

校准证书

CALIBRATION CERTIFICATE

证书编号:

Certificate No.



J202605195325A-0006-G1

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of

委托方

Client

UNIAO BRASILEIRA DE EDUCACAO E ASSISTENCIA -
UBEA/PUCRS

联络信息

Contact Inf.

AV.IPIRANGA 6681, PREDIO 1, SALA 107, CEP 90619-900
PORTO ALEGRE/RS - BRASIL

仪器名称

Description

信号线耦合 (Signal line coupling)

型号/规格

Model/Type

CDN-T8

制造厂

Manufacturer

LISUN GROUP

出厂编号

Serial No.

0260501

管理号

Asset No.

接收日期

Receipt Date

2026年06月18日

校准日期

Cal. Date

2026年06月18日

Y M D

发布日期

Issued Date

2026年07月13日

Y M D

批准

Approved by

李文兴

李文兴

审核

Inspected by

何刚

何刚

校准

Calibrated by

施晓峰

施晓峰

证书专用章

(Stamp)

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扫一扫验真伪

校验码: 403786

校准说明 DIRECTIONS OF CALIBRATION

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- 1.本实验室的质量管理体系符合ISO/IEC 17025:2017标准的要求,校准结果均可溯源至国际单位制(SI)单位。
(The quality system is in accordance with ISO/IEC 17025:2017,the calibration results are traceable to the International System of Units (SI).)
- 2.本结果仅对本次校准样品有效。未经实验室批准,不得部分复制。如有疑问请在15个工作日内反馈。
(The result is only valid for the calibrated sample.The certificate shall not be reproduced except in full,without the written approval of our laboratory .please feedback to us within 15 days if you have any question.)
- 3.本证书编号具有唯一性,后缀若带有“-Gx”的证书为替换证书,自发出后原证书即刻作废,修改后的证书以客户端内容为准。(Each certificate has a unique number. The suffix of "-Gx" will be added to the number as a replacement of the old version. The original certificate will be officially invalid once the new certificate number is issued.The modified certificate shall be based on the client content.)
- 4.证书中最大允许误差、判定结果仅供参考,其中“P”代表“合格”,“F”代表“不合格”,“N/A”代表“不适用”。使用人员应结合实际测量需求,评估测量不确定度对符合性评定的影响。(MPE & judgement result in the datasheet is only for reference , "P" is "Pass", "F" is "Fail" and "N/A" is "Not Applicable".Whereas users should evaluate the effects of MU of calibration results on conformance assessment by actual measurement.)
- 5.该仪器的溯源日期为本证书的“校准日期”。(The traceability date of this instrument is the calibration date on this certificate.)
- 6.校准地点、环境条件(Place and environmental conditions of the calibration):
地点: 客户二楼实验室
Place
温度: (22.2~22.6)℃ 相对湿度: (50.0~50.3) %
Temperature Relative Humidity
- 7.建议复校时间间隔: 1年,送校单位也可按实际使用情况自主决定。
Suggested calibration interval is 1 year or it can be altered depending on the actual usage of the user.
- 8.本次校准的技术依据及CNAS认可范围,超出范围的内容未被认可。详细认可范围请查看CNAS网站证书附件。(Reference document and accredited scope by CNAS for calibration, beyond which isn't accredited. Please see the attachment of certificate on CNAS website for details.)

JJF 2079-2023 射频传导抗扰度耦合/去耦网络校准规范 (C. S. for Coupling/Decoupling Networks of Conducted Disturbances Induced by Radio-Frequency Fields Testing) 共模阻抗: 40~300)Ω(9kHz~1000MHz) 耦合系数: (-10~10)dB,(9kHz~1000MHz) 去耦衰减: (0~110)dB,(9kHz~1000MHz) 插入损耗: (0~30)dB,(9kHz~1000MHz)

CISPR 16-1-2:2017无线电骚扰和抗扰度测量仪器和方法规范 第1-2部分:无线电骚扰和抗扰度测量设备 传导骚扰测量的耦合装置(耦合去耦网络准)Specification for radio disturbance and immunity measuring apparatus and methods - Part 1-2: Radio disturbance and immunity measuring apparatus - Coupling devices for conducted disturbance measurement (Coupling/decoupling network) 共模阻抗: (40~300)Ω(9kHz~1000MHz) 耦合系数: (-10~10)dB(9kHz~1000MHz) 分压系数: (0~30)dB(9kHz~1000MHz) 插入损耗: 0~30)dB,(9kHz~1000MHz) 去耦衰减: (0~110)dB,(9kHz~1000MHz)

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9. 本次校准使用的主要测量标准(Main Standards of Measurement Used in the Calibration.):

名称	编 号	证书号/有效期	溯源机构	技术特征
Description	Serial No.	Certificate No./ Due Date	Traceability Institute	Technique Character
数字温湿度计 Digital temperature and humidity meter	831907	J202507301116-11- 0002 2026-11-04	广电计量检测 (无锡)有限公 司	温度Temperature:MPE:±2.0 ℃, 湿度Humidity:MPE:± 5%RH ~±7%RH
网络分析仪 network analyzer	MY49811665	J202509181055-08- 0001 2027-01-03	广电计量检测集 团股份有限公司	频率5Hz~3GHz
网分校准件(6个)	MY53202813	J202601201864- 0032 2027-02-02	广电计量检测集 团股份有限公司	(10~9000)MHz U=0.020(k=2)

10. 计量溯源性声明(Measurement traceability declaration.):

数字温湿度计/Digital temperature and humidity meter(831907)→冷镜式精密露点仪/Cold mirror type precision dew point meter(004I20)→精密露点仪标准装置(中国计量科学研究院/NIM);
网络分析仪/network analyzer (MY49811665)→频谱(MY63460140)→微波信号源/Signal Generator(MY59140096)→信号发生器检定装置Signal generator verification device(中国计量科学研究院 NIM);
网分校准件(6个)(MY53202813)→N型校准件(MY61410382)→网络分析仪/network analyzer(US61255200)→S 参数标准装置S-parameter standard device(中国计量科学研究院NIM);

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1、外观以及一般性检查: 正常

In view of External and Generality check : Pass

2、电压分压系数(Voltage Division Factor):

频率 Frequency (MHz)	实测值 Measured (dB)	不确定度 U (k=2) (dB)
0.15	9.54	0.28
0.3	9.56	0.28
0.5	9.59	0.28
0.7	9.62	0.28
1	9.67	0.28
2	9.83	0.28
3	9.97	0.28
5	10.10	0.28
7	10.10	0.28
10	10.04	0.28
13	9.99	0.28
15	9.96	0.28
20	9.88	0.28
25	9.85	0.28
30	9.88	0.28
50	10.58	0.28
80	11.23	0.28
100	10.77	0.28
120	10.67	0.28
150	11.07	0.28
200	11.19	0.28
230	11.59	0.28

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3、EUT端共模阻抗(EUT Port Common-Mode Impedance):

频率 Frequency (MHz)	标称值 Nominal (Ω)	实测值 Measured (Ω)	误差 Error (Ω)	不确定度 $U_{rel}(k=2)$ (%)	允许值 Limit (Ω)	结 论 Conclusion (Pass/Fail)
0.15	150	158.7	-8.7	1.5	130.0 ~ 170.0	P
0.3	150	158.1	-8.1	1.5	130.0 ~ 170.0	P
0.5	150	157.5	-7.5	1.5	130.0 ~ 170.0	P
0.7	150	156.9	-6.9	1.5	130.0 ~ 170.0	P
1	150	156.4	-6.4	1.5	130.0 ~ 170.0	P
2	150	155.5	-5.5	1.5	130.0 ~ 170.0	P
3	150	155.1	-5.1	1.5	130.0 ~ 170.0	P
5	150	154.8	-4.8	1.5	130.0 ~ 170.0	P
7	150	154.3	-4.3	1.5	130.0 ~ 170.0	P
10	150	153.6	-3.6	2.5	130.0 ~ 170.0	P
13	150	152.7	-2.7	2.5	130.0 ~ 170.0	P
15	150	152.1	-2.1	2.5	130.0 ~ 170.0	P
20	150	149.8	0.2	2.5	130.0 ~ 170.0	P
25	150	146.0	4.0	2.5	130.0 ~ 170.0	P
30	150	142.3	7.7	2.5	105.0 ~ 210.0	P
50	150	122.1	27.9	2.5	105.0 ~ 210.0	P
80	150	119.7	30.3	2.5	90.0 ~ 210.0	P
100	150	140.3	9.7	2.5	90.0 ~ 210.0	P
120	150	145.5	4.5	2.5	90.0 ~ 210.0	P
150	150	147.4	2.6	2.5	90.0 ~ 210.0	P
200	150	163.2	-13.2	2.5	90.0 ~ 210.0	P
230	150	173.1	-23.1	2.5	90.0 ~ 210.0	P

备注:

Notes:

结论 (Conclusion): 所校项目符合技术要求

1.本报告中的扩展不确定度是由标准不确定度乘以包含概率约为95%时的包含因子 k 。

The expanded uncertainty is given in the report by the standard uncertainty multiplied by the probability of about 95% when the factor k .

2.依据(Reference document)

JJF 1059.1-2012 测量不确定度评定与表示

(JJF 1059.1-2012 Evaluation and Expression of Uncertainty in Measurement)

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