

	document number :
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Specification For Approval

customer name : Customer:			
Supplier Name: Customer:	Dongguan Zhongyida Electronic Technology Co., LTD		
Customer part number:		Supplier part number:	
product descripti on :	5DB-2.4G White rubber rod antenna glue head female needle	Supported models:	
Supplier acknowledges (seal):		Client Acknowledges (seal):	
Production: Zhou Jingfeng	Structure: Zhou Jingfeng		
examine and verify :	Date: 2025.07.29		

catalogue

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I. Product pictures



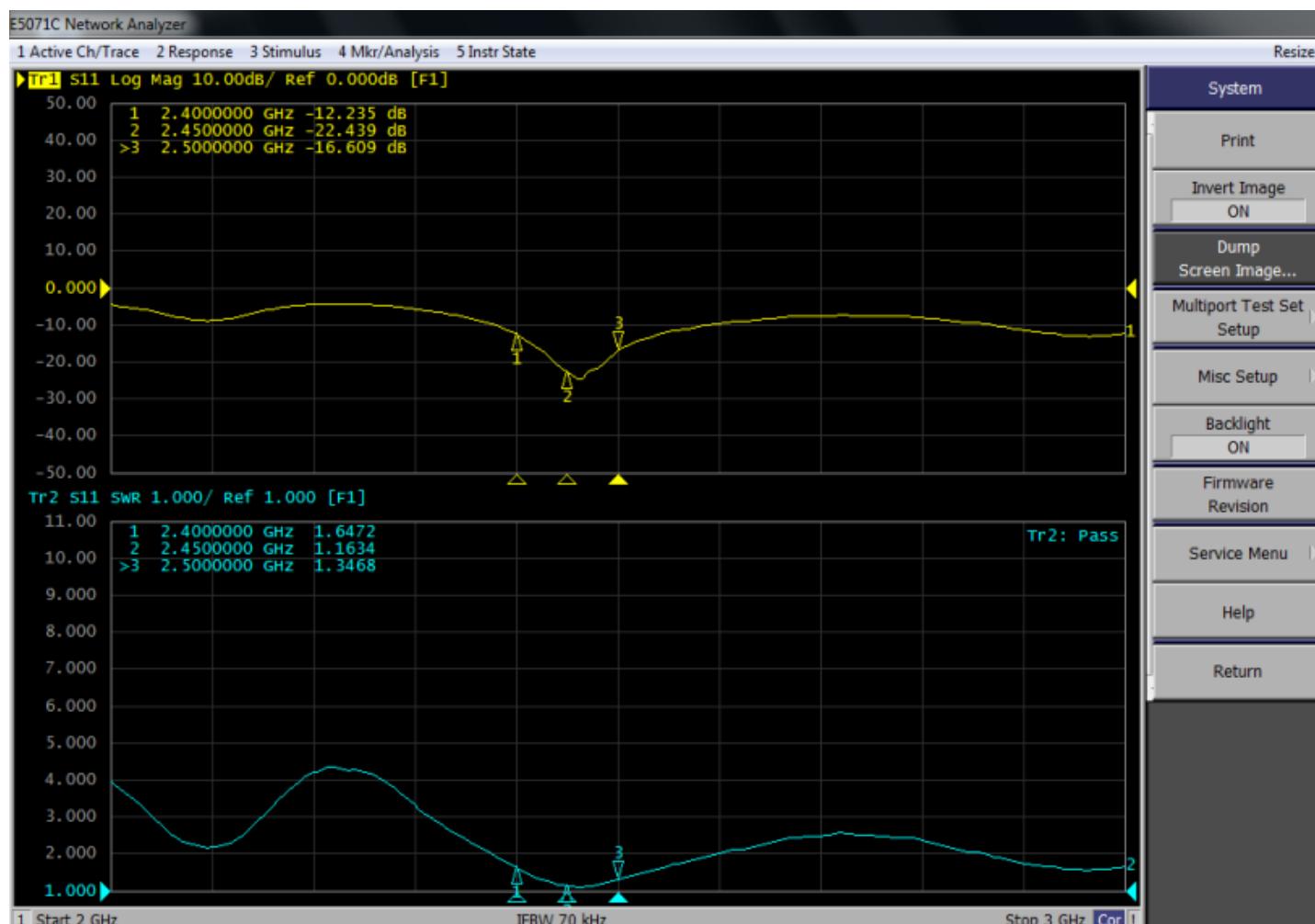
II. Product parameters

Product test parameters			
Product Name (Name)	External 2.4G antenna	Product model (Model Type)	5DB-2.4G White rubber rod antenna glue head female needle
Electrical specifications (ES)			
Frequency range (Frequency Range)	2400-2500MHz	Polarization mode	perpendicular
Input impedance (Impedance)	50 Ω	radiation direction	omnidirectional
VSWR (Standing Wave Ratio)	≤2	Power capacity (power)	50W
Gain	5.17dBi	Bandwidth (Bandwidth	100MHz

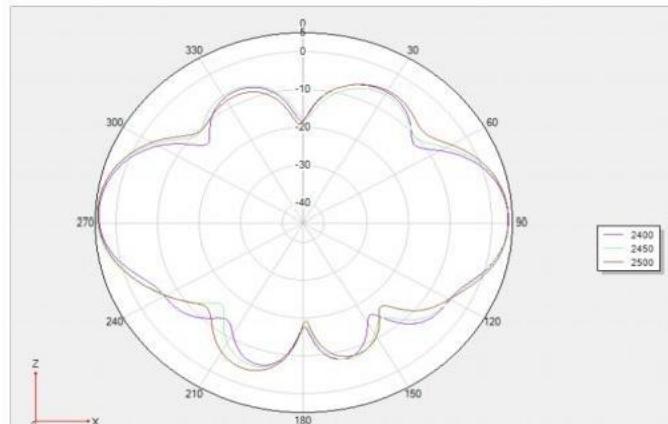
Mechanical specifications			
Dimensions	195MM±2MM	Antenna color (Chassis Color)	white
Type of Antenna	Integral Antennae	Cable Length	
Antenna material (Chassis Material)	PC		
working temperature (Working Temperature)	-40°C ±85°C	Storage temperature (Limit Temperature)	-40°C ±85°C

3. S11 (VSWR, Returnloss, Smith) data direction diagram

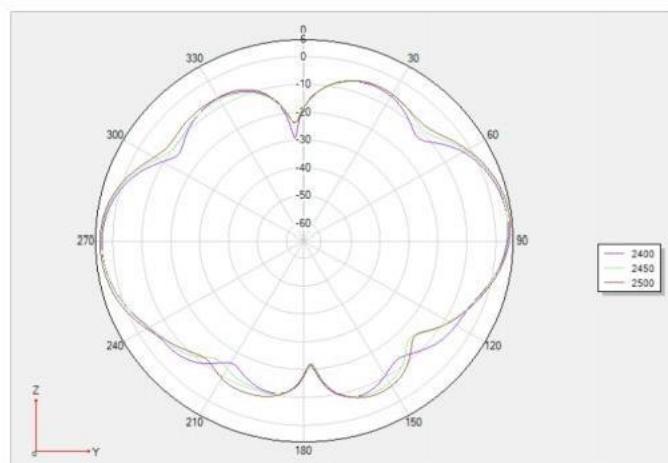
3.1 Network analyzer report



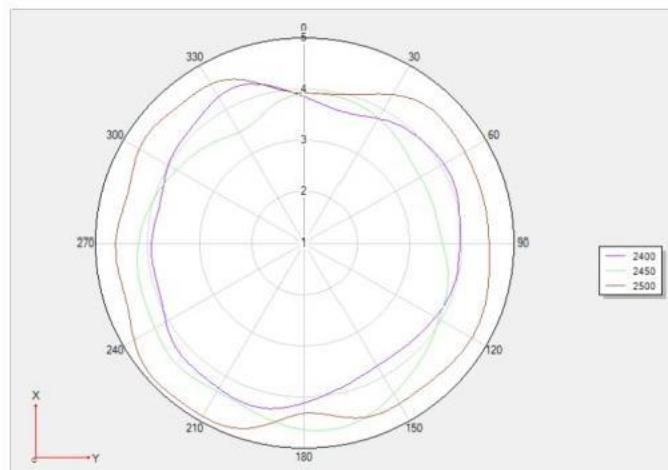
3. 22D direction diagram



Phi 0 2D

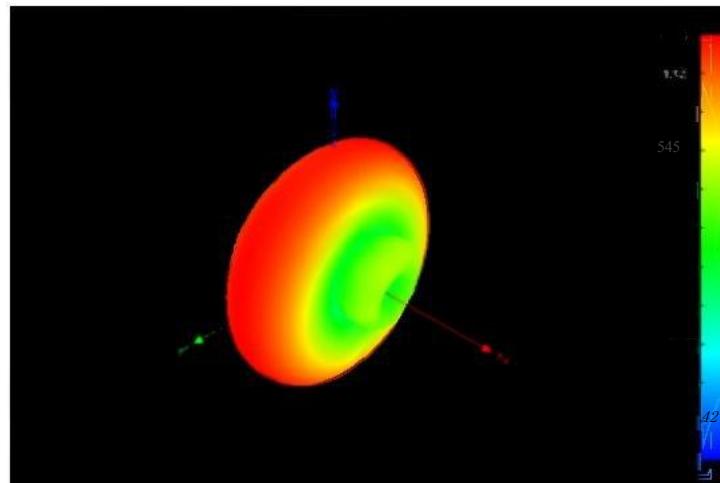


Phi 90 2D

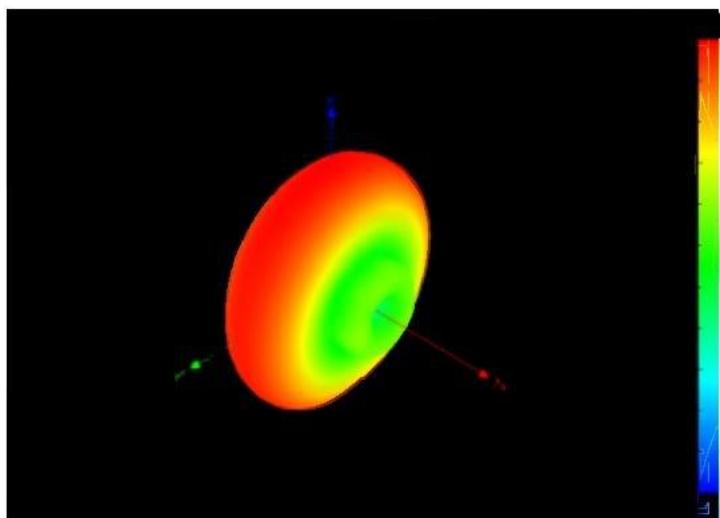


Theta 90 2D

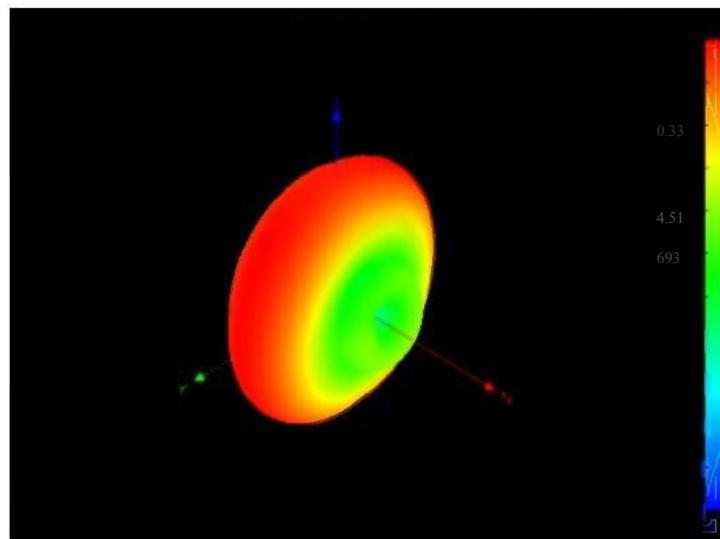
3. 33D diagram



2400MHz



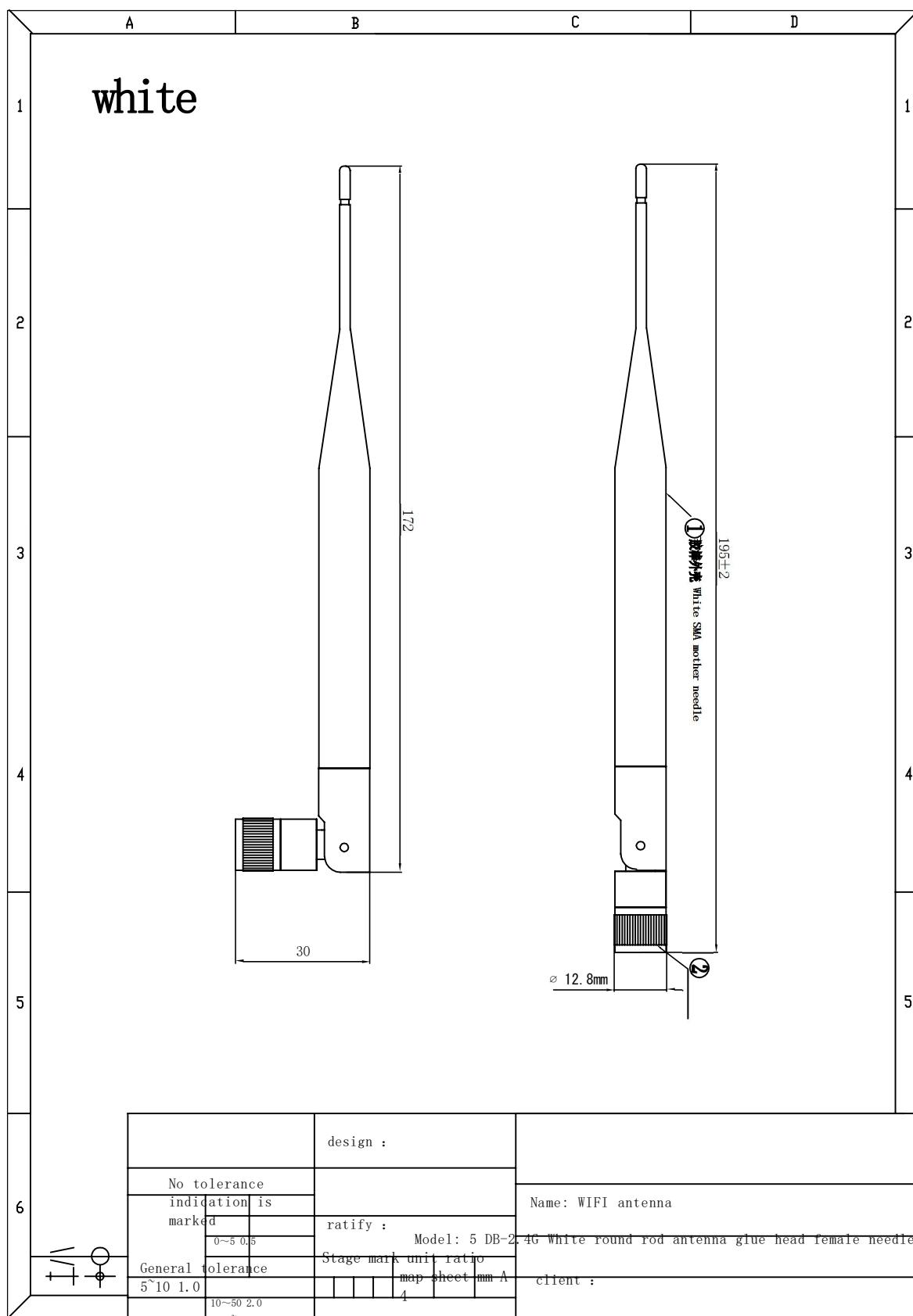
2450MHz



2500MHz

4. Antenna efficiency and gain value

V. Product size drawing



VI. Environmental performance test

Storage environment	<p>Test temperature, humidity and air pressure as follows in the absence of specification:</p> <ol style="list-style-type: none"> 1. The temperature is -30°C ~ +80°C 2. The relative humidity is 45%-85% 3. The air pressure is 86 kpa-106 kpa 	Electrical and mechanical properties are normal
thermocycling	<p>Five cycles are performed between 70°C and 40°C, then under normal conditions</p> <p>1-2H, check the appearance quality.</p>	<p>The dimensions shall meet the requirements and shall be</p> <p>Its satisfying Mechanical and electrical properties</p>
Resistant to constant damp heat trial	<p>Relative humidity 95±3%, test temperature: 40°C. After continuous action for 2H,</p> <p>Electrical properties shall be measured within 5 minutes after the sample is taken out, and the sample shall be in normal condition</p> <p>Check the appearance quality of item 1 -2H</p>	<p>The dimensions shall meet the requirements and shall be</p> <p>Its satisfying Mechanical and electrical properties</p>
vibration test	<p>Vibration frequency range 10-55 HZ, displacement amplitude: 0.35 MM, acceleration amplitude: 50.0M/S, Frequency sweep cycle: 30 times</p>	Electrical and mechanical properties are normal
fall-down test	<p>Fall 1M high along the mutually perpendicular axis direction three times</p>	Electrical and mechanical properties are normal