

SPECIFICATION

Shenzhen Guandetong Electronic Limited



深圳市冠得通电子有限公司

*Shenzhen Guandetong Electronic Co., Ltd.***2.4G/5G Antenna+connecting wire (11 tooth male needle)**

Product specification sheet

Customer	Cheng an	Frequency band	2400MHz—2500MHz 5100MHZ-5800MHZ
Wire name		version	A1
Customer Part Number			
Guande Tong Number			
RF Design	Xiao Bin	RF Manager	Liu Liang
structural design	Wang Dong	Structural Manager	Wang Hua
Technical Director	Ye Dingkun	Date	2024-3-20

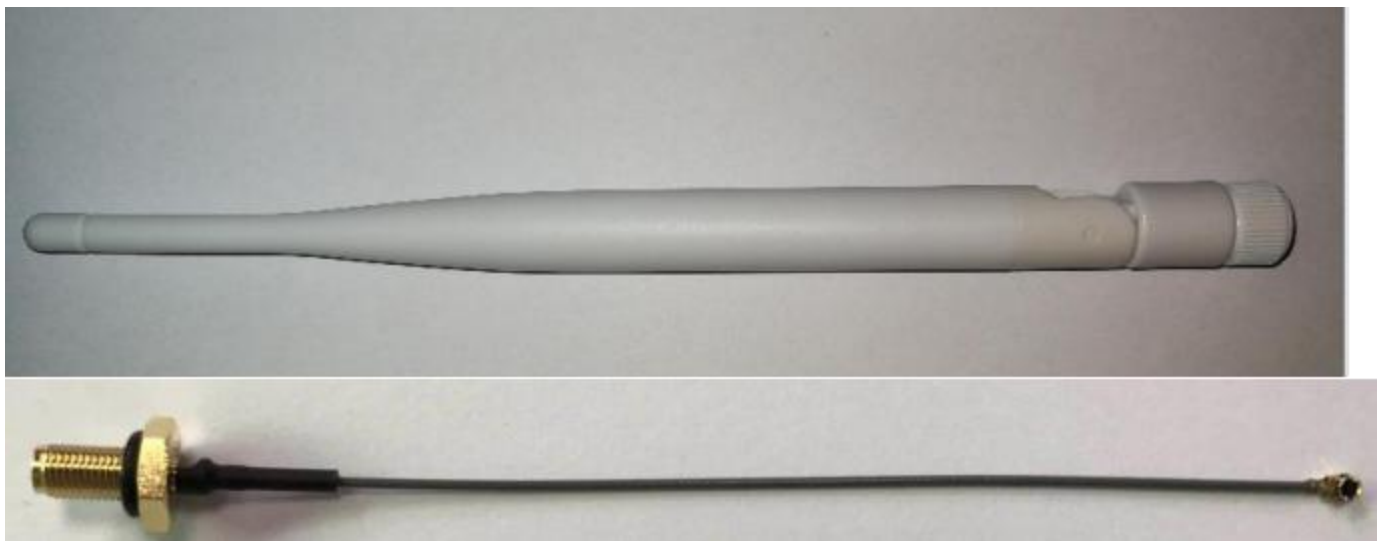
Customer confirmation:

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

Electrical technical parameters

电 性 能 指 标		Electrical Specifications	
频率范围	2400MHz-2500MHz 5200MHZ-5800MHZ	Frequency Range	2400MHz——2500MHz 5200MHZ-5800MHZ
电压驻波比	≤2.0	VSWR	≤2.0
增益	2.4G:3.09DBI/5.2G 1.11DBI	GAIN	2.4G:3.09DBI/5.2G 1.11DBI
输入阻抗	50 Ω	Input Impedance	50 Ω
机 械 指 标		Mechanical Specifications	
天线颜色	米白色	Antenna Color	WHITE
接口形式	SMA-公	Input connector	RP-SMA
线长度	195mm	Cable length	195mm
工作温度	-40℃~+85℃	Working Temperature	-40℃~+85℃
工作湿度	20~80%	Working Humidity	20~80%
天线类型	棒状天线	Antenna Type:	Rubber Duck Antenna
天线厂家英文公司名: Shenzhen Superbat Electronics Co., Ltd. 天线厂家英文地址: 501A, workshop 6, JiangHao (Bantian) industrial plant, No.430, Jihua Road, Bantian community, Bantian street, Longgang District, Shenzhen City, Guangdong, P.R.China			

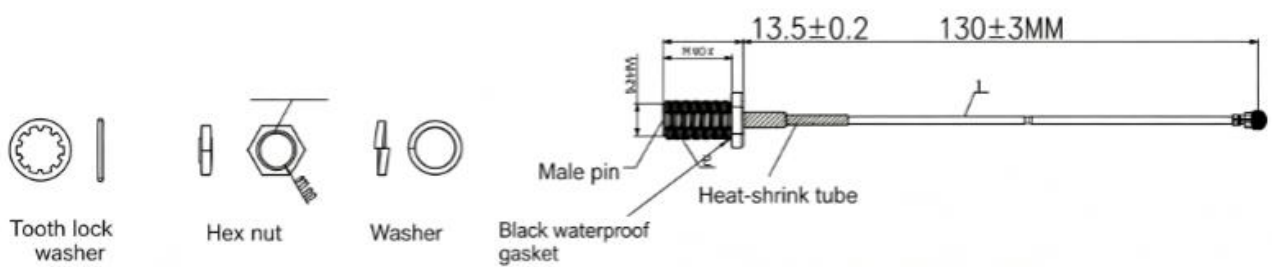
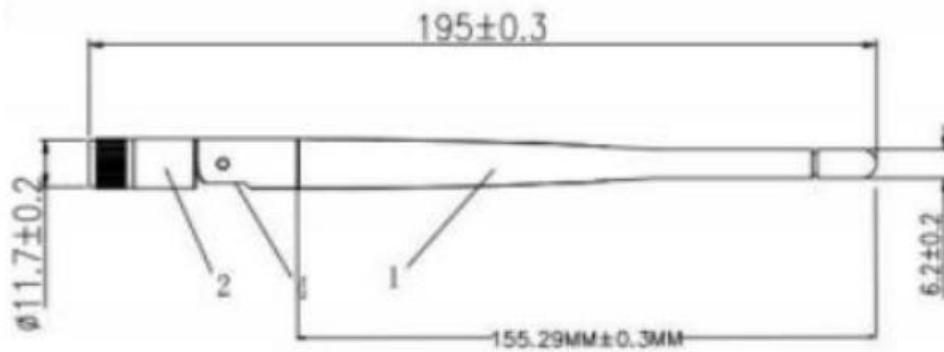
Send sample pictures:

www.szdtrf.com

Confidentiality requirements

Shenzhen Guandetong Electronics Co., Ltd. already possesses proprietary technology and provides confidential information. Without the prior written consent of Shenzhen Guandetong Electronics Co., Ltd., it is not allowed to disclose this proprietary information to anyone or any company.

Antenna size

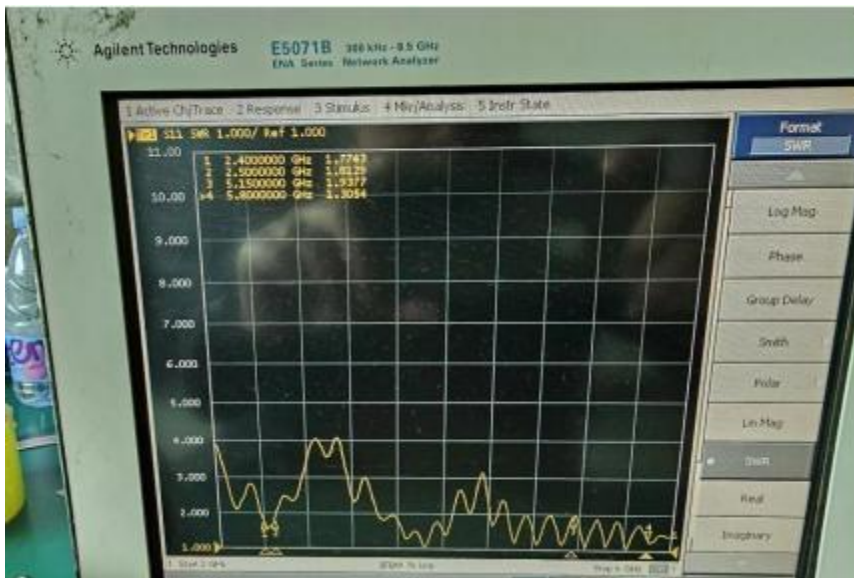


www.szgdtf.com

Confidentiality requirements

Shenzhen Guandetong Electronics Co., Ltd. already possesses proprietary technology and provides confidential information. Without the prior written consent of Shenzhen Guandetong Electronics Co., Ltd., it is not allowed to disclose this proprietary information to anyone or any company.

Network analysis testing: Return loss data



Antenna gain and efficiency

Test Point ID	Freq. (MHz)	TRP (dBm)	Gain (dBi)	Directivity (dBi)	Efficiency (%)	Efficiency (dB)	Max (dBm)	Theta of Max	Phi of Max	Min (dBm)	Theta of Min	Phi of Min	AVG (dBm)	Max/Min (dB)	Max/AVG (dB)	Min/AVG (dB)
1	2400.0	2400.00	1.67	5.87	38.0%	-4.20	1.67	9000	16680	-95.99	0	0	-5.04	97.66	6.70	-90.95
2	2410.0	2410.00	1.97	6.17	38.0%	-4.20	1.97	9000	16680	-95.99	0	0	-4.84	97.96	6.81	-91.15
3	2420.0	2420.00	2.35	6.47	38.8%	-4.11	2.35	9000	16680	-95.99	0	0	-4.52	98.34	6.87	-91.47
4	2430.0	2430.00	2.95	6.73	41.8%	-3.78	2.95	9000	16680	-95.99	0	0	-4.05	98.93	7.00	-91.94
5	2440.0	2440.00	2.81	6.71	40.8%	-3.90	2.81	9000	16680	-95.99	0	0	-4.25	98.80	7.06	-91.74
6	2450.0	2450.00	2.73	6.72	39.9%	-3.99	2.73	9000	16680	-95.99	0	0	-4.37	98.72	7.09	-91.62
7	2460.0	2460.00	2.91	6.80	40.8%	-3.89	2.91	9000	8000	-95.99	0	0	-4.30	98.89	7.20	-91.69
8	2470.0	2470.00	3.01	6.78	42.0%	-3.77	3.01	9000	8000	-95.99	0	0	-4.40	99.00	7.41	-91.59
9	2480.0	2480.00	2.94	6.63	42.8%	-3.69	2.94	9000	8000	-95.99	0	0	-4.71	98.93	7.65	-91.28
10	2490.0	2490.00	3.05	6.76	42.5%	-3.71	3.05	9000	6000	-95.99	0	0	-4.81	99.04	7.85	-91.18
11	2500.0	2500.00	3.09	6.78	42.7%	-3.69	3.09	9000	6000	-95.99	0	0	-4.84	99.07	7.92	-91.15
12	5100.0	5100.00	0.23	7.41	19.1%	-7.19	0.23	7500	1500	-95.99	0	0	-7.35	96.22	7.57	-88.64
13	5120.0	5120.00	0.11	7.49	18.3%	-7.38	0.11	7500	1500	-95.99	0	0	-7.73	96.10	7.84	-88.26
14	5140.0	5140.00	1.10	7.36	23.7%	-6.26	1.10	7500	1500	-95.99	0	0	-6.56	97.09	7.66	-89.43
15	5160.0	5160.00	0.92	7.06	24.3%	-6.15	0.92	7500	1500	-95.99	0	0	-6.68	96.91	7.60	-89.31
16	5180.0	5180.00	0.96	6.88	25.6%	-5.92	0.96	7500	1500	-95.99	0	0	-6.55	96.95	7.51	-89.44
17	5200.0	5200.00	1.11	6.74	27.4%	-5.63	1.11	7500	1500	-95.99	0	0	-6.64	97.10	7.75	-89.35
18	5220.0	5220.00	0.04	6.24	24.0%	-6.20	0.04	7500	1500	-95.99	0	0	-7.38	96.03	7.41	-88.61
19	5240.0	5240.00	0.99	6.75	26.6%	-5.76	0.99	7500	1500	-95.99	0	0	-6.86	96.98	7.85	-89.13
20	5260.0	5260.00	1.10	7.11	25.1%	-6.01	1.10	7500	1500	-95.99	0	0	-6.78	97.08	7.87	-89.21
21	5280.0	5280.00	1.41	6.28	32.6%	-4.87	1.41	7500	1500	-95.99	0	0	-5.57	97.40	6.98	-90.42
22	5300.0	5300.00	2.17	6.36	38.1%	-4.20	2.17	10500	1500	-95.99	0	0	-4.85	98.16	7.02	-91.14
23	5320.0	5320.00	2.68	6.02	45.4%	-3.33	2.68	9000	10500	-95.99	0	0	-4.33	98.67	7.01	-91.66
24	5340.0	5340.00	2.55	5.69	48.5%	-3.15	2.55	9000	10500	-95.99	0	0	-4.04	98.54	6.58	-91.95
25	5360.0	5360.00	2.73	5.74	50.1%	-3.01	2.73	9000	10500	-95.99	0	0	-3.85	98.72	6.58	-92.14
26	5380.0	5380.00	2.44	5.68	47.4%	-3.24	2.44	7500	1500	-95.99	0	0	-3.88	98.43	6.32	-92.11
27	5400.0	5400.00	2.56	6.33	41.9%	-3.78	2.56	9000	10500	-95.99	0	0	-4.33	98.54	6.88	-91.65
28	5420.0	5420.00	2.66	6.59	40.4%	-3.93	2.66	4500	3000	-95.99	0	0	-4.16	98.65	6.82	-91.83
29	5440.0	5440.00	3.27	7.01	42.2%	-3.75	3.27	4500	3000	-95.99	0	0	-3.88	99.26	7.15	-92.11
30	5460.0	5460.00	3.67	7.51	41.3%	-3.84	3.67	4500	3000	-95.99	0	0	-3.90	99.66	7.57	-92.09
31	5480.0	5480.00	3.67	7.35	42.9%	-3.68	3.67	4500	3000	-95.99	0	0	-3.96	99.66	7.65	-92.01
32	5500.0	5500.00	4.80	7.55	53.0%	-2.76	4.80	4500	3000	-95.99	0	0	-3.13	100.78	7.93	-92.86
33	5520.0	5520.00	4.39	6.91	56.0%	-2.52	4.39	4500	3000	-95.99	0	0	-3.11	100.38	7.50	-92.88
34	5540.0	5540.00	3.87	7.10	47.8%	-3.22	3.87	4500	3000	-95.99	0	0	-3.96	99.86	7.83	-92.03
35	5560.0	5560.00	3.71	6.96	47.4%	-3.24	3.71	4500	3000	-95.99	0	0	-4.06	99.70	7.78	-91.93
36	5580.0	5580.00	3.58	6.71	48.6%	-3.13	3.58	4500	3000	-95.99	0	0	-3.85	99.57	7.43	-92.14
37	5600.0	5600.00	3.88	6.93	49.6%	-3.05	3.88	4500	3000	-95.99	0	0	-3.98	99.87	7.86	-92.01
38	5620.0	5620.00	2.64	5.92	46.9%	-3.29	2.64	7500	1500	-95.99	0	0	-4.02	98.63	6.66	-91.97
39	5640.0	5640.00	3.87	6.73	51.7%	-2.87	3.87	7500	1500	-95.99	0	0	-3.59	99.86	7.46	-92.40
40	5660.0	5660.00	3.83	6.36	55.8%	-2.54	3.83	6000	1500	-95.99	0	0	-3.39	99.82	7.22	-92.60
41	5680.0	5680.00	4.67	6.57	64.5%	-1.90	4.67	12000	7500	-95.99	0	0	-3.00	100.66	7.67	-92.99
42	5700.0	5700.00	5.40	7.57	60.6%	-2.17	5.40	12000	6000	-95.99	0	0	-3.06	101.39	8.45	-92.93
43	5720.0	5720.00	4.89	7.02	61.2%	-2.13	4.89	12000	6000	-95.99	0	0	-2.86	100.88	7.75	-93.13
44	5740.0	5740.00	4.26	6.63	57.9%	-2.37	4.26	12000	1500	-95.99	0	0	-3.24	100.25	7.49	-92.75
45	5760.0	5760.00	3.86	6.41	55.6%	-2.55	3.86	12000	8000	-95.99	0	0	-3.38	99.85	7.24	-92.61
46	5780.0	5780.00	3.30	5.96	54.1%	-2.67	3.30	9000	7500	-95.99	0	0	-3.55	99.29	6.85	-92.44
47	5800.0	5800.00	2.80	6.09	46.9%	-3.29	2.80	12000	1500	-95.99	0	0	-4.49	98.79	7.29	-91.50

www.szgdtrf.com

Confidentiality requirements

Shenzhen Guandetong Electronics Co., Ltd. already possesses proprietary technology and provides confidential information. Without the prior written consent of Shenzhen

Guandetong Electronics Co., Ltd., it is not allowed to disclose this proprietary information to anyone or any company.

