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	Date revised	2020-11-23	checked by	Jay
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Rated Voltage (Maximum)额定电压	50V DC
Rated Current (Maximum)额定电流	1A
Operating temperature range工作温度范围	-20°C~+70°C From -20 to +70 degree centigrade
Storage Temperature Range储存温度范围	-20°C~+70°C From -20 to +70 degree centigrade

## 5.0 TEST STANDARD (测试条件)

5.1 Unless otherwise specified, the standard range of atmospheric conditions for making measurements and tests are as follows (除另有说明外, 用以进行测量和测试的标准环境条件范围如下)

Ambient temperature(环境温度): 5°C to 35°C

Normal humidity (正常湿度): 45% to 85%

Air pressure (气压): 86Kpa to 106Kpa

5.2 However if doubt arises on the decision based on the measured Values under the above-mentioned Conditions. The following conditions shall be employed:

(但是在对判定产生疑问时,按下述状态实施)

Temperature (温度): 20±2°C

Relative humidity (相对湿度): 65±5%

Air pressure (气压): 86Kpa to 106Kpa

## 6. PERFORMANCE AND TEST DESCRIPTION (性能和测试类型)

### 6.1 APPEARANCE (外观)

ITEM	DESCRIPTION (类型)	TEST CONDITION (测试条件)	REQUIREMENT (要求)
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1	<b>Appearance</b> 外观	Visual. 目视	<b>Should not have any flaw Scratch discoloration and crushed.</b> 无任何裂痕、刮伤、污染和变形
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**6.2 ELECTRICAL (电气)**

ITEM	DESCRIPTION (类型)	TEST CONDITION (测试条件)	REQUIREMENT (要求)
1	<b>Contact resistance.</b> 接触电阻	<b>Measured at low current (100mA or less).</b> (在低电流 ( $\leq 100\text{mA}$ ) 条件下测试。)	<b>30 m<math>\Omega</math> Max.</b>
2	<b>Insulation Resistance.</b> 绝缘电阻	<b>Apply a voltage of 100V DC for 1 MIN to following portions after which measurement shall be made</b> 输入DC 100V, 一分钟, 按以下接触方法测试 : <b>(1). Between body and conductor.</b> 插座体与排脚之间 <b>(2). Between conductors not to be contact.</b> 不接触的排脚之间 <b>(3). Between conductors not to be when plug is inserted DC 100V 1 MIN.</b> 插头插入时不接触的排脚之间	<b>100 M<math>\Omega</math> min.</b>
3	<b>Dielectric strength.</b> (耐电压)	<b>AC 500V ims(50~60Hz)for 1 MIN trip current: 0.5mA</b> 输入AC 250V (50~60Hz)/min电压一分钟, 漏电电流为: 0.5mA <b>(1). Between body and conductor.</b> 插座体与排脚之间 <b>(2). Between conductors not to be contact.</b> 不接触的排脚之间 <b>(3). Between conductors not to be when plug is inserted DC 500V 1 MIN.</b> 插头插入时不接触的排脚之间	<b>There shall be no breakdown.</b> 无击穿、闪烁现象

**6.3 MECHANICAL (机械)**

ITEM	DESCRIPTION (类型)	TEST CONDITION (测试条件)	REQUIREMENT (要求)
1	<b>Insertion Force</b> (插入力)	<b>Measurement shall be made after connecting and disconnecting using stand plug gauge 3 times .</b> 依据标准的PLUG GAUGE做第3次插拔后测试	<b>3~30N</b>

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2	<b>Extraction Force</b> (拔出力)	<b>Measurement shall be made after connecting and disconnecting using stand plug gauge 3 times .依据标准的PLUG GAUGE做第3次插拔后测试</b>	<b>3~30N</b>
3	<b>Terminal Strength</b> (端子强度)	<b>A static load of 5N(0.5kgf)/m shall be applied to the tip of the terminal for 1 MIN in any direction.</b> 向排脚先端的任意一个方向施加1分钟5N(0.5kgf)的力度	<b>There shall be no damage to the terminal such as cracks,Looseness or play electrical ,And mechanical characteristics shall be satisfied.在排脚中没有裂开,松动等异常, 满足于机械, 电气性能</b>
4	<b>Life Test</b> (寿命测试)	<b>Without load 无负荷 :</b> <b>Connection and disconnection shall be made with the mating plug and jack for 5'000 cycles at a speed of 10 to 25 cycles/MIN.</b> 将结合了的标准Plug (尽量要近于中心的) 在1分钟以10~25的速度, 进行5 000次的插入, 拔出 <b>Load 负荷 :</b> <b>At rating condition ( Non-Inductive Load ) connection and disconnection shall be made 1,000 cycles at a speed 10 to 20 cycles / MIN.</b> 以定格状态 (无诱导负荷) 在1分钟内以10~20次的速度进行1,000次插入, 拔出	<b>Contact resistance</b> 接触电阻: <b>30 mΩ Max.</b> <b>Extraction Force</b> 拔出力: <b>3~30N</b> <b>Mechanical and electrical characteristics shall be satisfied.</b> 满足于机械和电气性能

#### 6.4 ENVIRONMENTAL (环境)

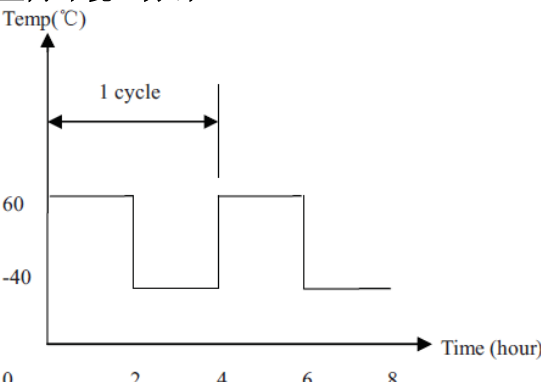
ITEM	DESCRIPTION (类型)	TEST CONDITION (测试条件)	REQUIREMENT (要求)
1	<b>Solder ability</b> (可焊性)	<b>Immerse the solder pin of the connector in solder bath at 245±5°C for 3±0.5sec.</b> <b>After dipped the pin in the flux 5sec.</b> 将端子脚浸入助焊剂中5秒, 然后将端子脚浸入245±5°C的锡炉中3±0.5秒	<b>Solder wetting: 95% of immersed area must show voids, Pin holes.</b> 锡附着面积应超过浸入表面积95%以上
2	<b>Resistance to Soldering Heat</b> (焊锡耐热性)	<b>The contact of terminal shall be tested resistance to soldering heat in the following conditions. After Resistance to soldering heat test Contact Resistance.</b> 端子应在下列条件下做耐吃锡性试验, 焊锡耐热性后试接触阻抗 <b>In case of solder iron (2 time) 电烙铁(两次)</b> <b>Temperature温度:350°C +/-5°C</b> <b>Time 时间: 5s+/-1s</b>	<b>Should not have any flaw scratch and crack.</b> 无任何裂痕、刮伤和破裂



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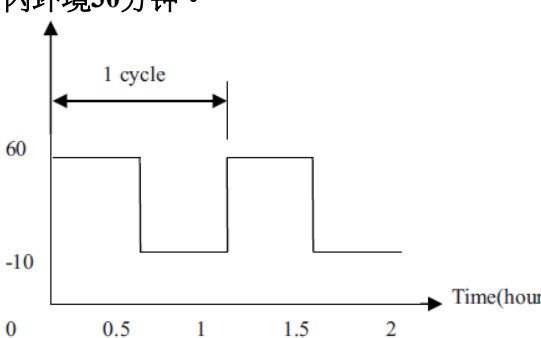
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3	<b>Humidity Test</b> (耐湿测试)	<p>The jack shall be stored at a temperature of <math>40\pm 2^{\circ}\text{C}</math> and a humidity of 90% to 96% for 96 Hr,Then the jack shall be maintained at stand atmospheric condition for 1 Hr for other procedures.</p> <p>放置于<math>40\pm 2^{\circ}\text{C}</math>的相应湿度为90~96% Hr环境中96小时后, 再将样品放在正常环境中1小时后进行测试</p>	<p>There shall be no damage on appearance.</p> <p>Mechanical and electrical characteristics shall be satisfied.</p> <p>外观无异常, 满足于机械和电气性能</p>
4	<b>Heat Resistance Test</b> (耐热测试)	<p>The jack shall be stored at a temperature of <math>70\pm 2^{\circ}\text{C}</math> for 96 Hours,And then the jack shall be maintained at stand atmospheric condition for 1 Hr for other procedures.</p> <p>放置于<math>70\pm 2^{\circ}\text{C}</math>中96小时后, 再将样品放在正常环境中1小时后进行测试</p>	<p>There shall be no damage on appearance.</p> <p>Mechanical and electrical characteristics shall be satisfied.</p> <p>外观无异常, 满足于机械和电气性能</p>
5	<b>Cold Resistance Test</b> (耐寒测试)	<p>The jack shall be stored at a temperature of <math>-25\pm 3^{\circ}\text{C}</math> for 96 hours and then it shall be subjected to the controlled recovery conditions for 1 hour after which.</p> <p>放置于<math>-25\pm 3^{\circ}\text{C}</math>中96小时后, 再将样品放在正常环境中1小时后进行测试</p>	<p>There shall be no damage on appearance.</p> <p>Mechanical and electrical characteristics shall be satisfied.</p> <p>外观无异常, 满足于机械和电气性能</p>
6	<b>Temperature Cycling Test</b> (温度循环测试)	<p>The jack shall be subjected to 5 cycles of the following conditions showed in the figure,And shall returned allowed to remain in room ambient condition for 30 minutes.</p> <p>将插座以下列条件作10个循环, 然后放回室内环境60分钟</p> 	<p>There shall be no deformation or cracks in molded part.</p> <p>产品不能变形与破裂</p> <p>Insertion&amp;extraction force : <b>3 to 30N.</b></p> <p>Contact resistance接触电阻: <b><math>30\text{ m}\Omega</math> Max.</b></p> <p>Insulation Resistance 绝缘电阻: <b><math>100\text{ M}\Omega</math> min.</b></p> <p>Dielectric strength voltage 耐电压: <b><math>500\text{V AC/MIN}</math></b>          (Between terminals端子之间)</p>



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7	<b>Salt Spray Test</b> (盐雾试验)	<p><b>1. Testing bath 测试容器 : The temperature shall 35±2°C in the ambient of the specimen during the test.</b> 在测试过程中, 产品周围环境温度35±2°C</p> <p><b>2. Spray apparatus喷雾设备 : The apparatus shall capable of producing fine dense mist uniformly.盐雾均匀喷出</b></p> <p><b>3. Salt water盐水 :The concentration of the salt water shall adjusted at 5±1% weight ratio at 35±2°C .</b> 盐水要在35±2°C温度条件下, 调整在5±1%比例范围内</p> <p><b>4. Testing time测试时间 : 24±0.5 hours. After washed in water . The sample shall left alone for 1 or 2 hours in a room ambient .</b> 清洗后, 样品在室内要单独放置1至2个小时</p>	<p><b>Appearance shall no extremely rust. And contacting portions should such that they will work without hindrance for practical.</b> 表面不能有严重的腐蚀, 接触部分要不妨碍正常使用</p>
8	<b>Heat Shock Test</b> (热冲击测试)	<p><b>The jack shall be subjected to 6 cycles of the following conditions showed in the figure. And then shall returned and allowed to remain in room ambient for 30 minutes.</b> 将插座以下列条件作5个循环, 然后放回室内环境30分钟。</p> 	<p><b>There shall be no deformation or cracks in molded part.</b> 产品不能变形与破裂</p> <p><b>Insertion&amp;extraction force : 3 to 30N.</b></p> <p><b>Contact resistance接触电阻: 30 mΩ Max.</b></p> <p><b>Insulation Resistance 绝缘电阻: 100 MΩ min.</b></p> <p><b>Dielectric strength voltage 耐电压: 500V AC/MIN</b> (Between terminals端子之间)</p>

