SPECIFICATION

Shenzhen Guandetong Electronic Limited



Shenzhen Guandetong Electronic Co., Ltd.

WIFI antenna 2.4G + 5G dual-band, black omnidirectional 2DB antenna, mother (ROHS)

Product Specification

connection		frequency range	2400-2500MHz 5000-6000MHZ		
Frequency band wire name		edition	A1		
Customer part number		Guandetong part number			
Guandeton g No					
R F design	肖彬	RF Manager	刘亮		
Structural design	王栋	Structure Manager	王华		
Technical Director	叶定坤	Date	2024-6-19		

Customer confirmation:		
Does the assembly meet your company's requirements:	□ок	\square NG

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

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-- Product pictures



二、Product parameters

Product testing parameters									
Product name	Ultrasonic antenna	(Model Type)	GDT-P2.4-5.8						
(Electrical Specifications)									
(Frenquency Range)	2400-2500MHz 5000-6000MHZ	(Polarization)	perpendicular						
(Impedance)	50 Ω	Radiation	Omnidirectional						
(VSWR)	≤ 2.0	(Power)	50W						
(Gain)	2400-2500MHz, 2.29dBi(MAX) 5000-6000MHz, 2.79dBi(MAX)	(Bandwidth	100M						
(Mechanical Specifications)									
(Dimensions)	108MM±2mm	(Chassis Color)	Black						
(Connector)	SMA (K)	(Cable Length)	//						
(Chassis Material)	ABS+TPE								
(Working Temperature)	-40℃-+85℃	(Limit Temperature)	-40℃-+85℃						

三、S11(VSWR、Return、Smith)

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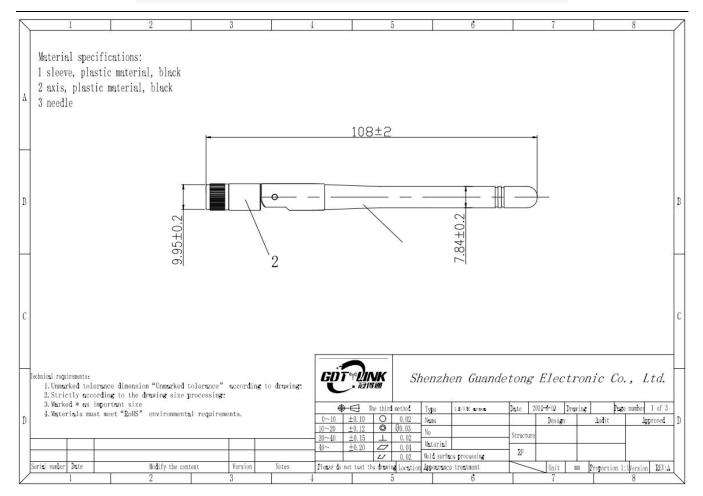


四、Structural drawings

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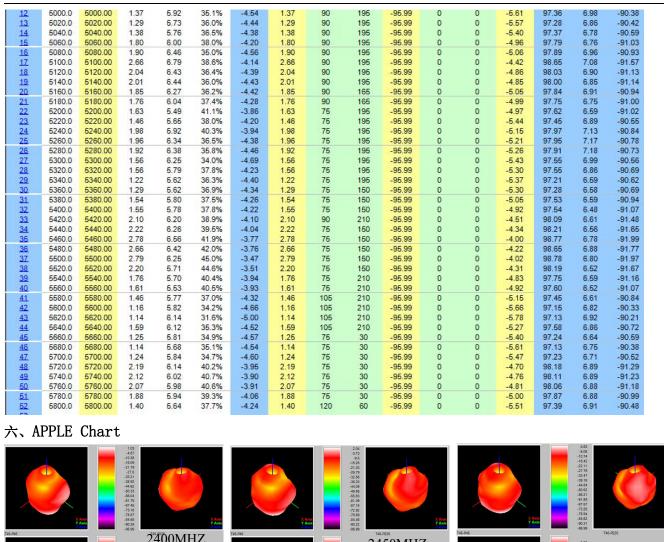
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五. Antenna gain and efficiency

Test Point ID	Freq. (MHz)	TRP (dBm)	Gain (dBi)	Directivit y (dBi)	Efficienc y (%)	Efficienc y (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	1.03	5.42	36.5%	-4.38	1.03	120	60	-95.99	0	0	-4.49	97.02	5.52	-91.50
2	2410.0	2410.00	1.31	5.70	36.4%	-4.39	1.31	120	60	-95.99	0	0	-4.26	97.30	5.57	-91.73
3	2420.0	2420.00	1.74	6.01	37.4%	-4.27	1.74	120	60	-95.99	0	0	-3.88	97.73	5.62	-92.11
4	2430.0	2430.00	2.29	6.21	40.6%	-3.92	2.29	120	60	-95.99	0	0	-3.40	98.28	5.69	-92.59
5	2440.0	2440.00	2.20	6.20	39.8%	-4.00	2.20	120	60	-95.99	0	0	-3.56	98.19	5.76	-92.43
6	2450.0	2450.00	2.04	6.04	39.8%	-4.00	2.04	120	60	-95.99	0	0	-3.59	98.03	5.63	-92.40
Z	2460.0	2460.00	1.97	5.90	40.5%	-3.93	1.97	120	60	-95.99	0	0	-3.54	97.96	5.51	-92.45
8	2470.0	2470.00	1.64	5.55	40.7%	-3.91	1.64	120	60	-95.99	0	0	-3.74	97.63	5.39	-92.25
9	2480.0	2480.00	1.03	5.02	39.9%	-3.99	1.03	120	60	-95.99	0	0	-4.20	97.02	5.23	-91.79
10	2490.0	2490.00	0.84	4.97	38.6%	-4.14	0.84	120	60	-95.99	0	0	-4.43	96.83	5.27	-91.56
11	2500.0	2500.00	0.63	4.80	38.3%	-4.17	0.63	120	60	-95.99	0	0	-4.54	96.62	5.17	-91.45

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七、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 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	Drop test Free fall for 3 times in the direction of mutually perpendicular axes at a height of 1M			