

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

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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

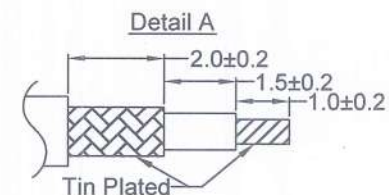
Spec Item

NO.	Project	Remark	Page
1	Spec Cover		1
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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.

Technical drawing of a probe. The drawing shows a long, thin probe with a rounded tip. The total length is 188 ± 2 mm. The diameter of the handle is 9.56 mm. The probe is divided into several sections: a handle (1), a connector (2), a sleeve (3), and a probe tip (4). The probe tip is shown in two views: a side view and a cross-sectional view labeled 'A'. The distance from the end of the handle to the start of the probe tip is 70 ± 3 mm.



外箱贴附ROHS标签与物料标签各1PCS

SLEing® DONGGUAN SLEing INTEL-TECH CO.,LTD			CUSTOMER			
			PART NO			
			TITLE		RF ANTENNA	
			S.L P/NO		SLEingA200330070-C05	
	TOLERANCE UNLESS OTHERWISE SPECIFIED		SIZE	DRAWED	CHECKED	APPROVED
UNIT:mm	ANGLES ±0.5°	X. ±0.3	A4	Jerry	2024.02.05	Jerry
SHEET: 1/1	.XX ±0.05	XX. ±0.5			Jerry	
SCALE: 1/1		XXX. ±2.0			Jockey	

Test Reports

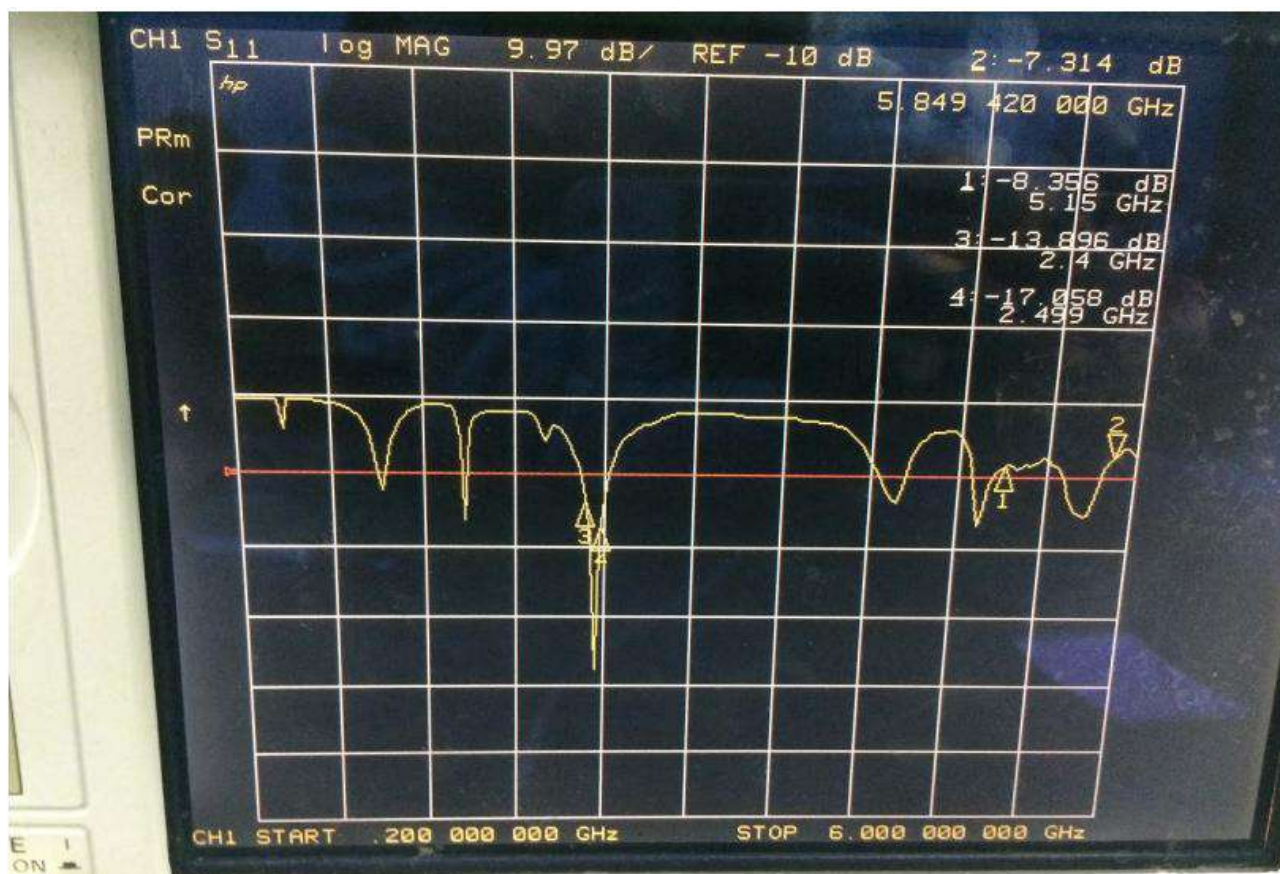
Electrical Properties	
Frequency	2.4-2.5GHz
Impedance	50 Ohm Nominal
V.S.W.R	≤ 1.92
Return Loss	-10dB Max
Radiation	Omni-directional
Gain	5 ± 1 dBi
Polarization	Linear, Vertical
Admitted Power	2 W
Connector	Tin
Physical Properties	
Antenna Material	TPEE/PC/POM
Cable Type	$\Phi 1.13$ mm Dark Grey
Operating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

S Parameter Test

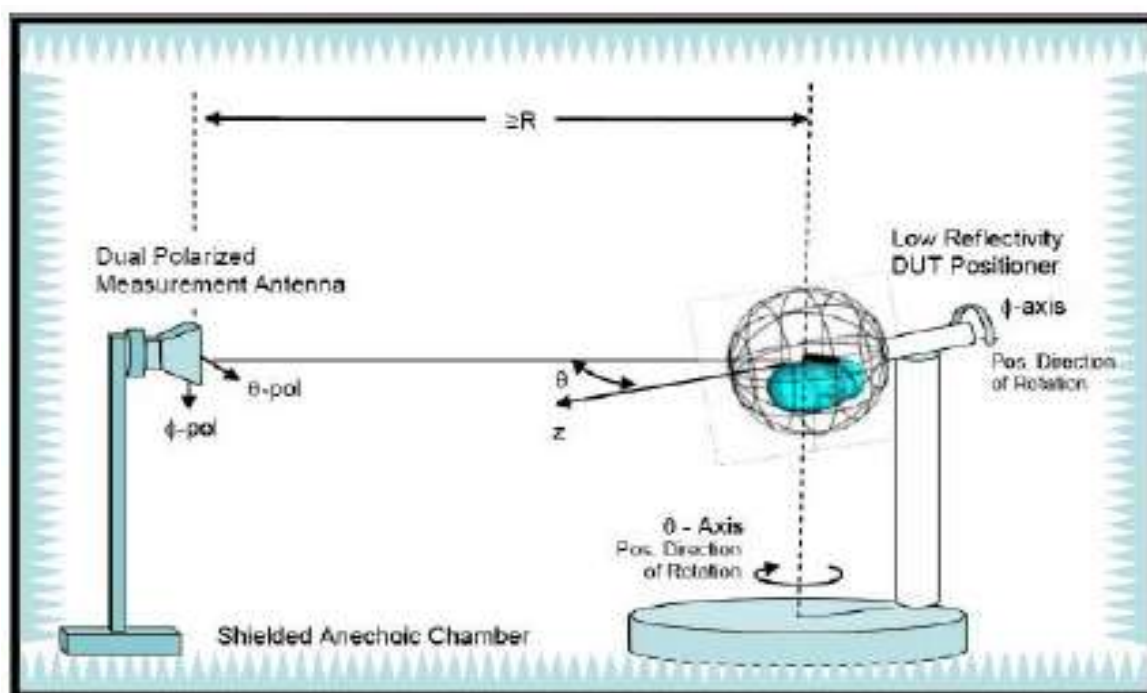
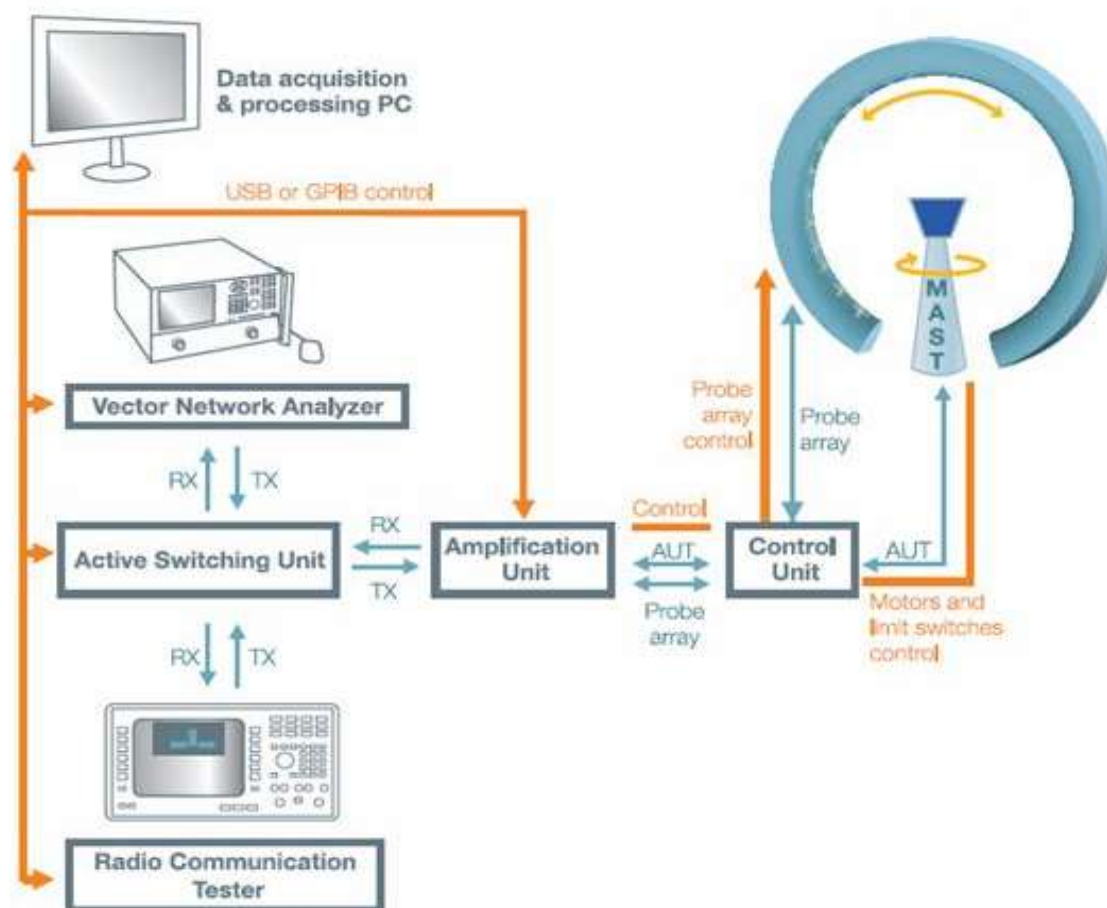
Agilent E5071C Network Analyzer



RF Antenna (Return Loss)



Setup

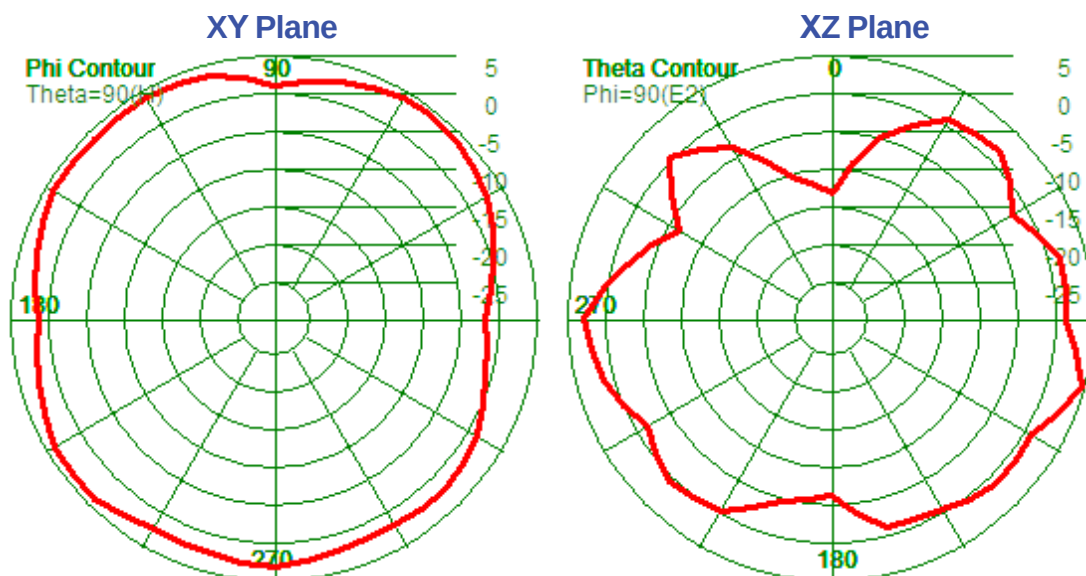


Efficiency

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

