

SPECIFICATION APPROVAL SHEET

CUSTOMER _____

CUS PART NO _____

版次:

REV

X1

SPECIFICATION _____
5.15-5.85GHz
WIFI Antenna L=70mm(Ø1.13+Tin)

单重:

weight _____

SUP PART NO _____
SLEingA200330070-C06

DATE _____
2024.02.01

SUP APPROVED

APPROVED	CHECKED	QA CHECKED	DESIGNED
Jacobson 2024.2.1	Jerry	2024.02.01 工程部的	Jerry

CUS APPROVED

APPROVED	CHECKED	QA CHECKED	DESIGNED

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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

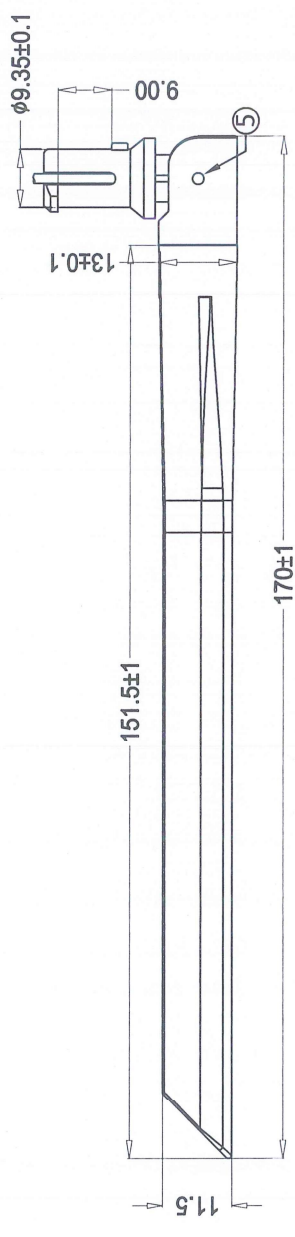
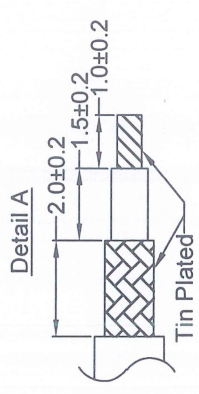
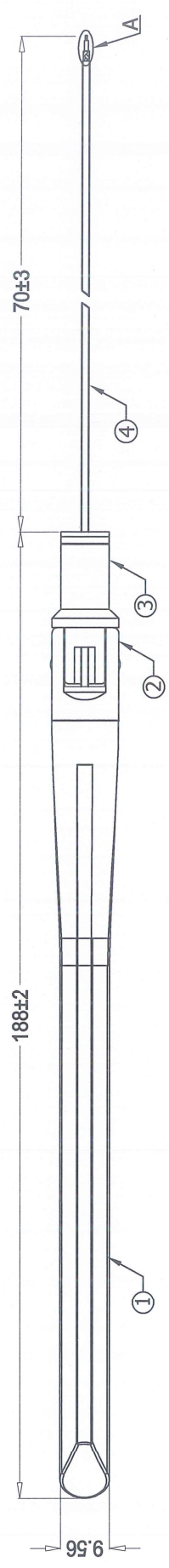
Spec Item

N0.	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.

1	2	3	4	5	6	7	8
REV.	CONTENT	DATE					
A	First Issue	2021.09.16					



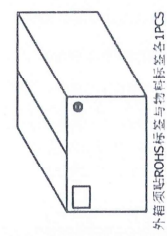
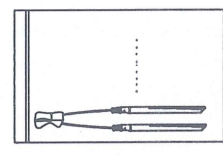
Specification:

Frequency Rang:5.15~5.85GHz

Return Loss:-10dB or less

VSWR:1.92 Max

Gain:5.0±0.5 dBi



25pcs/Bundle Packing:50pcs/bag		外箱須貼ROHS标签与材料标签各1PCS		SLEing® DONGGUAN SLEing INTEL-TECH CO., LTD															
				CUSTOMER		PART NO		TITLE		RF ANTENNA		S.L P/NO		SLEingA200330070-C06		APPROVED		A	
						TOLERANCE UNLESS OTHERWISE SPECIFIED		SIZE		DRAWN		CHECKED		A4		JERRY		JACKEE	
								X. ±0.3		XX. ±0.5		XXX. ±2.0							
				UNIT:mm		ANGLES ±0.5°		SHEET: 1/1		XX. ±0.05		XXX. ±2.0		4		3		2	
								SCALE: 1/1											
5				Rivet		POM,Color:White		2											
4				Cable		Φ1.13mm Coaxial Cable Black,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									
8				7		6		5		4		3		2		2024.02.07			

Test Reports

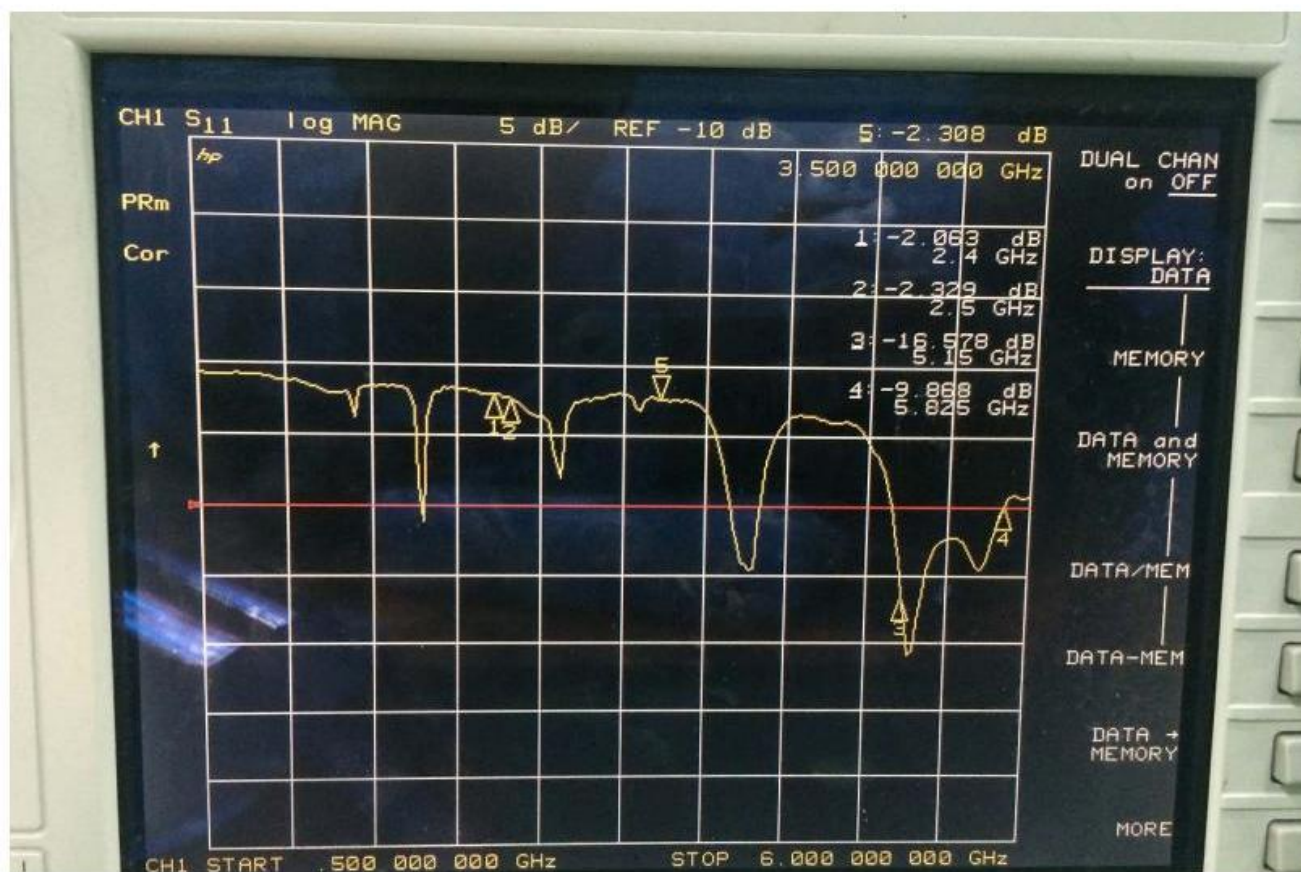
Electrical Properties	
Frequency	5.15-5.85GHz
Impedance	50 Ohm Nominal
V.S.W.R	≤ 1.92
Return Loss	-10dB Max
Radiation	Omni-directional
Gain	5 ± 1 dBi
Polarization	Linear, Vertical
Admitted Power	2 W
Connector	Tin
Physical Properties	
Antenna Material	TPEE/PC/POM
Cable Type	$\Phi 1.13$ mm Black
Operating Temp	-40°C-85°C
Storage Temp.	-40°C-85°C

S Parameter Test

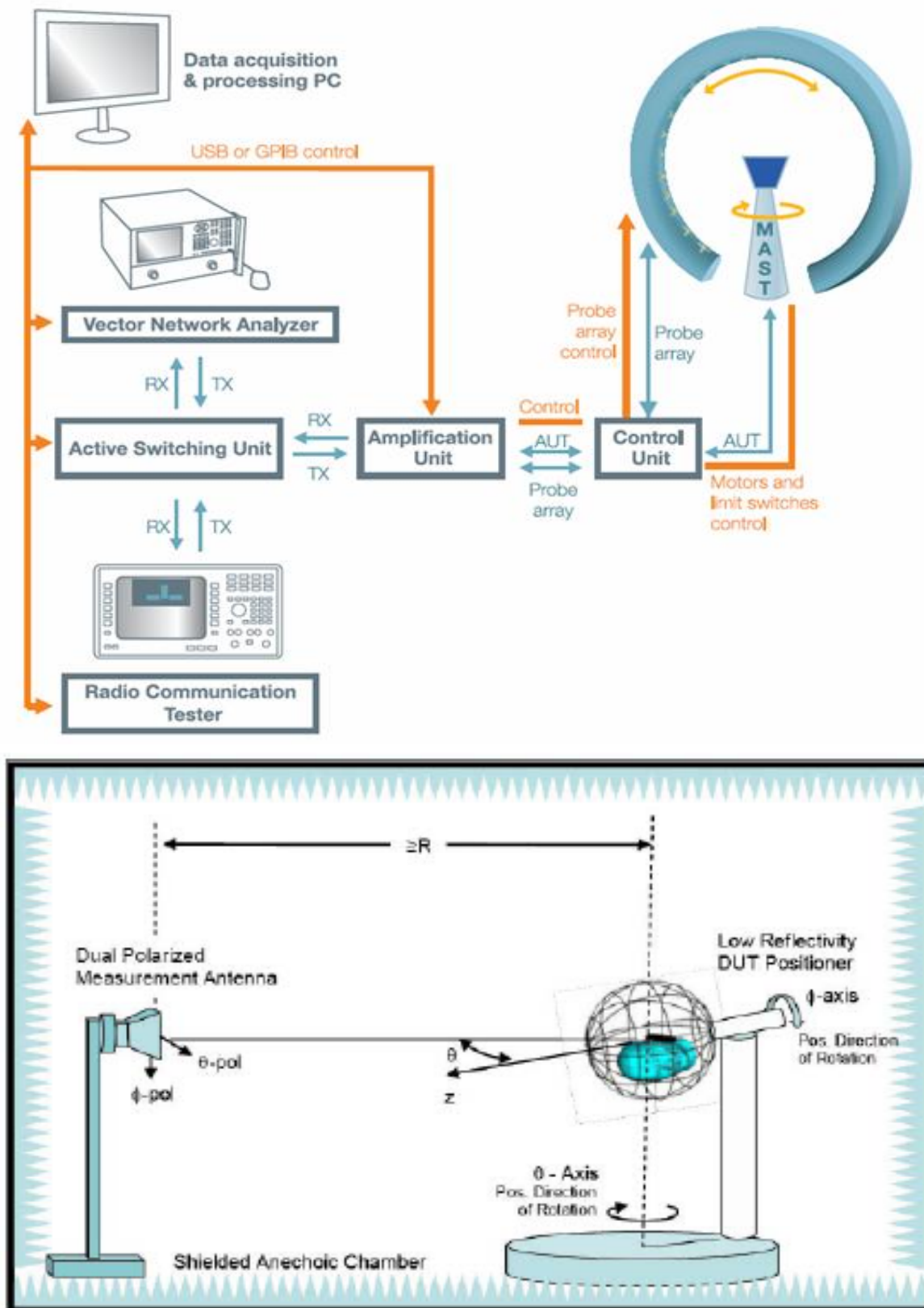
Agilent E5071C Network Analyzer



RF Antenna (Return Loss)



Setup



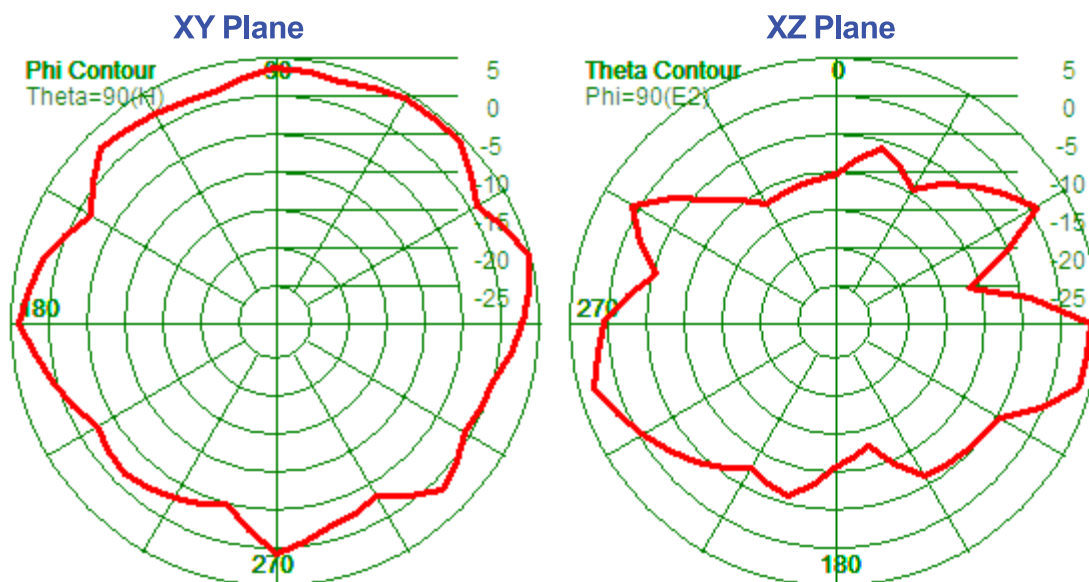
Test

Efficiency

Test Point ID	Freq. (MHz)	TRP (dBm)	Gain (dBi)	Directivity (dBi)	Efficiency (dB)	Efficiency (%)	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	5150.0	5150.00	4.54	6.08	70.1%	-1.54	4.54	90	15	-18.88	135	345	-2.79	23.42	7.33	-16.09
2	5250.0	5250.00	4.82	6.21	72.6%	-1.39	4.82	90	180	-21.45	165	30	-3.06	26.27	7.89	-18.39
3	5350.0	5350.00	4.83	6.49	68.1%	-1.67	4.83	90	135	-21.17	75	150	-4.10	26.00	8.93	-17.07
4	5450.0	5450.00	5.20	6.68	71.0%	-1.49	5.20	90	45	-24.14	165	180	-3.70	29.33	8.90	-20.43
5	5550.0	5550.00	5.44	6.93	71.0%	-1.48	5.44	90	45	-22.74	165	195	-3.46	28.18	8.91	-19.27
6	5650.0	5650.00	5.78	7.44	68.1%	-1.67	5.78	90	180	-21.46	15	270	-3.69	27.24	9.46	-17.78
7	5750.0	5750.00	5.67	7.22	70.1%	-1.54	5.67	90	180	-21.57	165	0	-3.69	27.24	9.36	-17.88
8	5850.0	5850.00	5.92	7.58	68.2%	-1.66	5.92	90	180	-23.29	180	105	-3.61	29.21	9.53	-19.68
9	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Patten

1.3 2D Radiation patterns test results (Passive Antenna)



1.5 3D Radiation patterns test results (Passive Antenna)

3D

