

SPECIFICATION



Shenzhen Guandetong Electronic Limited

2.4G/5.8G FPC天线 (1.13线灰*150MM) **Product specification**

Customers		Frequency	2400MHz—2500MHz 5150MHz—5800MHz
Name of wire rod		Version	A1
Customer data		GuandetongNo	
GuandetongNo			
R FDesign	肖彬	RF manager	刘亮
Structural design	王栋	Structure manager	王华
Technical Director	ANDY	Date	2023-11-07

Customer confirmation:

Whether the Assembly meets your requirements: ☐OK ☐NG

catalogue

Cover	1
catalogue.....	2
一、Product pictures	3
二、Product parameters	3
三、S11(VSWR、Return、Smith)	4
四、Antenna gain and efficiency.....	4
五、Apple chart.....	5
六、Structural drawings.....	6
七、Environmental performance test.....	6- 7

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。

一、Product pictures

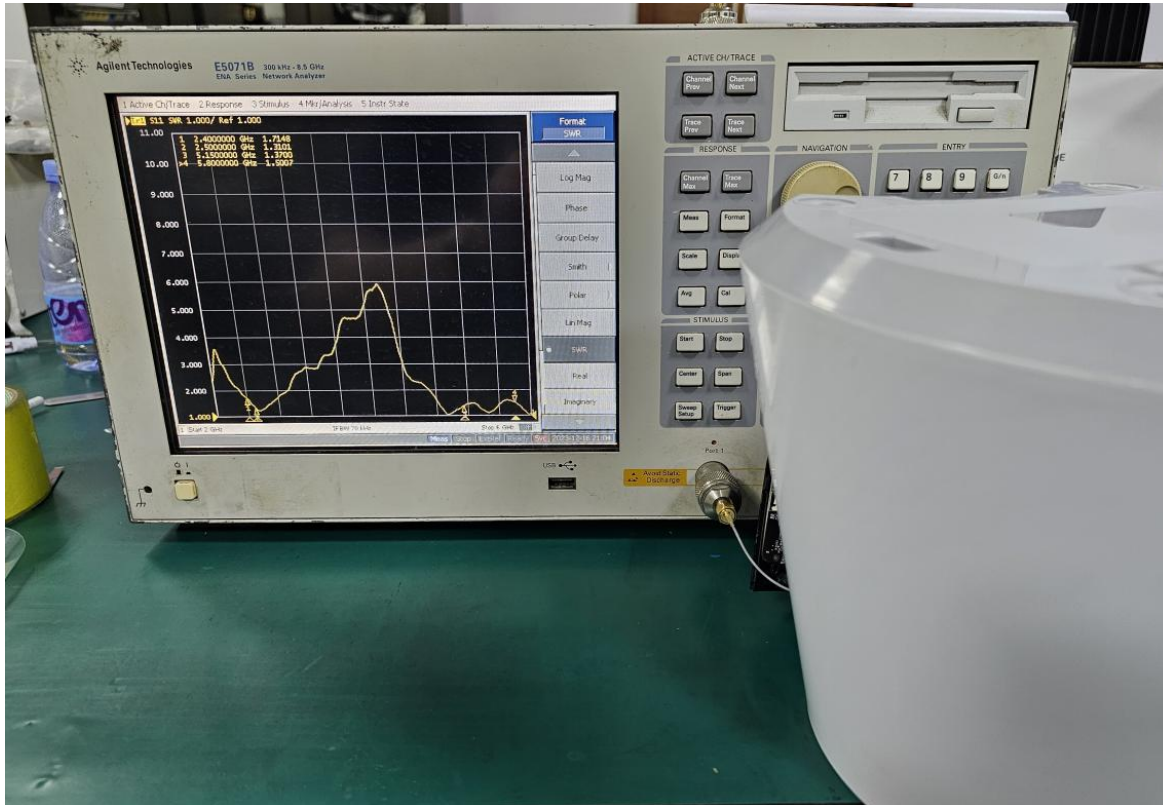


二、Product parameters

Product test parameters			
(Name)	2.4 g/5.8G antenna	(Model Type)	
(Electrical Specifications)			
(Frequency Range)	2400-2500MHZ 5150-5800MHZ	(Polarization)	perpendicular
(Impedance)	50 欧	Radiation	QXCOMM
(VSWR)	≤ 2.0	(Power)	50W
(Gain)	2.4G: 3.42dBi 5.1G: 2.96dBi	(Bandwidth)	100M
(Mechanical Specifications)			
(Copper tube dimensions)	36*12 $\pm$ 2mm	(Chassis Color)	black
(Connector)	IPEX	(Cable Length)	150 $\pm$ 2mm
(Wire)	1.13 Gray		
(Working Temperature)	-40℃~+85℃	(Limit Temperature)	-40℃~+85℃

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三、S11 (VSWR/Return/Smith



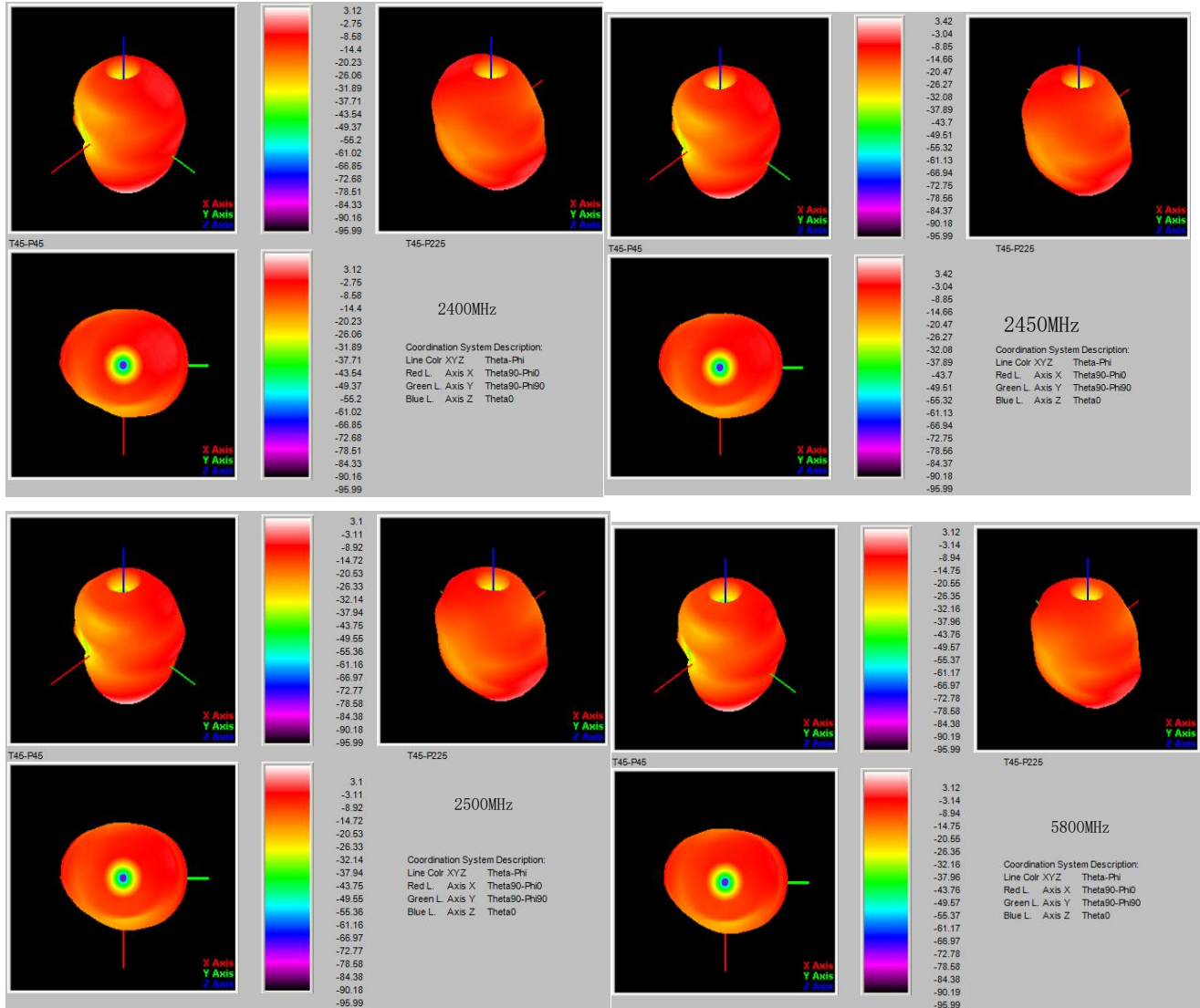
四、Antenna gain and efficiency

天线无源数据			天线无源数据		
频点(MHz)	效率(%)	增益(Gain)	频点(MHz)	效率(%)	增益(Gain)
2400	47.5%	3.12	5200	47.3%	2.96
2410	48.1%	3.25	5300	46.2%	2.92
2420	48.9%	3.28	5400	46.5%	2.87
2430	49.3%	3.32	5500	49.4%	2.95
2440	49.8%	3.35	5600	48.8%	3.25
2450	51.4%	3.42	5700	47.5%	3.18
2460	50.9%	3.36	5800	48.3%	3.12
2470	49.7%	3.25			
2480	49.5%	3.14			
2490	48.6%	3.05			
2500	49.2%	3.10			

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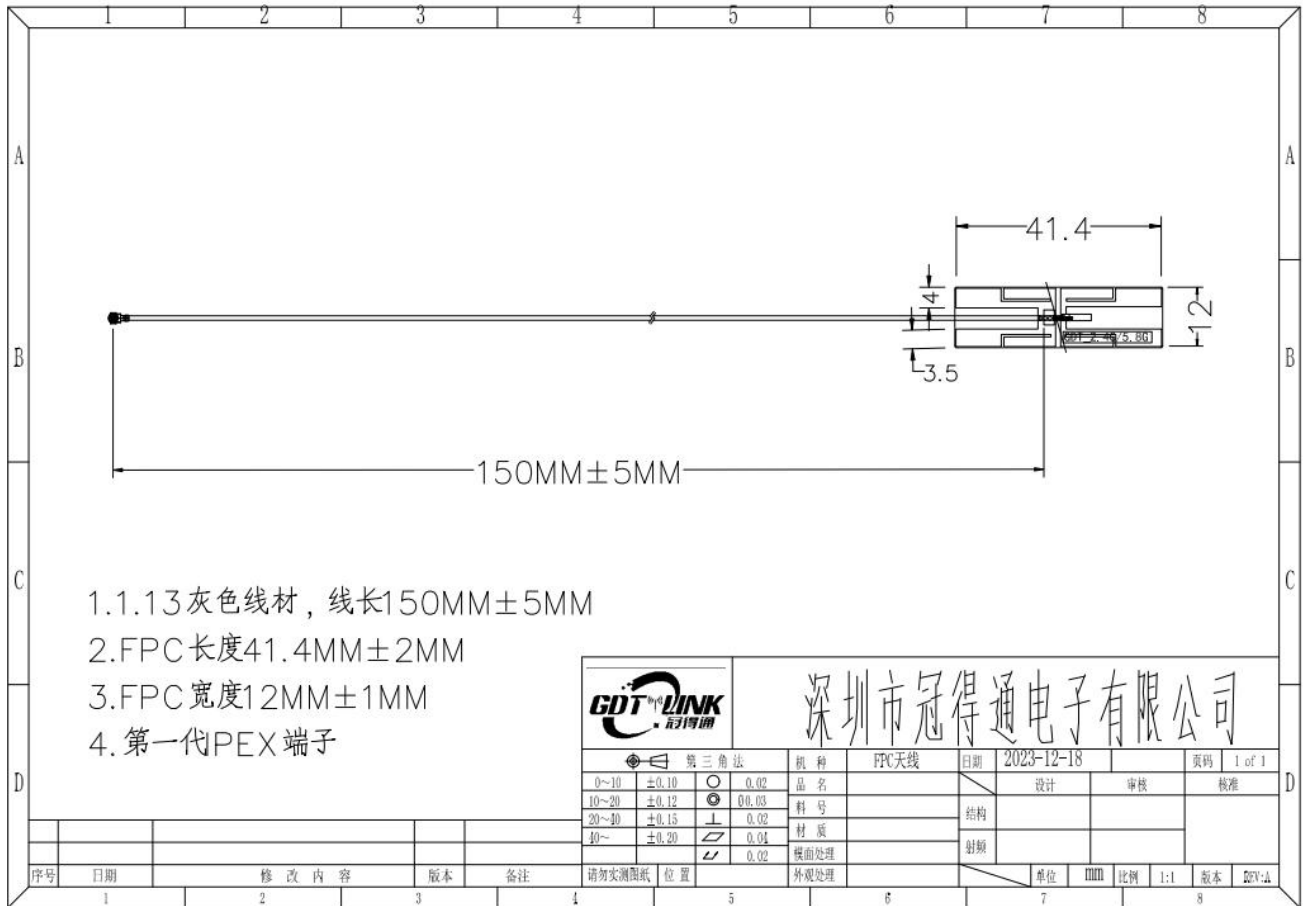
五、Apple chart



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六、Structural drawings



七、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 °C~+80 °C 2. Relative humidity: 45% - 85% 3. The air pressure is 86kpa-106kpa	Normal electrical and mechanical performance

深圳市冠得通电子有限公司

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High and low temperature test	5 cycles between 70 ° C and 40 ° C, then under normal conditions1-2H, check the appearance quality.	The size shall meet the requirements and Mechanical and electrical performance
Constant damp heat resistance test	Relative humidity: 95 ± 3%, test temperature: 40 °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