



Product Specification

A. Electrical Characteristic

| | |
|------------------|---------------|
| Frequency | 6000-7000MHz |
| VSWR | < 1.6 |
| Efficiency | ≈85% |
| Peak Gain | 3dBi |
| Impedance | 50 Ohm |
| Polarization | Linear Linear |
| out-of-roundness | ±1 |

B. Material & Mechanical

| | |
|----------------|------------------------|
| Cable Type | RF 1.37 |
| Connector Type | IP EX |
| Dimension | Total length of 12.4cm |
| Weight | 0.005Kg |

C. Environmental

| | |
|-----------------------|-----------------|
| Operation Temperature | - 40°C ~ +75 °C |
| Storage Temperature | - 45°C~+80°C |
| Humidity | ≤95% |

D. photo





Reliability test Reliability Test

| project | Test condition | specifications |
|--|--|---|
| Storage environment | <p>Test the temperature, humidity, and air pressure without specifying them as follows:</p> <ol style="list-style-type: none">1. The temperature is -45 °C~+85 °C2. Relative humidity is 45% -85%3. The air pressure is between 86kpa and 106kpa | Normal electrical and mechanical performance |
| High and low temperature test | <p>Perform 5 cycles between 80 °C and -40 °C, then return to normal</p> <p>Under conditions for 1-2 hours, inspect the appearance quality.</p> | <p>The size should meet the regulations and be full</p> <p>Satisfied with mechanical and electrical performance</p> |
| Resistant to constant humidity and heat experiment | <p>Relative humidity of 95 ± 3%, test temperature: 40 °C. After continuous action for 2 hours, the electrical performance of the test piece shall be measured within 5 minutes after removal. The test piece shall be inspected for appearance quality under normal conditions for 1-2 hours</p> | <p>The size should meet the regulations and be full</p> <p>Satisfied with mechanical and electrical performance</p> |
| vibration test | <p>Vibration frequency range 10-55Hz, displacement amplitude: 0.35MM, acceleration amplitude: 50.0M/s, frequency sweep cycles: 30 times</p> | Normal electrical and mechanical performance |
| Drop test | <p>Falling from a height of 1m</p> | Normal electrical and mechanical performance |
| Pulling force test | <p>Use a push-pull force tester to test its load-bearing capacity: ≥ 10N</p> | Normal electrical and mechanical performance |

| | | | |
|-------------------|--|--|--|
| Voltage withstand | 1. Insulation spark voltage 1.5KV 2. Spark voltage of protective sheath 1.5KV 3. Insulation to sheath withstand voltage of 0.5KV | | Normal electrical and mechanical performance |
| Attenuation value | 2.0(nominal) 2.9(nominal) 3.2(nominal) 3.7(nominal) 4.3(nominal) 4.8(nominal) 5.3(nominal) | 1GHz 2GHz 2.4GHz 3.0GHz 4.0GHz 5.0GHz 6.0GHz | 3.3dB /m (at 20°C) |

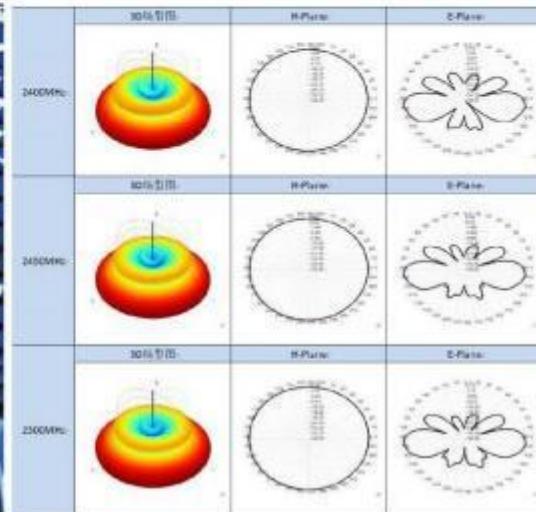
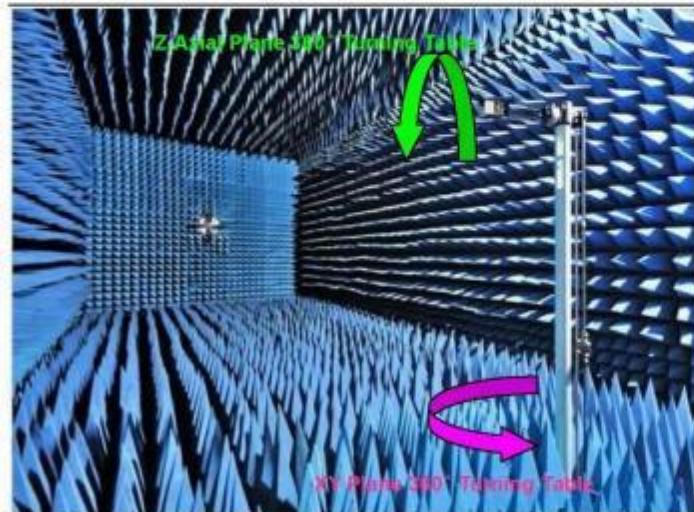
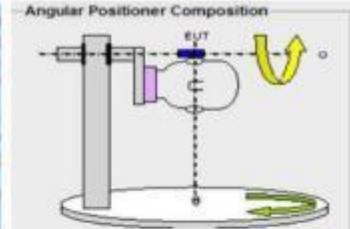
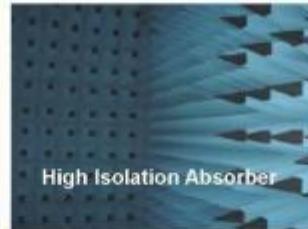


Test Equipment & Conditions

1、Network Analyzers: Keysight E5071C

2、3D Chamber Test System

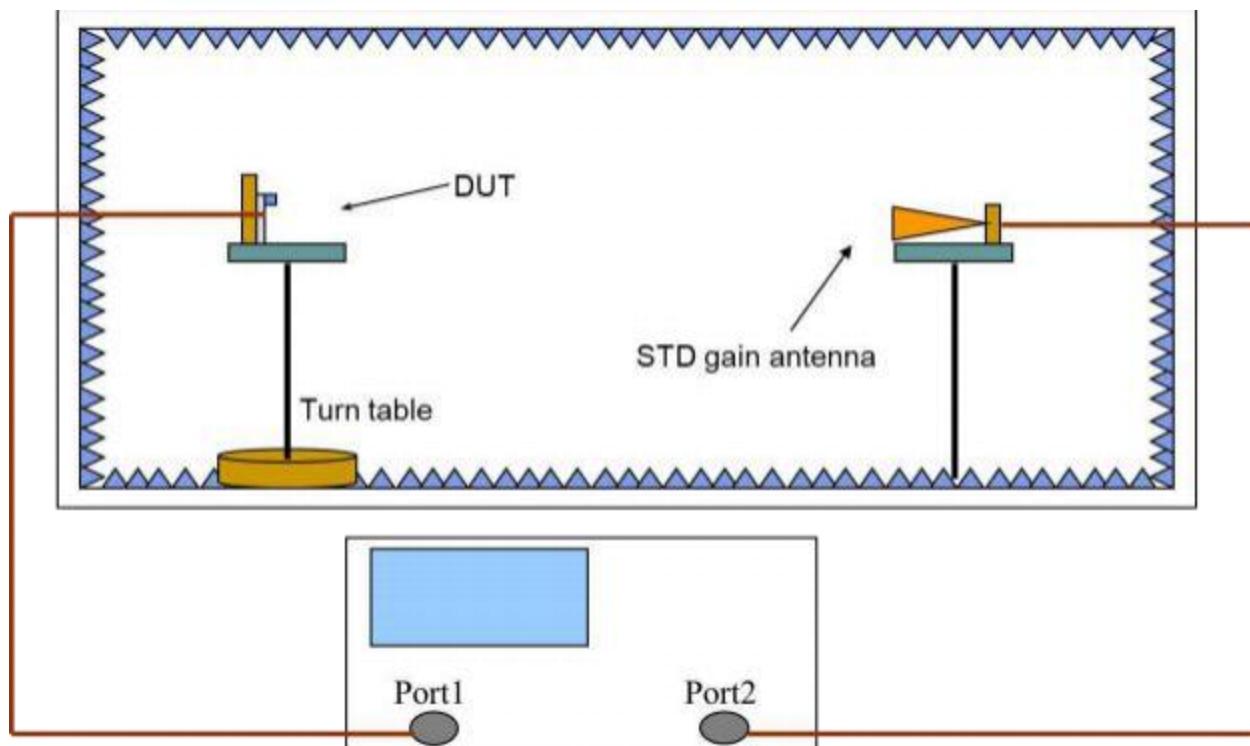
- .Chamber Size: 9 x 5 x 4 m³
- .Freq. Range: 0.4 ~ 18.0 GHz
- .Double Ridge Horn Antenna
- .VNA: Agilent E5071C
- .3D Turning Table and Positioner
- .ADT Solution 3D Testing Software





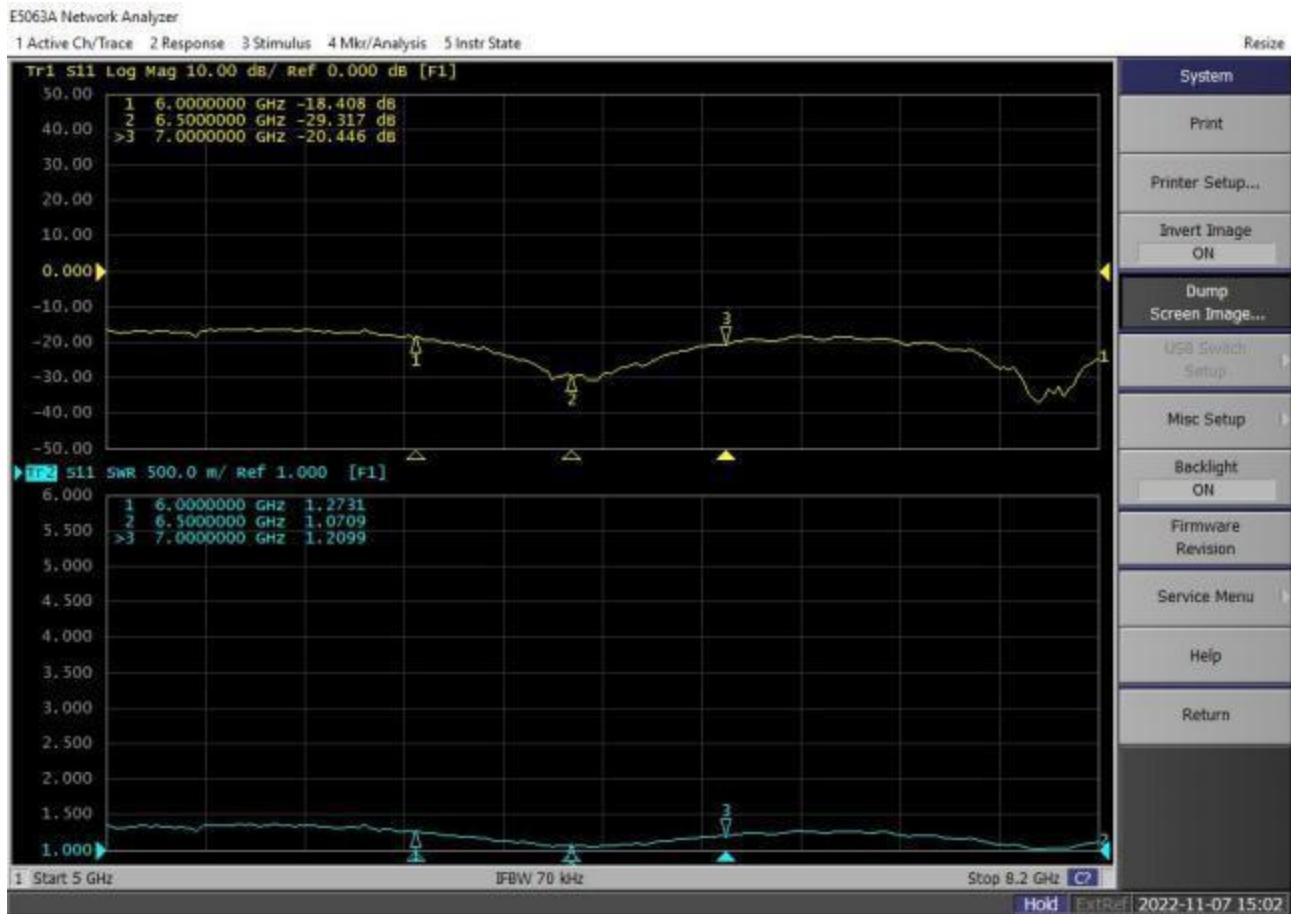
东莞市联兆电子有限公司

Dongguan lianzhao electronics CO.LTD





VSWR

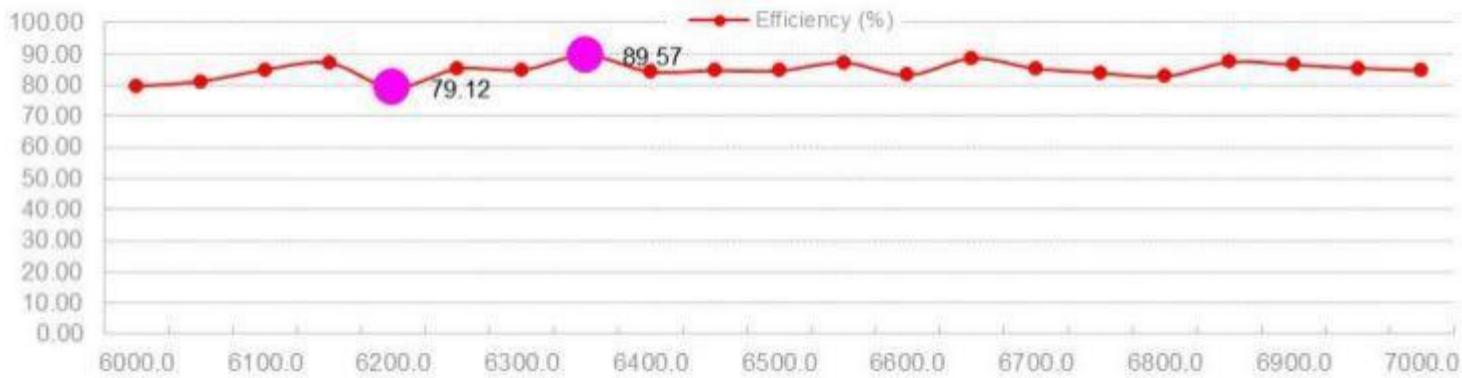




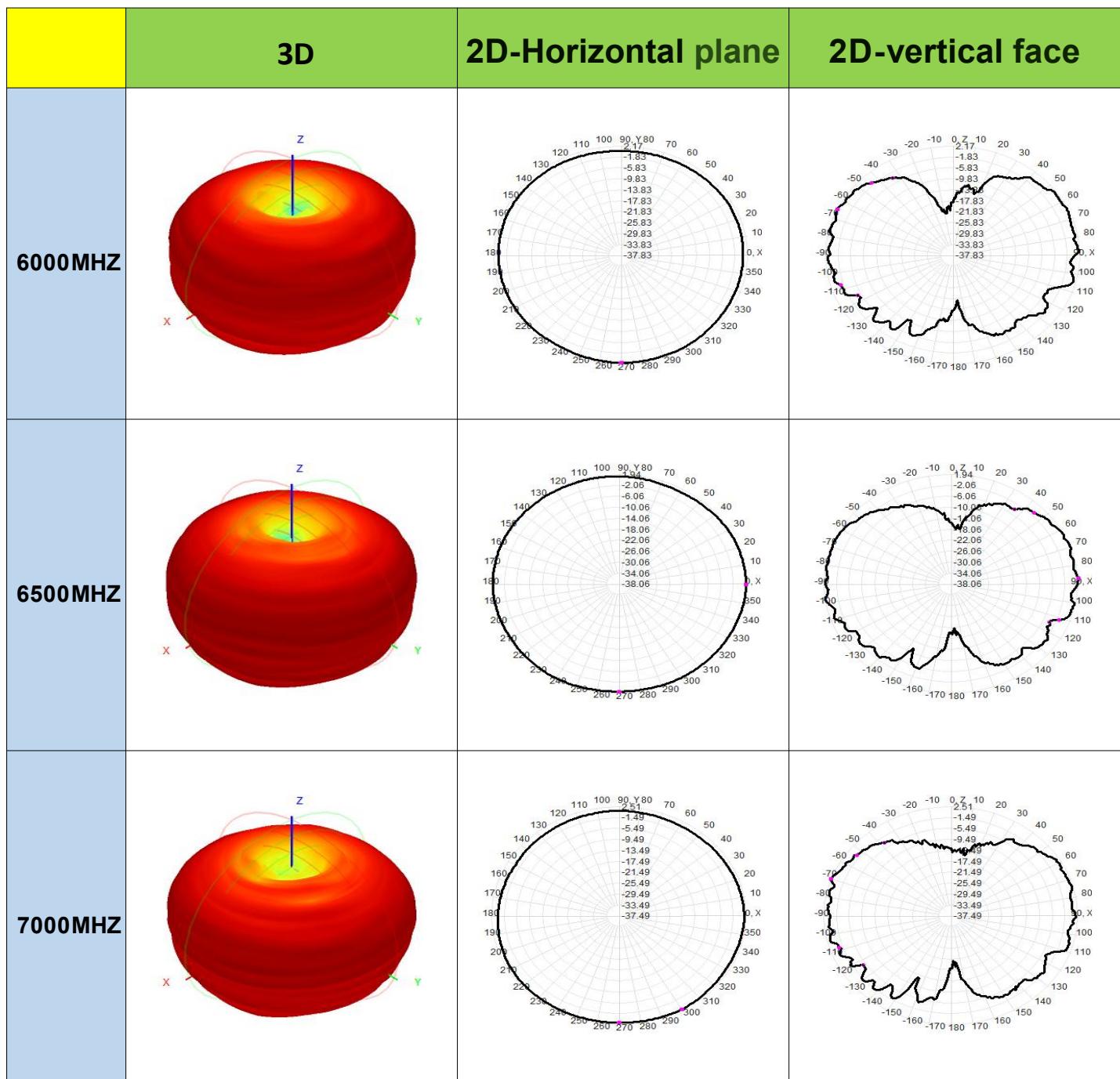
Total Efficiency & Gain:

| Frequency (MHz) | 6000.0 | 6050.0 | 6100.0 | 6150.0 | 6200.0 | 6250.0 | 6300.0 | 6350.0 | 6400.0 | 6450.0 | 6500.0 |
|-----------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Gain (dBi) | 2.39 | 2.33 | 2.55 | 2.72 | 2.52 | 2.53 | 2.34 | 2.57 | 2.30 | 2.13 | 2.10 |
| Efficiency (%) | 79.62 | 81.17 | 84.94 | 87.18 | 79.12 | 85.24 | 84.86 | 89.57 | 84.31 | 84.70 | 84.59 |

| Frequency (MHz) | 6550.0 | 6600.0 | 6650.0 | 6700.0 | 6750.0 | 6800.0 | 6850.0 | 6900.0 | 6950.0 | 7000.0 |
|-----------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Gain (dBi) | 2.27 | 2.17 | 2.37 | 2.11 | 2.04 | 2.06 | 2.54 | 2.68 | 2.63 | 2.51 |
| Efficiency (%) | 87.26 | 83.20 | 88.59 | 85.31 | 83.90 | 82.78 | 87.40 | 86.52 | 85.42 | 84.65 |



Field diagram





out-of-roundness

