

校准证书

CALIBRATION CERTIFICATE

证书编号:



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Certificate No.

J202308290118A-0001-G1

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of

委托方

FUNDACAO CPQD – CENTRO DE PESQUISA E
DESENVOLVIMENTO EM TELECOMUNICACOES

Client

联络信息

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13.086-902

Contact Inf.

仪器名称

Coupling Decoupling Network for Communication Lines

Description

型号/规格

CDN61000-5C-H8BC

制造厂

LISUN GROUP

Model/Type

Manufacturer

出厂编号

0506N8B23015

管理号

Serial No.

Asset No.

接收日期

2023年09月05日

校准日期

2023年09月05日

Receipt Date

Y M D

Cal. Date

Y M D

发布日期

2023年09月25日

Issued Date

Y M D

批准

Approved by

李文兴

李文兴

审核

Inspected by

刘灿星

刘灿星

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Calibrated by

陆鑫炜

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证书专用章

(Stamp)

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扫一扫验真伪

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)。(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 laboratroy .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。(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.)
- 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.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 1741-2019 浪涌(冲击)模拟器校准规范 (C.S of Surge Simulators) 开路电压: (0.5~4)kV 短路电流: (0.25~2)kA 时间: 1ns~5s

6. 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
示波器	C058276	J202211301890- 0041 2023-12-19	广州广电计量检 测股份有限公司	直流增益:±1.5%;时基:±10ppm
差分探头	C032025	J202212302727- 0079 2024-02-02	广州广电计量检 测股份有限公司	±2%
电流线圈	186004	J202210313432- 0001 2023-10-27	广州广电计量检 测股份有限公司	MPEV: 1.0%

7. 校准地点、环境条件(Place and environmental conditions of the calibration):

地点	客户三楼实验室	温度	21	°C	相对湿度	51	%
Place		Temperature			Relative Humidity		

8. 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.

校 准 结 果

RESULTS OF CALIBRATION

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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、开路脉冲电压的校准

Calibration of Open Circuit Voltage

通道	标称值	实测值	误差	不确定度	允许误差	结论
Channel	Nominal	Measured	Error	$U_{rel}(k=2)$	MPE	Conclusion
	(kV)	(kV)	(kV)	(%)	(kV)	(Pass/Fail)
ALL LINE-PE	2	2.02	-0.02	3.5	± 0.20	P
	-2	-2.03	0.03	3.5	± 0.20	P

3、开路电压脉冲波前时间的校准

Calibration of Open Circuit Front Time

通道	电压	标称值	实测值	误差	不确定度	允许误差	结论
Channel	Voltage	Nominal	Measured	Error	$U_{rel}(k=2)$	MPE	Conclusion
	(kV)	(μ s)	(μ s)	(μ s)	(%)	(μ s)	(Pass/Fail)
ALL LINE-PE	2	1.2	0.89	0.31	5.5	± 0.36	P
	-2	1.2	0.90	0.30	5.5	± 0.36	P

4、开路电压脉冲半波时间的校准

Calibration of Open Circuit Time to Half Value

通道	电压	标称值	实测值	误差	不确定度	允许误差	结论
Channel	Voltage	Nominal	Measured	Error	$U_{rel}(k=2)$	MPE	Conclusion
	(kV)	(μ s)	(μ s)	(μ s)	(%)	(μ s)	(Pass/Fail)
ALL LINE-PE	2	45	57	-12	5.5	± 14	P
	-2	45	58	-13	5.5	± 14	P

备注:

Notes:

结论(Conclusion): 所校项目符合技术要求

The calibration items meet the provisions of the technical indicators

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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