

SPECIFICATION

Manufacturer:	Shanghai Imilab Technology Co., Ltd.
Address of Manufacturer:	Room 001A, Floor 11, Block 1, No. 588 Zixing Road, Minhang District, Shanghai, China

Antenna: B66 Dual-band Antenna: GDT; 3dB: Beige Flat: With Terminal: L=280mm

(Waterproof Ring Wie Diameter 1.2mm)

Product Specification

connection		frequency range	2400-2500MHZ 5150-5800MHZ
Frequency band wire name		edition	A1
Customer part number	3. 26. 003. 100001V	part number	
No			
R F design	XIAO	RF Manager	LILI
Structural design	WAN	Structure Manager	HUAN
Technical Director	ADD	Date	2026-04-24

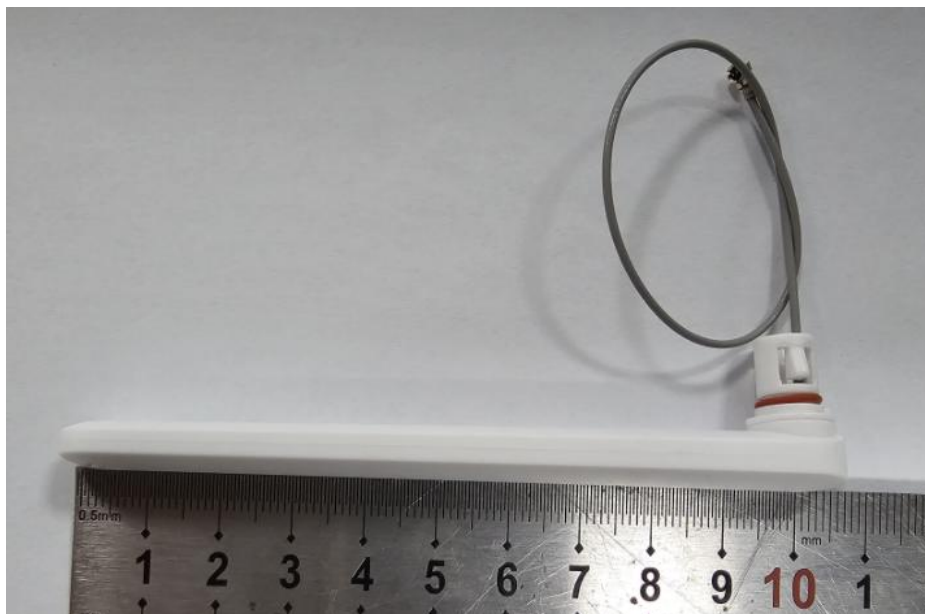
Customer confirmation:

Does the assembly meet your company's requirements: ☐OK ☐NG

catalogue

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一、 Product pictures



二、 Product parameters

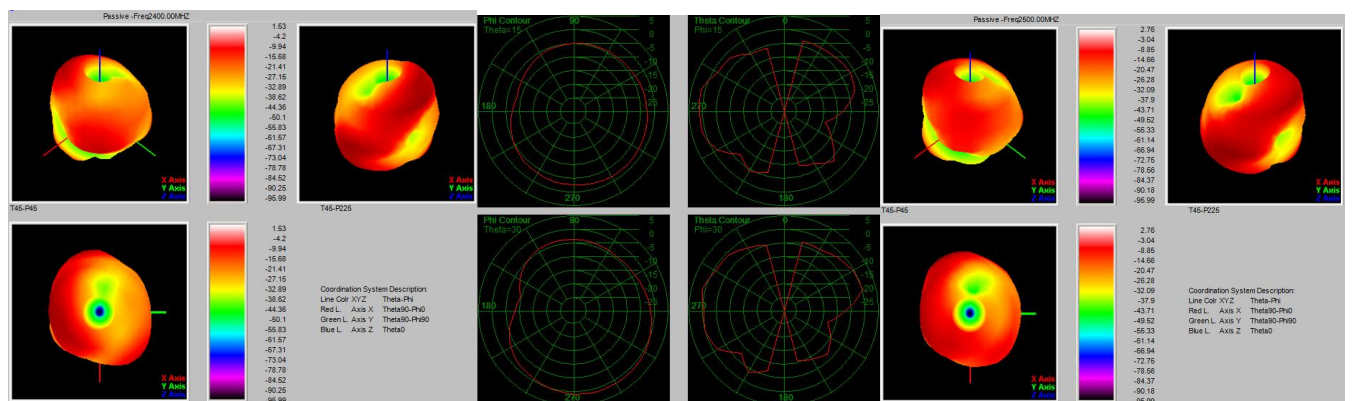
Product testing parameters			
Product name	2.4G/5.8G Antenna	(Model Type)	
(Electrical Specifications)			
(Frenquency Range)	2400MHZ-2500MHZ 5150MHZ-5800MHZ	(Polarization)	perpendicular
(Impedance)	50Ω	Radiation	QXCOMM
(VSWR)	≤2.0	(Power)	50W
(Gain)	3dBi	(Bandwidth	100M
(Mechanical Specifications)			
(Dimensions)	104.7*12.8-+0.3mm	(Chassis Color)	white
(Connector)	IPEX	(Cable Length)	280-+3mm
(Chassis Material)	ABS	Wire color	1.13 white
(Working Temperature)	-40℃-+85℃	(Limit Temperature)	-40℃-+85℃

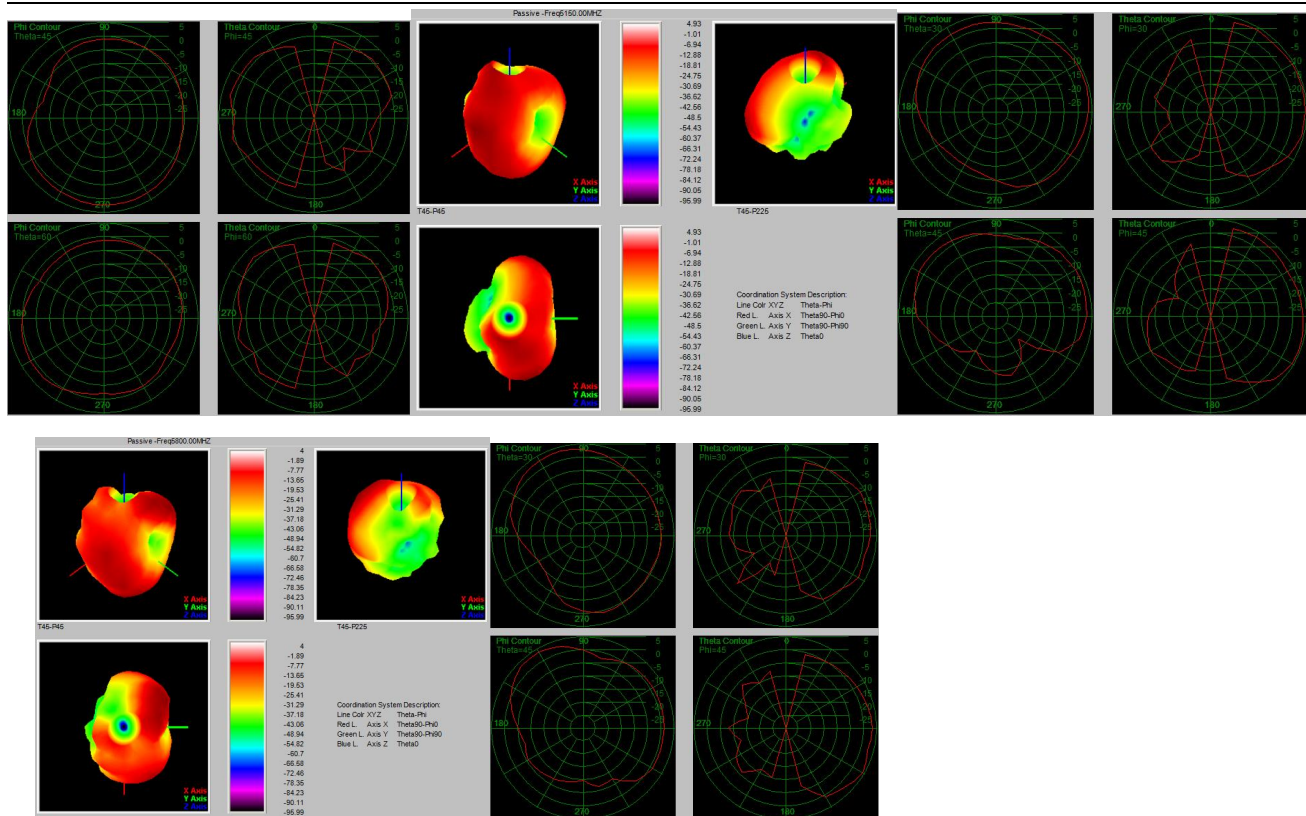
三、S11(VSWR、Return、Smith)



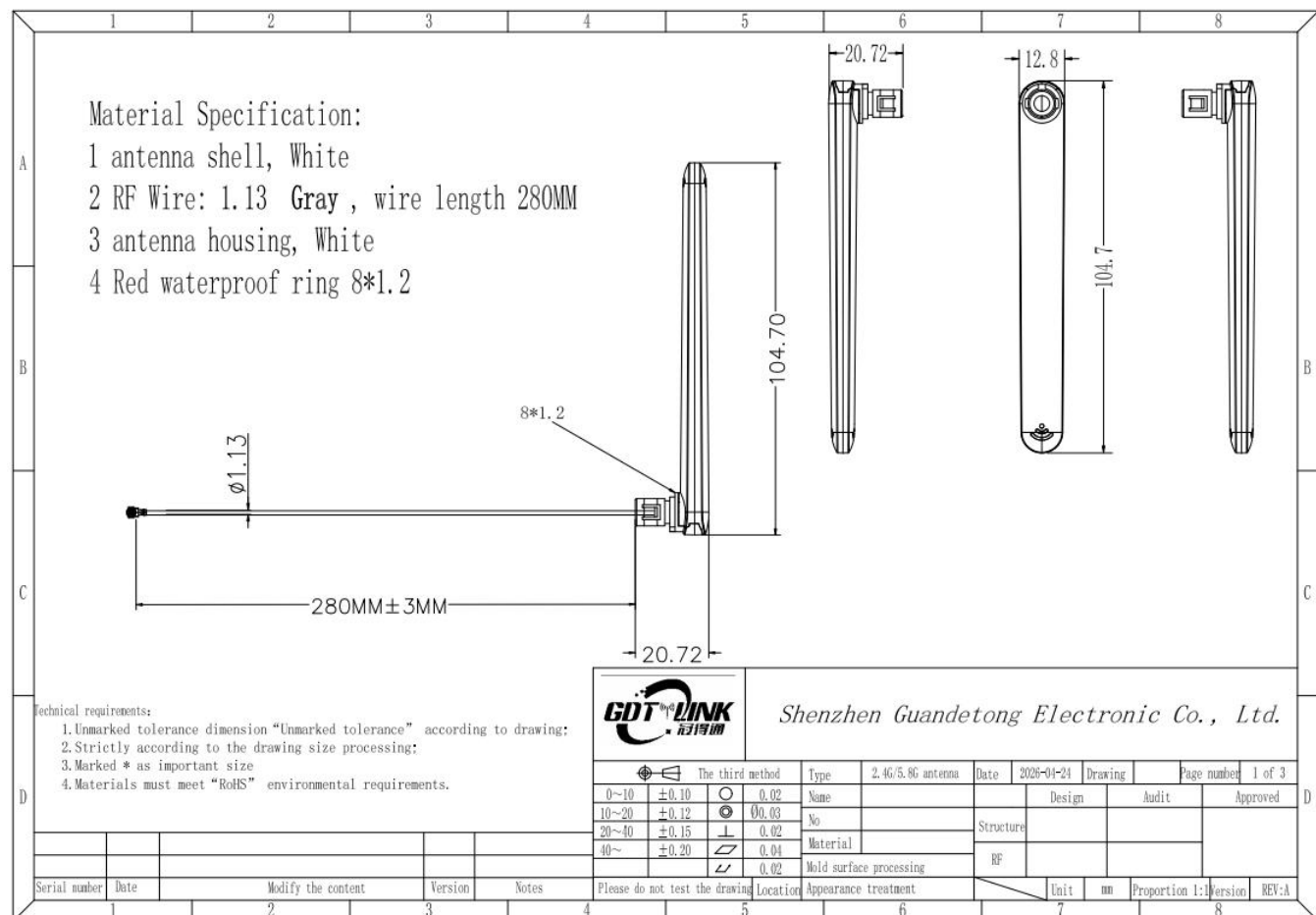
四、Antenna gain and efficiency&Apple in 3D

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	1.53	4.45	51.1%	-2.92	1.53	75	195	-95.99	0	0	-3.53	97.52	5.07	-92.46
2	2410.0	2410.00	1.71	4.51	52.5%	-2.80	1.71	75	195	-95.99	0	0	-3.42	97.70	5.13	-92.57
3	2420.0	2420.00	2.07	4.51	57.0%	-2.44	2.07	75	195	-95.99	0	0	-3.08	98.06	5.14	-92.91
4	2430.0	2430.00	2.28	4.60	58.5%	-2.33	2.28	90	180	-95.99	0	0	-2.96	98.27	5.24	-93.03
5	2440.0	2440.00	2.01	4.69	54.0%	-2.67	2.01	90	180	-95.99	0	0	-3.30	98.00	5.31	-92.69
6	2450.0	2450.00	2.29	4.73	56.9%	-2.45	2.29	90	180	-95.99	0	0	-3.06	98.28	5.34	-92.93
7	2460.0	2460.00	2.69	4.75	62.1%	-2.07	2.69	75	195	-95.99	0	0	-2.66	98.68	5.35	-93.33
8	2470.0	2470.00	2.77	4.81	62.5%	-2.04	2.77	75	195	-95.99	0	0	-2.62	98.76	5.39	-93.37
9	2480.0	2480.00	3.06	4.77	67.4%	-1.71	3.06	75	195	-95.99	0	0	-2.28	99.05	5.34	-93.71
10	2490.0	2490.00	2.72	4.68	63.7%	-1.96	2.72	75	210	-95.99	0	0	-2.52	98.71	5.24	-93.47
11	2500.0	2500.00	2.76	4.55	66.4%	-1.78	2.76	90	180	-95.99	0	0	-2.33	98.75	5.09	-93.66
12	5150.0	5150.00	4.93	5.77	82.5%	-0.83	4.93	6000	1500	-95.99	0	0	-1.20	100.92	6.14	-94.79
13	5200.0	5200.00	4.87	5.82	80.2%	-0.96	4.87	6000	1500	-95.99	0	0	-1.38	100.86	6.25	-94.61
14	5250.0	5250.00	4.07	5.99	64.2%	-1.93	4.07	10500	4500	-95.99	0	0	-2.40	100.06	6.47	-93.59
15	5300.0	5300.00	4.54	5.86	73.8%	-1.32	4.54	10500	4500	-95.99	0	0	-1.79	100.53	6.33	-94.20
16	5350.0	5350.00	4.40	5.97	69.6%	-1.58	4.40	10500	4500	-95.99	0	0	-2.04	100.39	6.43	-93.95
17	5400.0	5400.00	3.76	5.87	61.5%	-2.11	3.76	10500	4500	-95.99	0	0	-2.56	99.75	6.32	-93.43
18	5450.0	5450.00	4.18	5.82	68.5%	-1.65	4.18	10500	4500	-95.99	0	0	-2.13	100.17	6.31	-93.86
19	5500.0	5500.00	3.47	5.69	60.0%	-2.22	3.47	10500	4500	-95.99	0	0	-2.70	99.46	6.17	-93.29
20	5550.0	5550.00	3.11	5.43	58.6%	-2.32	3.11	13500	6000	-95.99	0	0	-2.80	99.10	5.91	-93.19
21	5600.0	5600.00	2.82	5.01	60.3%	-2.19	2.82	13500	6000	-95.99	0	0	-2.66	98.80	5.47	-93.33
22	5650.0	5650.00	1.51	3.95	56.9%	-2.45	1.51	13500	7500	-95.99	0	0	-2.93	97.49	4.44	-93.06
23	5700.0	5700.00	2.67	4.46	66.2%	-1.79	2.67	7500	3000	-95.99	0	0	-2.27	98.66	4.94	-93.72
24	5750.0	5750.00	2.96	4.93	63.6%	-1.97	2.96	4500	12000	-95.99	0	0	-2.38	98.95	5.34	-93.61
25	5800.0	5800.00	4.00	5.71	67.4%	-1.72	4.00	12000	4500	-95.99	0	0	-2.14	99.98	6.14	-93.85





五、Structural drawings



六、Environmental performance test

project	Project test conditions	Specifications
Storage environment	The test temperature, humidity and air pressure are as follows when there is no specific condition: 1. The temperature is $-30\text{ }^{\circ}\text{C}\sim+80\text{ }^{\circ}\text{C}$ 2. Relative humidity: 45% - 85% 3. The air pressure is 86kpa-106kpa	Normal electrical and mechanical performance
High and low temperature test	5 cycles between $70\text{ }^{\circ}\text{C}$ and $40\text{ }^{\circ}\text{C}$, then under normal conditions 1-2H, check the appearance quality.	The size shall meet the requirements and Mechanical and electrical performance
Constant damp heat resistance test	Relative humidity: $95\pm 3\%$, test temperature: $40\text{ }^{\circ}\text{C}$. After lasting for 2h, The electrical performance shall be measured within 5 minutes after the test object is taken out, and the test object shall be within the normal range Part 1-2H, check the appearance quality	The size shall meet the requirements and Mechanical and electrical performance
vibration test	Vibration frequency range: 10-55HZ, displacement amplitude: 0.35MM, acceleration amplitude: 50.0M/s, frequency sweep cycles: 30 times	Normal electrical and mechanical performance
Drop test	Free fall for 3 times in the direction of mutually perpendicular axes at a height of 1M	Normal electrical and mechanical performance