同号 TEL: 13412512525 微信同号

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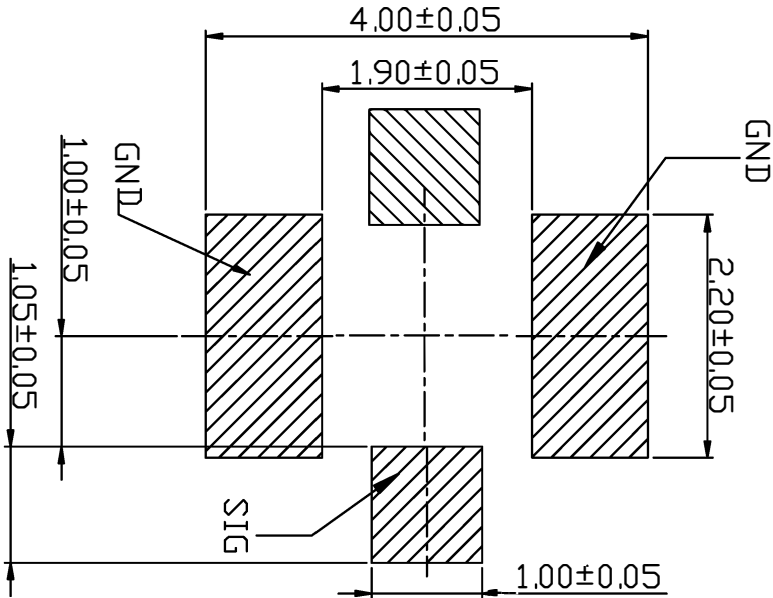
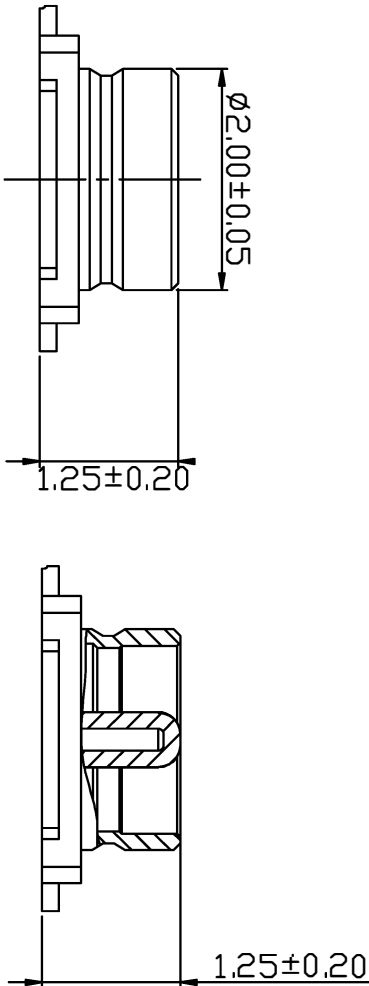
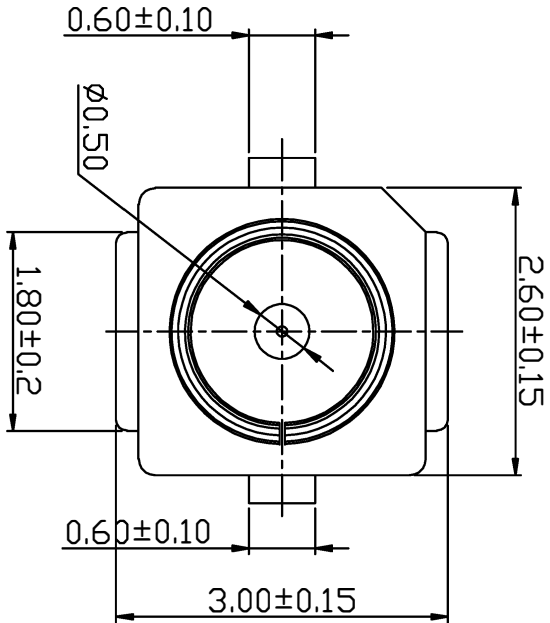
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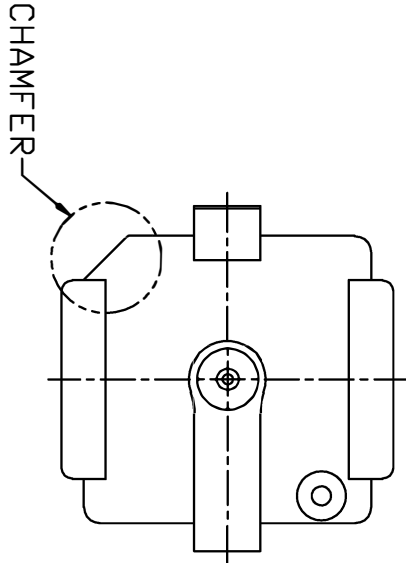
| REV. | LOCATION | DESCRIPTION | DWN | APVD | DATE |
|------|----------|-------------|-----|------|------|
|      |          |             |     |      |      |
|      |          |             |     |      |      |



RECOMMENDED PCB BOARD PATTERN DRAWING

NOTES:

1. ELECTRICAL CHARACTERISTICS:
  - 1.1 CURRENT RATING: 0.5A Max;
  - 1.2 IMPEDANCE: 50OHM NOMINAL.
2. MECHANICAL CHARACTERISTICS:
  - 2.1 OPERATING TEMP. -40° TO 90° ;
  - 2.2 VSWR UP TO 3 GHz:1.3MAX;  
3GHz TO 6GHz:1.3MAX;
  - 2.3 DURABILITY: 30CYCLES.



| TOL.       |              | PART NAME    | LVC CONN 40PIN<br>0.5PH TERMINAL | DWN   | DRAWING NO. |       |
|------------|--------------|--------------|----------------------------------|-------|-------------|-------|
| X.         | X.° ± 1°     | PART NO.     |                                  |       | 产品型号        | 天线座2代 |
| .X ± 0.05  | X.° ± 0.5°   | ASSEMBLY NO. | HLX09101                         | APVD  | 文档编号        |       |
| .XX ± 0.03 | XX.° ± 0.05° | DWG TYPE     |                                  | UNITS | mm          |       |

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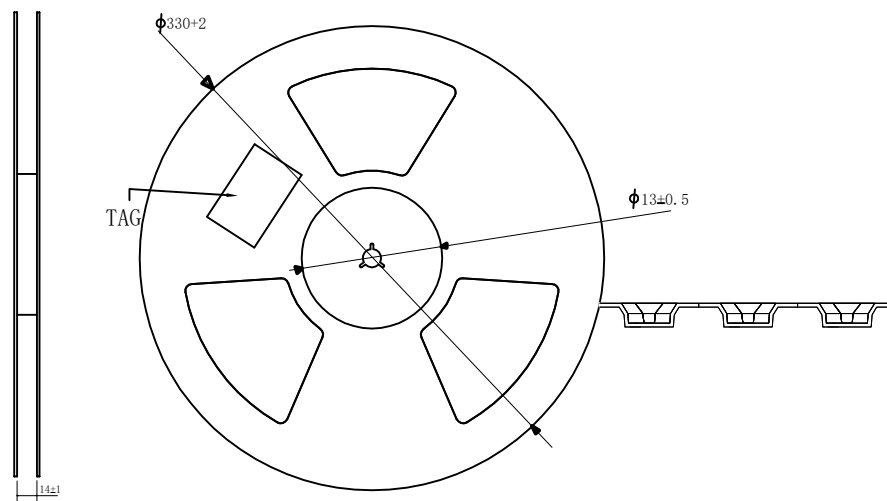
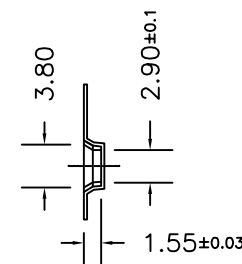
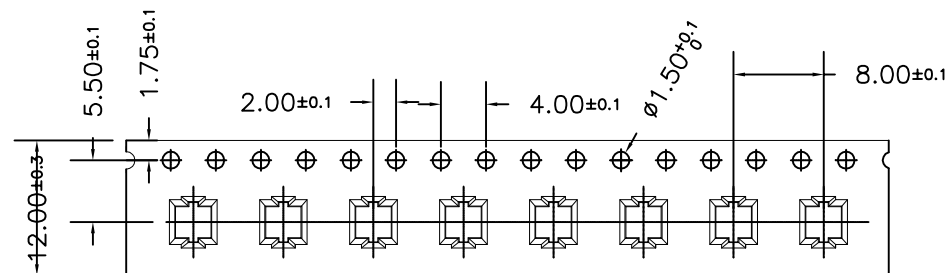
EVNNO.

ECN-1105010

批准

TYAV

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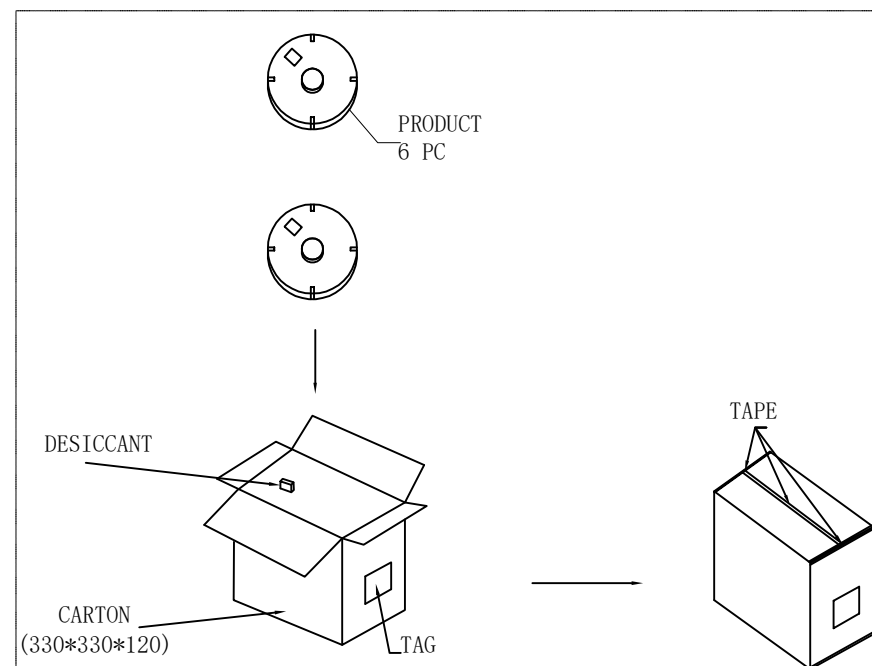
NOTE:

1、QUANTITY:4500-(5000)PCS/DISH

27000-(30000)PCS/CARTON

2CARRYTAPE:30-(50) EMPTY IN THE FRONT,

50 EMPTY IN THE END



|                                  |          |                  |                     |                                                    |       |       |      |
|----------------------------------|----------|------------------|---------------------|----------------------------------------------------|-------|-------|------|
| 东莞市高钺达电子科技有限公司<br>惠州市高钺达光电科技有限公司 |          |                  |                     | TITLE:<br>RF BOARD END CONNECTOR, FIRST GENERATION |       |       |      |
|                                  |          |                  |                     | DWG NO.:                                           |       |       |      |
|                                  |          |                  |                     | PART NO.(料号):                                      |       |       |      |
| .X± 0.25                         | .X± 5°   | APPD: Max 9/2'15 | CUSTOMER<br>DRAWING | UNITS                                              | SCALE | SHEET | REV. |
| .XX± 0.25                        | .XX± 3°  | CHKD: Max 9/2'15 |                     | mm                                                 | 1:1   | 1/1   | X1   |
| .XXX±                            | .XXX± 1° | DR: Andy 9/2'15  |                     |                                                    |       |       |      |

## RF 2.5H CONNECTOR(PLUG&REC)

### 1. 适用范围 SCOPE

本技术规范适用于 RF 连接器, 其中包括产品性能, 品质要求和测试方法

The specification covers performance, tests and quality requirements for RF 2.5H Connector(PLUG&REC).

### 2. 参考文件 APPLICABLE DOCUMENT

以下参考文件有 MIL-STD-202, EIA-364, UL-498, JIS C0020

The following documents form a part of this specification to the extent specified herein. In the event of conflict between the requirements of this 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.

MIL-STD-202, EIA-364, JIS C0020.

### 3. 产品构成/材料 CONSTRUCTION AND MATERIAL.

塑胶主体 HOUSING : 热塑性塑胶 (PLASTIC) ;

接触端子 CONTACT : 黄铜 (Brass)

外 壳 SHELL : 磷青铜 (PHOSPHOR BRONZE)

### 4. 额定值 Ratings

A. 额定电压 Voltage Rating: 60VAC

B. 公称特性 Nominal characteristic impedance:50Ω

C. 周波数 Frequency:DC0.1~6GHz

D. VSWR: PLUG 1.3Max.(DC0.1~3GHz),1.5Max.(3~6GHz)  
Receptacle 1.3Max.(DC0.1~3GHz),1.4Max.(3~6GHz)

E. 使用温度范围 Service Temperature:233~363K(-40℃ to 90℃)

### 5. 产品性能及测试要求和规范 PERFORMANCE, TEST REQUIREMENT AND PROCEDURES SUMMARY

#### 5-1 试验条件 Test condition

温度 Temperature:288~308K(15℃ to 35℃)

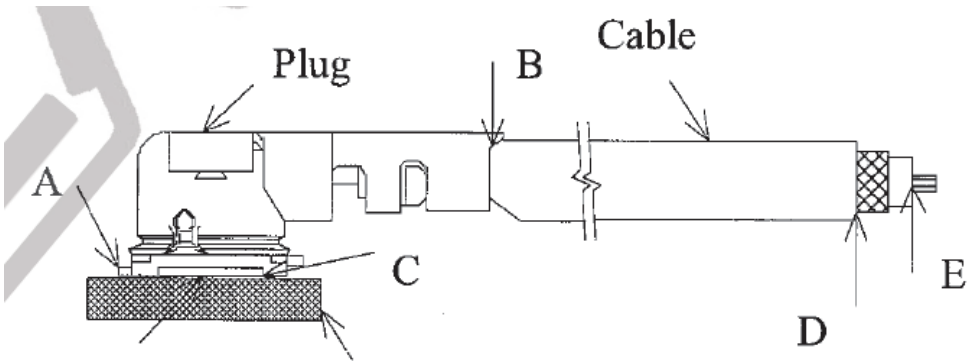
湿度 Humidity:45~75%RH

Approve: 2012.07.16

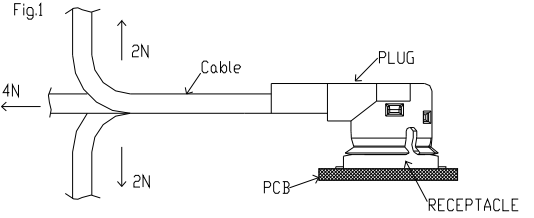
Check: 2011.07.16

Pre: 2012.07.16

5-2. 产品性能及测试要求和规范 PERFORMANCE, TEST REQUIREMENT AND PROCEDURES SUMMARY

| 项目 ITEM                                                                                                                                         | 规格 STANDARD                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 测试规范 PROCEDURES                                                                                                                                                               |
|-------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 电性能 ELECTRICAL                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                               |
| 低功率接触阻抗<br>Low Level Contact Resistance                                                                                                         | <p>中心导体初值最大 20mΩ,试验后最大 25 mΩ.</p> <p>Contact resistance of inner contact initial 20 mΩ Max,after testing 25 mΩ Max.</p> <p>外部导体初值最大 10 mΩ Max, 试验后最大 15mΩ.</p> <p>Contact resistance of ground contact initial 10 mΩ Max,after testing 15 mΩ Max.</p> <p>Contact resistance of inner Contact:</p> <p>&lt;resistance of A-E&gt;-&lt;resistance of B-E&gt;</p> <p>Contact resistance of ground Contact:</p> <p>&lt;resistance of C-D&gt;-&lt;resistance of B-D&gt;</p> | <p>公母端连接器配合后使用最大 20 mV 电压, 开路最大 10mA 电流进行测试. 参考 MIL-STD-202,Method 307</p> <p>Mated connector, 20 mV Max. Open circuit at 10 mA Max.</p> <p>MIL-STD-202,Method 307</p>        |
|  <p>Plug Cable</p> <p>A B C D E</p> <p>Receptacle Board</p> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                               |
| 绝缘阻抗<br>Insulation Resistance                                                                                                                   | <p>初期最小 500 MΩ</p> <p>500 MΩ Min Initial</p> <p>终期最小 100 MΩ</p> <p>100 MΩ Min Final</p>                                                                                                                                                                                                                                                                                                                                                                              | <p>使用直流电 100V, 保持 1 分钟, 测试端子与铜壳间.</p> <p>参考 MIL-STD-202,Method 302</p> <p>100V DC for 1 minute. Test between adjacent circuits and contact.</p> <p>MIL-STD-202,Method 302</p> |

|                                        |                                                                                                                                                                                                                           |                                                                                                                                                                            |
|----------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 耐电压<br>Dielectric withstanding Voltage | 不能有电火花产生,绝缘不能破坏,漏电流不能超过 2mA.<br>No creeping discharge or flash over shall occur, Current leakage: 2mA Max.                                                                                                                | 使用交流 200V, 保持 1 分钟, 测试端子与外壳间. 参考 MIL-STD-202 Method 301<br>200V AC 1 minute. Test between adjacent circuits and contact.<br>MIL-STD-202 Method 301                         |
| 驻波比<br>VSWR                            | Plug 1.3 以下 0.1~3GHz, 1.5 以下 3~6GHz<br>Plug 1.3Max.at 0.1~3GHz, 1.5Max.at 3~6GHz<br>Receptacle 1.3 以下 0.1~3GHz, 1.4 以下 3~6GHz<br>Receptacle 1.3Max.at 0.1~3GHz, 1.4Max.at 3~6GHz.                                         | 周波数:100M~6GHz<br>Measure the VSWR as shown by the network analyzer.Frequency:100M~6GHz                                                                                     |
| 机械性能 MECHANICAL                        |                                                                                                                                                                                                                           |                                                                                                                                                                            |
| 拔去力<br>Un-mating force                 | 综合拔去力:初回拔去力 8N 以上, 30 回后拔去力 5N 以上<br>Total un-mate force: Initial 8N Min. after 30 cycles 5N Min<br>中心导体:初回拔去力 0.15N 以上, 30 回拔去力 0.1N 以上<br>Un-mating force of inner contact: Initial 0.15N Min.after 30 cycles 0.1N Min. | 插拔试验机以每分 25±3mm 的速度进行插拔<br>Un-mate the receptacle connector(soldered to the test board)and plug at a speed 25±3mm/minutes along the mating by the push-on/pull-off machine |
| 引张强度<br>Crimp strength                 | OD1.32/OD1.13/OD1.00/OD0.81 CONNECTOR: 15N MIN<br>OD1.37 CONNECTOR/RG178 2.5HCONNECTOR: 25N MIN                                                                                                                           | 通过引张试验机以每分 25+/-3 毫米/分钟的速度拉线材部分.<br>Pull the cable as shown at a speed 25+/-3mm/minutes by tensile strength machine.                                                       |

|                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                            |
|-----------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>耐久性<br/>Durability</p>                                             | <p>中心导体接触阻抗：初期 20 mΩ, 以下，试验后 25 mΩ 以下<br/>Contact resistance of inner contact initial 20 milli-ohm MAX. after testing 25milli-ohm MAX.<br/>外部导体接触阻抗：初期 10 mΩ, 以下，试验后 15 mΩ 以下<br/>Contact resistance of ground contact initial 10 mille-ohm MAX.after testing 15milli-ohm MAX.</p>                                                                                                                                                                                                                                       | <p>将连接器焊接在板上以每分钟 25±3mm 的速度插拔 30 次<br/>Mate and un-mate the receptacle connector (soldered to the test board)and plug 30 cycles at a speed 25±3mm/minutes along the mating by the push-on/pull-off machine.</p>                                            |
| <p>将线材施加于力后的产品接触阻抗<br/>Contact resistance with force on the cable</p> | <p>部品无外观及其它异常.<br/>Appearance: Looseness between the parts,chipping,breakage or other abnormality shall not occur<br/>试验中无 1 微秒的电流中断<br/>Electrical discontinuity :No electrical discontinuity grater than 1 micro-sec.shall occur.<br/>中心导体接触阻抗：初期 20 mΩ, 以下，试验后 25 mΩ 以下<br/>Contact resistance of inner contact initial 20 milli-ohm MAX. after testing 25milli-ohm MAX.<br/>外部导体接触阻抗：初期 10 mΩ, 以下，试验后 15 mΩ 以下<br/>Contact resistance of ground contact initial 10 milli-ohm MAX. after testing 15milli-ohm MAX.</p> | <p>施加力于图 Fig.1 方向<br/>Apply force on the cable as shown</p>  <p>试验期间工作电流 100mA DC,检查瞬间电流中断.<br/>During the testing,run 100mA DC to check electrical discontinuity.</p> |

|                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|--------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>振动<br/>Vibration</p>        | <p>外观无异常</p> <p>Apply the following vibration to the mating connector.</p> <p>试验中不得有超过 1 微秒的漏电流产生</p> <p>Electrical discontinuity: No electrical discontinuity grater than 1micro-sec.shall occur.</p> <p>中心导体接触阻抗: 初期 20 mΩ, 以下, 试验后 25 mΩ 以下</p> <p>Contact resistance of inner contact initial 20 milli-ohm MAX. after testing 25milli-ohm MAX.</p> <p>外部导体接触阻抗: 初期 10 mΩ, 以下, 试验后 15 mΩ 以下</p> <p>Contact resistance of ground contact initial 10 milli-ohm MAX. after testing 15milli-ohm MAX.</p>                                    | <p>嵌合状态下振动,试检中电流瞬断的确认.</p> <p>Apply the following vibration to the mating connector.</p> <p>周波数:10Hz-100Hz-10Hz 约 15 分</p> <p>Frequency:10Hz-100Hz-10Hz/approx 15 minutes.</p> <p>片振幅,加速度: 1.5mm or 59m/s<sup>2</sup>(6G)</p> <p>Half amplitude, peak value of acceleration:1.5mm or 59m/s<sup>2</sup>(6G)</p> <p>方向:三个互相垂直的方向 5 次(约 75 分)实施.</p> <p>Directions,cycle:3 mutually perpendicular direction,5 cycles(approx 75min)about each direction.</p>                                  |
| <p>物理冲击<br/>Physical shock</p> | <p>外观无异常</p> <p>Appearanec:Looseness between the parts,chipping,breakage or other abnormality shall not occur.</p> <p>不得有超过 1 微秒的漏电流产生.</p> <p>Electrical discontinuity: No electrical discontinuity grater than 1 micro-sec.shall occur.</p> <p>中心导体接触阻抗:初期 20 mΩ 以下,试验后 25 mΩ 以下.</p> <p>Contact resistance of inner contact initial 20 milli-ohm MAX. after testing 25milli-ohm MAX.</p> <p>外部导体接触阻抗:初期 10 mΩ 以下,试验后 15 mΩ 以下.</p> <p>Contact resistance of ground contact initial 10 milli-ohm MAX. after testing 15milli-ohm MAX.</p> | <p>嵌合状态在冲击试验机下冲击,试验中 DC100mA 电 流 的 瞬 断 确 认 。MIL-STD-202 试验法 203,试验条件 B</p> <p>Apply the following vibration to the mating connector in accordance with MIL-STD-202,Method213,Condition B.During the testing, run 100mA DC to check electrical</p> <p>最大加速度:735m/s<sup>2</sup>(75G)</p> <p>Peak value of acceleration:735m/s<sup>2</sup>(75G).</p> <p>Duration:11msec</p> <p>Wave Form: half sinusoidal</p> <p>Diretions,cycle:6 mutually pcrpcndicular,3 cycles about each direction.</p> |



## 环境性能 ENVIRONMENTAL

|                                  |                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                    |
|----------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>盐水喷雾<br/>Salt water spray</p> | <p>外观无异常,性能良好<br/>Appearance no abnormality adversely affecting the performance shall occur</p> <p>中心导体接触阻抗: 初期 20 mΩ, 以下, 试验后 25 mΩ 以下.<br/>Contact resistance of inner contact initial 20 milli-ohm MAX.after testing 25milli-ohm MAX.</p> <p>外部导体接触阻抗:初期 10 mΩ 以下,试验后 15 mΩ 以下.<br/>Contact resistance of ground contact initial 10 mille-ohm MAX.after testing 15milli-ohm MAX</p> | <p>嵌合状态的连接器放置于以下条件<br/>下:<br/>Apply the following environment to the mating connector in accordance with MIL-STD-202,Method 101,Condition B</p> <p>温度: 308+/-2K(35+/-2°)<br/>Temperature:308+/-2K(35+/-2°)</p> <p>盐水浓度:5+/-1%(重量比)<br/>Salt water density by weight:5+/-1%</p> <p>时间:24小时<br/>Duration:24hours</p> |
|----------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

|                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                              |
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| <p>高温寿命<br/>Temperature Life</p> | <p>部品无外观及其它异常</p> <p>Appearance: Looseness between the parts, chipping breakage or other abnormality shall not occur</p> <p>中心导体接触阻抗: 初期 20 mΩ, 以下, 试验后 25 mΩ 以下</p> <p>Contact resistance of inner contact initial 20 milli-ohm MAX.after testing 25milli-ohm MAX</p> <p>外部导体接触阻抗:初期 10 mΩ 以下,试验后 15 mΩ 以下..</p> <p>Contact resistance of ground contact initial 10 mille-ohm MAX.after testing 15milli-ohm MAX</p> <p>绝缘阻抗:初期 500MΩ 以上,试验后 100MΩ 以上.</p> <p>Insulation resistance: initial 500 mega-ohm MIN.after testing 100 mega-ohm MIN.</p> | <p>嵌合状态的连接器放置以下环境</p> <p>Apply the following environment to the mating connector in accordance</p> <p>温度 363+/-2K(90+/-2°)</p> <p>Temperature:363+/-2K(90+/-2°)</p> <p>时间:96 小时</p> <p>Duration:96 hours</p> |
|----------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

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|------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>热冲击<br/>Thermal shock</p> | <p>部品无外观及其它异常</p> <p>Appearance: Looseness between the parts, chipping, breakage or other abnormality shall not occur.</p> <p>中心导体接触阻抗: 初期 20 mΩ, 以下, 试验后 25 mΩ 以下</p> <p>Contact resistance of inner contact initial 20 milli-ohm MAX.after testing 25milli-ohm MAX.</p> <p>外部导体接触阻抗: 初期 10 mΩ, 以下, 试验后 15 mΩ 以下</p> <p>Contact resistance of ground contact initial 10 mille-ohm MAX. after testing 15milli-ohm MAX</p> <p>绝缘阻抗:初期 500MΩ 以上,试验后 100MΩ 以上.</p> <p>Insulation resistance: initial 500 mega-ohm MIN.after testing 100 mega-ohm MIN.</p> <p>耐电压: 无发生沿面放电,空中放电,绝缘破坏等异常.</p> <p>D.W.Voltage:No creeping discharge,flashover,nor insulator breakdown shall occur</p> | <p>嵌合状态的连接器在以下环境</p> <p>Apply the following environment to the mating connector.</p> <p>温度, 持续时间:</p> <p>Temperature, duration:</p> <p>233K(-40°)/30 分钟 →</p> <p>278~308K(5~35°)/5 分以下 →</p> <p>363K(90°)/30 分钟 →</p> <p>278~308K(5~35°)/5 分以下</p> <p>233K(-40°)/30minutes →</p> <p>278~308(5~35°)K/minutes MAX. →</p> <p>363K(90°)/30minutes →</p> <p>278~308K/5minutes MAX</p> <p>实施 5 个循环</p> <p>No.of cycles:5 cycles</p> |
|------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

|                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                             |
|-----------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 耐湿性<br>Humidity | <p>部品无外观及其它异常</p> <p>Appearance: Looseness between the parts, chipping, breakage or other abnormality shall not occur.</p> <p>中心导体接触阻抗: 初期 20 mΩ, 以下, 试验后 25 mΩ 以下</p> <p>Contact resistance of inner contact initial 20 milli-ohm MAX.after testing 25milli-ohm MAX.</p> <p>外部导体接触阻抗: 初期 10 mΩ, 以下, 试验后 15 mΩ 以下</p> <p>Contact resistance of ground contact initial 10 mille-ohm MAX.after testing 15milli-ohm MAX</p> <p>绝缘阻抗:初期 500MΩ 以上,试验后 100MΩ 以上.</p> <p>Insulation resistance: initial 500 mega-ohm MIN.after testing 100 mega-ohm MIN.</p> <p>耐电压:无发生沿面放电,空中放电,绝缘破坏等异常.</p> <p>D.W.Voltage:No creeping discharge,flashover,nor insulator breakdown shall occur</p> | <p>嵌合状态的连接器在以下环境放置.MIL-STD-202.试验法 103,条件 B</p> <p>Apply the following environment to the mating connector in accordance with MIL-STD-202,Method 103,Condition B.</p> <p>温度:313+/-2K(40+/-2°)</p> <p>Temperature:313+/-2K(40+/-2°)</p> <p>湿度:90~95%RH</p> <p>Humidity:90~95%RH</p> <p>时间:96 小时</p> <p>Duration:96 hours</p> |
|-----------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|