

SPECIFICATION

Shenzhen Guandetong Electronic Limited



Shenzhen Guandetong Electronics Co., Ltd.

2.4G(2DB) pure white small buckle antenna with terminal product specification sheet

Guest		Frequency segment	2400MHz——2500MHz
Wire name		Banben	A1
Customer item number		De tong Liao Hao	
Guantong number			
R design	Xiao bin	Radio frequency manager	Liang Liu
structural design	Dong Wang	Structure manager	Wang Hua
technical director	Ye dingku n	Day period	2022-12-16

Customer

Whether the assembly meets ☐NG

catalogue

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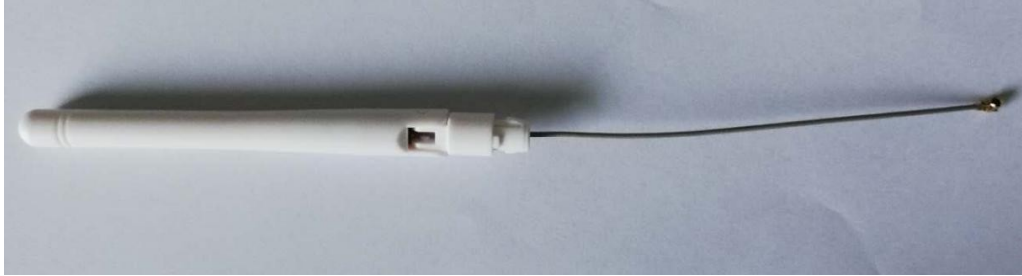
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保 密 要 求

本公司已拥有专有技术所提供的资料，这些专有资料应严加保密，在未经深圳冠得通电子有限公司事先书面同意的时不允许透露给任何人或公司。

I. Product pictures



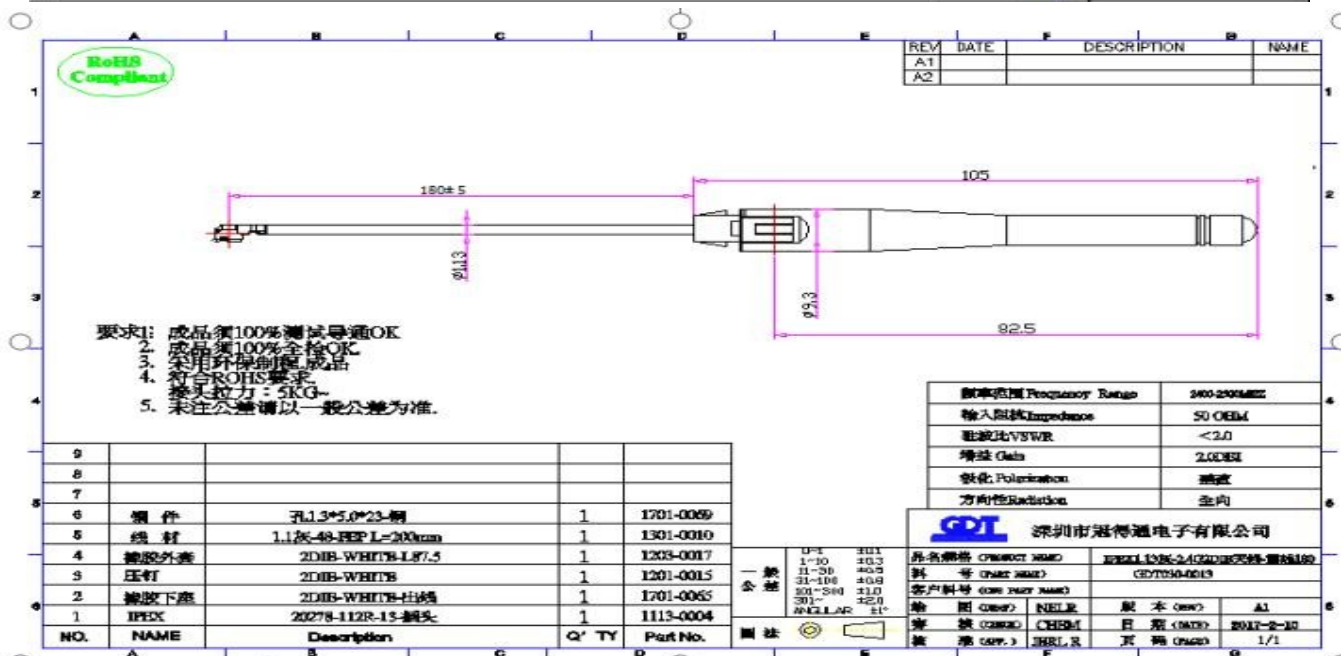
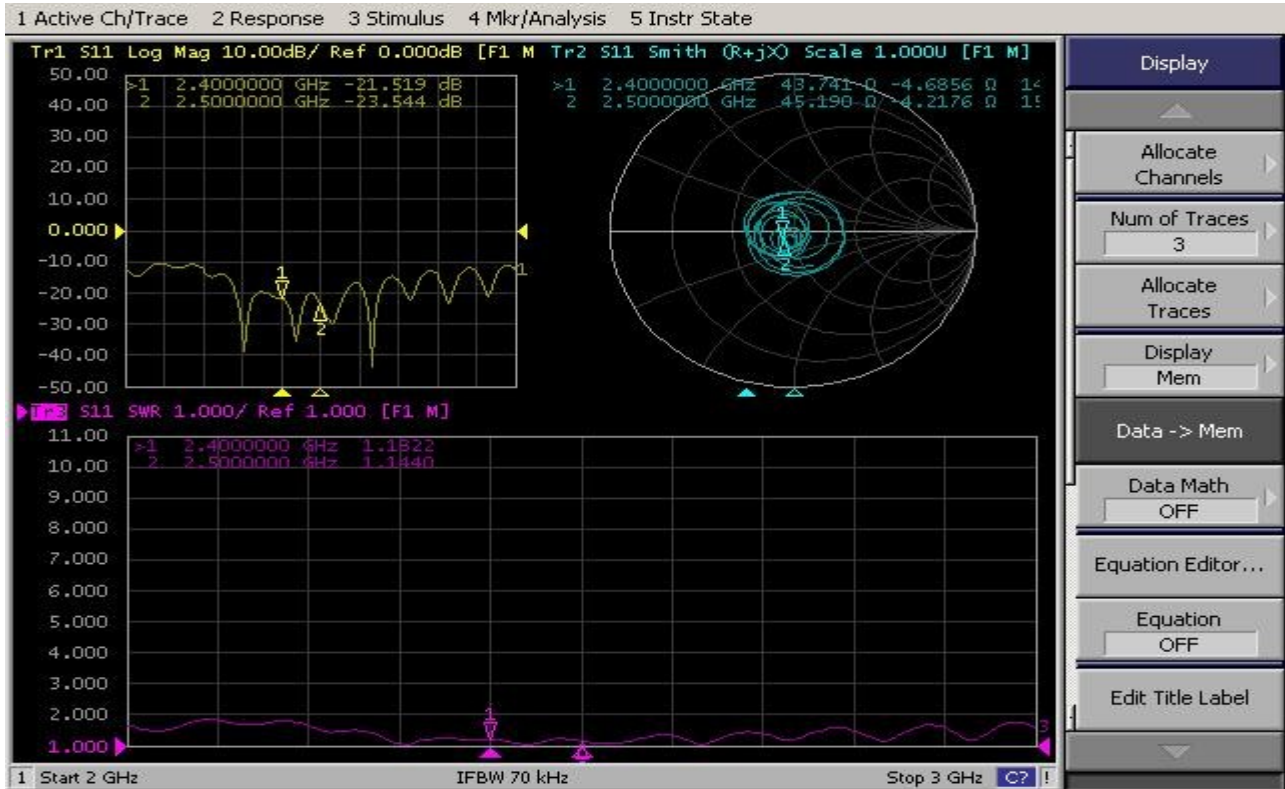
II. the product parameters

Product test parameters			
Product Name (name)	2.4G glue stick antenna	The Model Type of the product.	GDT-2.4G/1553
Electrical Specifications (electrical specifications)			
The frequency range (Frenquency Range)	2400MHz——2500MHz	Polarization (polarization)	perpendicular/vertical
Input Impedance (impedance)	50 Ω	radiation direction	omnidirection
Standing wave ratio (VSWR)	≤ 2.0	Power (power)	50W
Gain (gain)	2.38dBi	Bandwidth (bandwidth)	100MHz
Mechanical Specifications (mechanical specifications)			
Dimensions (dimensions)	108 $\pm$ 3mm	Color of shell (Radome Color)	white
Type of Connector (connector)	IPEX terminal	Cable Length of the cable.	180 $\pm$ 3mm
Material Radome Material	ABS		
Working temperature (Working Temperature)	-40°C-+85°C	Storage temperature (Limit Temperature)	-40°C-+85°C

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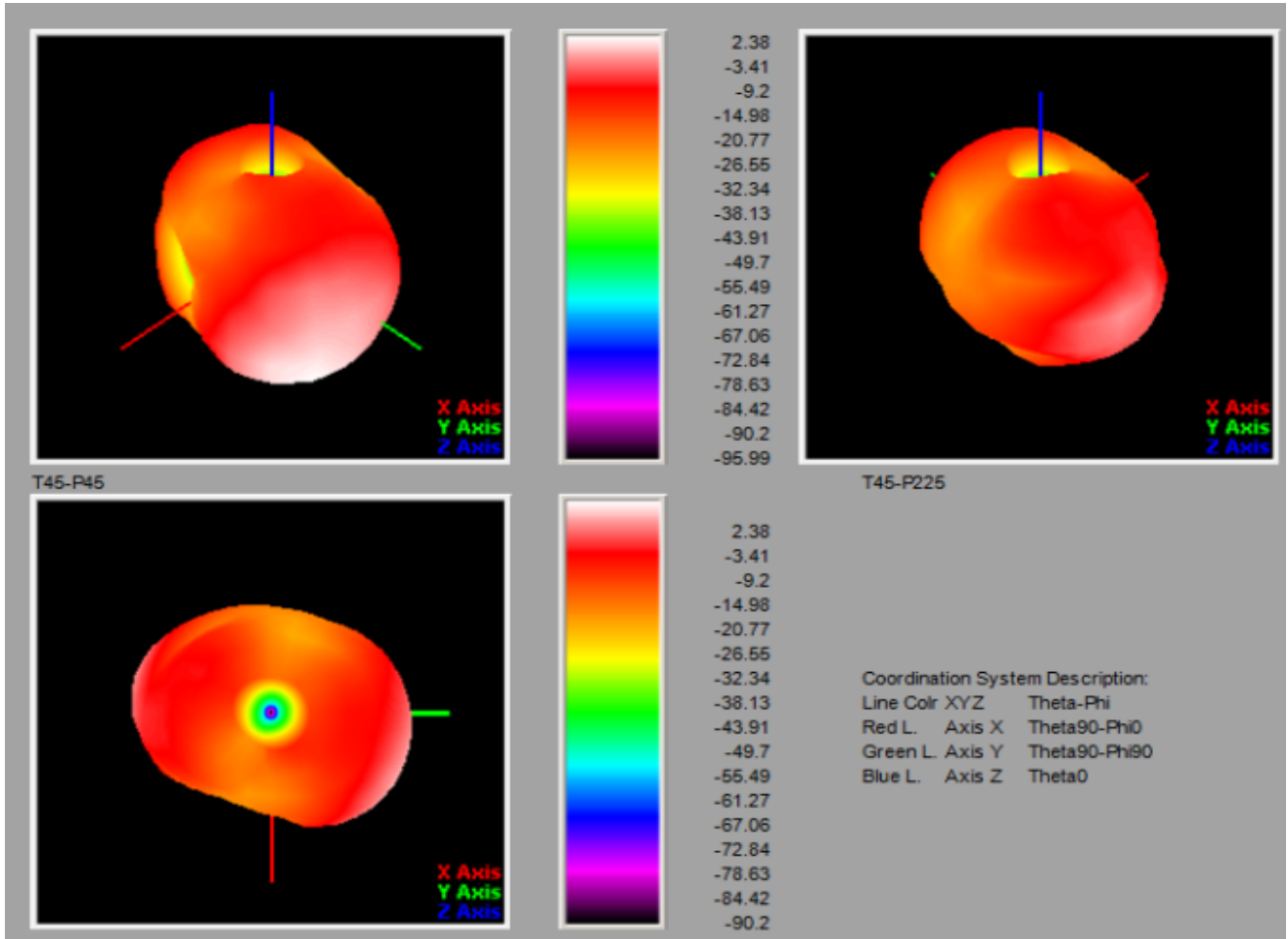
III. S11(VSWR, Return loss, Smith) data



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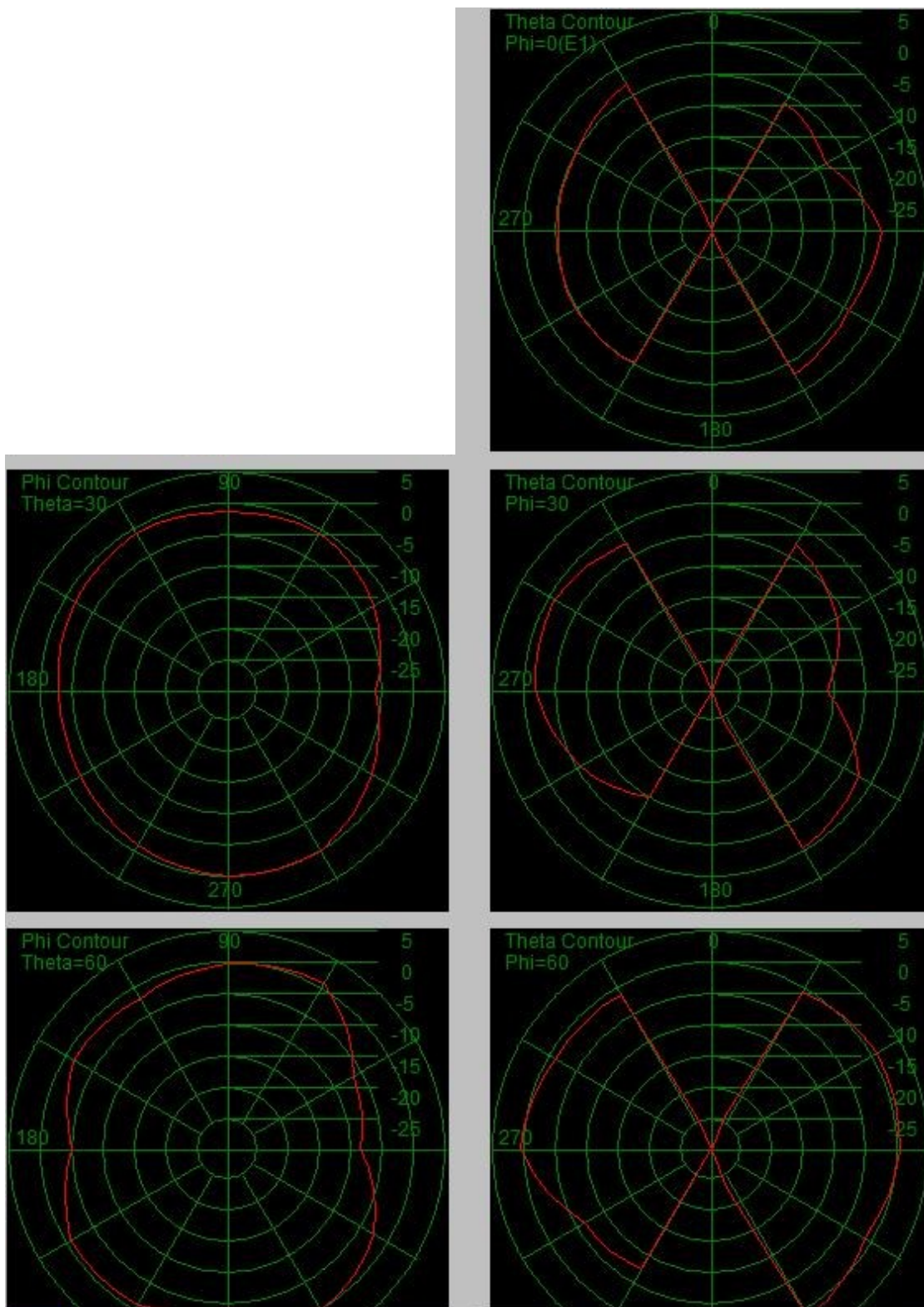
IV. Apple pictures and Direction pictures



Test Point ID	Freq. (MHz)	TRP (MHz)	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	1.05	5.20	38.5%	-4.15	1.05	90	60	-95.99	0	0	-4.31	97.04	5.35	-91.68
2	2410.0	2410.00	1.26	5.39	38.6%	-4.14	1.26	90	60	-95.99	0	0	-4.11	97.25	5.36	-91.88
3	2420.0	2420.00	1.60	5.58	40.0%	-3.98	1.60	90	60	-95.99	0	0	-3.73	97.59	5.32	-92.26
4	2430.0	2430.00	2.12	5.66	44.2%	-3.54	2.12	90	60	-95.99	0	0	-3.17	98.11	5.29	-92.82
5	2440.0	2440.00	1.86	5.59	42.3%	-3.73	1.86	90	60	-95.99	0	0	-3.46	97.85	5.32	-92.53
6	2450.0	2450.00	2.03	5.68	43.1%	-3.66	2.03	105	60	-95.99	0	0	-3.42	98.02	5.45	-92.57
7	2460.0	2460.00	2.33	5.84	44.6%	-3.51	2.33	105	60	-95.99	0	0	-3.32	98.32	5.65	-92.67
8	2470.0	2470.00	2.38	5.74	46.1%	-3.36	2.38	105	60	-95.99	0	0	-3.41	98.37	5.79	-92.58
9	2480.0	2480.00	2.08	5.36	46.9%	-3.29	2.08	105	60	-95.99	0	0	-3.74	98.07	5.81	-92.25
10	2490.0	2490.00	1.77	5.23	45.1%	-3.46	1.77	105	60	-95.99	0	0	-4.01	97.76	5.78	-91.98
11	2500.0	2500.00	1.75	5.14	45.8%	-3.39	1.75	105	60	-95.99	0	0	-4.00	97.74	5.75	-91.99

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V. Environmental performance test

project	test condition	specifications
Storage environment	Test the temperature, humidity, and air pressure as follows if not specified: 1. The temperature is -30°C ~ +80°C 2. The relative humidity is 45%-85% 3. The air pressure is 86-106 kPa	Electrical and mechanical properties are normal.
thermocycling	Circulate 5 times between 70°C and 40°C, and then check the appearance quality under normal conditions for 1-2H.	The dimensions shall meet the requirements and shall meet the requirements. Mechanical and electrical properties
Constant damp-heat resistance test	The relative humidity is 95.3%, and the test temperature is 40°C. After 2 hours of action, the electrical properties of the sample are measured with 5 minutes after it is taken out, and the sample is in the normal state. 1-2H, check the appearance quality.	The dimensions shall meet the requirements and shall meet the requirements. Mechanical and electrical properties
vibration test	The vibration frequency range is 10-55HZ, the displacement amplitude is 0.35MM, the acceleration amplitude is 50.0M/S, and the frequency sweeping cycles are 30 times.	Electrical and mechanical properties are normal.
drop test	The height of 1M is free to fall three times according to the axis directions perpendicular to each other.	Electrical and mechanical properties are normal.