

SPECIFICATION

Shenzhen Guandetong Electronic Limited

*Shenzhen Guandetong Electronic Co., Ltd.*

Antenna, S52-4G white genuine antenna 1.13 black wire length 280MM
with terminals (red waterproof ring wire 1.2MM)

Product Specification

connection	深圳市视峰	frequency range	700-960MHz 1710-2690MHZ
Frequency band wire name		edition	A1
Customer part number	3.26.003. 100000T	Guandetong part number	
Guandetong No			
R F design	肖彬	RF Manager	刘亮
Structural design	王栋	Structure Manager	王华
Technical Director	叶定坤	Date	2025-10-22

Customer confirmation:

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

catalogue

Cover1

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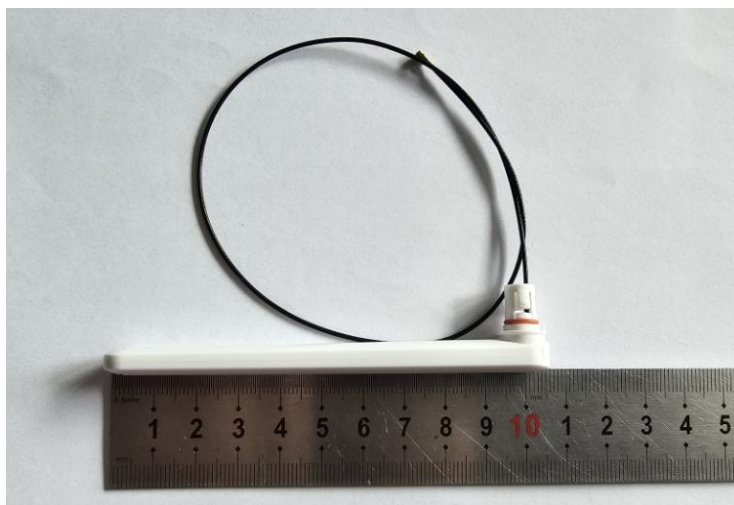
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一、 Product pictures



二、 Product parameters

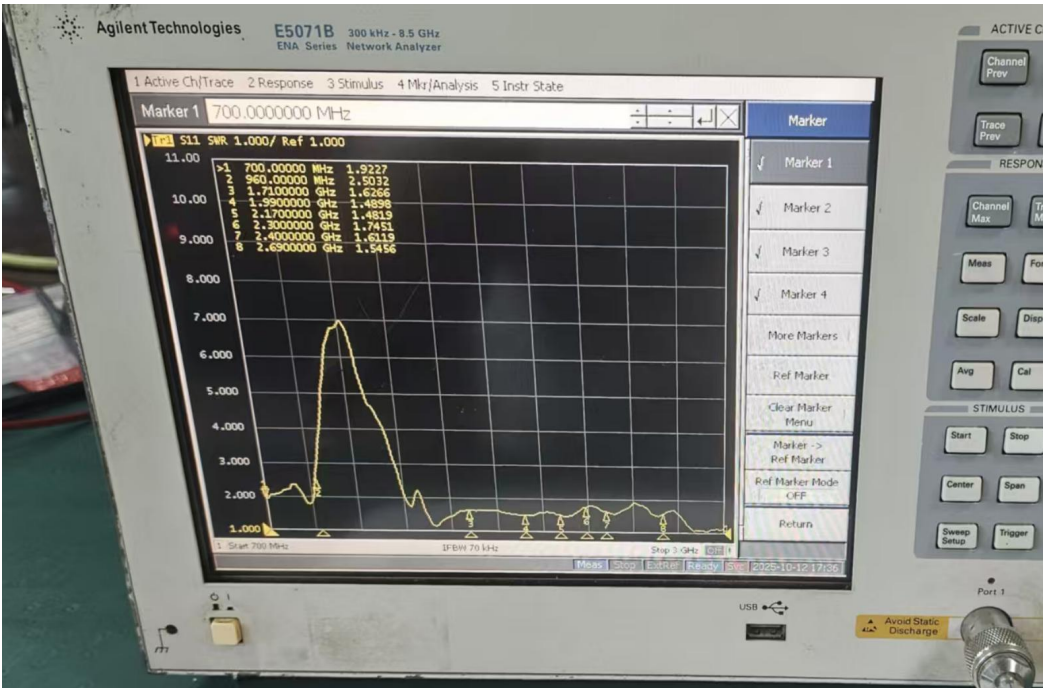
Product testing parameters			
Product name	4G antenna	(Model Type)	
(Electrical Specifications)			
(Frequency Range)	700-960MHz 1710-2690MHZ	(Polarization)	perpendicular
(Impedance)	50Ω	Radiation	Omnidirectional
(VSWR)	≤ 3.0	(Power)	50W
(Gain)	3dBi	(Bandwidth)	100M
(Mechanical Specifications)			
(Dimensions)	104.7*12.8-+0.3mm	(Chassis Color)	White
(Connector)	IPEX	(Cable Length)	280±3MM
(Chassis Material)	ABS		
(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. .

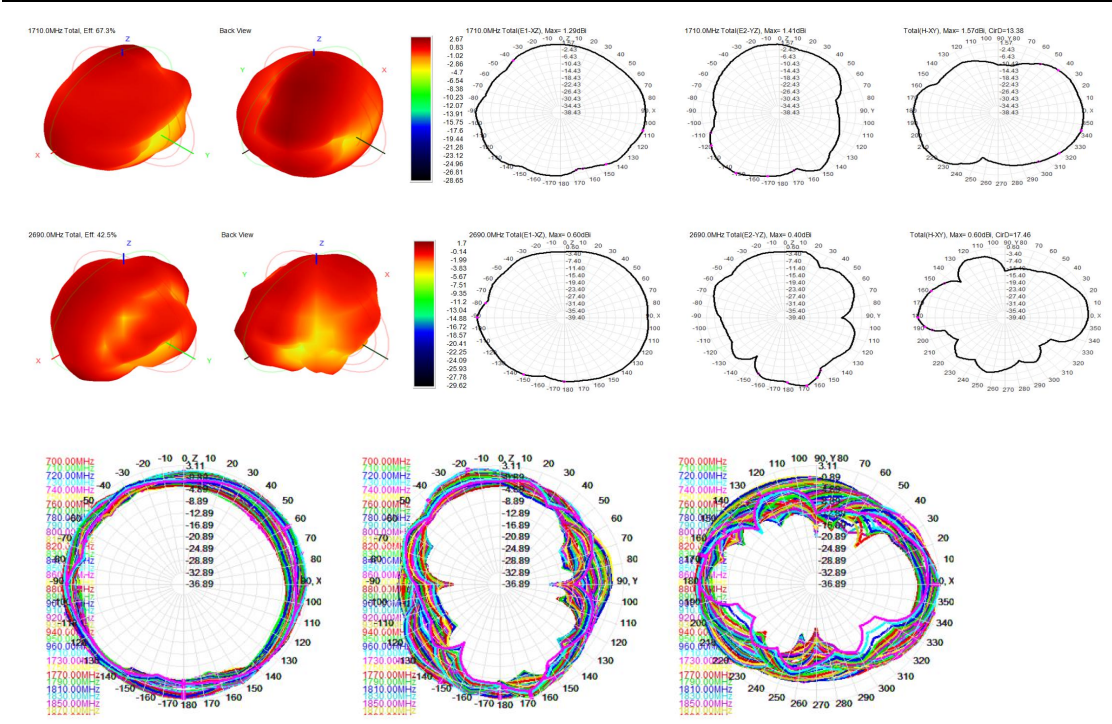
三、S11(VSWR、Return、Smith)数据



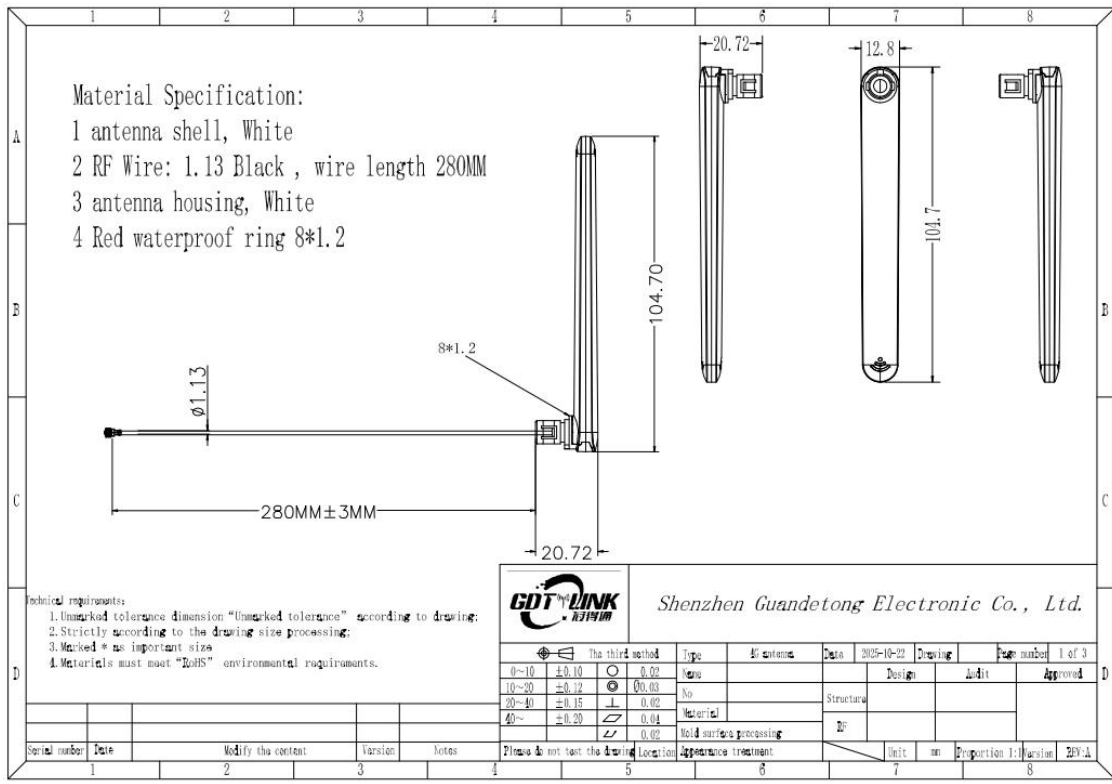
四、Antenna gain and efficiency&Apple in 3D

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	27	28	29
频率 (MHz)	700.0	710.0	720.0	730.0	740.0	750.0	760.0	770.0	780.0	790.0	800.0	810.0	820.0	830.0	840.0	850.0	860.0	870.0	880.0	890.0	900.0	910.0	920.0	930.0	940.0	950.0	960.0	1710.0	1730.0
增益 (dBi)	2.93	3.39	2.48	3.83	2.97	2.63	2.95	2.49	2.11	2.60	2.48	2.11	2.40	2.39	2.46	2.30	2.46	2.62	2.57	2.53	2.80	2.95	2.71	3.23	3.23	3.56	3.88	1.72	1.26
效率 (%)	6.79	0.33	1.08	1.18	1.26	2.02	1.51	1.80	2.17	1.58	1.51	1.51	1.42	1.66	1.57	1.56	1.39	1.15	1.30	1.26	1.33	1.44	1.33	1.34	1.45	1.14	2.67	2.56	
增益 (dB)	56.94	45.78	51.55	49.81	50.48	54.57	56.74	56.32	61.51	55.00	56.47	61.50	56.39	57.67	56.72	58.91	56.51	54.73	55.30	55.86	52.54	50.66	53.58	47.54	47.54	44.88	46.91	67.34	66.72
方位角 (deg)	3.22	2.73	3.96	4.21	4.23	4.45	4.46	4.39	4.28	4.18	3.90	4.02	3.91	4.05	4.02	3.86	3.87	3.77	3.88	3.79	4.05	4.26	4.15	4.56	4.57	4.61	5.02	4.39	4.33
最大增益位置 (theta)	135.00	165.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	165.00	75.00	90.00	90.00	90.00	90.00	90.00	90.00	90.00	180.00	180.00	180.00	180.00	180.00	180.00	180.00	180.00	180.00	105.00	105.00
最大增益位置 (phi)	150.00	60.00	135.00	150.00	150.00	150.00	150.00	150.00	45.00	165.00	165.00	165.00	165.00	165.00	165.00	165.00	165.00	165.00	28.00	118.00	90.00	14.00	75.00	29.00	131.00	10.00	120.00	345.00	345.00
水平极化效率 (%)	15.47	18.26	17.16	18.10	22.03	18.37	20.27	23.38	22.12	23.84	21.87	22.62	22.53	20.35	19.03	20.72	17.80	16.99	18.90	16.47	16.79	17.17	15.81	16.30	15.30	13.25	14.24	21.64	26.81
垂直极化效率 (%)	35.48	26.52	24.39	31.63	28.46	36.21	30.47	32.94	35.40	31.16	34.60	38.88	33.86	37.31	37.68	36.20	38.70	37.75	36.40	39.38	35.75	33.49	37.97	31.23	32.24	30.83	26.47	45.70	46.11
上半球效率 (%)	26.16	22.46	26.02	25.01	24.85	27.28	24.23	26.23	28.94	25.53	26.77	29.57	27.19	27.96	27.53	28.71	27.84	26.87	27.25	27.62	26.11	25.24	26.53	23.50	23.37	21.59	19.87	33.69	33.58
下半球效率 (%)	24.70	23.32	25.54	24.80	25.64	27.29	26.51	30.09	32.57	29.47	29.70	31.03	29.20	29.71	29.19	30.30	28.86	27.86	28.85	28.24	28.43	25.43	27.05	24.04	24.16	22.48	20.94	33.65	33.15

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五、Product Structure Diagram



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

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

<http://www.szgdtrf.com>