

SPECIFICATION

Shenzhen Guandetong Electronic Limited

*Shenzhen Guandetong Electronic Co., Ltd.*

Antenna; True: 2.4G/5.8G: 3dBi; White; L-220mm; With Terminal (Watof Ring
Wire Diameter 1.0mm)

Product Specification

connection	罡扇广联	frequency range	2400-2500MHZ 5150-5850MHZ
Frequency band wire name		edition	A1
Customer part number	1120-008-0086	Guandetong part number	
Guandeton g No			
R F design	XIAO	RF Manager	LILI
Structural design	WAN	Structure Manager	HUAN
Technical Director	ADD	Date	2026-05-12

Customer confirmation:

Does the assembly meet your company's requirements: ☐OK ☐NG

catalogue

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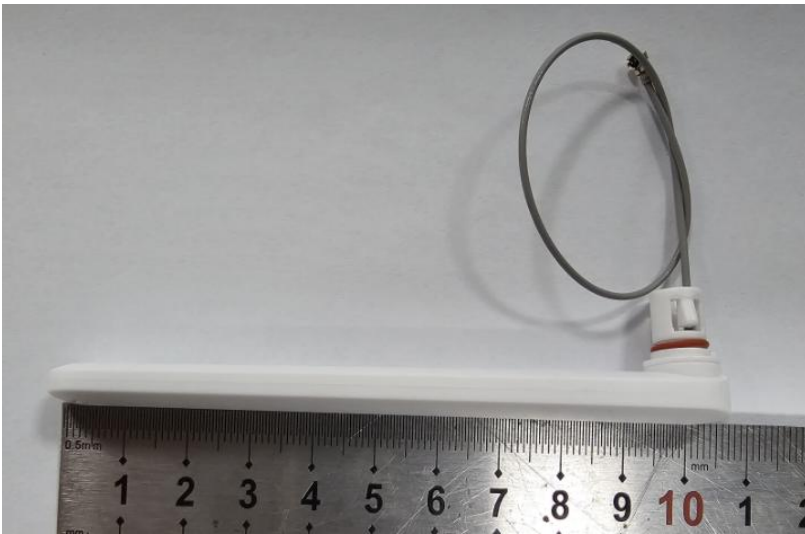
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一、 Product pictures



二、 Product parameters

Product testing parameters			
Product name	2.4G/5.8G Antenna	(Model Type)	
(Electrical Specifications)			
(Frenquency Range)	2400MHZ-2500MHZ 5150MHZ-5850MHZ	(Polarization)	perpendicular
(Impedance)	50Ω	Radiation	QXCOMM
(VSWR)	≦2.0	(Power)	50W
(Gain)	3dBi	(Bandwidth	100M
(Mechanical Specifications)			
(Dimensions)	104.7*12.8-+0.3mm	(Chassis Color)	white
(Connector)	IPEX	(Cable Length)	220±5MM
(Chassis Material)	ABS	Wire color	1.13 Gray
(Working Temperature)	-40℃-+85℃	(Limit Temperature)	-40℃-+85℃

三、S11(VSWR、Return、Smith)



四、Antenna gain and efficiency&Apple in 3D

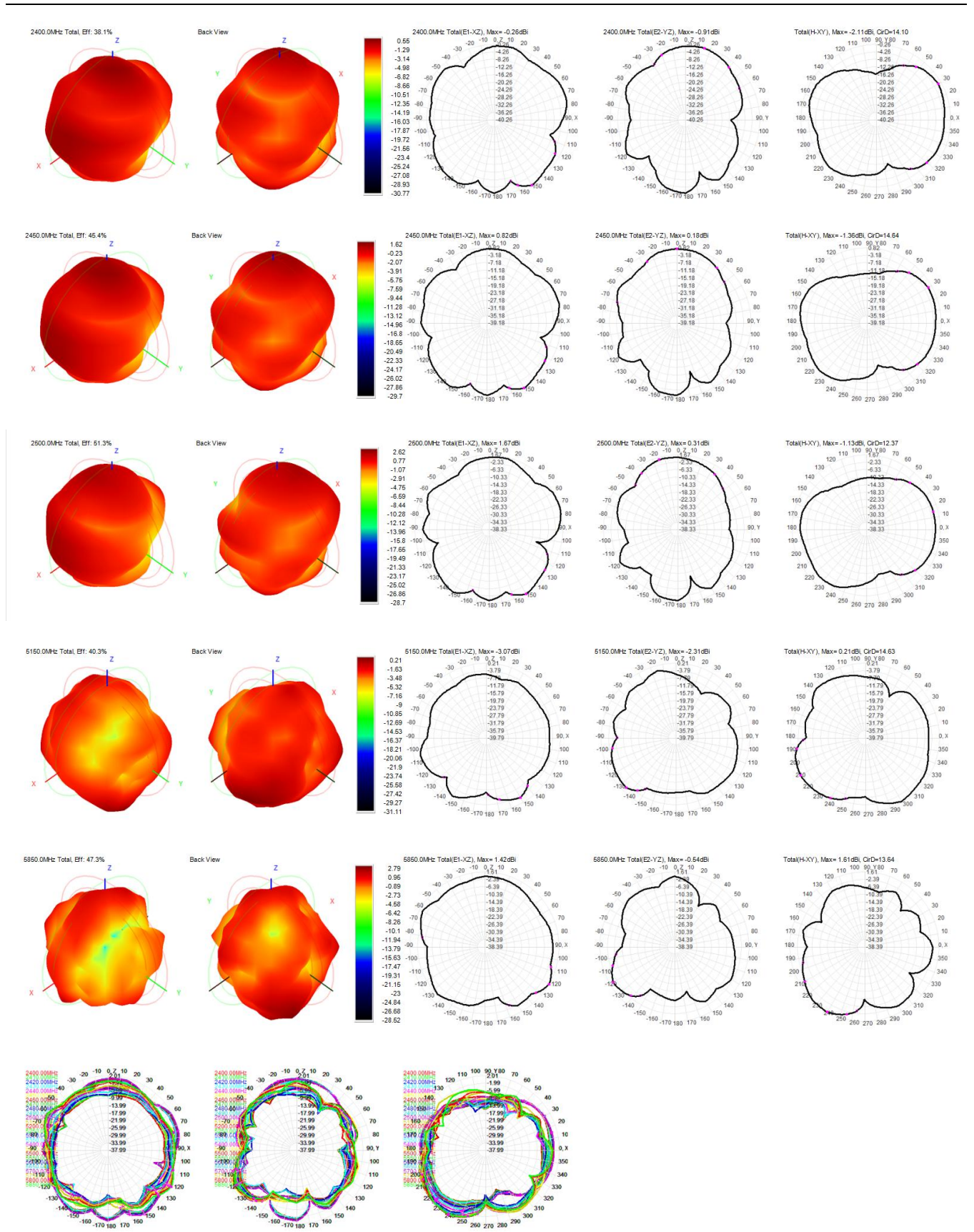
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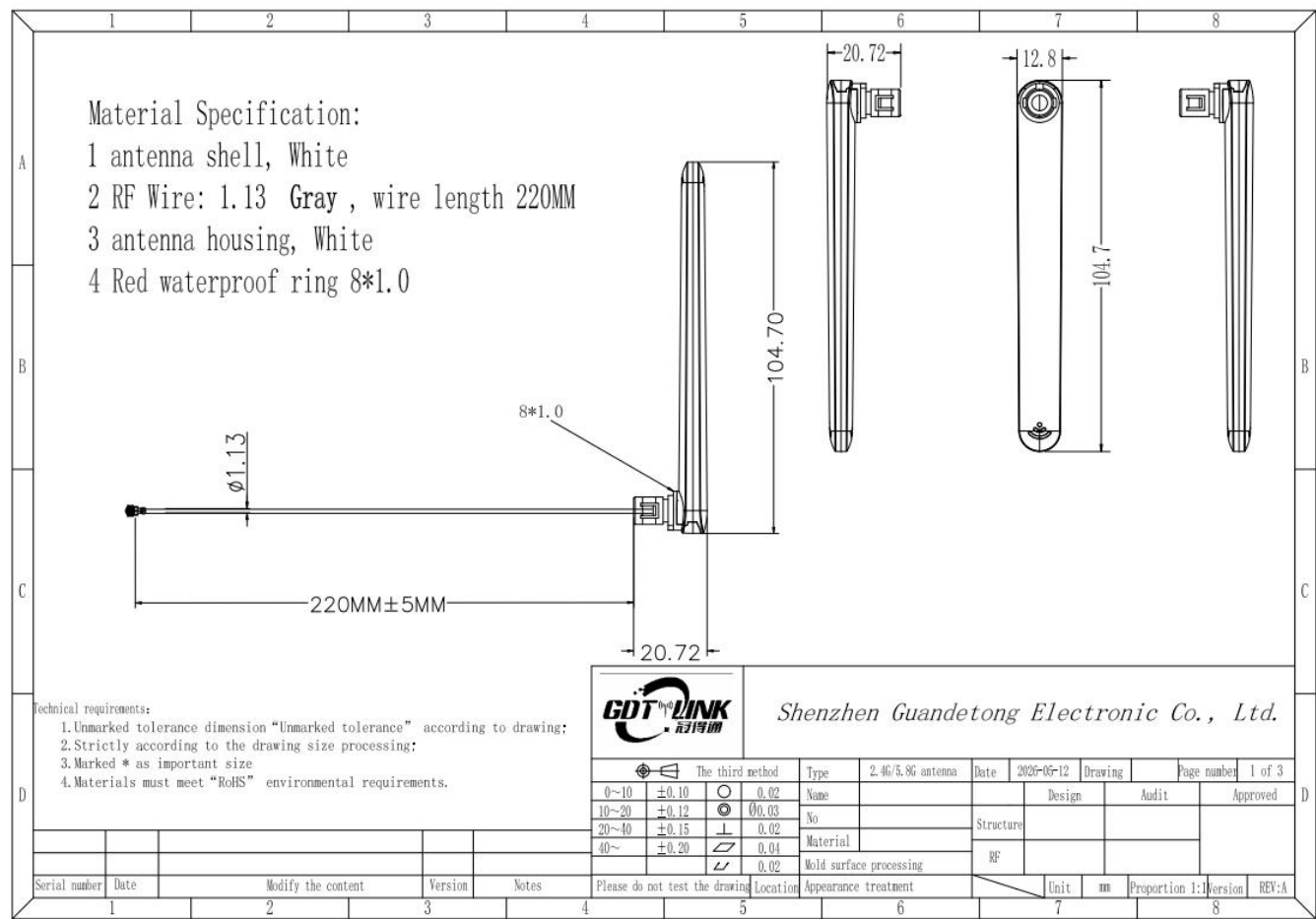
深圳市冠得通电子有限公司

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)	-4.19	-4.17	-4.00	-4.32	-3.62	-3.43	-3.52	-3.27	-3.16	-2.93	-2.90
增益 (dBi)	0.55	0.63	0.95	0.77	1.44	1.62	1.55	1.82	2.04	2.42	2.62
效率 (%)	38.06	38.29	39.77	37.01	43.41	45.42	44.45	47.04	48.29	50.97	51.29
方向性(dB)	4.74	4.80	4.96	5.08	5.07	5.04	5.07	5.09	5.20	5.35	5.52
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
最大增益位置(Phi)	210.00	345.00	345.00	345.00	345.00	345.00	345.00	345.00	345.00	345.00	345.00
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
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
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
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

12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	
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	
-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	-3.19	-3.25	
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	
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	
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	
90.00	135.00	135.00	105.00	105.00	105.00	105.00	105.00	90.00	90.00	105.00	105.00	105.00	105.00	105.00	
210.00	255.00	255.00	195.00	195.00	195.00	195.00	225.00	225.00	225.00	240.00	240.00	240.00	240.00	240.00	
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	
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	
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	
24.52	16.74	17.56	20.19	23.19	28.55	28.90	25.16	24.10	18.43	21.68	26.01	27.08	26.74	25.83	



五、Structural drawings



六、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 ℃~+80 ℃ 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