

# SPECIFICATION

Shenzhen Guandetong Electronic Limited



**Shenzhen Guandetong Electronics Co., LTD**

2.4G (2.38DB) pure white antenna with small buckle terminals

## Product specification book

<b>Guest household</b>		<b>Frequency segment</b>	2400MHz——2500MHz
<b>Name of wire</b>		<b>Edition</b>	<b>A1</b>
<b>Customer part number</b>		<b>Crown pass material number</b>	
<b>Guandetong number</b>			
<b>R F design</b>	Xiao Bin	<b>Rf manager</b>	Liu Liang
<b>Structural design</b>	Wang Dong	<b>Structure manager</b>	Wang Hua
<b>Technical director</b>	Ye Dingkun	<b>Day period</b>	2022-12-16

Customer confirmation:

Whether the assembly meets your company's requirements: OK NG

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### 一、 Product picture



### 二、 Product parameter

Product test parameter			
Product name(Name)	2.4G Glue stick antenna	产品型号(Model Type)	GDT-2.4G/1553
电 性 能 指 标 (Electrical Specifications)			
频率范围 (Frequency Range)	2400MHz—2500MHz	极化方式 (Polarization)	perpendicularity
输入阻抗(Impedance)	50 Ω	Radiation direction	omnidirectional
驻波比 (VSWR)	≤2.0	功率容量(Power)	50W
增益(Gain)	2.38dBi	带宽 (Bandwidth)	100MHz
机 械 指 标 (Mechanical Specifications)			
尺寸 (Dimensions)	108 ±3mm	外壳颜色(Radome Color)	白色
连接器型号 (Connector)	IPEX 端子	引线长度(Cable Length)	180±3mm
外壳材料 Radome Material	ABS		
工作温度 (Working Temperature)	-40°C-+85°C	存放温度 (Limit Temperature)	-40°C-+85°C

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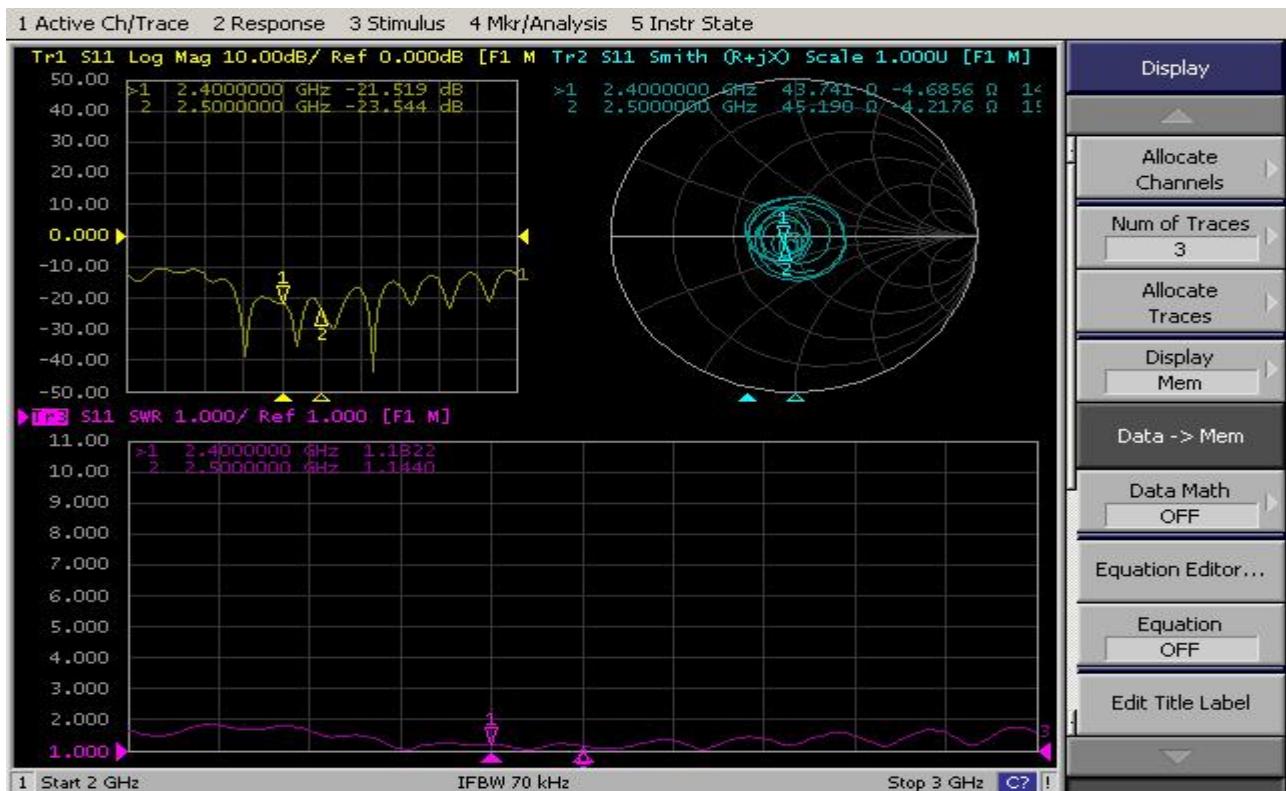
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### 三、 S11 ( VSWR 、 Return loss 、 Smith) data



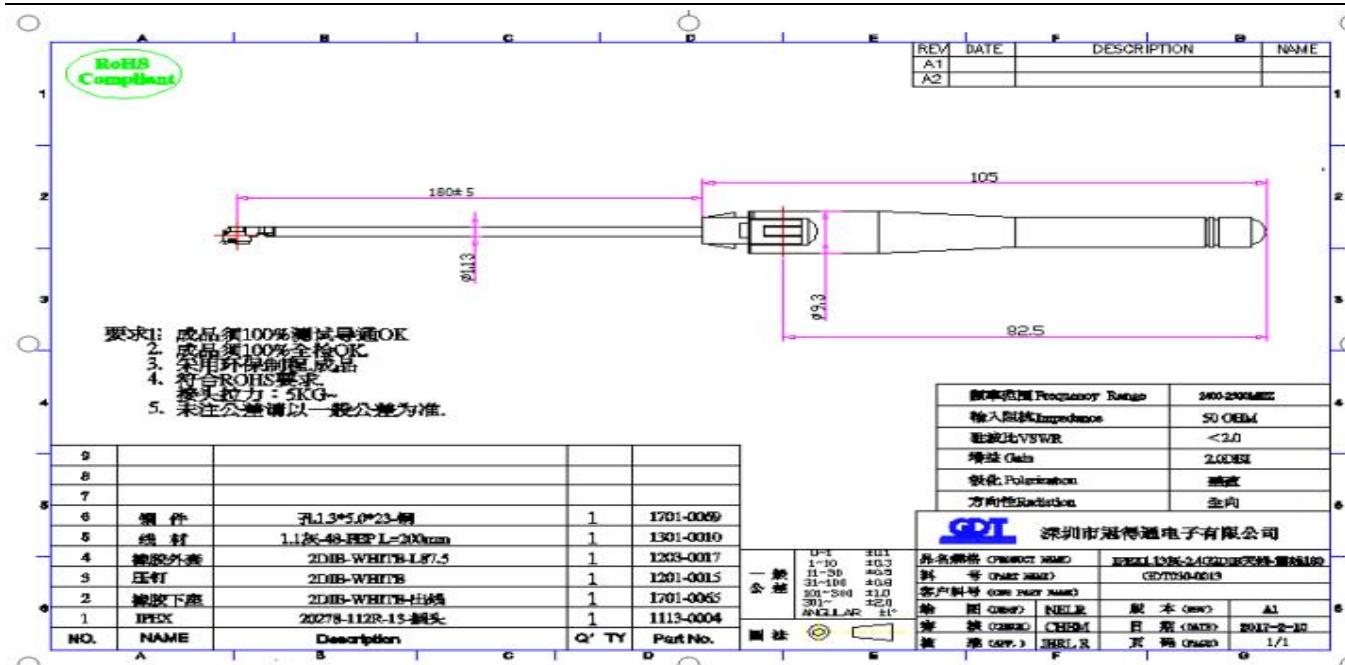
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#### 四、 Apple chart, direction chart

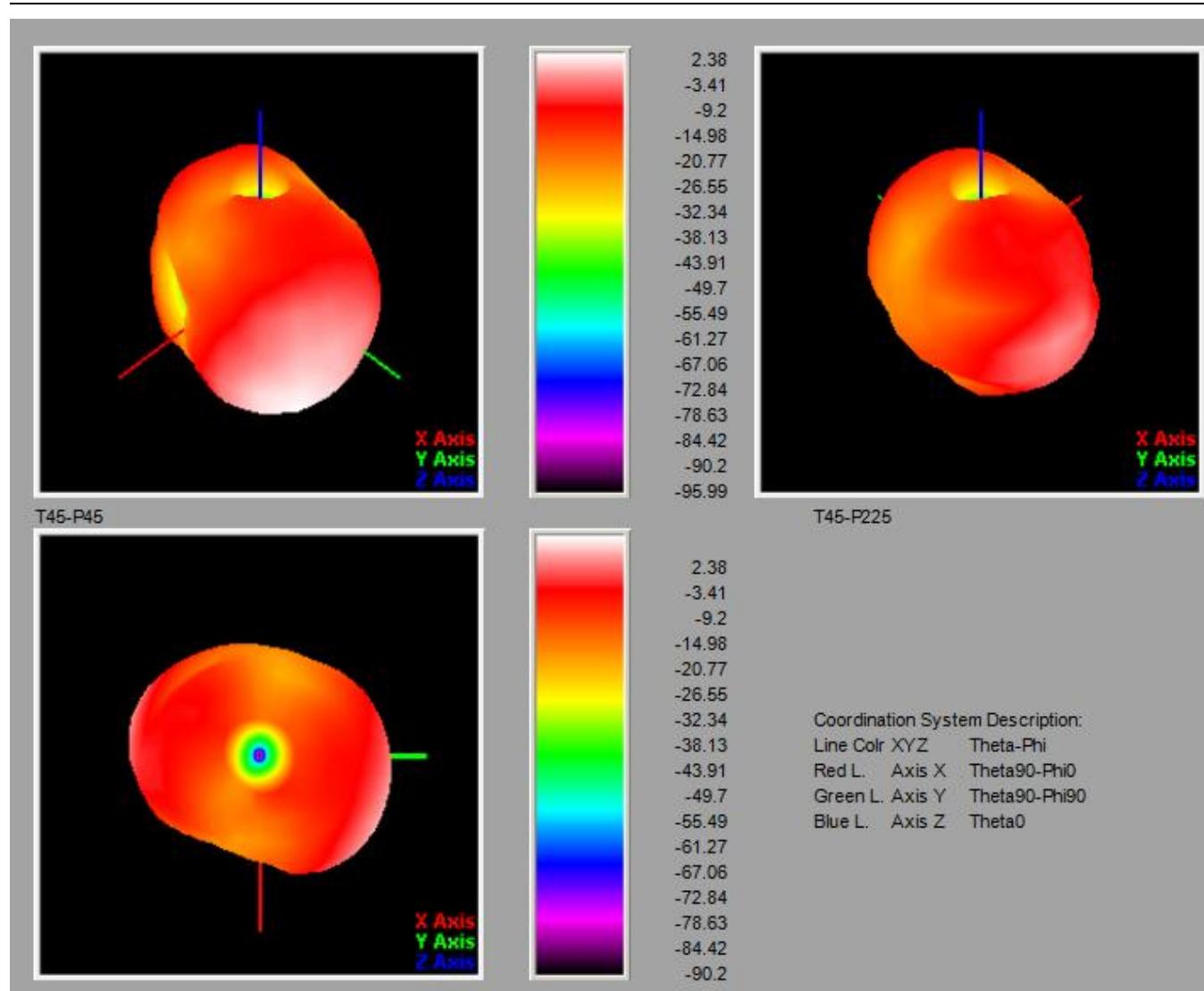
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Test Point ID	Freq. (MHz)	TRP (dBm)	Gain (dBi)	Directivity (dB)	Efficiency (%)	Efficiency (dB)	Max (dBm)	Theta of Max	Phi of Max	Min (dBm)	Theta of Min	Phi of Min	Avg (dBm)	Max/Min (dB)	Max/Avg (dB)	Min/Avg (dB)
1	2400.0	2400.00	1.05	5.20	38.5%	-4.15	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

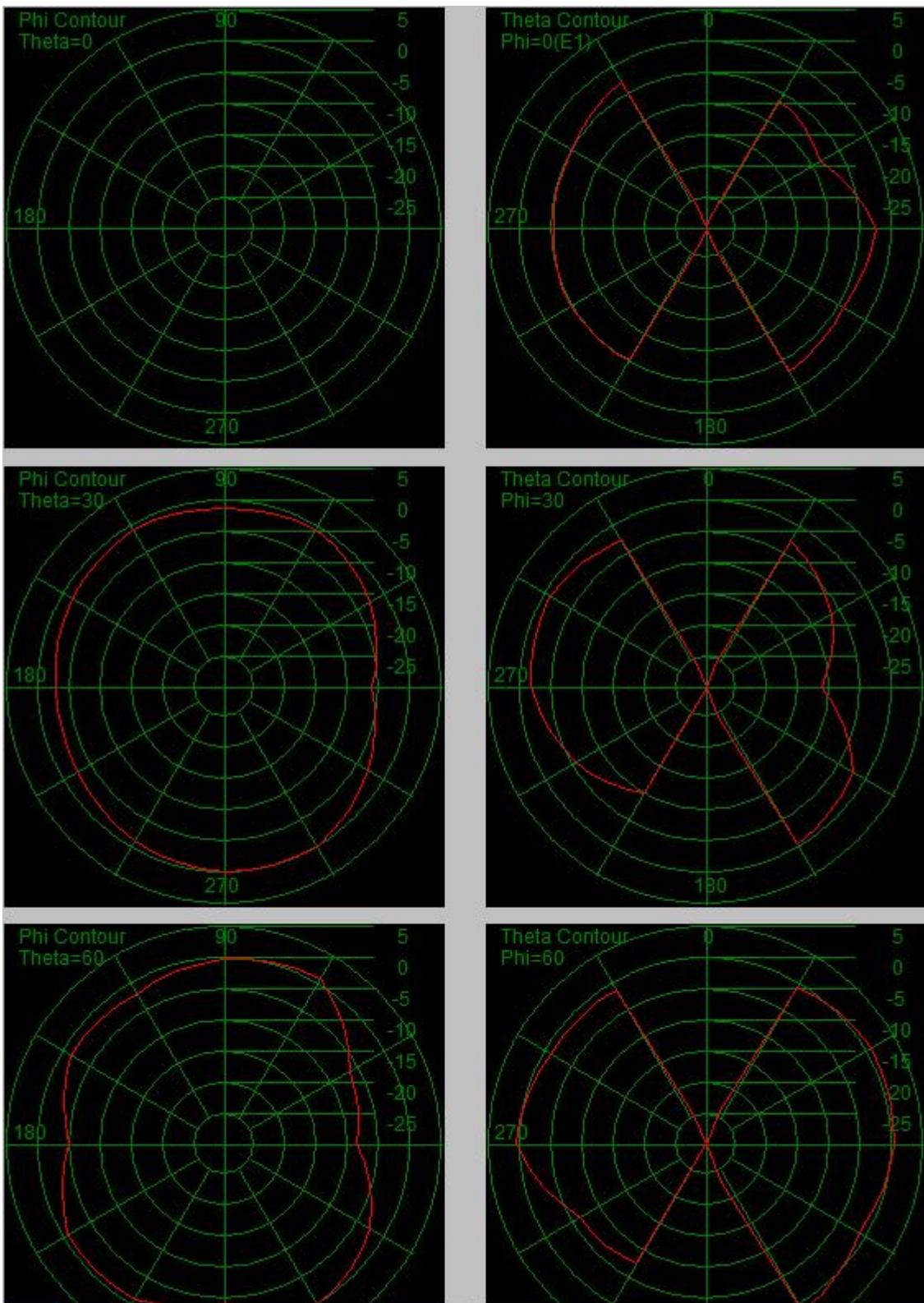
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## 五、Environmental performance test

项目 (Project)	测试条件 (Test conditions)	规格 (Specifications)
储存环境 (Storage environment)	<p>在没有指定的情况下测试温度、湿度、气压如下:</p> <ol style="list-style-type: none"> <li>1. 温度为-30℃ ~ +80℃</li> <li>2. 相对湿度为45%~85%</li> <li>3. 气压为86kpa~106kpa</li> </ol> <p>(Test temperature, humidity, and air pressure without specifying as follows:</p> <ol style="list-style-type: none"> <li>1. The temperature ranges from -30 °C to +80 °C</li> <li>2. Relative humidity is 45% ~ 85%</li> <li>3. The air pressure ranges from 86kpa to 16kpa)</li> </ol>	电气机械性能正常 (Normal electrical and mechanical performance)
高低温试验 (High and low temperature test)	<p>在70℃与40℃之间进行5次循环, 然后在正常条件下1-2H, 检查外观质量。</p> <p>(Perform 5 cycles between 70 °C and 40 °C, and then inspect the appearance quality under normal conditions for 1-2 hours.)</p>	尺寸应满足规定并应 满足 于机械、电气性能 (The size should meet the requirements and meet the mechanical and electrical performance.)
耐恒定湿热 试验 (Constant humidity and heat resistance test)	<p>相对湿度95±3%, 试验温度: 40℃. 持续2H作用后, 试品取出后5min之内测定电气性能, 试品在正常条件下1-2H, 检查外观质量</p> <p>(Relative humidity 95 ± 3%, test temperature: 40 °C. After 2 hours of continuous exposure, the electrical performance of the sample should be measured within 5 minutes after removal. The sample should be tested for 1-2 hours under normal conditions, and the appearance quality should be checked)</p>	尺寸应满足规定并应 满足 于机械、电气性能 (The size should meet the requirements and meet the mechanical and electrical performance)
振动试验 (Vibration test)	<p>振频范围10~55HZ, 位移幅值: 0.35MM, 加速度幅值: 50.0M/S, 扫频循环次数: 30次</p> <p>(Vibration frequency range 10~55HZ, displacement amplitude: 0.35MM, acceleration amplitude: 50.0M/s, frequency sweep cycle times: 30 times)</p>	电气机械性能正常 (Normal electrical and mechanical performance)
跌落试验 (Drop test)	<p>1M高空按照互相垂直的轴方向自由跌落3次</p> <p>(Free fall 3 times from a height of 1M along mutually perpendicular axes)</p>	电气机械性能正常 (Normal electrical and mechanical performance)

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