

Specification For Approval	
Supplier Name: Dongguan Zhongyida Electronic Technology Co.Ltd Add: F1/F, Building 79, New Sun Industrial City, Tangxia Town, Dongguan City, China Supplier Part Number: 1001-2.4-5.8G-0010	
Product description: 6DB-Dual Band Black Blade AntennaRubber Tip - Male Pin	

Catalogue

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一、Product Pictures



二、Product Pictures

Product testing Pictures			
Product Name	External antenna	Model Type	6DB-Dual Band Black Blade AntennaRubber Tip - Male Pin
Electrical Specifications			
Frenquency Range	2400-5800MHZ	Polarization	Vertical
Impedance	50 Ω	Radiation Direction	Omnidirectional
VSWR	≤2	Power	50W
Gain	5dBi	Bandwidth	100MHz

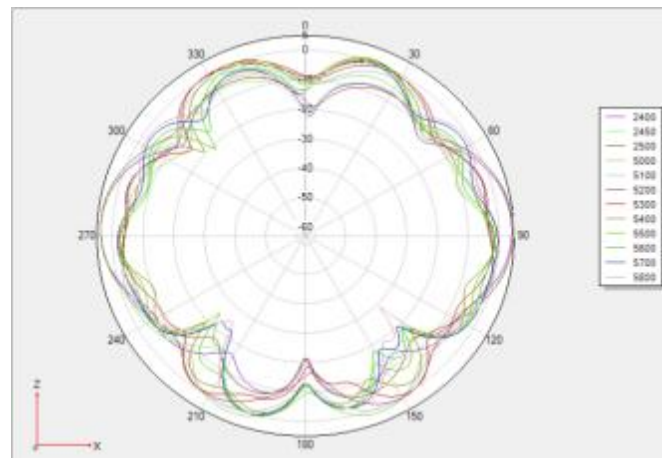
Mechanical Specifications			
Dimensions	199MM±2MM	Chassis Color	Black
Connector	SMA needle	Cable Length	
Chassis Material	PC		
Working Temperature	-40℃±85℃	Limit Temperature	-40℃±85℃

三、S11 (VSWR 、 Return loss 、 Smith)Data

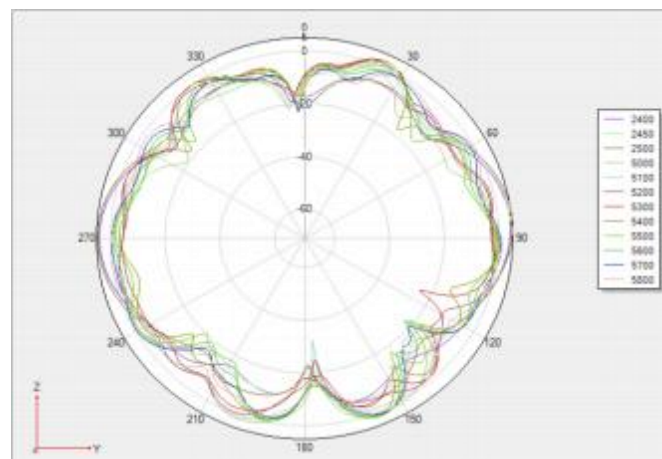
3.1 Network analyzer report



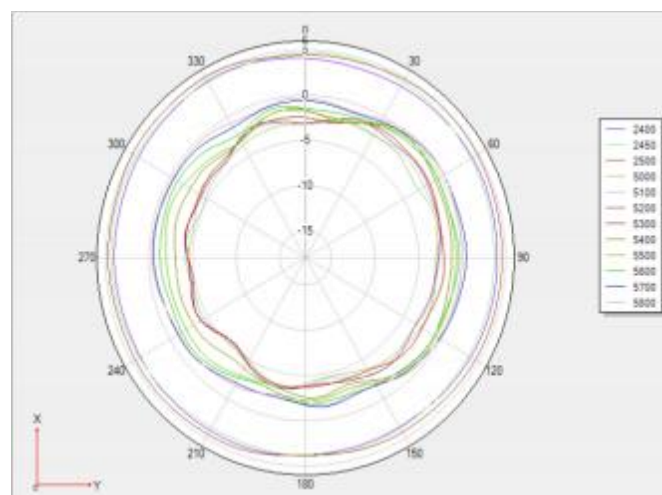
3.2 2D Directional diagram



Phi 0 2D

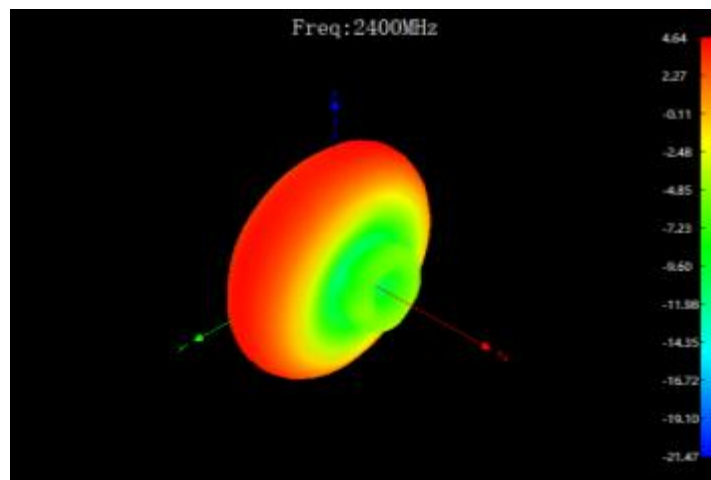


Phi 90 2D

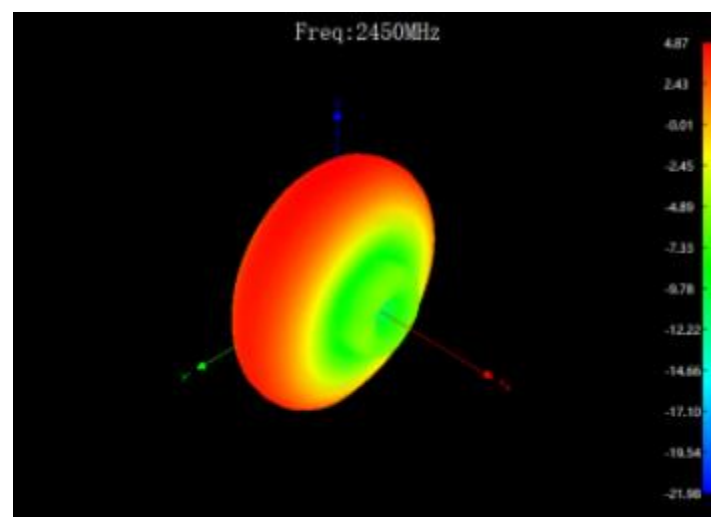


Theta 90 2D

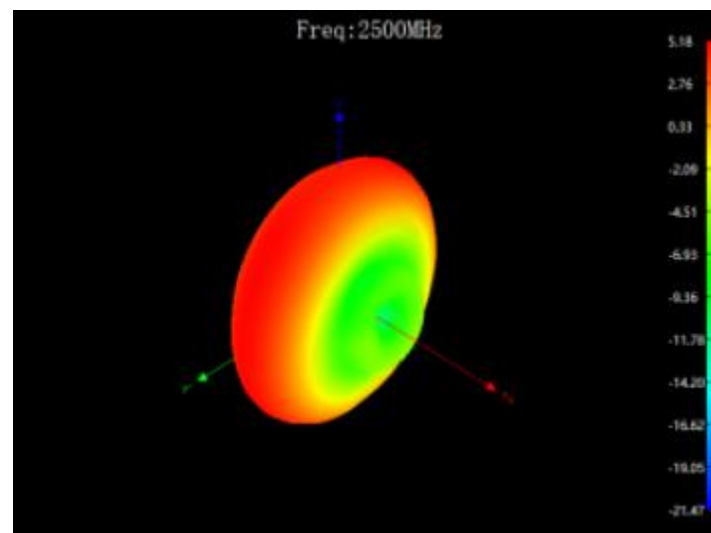
3.3 3D Directional diagram



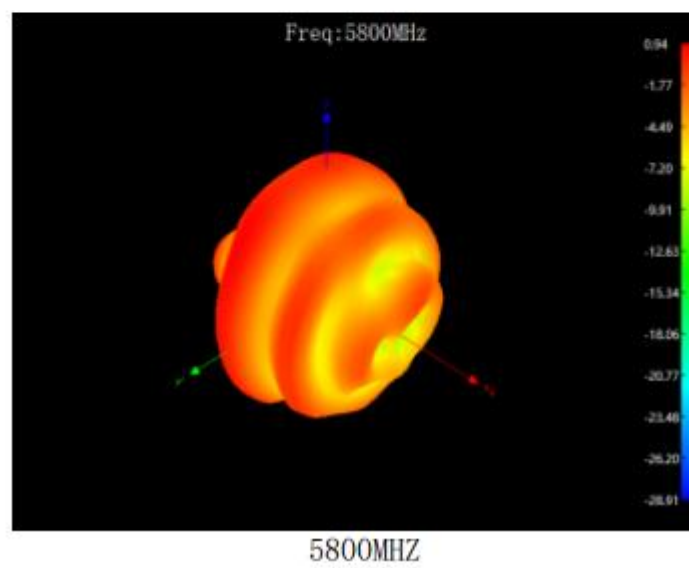
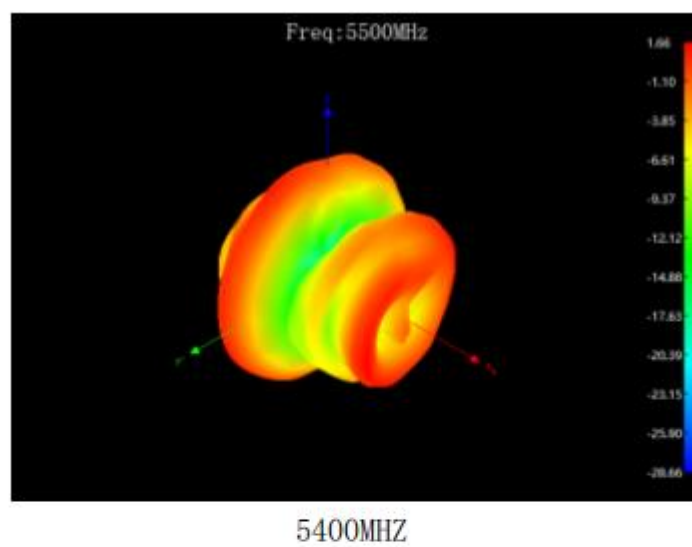
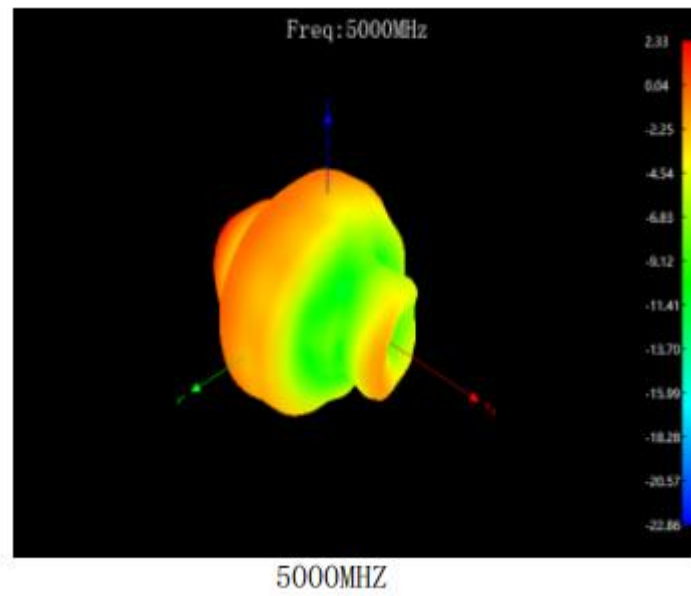
2400MHZ



2450MHZ



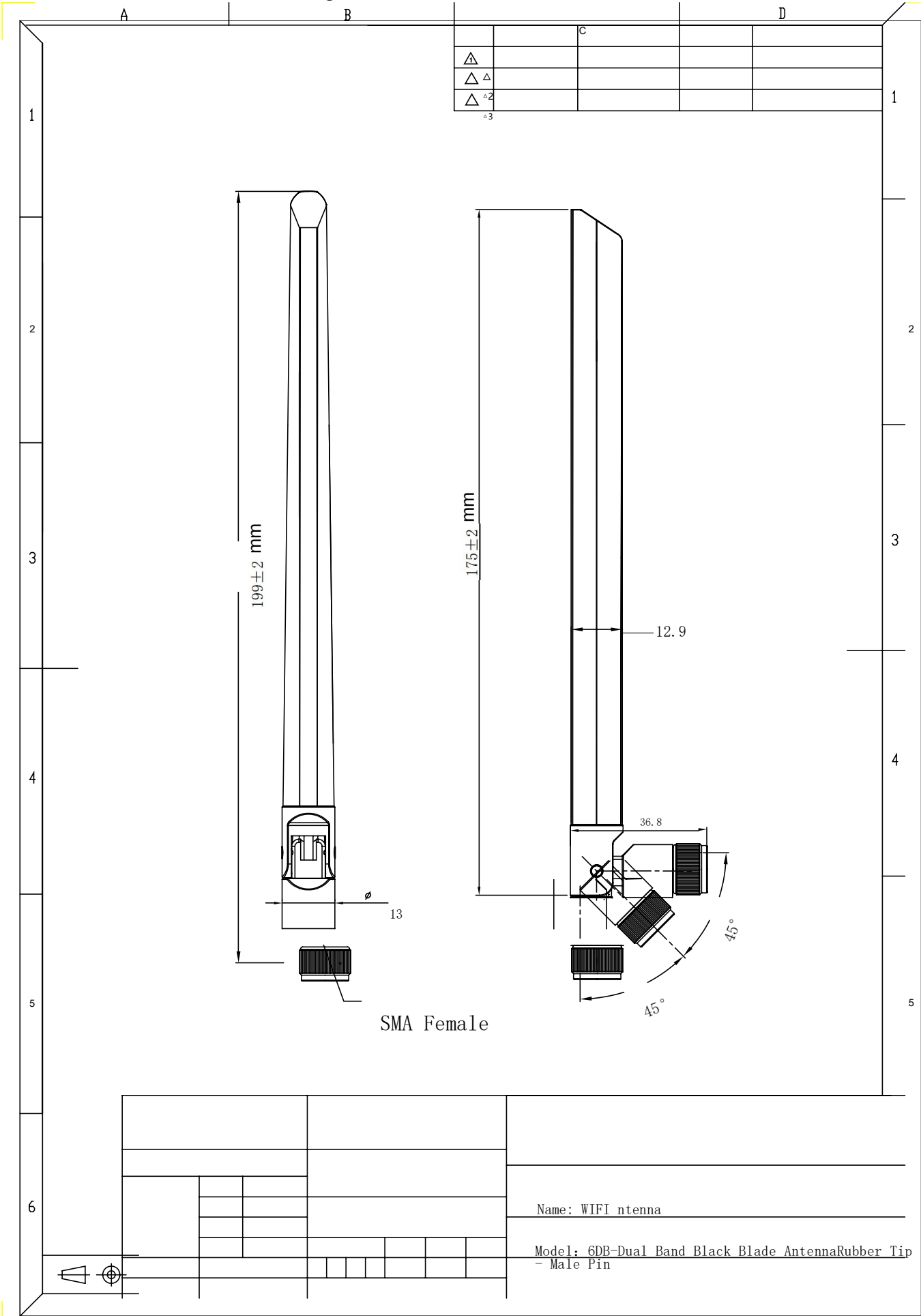
2500MHZ



四、WIFI Antenna Efficiency&Gain

WIFI Antenna Efficiency & Gain		
Frequency	Efficiency	Peak_Gain
2400	64.62%	4.38
2420	65.65%	4.46
2440	69.88%	4.86
2460	69.85%	4.89
2480	69.89%	4.88
2500	68.58%	4.58
5150	68.28%	4.96
5250	68.58%	4.86
5350	69.29%	4.99
5450	70.68%	5.00
5550	70.26%	4.12
5650	70.28%	4.13
5750	69.26%	4.99
5850	69.28%	4.98

五、Product dimensions drawing



六、Environmental Performance Testing

Storage Environment	Test temperature, humidity and air pressure under the condition of no specification: 1. Temperature: $-30^{\circ}\text{C} \sim +80^{\circ}\text{C}$ 2. Relative humidity: $45\% \sim 85\%$ 3. Relative humidity. Air pressure: $66\text{kpa} \sim 106\text{kpa}$	Electrical and mechanical performance is normal
High-Low Temperature Test	Conduct 5 cycles between 70°C and 40°C , then under normal conditions for 1-2H, check the appearance quality.	Dimensions shall meet the requirements and shall be satisfied for mechanical and electrical performance
Constant Humidity and Heat Resistance Test	Relative humidity $95\% \pm 3\%$, test temperature: 40°C . After 2H of action, measure the electrical performance within 5min. After the sample is taken out and check the appearance quality under normal conditions for 1-2H.	Dimensions shall meet the requirements and shall be satisfied for mechanical and electrical performance
Vibration Test	Vibration Frequency Range: $10 \sim 55\text{HZ}$, displacement amplitude: 0.38MM , acceleration 50.0M/S^2 , sweep frequency cycle times: 30 times	Electrical and mechanical performance is normal
Drop Test	Free fall from a height of 1M in the direction of mutually perpendicular axes for 3 times	Electrical and mechanical performance is normal