

SPECIFICATION

Shenzhen Guandetong Electronic Limited

*Shenzhen Guandetong Electronic Co., Ltd.*2.4G FPC 1.13 black line with 60MM strip terminal

Product Specification

connection		frequency range	2400-2500MHz
Frequency band wire name		edition	A1
Customer part number	3. 26. 003. 100000V	Guandetong part number	
Guandeton g No			
R F design	肖彬	RF Manager	刘亮
Structural design	王栋	Structure Manager	王华
Technical Director	叶定坤	Date	2025-11-13

Customer confirmation:

Does the assembly meet your company's 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&Apple in 3D.....	4-5
五、 Structural drawings.....	5
六、 Environmental performance test.....	6

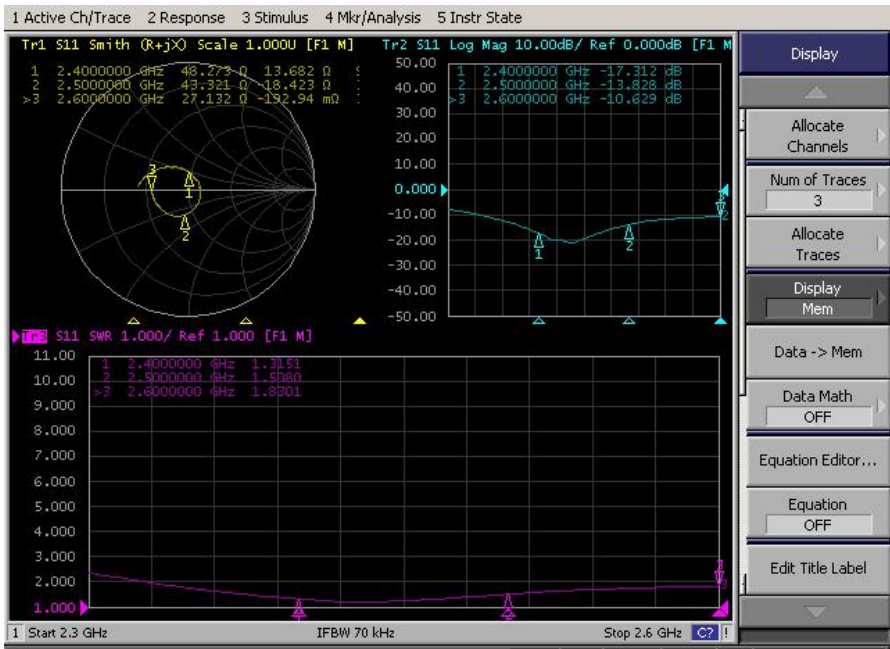
一、 Product pictures



二、 Product parameters

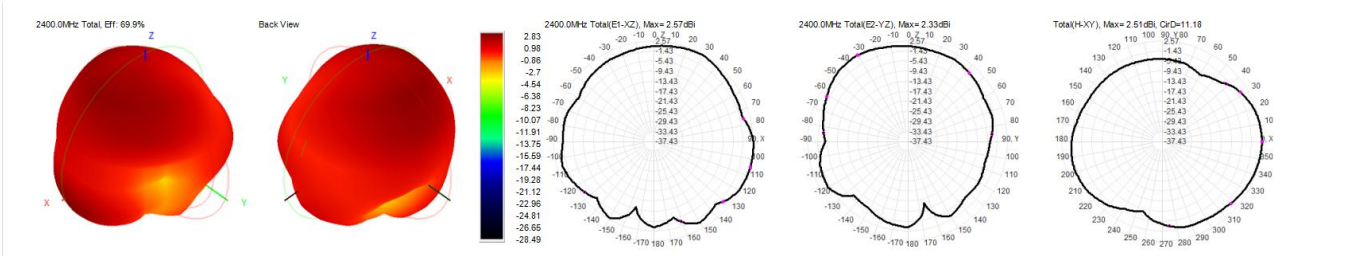
Product testing parameters			
Product name	FPC Antenna	(Model Type)	GDT-DX-60
(Electrical Specifications)			
(Frenquency Range)	2400-2500MHz	(Polarization)	perpendicular
(Impedance)	50Ω	Radiation	QXCOMM
(VSWR)	≦2.0	(Power)	50W
(Gain)	3dBi	(Bandwidth	100M
(Mechanical Specifications)			
(Dimensions)	32*10±2mm	(Chassis Color)	Black
(Connector)	IPEX	(Cable Length)	60±5MM
(Chassis Material)	FPC	Wire color	1.13 Black
(Working Temperature)	-40℃-+85℃	(Limit Temperature)	-40℃-+85℃

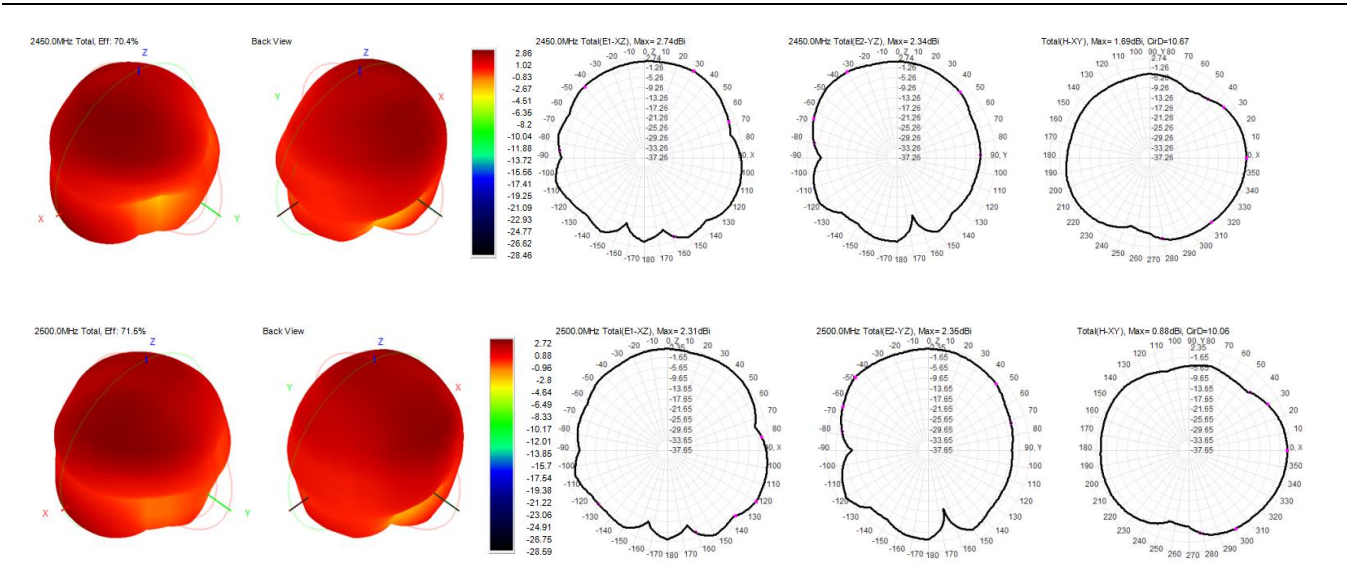
三、S11(VSWR、Return、Smith)



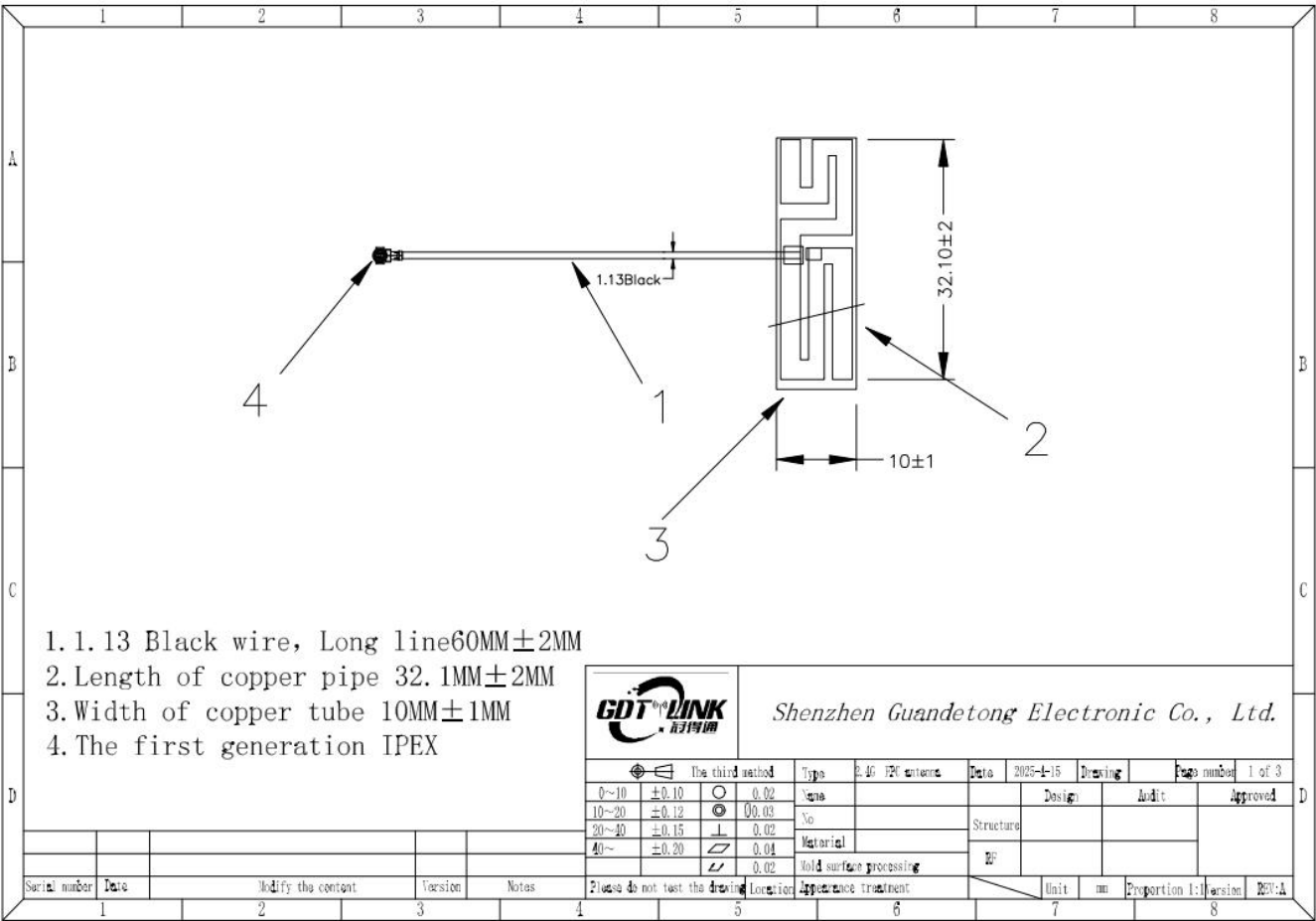
四、Antenna gain and efficiency&Apple in 3D

 深圳市冠得通电子有限公司											
序号	1	2	3	4	5	6	7	8	9	10	11
频率(MHz)	2400.0	2410.0	2420.0	2430.0	2440.0	2450.0	2460.0	2470.0	2480.0	2490.0	2500.0
效率 (dBi)	-1.56	-1.54	-1.36	-1.52	-1.65	-1.53	-1.27	-1.39	-1.51	-1.64	-1.46
增益 (dBi)	2.83	2.87	3.00	2.80	2.71	2.86	3.06	2.85	2.65	2.52	2.72
效率 (%)	69.88	70.22	73.06	70.40	68.39	70.37	74.57	72.57	70.65	68.59	71.46
方向性(dB)	4.38	4.41	4.36	4.32	4.36	4.38	4.34	4.24	4.16	4.15	4.18
最大增益位置(theta)	105.00	105.00	105.00	105.00	30.00	30.00	30.00	30.00	105.00	105.00	120.00
最大增益位置(Phi)	345.00	345.00	345.00	345.00	15.00	30.00	30.00	30.00	345.00	345.00	345.00
水平极化效率(%)	23.24	23.73	25.28	25.10	25.03	26.42	28.48	28.07	27.26	26.20	26.90
垂直极化效率(%)	46.64	46.49	47.78	45.30	43.36	43.95	46.09	44.49	43.39	42.39	44.56
上半球效率 (%)	42.66	43.17	45.29	43.96	42.96	44.48	47.28	46.08	44.80	43.27	44.84
下半球效率 (%)	27.22	27.05	27.77	26.44	25.43	25.89	27.29	26.49	25.85	25.32	26.62





五、 Structural drawings



六、 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 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