

SPECIFICATION



Shenzhen Guandetong Electronic Limited

2.4G/5.8G FPC antenna 1.13 gray length 130MM

Product specification

Customers		Frequency	2400MHz—2500MHz 5150MHZ—5800MHZ
Name of wire rod		Version	A1
Customer data		GuandetongNo	
GuandetongNo			
RF Design	XIAO	RF manager	LI
Structural design	WU	Structure manager	HUANG
Technical Director	ANDY	Date	2026-02-28

Customer confirmation:

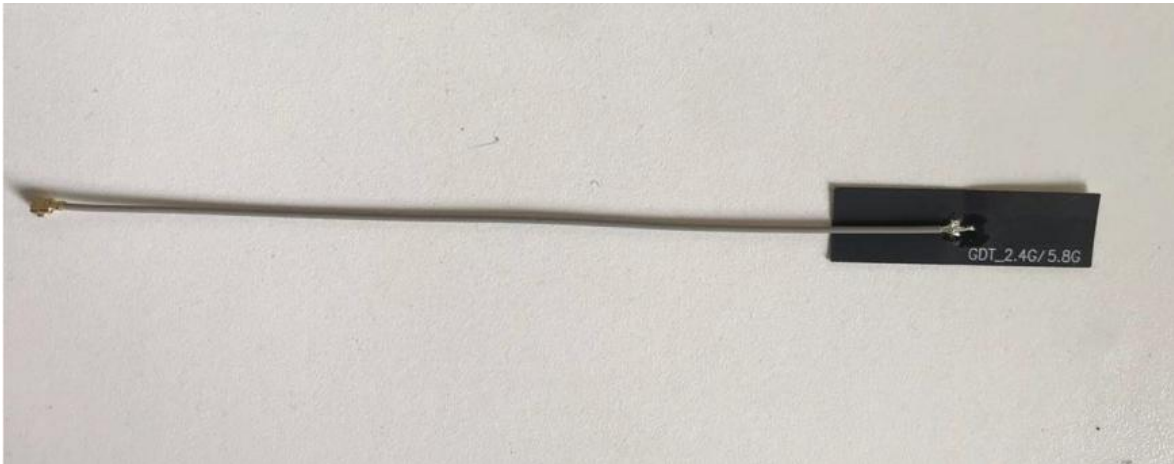
Whether the Assembly meets your requirements: ☐OK ☐NG

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.....	5-6
六、 Structural drawings.....	6
七、 Environmental performance test.....	7

Confidentiality requirements of Shenzhen Guande tong Electronic Co. , Ltd. . The company has proprietary technology to provide the information, which should be strictly confidential, it shall not be disclosed to any person or company without the prior written consent of Shenzhen Guande tong Electronic Co. , Ltd. .

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 Ω	Radiation	QXCOMM
(VSWR)	≦2.0	(Power)	50W
(Gain)	3dBi	(Bandwidth	100M
(Mechanical Specifications)			
(Copper tube dimensions)	41.4*12±2mm	(Chassis Color)	black
(Connector)	IPEX	(Cable Length)	130±2mm
(Wire)	1.13 gray	(Radome Material)	FPC
(Working Temperature)	-40℃--+85℃	(Limit Temperature)	-40℃--+85℃

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

<http://www.szgdtrf.com>

Confidentiality requirements of Shenzhen Guande tong Electronic Co. , Ltd. . The company has proprietary technology to provide the information, which should be strictly confidential, it shall not be disclosed to any person or company without the prior written consent of Shenzhen Guande tong Electronic Co. , Ltd. .

三、S11(VSWR/Return/Smith



四、Antenna gain and efficiency

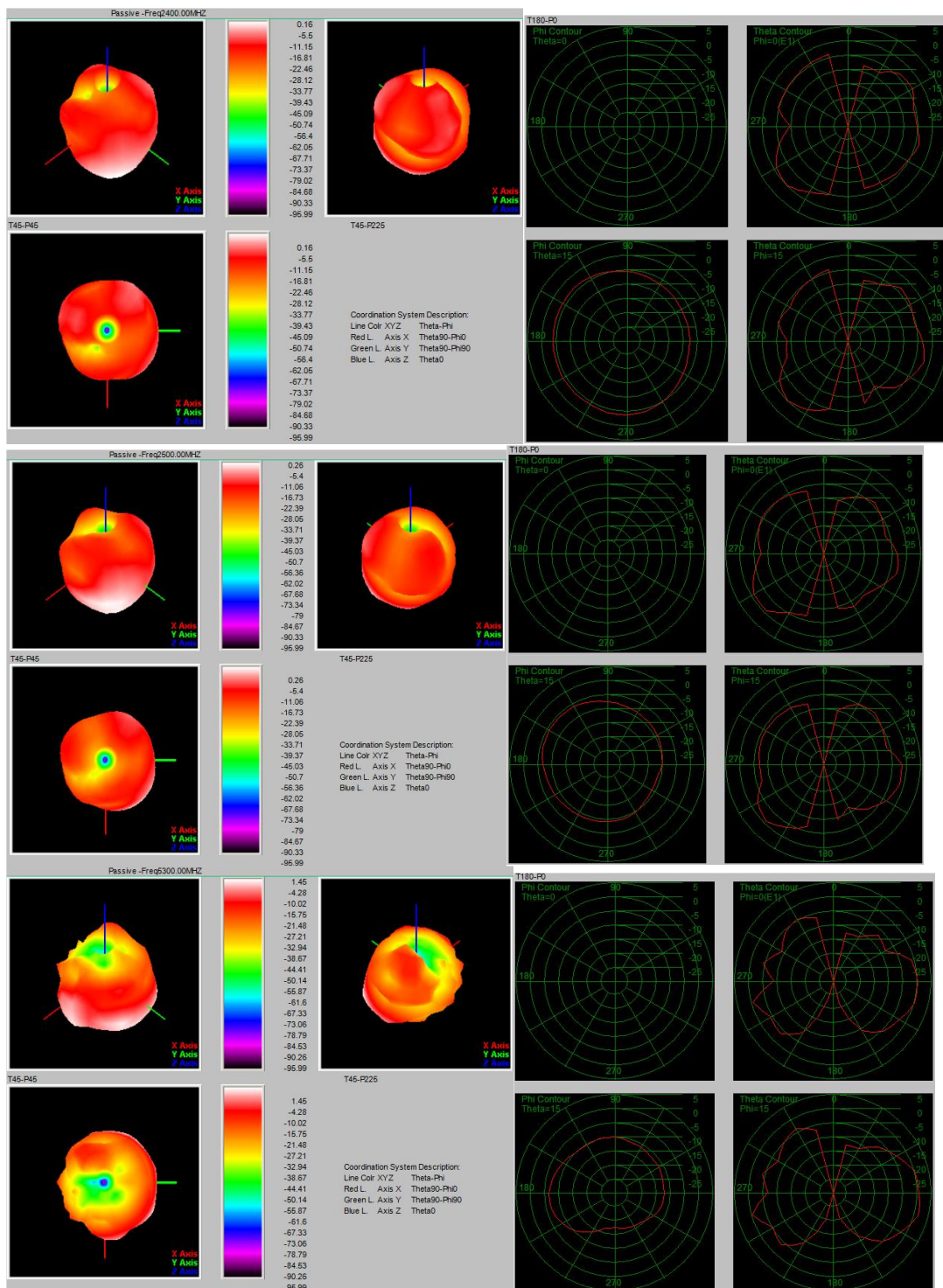
Point ID	(MHz)	(dBm)	(dBi)	y (dBi)	(%)
1	2400.0	2400.00	0.16	4.32	38.4%
2	2410.0	2410.00	0.41	4.62	38.0%
3	2420.0	2420.00	0.83	4.90	39.2%
4	2430.0	2430.00	1.21	5.02	41.5%
5	2440.0	2440.00	1.01	4.91	40.7%
6	2450.0	2450.00	0.96	4.85	40.9%
7	2460.0	2460.00	1.02	4.82	41.7%
8	2470.0	2470.00	0.85	4.68	41.5%
9	2480.0	2480.00	0.32	4.36	39.5%
10	2490.0	2490.00	0.26	4.36	39.0%
11	2500.0	2500.00	0.26	4.33	39.1%
12	5300.0	5300.00	1.45	6.08	34.4%
13	5310.0	5310.00	1.40	5.91	35.4%
14	5320.0	5320.00	1.01	5.77	33.4%
15	5330.0	5330.00	0.96	5.82	32.6%
16	5340.0	5340.00	1.14	5.88	33.6%
17	5350.0	5350.00	1.01	5.86	32.7%
18	5360.0	5360.00	1.32	5.81	35.6%
19	5370.0	5370.00	1.03	5.80	33.4%
20	5380.0	5380.00	1.72	5.93	37.9%
21	5390.0	5390.00	2.49	6.04	44.2%
22	5400.0	5400.00	2.23	6.13	40.7%
23	5410.0	5410.00	3.00	6.39	45.7%
24	5420.0	5420.00	2.95	6.61	43.1%
25	5430.0	5430.00	3.14	6.78	43.3%
26	5440.0	5440.00	3.58	7.01	45.3%
27	5450.0	5450.00	3.25	7.07	41.5%
28	5460.0	5460.00	3.05	7.13	39.1%
29	5470.0	5470.00	3.10	7.01	40.6%
30	5480.0	5480.00	2.71	6.80	38.9%
31	5490.0	5490.00	2.85	6.82	40.0%
32	5500.0	5500.00	3.10	6.81	42.6%
33	5510.0	5510.00	2.54	6.72	38.2%
34	5520.0	5520.00	2.95	6.58	43.3%
35	5530.0	5530.00	2.99	6.67	42.8%
36	5540.0	5540.00	2.84	6.71	41.0%
37	5550.0	5550.00	3.42	6.80	46.0%
38	5560.0	5560.00	3.23	6.82	43.7%
39	5570.0	5570.00	3.33	6.85	44.4%
40	5580.0	5580.00	3.15	6.94	41.7%
41	5590.0	5590.00	2.66	6.77	38.9%
42	5600.0	5600.00	2.59	6.65	39.3%
43	5610.0	5610.00	2.30	6.66	36.6%
44	5620.0	5620.00	2.21	6.63	36.1%
45	5630.0	5630.00	2.22	6.66	36.0%
46	5640.0	5640.00	2.40	6.60	38.1%
47	5650.0	5650.00	2.54	6.70	38.4%
48	5660.0	5660.00	2.37	6.41	39.5%
49	5670.0	5670.00	2.72	6.39	42.9%
50	5680.0	5680.00	2.26	6.14	41.0%
51	5690.0	5690.00	2.74	6.29	44.1%
52	5700.0	5700.00	2.56	6.29	42.4%
53	5710.0	5710.00	2.53	6.28	42.2%
54	5720.0	5720.00	3.13	6.35	47.6%
55	5730.0	5730.00	3.02	6.34	46.6%
56	5740.0	5740.00	2.87	6.20	46.5%
57	5750.0	5750.00	3.12	6.20	49.2%
58	5760.0	5760.00	2.57	6.09	44.4%
59	5770.0	5770.00	2.52	6.05	44.4%
60	5780.0	5780.00	2.41	6.01	43.7%
61	5790.0	5790.00	1.75	5.72	40.0%
62	5800.0	5800.00	1.68	5.52	41.4%

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

<http://www.szgdtrf.com>

Confidentiality requirements of Shenzhen Guandetong Electronic Co. , Ltd. . The company has proprietary technology to provide the information, which should be strictly confidential, it shall not be disclosed to any person or company without the prior written consent of Shenzhen Guandetong Electronic Co. , Ltd. .

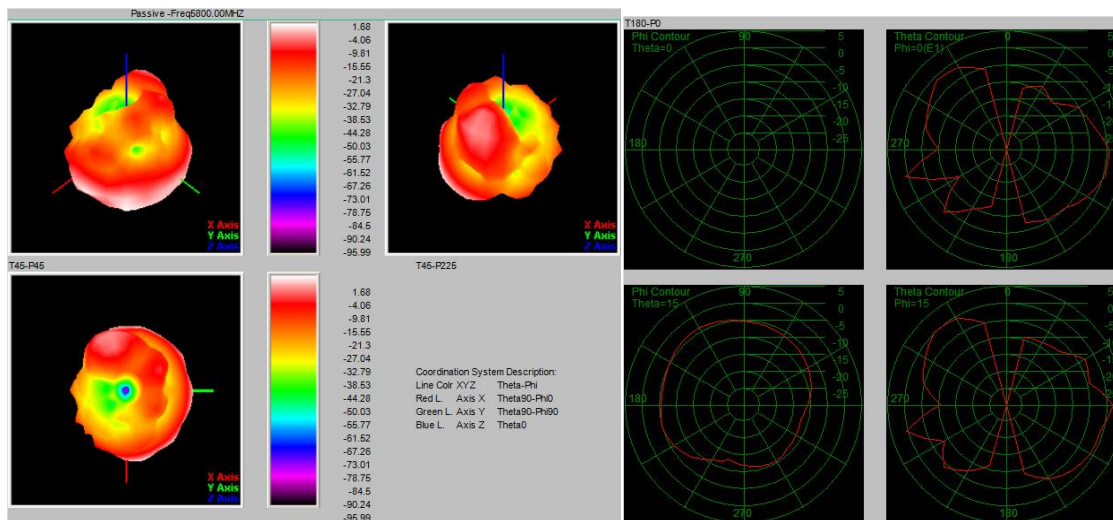
五、Apple chart



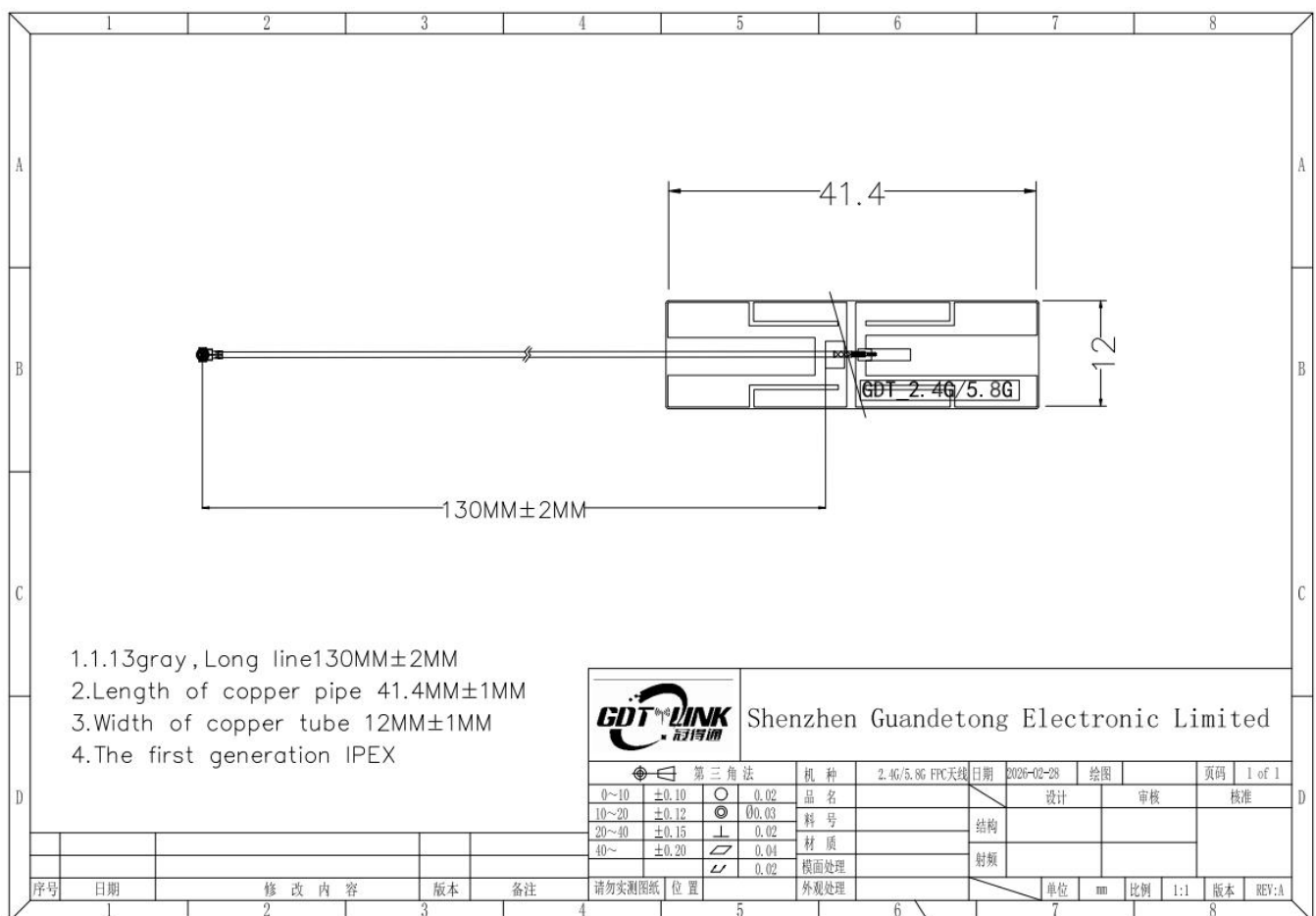
Address: 3/F, Tower D, Huanguan Nanmaoyuan Industrial Park, Guanhu Street,
Longhua District, Shenzhen. Tel: 0755-88298396 fax: 0755-89733896

<http://www.szgdtrf.com>

Confidentiality requirements of Shenzhen Guandetong Electronic Co. , Ltd. . The company has proprietary technology to provide the information, which should be strictly confidential, it shall not be disclosed to any person or company without the prior written consent of Shenzhen Guandetong Electronic Co. , Ltd. .



六、Structural drawings



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

<http://www.szgdtrf.com>

Confidentiality requirements of Shenzhen Guandetong Electronic Co. , Ltd. . The company has proprietary technology to provide the information, which should be strictly confidential, it shall not be disclosed to any person or company without the prior written consent of Shenzhen Guandetong Electronic Co. , Ltd. .

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 $-30^{\circ}\text{C}\sim+80^{\circ}\text{C}$ 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 conditions 1-2H, check the appearance quality.	The size shall meet the requirements and Mechanical and electrical performance
Constant damp heat resistance test	Relative humidity: $95 \pm 3\%$, 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

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

<http://www.szgdtrf.com>