

SPECIFICATION

Shenzhen Guandetong Electronic Limited

*Shenzhen Guandetong Electronic Co., Ltd.*2.4G/5.8G Dual-band Gunmetal Grey Arrow Antenna 1.13 Grey L250 mm

Product Specification

connection		frequency range	2400-2500MHZ 5150-5800MHZ
Frequency band wire name		edition	A1
Customer part number		Guandetong part number	
Guandetong No			
R F design	xiao	RF Manager	li
Structural design	WANG	Structure Manager	Hwo
Technical Director	ADD	Date	2025-11-06

Customer confirmation:

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

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. .

catalogue

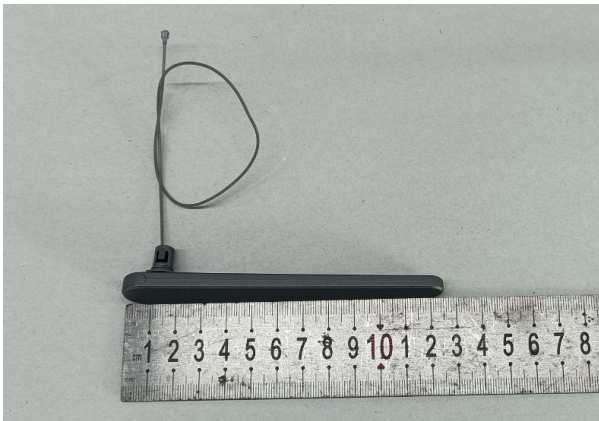
Cover	1
catalogue.....	2
一、 Product pictures	3
二、 Product parameters	3
三、 S11(VSWR、 Return、 Smith)	4
四、 Structural drawings.....	4
五、 Antenna gain and efficiency.....	5
六、 2D&3D images.....	6
七、 Environmental performance test.....	7

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. .

一、 Product pictures



二、 Product parameters

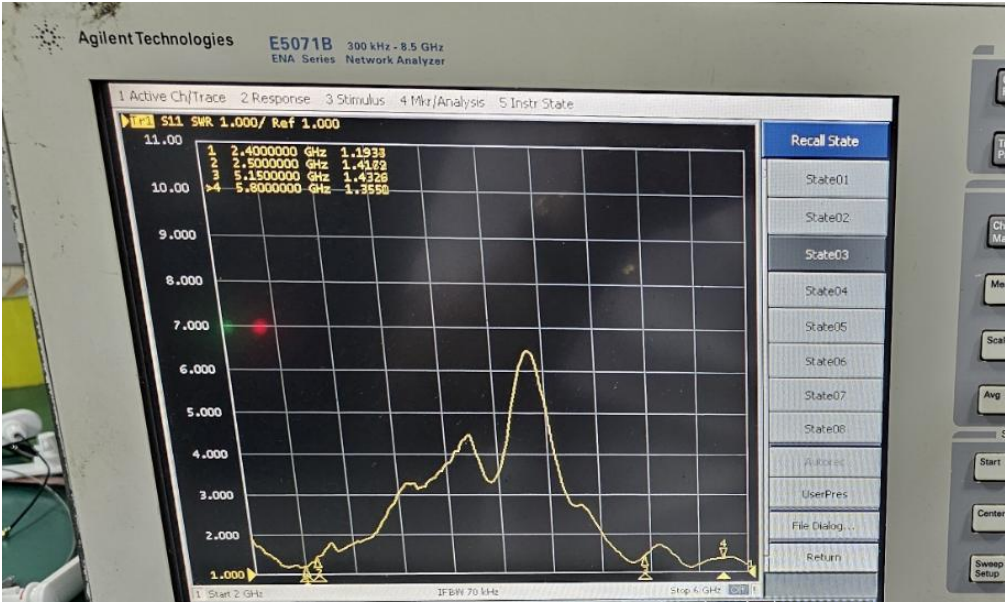
Product testing parameters			
Product name	2.4G/5.8G antenna	(Model Type)	
(Electrical Specifications)			
(Frenquency Range)	2400-2500MHZ 5150-5800MHZ	(Polarization)	perpendicular
(Impedance)	50Ω	Radiation	QXCOMM
(VSWR)	≦2.0	(Power)	50W
(Gain)	4.28dBi	(Bandwidth	100MHz
(Mechanical Specifications)			
(Dimensions)	123.5 ± 2MM&17.8 ± 1MM&11.4±0.5mm	(Chassis Color)	Gunmetal gray
(Connector)	IPEX	(Cable Length)	250±3MM
(Chassis Material)	ABS	Wire color	1.13 Grey
(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

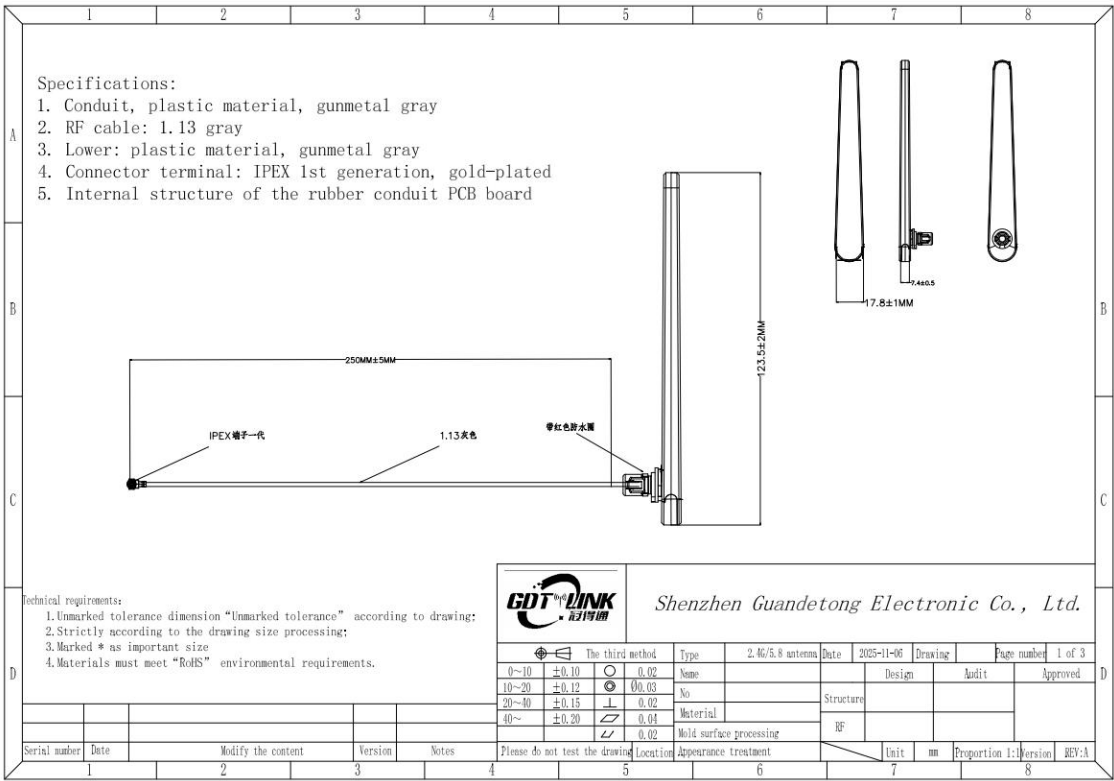
<http://www.szgdtrf.com>

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、Structural drawings



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

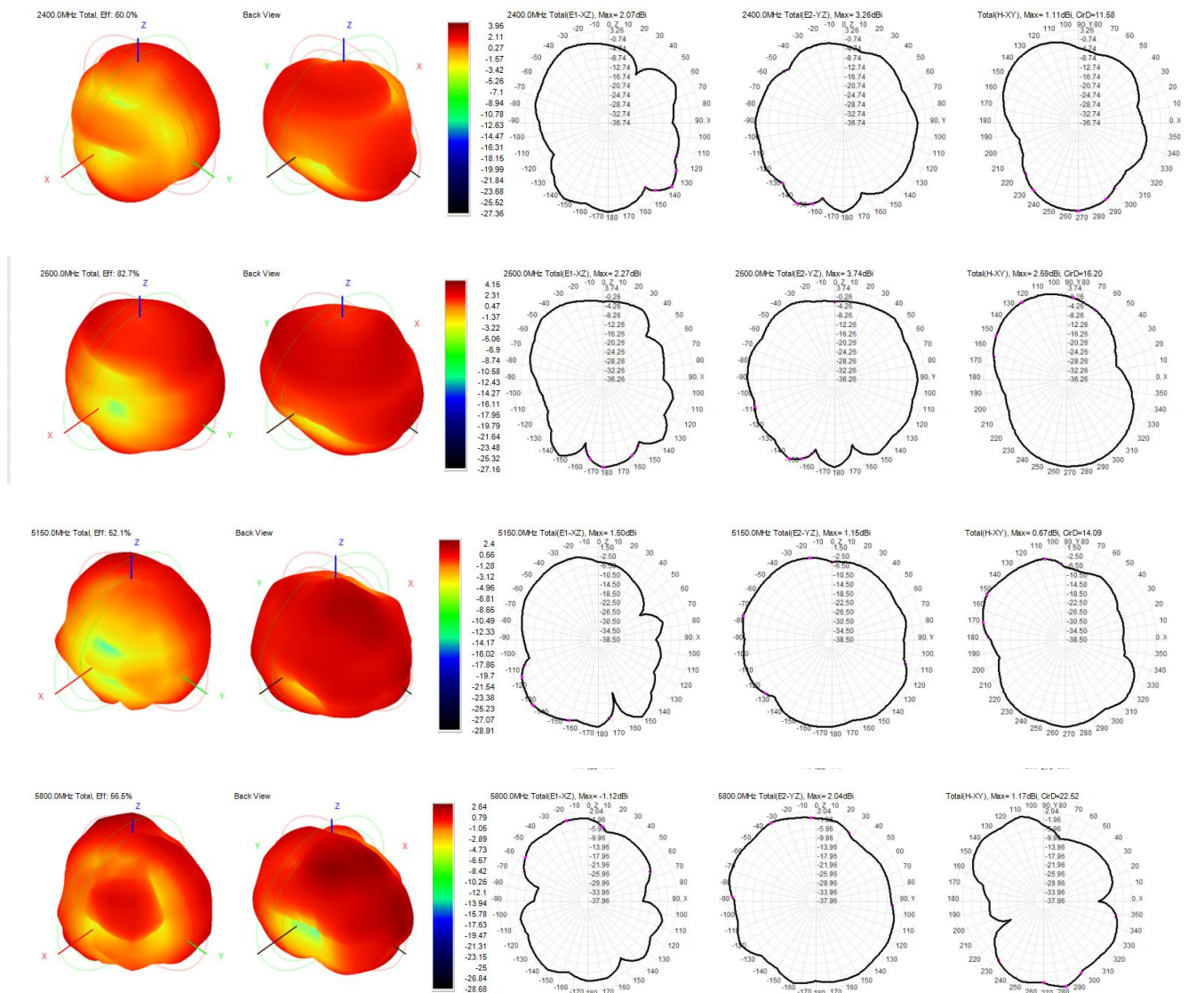
<http://www.szgdtrf.com>

Confidentiality requirements of Shenzhen 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. .

五、Antenna gain and efficiency

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
频率(MHz)	2400.0	2410.0	2420.0	2430.0	2440.0	2450.0	2460.0	2470.0	2480.0	2490.0	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	
增益(dBi)	2.22	2.06	1.87	1.84	1.59	1.39	1.18	1.10	1.10	0.98	0.82	2.84	3.58	3.20	2.50	3.09	3.04	1.95	2.44	3.14	3.02	2.58	3.31	2.68	2.48
效率(%)	59.99	62.18	65.00	65.45	69.33	72.58	76.18	77.55	77.56	79.82	82.72	52.06	43.83	47.92	56.24	49.04	49.67	63.82	57.01	48.56	49.94	55.15	46.63	53.96	56.52
方向性(dB)	6.17	6.20	6.12	6.04	5.88	5.69	5.52	5.36	5.24	5.08	4.98	5.24	5.86	5.93	6.49	6.80	6.89	6.77	6.61	6.20	5.64	5.55	5.24	5.10	5.11
最大增益位置(theta)	150.00	150.00	150.00	150.00	150.00	150.00	150.00	150.00	150.00	150.00	150.00	135.00	135.00	135.00	135.00	135.00	135.00	135.00	135.00	135.00	150.00	150.00	150.00	150.00	150.00
最大增益位置(phi)	255.00	255.00	255.00	255.00	255.00	255.00	255.00	255.00	255.00	255.00	255.00	165.00	165.00	165.00	165.00	165.00	165.00	165.00	165.00	165.00	150.00	150.00	150.00	150.00	150.00
水平极化效率(%)	22.71	21.97	21.59	20.48	20.40	20.31	20.40	20.25	19.86	20.26	20.93	14.99	12.87	15.96	17.22	15.56	16.38	20.50	18.20	14.72	15.90	17.07	13.38	15.16	16.02
垂直极化效率(%)	37.28	40.21	43.42	44.97	48.93	52.27	55.79	57.30	57.70	58.56	61.79	37.06	30.96	32.86	39.02	33.48	33.29	43.32	38.81	33.84	34.04	38.68	33.25	38.81	40.49
上半球效率(%)	23.91	25.69	27.83	28.90	31.61	34.02	36.44	37.58	37.87	39.35	41.00	24.16	20.11	22.21	25.77	22.56	22.68	29.33	25.72	22.24	23.23	26.02	22.01	25.81	27.32
下半球效率(%)	36.09	36.49	37.18	36.55	37.72	38.56	39.74	39.97	39.69	40.47	41.71	27.90	23.72	25.70	30.47	26.48	26.99	34.48	31.29	26.32	26.71	29.12	24.62	28.15	29.20

六、2D&3D images



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. .

七、 Environmental performance test

project	Project test conditions	Specificat ions
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 conditions1-2H, check the appearance quality.	The size shall meet the requirements and Mechanical and electrical performance
Constant damp heat resistance test	Relative humidity: $95 \pm 3\%$, 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>