



东莞市洋瀚实业有限公司

NO: 001

SPECIFICATION
承認書

Customer: _____

Description: DC POWER JACK

Part No: PJ-218A

Customer'S Part No: _____

Revision: _____

APPROVED BY	CHECKED BY	REVIEWED BY	PREPARED BY

CUSTOMER APPROVED:

SPECIFICATION

RIPTION 名称: DC POWER JACK MODEL NO. PJ-218A		DATE 日期: 2014年1月13日
RATING (额定值):		DC 24V 0.5A
PRACTICAL TEMPERATURE RANGE 使用温度范围	-16~65°C 在-16°C~+65°C 温度内使用	
STANDARD ATMOSPHERIC CONDITIONS 测试标准状态	<p>UNLESS OTHERWISE SPECIFIED THE STANDARD RANGE OF ATMOSPHERIC CONDITIONS FOR MAKING MEASUREMENTS AND TESTS ARE AS FOLLOWS:</p> <p>(1) BETWEEN BODY AND CONDUCTOR: 5°C TO 35°C (2) BETWEEN CONDUCTORS NOT TO BE CONTACT: 45% TO 85% (3) PRESSURE: 86Kpa TO 106Kpa</p> <p>在没有指定的情况下测试温度、湿度、气压如下:</p> <p>(1) 温度为 5°C~35°C (2) 湿度为 45%~85% (3) 气压为 86 Kpa~106Kpa</p>	
MECHANICAL (机械性能)		
ITEM 项目	TEST CONDITIONS 测试条件	PERFORMANCE 规格
1 1 CONNECTION FORCE 插入力度	MEASUREMENT SHALL BE MADE AFTER CONNECTING AND DISCONNECTING USING STANDARD PLUG GAUGE 3 TIMES。 依据标准的 PLUG GAUGE 做第3次拔插后测定	3~20N
DISCONNECTI ON FORCE 拔出力度	MEASUREMENT SHALL BE MADE AFTER CONNECTING AND DISCONNECTING USING STANDARD PLUG GAUGE 3 TIMES。 依据标准的 PLUG GAUGE 做第3次拔插后测定	3~20N
2 2 TERMINAL STRENGTH 端子强度	A STATIC LOAD OF 0.1N/m(1kgf/cm)SHALL BE APPLIED TO THE TIP OF THE TERMINAL FOR 1 MIN IN ANY DIRECTION 向排脚先端的任意一个方向加1分钟 0.1N/m(1kgf/cm)的力度.	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
ELECTRICAL (电气性能)		
ITEM 项目	TEST CONDITIONS 测试条件	PERFORMANCE 规格
3.1 3.1 CONTACT RESISTANCE 接触电阻	MEASURED AT SMALL CURRENT (100mA OR LESS) 1000Hz 在微小电流 (100 mA) 以下测试	$\leq 0.03 \Omega$
3.2 3.2 INSULATION RESISTANCE 绝缘电阻	APPLY A VOLTAGE OF 500V DC FOR 1 MIN TO FOLLOWING PORTIONS AFTER WHICH MEASUREMENT SHALL BE MADE: (1) BETWEEN BODY AND CONDUCTOR (2) BETWEEN CONDUCTORS NOT TO BE CONTACT (3) BETWEEN CONDUCTORS NOT TO BE WHEN PLUG IS INSERTED DC 500V 1 MIN 输入 500V DC 电压1分钟, 按以下接触方法测试: (1) 插座体与排脚之间 (2) 不接触的排脚之间 (3) 插头插入时不接触排脚之间	$\geq 100M \Omega$

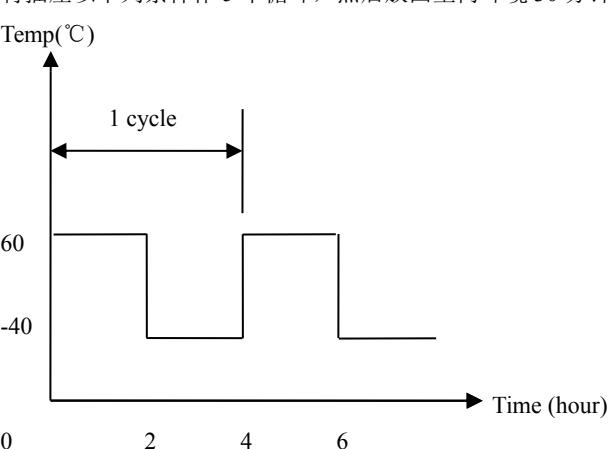
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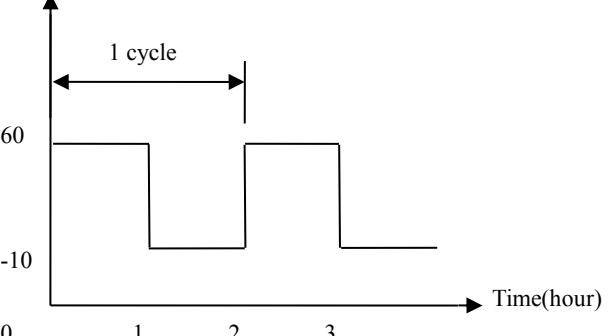
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3.3	DIELECTRIC STRENGTH 耐电压	<p>AC 500V ims(50~60Hz)FOR 1 MIN TRIP CURRENT:0.5mA</p> <p>(1) BETWEEN BODY AND CONDUCTOR</p> <p>(2) BETWEEN CONDUCTORS NOT TO BE CONTACT</p> <p>(3) BETWEEN CONDUCTORS NOT TO BE WHEN PLUG IS INSERTED DC 500V 1 MIN</p> <p>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)			
4.1	SOLDERABILITY 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 焊接时间应少于 3 秒</p> <p>(2) THE AREA OF SOLDERING SHOULD BE OVER 75% 焊接面积应有 75% 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 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 TERMINALS ELECTRICAL CHARACTERISTICS SHALL BE SATISFIED 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 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. MECHANICAL AND ELECTRICAL CHARACTERISTICS SHALL BE SATISFIED 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 SUBJECT TO THE CONTROLLED RECOVERY MBASURBM 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>	

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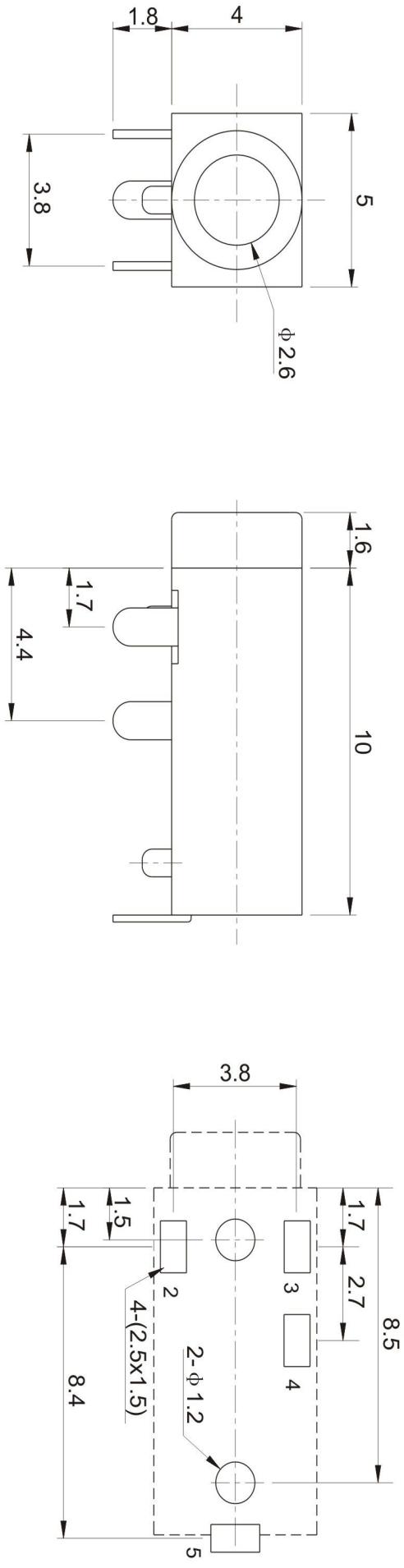
4.5	COLD TEST 耐寒试验	THE JACK SHALL BE STORED AT A TEMPERATURE OF $-25 \pm 3^\circ\text{C}$ FOR 96 HOURS AND THEN IT SHALL BE SUBJECT TO THE CONTROLLED RECOVERY CONDITIONS FOR 1 HOUR AFTER WHICH 放置在温度 $-25 \pm 3^\circ\text{C}$ 中 96 小时后, 再放置常温常湿中 1 小时来测定	THERE SHALL BE NO DAMAGE ON APPEARANCE MECHANICAL AND ELECTRICAL CHARACTERISTICS SHALL BE SATISFIED 外观无异常, 满足于机械、电气性能
4.6	LIFE TEST 寿命试验	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 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	(1) CONTACT RESISTANCE SHALL BE $\leq 0.1 \Omega$ (2) DISCONNECTION FORCE SHALL BE 3 TO 20N (3) MECHANICAL AND ELECTRICAL CHARACTERISTICS SHALL BE SATISFIED (1) 接触电阻 $\leq 0.1 \Omega$ (2) 拔出力是 3~20N (3) 其它:满足于机械、电气性能
4.7	TEMPARATURE CYCLINGTEST 温度循环测试	THE JACK SHALL BE SUBJECT 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 5 个循环, 然后放回室内环境 30 分钟 Temp($^\circ\text{C}$) 	THERE SHALL BE NO DEFORMATION OR CRACKS IN MOLDED PART. INSERTION & EXTRACTION FORCE: 3 TO 20N CONTACT RESISTANCE: MAX. 30M Ω INSULATION RESISTANCE: MIN. 100 M Ω DIELECTRIC WITHSTANDING VOLTAGE: 500VAC/MIN(BETWEEN TERMINALS) 产品不能变形与破裂 插拔力: 3N 至 20N 接触电阻: 最大 30m Ω 绝缘电阻: 最小 100 M Ω 绝缘耐压: 最小 500VAC (端子之间)

4.8	HEAT SHOCK TEST 热冲击测试	<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</p> <p>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 (°C)</p> 	<p>THERE SHALL BE NO DEFORMATION OR CRACKS IN MOLDED PART.</p> <p>INSERTION & EXTRACTION FORCE: 3 TO 20N</p> <p>CONTACT RESISTANCE: MAX. 30M Ω</p> <p>INSULATION RESISTANCE: MIN. 100 M Ω</p> <p>DIELECTRIC WITHSTANDING VOLTAGE: 500VAC/MIN(BETWEEN TERMINALS)</p> <p>产品不能变形与破裂</p> <p>插拔力: 3N 至 20N</p> <p>接触电阻: 最大 30m Ω</p> <p>绝缘电阻: 最小 100 M Ω</p> <p>绝缘耐压: 最小 500VAC (端子之间)</p>
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制 表	校 对	审 核	备注:
WCX	lzw		

REV	A		
DATB	02/12/24		

P.C.B LAYOUT TOP VIEW



PJ-218A		PJ-218A-2	
2	5	2	5
5	4	4	4
4	3	3	3
3	2	2	2
2	1	1	1
1	0.5	0.5	0.5
0	0	0	0

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NO	PART	MATERIAL	QTY	REMARKS
7	TERMINAL-3	BRASS-0.4T	2	Tin Plating
6	TERMINAL-2	BRASS-0.4T	2	Tin Plating
5	TERMINAL-1	BRASS-0.5T	2	Tin Plating
4	SOCKET	BRASS-0.4T	4	Tin/Gold Plating
3	UP&DOWN COVER	PA	2	BLACK
2	WASHER	PA	4	
1	HOUSING	PA	1	BLACK
			OVER 10	±0.25