

SPECIFICATION

Shenzhen Guandetong Electronic Limited



Shenzhen Guandetong Electronic Co., Ltd.

2.4G 5.8G dual-band transversal antenna 1.13 black-out 300MM band terminal

Product Specification

connection		frequency range	2400-2500MHz 5200-5800MHz
Frequency band	wire name	edition	A1
Customer part number		<i>Guandetong part number</i>	
Guandetong No			
R F design	肖彬	RF Manager	刘亮
Structural design	王栋	Structure Manager	王华
Technical Director	叶定坤	Date	2023-12-12

Customer confirmation:

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

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catalogue

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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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一、 Product pictures



二、 Product parameters

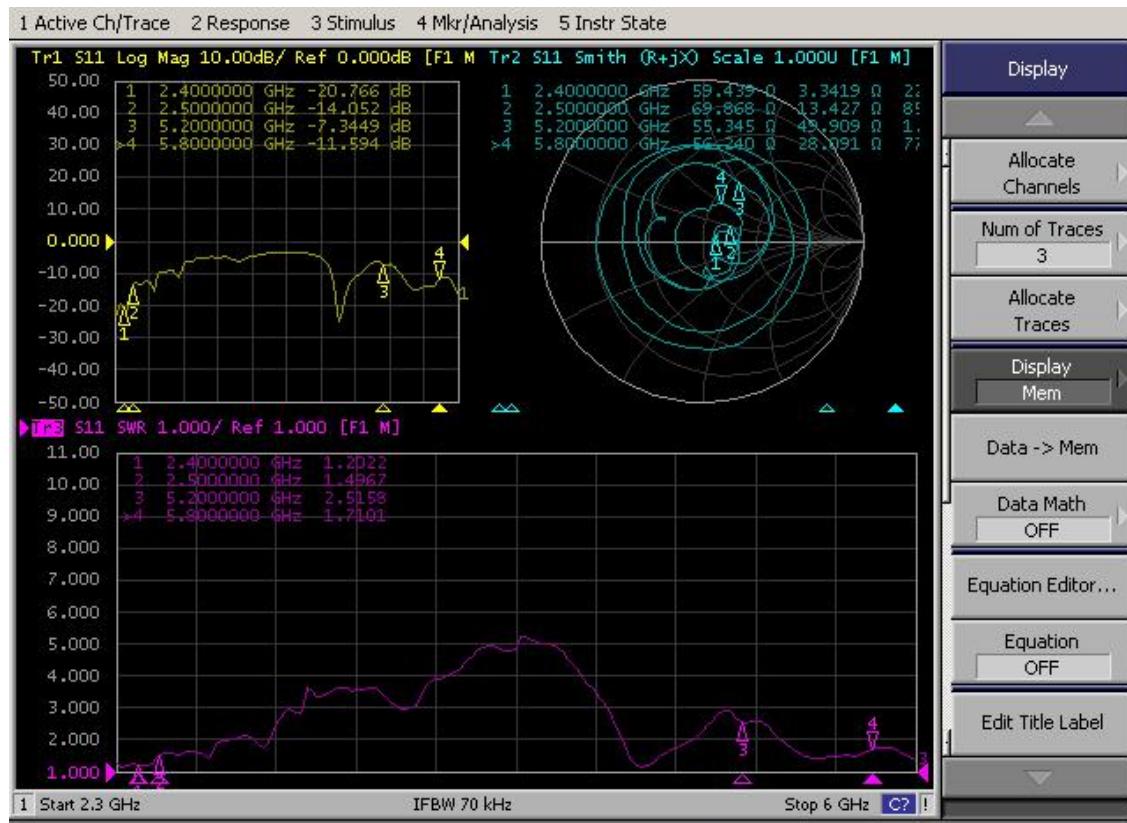
Product testing parameters			
Product name	Ultrasonic antenna	(Model Type)	GDT-P2.4-5.8-L60
(Electrical Specifications)			
(Frequency Range)	2400-2500MHz 5200-5800MHz	(Polarization)	perpendicular
(Impedance)	50 ohm	Radiation	Omnidirectional
(VSWR)	≤ 2.0	(Power)	50W
(Gain)	3dBi	(Bandwidth)	100M
(Mechanical Specifications)			
(Dimensions)	150*16.44±2mm	(Chassis Color)	Black
(Connector)	IPEX	(Cable Length)	1.13Black 300MM
(Chassis Material)	ABS		
(Working Temperature)	-40°C--+85°C	(Limit Temperature)	-40°C--+85°C

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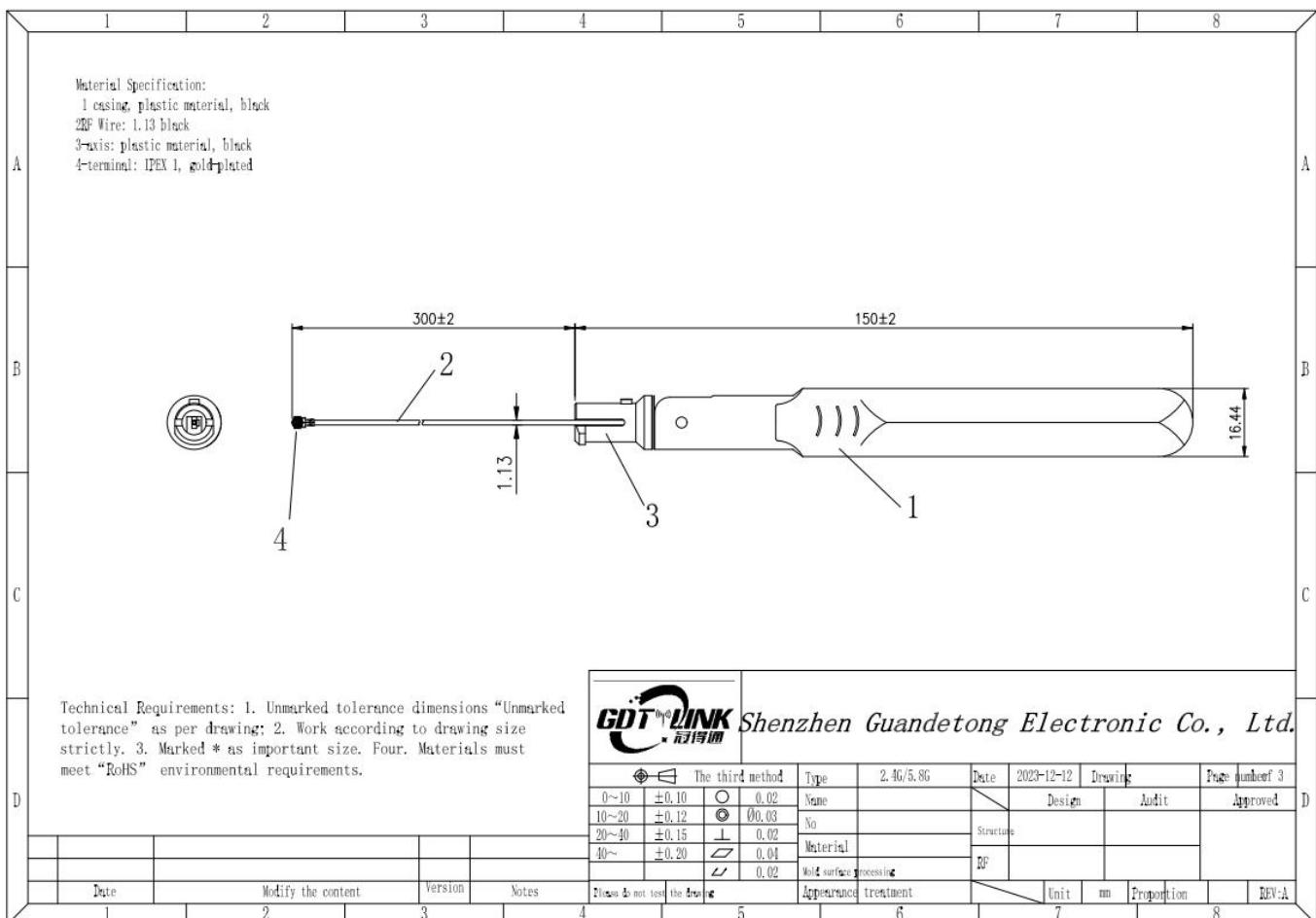
三、S11(VSWR、Return、Smith)



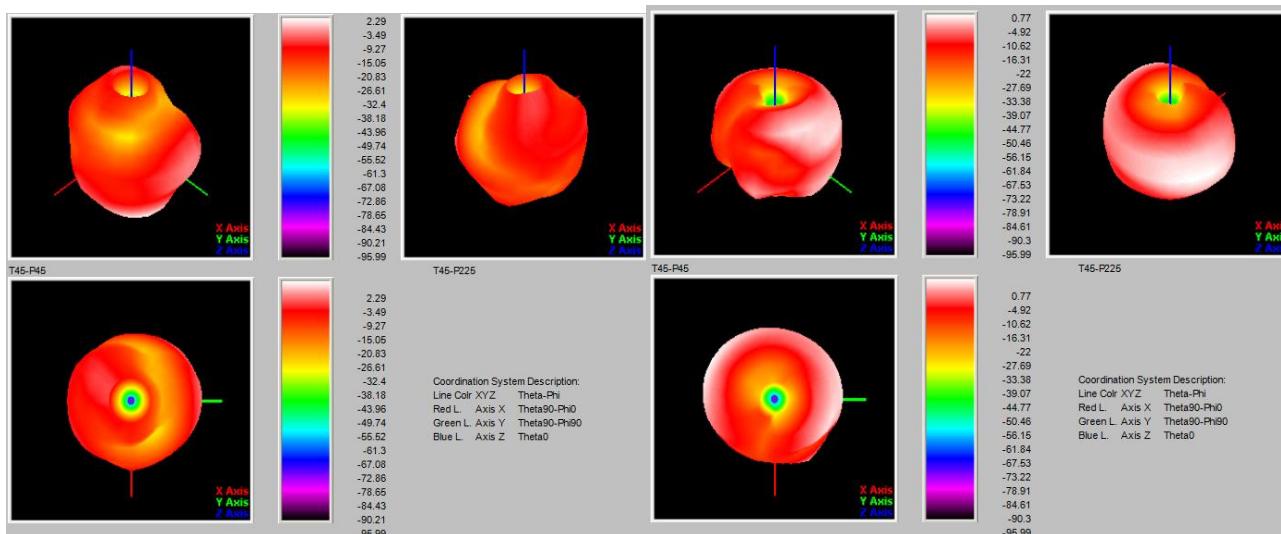
四、Structural drawings

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五. APPLE Chart



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六、 Environmental performance test

project	Project test conditions	Specifications
Storage environment	<p>The test temperature, humidity and air pressure are as follows when there is no specific condition:</p> <ol style="list-style-type: none">1. The temperature is $-30^{\circ}\text{C} \sim +80^{\circ}\text{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 conditions 1-2H, check the appearance quality.	The size shall meet the requirements and Mechanical and electrical performance
Constant damp heat resistance test	<p>Relative humidity: $95 \pm 3\%$, test temperature: 40°C. After lasting for 2h,</p> <p>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</p> <p>Part 1-2H, check the appearance quality</p>	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

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