

校准证书
CALIBRATION CERTIFICATE

证书编号:

Certificate No.



J202606226443-01-0001-G1

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委托方

Client

QAV Technologies Sdn. Bhd.

联络信息

Contact Inf.

150-E, Jalan Kampung Jawa, Mk. 12, Plot 205, Bayan Lepas Free Industrial Zone, 11900 Bayan Lepas, Penang, Malaysia

仪器名称

Description

耦合去耦网络/Coupled Decoupling Network

型号/规格

Model/Type

CDN-M5-32

制造厂

Manufacturer

LISUN GROUP

出厂编号

Serial No.

CDNM532-0260601

管理号

Asset No.

接收日期

Receipt Date

2026年07月10日

Y M D

校准日期

Cal. Date

2026年07月13日

Y M D

发布日期

Issued Date

2026年07月13日

Y M D

批准

Approved by

赵大星

赵大星

审核

Inspected by

宋硕

宋硕

校准

Calibrated by

赵海峰

赵海峰

证书专用章

(Stamp)

总部地址(Headquarters Add.): 广东省广州市番禺区石碁镇创运路8号

No.8, Chuangyun Road, Shiqi Town, Panyu District, Guangzhou, Guangdong, China

实验室地址(Add.of the Lab): 江苏省无锡市新吴区宁韵路8号

No.8,Ningyun Road,,Xinwu District,Wuxi,Jiangsu,China

联系电话(Tel.):400-602-0999

邮政编码(Postcode):511450

网站(Website):http:// www.grgtest.com

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扫一扫验真伪

校验码: 615178

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: 无锡计量信号室
Place

温度: (21.1~21.3) °C
Temperature

相对湿度: (50~51) %
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(电子)0034-2019 耦合去耦网络校准规范(C.S.for Coupling Decoupling Networks) 共模阻抗: (100~200) Ω(9kHz~300MHz) 耦合系数: (-2~0)dB(9kHz~300MHz) 去耦衰减: 30dB(9kHz~300MHz) 差模阻抗: (50~150)Ω(9kHz~300MHz)

校准说明
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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
网络分析仪 Network analyzer	MY49408181	J202603032843A- 0011 2027-03-27	广电计量检测 (无锡)有限公司	频率1.3E-8;电平&功率线性 0.24dB;平均噪声电平0.39dB
校准件 Calibration pieces	MY53202459	J202603032843- 0022 2027-04-05	广电计量检测 (无锡)有限公司	回损: $\geq 38\text{dB}$, 相位: $\pm$ (0.65~1.00)°

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

网络分析仪/Network analyzer(MY49408181)→校准件/Calibration pieces(MY61410226)→网络分析仪/network analyzer(US61255200)→检验件件Verification(中国计量科学研究院NIM);
校准件/Calibration pieces(MY53202459)→校准件/Calibration pieces(MY61410226)→网络分析仪/network analyzer(US61255200)→检验件件Verification(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)	标称值 Nominal (dB)	实测值 Measured (dB)	误差 Error (dB)	不确定度 U (k=2) (dB)	允许值 Limit (dB)	结 论 Conclusion (Pass/Fail)
0.15	10	10.34	-0.34	0.28	9.00 ~ 12.00	P
0.3	10	10.41	-0.41	0.28	9.00 ~ 12.00	P
0.5	10	10.45	-0.45	0.28	9.00 ~ 12.00	P
0.7	10	10.46	-0.46	0.28	9.00 ~ 12.00	P
1	10	10.47	-0.47	0.28	9.00 ~ 12.00	P
2	10	10.46	-0.46	0.28	9.00 ~ 12.00	P
3	10	10.47	-0.47	0.28	9.00 ~ 12.00	P
5	10	10.58	-0.58	0.28	9.00 ~ 12.00	P
7	10	10.65	-0.65	0.28	9.00 ~ 12.00	P
10	10	10.71	-0.71	0.28	9.00 ~ 12.00	P
13	10	10.68	-0.68	0.28	9.00 ~ 12.00	P
15	10	10.70	-0.70	0.28	9.00 ~ 12.00	P
20	10	10.66	-0.66	0.28	9.00 ~ 12.00	P
25	10	10.55	-0.55	0.28	9.00 ~ 12.00	P
30	10	10.53	-0.53	0.28	9.00 ~ 12.00	P
50	10	10.56	-0.56	0.28	9.00 ~ 12.00	P
80	10	11.10	-1.10	0.28	≤ 15.00	P
100	10	11.33	-1.33	0.28	≤ 15.00	P
120	10	11.55	-1.55	0.28	≤ 15.00	P
150	10	12.34	-2.34	0.28	≤ 15.00	P
200	10	14.42	-4.42	0.28	≤ 15.00	P
230	10	14.51	-4.51	0.28	≤ 15.00	P

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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	165.8	-15.8	1.5	130.0 ~ 170.0	P
0.3	150	162.7	-12.7	1.5	130.0 ~ 170.0	P
0.5	150	161.6	-11.6	1.5	130.0 ~ 170.0	P
0.7	150	161.4	-11.4	1.5	130.0 ~ 170.0	P
1	150	161.1	-11.1	1.5	130.0 ~ 170.0	P
2	150	160.9	-10.9	1.5	130.0 ~ 170.0	P
3	150	160.5	-10.5	1.5	130.0 ~ 170.0	P
5	150	160.0	-10.0	1.5	130.0 ~ 170.0	P
7	150	159.8	-9.8	1.5	130.0 ~ 170.0	P
10	150	159.6	-9.6	2.5	130.0 ~ 170.0	P
13	150	159.5	-9.5	2.5	130.0 ~ 170.0	P
15	150	159.5	-9.5	2.5	130.0 ~ 170.0	P
20	150	159.3	-9.3	2.5	130.0 ~ 170.0	P
25	150	158.9	-8.9	2.5	130.0 ~ 170.0	P
30	150	158.3	-8.3	2.5	105.0 ~ 210.0	P
50	150	153.7	-3.7	2.5	105.0 ~ 210.0	P
80	150	140.3	9.7	2.5	90.0 ~ 210.0	P
100	150	135.8	14.2	2.5	90.0 ~ 210.0	P
120	150	129.0	21.0	2.5	90.0 ~ 210.0	P
150	150	118.4	31.6	2.5	90.0 ~ 210.0	P
200	150	105.3	44.7	2.5	90.0 ~ 210.0	P
230	150	100.6	49.4	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)

3.分压系数不在CNAS认可范围内

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