

SPECIFICATION

Shenzhen Guandetong Electronic Limited

*Shenzhen Guandetong Electronic Co., Ltd.*2.4G/5.8G Square White Ultrasonic 1.13 Grey line long (110mm) With

Product Specification

connection		frequency range	2400-2500MH 5150-5850MHZ
Frequency band wire name		edition	A1
Customer part number	DZL0400034	Guandetong part number	
Guandeton g No			
R F design	XIAO	RF Manager	LI
Structural design	WU	Structure Manager	HUANG
Technical Director	ADD	Date	2026-06-28

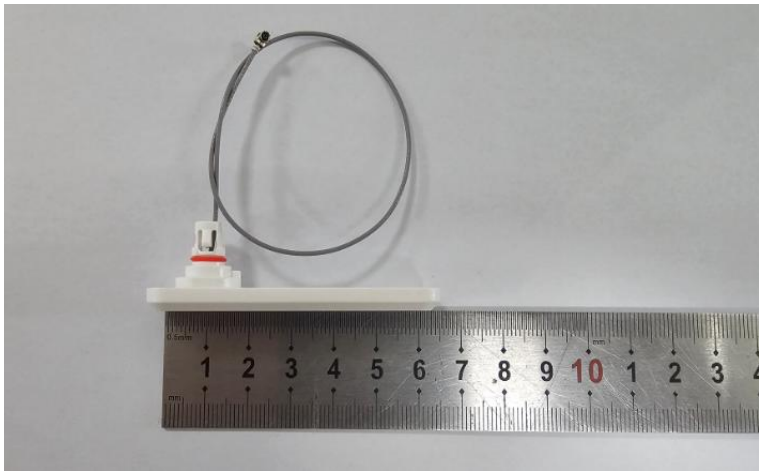
Customer confirmation:

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、 Structural drawings.....	4
五、 Antenna gain and efficiency&Apple in 3D.....	4-5
六、 Environmental performance test.....	6

一、 Product pictures



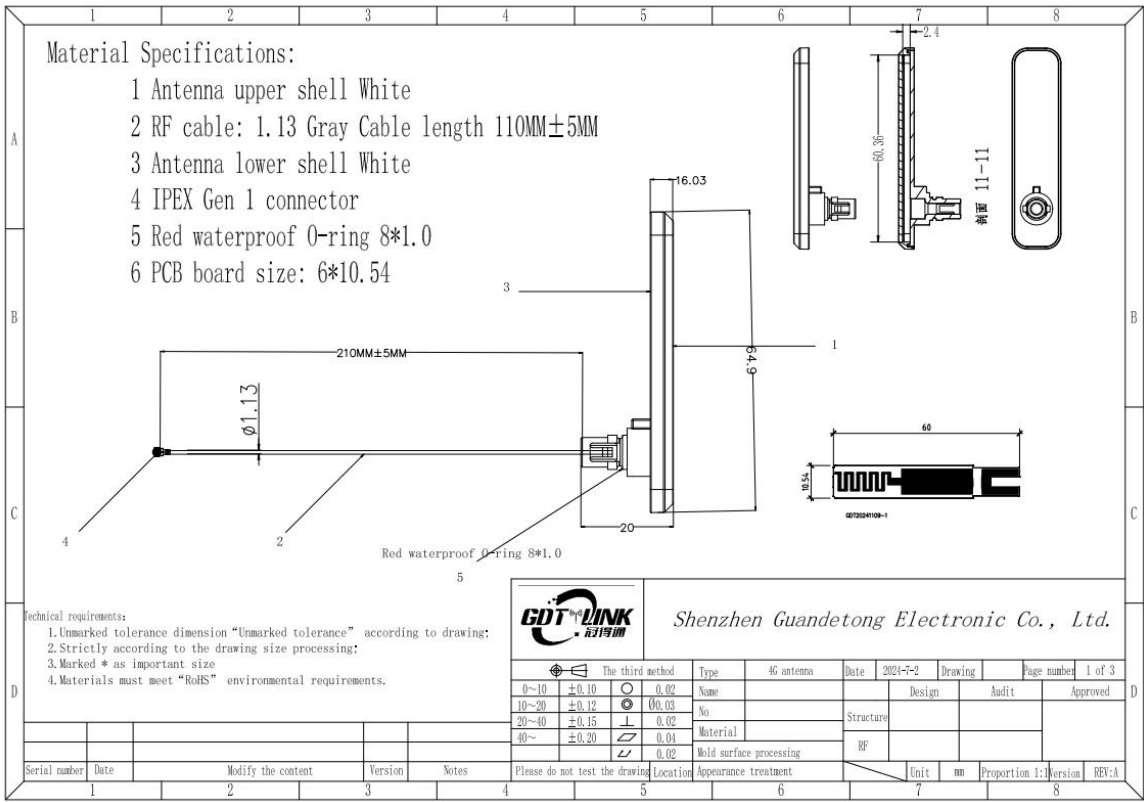
二、 Product parameters

Product testing parameters			
Product name	2. 4G/5. 8G Antenna	(Model Type)	GDT-XP-110
(Electrical Specifications)			
(Frenquency Range)	2400-2500MHz 5150-5850MHz	(Polarization)	perpendicular
(Impedance)	50Ω	Radiation	QXCOMM
(VSWR)	≦ 2. 0	(Power)	50W
(Gain)	3dBi	(Bandwidth	100M
(Mechanical Specifications)			
(Dimensions)	64.9*16.03-+0.5mm	(Chassis Color)	white
(Connector)	IPEX Gen 1 connector	(Cable Length)	110±5MM
(Chassis Material)	ABS	Wire color	1.13 Gray
(Working Temperature)	-40℃--+85℃	(Limit Temperature)	-40℃--+85℃

三、S11(VSWR、Return、Smith)

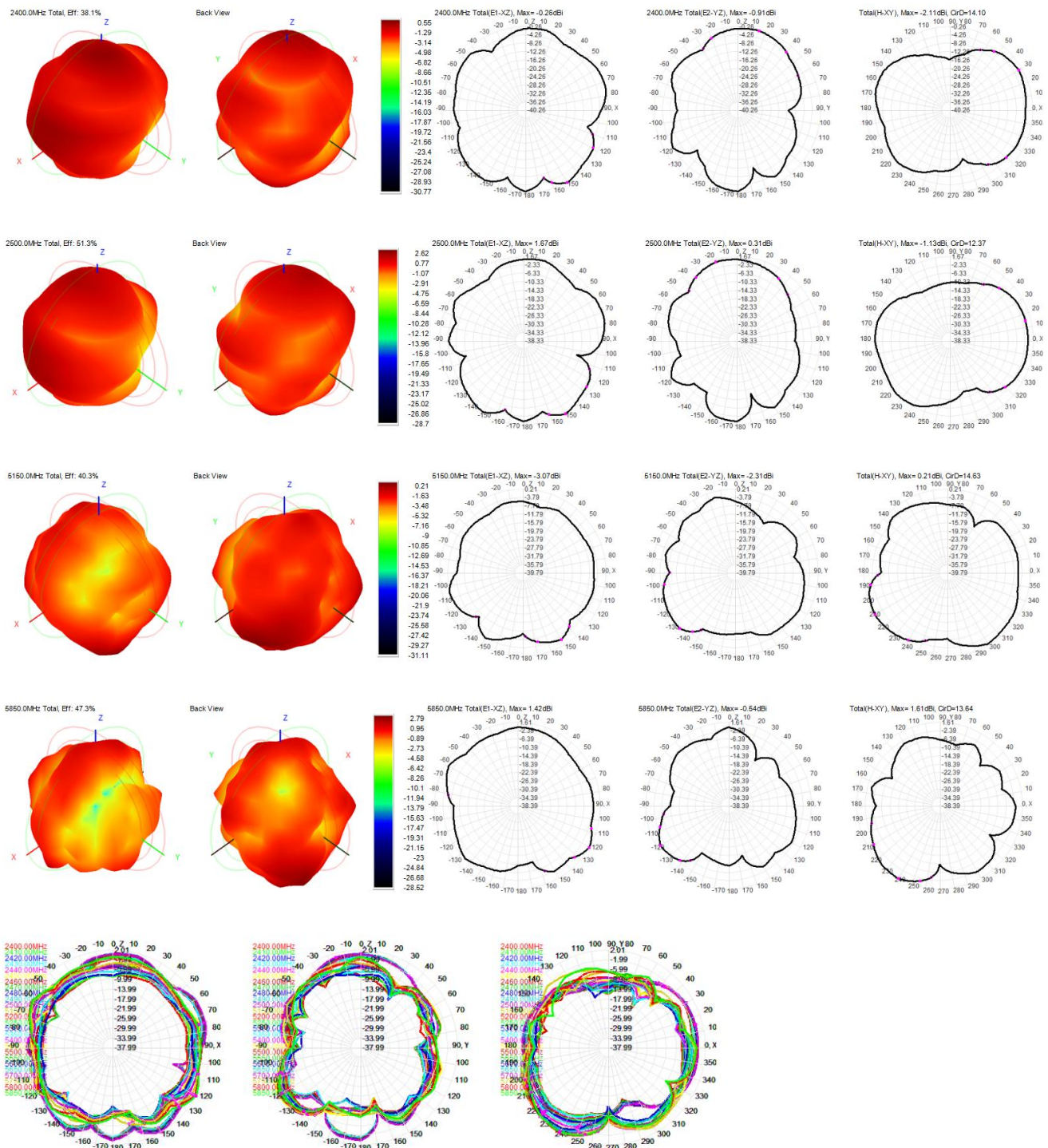


四、Structural drawings



五、Antenna gain and efficiency&Apple in 3D

序号	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26
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	5150.0	5200.0	5250.0	5300.0	5350.0	5400.0	5450.0	5500.0	5550.0	5600.0	5650.0	5700.0	5750.0	5800.0	5850.0
效率 (dB)	-4.19	-4.17	-4.00	-4.32	-3.62	-3.43	-3.52	-3.27	-3.16	-2.93	-2.90	-3.94	-5.64	-5.45	-4.83	-4.22	-3.25	-3.09	-3.65	-3.82	-5.01	-4.26	-3.45	-3.19	-3.12	-2.79
增益 (dB)	0.55	0.63	0.95	0.77	1.44	1.62	1.55	1.82	2.04	2.42	2.62	0.21	-1.85	-1.23	-0.18	1.04	1.88	1.82	1.53	1.64	0.44	1.50	2.55	2.93	3.12	2.79
效率 (%)	38.06	38.29	39.77	37.01	43.41	45.42	44.45	47.04	48.29	50.97	51.29	40.33	27.30	28.49	32.88	37.83	47.37	49.05	43.15	41.52	31.57	37.53	45.13	47.98	47.95	47.28
指向角 (dB)	4.74	4.80	4.96	5.08	5.07	5.04	5.07	5.09	5.20	5.25	5.52	4.15	3.79	4.22	4.65	5.26	5.12	4.91	5.18	5.46	5.45	5.75	6.00	6.12	6.31	6.05
最大增益位置 (theta)	135.00	150.00	150.00	150.00	150.00	150.00	150.00	150.00	150.00	150.00	150.00	90.00	135.00	135.00	105.00	105.00	105.00	105.00	105.00	105.00	90.00	90.00	105.00	105.00	105.00	105.00
水平极化位置 (Phi)	210.00	345.00	345.00	345.00	345.00	345.00	345.00	345.00	345.00	345.00	345.00	210.00	255.00	255.00	195.00	195.00	195.00	195.00	225.00	225.00	240.00	240.00	240.00	240.00	240.00	240.00
水平极化效率 (%)	12.74	12.73	13.19	12.16	14.11	14.58	14.16	14.97	15.29	16.02	16.04	15.90	10.27	10.53	11.97	14.11	17.56	18.33	16.08	15.52	12.58	15.17	18.72	18.21	16.58	14.92
垂直极化效率 (%)	25.32	25.57	26.58	24.85	29.30	30.84	30.29	32.07	33.00	34.94	35.25	24.42	17.03	17.96	20.91	23.72	29.80	30.72	27.07	26.01	18.99	22.36	26.42	29.76	31.37	32.36
上半球效率 (%)	20.80	21.08	22.04	20.64	24.38	25.67	25.22	26.76	27.47	28.90	28.98	15.81	10.56	10.93	12.69	14.64	18.82	20.15	17.99	17.42	13.13	15.85	19.13	20.89	21.20	21.45
下半球效率 (%)	17.26	17.21	17.73	16.37	19.02	19.75	19.23	20.28	20.82	22.07	22.32	24.52	16.74	17.56	20.19	23.19	28.55	28.90	25.16	24.10	18.48	21.66	26.91	27.98	28.74	25.83



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 $-30^{\circ}\text{C}\sim+80^{\circ}\text{C}$ 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