

GK470-键盘项目测试报告

GK470 – Keyboard Project Test Report

Antenna Test Report V1.0

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历史版本 (Revision History)

Version:	Date:	Summary of content:
V1.0	2026.05.12	天线测试报告 (Antenna Test Report)

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项目概况 (Project Overview)

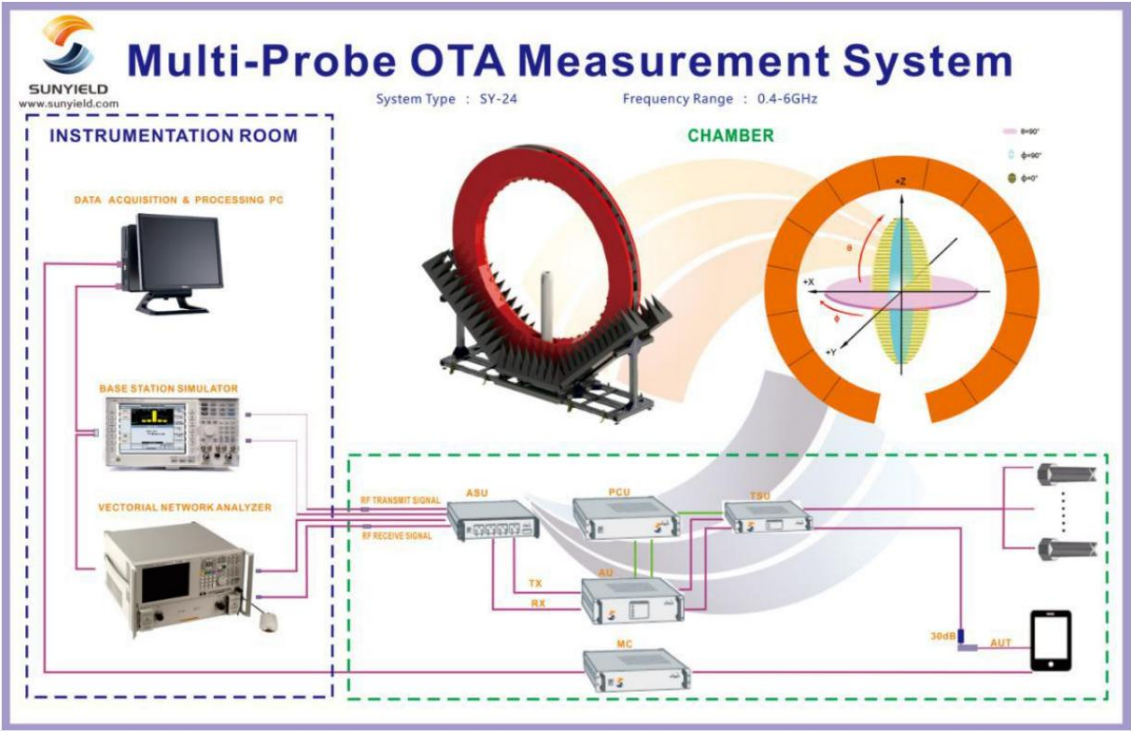
客户名称 Customer Name		项目名 Project Name	天线数目 Antenna Number	天线类型 Antenna Type
川东		GK470-键盘	1	板载天线 (onboard antenna)
天线频段 Frequency Bands				
WIFI		/		
BT	✓	2400-2500MHz		
GNSS		/		
NB		/		
2G		/		
3G		/		
4G		/		
5G		/		

测试标准 (Testing standard)

Name	Parameter	Method	Standard no.
Antenna performance	Radiation efficiency	IEEE Standard Test Procedures for Antennas	ANSIIEEE Std149-2021

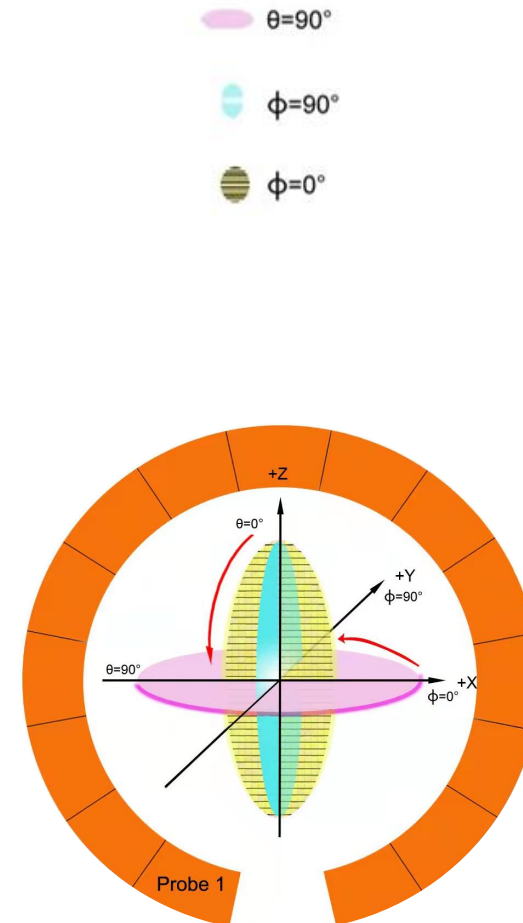
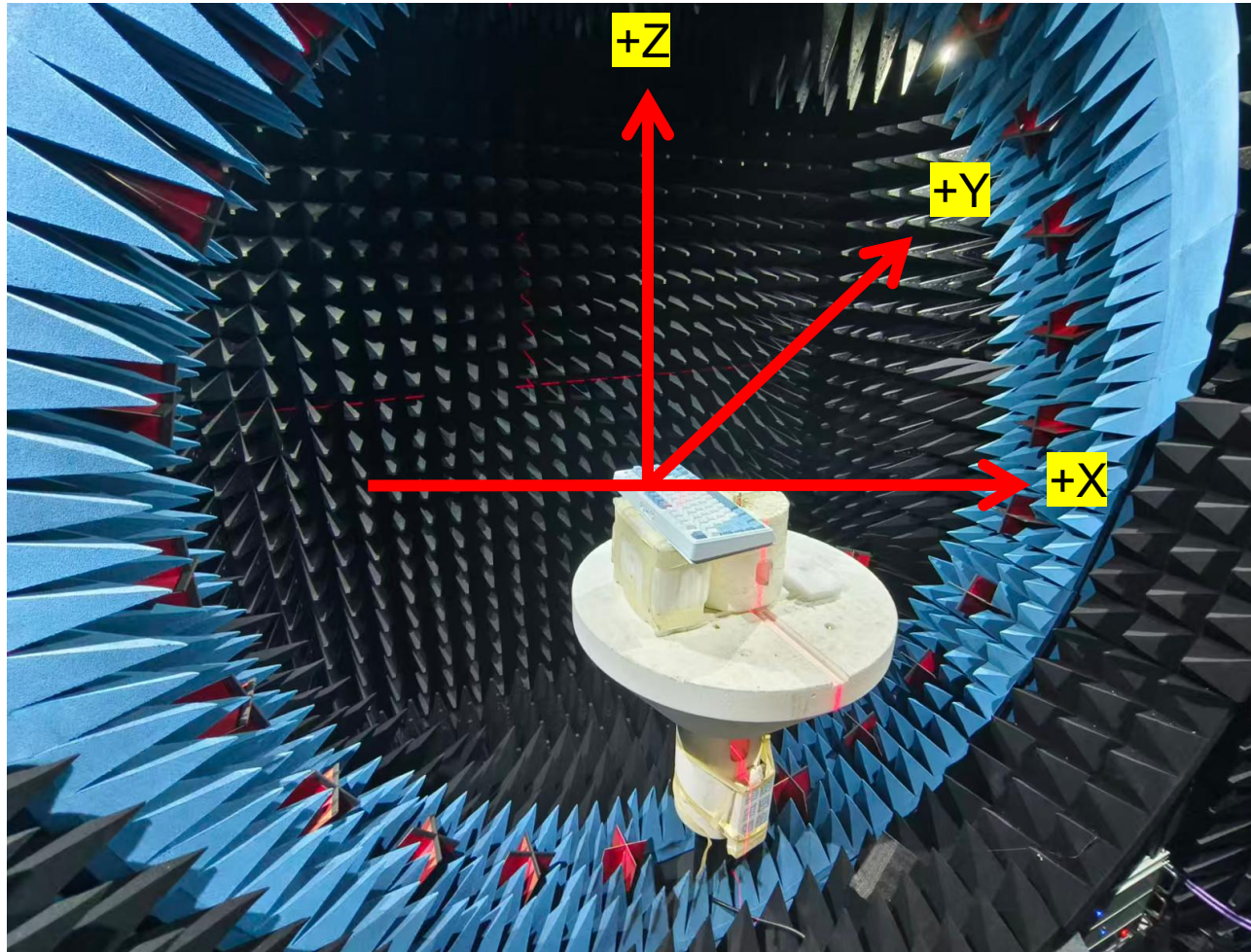
测试环境 (Test Environment)

Test Equipment	Agilent E5071B 300 kHz - 8.5 GHz
Test System	SY-24M SISO/MIMO, 400 - 8500MHz

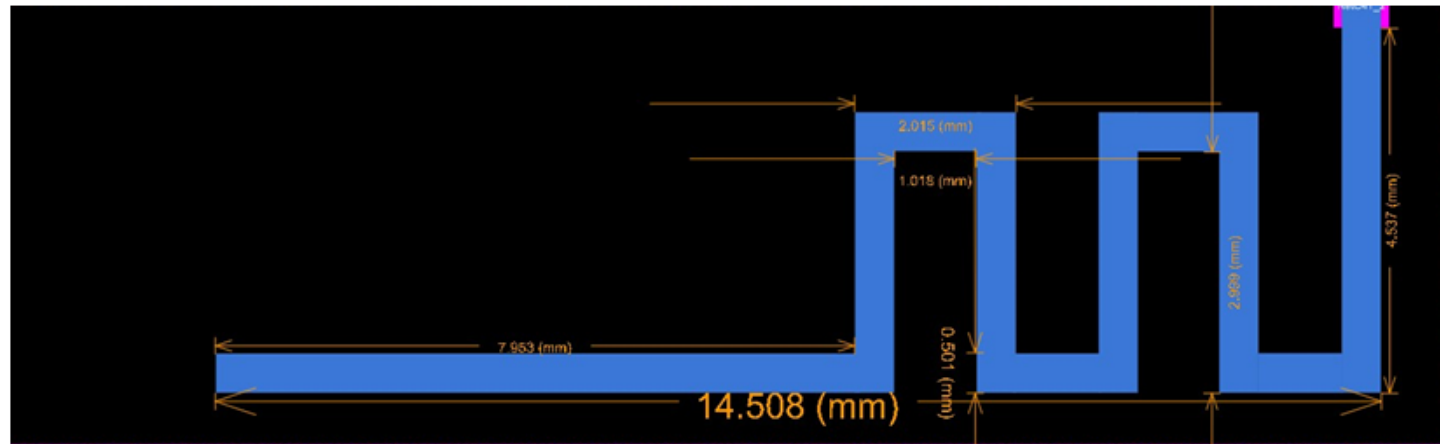


Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Due Date
Network Analyzer	Agilent	E5071B	—	2025.11.13	2026.11.12
Chamber	Sunyield	SY-24S	—	—	—

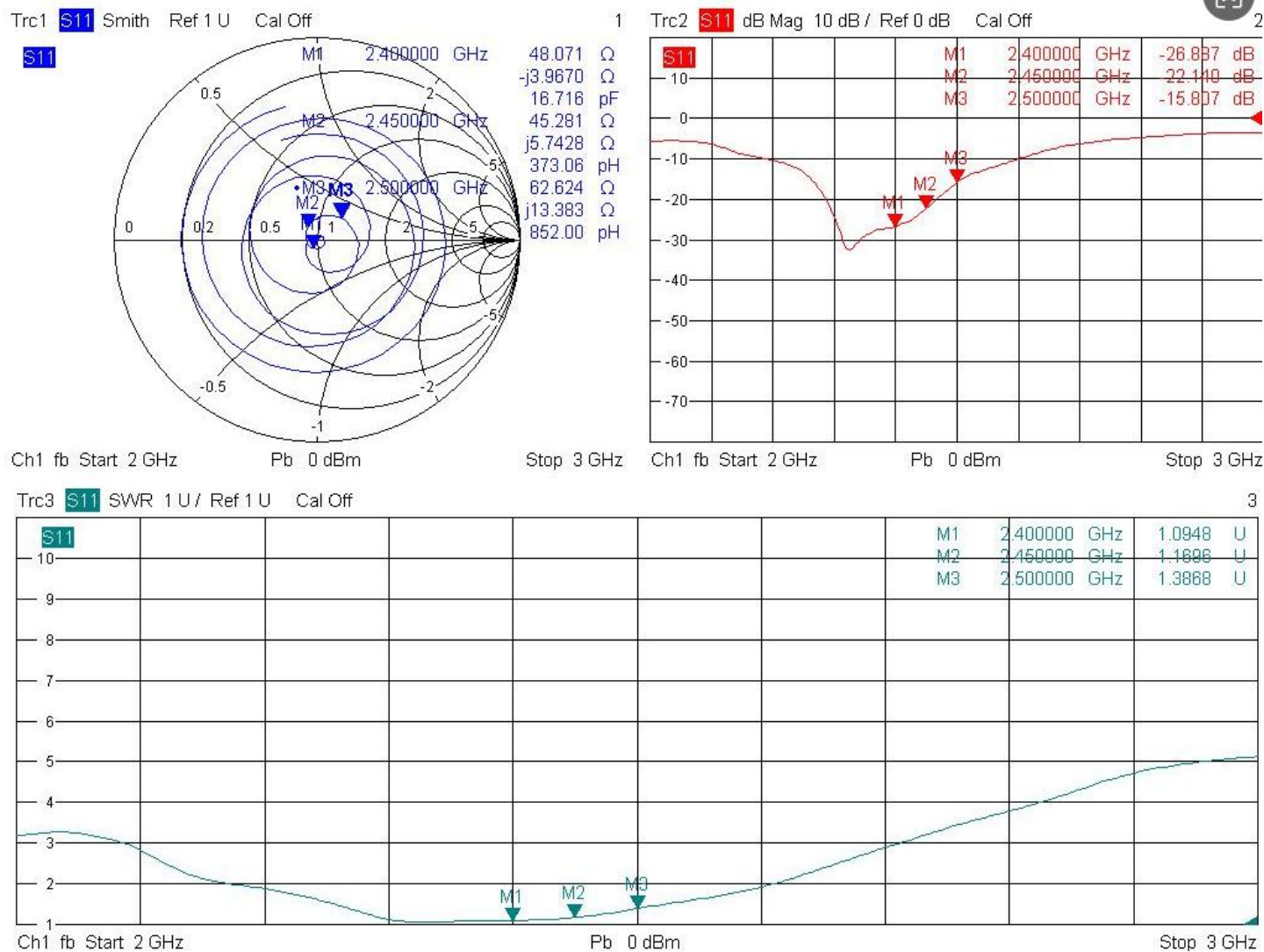
测试环境 (Test Environment)



天线图片Antenna picture



无源测试：驻波比 (Passive test: VSWR)

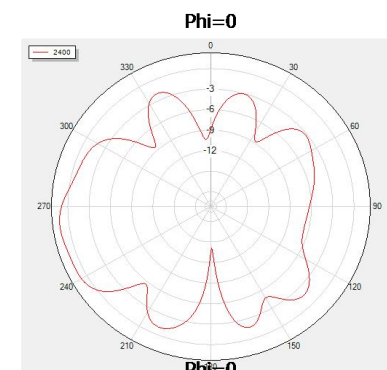
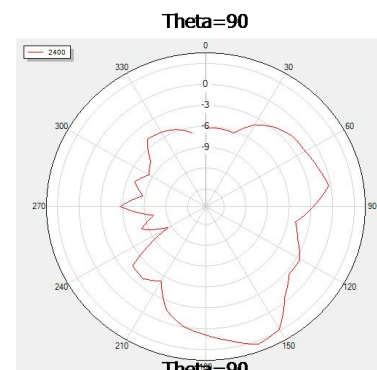
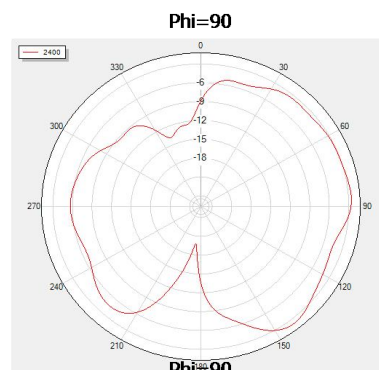
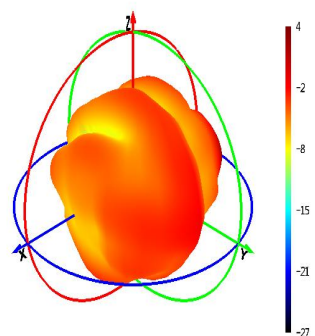


无源测试：效率和增益 (Passive test: Efficiency&Gain)

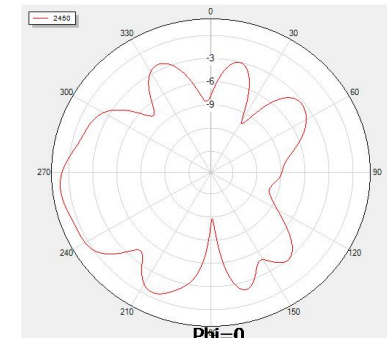
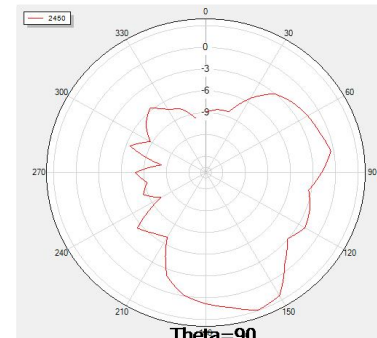
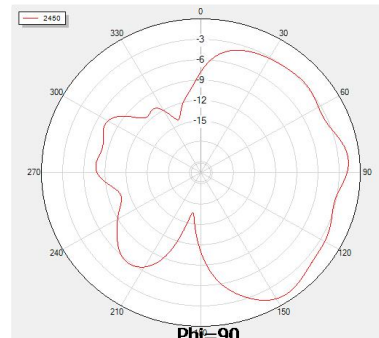
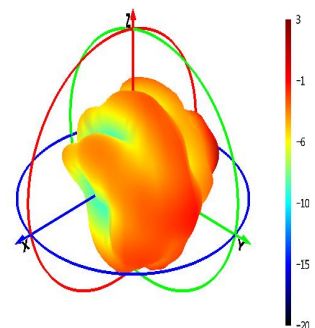
frequency 频率(MHz)	gain 增益(dBi)	efficiency 效率(dB)	efficiency 效率(%)
2400.00	1.54	-2.62	54.67
2410.00	1.77	-2.70	53.69
2420.00	1.55	-2.76	52.94
2430.00	1.23	-2.74	53.19
2440.00	1.32	-2.69	53.84
2450.00	1.95	-2.97	50.50
2460.00	1.19	-2.79	52.61
2470.00	1.45	-2.77	52.81
2480.00	1.55	-2.97	50.42
2490.00	1.55	-3.06	49.38
2500.00	1.80	-2.89	51.44

方向图 (Directional diagram)

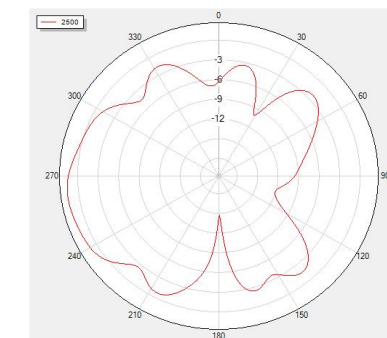
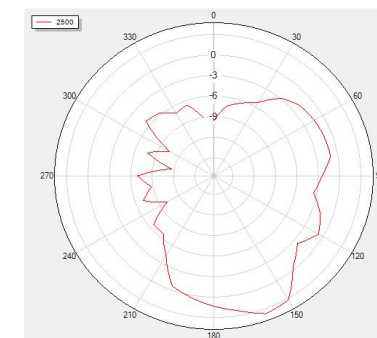
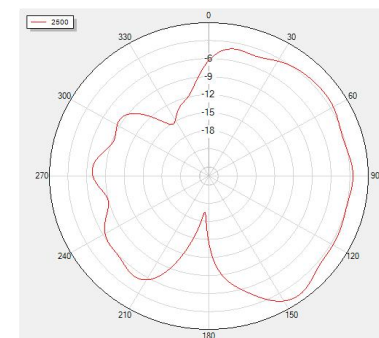
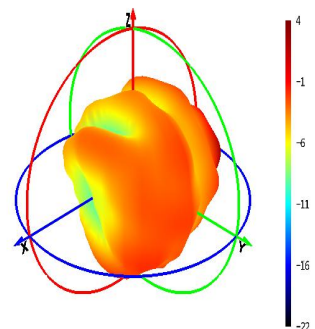
2400MHz



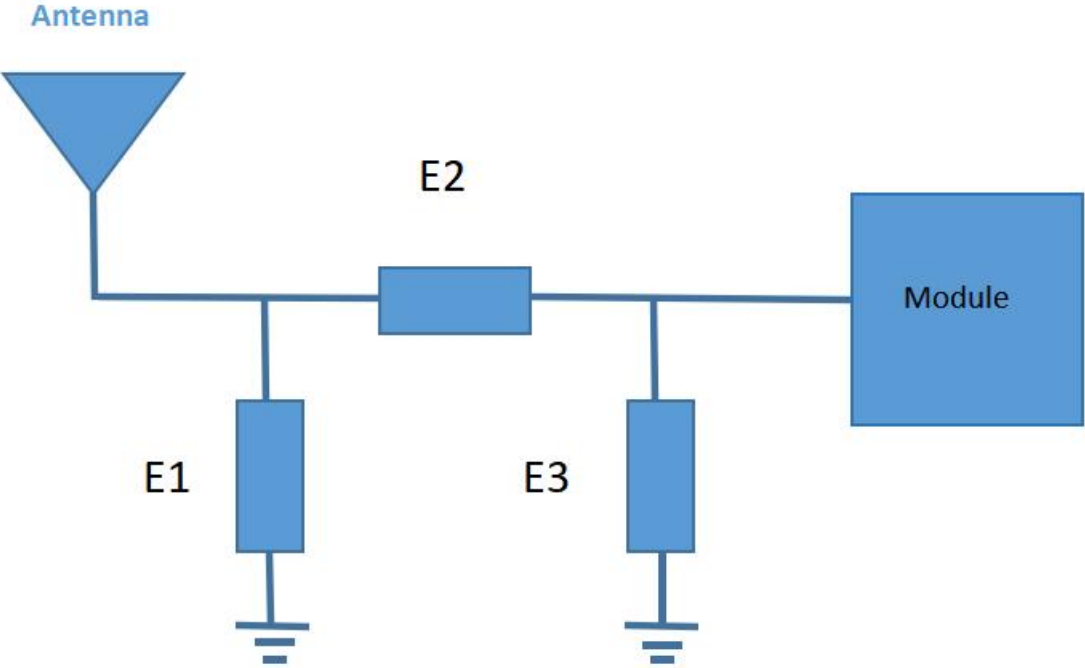
2450MHz



2500MHz



匹配电路 (Matching circuit)



E1	E2	E3
NA	NA	NA

匹配参数使用原始状态，未进行修改。
(The matching parameters are in their original state and have not been modified.)

建议和总结: (Recommendations and Summary:)

如上为GK470-键盘项目测试报告，如上请客户评估，谢谢！
(The above is the test report for the GK290 keyboard project.
Please have the customer review it. Thank you!)

