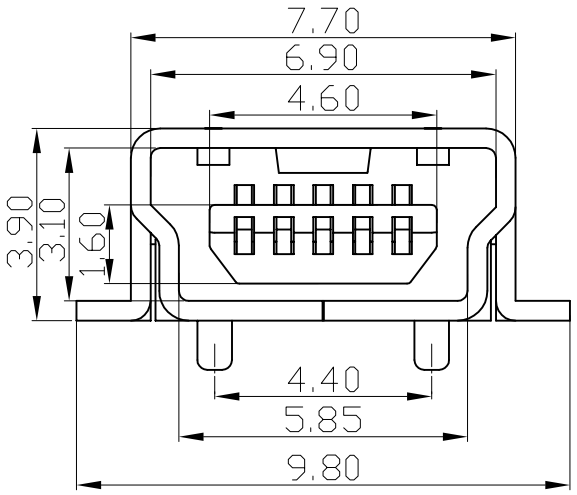
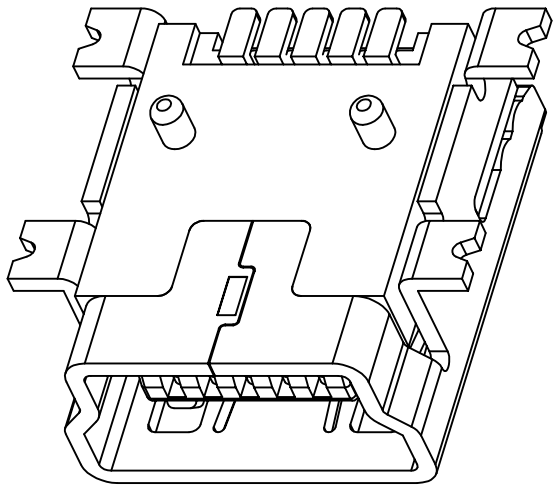
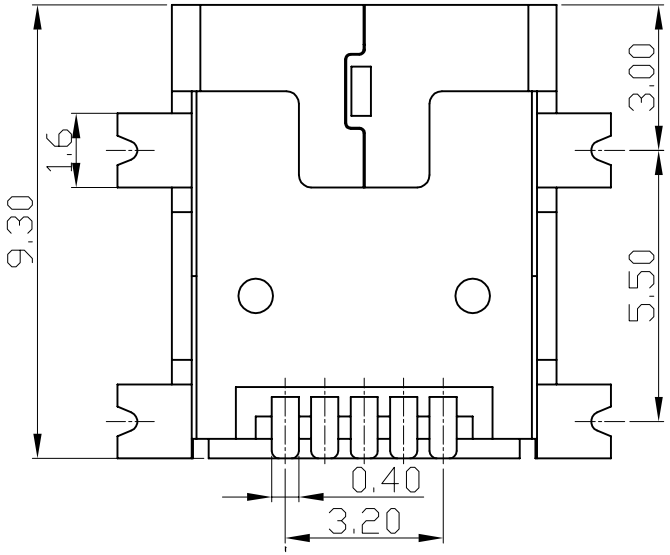
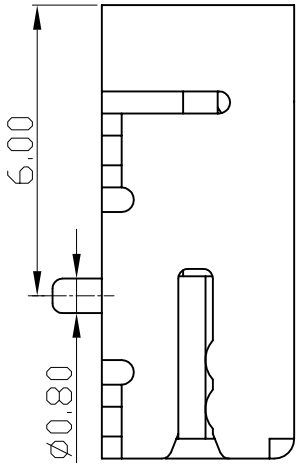
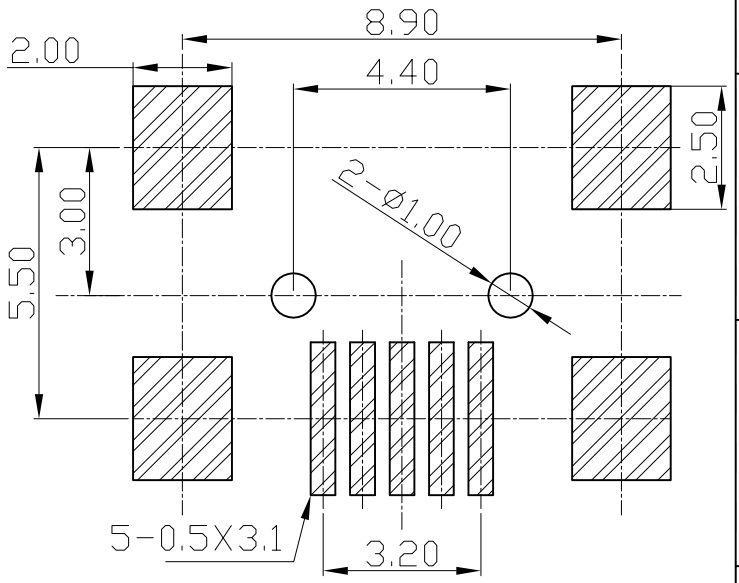








P.C.B LAYOUT(对接尺寸)



Item	Name	No.	Material	Standards	Surface
1	Case	1	Copper	T=0.30mm	Tin plating
			or Metal	T=0.30mm	Tin plating
2	Terminals	4	Brass	T=0.25mm	header-gold plated body-tin plated
3	Base	1	PBT	UL 94-V0	White

公差对照表	
尺寸范围	公差范围
0～10	±0.1
10～20	±0.2
20～40	±0.3
40～60	±0.5
60～80	±0.5
80～100	±1
120～140	±1.5

浙江步步精电子有限公司

视角	批准		名称 MINI-5P
单位 MM	审核		型号
比例 7:1	设计		编辑日期 2007.03.11

浙江步步精电子有限公司	DOCUMENT NUMBER 文件编号	
	DATE 日期	2007年04月02日
SPECIFCATION 规格书	PAGE 页 数	共 3 页 第 1 页

MODEL NO.
产品名称: mini 5p

ORGANIZER 编制		AUDITING 审核		AUTHORIZE 批准	

1.RATING (额 定 值) :DC 0.3A 36V

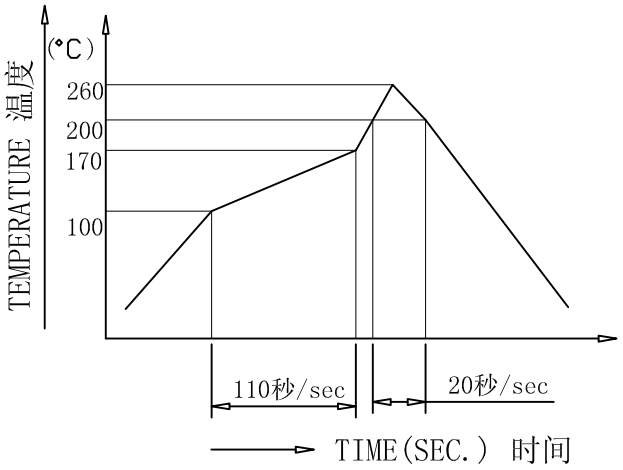
2.ELECTRICAL CHARACTERISTICS(电气性能规格):

	ITEM 项目	TEST CONDITIONS 测试条件	PERFORMANCE 规格
2.1	CONTACT RESISTANCE 接触电阻	MEASURED AT SMALL CURRENT (100 mA OR LESS) 在微小电流（100mA）以下测试。	100mΩMAX 100毫欧以下。
2.2	INSULATION RESISTANCE 绝缘电阻	APPLY A VOLTAGE OF 100V 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. 输入100V DC 电压1分钟，按以下接触方法测试： (1)接触端子之间 (2)胶座与排脚之间	100MΩ MIN 100兆欧以上
2.3	DIELECTRIC STRENGTH 耐电压	AC 500V(50Hz)FOR 1 MIN TRIP CURRENT：0.5mA (1)BETWEEN TERMINALS. (2)BETWEEN INDIVIDUAL TERMINALS AND FRAME. 输入AC 500V(50Hz)电压，1分钟电流为0.5mA,按以下接触方式测试 （1）排脚相互之间 （2）排脚与外壳之间	WITHOUT DAMAGE TO PARTS ARCING OR BREAKDOWN ETC. 没有绝缘破坏等异常。

3.MECHANICAL CHARACTERISTICS (机械性能规格)

	ITEM 项目	TEST CONDITIONS 测试条件	PERFORMANCE 规格
3.1	CONNECTION FORCE 插入力度	MEASUREMENT SHALL BE MADE AFIER CONNECTING AND DISCONNECTING USING STANDARD PLUG GAUGE 3 TIMES 依据标准做3次插拔后测定。	(≤4kg)
	DISCONNECTION FORCE 拔出力度	MEASUREMENT SHALL BE MADE AFIER CONNECTING AND DISCONNECTING USING STANDARD PLUG GAUGE 3 TIMES 依据标准做3次插拔后测定。	(≤0.7kg)
3.2	TERMINAL STRENGTH 端子强度	A STATIC LOAD OF (300gf)SHALL BE APPLIED TO THE TIP OF THE TERMINAL FOR 1 MIN IN ANY DIRECTION 在任意一个方向的先端加上（300gf）力度测试，时间1分钟。	ELECTRICAL CHARACTER ISTICS SHALL BE SATISFIED WITHOUT DAMAGE OR EXCESSIVE LOOSENESS OF ACTUATOR 端子没有裂开、松动等异常，满足机械、电性能要求

	ITEM 项目	TEST CONDITIONS 测试条件	PERFORMANCE 规格
3.3	STANDARD ATMOSPHEIC CONDITIONS 测试标准状态	UNLESS OTHERWISE SPECIFIED.THE STANDARD RANGE OF ATMOSPHERIC CONDITIONS FOR MAKING MEASUREMENTS AND TESTS ARE AS FOLLOWS: (1)AMBIENT TEMPERATURE:5°C TO 35°C (2)RELATIVE HUMIDITY:45% TO 85% (3)AIR PRESSURE :80Kpa 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80Kpa~106Kpa	
4.DURABILITY(耐久性)：			
4.1	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 15 CYCLES/MIN 无负荷： 将结合标准(尽量接近中心点)在1分钟内以10~15次的速度，进行5,000次的插入拔出。	（1）CONTACT RESISTANCE SHALL BE 200mΩ MAX （2）MECHANICAL AND ELECTRICAL CHARACTERISTICS SHALL BE SATISFIED。 （1）接触电阻不能超过200mΩ （2）其它因满足机械、电性能要求
4.2	HEAT TEST 耐热试验	THE SWITCH SHALL BE STORED AT A TEMPERATURE OF 85±2°C FOR 96 HOURS . AND THEN IT SHALL BE SUBJECTED TO THE CONTROLLED RECOVERY CONDITIONS FOR 1 HOUR AFTER WHICH MEASUREMENT SHALL BE MADE. 放置在温度85°C中测试96小时后，再放置正常室温中1小时后测定	THERE SHALL BE NO DAMAGE ON APPEARANCE. MECHANICAL AND ELECTRICAL CHARACTERISTICS SHALL BE SATISFIED. 外观无异常，满足机械、电性能要求
4.3	COLD TEST 耐冷试验	THE SWITCH SHALL BE STORED AT A TEMPERATURE OF -25±3°C FOR 96 HOURS 。AND THEN IT SHALL BE SUBJECTED TO THE CONTROLLED RECOVER CONDITIONS FOR 1 HOURS AFTER WHICH MEASUREMENT SHALL BE MADE。 放置在温度-25±3°C中96小时，再放置常温中1小时后测定。	THERE SHALL BE NO DEFORMATION OR CRACKS IN MOLDED PART。 外观无异常，满足机械、电性能要求
4.4	HOMIDITY TEST 潮湿试验	THE SWITCH SHALL BE STORED AT A TEMPERATURE OF 40±2°C AND A HUMIFITY OF 90% TO 96% FOR 96 HOURS . THEN THE SWITCH SHALL BE MAINTAINED AT STANDARD ATMOSPHERIC CONDITION FOR 1 HR FOR OTHER PROCEDURES BE MADE. 放置40±2°C相对湿度为90~96%环境中96小时后,再放置常温中1小时后测定。	

	ITEM 项目	TEST CONDITIONS 测试条件	PERFORMANCE 规格
4.5	SOLDERING CONDITIONS 焊锡条件	HAND SOLDERING: (1)DEVICE:SOLDER IRON A.350°C MAX . 3SEC MAX B.270°C MAX . 5SEC MAX (2)REFLOW SOLDERING 手焊 (1)工具：烙铁 A.350°C MAX . 3SEC MAX B.270°C MAX . 5SEC MAX (2)回流焊  	THERE SHALL BE NO DEFORMATION OR CRACKS IN MOLDED PART。 外观无异常，满足机械、电性能要求
4.6	SOLDERA-BI LITY TEST 可焊性试验	THE TOP OF THE TERMINALS SHALL BE DIPPED 2mm IN THE SOLDER RATH OF 230±5°C FOR 3±0.5 SECONDS. 端子顶部被浸入锡池中2mm深，温度为230±5°C 时间为3±0.5秒	THE AREA OF SOLDERING SHOULD BE OVER 75% 焊接面积要有75%以上
4.7	RESISTANCE TO SOLDERING HEAT TEST 耐焊性试验	SOLDER BATH METHOD: SOLDER TEMPERATURE 260±5°C IMMERSION TIME 3±0.5 SEC IMMERSION DEPTH UP TO THE SURFACE OF THE BOARD THICKNESS OF PRINTED WIRING BOARD 1.6mm DIMENSIONS OF COMPONENT HOLES IN THE PRINTED WIRING BOARD SHALL BEING ACCORDANCE WITH THOSE SPECIFIED IN THIS SPECIFICATON 焊炉焊接的时候温度控制在260±5°C，浸入时间3±0.5秒，于（基板）厚度为1.6mm下，线路板正常	WITHOUT DEFORMATION OF CASE OR EXCESSIVE LOOSENESS OF TEMINALS ELECTRICAL CHARACTERISTICS SHALL BE SATISFIED. 本体无变形，能满足机械,电器性能
4.7	RESISTANCE SALT SPRAY TEST 耐盐雾性试验	CONNECTOR AT THE CONCENTRATION OF 5 ± 1% OF THE SALT WATER,AMBIENT TEMPERATURE:35±2°C ,SPRAY 12 HOURS AFTER REMOVAL, CLEAN WATER, DRIED MEET. 连接器放置在浓度为5±1%的盐水中，温度为35±2℃的试验箱内，喷雾12小时后取出，用水清洗，晾干满足	IN THE ABSENCE OF METAL CORROSION, COATING REVIEW AREA OF MORE THAN 80 PERCENT 外观 基体金属无锈蚀，镀层覆面占８０％以上：