SPECIFICATION



Shenzhen Guandetong Electronic Limited

2.4G/5.8G FPC antenna (1.13 line black*70MM) Product specification

Customers		Frequency	2400MHz—2500MHz 5150MHZ-5800MHZ		
Name of		Version	A1		
wire rod	d version		A1		
Customer		GuandetongNo			
data		Guanue congno			
<i>Guandetong</i> N					
0					
R FDesign	肖彬	RF manager	刘亮		
Structural	王栋	Structure	王华		
design	上你	manager	工 作 		
Technical	ANDY	Date	2025-3-19		
Director	MIND I	рате			

Pudding

Customer confirmation:			
Whether the Assembly meets your requirements:	□OK	\square NG	

catalogue

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Address: 3/F, Tower D, Huanguan Nanmaoyuan Industrial Park, Guanhu Street, Longhua District, Shenzhen. Tel: 0755-88298396 fax: 0755-89733896

一、 Product pictures

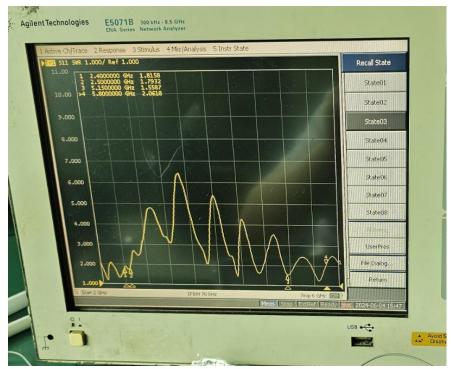


二、Product parameters

Product test parameters							
(Name)	2.4 g/5.8G antenna	(Model Type)					
(Electrical Specifications)							
(Frenquency Range)	2400-2500MHZ 5150-5800MHZ	(Polarization)	perpendicular				
(Impedance)	50 欧	Radiation	QXCOMM				
(VSWR)	≤ 2.0	(Power)	50W				
(Gain)	0.16-3.58dBi	(Bandwidth	100M				
(Mechanical Specifications)							
(Copper tube dimensions)	32*10±2mm	(Chassis Color)	Yellow				
(Connector)	IPEX	(Cable Length)	70 ± 2 mm				
(Wire)	1.13 Black						
(Working Temperature)	-40°C-+85°C	(Limit Temperature)	-40°C-+85°C				

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三、S11(VSWR/Return/Smith

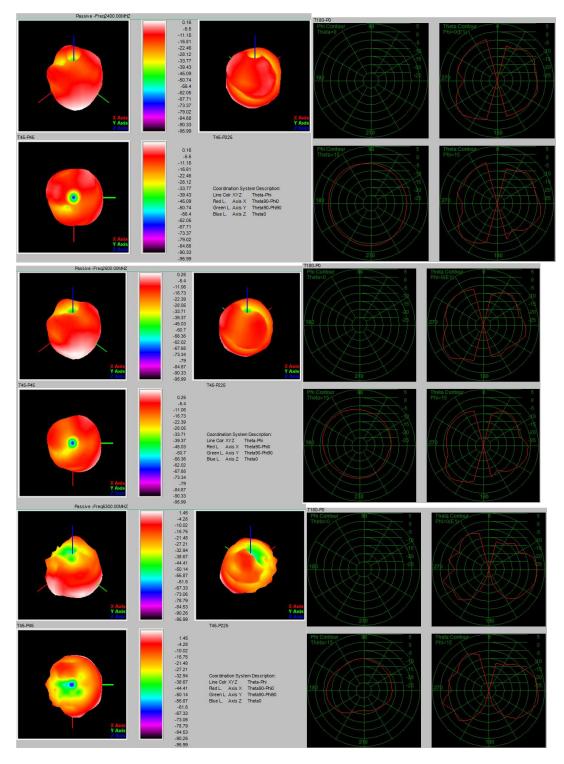


四、Antenna gain and efficiency

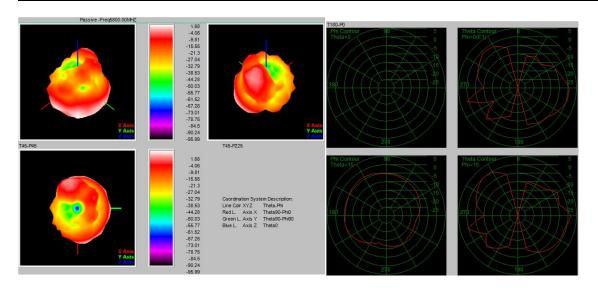
Point ID	(MHz)	(dBm)	(dBi)	y (dBi)	(%)						
1	2400.0	2400.00	0.16	4.32	38.4%						
2	2410.0	2410.00	0.41	4.62	38.0%						
1 2 3 4	2420.0	2420.00	0.83	4.90	39.2%						
4	2430.0	2430.00	1.21	5.02	41.5%						
5	2440.0	2440.00	1.01	4.91	40.7%						
6	2450.0	2450.00	0.96	4.85	40.9%						
I	2460.0	2460.00	1.02	4.82	41.7%						
8	2470.0	2470.00	0.85	4.68	41.5%						
5 1 8 9	2480.0	2480.00	0.32	4.36	39.5%	36	5540.0	5540.00	2.84	6.71	41.0%
10	2490.0	2490.00	0.26	4.36	39.0%	37	5550.0	5550.00	3.42	6.80	45.0%
11	2500.0	2500.00	0.26	4.33	39.1%	38	5560.0	5560.00	3.23	6.82	43.7%
12	5300.0	5300.00	1.45	6.08	34.4%	39	5570.0	5570.00	3.33	6.85	44.49
13	5310.0	5310.00	1.40	5.91	35.4%	40	5580.0	5580.00	3.15	6.94	41.79
14	5320.0	5320.00	1.01	5.77	33.4%	41	5590.0	5590.00	2.66	6.77	38.99
15	5330.0	5330.00	0.96	5.82	32.6%	42	5600.0	5600.00	2.59	6.65	39.39
15	5340.0	5340.00	1.14	5.88	33.6%	43	5610.0	5610.00	2.30	6.66	36.69
17	5350.0	5350.00	1.01	5.86	32.7%	44	5620.0	5620.00	2.21	6.63	36.19
18	5360.0	5360.00	1.32	5.81	35.6%	45	5630.0	5630.00	2.22	6.66	36.09
19	5370.0	5370.00	1.03	5.80	33.4%	46	5640.0	5640.00	2.40	6.60	38.1%
20	5380.0	5380.00	1.72	5.93	37.9%	47	5650.0	5650.00	2.54	6.70	38.49
21	5390.0	5390.00	2.49	6.04	44.2%	48	5660.0	5660.00	2.37	6.41	39.5%
22	5400.0	5400.00	2.23	6.13	40.7%	49	5670.0	5670.00	2.72	6.39	42.99
23	5410.0	5410.00	3.00	6.39	45.7%	50	5680.0				
24	5420.0	5420.00	2.95	6.61	43.1%			5680.00	2.26	6.14	41.0%
25	5430.0	5430.00	3.14	6.78	43.3%	<u>51</u>	5690.0 5700.0	5690.00 5700.00	2.74	6.29	44.19
26	5440.0	5440.00	3.58	7.01	45.3%	52	5710.0	5710.00	2.53	6.28	42.49
27	5450.0	5450.00	3.25	7.07	41.5%	53			3.13	6.35	47.69
28	5460.0	5460.00	3.05	7.13	39.1%	54	5720.0	5720.00			
29	5470.0	5470.00	3.10	7.01	40.6%	.55	5730.0	5730.00	3.02	6.34	
30	5480.0	5480.00	2.71	6.80	38.9%	56	5740.0	5740.00	2.87		
	5490.0	5490.00	2.85	6.82	40.0%	<u>57</u> 58	5750.0	5750.00	3.12		
31	5500.0	5500.00	3.10	6.81	42.6%	58	5760.0	5760.00	2.57		
32	5510.0	5510.00	2.54	6.72		.59	5770.0	5770.00	2.52		
33	5520.0	5520.00			38.2%	50	5780.0	5780.00	2.41		
34			2.95	6.58	43.3%	<u>61</u>	5790.0	5790.00		5.72	
35	5530.0	5530.00	2.99	6.67	42.8%	62	5800.0	5800.00	1.68	5.52	41.49

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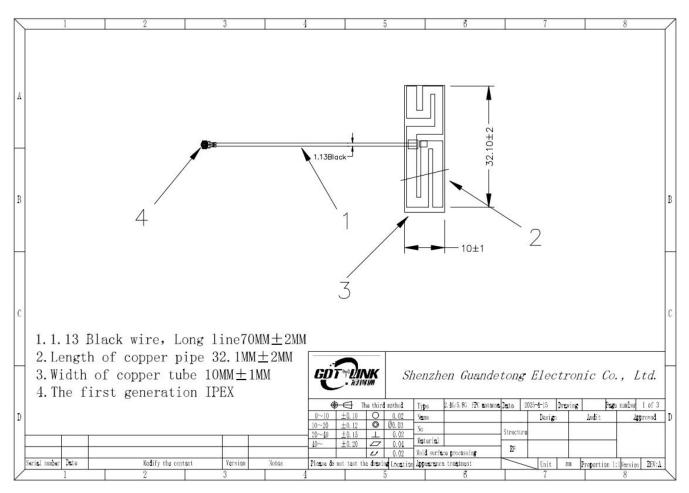
五、Apple chart



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六、Structural drawings



七、Environmental performance test

project	Project test conditions	Specificati ons
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