

## APPROVAL SPECIFICATIONS

DC插座

Product Model. DC-470-1-2.1-351

Customer's Part NO.

Customer's Model:

**Customer's Approval Requested.**

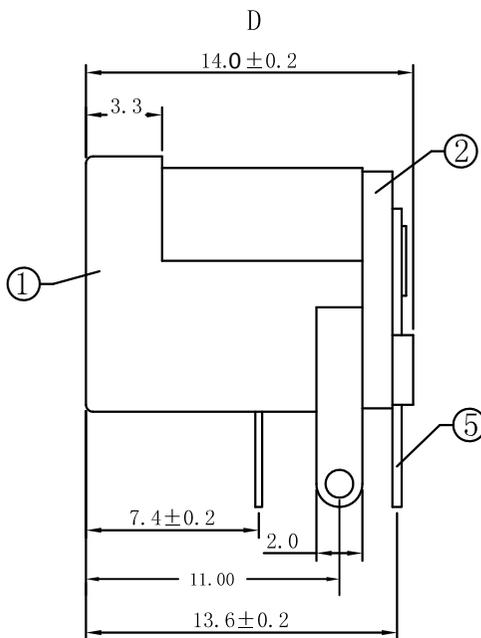
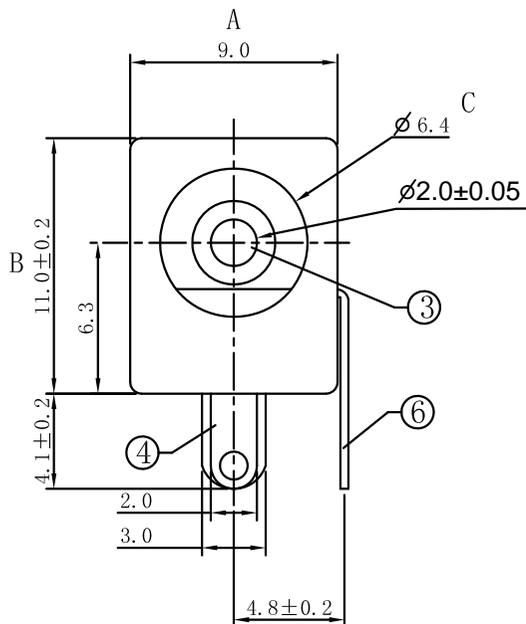
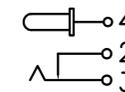
Please return this copy as a certification of your approval.

Checked by: \_\_\_\_\_ Date: \_\_\_\_\_

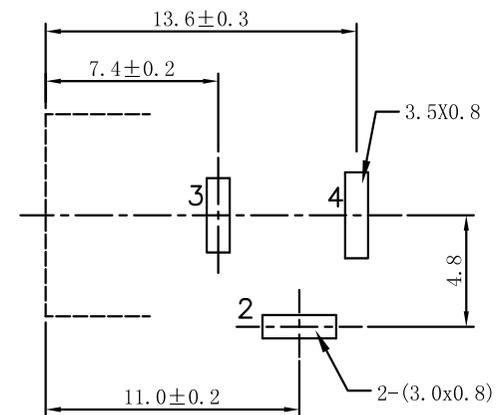
Approved by: \_\_\_\_\_ Date: \_\_\_\_\_

APPROVE	REVIEW	POLT
黄崇武	卢娇娇	孙斌

**SCHMATIC**



**P.C.B LAYOUT  
TOP VIEW**



PIN	∅1.65	∅2.0	∅2.35	∅2.5
APPD.				

6	CURVE PIECE	1	H62 BRASS	Ag-Plating
5	FLAT PIECE	1	H62 BRASS	Ag-Plating
4	SPRING	1	SUS 301	Ag-Plating
3	PIN	1	H59 /H62 BRASS	Ni-Plating
2	COVER	1	PBT	
1	HOUSING	1	PBT	
NO.	DESCRIPTION	QTY	MATERIAL	PLATING

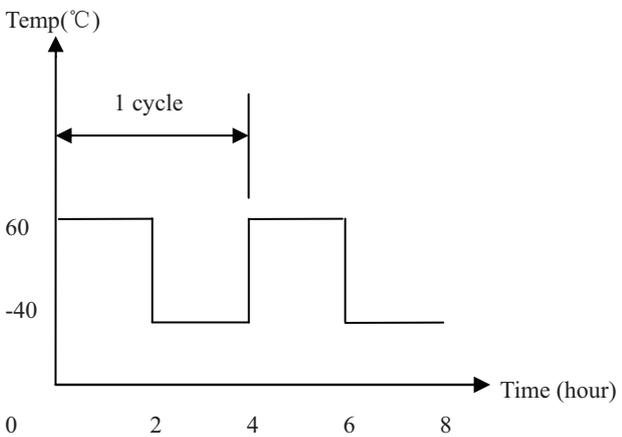
TOLERANCE UNLESS SPECIFIED				
UP TO 5mm±0.1	ANGULAR ±1°	1		
ABOVE 5mm±0.2		NO	DATE	REVISIONS
TITLE: DC POWER JACK		UNIT : MM	ROHS COMPLIANT	DWN
PART NO :DC-470-1-2.1-351 / DC-005		SCALE:1:1	CHK'D	
<p style="text-align: center;"><b>深圳市港源微键技术有限公司</b> Shenzhen Gangyuan Micro Key Technology Co., Ltd.</p>				APPD
				PRO.AGL:



# SPECIFICATION

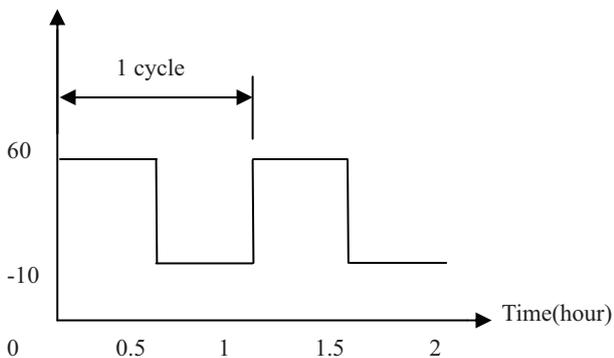
3.3	DIELECTRIC STRENGTH 耐电压	<p>AC 500V rms(50~60Hz)FOR 1 MIN TRIP CURRENT:0.5mA</p> <p>(1) BETWEEN BODY AND CONDUCTOR</p> <p>(2) BETWEEN CONDUCTORS NOT TO BE CONTACT</p> <p>(3) BETWEEN CONDUCTORS NOT TO BE WHEN PLUG IS INSERTED DC 500V 1 MIN</p> <p>输入 AC 500V (50Hz)/min 电压 1 分钟感度电流为 0.5mA, 按以下接触方法测试:</p> <p>(1) 插座体与排脚之间</p> <p>(2) 不接触的排脚之间</p> <p>(3) 插头插入时不接触排脚之间</p>	<p>WITHOUT DAMAGE TO PARTS ARCING OR BREAKDOWN ETC</p> <p>没有绝缘破坏等异常</p>
URABILITY (耐久性)			
ITEM 项目		TEST CONDITIONS 测试条件	PERFORMANCE 规格
4.1	SOLDERA- BILITY TEST 可焊性试验	<p>THE TOP OF THE TERMINALS SHALL BE DIPPED 1mm IN THE SOLDER BATH OF 240±5°C FOR 3±0.5 SECONDS</p> <p>端子顶部被浸入锡池中 1mm 深,温度为 240±5°C,时间为 3±0.5 秒</p>	<p>(1) SOLDER WETTING TIME SHALL BE 3 SEC OR LESS</p> <p>焊接时间应少于 3 秒</p> <p>(2) THE AREA OF SOLDERING SHOULD BE OVER 95%</p> <p>焊接面积应有 95%以上</p>
4.2	RESISTANCE TO SOLDERING HEAT TEST 耐焊性试验	<p>SOLDERING IRON METHOD: BIT TEMPERATURE 330±5°C APPLICATION TIME OF SOLDERING IRON 3±0.5 SEC HOWEVER EXCESSIVE PRESSURE SHALL NOT BE APPLIED TO THE TERMINAL</p> <p>手焊接的时候温度需控制在 330±5°C , 时间为 3±0.5 秒, 但不能在排脚上施加异常压力。</p>	<p>WITHOUT DEFORMATION OF CASE OR EXCESSIVE LOOSENESS OF TEMINALS ELECTRICAL CHARACTERISTICS SHALL BE SATISFIED</p> <p>本体无变形, 满足于机械、电气性能</p>
4.3	HUMIDITY TEST 潮湿试验	<p>THE JACK SHALL BE STORED AT A TEMPERATURE OF 40±2°C AND A HUMIDITY OF 90%TO 96% FOR 96 Hr,THEN THE JACK SHALL BE MAINTAINED AT STANDARD ATMOSPHERIC CONDITION FOR 1 Hr FOR OTHER PROCEDURES</p> <p>放置 40±2°C 的相应湿度为 90~96% Hr 环境中 96 小时后, 再将样板放在正常环境中 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、电气性能。</p>
4.4	HEAT TEST 耐热试验	<p>THE JACK SHALL BE STORED AT A TEMPERATURE OF 70±2°C FOR 96 HOURS, AND THEN IT SHALL BE SUBJECTED TO THE CONTROLLED RECOVERY MBASURBM</p> <p>放置在温度 70±2°C 中测试 96 小时后, 再放置正常室温中 1 小时来测定</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、电气性能。</p>

# SPECIFICATION

4.5	<p>COLD TEST 耐寒试验</p>	<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 放置在温度 <math>-25 \pm 3^{\circ}\text{C}</math> 中 96 小时后，再放置常温常湿中 1 小时来测定</p>	<p>THERE SHALL BE NO DAMAGE ON APPEARANCE MECHANICAL AND ELECTRICAL CHARACTERISTICS SHALL BE SATISFIED 外观无异常，满足于机械、电气性能</p>
4.6	<p>LIFE TEST 寿命试验</p>	<p>WITHOUT LOAD CONNECTION AND DISCONNECTION SHALL BE MADE WITH THE MATING PLUGS AND JACKS FOR 5, 000 CYCLES AT A SPEED OF 10 TO 25 CYCLES/MIN 无负荷 将结合了的标准 Plug(尽量要近于中心的)在 1 分钟内以 10~25 的速度，进行 5, 000 次插入，拔出</p> <p>LOAD: AT RATING CONDITION (NON-INDUCTIVE LOAD) CONNECTION AND DISCONNECTION SHALL BE MADE 1,000 CYCLES AT A SPEED 10 TO 20 CYCLES / MIN 负荷 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</p>	<p>(1) CONTACT RESISTANCE SHALL BE <math>\leq 0.1 \Omega</math> (2) DISCONNECTION FORCE SHALL BE 3 TO 30N (3) MECHANICAL AND ELECTRICAL CHARACTERISTICS SHALL BE SATISFIED (1) 接触电阻 <math>\leq 0.1 \Omega</math> (2) 拔出力是 3~30N (3) 其它:满足于机械、电气性能</p>
4.7	<p>TEMPERATURE CYCLING TEST 温度循环测试</p>	<p>THE JACK SHALL BE SUB JECTED TO 5 CYCLES OF THE FOLLOWING CONDITIONS SHOWED IN THE FIGURE,AND THEN SHALL RETURNED ALLOWED TO REMAIN IN ROOM AMBIENT CONDITION FOR 30 MINUTES 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>Temp(<math>^{\circ}\text{C}</math>)</p> <p>Time (hour)</p>	<p>THERE SHALL BE NO DEFORMATION OR CRACKS IN MOLDED PART. INSERTION &amp; EXTRACTION FORCE:3 TO 30N CONTACT RESISTANCE:MAX.30M <math>\Omega</math> INSULATION RESISTANCE: MIN.100 M <math>\Omega</math> DIELECTRIC WITHSTANDING VOLTAGE: 500VAC/MIN(BETWEEN TERMINALS)</p> <p>产品不能变形与破裂 插拔力: 3N 至 30N 接触电阻: 最大 30m <math>\Omega</math> 绝缘电阻: 最小 100 M <math>\Omega</math> 绝缘耐压: 最小 500VAC (端子之间)</p>

# SPECIFICATION

ENVIRONMENTAL (环境性能)		
ITEM 项目	TEST CONDITIONS 测试条件	PERFORMANCE 规格
4.8	<p style="text-align: center;">SALT MIST TEST 盐雾测试</p> <p>1. TESTING BATH: THE TEMPERATURE SHALL <math>35^{\circ}\text{C}\pm 2^{\circ}\text{C}</math> IN THE AMBIENT OF THE SPECIMEN DURING THE TEST.</p> <p>2. SPRAY APPARAUS: THE APPARATUS SHALL CAPABLE OF PRODUCING FINE DENSE MIST UNIFORMLY.</p> <p>3. SALT WATER: THE CONCENTRATION OF THE SALT WATER SHALL ADJUSTED AT <math>5\pm 1\%</math> WEIGHT RATIO AT <math>35^{\circ}\text{C}\pm 2^{\circ}\text{C}</math>.</p> <p>4. TESTING TIME <math>24\pm 0.5</math>HOURS. AFTER WASHED IN WATER 。 THE SAMPLE SHALL LEFT ALONE FOR 1 OR 2 HOURS IN A ROOM AMBIENT.</p> <p>1. 测试容器: 在测试过程中, 产品周围环境温度 <math>35^{\circ}\text{C}\pm 2^{\circ}\text{C}</math>。</p> <p>2. 喷雾设备: 盐雾要均匀喷出。</p> <p>3. 盐水: 盐水要在 <math>35^{\circ}\text{C}\pm 2^{\circ}\text{C}</math> 温度条件下, 调整在 <math>5\pm 1\%</math> 比例范围内。</p> <p>4. 测试时间: <math>24\pm 0.5</math> 小时 清洗后, 样品在室内要单独放置 1 至 2 个小时。</p>	<p>APPEARANCE SHALL NOT EXTREMELY RUST.AND CONTACTING PORTIONS SHOULD SUCH THAT THEY WILL WORK WITHOUT HINDRANCE FOR PRACTICAL USE.</p> <p>表面不能有严重的腐蚀, 接触部分要不妨碍正常使用。</p>

4.9	<p style="text-align: center;">HEAT SHOCK TEST 热冲击测试</p> <p>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 CONDITION FOR 30 MINUTES 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>TEMP (<math>^{\circ}\text{C}</math>)</p> 	<p>THERE SHALL BE NO DEFORMATION OR CRACKS IN MOLDED PART.</p> <p>INSERTION &amp; EXTRACTION FORCE: 3 TO 30N</p> <p>CONTACT RESISTANCE: MAX. <math>30\text{m}\Omega</math></p> <p>INSULATION RESISTANCE: MIN. <math>100\text{M}\Omega</math></p> <p>DIELECTRIC WITHSTANDING VOLTAGE: 500VAC/MIN (BETWEEN TERMINALS)</p> <p>产品不能变形与破裂 插拔力: 3N 至 30N 接触电阻: 最大 <math>30\text{m}\Omega</math> 绝缘电阻: 最小 <math>100\text{M}\Omega</math> 绝缘耐压: 最小 500VAC (端子之间)</p>
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