

			document number:
Specification For Approval			
Customer Name: Customer:			
Supplier Name: Customer:	Dongguan Zhongyida Electronic Technology Co., LTD		
Customer No. :		Supplier No. :	
product descripti on:	2.4G Thumb antenna	Equipped with models :	
Supplier recognition (seal):		Customer recognition (seal):	
Production: Zhou Jingfeng	Structure: Zhou Jingfeng		
examine and verify:	Date: 2024.08.20		

catalogue

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1. product picture



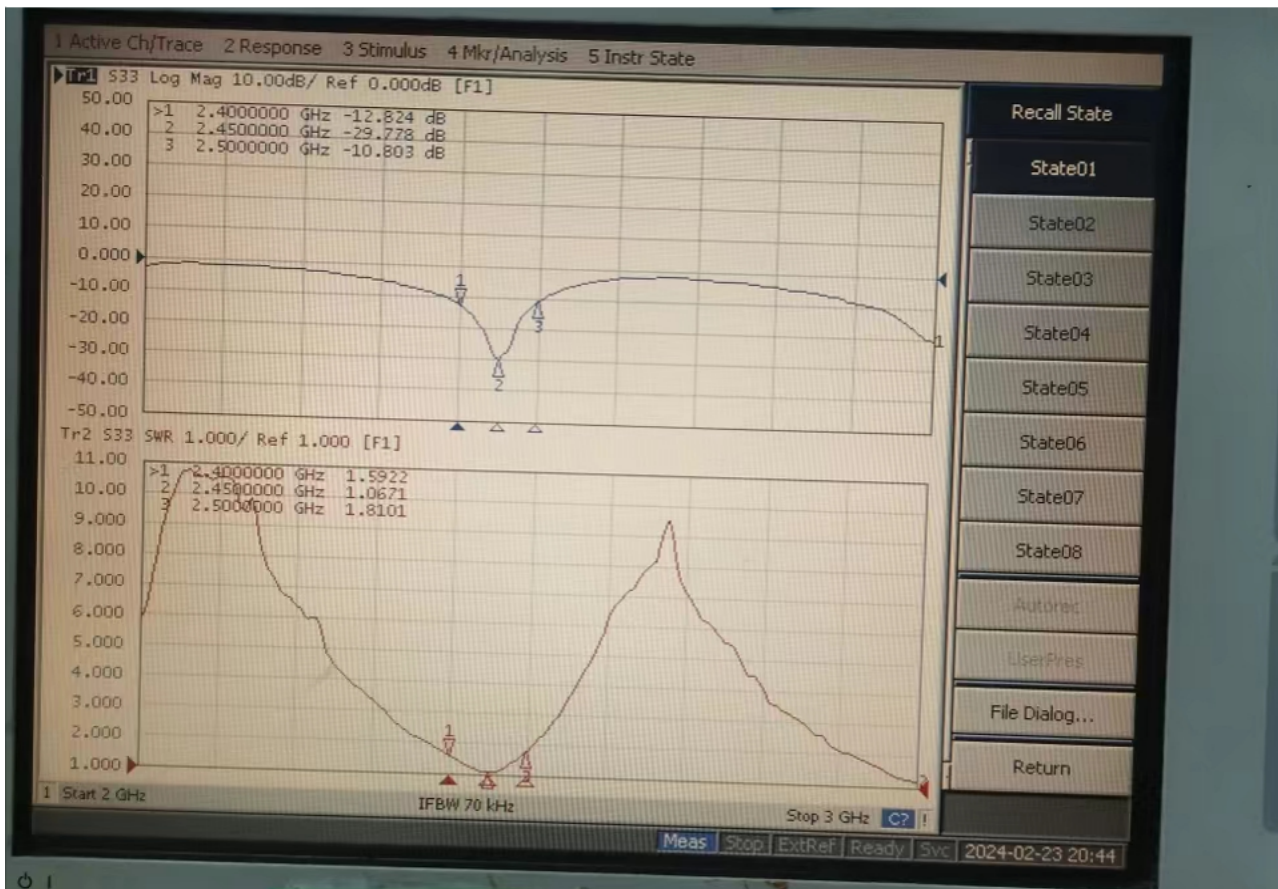
2. Product Parameter

Product test, test parameters			
Product Name (Name)	2.4G Thumb antenna	Product Model Number (Model Type)	
Electrical performance index (Electrical Specifications)			
Frequency Range (Frequency Range)	2400-2500Mhz	Polarization mode (Polarization)	perpendicular
Input impedance (Impedance)	50 Ω	radiation direction	omnidirectional
Standing Bobby (VSWR)	≤2	Power capacity (Power)	50W
Gain (Gain)	-3.32dBi	Bandwidth (Bandwidth)	100MHz

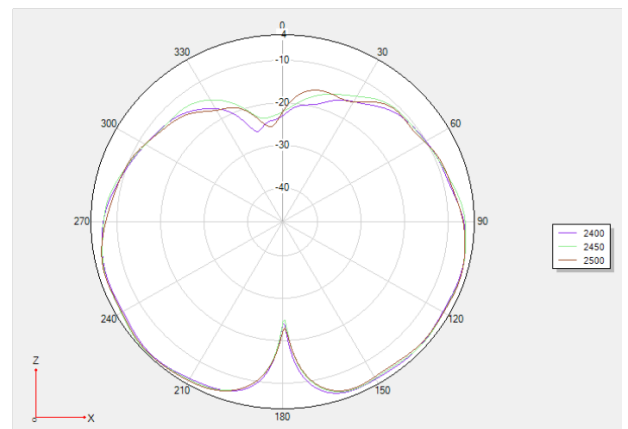
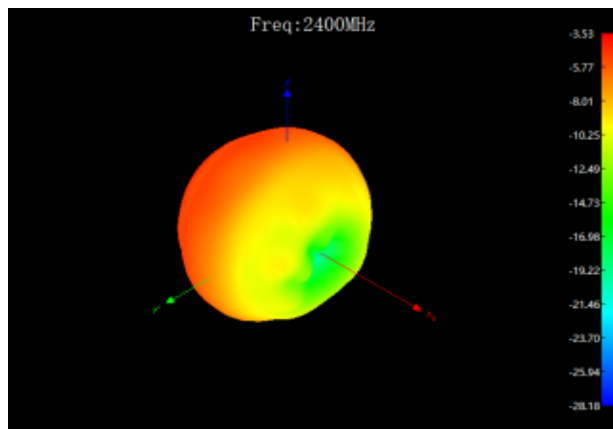
Mechanical index (Mechanical Specifications)			
Dimensions (Dimensions)	14MM $\pm$ 2MM	Antenna Color (Chassis Color)	black
Connector model number (Connector)	SMA needle	Lead length (Cable Length)	
Antenna material (Chassis Material)	AB S		
working temperature (Working Temperature)	-40°C $\pm$ 85°C	Storage temperature (Limit Temperature)	-40°C $\pm$ 85°C

III. S 11 (VSWR, Return loss, Smith) data

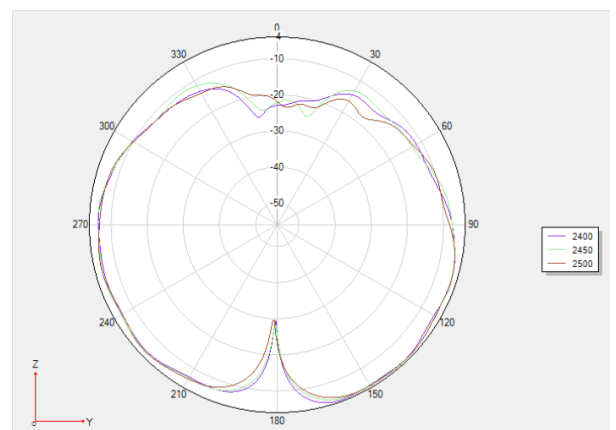
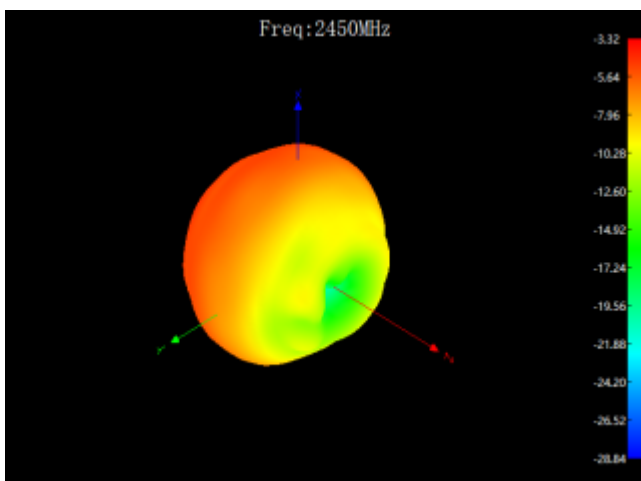
1. one. The Network Analyzer Report



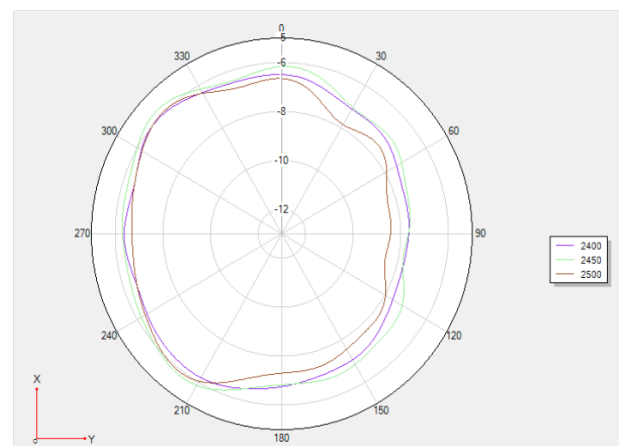
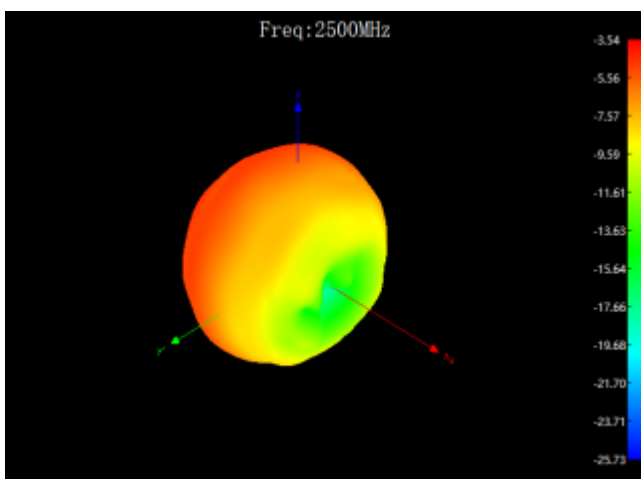
2.2D-3D pattern



2400HMZ



2450HMZ



2500HMZ

4. Antenna efficiency and gain

[illegible]

	1	2	3	4	5	6	7	8
A					版本	变更内容	日期	变更者
B								确认
C								
D								
E								
F								

图例

SMThe male needle

14.25

15

LENGTH	A	B	C	Dongguan Electronic Technology Co., Ltd.			
L<=10	±0.05	±0.10	±0.15	Customer data		Design King-fung	
10<L<=50	±0.10	±0.15	±0.20	No.		Audit	
50<L<=150	±0.15	±0.20	±0.30				
L>150	±0.20	±0.25	±0.40	version		Date	2024.06.27
Angular tolerances	±1°	Tolerance grade	B	unit	MM	◆⇐ Third perspective	

IV. Environmental performance test

Storage environment	Test temperature, humidity and air pressure are as follows: 1. Temperature is $-30^{\circ}\text{C} \sim +80^{\circ}\text{C}$ 2. Relative humidity is 45% - 85% 3. Air pressure is 86 kpa-106 kpa	Electrical and mechanical properties are normal
thermocycling	Five cycles were performed between 70°C and 40°C and then 1-2H under normal conditions.	Dimensions shall meet the requirements and shall be Meet the satisfaction In the mechanical and electrical performance
Constant humidity and heat trial	Relative humidity: $95 \pm 3\%$, test temperature: 40°C . After a sustained 2H action, Electrical performance is measured within 5min after its removal. The test article is 1-2H under normal conditions to check the appearance quality	Dimensions shall meet the requirements and shall be Meet the satisfaction In the mechanical and electrical performance
vibration test	.0Dynamic frequency range: 10-55 HZ, displacement amplitude: 0.35MM, acceleration amplitude: 50M / S, sweep cycle number: 30 times	Electrical and mechanical properties are normal
fall-down test	1M falls 3 times in the axis direction vertical to each other	Electrical and mechanical properties are normal