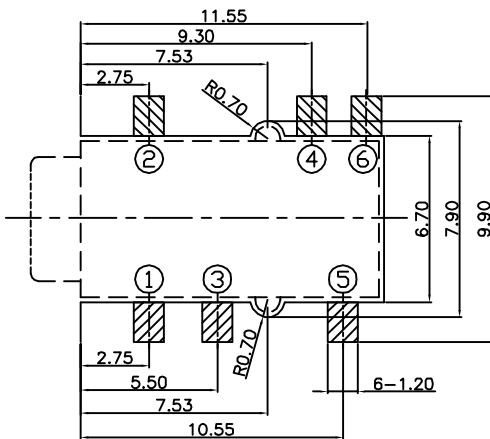
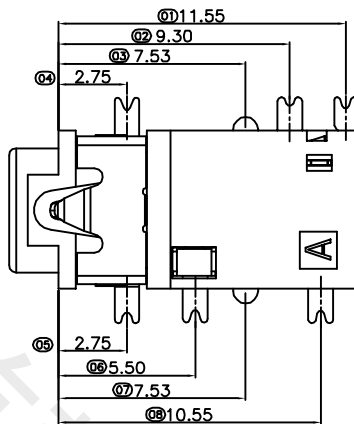
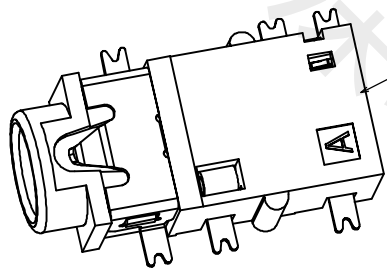
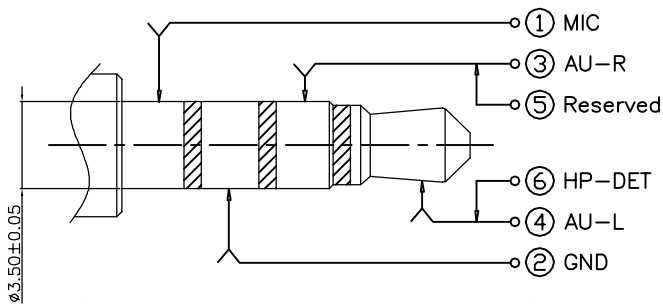
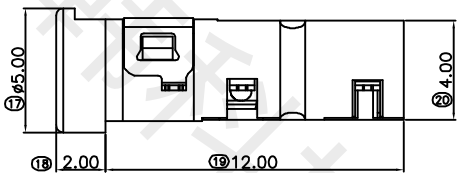
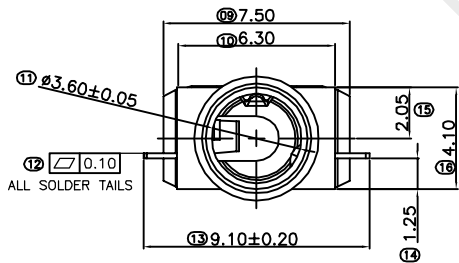


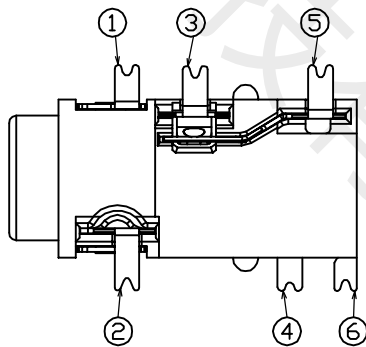
REVISIONS							
REV.	ECN NO.	LOCATION	DESCRIPTION	DATE	DESIGN	CHECKED	APPROVED
A	N/A		INITIAL RELEASE				



RECOMMENDED PCB LAYOUT



(ø3.50mm 4 POLE PLUG DETAIL DRAWING)



- NOTES:
1. CONTACT CURRENT RATING: 12V DC,1A.
  2. CONTACT RESISTANCE: 50mΩ MAX.;
  3. INSULATION RESISTANCE: 100MΩ MIN.,250V DC/1min;
  4. DIELECTRIC WITHSTANDING: 500V AC MIN.;
  5. DURABILITY: 5,000 CYCLES MIN.;
  6. CONNECTOR INSERTION FORCES: 0.3kgf-3kgf;
  7. CONNECTOR EXTRACTION FORCES: 0.3kgf-3kgf;
  8. OPERATING TEMPERATURE RANGE: -20 to +80°C;

7	HOUSING	1	PA9T,UL94V-0		Black
6	CONTACT F	1	C5191-EH T=0.20mm	Contact area:1u" Au Min Welding area:1u" Au Min Nickel base:50u" Ni Min	
5	CONTACT E	1	C5191-EH T=0.20mm		
4	CONTACT D	1	C5191-EH T=0.20mm		
3	CONTACT C	1	C5191-EH T=0.20mm		
2	CONTACT B	1	C5191-EH T=0.20mm		
1	CONTACT A	1	C5191-EH T=0.20mm		
ITEM	PART NAME	Q'TY	MATERTAL	DESCRIPTION	REMARK

MEASURE POINT:	
QUADRANT POINT	QP
TANGENCY POINT	TP
INTERSECTION POINT	IP
UNLESS OTHERWISE SPECIFIED, TOLERANCE:	
X".	±5°
X.x	±0.30
X.xx	±0.20
X.xxx	±
ANGULAR	±



深圳市首韩科技有限公司

DESIGN	李春风	DATE	2020/10/20
CHECKED	钟华华	DATE	2020/10/20
APPROVED	罗孝金	DATE	2020/10/20
PART NO.	PJ-342C CB		
DRAWING NO.			

TITLE:		
耳机座		
REV.: A	SCALE: 1:1	UNIT: mm
SIZE: A4	SHEET: 1/1	



深圳市首韩科技有限公司

SHENZHEN SHOUHAN TECHNOLOGY CO., LTD

Tel: 0755-27597601 Fax: 0755-27597491

## 承 认 书

### SPECIFICATION FOR APPROVAL

产 品 编 码

Material code:

产品名称 Project:

耳机座

规格型号 Part No:

PJ-342C CB

贵公司承认印 Approval signatures

料 号/Part No.	签 章/Signatures

日期 Date:

拟制/Drawn	李春风	
审核/Check	钟华华	
批准/Approved	罗孝金	



## DESCRIPTION

名称: PHONE JACK

MODEL NO.: PJ-342C CB

RATING (额定值): DC 12V 1 A

PRACTICAL  
TEMPERATURE  
RANGE  
使用温度范围

-20°C~80°C  
在-20°C~+80°C 温度内使用

STANDARD  
ATMOSPHERIC  
CONDITIONS  
测试标准状况

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°C  
(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°C~35°C  
(2) 湿度为 45%~85%  
(3) 气压为 86 Kpa~106 Kpa

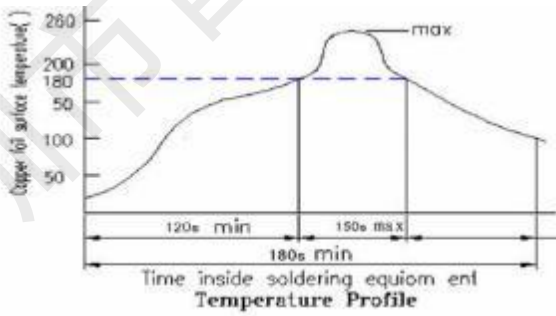
## MECHANICAL (机械性能)

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	0.3 ~ 3Kgf
	DISCONNECT 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	0.3 ~ 3Kgf
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	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	$\leq 50m\Omega$
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	$\geq 100M\Omega$

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</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>
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URABILITY (耐久性)			
ITEM项目		TEST CONDITIONS 测试条件	PERFORMANCE 规格
4.1	SOLDERABILITY TEST 可焊性试验	<p>THE TOP OF THE TERMINALS SHALL BE DIPPED 1mm IN THE SOLDER BATH OF <math>240 \pm 5^{\circ}\text{C}</math> FOR <math>3 \pm 0.5</math> SECONDS</p> <p>端子顶部被浸入锡池中 1mm 深,温度为 <math>240 \pm 5^{\circ}\text{C}</math>,时间为 <math>3 \pm 0.5</math> 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>REFLOW SOLDERING CONDITIONS:</p> <p>PREHEAT:TEMPERATURE ON THE COPPER FOIL SURFACE SHOULD REACH <math>180^{\circ}\text{C}</math>.120S AFTER THE P.C.B ENTERED INTO THE SOLDERING EQUIPMENT.</p> <p>TALLEST TEMPERATURE:TEMPERATURE ON THE COPPER FOIL SURFACE SHOULD REACH THE PEAK TEMPERATURE OF <math>250 \pm 5^{\circ}\text{C}</math> WITH IN 20 SECONDS.</p> <p>过回流焊条件: 预热:电镀层表面的温度应达到<math>180^{\circ}\text{C}</math>, 120s 后电路板进入回流焊设备。 最高温度:电镀层表面温度最高为<math>250 \pm 5^{\circ}\text{C}</math>且 停留不超过 20秒。</p> 	<p>WITHOUT DEFORMATION OF CASE OR EXCESSIVE LOOSENESS OF TERMINALS ELECTRICAL CHARACTERISTICS SHALL BE SATISFIED</p> <p>本体无变形, 满足于机械、电气性能</p>
4.2	RESISTANCE TO SOLDERING HEAT TEST 耐焊性试验	<p>SOLDERING IRON METHOD:</p> <p>BIT TEMPERATURE <math>330 \pm 5^{\circ}\text{C}</math> APPLICATION TIME OF SOLDERING IRON <math>3 \pm 0.5</math> SEC</p> <p>HOWEVER EXCESSIVE PRESSURE SHALL NOT BE APPLIED TO THE TERMINAL</p> <p>手焊接的时候温度需控制在 <math>330 \pm 5^{\circ}\text{C}</math>, 时间为 <math>3 \pm 0.5</math> 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</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 STOREDATA 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 STANDARD ATMOSPHERIC CONDITION FOR 1 Hr FOR OTHER PROCEDURES</p> <p>放置 <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 STOREDATA TEMPERATURE OF <math>70\pm 2^{\circ}\text{C}</math> FOR 96 HOURS, AND THEN IT SHALL BE SUBJECTED TO THE CONTROLLED RECOVERY MBASURBM</p> <p>放置在温度 <math>70\pm 2^{\circ}\text{C}</math> 中测试 96 小时后, 再放置正常室温中 1 小时来测定</p>	<p>外观无异常, 满足于机械、电气性能。</p>
4.5	COLD TEST 耐寒试验	<p>THE JACK SHALL BE STOREDATA 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</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>
4.6	LIFE TEST 寿命试验	<p>AT RATING CONDITION (NON-INDUCTIVE LOAD) CONNECTION AND DISCONNECTION SHALL BE MADE 5000 CYCLES AT A SPEED 10 TO 20 CYCLES / MIN</p> <p>以定格状态(无诱导负荷)在 1 分钟内以 10~20 次的速度进行 5000 次插入、拔出</p>	<p>1. CONTACT RESISTANCE SHALL BE <math>\leq 0.1\Omega</math></p> <p>2. DISCONNECTION FORCE SHALL BE 3 TO 20N</p> <p>3. MECHANICAL AND ELECTRICAL CHARACTERISTICS SHALL BE SATISFIED</p> <p>(1) 接触电阻 <math>\leq 0.1\Omega</math></p> <p>(2) 拔出力是 3~20N</p> <p>(3) 其它: 满足于机械、电气性能</p>
4.7	COLD&HEAT SHOCK TEST 冷热冲击测试	<p>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</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(<math>^{\circ}\text{C}</math>)</p>  <p>(Hours)</p>	<p>THERE SHALL BE NO DEFORMATION OR CRACKS IN MOLDED PART.</p> <p>INSERTION &amp; EXTRACTION FORCE: 3 TO 20N</p> <p>CONTACT RESISTANCE: MAX. 30M<math>\Omega</math></p> <p>INSULATION RESISTANCE: MIN. 100 M<math>\Omega</math></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<math>\Omega</math></p> <p>绝缘电阻: 最小 100 M<math>\Omega</math></p> <p>绝缘耐压: 最小 500VAC (端子之间)</p>