SPECIFICATION

Shenzhen Guandetong Electronic Limited



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2.4G steel antenna patch

Product Specification

connection		frequency range	2400-2500MHZ
Frequency band wire name		edition	A1
Customer part number		Guandetong part number	
Guandeton g No			
R F design	Amasa	RF Manager	Owen
Structural design	Amasa Car Huang	Structure Manager	
Technical Director	Addi:	Date	2025-06-20

Customer confirmation:			
Does the assembly meet your company's requirements:]OK	□NG	

catalogue

Cover
catalogue
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-- Product pictures



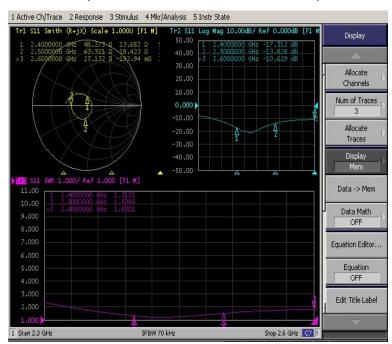
二、Product parameters

Product testing parameters									
Product name	2.4G steel antenna patch	(Model Type)							
(Electrical Specifications)									
(Frenquency Range) 2400-2500MHZ (Polarization) perpend									
(Impedance)	50Ω	Radiation	QXCOMM						
(VSWR)	(VSWR) ≤ 2.0 (Power)								
(Gain)	2.38dBi	(Bandwidth	100M						
	(Mechanical Speci	fications)							
(Copper tube dimensions)	9.30*3.30*4.95 ± 0.2mm	(Chassis Color)	Silver						
(Connector)	Welding (patch)	(Chassis Material)	Stainless steel						
(Working Temperature)	-40°C-+85°C	(Limit Temperature)	-40°C-+85°C						

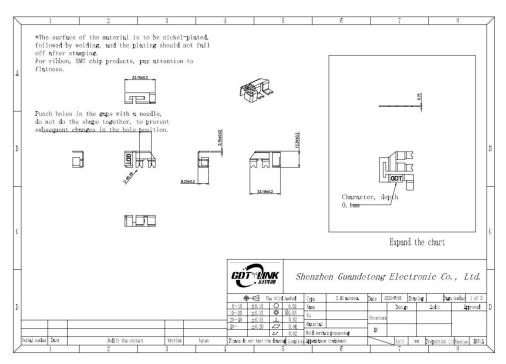
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三、S11(VSWR、Return、Smith)



四、Structural drawings

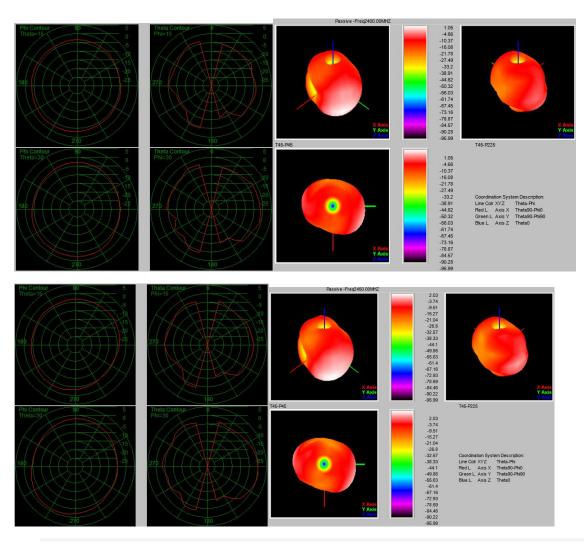


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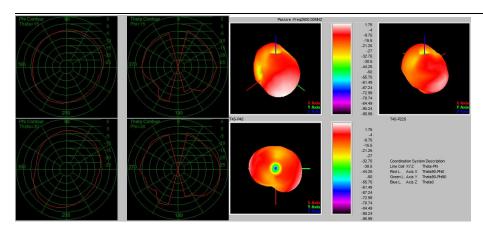
五、Antenna gain and efficiency

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	1.05	5.20	38.5%	-4.15	1.05	90	60	-95.99	0	0	-4.31	97.04	5.35	-91.68
2	2410.0	2410.00	1.26	5.39	38.6%	-4.14	1.26	90	60	-95.99	0	0	-4.11	97.25	5.36	-91.88
3	2420.0	2420.00	1.60	5.58	40.0%	-3.98	1.60	90	60	-95.99	0	0	-3.73	97.59	5.32	-92.26
4	2430.0	2430.00	2.12	5.66	44.2%	-3.54	2.12	90	60	-95.99	0	0	-3.17	98.11	5.29	-92.82
5	2440.0	2440.00	1.86	5.59	42.3%	-3.73	1.86	90	60	-95.99	0	0	-3.46	97.85	5.32	-92.53
6	2450.0	2450.00	2.03	5.68	43.1%	-3.66	2.03	105	60	-95.99	0	0	-3.42	98.02	5.45	-92.57
Z	2460.0	2460.00	2.33	5.84	44.6%	-3.51	2.33	105	60	-95.99	0	0	-3.32	98.32	5.65	-92.67
8	2470.0	2470.00	2.38	5.74	46.1%	-3.36	2.38	105	60	-95.99	0	0	-3.41	98.37	5.79	-92.58
9	2480.0	2480.00	2.08	5.36	46.9%	-3.29	2.08	105	60	-95.99	0	0	-3.74	98.07	5.81	-92.25
10	2490.0	2490.00	1.77	5.23	45.1%	-3.46	1.77	105	60	-95.99	0	0	-4.01	97.76	5.78	-91.98
11	2500.0	2500.00	1.75	5.14	45.8%	-3.39	1.75	105	60	-95.99	0	0	-4.00	97.74	5.75	-91.99

六、2D&3D Figure



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七、Environmental performance test

	Day :	Specificati		
project	Project test conditions	ons		
	The test temperature, humidity and air pressure are as follows when there is no specific condition:			
Storage environment	1. The temperature is - 30 °C^+80 °C	Normal electrical and mechanical performance		
	2. Relative humidity: 45% - 85%			
	3. The air pressure is 86kpa-106kpa			
High and low	5 cycles between 70 ° C and 40 ° C, then under normal	The size shall meet the requirements and		
temperature test	conditions1-2H, check the appearance quality.	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	The size shall meet the requirements and Mechanical and electrical performance		
	Part 1-2H, check the appearance quality			
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 ax			

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