

承 认 书

SPECIFICATION APPROVAL SHEET

客 户 :
CUSTOMER _____

客 户 料 号 :
CUS PART NO _____

版次:

REV

X4

品 名 / 规格 : 2.4~2.5/5.15~5.85GHz
SPECIFICATION ANT-3 Antenna L=167mm(Ø1.13+MHF)

单重:

weight _____

供 方 料 号 :
SUP PART NO SLEingB242560185

日 期 :
DATE 2023.11.30

厂 商 核 准 :
SUP APPROVED

核准 APPROVED	结构审核 Structure audit	RF审核 RF CHECKED	品保审核 QA CHECKED	承办 DESIGNED
<i>Tommy</i>	H24	JDM	LSY	<i>Xiaojing</i>

客 户 核 准 :
CUS APPROVED

核准 APPROVED	审核 CHECKED	品保审核 QA CHECKED	承办 DESIGNED

东莞市森岭智能科技有限公司

DONGGUAN CITY SLEing INTEL-TECH CO., LTD

中国广东省东莞市松山湖工业东路24号现代企业加速器6栋402

Room 402, No. 6 Plant, Accelerator of Modern Enterprise, No. 24 Industry
East Road Songshanlake District, Dongguan City, Guangdong

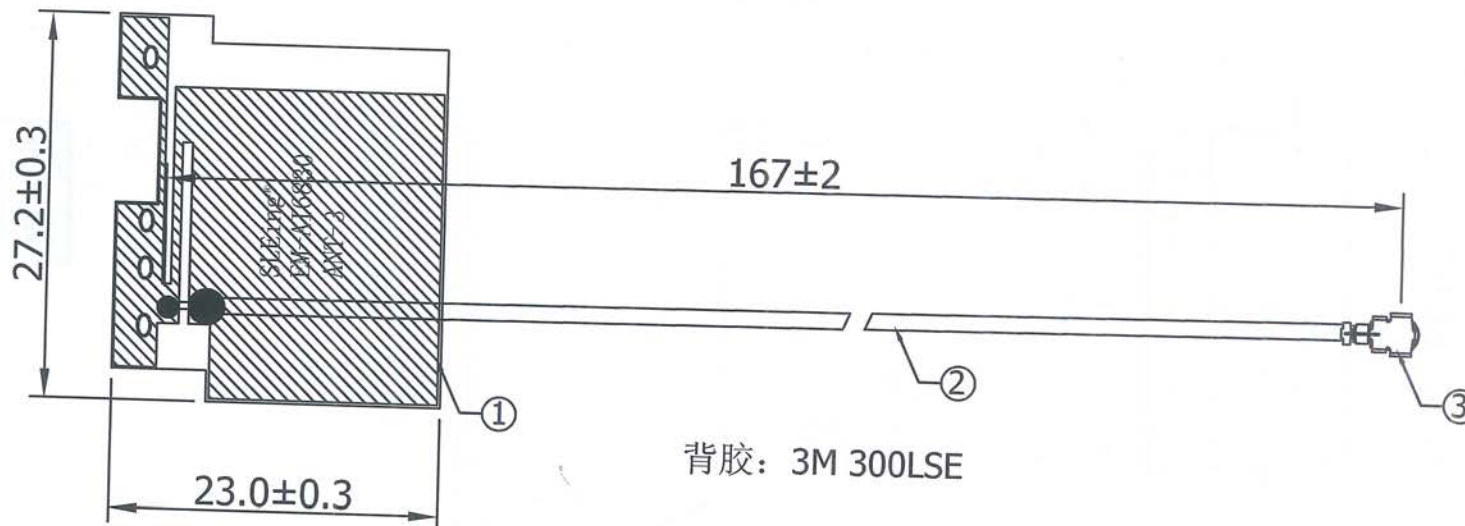
Tel: +86-076989208968

Fax: +86-0769-89208969

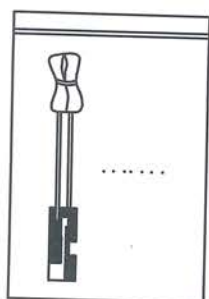
www.sleing.com

正本由承办单位保存

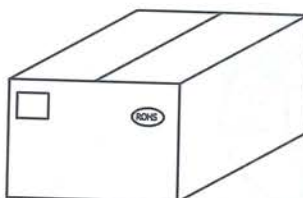
REV.	CONTENT	DATE
X1	First Sample	2023.08.24
X2	修改FPC及线长	2023.09.11
X3	修改FPC	2023.10.17
X4	修改FPC	2023.11.30



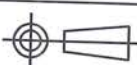
Specification:
Frequency Rang:2.4~2.5/5.15~5.85GHz(带机测试)
Return Loss:-10dB or less
VSWR:1.92 Max



50pcs/Bundle
Packing:100pcs/bag



外箱须贴ROHS标签与物料标签各1PCS

SLEing® 森岭 东莞市森岭智能科技有限公司 DONGGUAN SLEing INTEL-TECH CO.,LTD	CUSTOMER		
	PART NO		
	TITLE		ANT-3 ANTENNA
	S.L P/NO		SLEingB242560185
 TOLERANCE UNLESS OTHERWISE SPECIFIED UNIT:mm SHEET: 1/1 SCALE: 1/1	SIZE		DRAWN
	CHECKED		APPROVED
	A4		2023.11.30

NO	PART NAME	DESCRIPTION	REMARK	Q'TY
3	Connector	MHF Plug for $\Phi 1.13$ Cable	第一代端子	1
2	Cable	$\Phi 1.13$ mm Coaxial Cable Black,50 Ω		1
1	FPCB	FPC,L27.2*W23.0*T0.3mm,Color:Black	300LSE Adhesive	1



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DONGGUAN SLEing INTEL-TECH CO.,LTD

Electrical Properties	
Frequency	2.4~2.5/5.15~5.85GHz(带机测试)
Impedance	50 Ohm Nominal
V.S.W.R	≤ 1.92
Return Loss	-10 dB Max
Radiation	Omni-directional
Gain (Peak)	0.81 dBi
Polarization	Linear, Vertical
Admitted Power	2 W
Connector	MHF
Physical Properties	
Antenna Material	FPCB
Cable Type	$\Phi 1.13\text{mm}$ Black
Operating Temp.	-40~+85 °C
Storage Temp.	-5~+30 °C
Model Number	X4

Manufacturer: DONGGUAN CITY SLEing INTEL-TECH CO.,LTD.

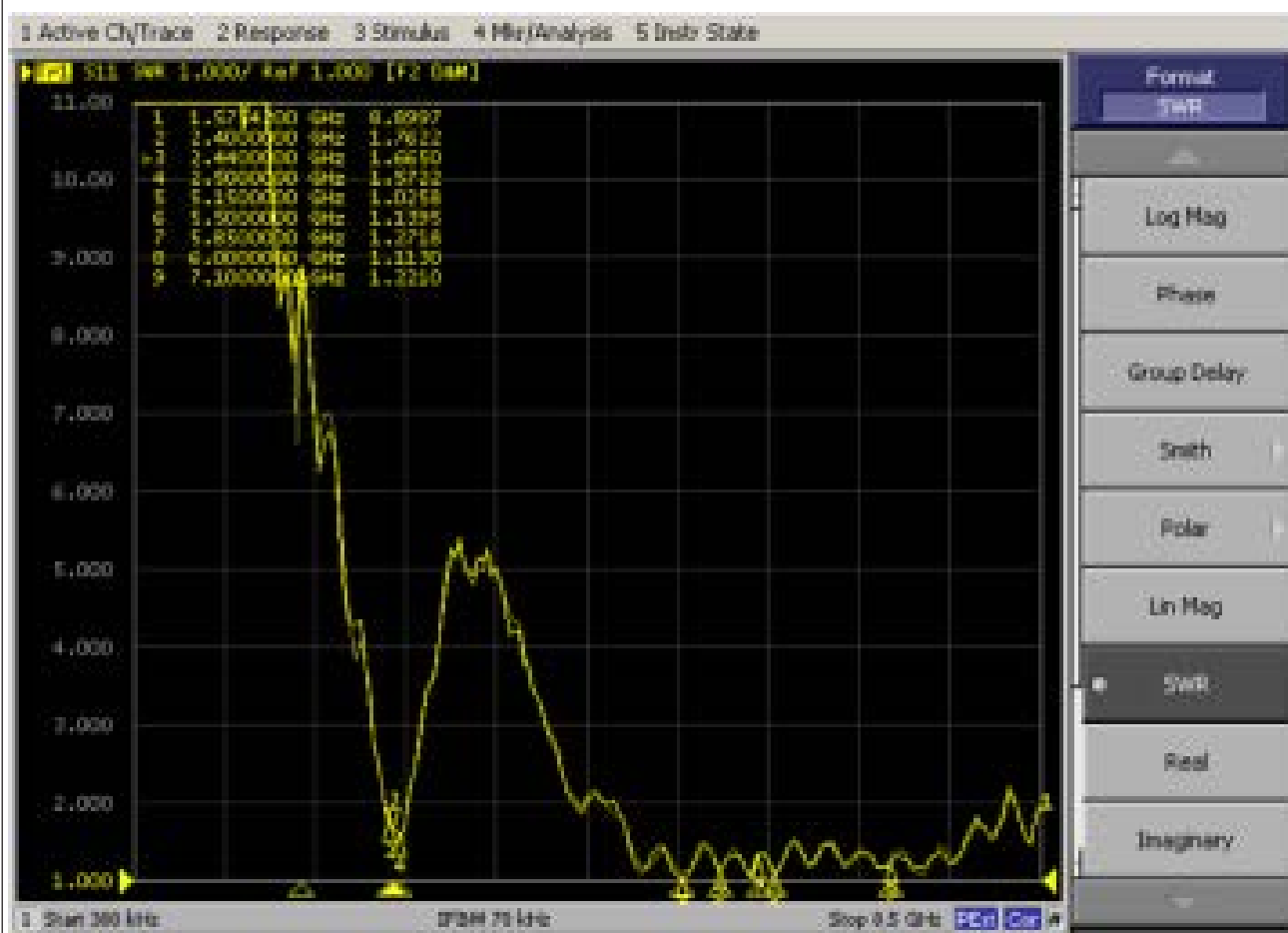
Address: Room 402, No.6 Plant, Accelerator of Modern Enterprise,
No.24 Industry East Road Songshanlake District, Donguan City,
Guangdong, China

S Parameter Test

Agilent E5071C Network Analyzer



WiFi 驻波 Antenna (NO.1)

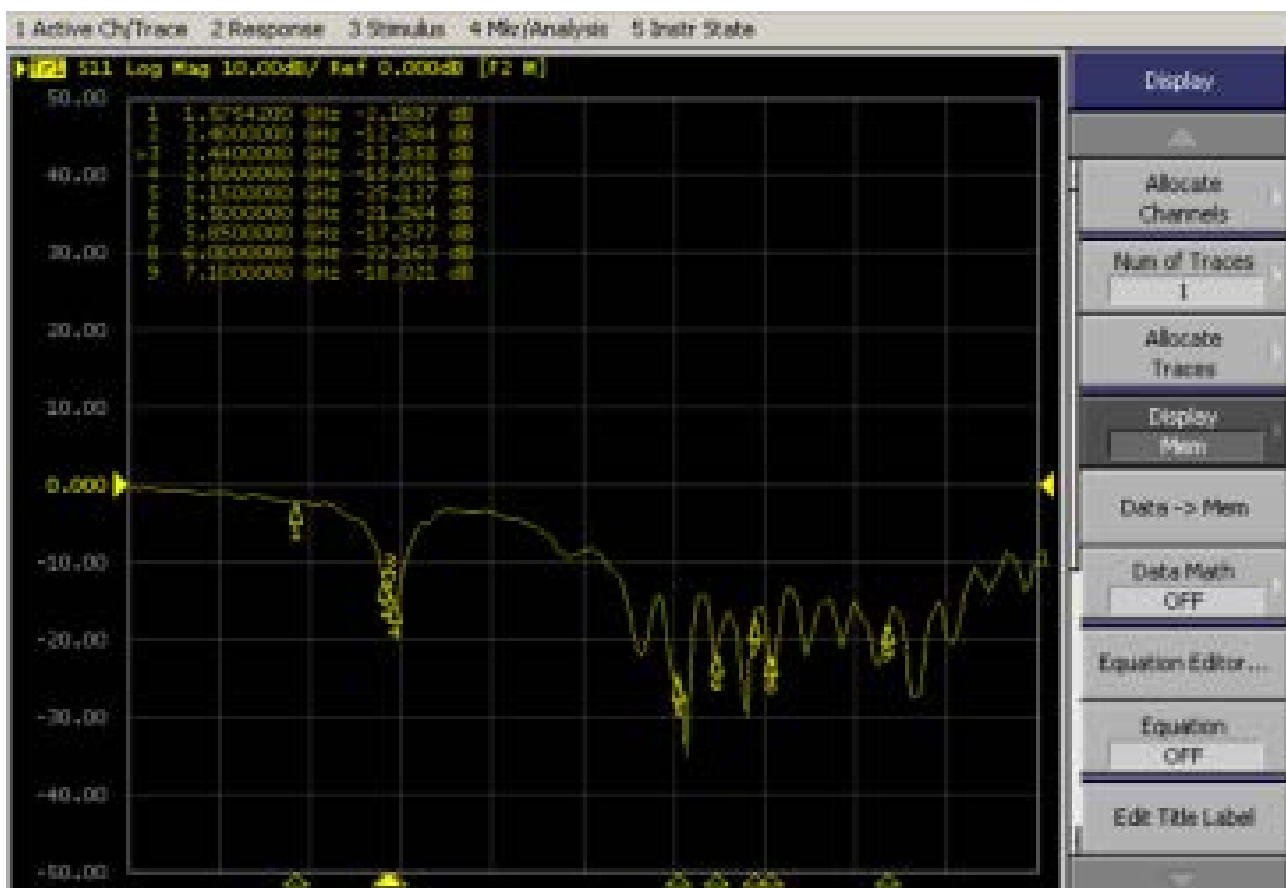


S Parameter Test

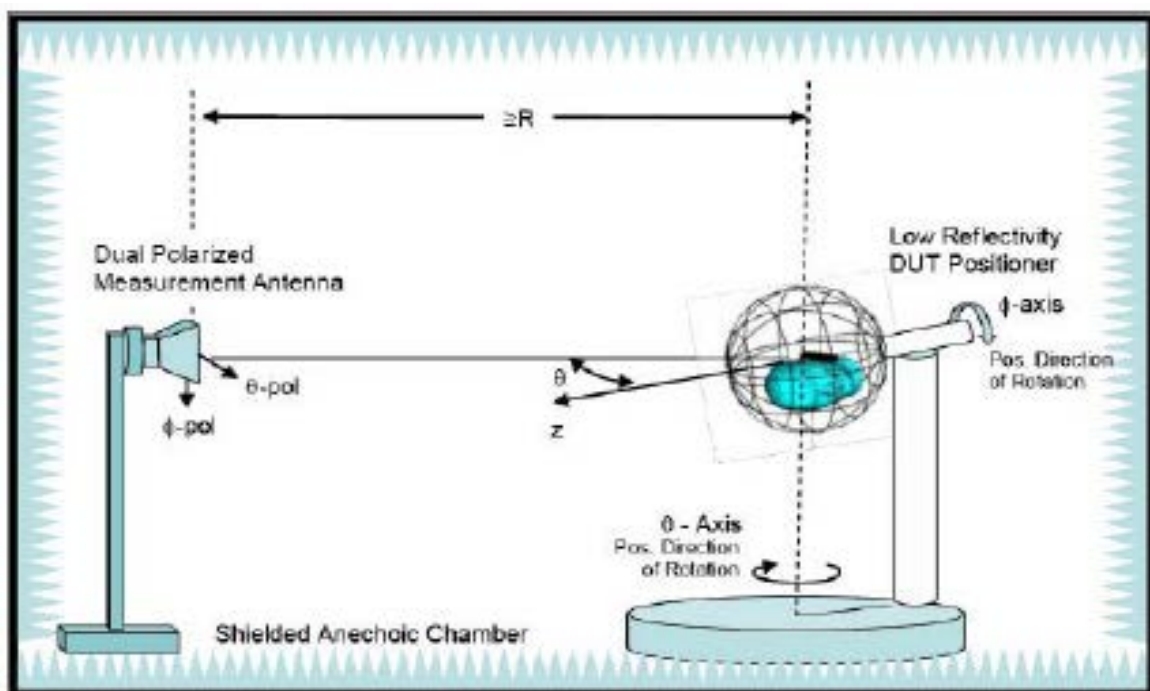
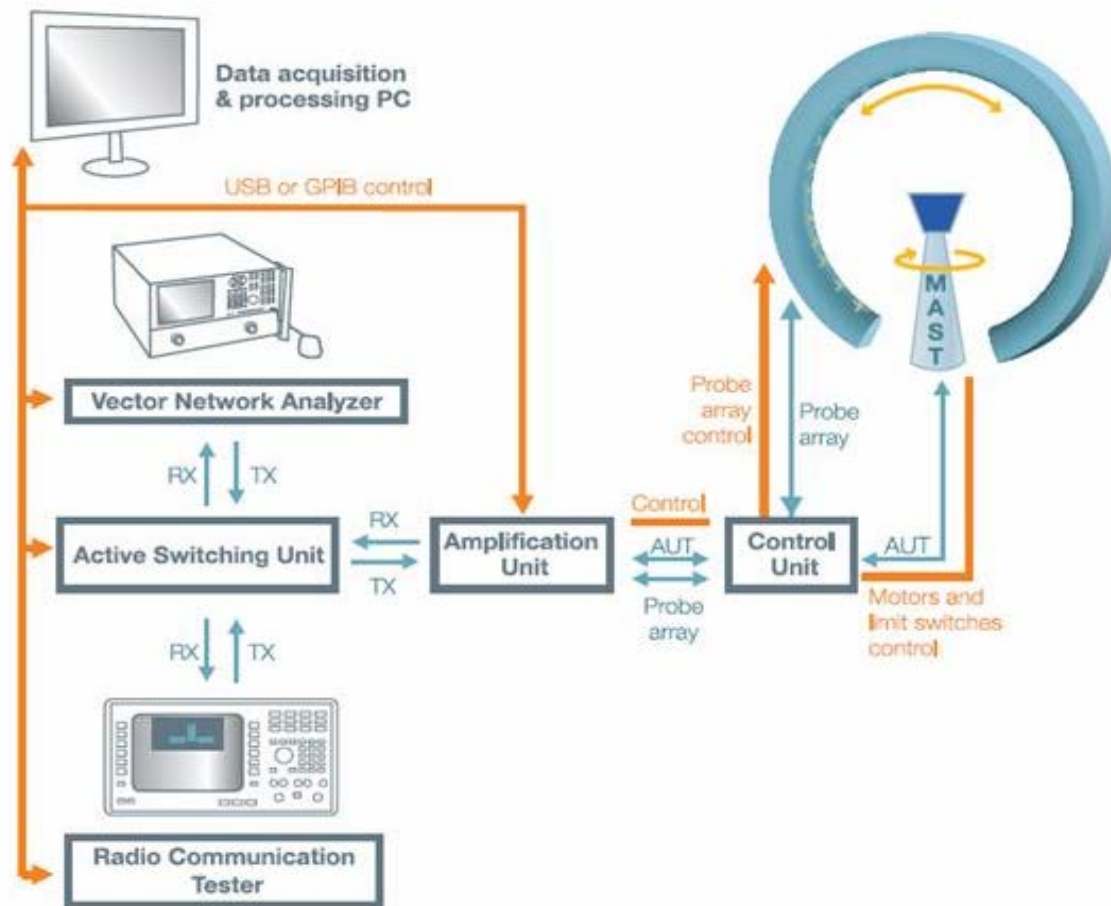
Agilent E5071C Network Analyzer



WiFi 回波损耗 Antenna (NO.1)

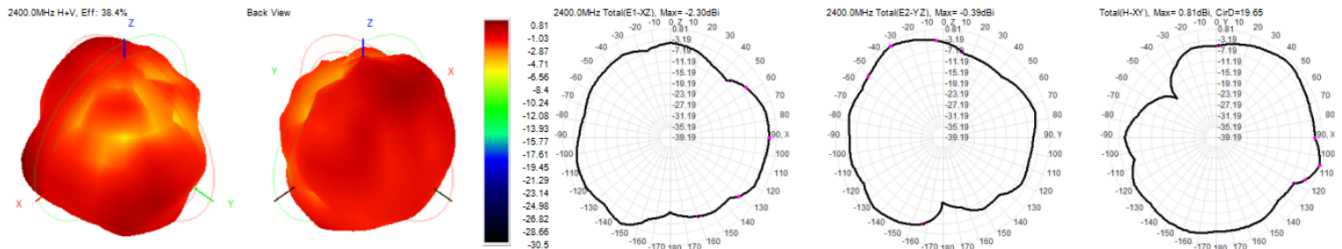


Test Setup



Test Efficiency

项目名称 ESP32-S3 WIFI天线无源效率测试报告										
2.4G WiFi	Frequency ID	1	2	3	4	5	6	7	8	9
	Frequency (MHz)	2400.0	2410.0	2420.0	2430.0	2440.0	2450.0	2460.0	2470.0	2480.0
	Gain (dBi)	0.81	0.51	0.63	0.42	0.54	0.51	0.69	0.55	0.50
	Efficiency (%)	38.4	39.4	37.8	38.4	38.9	39.6	40.1	40.1	40.4





东莞市森岭智能科技有限公司

DONGGUAN SLEing INTEL-TECH CO., LTD

OTA

ESP32-S3 2.4G	11b 11Mbps	13.5	-82.0
		14.8	-81.0
		15.0	-81.9
		14.4	-81.6