

检测报告 Test Report

报告编号: A220004445310100001ER4
Report No. A220004445310100001ER4

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委托单位: 伍尔特电子(深圳)有限公司
Customer: Würth Electronics(shenzhen)co.,Ltd
地址: 深圳市龙岗区坪地埔仔路22号创世纪种业大厦1-3层
Address: 1-3rd floor, Chuangshiji Building, No#22 Pingdi Puzai Road, Longgang, Shenzhen

样品名称 Sample Name : / (详见下页样品信息表 Please refer to the sample information table on the next page)
样品零件号 Part No. : / (详见下页样品信息表 Please refer to the sample information table on the next page)
材质 Material : / (详见下页样品信息表 Please refer to the sample information table on the next page)
生产日期 Production Date : /
车型 Model : /
买家 Buyer : /
供应商 Supplier : /
样品状态 State : 成品 Finished products

以上测试之样品及信息是由申请者提供并确认

The above sample(s) was/were submitted and identified on behalf of the client as:

客户送样数量 Quantity of sample : 30pcs
supplied by client
样品接收日期 Sample Received Date : 2020.03.11
样品检测日期 Testing Period : 2020.03.17~2020.04.14
检测项目 Test Item : 请参见下页 Please refer to the following pages
检测依据 Test Method : 请参见下页 Please refer to the following pages
检测结果 Test Result : 请参见下页 Please refer to the following pages

签发
Approved by

Bruce Jin

日期
Date

2020.05.08

Bruce Jin
Technical Manager

No. RC22C63B77

上海华测品正检测技术有限公司
Centre Testing International Pinzheng (Shanghai) Co., Ltd.

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样品信息表 Sample information table

序号 No.	样品名称 Sample Name	零件号 Part No.	送样数量 Quantity of sample supplied by client	样品编号 Sample No.
1	RSTV series	47101726814x	30	A2200044453101-A01~A30

*** 待续 To be continued ***

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结果汇总 Summary of results

序号 No.	检测项目 Test Item	检测方法 Test Method	样品 Sample	检测结果 Test Results	结论 Conclusion
1	太阳辐射 Solar radiation	IEC 60068-2-5-2018:Sa2 和 客户要求 IEC 60068-2-5-2018:Sa2 and client's requirements	RSTV series	见下文 See below	合格 Pass

备注:

合格: 符合要求

不合格: 不符合要求

N/A: 不应用于判定或不适用

Note:

Pass: Meet the requirements

Fail: Does not meet the requirements

N/A: Not apply to the judgment or Not applicable

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1. 检测项目 Test Item: 太阳辐射 Solar radiation

(1) 检测环境条件 Environmental Conditions: (23±2) °C, (50±5) %RH

(2) 检测设备 Test Equipment:

序号 No.	名称 Name	品牌 Brand	型号 Model	设备编号 Equipment No.	校准有效期 Valid Date to
1	步入式阳光模拟试验箱 Walk-in sunlight simulation test box	上海瑞起实业 ATLAS	GRO	TTE20189699	2020.08.28
2	交直流绝缘耐压仪 AC/DC withstand voltage and insulation tester	菊水 KIKUSUI	TOS9301	ZE001612	2020.10.22
3	LCR METER	日置 HIOKI	IM 3536	190808763	2021.01.17

(3) 阳光模拟箱设备参数 Equipment parameters of sunlight simulation box:

光谱范围 Spectral range	紫外线 B ^a Ultraviolet B ^a	紫外线 A Ultraviolet A	可见光 Visible	红外线 Infrared-red	总辐射 Total radiation
带宽 bandwidth	280nm~320nm	320nm~400nm	400nm~780nm	780nm~3000nm	280nm~3000nm
辐照度 radioactivity	5 W/m ²	63 W/m ²	560 W/m ²	492 W/m ²	1120 W/m ²
占总辐照比例 Percentage of total irradiation	0.36%	6.64%	53%	40%	100%

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(4) 辐射源信息 Radiation source information:

- 1) 辐射源 Radiation source: 卤素灯 Halogen lamp
- 2) 规格 Specification: OSRAM HMI 2500W/DXS

(5) 检测方法 Test Method: 依据标准 IEC 60068-2-5-2018:Sa2 和客户要求

Refer to IEC 60068-2-5-2018:Sa2 and client's requirement

(6) 样品描述 Sample description: 黑色成品/Black finished products

(7) 检测条件 Test Conditions:

1) 太阳辐射\Solar radiation:

- ① 辐射能量:1090W/m²(设备总辐射量为:1120W/m², 根据最新标准要求把辐射量调整到: 1090 W/m²)

Radiation Energy: 1090 W/m²(The total radiation is 1120W/m², adjusted to 1090 W/m² according to the latest standards.)

- ② 温度: 40 ± 2 °C

temperature: 40 ± 2 °C

- ③ 湿度: 90 ±10%RH

Humidity: 90 ±10%RH

- ④ 光照: 20h

Illumination: 20h

- ⑤ 黑暗: 4h 温度: 25°C

Darkness: 4h Temperature: 25°C

- ⑥ 暴露时间: 25 循环

Exposure time: 25 cycles

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2) 外观检查/Visual inspection

目视检查样品外观

Visual inspection of sample appearance

3) 耐电压/Withstand voltage:

①测试位置: Pin-Pin \ Pin-case

Test location: Pin-Pin \ Pin-case

②测试电压: 1500V AC (Pin-Pin) 3000V AC (Pin-case)

Test voltage: 1500V AC (Pin-Pin) 3000V AC (Pin-case)

③测试时间: 60s

Test time: 60s

4) 绝缘电阻/Insulation resistance:

①测试位置: Pin-Pin

Test location: Pin-Pin

②测试电压: 500V DC

测试电压: 500V DC

③测试时间: 60s

Test time: 60s

5) 接触电阻/Contact resistance:

①试验前后测量接触电阻

Measuring contact resistance before and after the test

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6) 要求: ①外观: 外观不应有开裂、变形、和气泡现象; 结构件不应松动

Appearance: there should be no cracking, deformation, and bubbles in the appearance;
the structural parts should not be loose

②耐电压: 无击穿

Withstand voltage: no breakdown

③绝缘电阻: $>100M\Omega$

Insulation resistance: $> 100M\Omega$

④接触电阻: $< 20m\Omega$

Contact resistance: $<20m\Omega$

(8) 检测数量 Test Quantity: 30pcs

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(9) 检测结果 Test Results:

外观检测结果 Appearance test results:

样品编号 Sample No.	测试结果 Test result		结论 Evaluation
	试验前 Before the test	试验后 After the test	
A2200044453101-A01~A 2200044453101-A30	外观无开裂、无变形和气泡现象；结构件无松动 No cracking, deformation and air bubbles in the appearance; no loosening of structural parts	外观无开裂、无变形和气泡现象；结构件无松动 No cracking, deformation and air bubbles in the appearance; no loosening of structural parts	合格 Pass

耐电压测试结果 Withstand voltage test results:

样品编号 Sample No.	测试结果 Test result		结论 Evaluation
	试验前 Before the test	试验后 After the test	
A2200044453101-A01~A2 200044453101-A30	无击穿 No breakdown	无击穿 No breakdown	合格 Pass

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绝缘电阻测试结果 Insulation resistance test results:

样品编号 Sample No.	测试结果 Test result		结论 Evaluation
	试验前 Before the test	试验后 After the test	
A2200044453101-A01~A2 200044453101-A30	>100MΩ	>100MΩ	合格 Pass

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接触电阻测试结果 Contact resistance test results:

样品编号 Sample No.	测试结果 (mΩ)		结论 Evaluation
	Test result		
	试验前 Before the test	试验后 After the test	
A2200044453101-A01	1.12	0.15	合格 Pass
A2200044453101-A02	0.85	0.90	合格 Pass
A2200044453101-A03	1.05	1.07	合格 Pass
A2200044453101-A04	1.28	1.31	合格 Pass
A2200044453101-A05	1.24	1.28	合格 Pass
A2200044453101-A06	1.06	1.11	合格 Pass
A2200044453101-A07	0.86	1.01	合格 Pass
A2200044453101-A08	0.94	0.99	合格 Pass
A2200044453101-A09	1.15	1.23	合格 Pass

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样品编号 Sample No.	测试结果 (mΩ)		结论 Evaluation
	Test result		
	试验前 Before the test	试验后 After the test	
A2200044453101-A10	1.12	1.41	合格 Pass
A2200044453101-A11	1.13	1.21	合格 Pass
A2200044453101-A12	0.95	1.15	合格 Pass
A2200044453101-A13	1.09	1.24	合格 Pass
A2200044453101-A14	1.17	1.25	合格 Pass
A2200044453101-A15	0.98	1.13	合格 Pass
A2200044453101-A16	1.10	1.26	合格 Pass
A2200044453101-A17	0.88	1.03	合格 Pass
A2200044453101-A18	1.21	1.25	合格 Pass

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样品编号 Sample No.	测试结果 (mΩ) Test result		结论 Evaluation
	试验前 Before the test	试验后 After the test	
A2200044453101-A19	1.05	1.18	合格 Pass
A2200044453101-A20	1.17	1.21	合格 Pass
A2200044453101-A21	0.93	1.06	合格 Pass
A2200044453101-A22	1.14	1.23	合格 Pass
A2200044453101-A23	0.99	1.20	合格 Pass
A2200044453101-A24	1.12	1.16	合格 Pass
A2200044453101-A25	1.34	1.41	合格 Pass
A2200044453101-A26	1.06	1.23	合格 Pass
A2200044453101-A27	1.04	1.08	合格 Pass

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样品编号 Sample No.	测试结果 (mΩ) Test result		结论 Evaluation
	试验前 Before the test	试验后 After the test	
	A2200044453101-A28	1.23	1.21
A2200044453101-A29	0.95	1.16	合格 Pass
A2200044453101-A30	0.95	1.03	合格 Pass

备注: 应客户要求, 外观检查、耐电压、绝缘电阻、接触电阻测试方法和评价要求由客户指定

Note: At client's requirement, According to customer requirements, the appearance inspection, withstand voltage, insulation resistance, contact resistance test methods and evaluation requirements are specified by client

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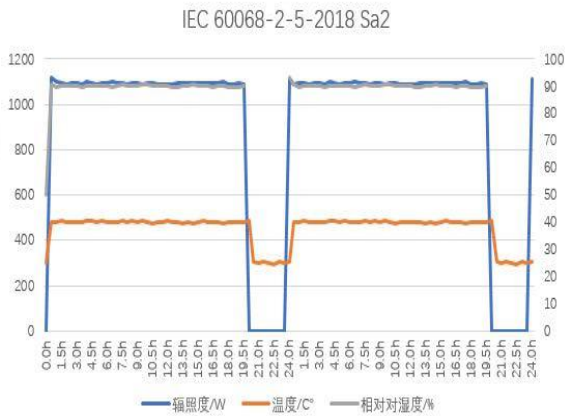
检测样品照片 Photo of the test sample



A2200044453101-A01~A30 检测前
A2200044453101-A01 ~ A30 Before testing



太阳辐射试验中
Solar radiation test



太阳辐射试验曲线
Solar radiation test curve



外观检查
Visual inspection

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绝缘电阻测试中

Insulation resistance test



耐电压试验中(pin-pin)

Withstand voltage test (pin-pin)

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接触电阻试验中
Contact resistance test



A2200044453101-A01~A30 检测后
A2200044453101-A01 ~ A30 After testing



辐射源照片

Radiation source photos

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2. 本报告替换报告 A220004445310100001ER4。A220004445310100001R3 作废。
3. 此次更改内容为修改译文表达方式、测试条件以及照片。

- Note: 1. Indicates the item(s)/method(s) is (are) not in CMA accreditation scope, the testing date and result is just for scientific research, education, internal quality control and product development etc.
2. This report replaced report A220004445310100001ER4。A220004445310100001ER3 is terminated.
3. This change is to modify the translation expression, test conditions and photos.

*** 报告结束 End of Report ***

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