			document number:		
S	Specification Fo	or App rov	al		
Customer:					
	Dongguan Zho	ongvida El	ectronic		
Customer:	Dongguan Zhongyida Electronic Technology Co., LTD				
number:		Supplier part number:			
description :	2DB2.4G New white 2 section direct plug true antenna L=150MM+1 generation	Model used:			
Suppliers Acknowledgment (seal):		Customer acknowledges (stamp):			
Produced by: Zhou Jingfeng  Structure:  Jing Toy Zhou					
examine and verify: Date: 2025.07.01					

## catalogue

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### 1. Product pictures

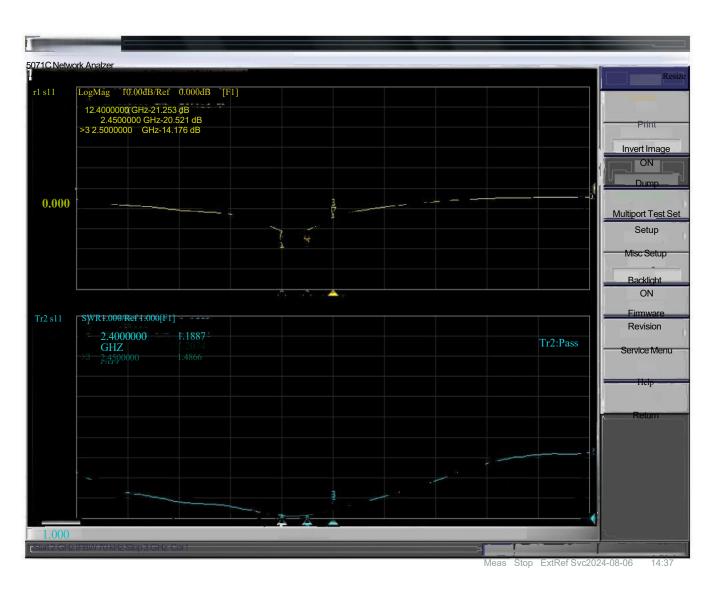


### 2. Product parameters

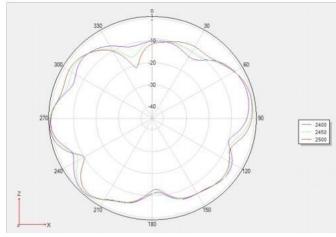
Product test parameters				
Name	External antenna	Model Type	2DB 2.4G new white 2 section direct plug true antenna L=150MM+ Generation 1	
Electrical Specifications				
FREQUENCY RANGE	2400-2500Mhz	Polarization	perpendicular	
Impedance	50 Ω	radiation direction	omnidirectional	
Standing wave ratio	€2	Power capacity	50W	
VSWR		Power		
Gain	2.66dBi	Bandwidth	100MHz	

Mechanical specifications (MS)				
Dimensions	105±2 MM	ChassiColor)	white	
Connector	A generation of terminals	Cable Length	150MM±3MM	
Chassis material	ABS			
Working Temperature	40°C ±85°C	Limit Temperature	-40°C ±85°C	

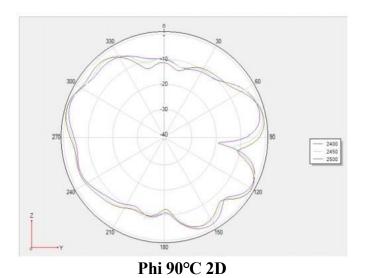
# 3. S11 (VSWR, Return loss, Smith) data 2D-3D direction diagram one . Network analyzer report



## Two. 2D-3D direction diagram

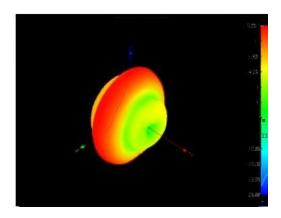


Phi0°C 2D

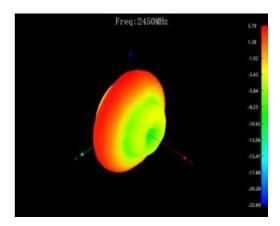


Theta90°C 2D

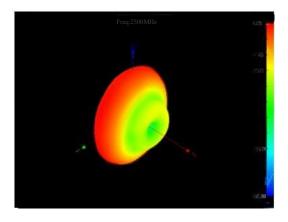
Two. 2D-3D direction diagram



2400MHZ



2450MHZ

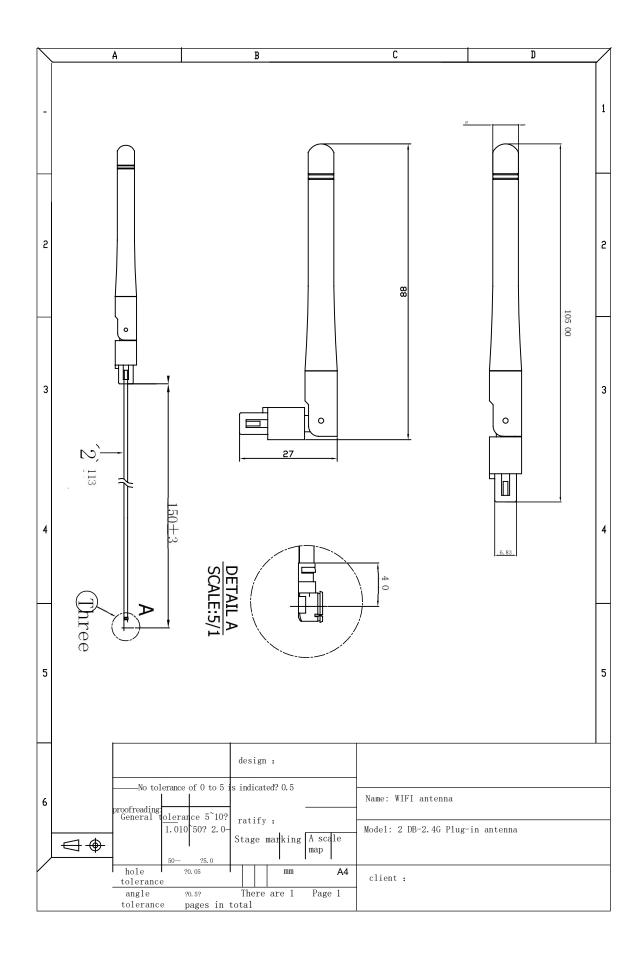


2500MHZ

## 4. Antenna efficiency and gain value

Frequenc	jEfficiency	Efficienc	y/% Freque	ncMaxGain/(	AvgGain/dBi		
2400	-3. 69	42. 76		2400	2.01	-3.69	
2450	-3. 23	47. 53		2450	2.47	-3. 23	
2500	-3. 05	49. 55		2500	2.66	-3.05	

## 5. Product size drawing



## 6. Environmental performance test

Storage environment	Test temperature, humidity and air pressure are tested as follows in the absence of a specification:  1. The temperature is-30°C~+80°C  2. Relative humidity is 45%-85%  3. The air pressure is 86 kpa-106 kpa	Electrical and mechanical performance is normal	
thermocycling	Five cycles were performed between $70^{\circ}$ C and $40^{\circ}$ C, followed by normal conditions 1-2H, check the appearance quality.	The size shall meet the requirements and should Its fulfilling On mechanical and	
		electrical properties	
Resistant to constant humidity and heat trial	Relative humidity 95±3%, test temperature: 40°C.  After 2H action,  The electrical properties of the sample were measured within 5 min after the sample was removed, and the sample was normal  Check the appearance quality after 1-2H	The size shall meet the requirements and should Its fulfilling On mechanical and electrical properties	
vibration test	Frequency range: 10-55 HZ, displacement amplitude: 0.35 MM, acceleration amplitude: 50.0M/S, Frequency sweeping cycle: 30 times	Electrical and mechanical performance is normal	
fall-down test	The 1M high altitude is freely dropped three times in the direction of mutually perpendicular axes	Electrical and mechanical performance is normal	