

SPECIFICATION



Shenzhen Guandetong Electronic Limited

2.4G/5.8G FPC ANT

Product specification

Frequency	2400MHz—2500MHz 5150MHZ—5800MHZ
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Version	A1
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Customer confirmation:

Whether the Assembly meets your requirements: ☐OK ☐NG

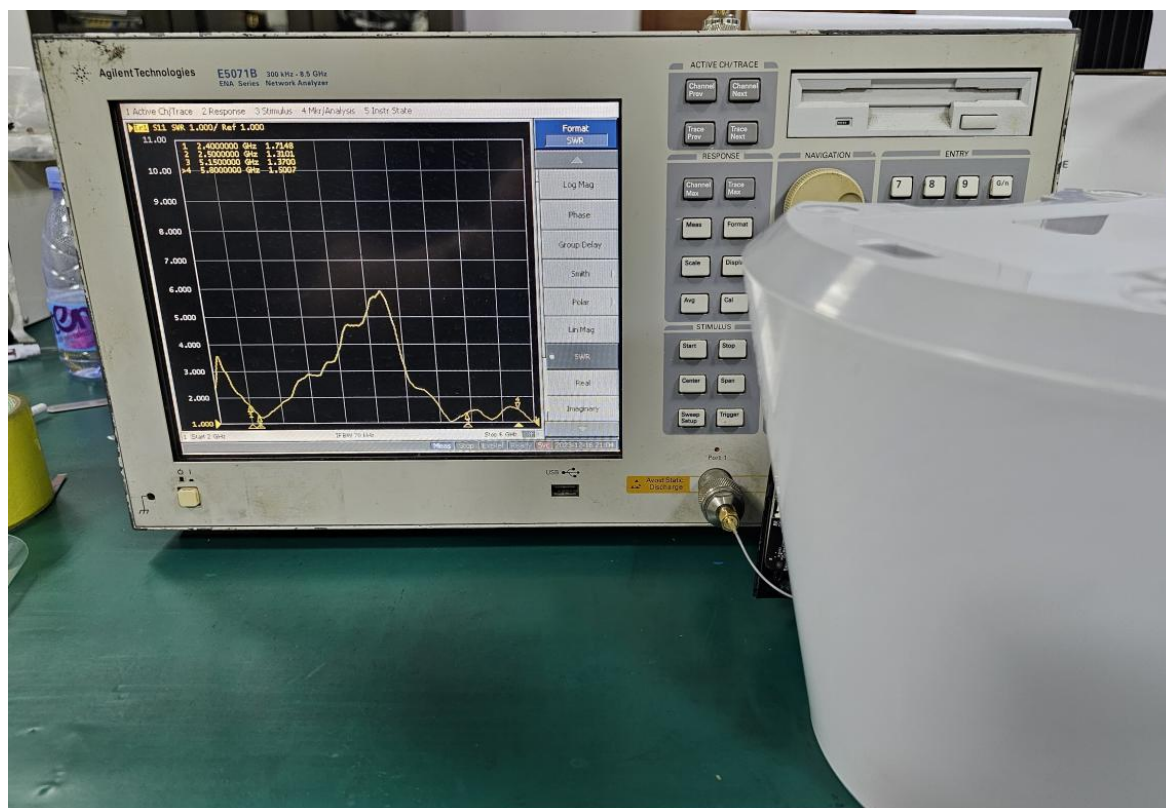
Product pictures



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)	50ohm	Radiation	QXCOMM
(VSWR)	≤ 2.0	(Power)	50W
		(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℃

S11 (VSWR/Return/Smith

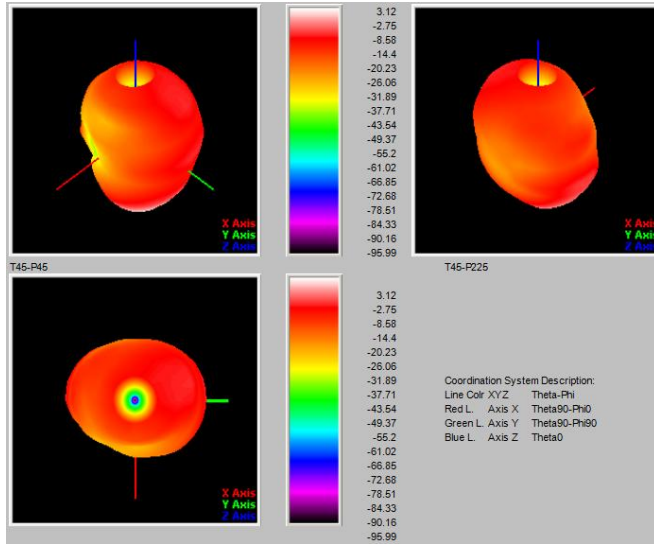


Antenna gain and efficiency

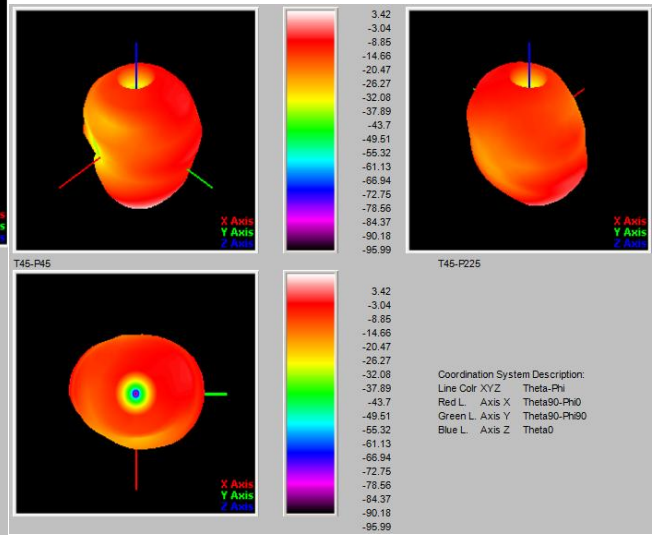
Antenna Passive Data			Antenna Passive Data		
频点(MHz)	效率(%)	增益(Gain)	频点(MHz)	效率(%)	增益(Gain)
2400	47.5%	3.12	5200	47.3%	2.96
2410	48.1%	3.25	5300	46.2%	2.92
2420	48.9%	3.28	5400	46.5%	2.87
2430	49.3%	3.32	5500	49.4%	2.95
2440	49.8%	3.35	5600	48.8%	3.25
2450	51.4%	3.42	5700	47.5%	3.18
2460	50.9%	3.36	5800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

Apple chart

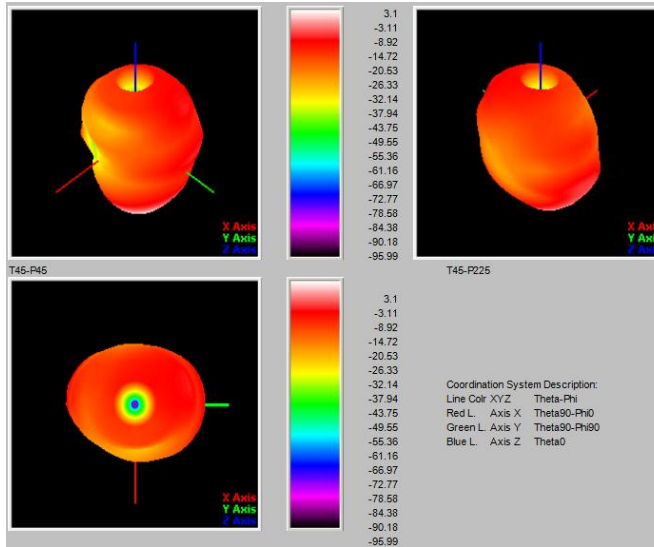
2400MHz



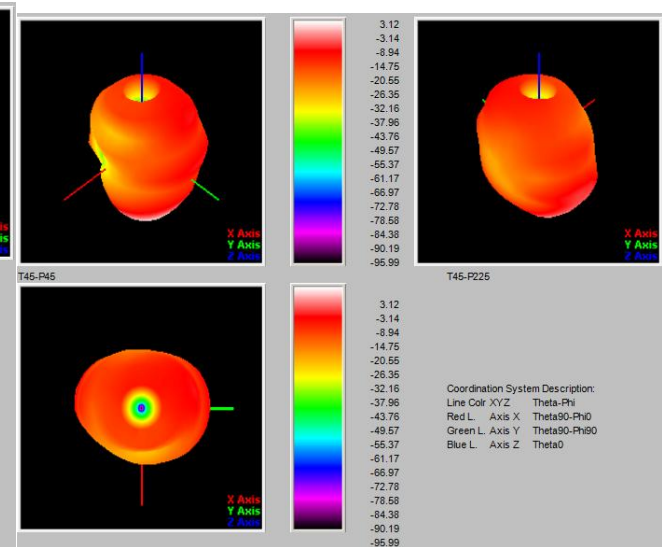
2450MHz



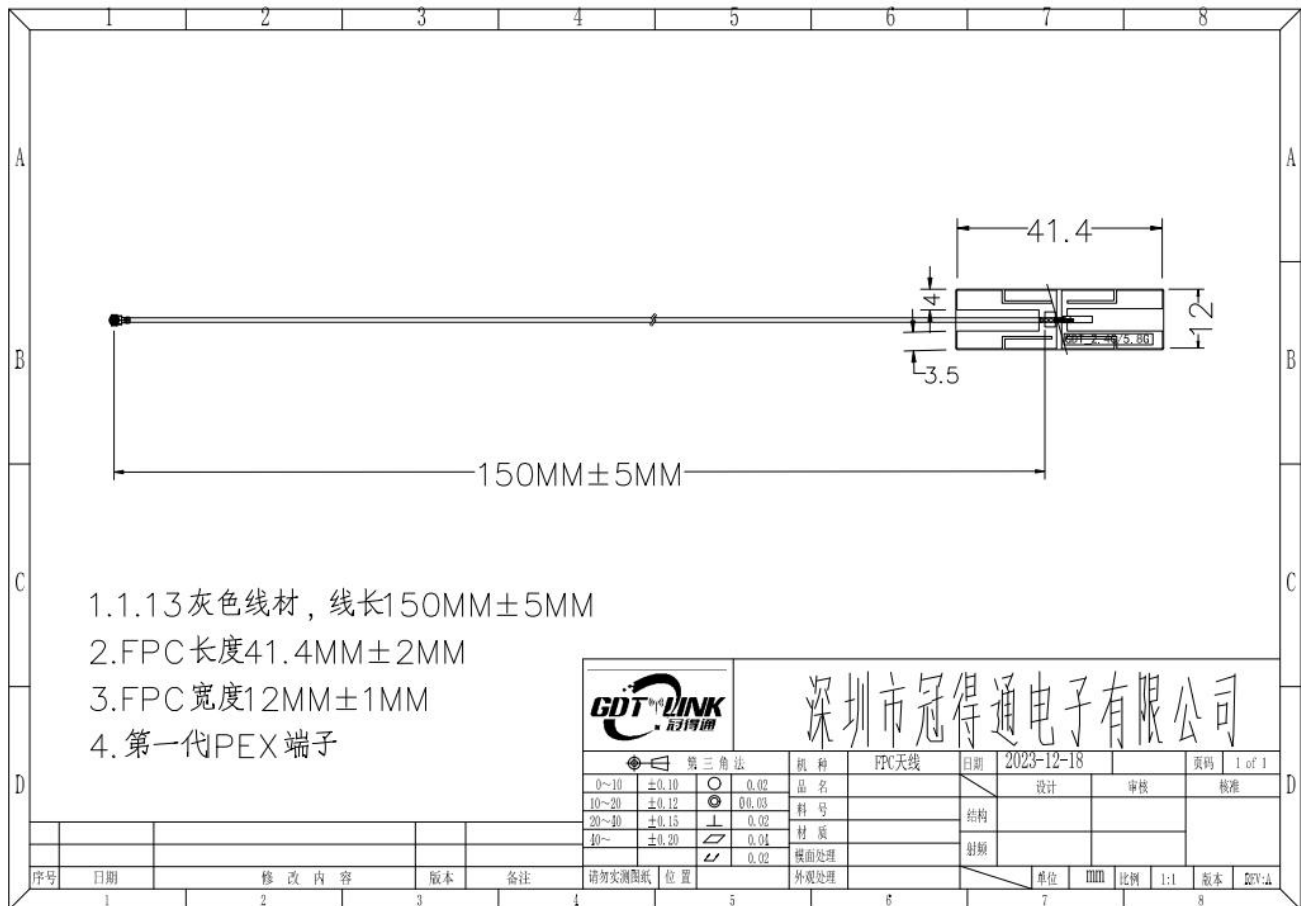
2500MHz



5800MHz



Structural drawings



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

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