

ZHE JIANG BEI ER JIA ELECTRONIC Co.,Ltd. 浙江贝尔佳电子有限公司	文件编号	ST-A02
	发布日期	2019/2/15
TEST SPECIFICATION 测试规范	页次	1/3

MODEL NO: ST-A02 series

1. GENERAL (一般事项)

1.1	APPLICATION 适用范围	THIS SOCKET FOR THE POPULAR ELECTRONIC MACHINE 适用于一般电子设备之插座
1.2	STANDARD ATMOSPHERIC 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 : 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°C. (2) 湿度为 45%~85%. (3) 气压为 86Kpa~106Kpa.
1.3	Construction 结构	See the figure 见附图
1.4	OPERATION TEMPERATURE 产品使用温度	Maximum 80°C. 最高 80°C.

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

ITEM 项目	TEST CONDITIONS 测试条件	STANDARDS 标准规格
2.1	CONTACT RESISTANCE 接触电阻	MEASURED AT 5V DC 1 min (100 mA OR LESS) 以电压 5V DC 1分钟, 电流 100mA(最大)状态下测试.
2.2	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 TERMINAL(2) BETWEEN TERMINAL AND TERMINAL 输入 500V DC电压 1分钟,按以下接触方法测试: (1)本体与端子之间.(2)端子与端子之间.
2.3	DIELECTRIC STRENGTH 耐电压	AC 2000V BEING APPLIED BETWEEN ALL TERMINALS AND FRAME FOR 1 MIN. 输入 AC 2000V电压 1分钟,在所有端子与本体间.(或者以客户标准执行)

3. MECHANICAL CHARACTERISTICS (机械性能规格)

ITEM 项目	TEST CONDITIONS 测试条件	STANDARDS 标准规格
3.1	INSERTING AND EXTRACTING FORCE 插拔力度	MEASUREMENT SHALL BE MADE AFTER CONNECTING AND DISCONNECTING USING STANDARD PLUG GAUGE 10 TIMES. 依据标准的 PLUG GAUGE做 10次拔插后测定.

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3.2	PULL FORCE OF TERMINAL 端子推出力	THE SPECIMEN SHALL BE HEATED TO TEMPERATURE OF 70℃ FOR 1 HOUR.THEN A STATIC LOAD OF 60N BE APPLIED TO PINS FOR ONE MINUTE. 加热样品至 70℃维持 1小时,然后施加 60+/-0.6N的力于插销 1分钟.	NO MOVEMENT EXCEEDING 2.5mm 端子移动不可超过 2.5mm (IEC60320-1 section 13.4) (GB17465.1 section 13.4)
4. DURABILITY (耐久性):			
ITEM 项目		TEST CONDITIONS 测试条件	STANDARDS 标准规格
4.1	SOLDERABILITY TEST 可焊性试验	THE TOP OF THE TERMINALS SHALL BE DIPPED 2mm IN THE SOLDER BATH OF 255±5℃ FOR 3~5 SECONDS OR MANUAL SOLDERING AT 380+/-20℃ FOR 3+/-0.5S 端子顶部被浸入锡焊池中 2mm深,温度为 255±5℃, 时间为3~5秒或手焊锡温度为380+/-20℃, 时间为3+/-0.5秒	THE AREA OF SOLDERING. SHOULD BE OVER 90%. 着焊锡面积要有 90%以上.
	RESISTANCE TO SOLDERING HEAT TEST 耐焊性试验	THE TOP OF THE TERMINALS SHALL BE DIPPED 2mm,SOLDER TEMPERATURE 255±5℃ IMMERSION TIME 5±0.5 SEC OR MANUAL SOLDERING AT 380+/-20℃ FOR 3+/-0.5S 端子顶部被浸入锡焊池中 2mm深,温度控制在 255±5℃,过炉时间 5±0.5秒或手焊锡温度为380+/-20℃, 时间为3+/-0.5秒	(1)SATISFY 2.1(2)SATISFY 2.2 (3)SATISFY 2.3 (4)SATISFY 3.1 (5)WITHOUT DEFORMATION OF CASE OR EXCESSIVE LOOSENESS OF TEMINALS ELECTRICAL CHARACTERISTICS SHALL BE SATISFIED. (1)满足 2.1要求. (2)满足 2.2要求. (3)满足 2.3要求. (4)满足 3.1要求. (5)本体和其它结构无变形情况.
4.2	LIFE TEST 寿命试验	WITHOUT LOAD: CONNECTION AND DISCONNECTION SHALL BE MADE WITH THE MATING PLUGS AND JACKS FOR 4,000 CYCLES AT A SPEEDOF 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次的速度 ,进行 4,000次插入、拔出 .	(1) CONTACT RESISTANCESHALL BE 60m Ω MAX. (2) MECHANICAL ANDELECTRICAL CHARACTERISTICS SHALL BE SATISFIED. (1) 接触电阻最大 60mΩ. (2)其它、满足于机械、电气性能 . (IEC60320-1 section 20) (GB17465.1 section 20)

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4.3	RESISTANCE TO HEAT TEST 耐热试验	THE AC SOCKET SHALL BE STORED AT A TEMPERATURE OF $80\pm 2^{\circ}\text{C}$ 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 $80\pm 2^{\circ}\text{C}$ 中 96 小时后 ,再置于正常室温中 1 小时来测定.	(1) SATISFY 2.1 (2) SATISFY 3.1 (3) WITHOUT DEFORMATION OF CASE OR EXCESSIVE LOOSENESS OF TEMINALS ELECTRICAL CHARACTERISTICS SHALL BE SATISFIED. (1)满足 2.1 要求. (2)满足 3.1 要求. (3)本体和其它结构无变形情况.	
4.4	RESISTANCE TO COLD TEST 耐寒性	THE SPECIMEN SHALL BE STORED AT A TEMPERATURE OF $-20\pm 2^{\circ}\text{C}$ FOR 96H.AND THEN THE SPECIMEN SHALL BE SUBJECTED TO THE CONTROLLED RECOVERY CONDITIONS FOR 1H,AFTER WHICH MEASUREMENT SHALL BE MADE. THE MEASUREMENT SHALL BE MADE WITHIN 1 HR AFTER THE RECOVREY PERIOD. 在温度 $-20\pm 2^{\circ}\text{C}$ 放置 96 小时试验后,置于常温常湿中 1 小时内测定之.	(1)CLAUSE 4.1 SHALL BE SATISFIED. 必须满足 4.1 项. (2)CONTACT RESISTANCE:30mΩ MAX. 接触阻抗:最大 30mΩ . (3)DEFORMATION OR CRACKS SHALL NOT BE RECOGNIZED IN MOLDED PART. 塑料部份不能变形或破裂 .	
A	2019/02/15	NEW REVISION	BUDDY	SHIRLEY
REV.	DATE OF MODIFICATION	REVISION CONTENTS	APPROVE	DESIGN