

SPECIFICATION APPROVAL SHEET

CUSTOMER _____

CUS PART NO _____

版次:

REV _____ X1

SPECIFICATION _____
2.4-2.5GHz
WIFI Antenna L=70mm(Ø1.13+Tin)

单重:

weight _____

SUP PART NO _____
SLEingA200330070-C05

DATE _____
2024.02.01

SUP APPROVED

APPROVED	CHECKED	QA CHECKED	DESIGNED
Jalpers	Jerry	LSY	Jerry

2024.2.1

CUS APPROVED

APPROVED	CHECKED	QA CHECKED	DESIGNED

DONGGUAN SLEing INTEL-TECH CO., LTD

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

Tel: +86-076989208968

Fax: +86-0769-89208969

www.sleing.com



DONGGUAN SLEing INTEL-TECH CO.,LTD

变更记录
MODIFICATION RECORD SHEET

(REV.)	(Modification date)	Summary of modification content	Signature	Approval
X1	2024.02.01	First Issue	Jerry	Jongrei

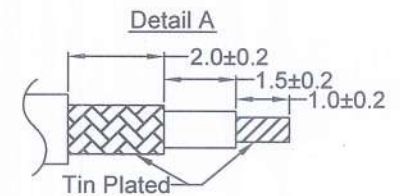
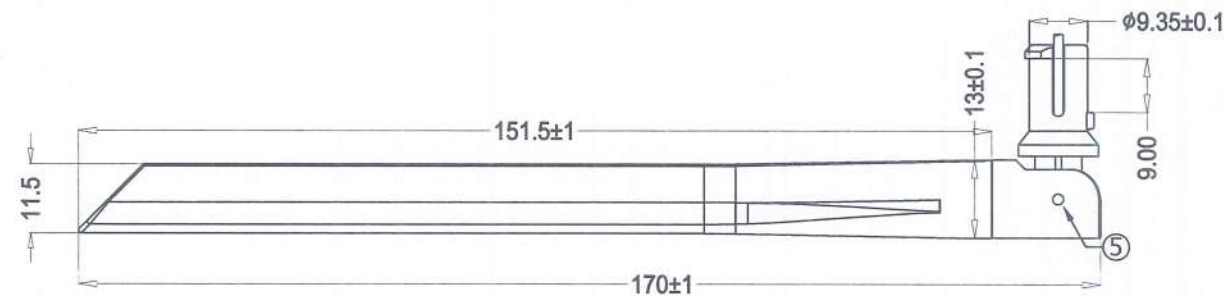
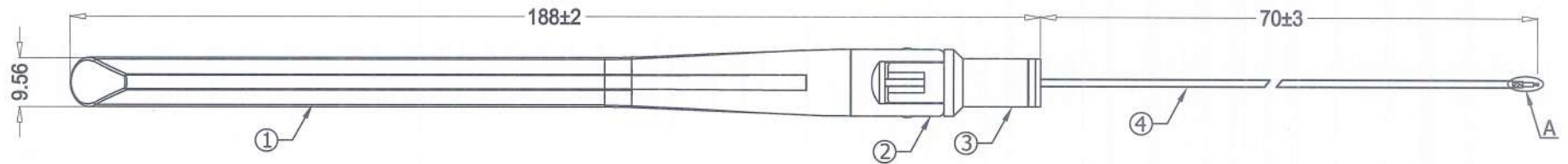
Spec Item

NO.	Project	Remark	Page
1	Spec Cover		1
2	MODIFICATION RECORD SHEET		2
3	Spec Item		3
4	Drawing		4
5	Test Reports		5
6	S Parameter Test		6
7	Test Setup		7
8	Test Efficiency		8
9	Patten		9

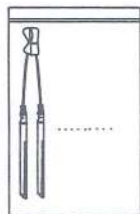
Give clear indication of:

1. The contents of the acknowledgement shall be arranged in order according to the items in the check sheet.
2. The number of copies of the acceptance letter shall be printed according to the customer's requirements, and the SGS report shall be stamped with the engineering seal.
3. All materials shall be confirmed by the customer. Any material/process/changes that may affect product quality and environmental quality must be re-sent to the customer for confirmation before import.
4. SGS report is valid for one year.
5. According to the contents attached to the actual acknowledgement, check the check form: "Yes" is provided, "no" is provided according to customer requirements.

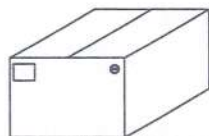
REV.	CONTENT	DATE
A	First Issue	2024.02.01



Specification:
Frequency Rang:2.4~2.5GHz
Return Loss:-10dB or less
VSWR:1.92 Max
Gain:5.0±0.5 dBi



25pcs/Bundle
Packing:50pcs/bag



外包装贴ROHS标签与物料标签各1PCS

5	Rivet	POM,Color:White		2
4	Cable	Φ1.13mm Coaxial Cable Dark Gray,50Ω		1
3	Bottom Base	PC,Color:White		1
2	Upper Base	PC,Color:White		1
1	Antenna Cap	TPEE,Color:White		1
NO	PART NAME	DESCRIPTION	REMARK	Q'TY

SLEing®
DONGGUAN SLEing INTEL-TECH CO.,LTD



TOLERANCE UNLESS
OTHERWISE SPECIFIED

UNIT:mm	ANGLES ±0.5°	X. ±0.3
SHEET: 1/1	XX ±0.05	XX. ±0.5
SCALE: 1/1		XXX. ±2.0

CUSTOMER			
PART NO			
TITLE		RF ANTENNA	
S.L P/NO		SLEingA200330070-C05	
SIZE	DRAWN	CHECKED	APPROVED
A4	Jerry	Jerry	Jerry



Test Reports

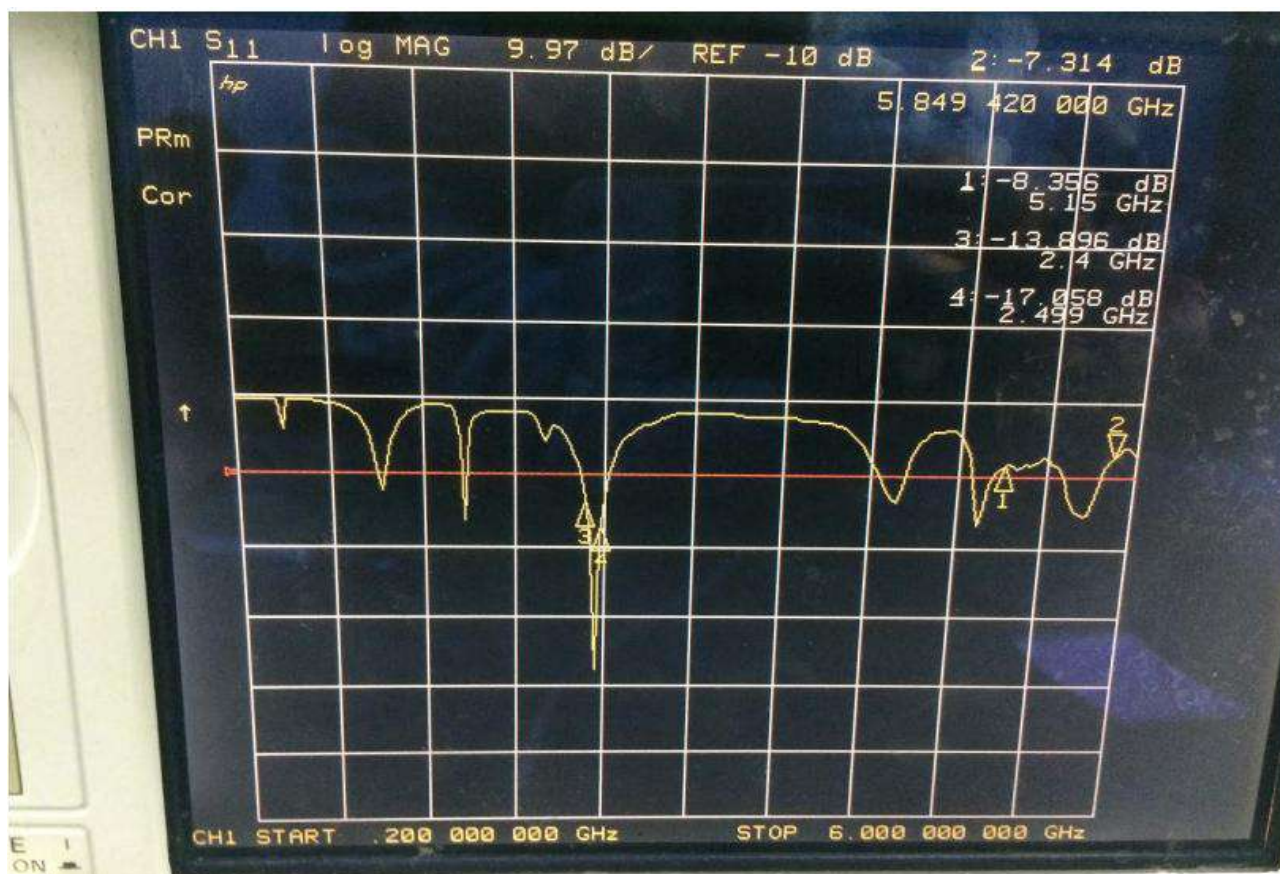
Electrical Properties	
Frequency	2.4-2.5GHz
Impedance	50 Ohm Nominal
V.S.W.R	≤ 1.92
Return Loss	-10dB Max
Radiation	Omni-directional
Gain	5 ± 1 dBi
Polarization	Linear, Vertical
Admitted Power	2 W
Connector	Tin
Physical Properties	
Antenna Material	TPEE/PC/POM
Cable Type	$\Phi 1.13$ mm Dark Grey
Operating Temp	-40°C-85°C
Storage Temp.	-40°C-85°C

S Parameter Test

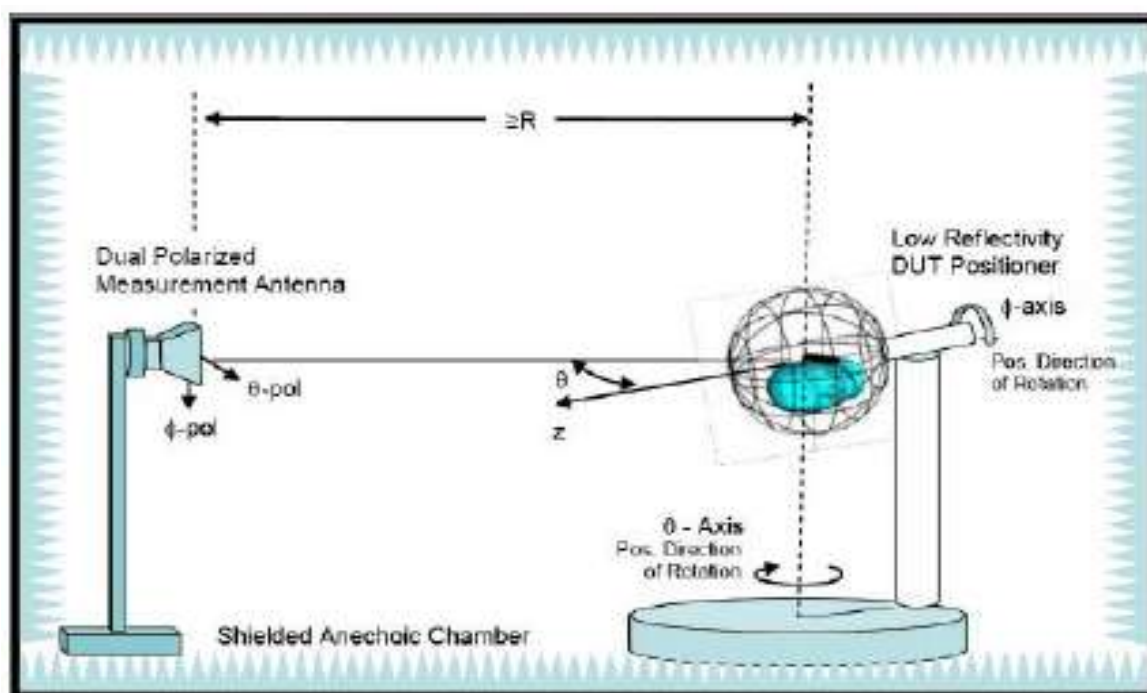
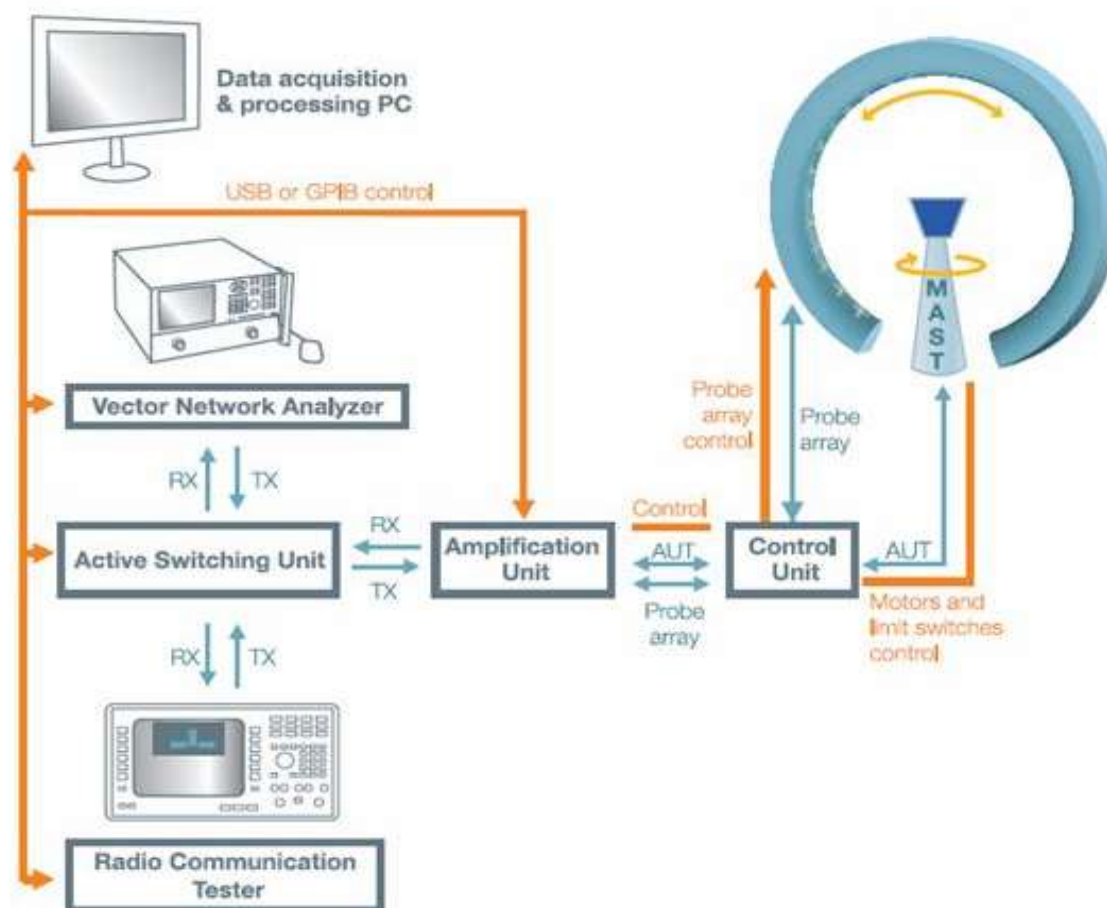
Agilent E5071C Network Analyzer



RF Antenna (Return Loss)



Setup



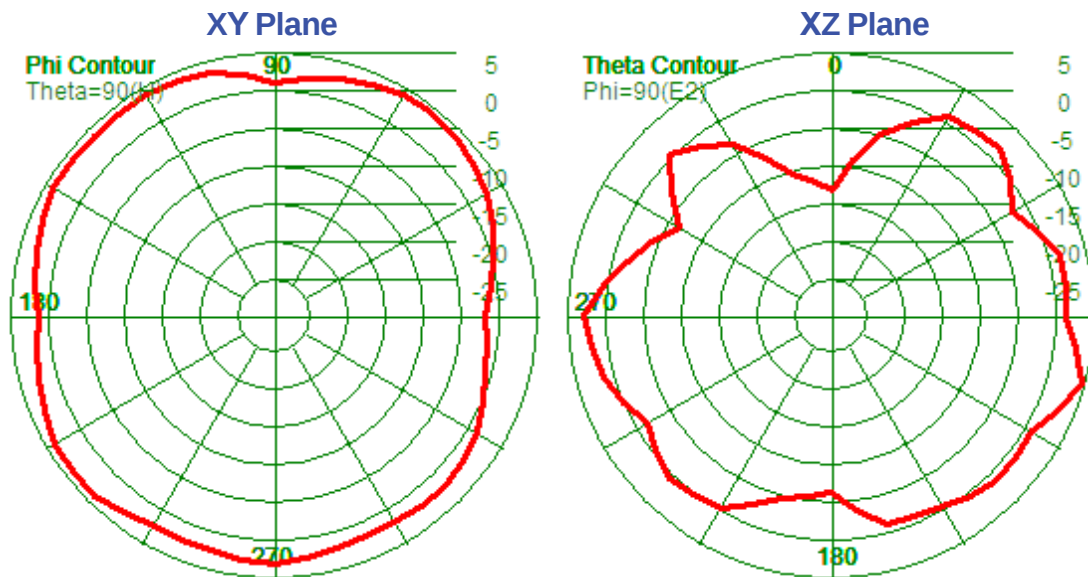
Test

Efficiency

Test Point ID	Freq. (MHz)	TRP (dBm)	Gain (dBi)	Directivity (dBi)	Efficiency (%)	Efficiency (dB)	Max (dBm)	Theta of Max	Phi of Max	Min (dBm)	Theta of Min	Phi of Min	AVG (dBm)	Max/Min (dB)	Max/AVG (dB)	Min/AVG (dB)
1	2400.0	2400.00	4.36	5.79	71.9%	-1.43	4.36	105	90	-14.90	0	30	-0.89	19.26	5.25	-14.01
2	2410.0	2410.00	4.29	5.87	69.5%	-1.58	4.29	105	135	-17.26	0	30	-1.41	21.55	5.70	-15.85
3	2420.0	2420.00	4.45	6.02	69.7%	-1.57	4.45	90	60	-20.51	0	30	-1.82	24.96	6.27	-18.69
4	2430.0	2430.00	4.48	5.93	71.6%	-1.45	4.48	90	60	-24.13	0	30	-2.28	28.61	6.76	-21.85
5	2440.0	2440.00	4.50	5.76	74.8%	-1.26	4.50	90	60	-25.48	0	45	-2.61	29.98	7.11	-22.87
6	2450.0	2450.00	4.87	6.05	76.2%	-1.18	4.87	90	60	-24.39	0	45	-2.43	29.26	7.30	-21.97
7	2460.0	2460.00	4.81	6.17	73.1%	-1.36	4.81	90	60	-23.90	0	165	-2.60	28.71	7.41	-21.30
8	2470.0	2470.00	5.12	6.44	73.7%	-1.32	5.12	90	60	-23.46	0	165	-2.37	28.58	7.49	-21.09
9	2480.0	2480.00	5.13	6.58	71.6%	-1.45	5.13	90	60	-22.43	0	165	-2.40	27.56	7.53	-20.03
10	2490.0	2490.00	4.80	6.21	72.2%	-1.41	4.80	90	60	-21.93	0	165	-2.81	26.73	7.61	-19.12
11	2500.0	2500.00	5.02	6.34	73.8%	-1.32	5.02	90	60	-20.44	0	165	-2.59	25.47	7.62	-17.85
12	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Patten

1.3 2D Radiation patterns test results (Passive Antenna)



1.5 3D Radiation patterns test results (Passive Antenna)

3D

