

Shenzhen Dongfengchang Technology Co., Ltd.

DFW910 specification sheet

1. Physical picture



2. Antenna technical parameters

Design Specifications Typical Units
Antenna form foldable rod antenna
Working frequency (workingFrequency) 2400~2500MHz
Gain (Gain) 3.0dBi (average) 4.0dBi (maximum) @2400MHz-2500MHz
Antenna efficiency (AntennaEfficiency) 70%
Voltage standing wave ratio (VSWR) ≤ 1.5
Polarization method (Polarization) linear polarization
Radiation pattern omnidirectional
Feed impedance (impedance) 50Ω
Power capacity (Powerhandling) 33dbm

Connector properties male pin

Antenna dimensions (Overall dimensions) 10x109mm

Weight (Weight) 6.5g

Color and material white/ABS

Salt spray level 72H (connector)

Operating temperature (OperatinTemp) $-40^{\circ}\text{C}\sim 85^{\circ}\text{C}$

Storage temperature (StoringTemp) $-45^{\circ}\text{C}\sim 85^{\circ}\text{C}$

3. SMA head characteristics
1. Materials and coatings

serial number	Part Name	Material	plating	Remark
1	inner conductor	Brass wire	gold plated	
2	insulator	PTFE		
3	shell	Brass (HPb59-1)	electrophoresis	

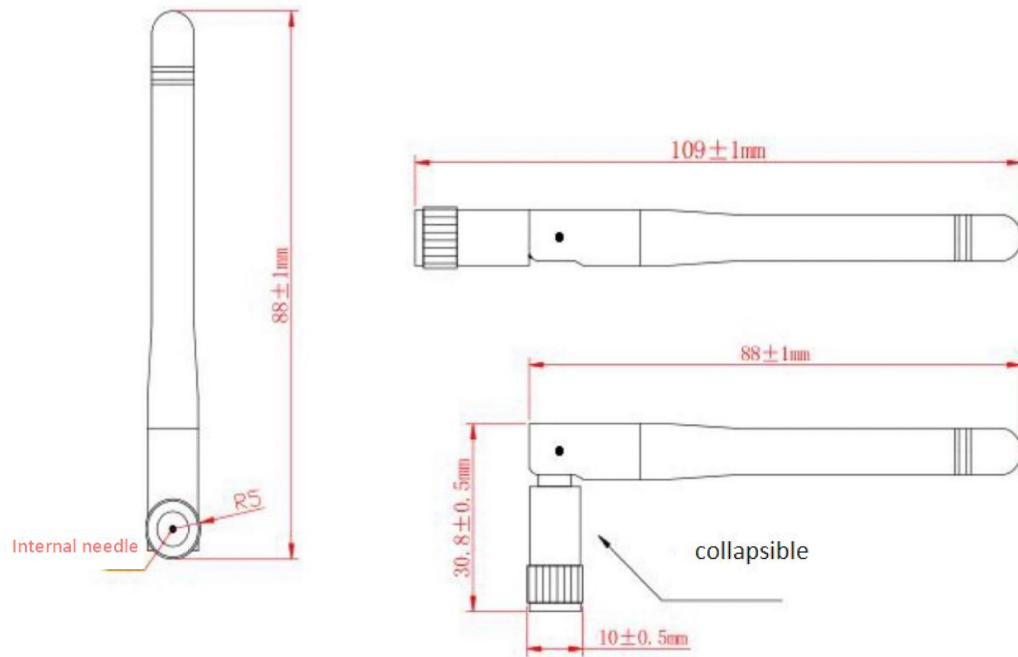
2. Electrical performance

serial number	Test items	Technical indicators	Remark
1	Characteristic impedance	50 Ω	
2	temperature range	-65~+165℃	
3	Frequency Range	0~12GHZ	
4	Medium pressure resistance	1000V(rms)	
5	Contact resistance	Inner conductor ≤ 3mΩ Outer conductor ≤ 2mΩ	
6	Insulation resistance	≥5000MΩ	
7	voltage standing wave ratio	≤1.25(soft cable)	

3. Mechanical properties

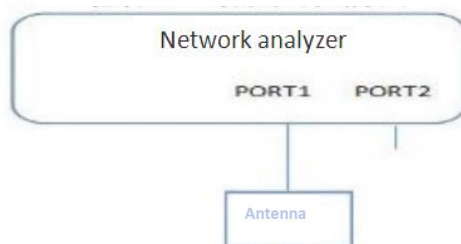
serial number	Mechanical behavior	Technical indicators	Remark
1	Mechanical durability	5 0 0 t i m e s	

四、4. Structural dimension drawing (unit)mm

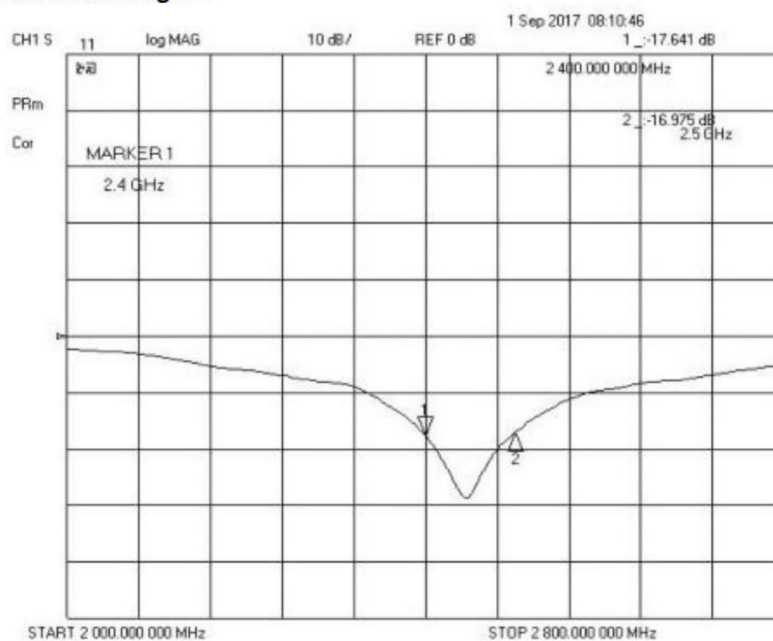


5. Antenna performance test

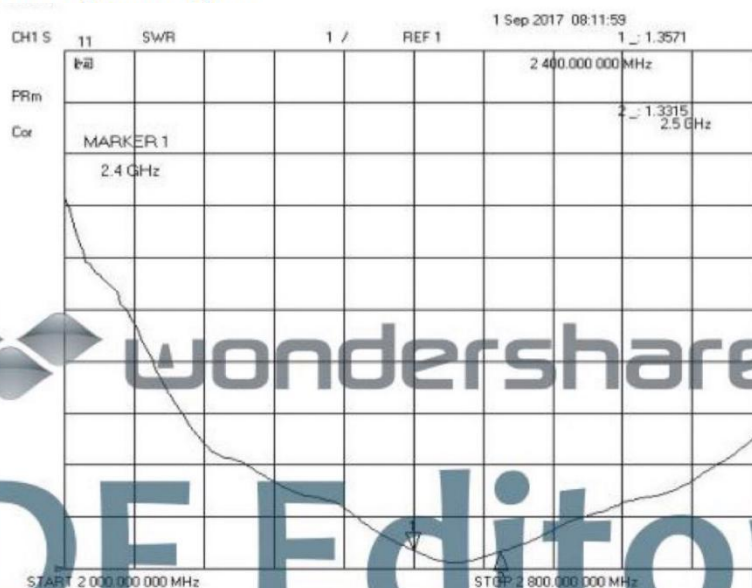
Standing wave ratio/return loss test method



1. Return loss diagram

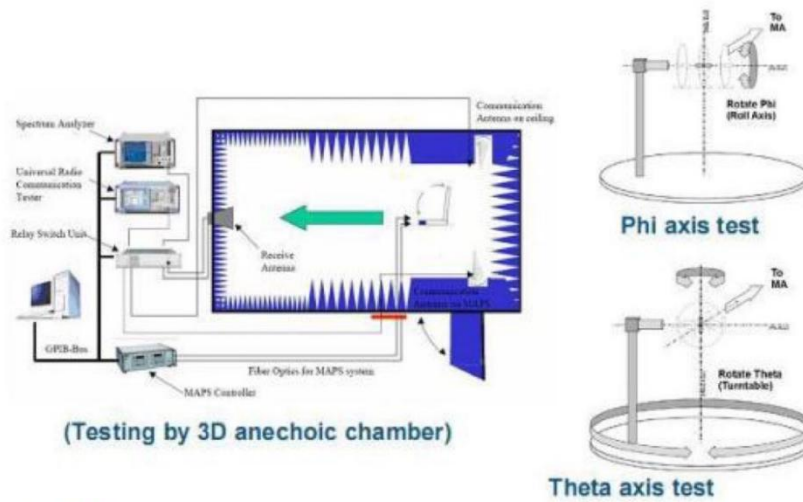


2. Standing wave diagram

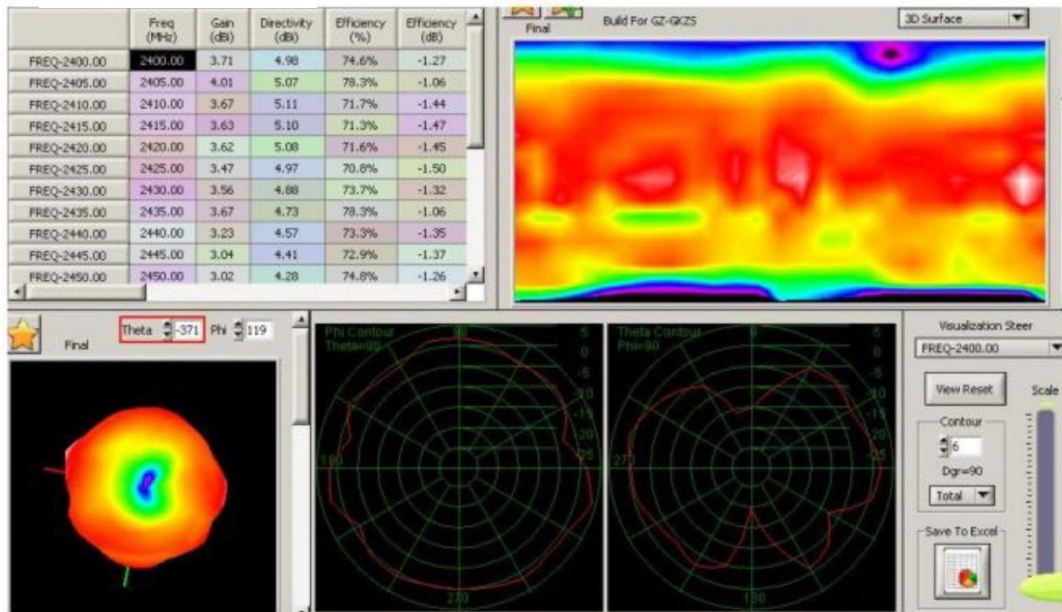


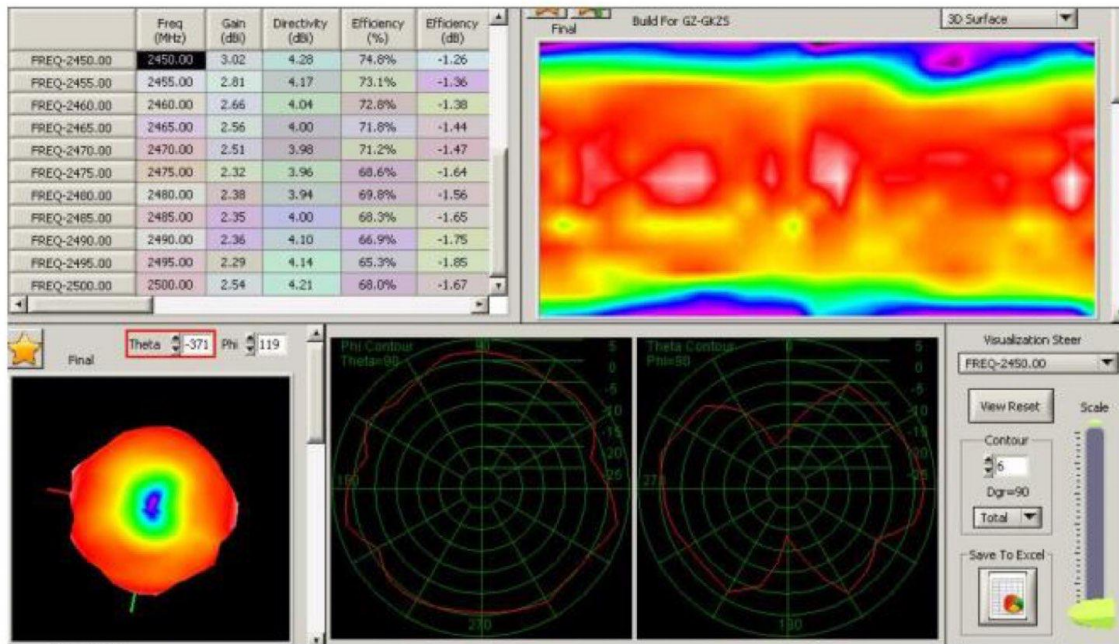
Microwave anechoic chamber detection

The detection diagram is shown below

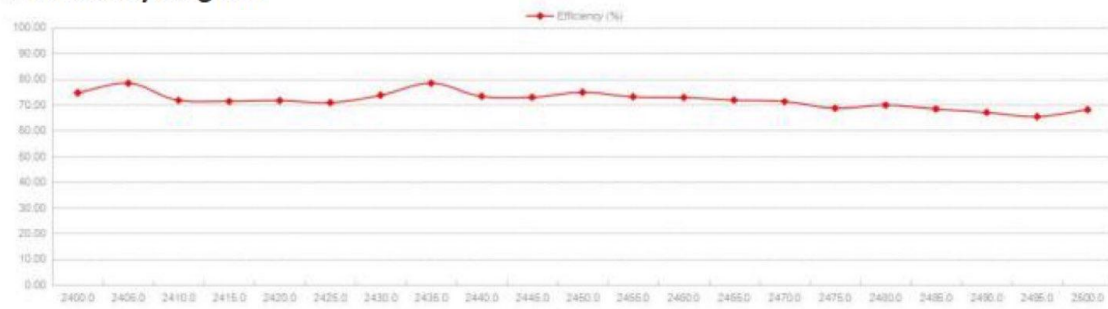


3. Directional diagram





4. Efficiency diagram



5. Gain plot

