

SPECIFICATION



Shenzhen Guandetong Electronic Limited

2.4G FPC Antenna

Product specification

Customers		Frequency	2400MHz—2500MHz
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:

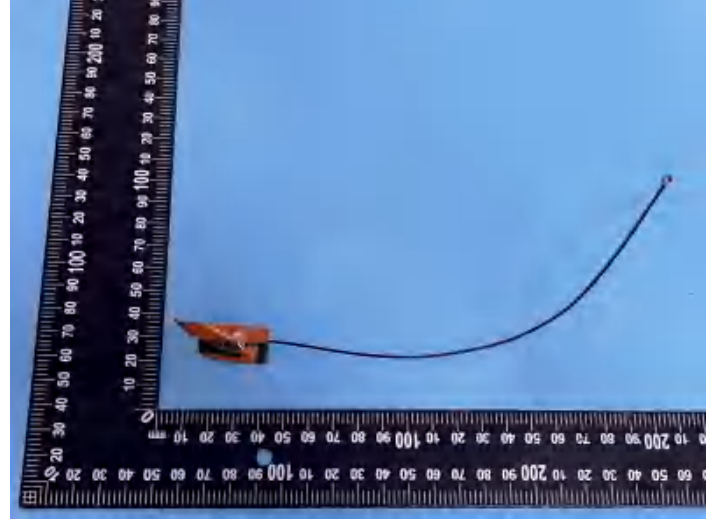
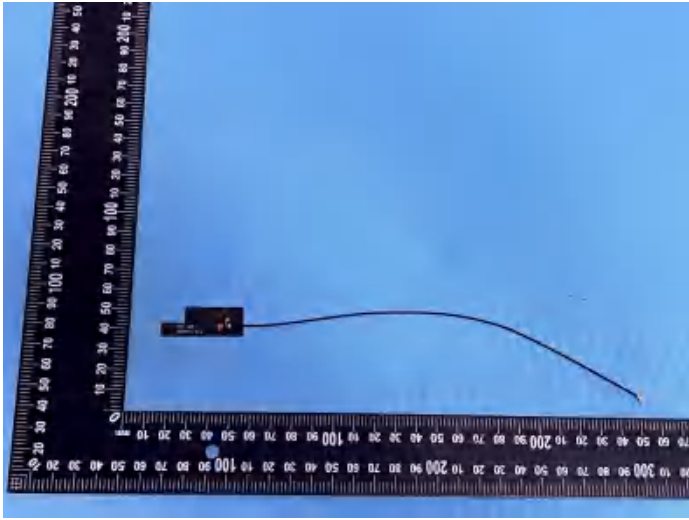
Whether the Assembly meets your requirements: ☐OK ☐NG

catalogue

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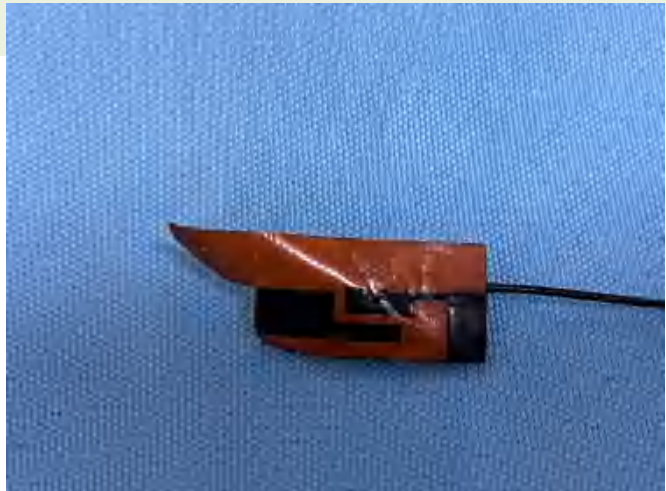
一、Product pictures



二、Product parameters

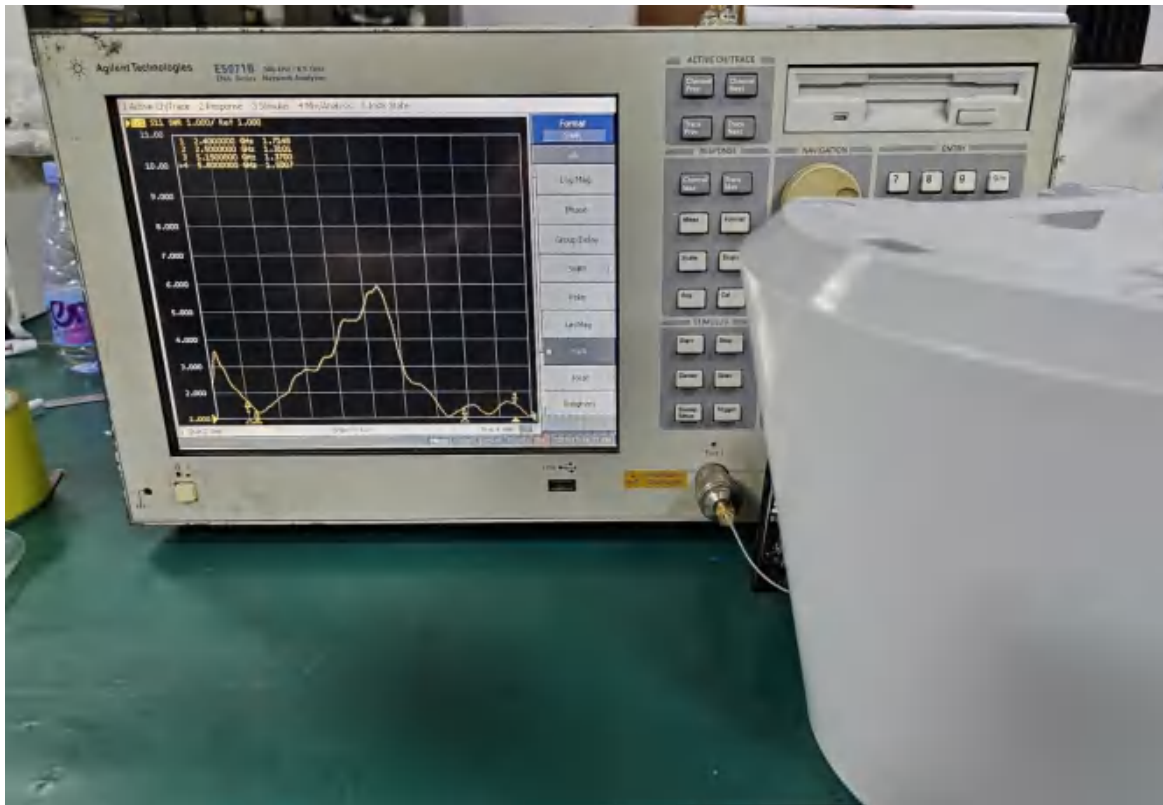
Product test parameters

(Name)	2.4 g/5.8G antenna	(Model Type)	
(Electrical Specifications)			
(Frequency Range)	2400-2500MHz	(Polarization)	perpendicular
(Impedance)	50 欧	Radiation	QXCOMM
(VSWR)	≤ 2.0	(Power)	50W
(Gain)	3.42dBi	(Bandwidth)	100M



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三、S11(VSWR/Return/Smith



四、Antenna gain and efficiency

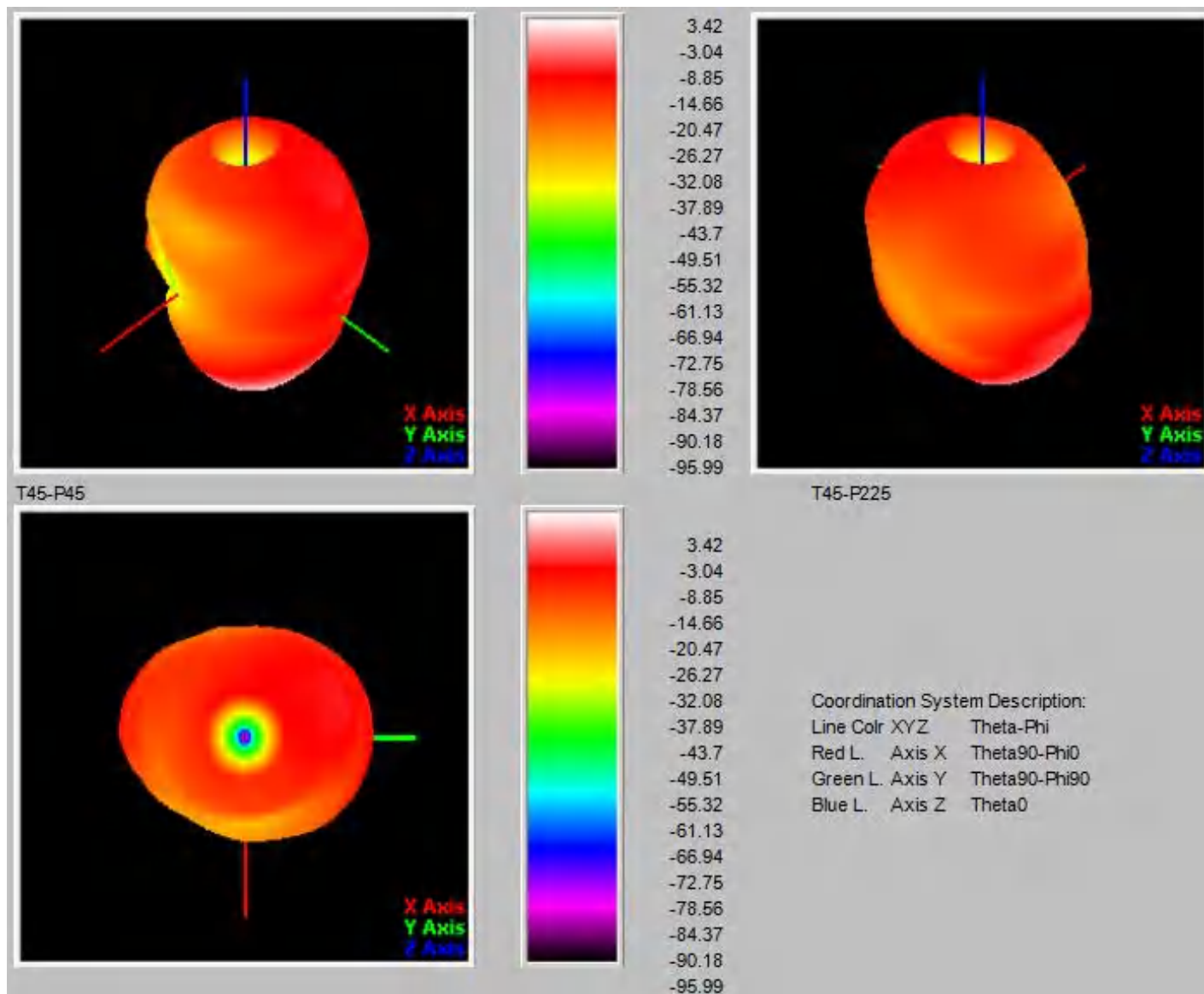
天线无源数据		
频点(MHz)	效率(%)	增益(Gain)
2400	47.5%	3.12
2410	48.1%	3.25
2420	48.9%	3.28
2430	49.3%	3.32
2440	49.8%	3.35
2450	51.4%	3.42
2460	50.9%	3.36
2470	49.7%	3.25
2480	49.5%	3.14
2490	48.6%	3.05
2500	49.2%	3.10

保 密 要 求

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五、Apple chart

2450MHz



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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