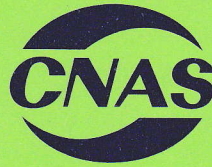




广东产品质量监督检验研究院 测量工程部

Measuring and Engineering Department of Guangdong Testing
Institute of Product Quality Supervision



中国认可
国际互认
校准
CALIBRATION
CNAS L1746

校准证书 Calibration Certificate

证书编号
Certificate No. ZS1900529G 第 1 页, 共 5 页
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委托方
Client Panasonic Manufacturing Malaysia Berhad

地址
Address No. 3, Jalan Sesiku 15/2, Shah Alam Industrial Site, 40200
Selangor, Malaysia.

样品名称
Description Tracking Test Chamber

型号规格
Model/Type TTC-1

制造厂
Manufacturer Lisun Electronics Inc

编号
Serial No. SOLS20190026 - A2

接收日期
Rcvd Date 2019-01-26 校准日期
Calibration Date 2019-01-26

签发
Approved by 杨学

职务
Job 副主任

审核
Checked by 冼铁良

校准
Calibrated by 黄子科

发证单位(专用章)
Issued by (stamp)



校准结果

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Results of Calibration

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1. 外观和工作正常性检查: 符合

Appearance and normality inspection: Normal

2. 交流试验电压示值误差:

AC test voltage indication tolerance

示值	实际值	误差	允差	结论
Indicated value	Measured value	Tolerance	Allow tolerance	Conclusion
(V)	(V)	(%)	(%)	(Pass/Fail)
100	100.3	-0.3	±1.5	Pass
200	200.4	-0.2	±1.5	Pass
275	275.4	-0.1	±1.5	Pass
350	350.6	-0.2	±1.5	Pass
425	425.5	-0.1	±1.5	Pass
500	500.6	-0.1	±1.5	Pass
600	599.6	0.1	±1.5	Pass

3. 交流试验电流示值误差:

AC test current indication tolerance

示值	实际值	误差	允差	结论
Indicated value	Measured value	Tolerance	Allow tolerance	Conclusion
(A)	(A)	(%)	(%)	(Pass/Fail)
0.200	0.197	1.5	±3	Pass
0.400	0.395	1.3	±3	Pass
0.500	0.493	1.4	±3	Pass
0.600	0.592	1.4	±3	Pass
0.800	0.789	1.4	±3	Pass
1.000	0.987	1.3	±3	Pass



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4. 其它性能测试:

Other performance tests:

序号	项目	技术要求	实测结果	结论 (Pass/Fail)
Serial number	Item	Technology requirement	Measured result	Conclusion
1	左电极截面尺寸 Left electrode cross section size	$(2 \times 5) \pm 0.1 \text{mm}$	$(2.02 \times 5.02) \text{mm}$	Pass
2	右电极截面尺寸 Right electrode cross section size	$(2 \times 5) \pm 0.1 \text{mm}$	$(2.02 \times 5.04) \text{mm}$	Pass
3	左电极斜度 Left electrode slope	30°	$30^\circ 02'$	Pass
4	右电极斜度 Right electrode slope	30°	$30^\circ 02'$	Pass
5	电极长度 Electrode length	$\geq 12 \text{mm}$	12.64mm	Pass
6	两电极间距离 Distance between two electrodes	$(4 \pm 0.05) \text{mm}$	4.02mm	Pass
7	滴液时间间隔 Drip time interval	$(30 \pm 5) \text{s}$	30.11s	Pass
8	左电极对试样表面作用力 The force that the left electrode on the sample surface	$(1.0 \pm 0.05) \text{N}$	1.02N	Pass
9	右电极对试样表面作用力 The force that the right electrode on the sample surface	$(1.0 \pm 0.05) \text{N}$	1.02N	Pass
10	超限报警电流 Overrun alarm current	0.5A	0.504A	Pass
11	超限断流动作时间 Overrun cut-off action time	2s	2.04s	Pass

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5. 最大输出电压降测试:

Maximum output voltage drop test:

最大输出电压	试验电流变化范围	实测最大压降	技术要求	结论
Maximum output voltage	Test current variation range	Measured maximum voltage drop	Technology requirement	Conclusion
(V)	(A)	(%)	(%)	(Pass/Fail)
600	(0~1)±0.1	6.5	≤10	Pass

结论: 所校准项目符合技术要求

Conclusion: The results of above item accord with the specification

测量结果的不确定度:

Uncertainty of the measuring results

1. 依据: JJF1059.1-2012测量不确定度评定与表示

Accordings as JJF1059.1-2012 Evaluation and Expression of Uncertainty in Measurement

2. 测量结果的扩展不确定度:

Expanded uncertainty of the measuring results

作用力/Force $U=0.01N$ 角度/Angle: $U=5'$ 时间/Time: $U=0.10s$ 尺寸/dimension $U=0.02mm$ ($k=2$)

交流电压/AC voltage $U_{rel}=0.3\%$ 交流电流/AC current $U_{rel}=0.6\%$ ($k=2$)

监查
程用

说 明

1. 本证书数据均可溯源于国家基准和国际单位制 (SI)。

All data issued are traceable to national measurement standards and the international system of units (SI).

2. 本次校准的技术依据:

Reference documents for the calibration:

参照: JJF1087(浙)-2012 《漏电起痕试验仪校准规范》

Reference: JJF1087 (Zhe)-2012 《Calibration specification for leakage tracking test》

3. 本次校准检测所使用的主要计量标准器具:

Major calibration tools used in this calibration/inspection:

设备名称/型号 Name/Model of Equipment	编号 Serial No.	制造商 Manufacturer	标准器有效期 Due Date
数字万用表/189 Digital multimeter	89140091	FLUKE	2019.06.22
电子秒表/PC396 Electronic stopwatch	XZB3063	深圳惠波 Shenzhenhui	2019.04.05
测力计/CL-A 3N Force gauge	A457	黑龙江 Heilongjian	2019.06.05
数显卡尺/(0-150)mm Digital caliper	03122128	日本 Japan	2019.09.01
电子天平/XT6200C Electronic balance	85248	Precisa	2019.07.22
倾角仪 Clinometer	9236	深圳 Shenzhen	2019.09.25

4. 校准/检测地点、环境条件:

Place and environmental conditions of the calibration/inspection:

地点: 现场

温度: 22℃

湿度: 60%RH

Place: On site

Temperature: 22℃

RH: 60%RH

5. 建议下次校准日期为:

Suggested date for the next calibration