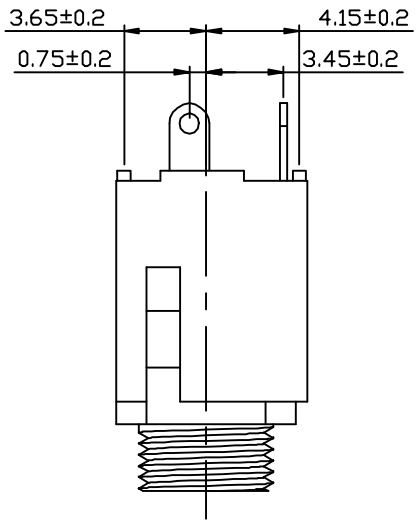
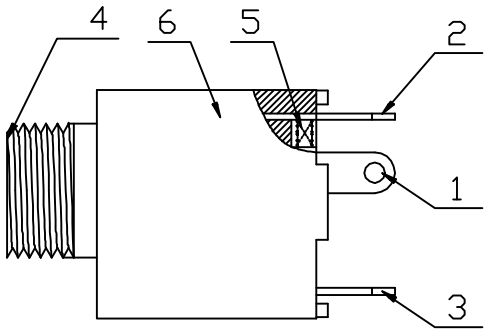
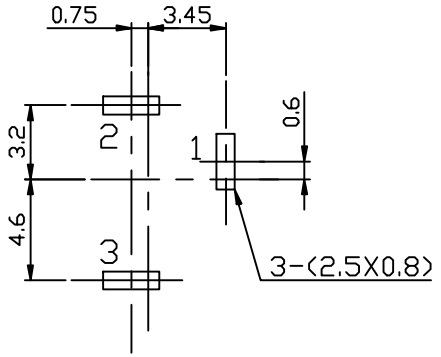
DWG. NO. JK-3577-F REV. "A"

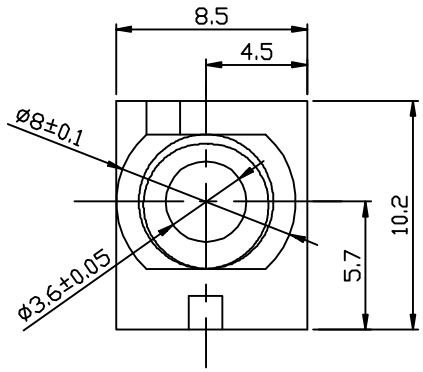
PART NO.: RSJ-0353-NL

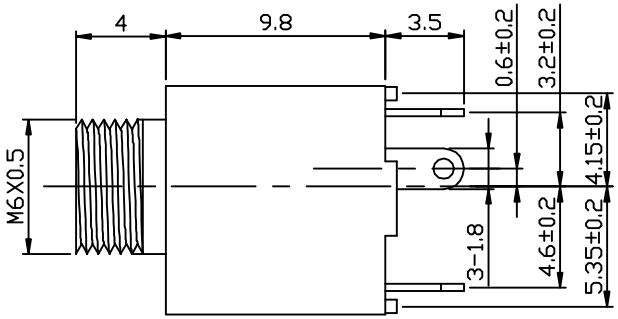


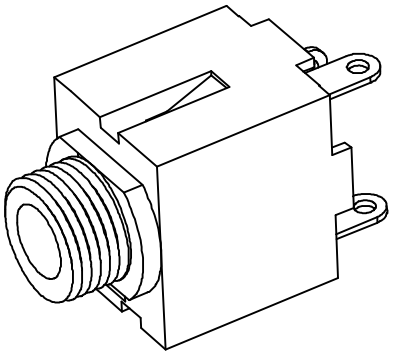


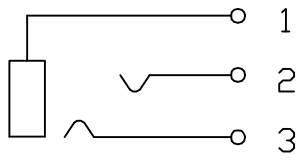


PCB LAYOUT TOP VIEW









CIRCUIT DIAGRAM

No.	PART NAME	QTY	MATERIAL(THICK,COLOR)	REMARK
6	HOUSING	1	PA(BLACK)	
5	SPRING	1	MUSIC WIRE	
4	TURN FIX	1	H59	CuSn-PLATED
3	TERMINAL 3	1	PHOSPHOR BRONZE t=0.30	CuSn-PLATED
2	TERMINAL 2	1	PHOSPHOR BRONZE t=0.30	CuSn-PLATED
1	TERMINAL 1	1	BRASS t=0.35	CuSn-PLATED

NOTE: ALL DIMS ARE IN mm

ECN#	DATE	SYM	REVISION RECORD	AUTH	BY
14-042	14/05/06	A	ADD SPEC AS PAGE 2	BM	IAN

PROJECTION

SCALE N/A

TOLERANCE EXCEPT AS NOTED

DEC. MILLIMETERS
L≤4:±0.15
4<L≤16:±0.2
16<L≤63:±0.3

ANG. ±5°

RDI Research Develop Innovate

RDI, Inc. 333 North Bedford Road, Suite 135, Mount Kisco, NY 10549

TITLE: EARPHONE JACK-RoHS COMPLIANT — SHEET 1 OF 2

DR.	DATE	REF.
JY	03/17/09	P/N: RSJ-0353-NL

CK.	PRE-	DRAWING NO.	SIZE	REV.
Melissa	JK	3577	F	A

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DWG. NO. JK-3577-F REV. "A"

PART NO.: RSJ-0353-NL

SPECIFICATION			
RIPTION DATE 名称：PHONE JACK 日期：2014 年5 月6 日MODEL NO. PJ-3081AMH-Z1S			
RATING（额定值）： DC 30V 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 ATMOSPHEIC CONDITIONS 测试标准状度		UNLESS OTHERWISE SPECIFIED THE STANDARD RANGE OF ATMOSPHERIC CONDITIONS FOR MAKING MEASUREMENTS AND TESTS ARE AS FOLLOWS: (1) BETWEEN BODY AND CONDUCTOR: 5°C TO 35℃ (2) BETWEEN CONDUCTORS NOT TO BE CONTACT: 45% TO 85% (3) PRESSURE: 86Kpa TO 106Kpa 在没有指定的情况下测试温度、湿度、气压如下：(1) 温度为5℃~35℃ (2) 湿度为45%~85% (3) 气压为86 Kpa~106Kpa	
MECHANICAL（机械性能）			
ITEM 项目		TEST CONDITIONS 测试条件	PERFORMANCE 规格
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	TERMINAL STRENGTH 端子强度	A STATIC LOAD OF 0.1N/m(1kgfcm)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(1kgfcm) 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	CONTACT RESISTANCE 接触电阻	MEASURED AT SMALL CURRENT（100m A OR LESS） 1000Hz在微小电流（100 m A）以下测试	≤0.03Ω
3.2	INSULATION RESISTANCE 绝缘电阻	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	≥100MΩ
3.3	DIELECTRIC STRENGTH 耐电压	AC 500V ims(50~60Hz)FOR 1 MIN TRIP CURRENT0.5mA (1) BETWEEN BODY AND CONDUCTOR (2) BETWEEN CONDUCTORS NOT TO BE CONTACL (3) BETWEEN CONDUCTORS NOT TO BE WHEN PLUG IS INSERTED DC 500V 1 MIN 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: (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	WITHOUT DAMAGE TO PARTS ARCING OR BREAKDOWN ETC 没有绝缘破坏等异常
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	THE TOP OF THE TERMINALS SHALL BE DIPPED 1mm IN THE SOLDER BATH OF 240±5℃ FOR 3±0.5 SECONDS 端子顶部被浸入锡池中1mm 深,温度为240±5℃,时间为3 ±0.5 秒	（1）SOLDER WETTING TIME SHALL BE 3 SEC OR LESS 焊接时间应少于3 秒（2）THE AREA OF SOLDERING SHOULD BE OVER 75% 焊接面积应有75% 以上
4.2	RESISTANCE TO SOLDERING HEAT TEST 耐焊性试验	SOLDERING IRON METHOD: BIT TEMPERATURE 330±5℃ APPLICATION TIME OF SOLDERING IRON3±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℃，时间为3±0.5 秒，但不能在排脚上施加异常压力.	WITHOUT DEFORMATION OF CASE OR EXCESSIVE LOOSENESS OF TEMINALS ELECTRICAL CHARACTERISTICS SHALL BE SATISFIED 本体无变形，满足于机械、电气性能
4.3	HUMIDITY TEST 潮湿试验	THE JACK SHALL BE STORED AT A TEMPERATURE OF 40±2℃ 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℃ 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	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．
4.4	HEAT TEST 耐热试验	THE JACK SHALL BE STORED AT A TEMPERATURE OF 70±2℃ FOR 96 HOURS，AND THEN IT SHALL BE SUBJECTED TO THE CONTROLLED RECOVERY MBASURBM 放置在温度70±2℃ 中测试96 小时后，再放置正常室温中1 小时来测定	
4.5	COLD TEST 耐寒试验	THE JACK SHALL BE STORED AT A TEMPERATURE OF-25±3℃ FOR 96 HOURS AND THEN IT SHALL BE SUBJECTED TO THE CONTROLLED RECOVERY CONDITIONS FOR 1 HOUR AFTER WHICH 放置在温度-25±3℃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 S PEED 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 ≤ 0.1Ω（2） DISCONNECTION FORCE SHALL BE 3 TO 20N（3） MECHANICAL AND ELECTRICAL CHARACTERISTICS SHALL BE SATISFIED (1) 接触电阻≤0.1Ω (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 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5 个循环，然后放回室内环境30 分钟（℃） 80 40 0 -40（Hours） 70℃ -20℃ 1 cycle 8 hours	THERE SHALL BE NO DEFORMATION OR CRACKS IN MOLDED PART. INSERTION & EXTRACTION FORCE:3 TO 20N CONTACT RESISTANCEMAX.30MΩ INSULATION RESISTANCE: MIN.100 MΩ DIELECTRIC WITHSTANDING VOLTAGE: 500V AC MIN(BETWEEN TERMINALS) 产品不能变形与破裂插拔力：3N 至20N 接触电阻：最大30mΩ 绝缘电阻：最小100 MΩ 绝缘耐压：最小500VAC（端子之间）
4.8	Cold&HEAT SHOCK TEST 冷热冲击测试	THE JACK SHALL BE SUBJECTED TO 5 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（℃） （Hours）0.5 1 cycle 1 hour 0.5 0.50.5 70 -20	THERE SHALL BE NO DEFORMATION OR CRACKS IN MOLDED PART. INSERTION & EXTRACTION FORCE:3 TO 20N CONTACT RESISTANCEMAX.30MΩ INSULATION RESISTANCE: MIN.100 MΩ DIELECTRIC WITHSTANDING VOLTAGE: 500V AC MIN(BETWEEN TERMINALS) 产品不能变形与破裂插拔力：3N 至20N 接触电阻：最大30mΩ 绝缘电阻：最小100 MΩ 绝缘耐压：最小500VAC（端子之间）

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RDI Research Develop Innovate

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TITLE: EARPHONE JACK-RoHS COMPLIANT

DR.	DATE	REF.	SHEET
JY	03/17/09	P/N: RSJ-0353-NL	2 OF 2

CK.	PRE-	DRAWING NO.	SIZE	REV.
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