

SPECIFICATION

Shenzhen Guandetong Electronic Limited



深圳市冠得通电子有限公司

Shenzhen Guandetong Electronic Co., Ltd.

2.4G/5.8G Black 5DB blade antenna 1.13 Grey cable
length 200MM with terminals

产 品 规 格 书

Product specification book

Address: 3rd Floor, Building D, Maoyuan Industrial Park,
Huanguan South, Guanhu Street, Longhua District,
Shenzhen

TEL: 0755-88298396 FAX: 0755-89733896

<http://www.szgdtrf.com>

1. Product pictures



2. Product parameters

Product test parameter			
产品名称(Name)	2.4G/5.8G Antenna	产品型号(Model Type)	
电 性 能 指 标 (Electrical Specifications)			
频率范围 (Frequency Range)	2400MHz-2500MHz 5000MHz-5800MHz	极化方式 (Polarization)	vertical
输入阻抗(Impedance)	50 Ω	辐射方向 (radiation direction)	omnibearing
驻波比 (VSWR)	≤ 2.0	功率容量(Power)	50W
增益(Gain)	5dBi	带宽 (Bandwidth)	100MHz
机 械 指 标 (Mechanical Specifications)			
尺寸 (Dimensions)	195MM-+0.3mm	外壳颜色(Radome Color)	black
连接器型号 (Connector)	IPEX 一代端子	引线长度(Cable Length)	200-+3mm
外壳材料 Radome Material	ABS	wire	1.13 grey
工作温度 (Working Temperature)	-40℃-+85℃	存放温度 (Limit Temperature)	-40℃-+85℃

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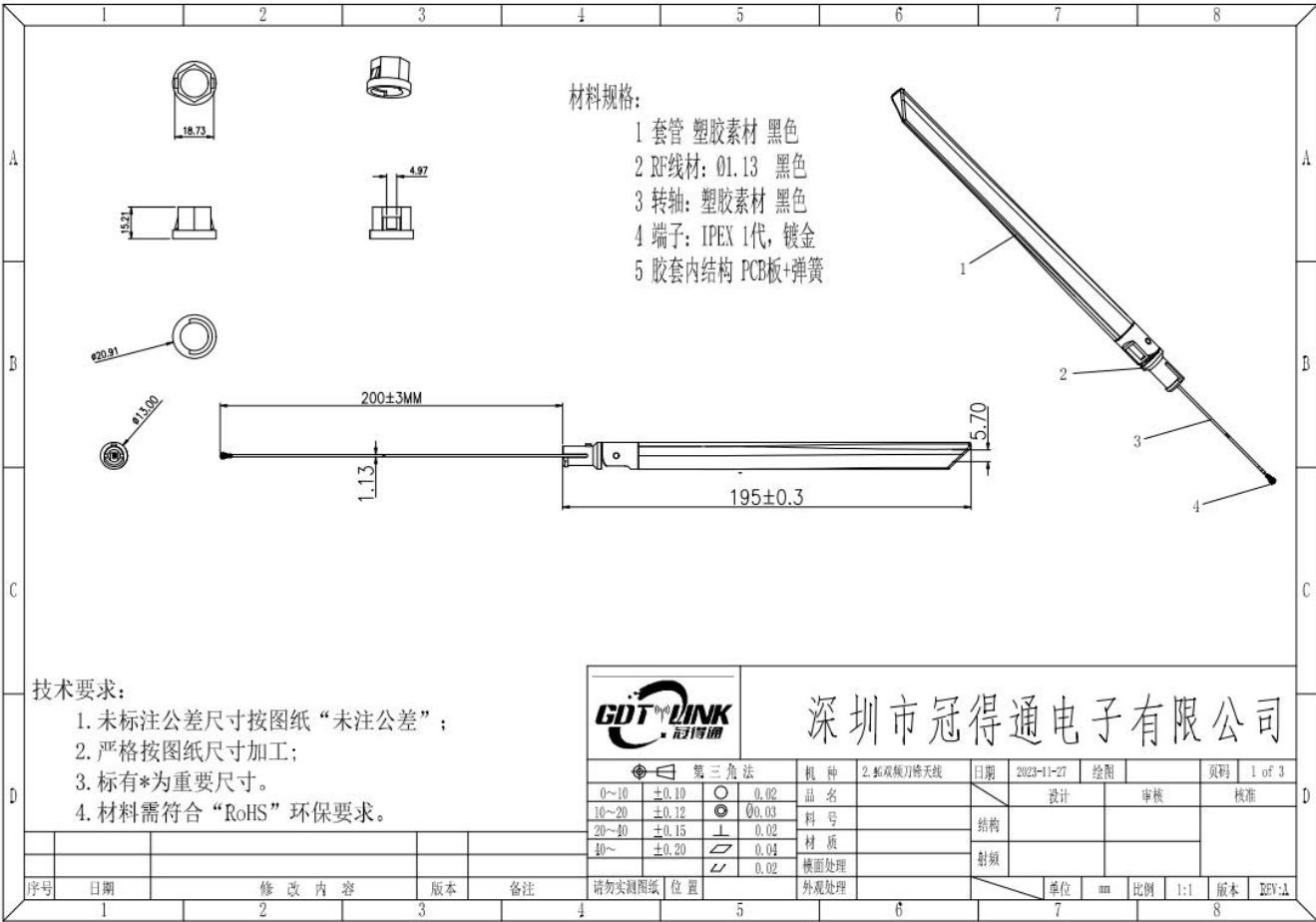
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3、VSWR 、Return loss 、Smith DATE



4.product structure diagram



5. Antenna gain and 3D diagram

Test Point ID	Freq. (MHz)	TRP (dBm)	Gain (dBi)	Directivity (dB)	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	3.03	7.83	34.6%	-4.60	3.03	10500	7500	-95.99	0	0	-5.73	99.02	8.76	-90.26
2	2410.0	2410.00	3.19	7.86	34.2%	-4.66	3.19	10500	7500	-95.99	0	0	-5.58	99.18	8.77	-90.41
3	2420.0	2420.00	3.54	8.13	34.7%	-4.59	3.54	10500	7500	-95.99	0	0	-5.27	99.53	8.81	-90.72
4	2430.0	2430.00	4.02	8.20	38.2%	-4.18	4.02	10500	7500	-95.99	0	0	-4.72	100.01	8.74	-91.27
5	2440.0	2440.00	3.67	8.08	36.2%	-4.41	3.67	10500	7500	-95.99	0	0	-5.02	99.66	8.69	-90.97
6	2450.0	2450.00	3.37	7.97	34.6%	-4.80	3.37	10500	7500	-95.99	0	0	-5.23	99.36	8.60	-90.76
7	2460.0	2460.00	3.44	7.91	35.8%	-4.46	3.44	10500	7500	-95.99	0	0	-5.11	99.43	8.56	-90.87
8	2470.0	2470.00	3.29	7.69	36.4%	-4.39	3.29	10500	7500	-95.99	0	0	-5.26	99.28	8.55	-90.73
9	2480.0	2480.00	3.09	7.31	37.9%	-4.22	3.09	10500	7500	-95.99	0	0	-5.46	99.08	8.56	-90.53
10	2490.0	2490.00	2.98	7.28	37.1%	-4.30	2.98	10500	7500	-95.99	0	0	-5.63	98.97	8.61	-90.36
11	2500.0	2500.00	2.97	7.30	36.9%	-4.33	2.97	10500	7500	-95.99	0	0	-5.72	98.96	8.69	-90.27
12	5100.0	5100.00	2.07	5.88	41.6%	-3.81	2.07	3000	3000	-95.99	0	0	-3.88	98.06	5.95	-92.11
13	5120.0	5120.00	1.19	5.51	37.0%	-4.32	1.19	6000	3000	-95.99	0	0	-4.58	97.18	5.77	-91.41
14	5140.0	5140.00	1.87	5.91	39.4%	-4.05	1.87	3000	3000	-95.99	0	0	-4.23	97.86	6.10	-91.76
15	5160.0	5160.00	1.73	5.85	38.7%	-4.12	1.73	6000	1500	-95.99	0	0	-4.54	97.72	6.27	-91.45
16	5180.0	5180.00	2.75	6.79	39.4%	-4.04	2.75	6000	3000	-95.99	0	0	-4.55	98.74	7.30	-91.44
17	5200.0	5200.00	2.59	6.19	43.6%	-3.61	2.59	6000	3000	-95.99	0	0	-4.54	98.58	7.12	-91.45
18	5220.0	5220.00	1.74	6.38	34.3%	-4.64	1.74	6000	3000	-95.99	0	0	-5.74	97.73	7.48	-90.25
19	5240.0	5240.00	2.11	6.55	36.0%	-4.43	2.11	6000	3000	-95.99	0	0	-5.50	98.10	7.61	-90.49
20	5260.0	5260.00	2.07	7.20	30.7%	-5.12	2.07	6000	3000	-95.99	0	0	-5.86	98.06	7.93	-90.13
21	5280.0	5280.00	2.71	7.26	35.0%	-4.55	2.71	6000	1500	-95.99	0	0	-5.27	98.70	7.98	-90.72
22	5300.0	5300.00	3.77	7.84	39.3%	-4.06	3.77	6000	1500	-95.99	0	0	-4.72	99.76	8.49	-91.27
23	5320.0	5320.00	3.21	6.87	43.1%	-3.66	3.21	6000	1500	-95.99	0	0	-4.71	99.20	7.93	-91.28
24	5340.0	5340.00	3.45	6.66	47.8%	-3.20	3.45	6000	3000	-95.99	0	0	-4.18	99.44	7.64	-91.81
25	5360.0	5360.00	4.05	7.28	47.5%	-3.23	4.05	6000	1500	-95.99	0	0	-4.23	100.03	8.28	-91.76
26	5380.0	5380.00	3.74	7.11	46.0%	-3.37	3.74	6000	1500	-95.99	0	0	-4.25	99.73	7.99	-91.74
27	5400.0	5400.00	3.54	7.31	42.0%	-3.76	3.54	6000	1500	-95.99	0	0	-4.54	99.53	8.08	-91.45
28	5420.0	5420.00	3.58	7.60	39.6%	-4.02	3.58	6000	1500	-95.99	0	0	-4.49	99.57	8.07	-91.50
29	5440.0	5440.00	2.92	6.80	40.9%	-3.88	2.92	6000	1500	-95.99	0	0	-4.18	98.91	7.10	-91.81
30	5460.0	5460.00	2.68	7.20	35.3%	-4.52	2.68	9000	1500	-95.99	0	0	-4.74	98.67	7.42	-91.25
31	5480.0	5480.00	2.02	6.54	35.3%	-4.52	2.02	13500	3000	-95.99	0	0	-4.90	98.01	6.92	-91.09
32	5500.0	5500.00	2.11	6.09	39.9%	-3.99	2.11	7500	10500	-95.99	0	0	-4.39	98.09	6.50	-91.60
33	5520.0	5520.00	2.67	6.35	42.8%	-3.69	2.67	13500	1500	-95.99	0	0	-4.24	98.66	6.91	-91.75
34	5540.0	5540.00	1.12	5.90	33.3%	-4.77	1.12	13500	4500	-95.99	0	0	-5.31	97.11	6.43	-90.68
35	5560.0	5560.00	1.24	5.85	34.6%	-4.61	1.24	13500	9180	-95.99	0	0	-5.13	97.23	6.37	-90.86
36	5580.0	5580.00	1.70	6.51	33.0%	-4.81	1.70	13500	9180	-95.99	0	0	-5.09	97.69	6.78	-90.90
37	5600.0	5600.00	0.18	5.37	30.2%	-5.20	0.18	3000	3000	-95.99	0	0	-5.54	96.17	5.72	-90.45
38	5620.0	5620.00	0.29	6.09	26.3%	-5.80	0.29	13500	9180	-95.99	0	0	-5.79	96.28	6.09	-90.20
39	5640.0	5640.00	0.85	6.81	25.4%	-5.96	0.85	13500	9180	-95.99	0	0	-5.77	96.84	6.62	-90.22
40	5660.0	5660.00	0.87	6.38	28.1%	-5.51	0.87	12000	3000	-95.99	0	0	-5.39	96.86	6.26	-90.60
41	5680.0	5680.00	1.51	6.50	31.7%	-4.99	1.51	3000	7500	-95.99	0	0	-5.09	97.50	6.60	-90.90
42	5700.0	5700.00	1.20	5.93	33.7%	-4.73	1.20	15000	6000	-95.99	0	0	-4.59	97.19	5.79	-91.39
43	5720.0	5720.00	2.05	6.70	34.2%	-4.66	2.05	15000	3000	-95.99	0	0	-4.42	98.04	6.46	-91.57
44	5740.0	5740.00	1.01	5.86	32.8%	-4.84	1.01	15000	3000	-95.99	0	0	-4.72	97.00	5.73	-91.27
45	5760.0	5760.00	1.23	6.05	32.9%	-4.82	1.23	12000	1500	-95.99	0	0	-4.76	97.22	5.99	-91.23
46	5780.0	5780.00	0.88	5.96	31.0%	-5.08	0.88	4500	10500	-95.99	0	0	-5.10	96.87	5.99	-90.89
47	5800.0	5800.00	0.61	5.98	29.0%	-5.38	0.61	15000	6000	-95.99	0	0	-5.75	96.60	6.35	-90.24

