

检测报告  
Test Report

报告编号 A2230293769101ER2

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报告抬头公司名称 伍尔特电子（深圳）有限公司

Company Name  
shown on Report WURTH ELECTRONICS(SHENZHEN)CO.,LTD.

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ROAD, LONGGANG, SHENZHEN

以下测试之样品及样品信息由申请者提供并确认

**The following sample(s) and sample information was/were submitted and identified by/on the behalf of the client**

样品名称 Sample Name SwRSTV

型号 Type 471023262153

样品接收日期 2023.06.16

Sample Received Date Jun. 16, 2023

样品检测日期 2023.06.16-2023.09.14

Testing Period Jun. 16, 2023-Sep. 14, 2023

## 检测要求

## Test Requested

序号 No.	测试项目 Test Item
1	太阳辐射试验 Solar radiation test

检测结果：请参见后续页面。

Test Result(s): Please refer to the following pages.

批准  
Approved by 唐少波日期  
Date 2023.09.15  
Sep. 15, 2023唐少波  
Tang Shao Bo  
授权签字人  
Approved Signatory  
上海华测检测技术有限公司  
Centre Testing International Pinbiao  
Shanghai, China  
检验检测专用章  
Inspection & Testing Services

No.RC1EA6B779

上海市闵行区万芳路 1351 号  
No.1351, Wanfang Road, Minhang District, Shanghai, China.

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本报告于原报告(报告编号 A2230293769101ER1)基础上,将绝缘电阻的单位“mΩ”修改为“MΩ”。本报告替换原报告 A2230293769101ER1,自本报告签发之日起,原报告 A2230293769101ER1 作废。

This testing report changed the unit "mΩ" of insulation resistance into the unit "MΩ" on the original report of No. A2230293769101ER1. This testing report displaces the original one which was invalid since the date of this testing report released.

### 测试样品

#### Tested Sample(s)

样品编号 Sample No.	样品名称 Sample Name	样品型号 Type
A2230293769101001-1~30	SwRSTV	471023262153

### 样品图片

#### Sample Photo(s)



A2230293769101001-1~30

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测试项目：太阳辐射试验

Test Item : Solar radiation test

## 1. 测试设备 Test Equipment

设备名称 Equipment Name	型号 Model	校准有效期 Calibration period
阳光模拟试验箱 Sunlight Simulation Chamber	SUN1000	2023.10.25
直流电阻测试仪 DC Resistance Tester	TH2515	2024.03.12
绝缘电阻仪 Insulation Resistance Tester	TTE20130385	2024.03.12
耐压测试仪 Withstand Voltage Tester	TTE20130202	2024.03.12

## 2. 环境条件 Environmental Conditions

温度：(18~28)℃； 湿度：(25~75)%RH

Temperature: (18~28)℃; Humidity: (25~75)%RH

## 3. 测试标准 Test Standard: IEC60068-2-5:2018 Sa2;

## 4. 测试条件 Test Condition

-a) 辐射能量：1090 W/m<sup>2</sup>(设备总辐射量为 1120W/m<sup>2</sup>，根据最新标准要求把辐射量调整到: 1090 W/m<sup>2</sup>);

Radiation Energy: 1090 W/m<sup>2</sup>(The total radiation is 1120W/m<sup>2</sup>, adjusted to 1090 W/m<sup>2</sup> according to the latest standards.)

-b) 光照：20 小时，温度：40℃±2℃；

Illumination: 20h, Temperature: 40℃±2℃；

-c) 黑暗：4 小时，温度：25±2℃；

Dark: 4h, Temperature: 25±2℃；

-d) 湿度：90%±10%RH；

Humidity: 90%±10%RH；

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-e) 循环数: 25 循环 (600 小时)。

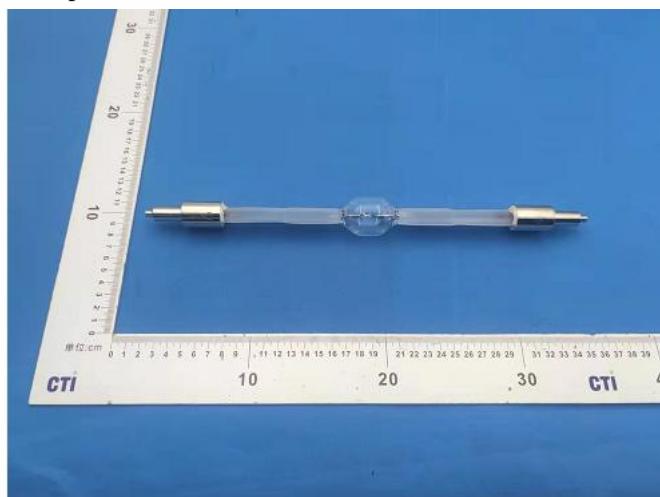
Number of cycles: 25 cycles (600 h).

-g) 设备性能 Equipment performance

光谱范围 Spectral region	Ultra-violet B <sup>a</sup> 紫外线 B <sup>a</sup>	Ultra -violet A 紫外线 A	Visible 可见光	Infra-red 红外线	Total radiation 总辐射
带宽 Bandwidth	300nm-320nm	320nm~400nm	400nm-800nm	800nm-2450nm	300nm~2450nm
辐照度 Irradiance	4.06W/m <sup>2</sup>	70.5W/m <sup>2</sup>	604.2W/m <sup>2</sup>	411.2W/m <sup>2</sup>	1090W/m <sup>2</sup>
占总辐射比例 Proportion of total radiation	0.4%	6.4%	55.4%	37.8%	100%

-h) 灯泡: 卤素灯

Bulb: Halogen lamp



规格 Specification : OSRAM HMI 2500 W/DXS

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### 5. 测试结果 Test Result(s)

测试项目 Test Item	测试方法 Test method	结果 Test Result(s)	结论 Conclusion
金属卤素灯测试 Solar Radiation Test	IEC60068-2-5:2018 Sa2	见结果 See Result	Pass

注 Remark: 合格: 满足要求 Pass :Meet the requirements;

不合格: 不满足要求 Fail: Does not meet the requirements;

/: 不适用于判定 /: Not Apply to the judgment.

### 目视检查 Visual inspection

样品编号 Sample No.	判定要求 Criterion	测试结果 Test Result(s)
A2230293769101001-1~30	1、目视检测样品外观不应有开裂, 变形和气泡现象。 No cracking, deformation, bubble phenomenon should be found on samples' surface(s) by visual inspection. 2、结构件不应松动。 No Loosening should be found on structural parts.	符合 PASS

注 Remark: 合格: 满足要求 Pass :Meet the requirements;

不合格: 不满足要求 Fail: Does not meet the requirements;

/: 不适用于判定 /: Not Apply to the judgment.

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### 接触电阻 Contact Resistance

样品编号 Sample No.	判定要求 Criterion	结果 Result(s)
A2230293769101001-1~30	接触电阻 < 20mΩ Contact Resistance < 20mΩ	符合 PASS

### 绝缘电阻 Insulation Resistance

样品编号 Sample No.	测试要求 Test Condition	判定要求 Criterion	结果 Result(s)
A2230293769101001-1~30	pin-pin DC 500V 60s	绝缘电阻 > 100MΩ Insulation Resistance > 100MΩ	符合 PASS

### 耐电压 Withstand voltage

样品编号 Sample No.	测试要求 Test Condition	判定依据 Criterion	结果 Result(s)
A2230293769101001-1~30	pin-pin AC 1500V 60s	无击穿 No breakdown	符合 PASS
	pin-case AC 3000V 60s	无击穿 No breakdown	符合 PASS

注：判定依据由客户提供。

Note: The criterion was provided by the client.

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### 接触电阻 Contact Resistance

样品编号 Sample No.	接触电阻 A Contact Resistance A		接触电阻 B Contact Resistance B	
	测试前 (mΩ) Before the test	测试后 (mΩ) After the test	测试前 (mΩ) Before the test	测试后 (mΩ) After the test
	A2230293769101001-1	0.806	0.920	0.918
A2230293769101001-2	0.810	1.998	0.886	0.883
A2230293769101001-3	0.993	1.961	1.066	2.401
A2230293769101001-4	1.065	1.746	0.807	1.051
A2230293769101001-5	1.076	1.735	1.763	2.542
A2230293769101001-6	0.744	0.930	1.118	0.875
A2230293769101001-7	1.194	1.231	1.227	1.317
A2230293769101001-8	0.684	1.706	1.055	2.230
A2230293769101001-9	1.006	0.880	0.928	0.981
A2230293769101001-10	0.866	0.644	1.255	1.112
A2230293769101001-11	0.986	0.923	1.306	2.467
A2230293769101001-12	0.678	1.060	1.101	1.571
A2230293769101001-13	0.691	0.859	1.068	1.597
A2230293769101001-14	0.646	1.745	1.000	2.823
A2230293769101001-15	0.746	0.796	1.135	2.019
A2230293769101001-16	0.793	1.490	1.078	1.414
A2230293769101001-17	0.678	1.862	0.648	1.297
A2230293769101001-18	1.164	1.683	0.663	1.303
A2230293769101001-19	1.195	0.878	1.043	1.386
A2230293769101001-20	0.726	1.476	1.249	1.774
A2230293769101001-21	0.844	0.854	0.834	1.142
A2230293769101001-22	1.127	0.946	0.653	1.749
A2230293769101001-23	0.781	1.138	0.849	1.976
A2230293769101001-24	0.835	2.576	1.007	0.893
A2230293769101001-25	0.590	2.420	0.497	1.163
A2230293769101001-26	1.072	1.598	0.665	0.887
A2230293769101001-27	0.803	0.709	0.784	1.240
A2230293769101001-28	0.510	0.871	0.739	0.955
A2230293769101001-29	0.652	1.070	0.634	2.044
A2230293769101001-30	0.651	1.349	0.718	1.238

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**绝缘电阻 Insulation Resistance**

样品编号 Sample No.	绝缘电阻 A Insulation Resistance A		绝缘电阻 B Insulation Resistance B	
	测试前 (MΩ) Before the test	测试后 (MΩ) After the test	测试前 (MΩ) Before the test	测试后 (MΩ) After the test
	A2230293769101001-1	≥5000	≥5000	≥5000
A2230293769101001-2	≥5000	≥5000	≥5000	≥5000
A2230293769101001-3	≥5000	≥5000	≥5000	≥5000
A2230293769101001-4	≥5000	≥5000	≥5000	≥5000
A2230293769101001-5	≥5000	≥5000	≥5000	≥5000
A2230293769101001-6	≥5000	≥5000	≥5000	≥5000
A2230293769101001-7	≥5000	≥5000	≥5000	≥5000
A2230293769101001-8	≥5000	≥5000	≥5000	≥5000
A2230293769101001-9	≥5000	≥5000	≥5000	≥5000
A2230293769101001-10	≥5000	≥5000	≥5000	≥5000
A2230293769101001-11	≥5000	≥5000	≥5000	≥5000
A2230293769101001-12	≥5000	≥5000	≥5000	≥5000
A2230293769101001-13	≥5000	≥5000	≥5000	≥5000
A2230293769101001-14	≥5000	≥5000	≥5000	≥5000
A2230293769101001-15	≥5000	≥5000	≥5000	≥5000
A2230293769101001-16	≥5000	≥5000	≥5000	≥5000
A2230293769101001-17	≥5000	≥5000	≥5000	≥5000
A2230293769101001-18	≥5000	≥5000	≥5000	≥5000
A2230293769101001-19	≥5000	≥5000	≥5000	≥5000
A2230293769101001-20	≥5000	≥5000	≥5000	≥5000
A2230293769101001-21	≥5000	≥5000	≥5000	≥5000
A2230293769101001-22	≥5000	≥5000	≥5000	≥5000
A2230293769101001-23	≥5000	≥5000	≥5000	≥5000
A2230293769101001-24	≥5000	≥5000	≥5000	≥5000
A2230293769101001-25	≥5000	≥5000	≥5000	≥5000
A2230293769101001-26	≥5000	≥5000	≥5000	≥5000
A2230293769101001-27	≥5000	≥5000	≥5000	≥5000
A2230293769101001-28	≥5000	≥5000	≥5000	≥5000
A2230293769101001-29	≥5000	≥5000	≥5000	≥5000
A2230293769101001-30	≥5000	≥5000	≥5000	≥5000



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**耐电压 Withstand voltage**

样品编号 Sample No. 测试前 (MΩ) Before the test	漏电流 (μA) Leakage Current pin-pin(a)	漏电流 (μA) Leakage Current pin-pin(b)	漏电流 (μA) Leakage Current pin-case(a)	漏电流 (μA) Leakage Current pin-case(b)
A2230293769101001-1	22	23	48	40
A2230293769101001-2	20	26	51	41
A2230293769101001-3	31	31	44	48
A2230293769101001-4	29	2	37	52
A2230293769101001-5	27	29	38	52
A2230293769101001-6	28	30	52	39
A2230293769101001-7	32	20	39	53
A2230293769101001-8	24	31	51	43
A2230293769101001-9	20	29	51	46
A2230293769101001-10	24	28	40	38
A2230293769101001-11	31	21	38	47
A2230293769101001-12	28	28	50	40
A2230293769101001-13	22	25	40	51
A2230293769101001-14	30	20	40	38
A2230293769101001-15	22	29	37	43
A2230293769101001-16	28	30	39	37
A2230293769101001-17	29	17	41	42
A2230293769101001-18	32	20	49	38
A2230293769101001-19	28	22	45	41
A2230293769101001-20	29	30	38	48
A2230293769101001-21	20	22	40	40
A2230293769101001-22	28	19	48	50
A2230293769101001-23	17	28	50	44
A2230293769101001-24	17	16	40	50
A2230293769101001-25	28	29	53	40
A2230293769101001-26	26	25	46	40
A2230293769101001-27	29	23	38	41
A2230293769101001-28	28	24	38	46
A2230293769101001-29	27	17	44	45
A2230293769101001-30	29	24	44	53

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样品编号 Sample No. 测试后 (MΩ) After the test	漏电流 (μA) Leakage Current pin-pin(a)	漏电流 (μA) Leakage Current pin-pin(b)	漏电流 (μA) Leakage Current pin-case(a)	漏电流 (μA) Leakage Current pin-case(b)
A2230293769101001-1	36	33	60	72
A2230293769101001-2	31	35	59	57
A2230293769101001-3	26	26	58	58
A2230293769101001-4	25	25	68	70
A2230293769101001-5	25	38	57	53
A2230293769101001-6	27	40	62	69
A2230293769101001-7	25	29	61	62
A2230293769101001-8	30	36	67	63
A2230293769101001-9	39	27	66	70
A2230293769101001-10	32	31	66	60
A2230293769101001-11	33	38	72	64
A2230293769101001-12	38	29	68	58
A2230293769101001-13	35	26	70	68
A2230293769101001-14	30	38	69	68
A2230293769101001-15	36	35	63	68
A2230293769101001-16	35	28	71	59
A2230293769101001-17	43	40	73	60
A2230293769101001-18	32	34	66	70
A2230293769101001-19	37	27	70	64
A2230293769101001-20	34	33	72	56
A2230293769101001-21	27	37	60	65
A2230293769101001-22	37	29	60	72
A2230293769101001-23	39	38	65	65
A2230293769101001-24	36	36	62	67
A2230293769101001-25	30	34	70	66
A2230293769101001-26	39	37	61	71
A2230293769101001-27	36	37	66	70
A2230293769101001-28	33	30	69	67
A2230293769101001-29	41	32	71	70
A2230293769101001-30	30	26	72	71

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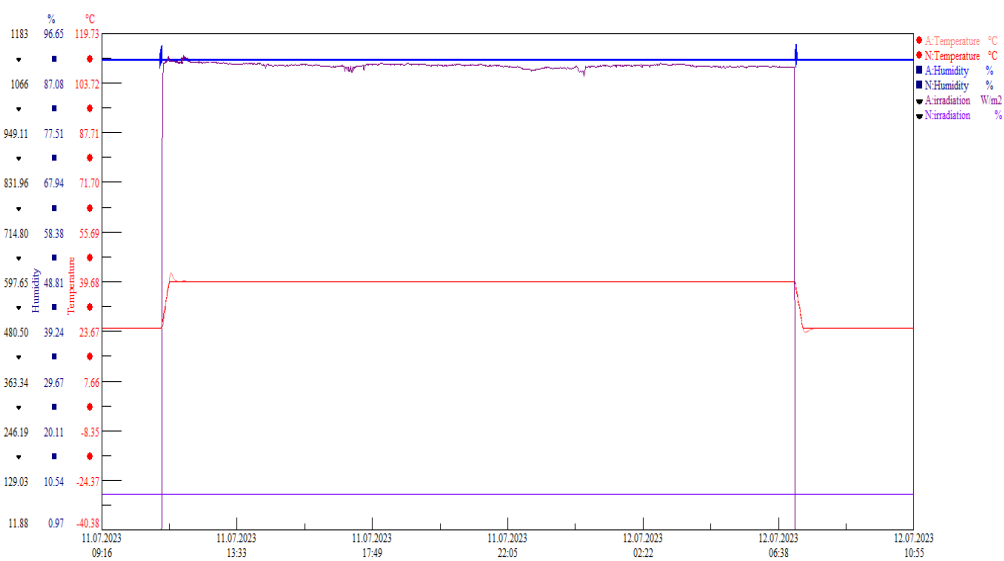
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## 测试曲线

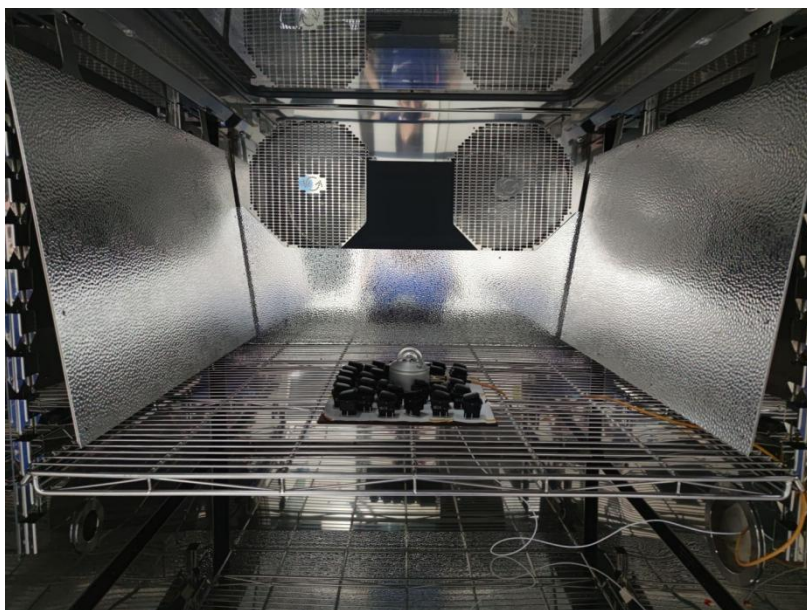
### Test Curve



典型测试曲线 Typical Test Curve

## 测试图片

### Test Photo(s)



试验设置图片 Test set-up photo

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接触电阻 Contact Resistance



绝缘电阻 Insulation Resistance

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耐电压 Withstand voltage (pin-pin)



耐电压 Withstand voltage (pin-case)

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## 测试后样品图片

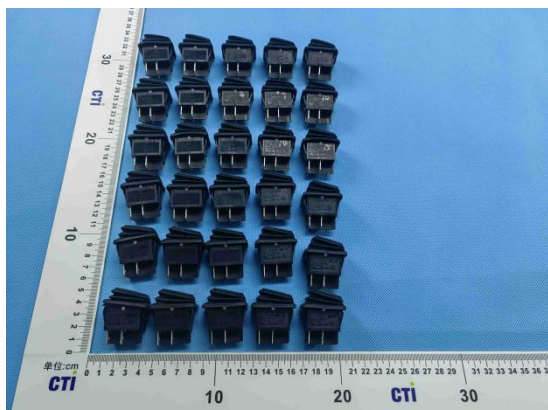
### Sample Photo(s) after the test



A2230293769101001-1~15



A2230293769101001-16~30



A2230293769101001-1~30



备注：本报告中的数据结果供科研、教学、企业内部质量控制、企业产品研发等目的用。

Remark: The testing data and result(s) in this report is(are) just for scientific research, education, internal quality control and product development etc.

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声明:

Statement:

1. 检测报告无批准人签字、“专用章”及报告骑缝章无效;

This report is considered invalid without approved signature, special seal and the seal on the perforation;

2. 报告抬头公司名称及地址、样品及样品信息由申请者提供, 申请者应对其真实性负责, CTI 未核实其真实性;

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3. 本报告检测结果仅对受测样品负责;

The result(s) shown in this report refer(s) only to the sample(s) tested;

4. 未经 CTI 书面同意, 不得部分复制本报告。

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In case of any discrepancy between the English version and Chinese version of the testing reports(if generated), the Chinese version shall prevail.

\*\*\* 报告结束 \*\*\*

\*\*\* End of Report \*\*\*