

# Antenna

# **YF0002DA** Datasheet

## Antenna Services

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Build a Smarter World

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# About the Document

## Revision History

Version	Date	Author	Note
1.0	2020-06-08	Kenny YIN	First official release
1.1	2021-03-12	Kenny YIN	1. Added the installation method (Chapter 3); 2. Updated the drawing (Chapter 5).

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## 1 Product Description

The antenna is designed for superior performance, and can be widely used for wireless applications.

We provide comprehensive antenna design support such as simulation, testing and manufacturing for custom antenna solutions to meet your specific application needs.

## 2 Product Features

- Cellular 5G MIMO
- High efficiency
- Excellent performance



### 3 Product Specifications

#### Passive Electrical Specifications

Frequency Range	700–960 MHz; 1710–2700 MHz; 3300–5000 MHz
Input Impedence	50 $\Omega$
VSWR	$\leq 5.0$
Gain	$\leq 3$ dBi
Polarization Type	Linear

#### Mechanical Specifications

Antenna Size	50.25 mm x 20.1 mm x 10.1mm
Casing	ABS
Working Temperature	-40 °C to +75 °C
Radome Color	Black
Installation Method	M1.6 screw

## 4 Overall Performance

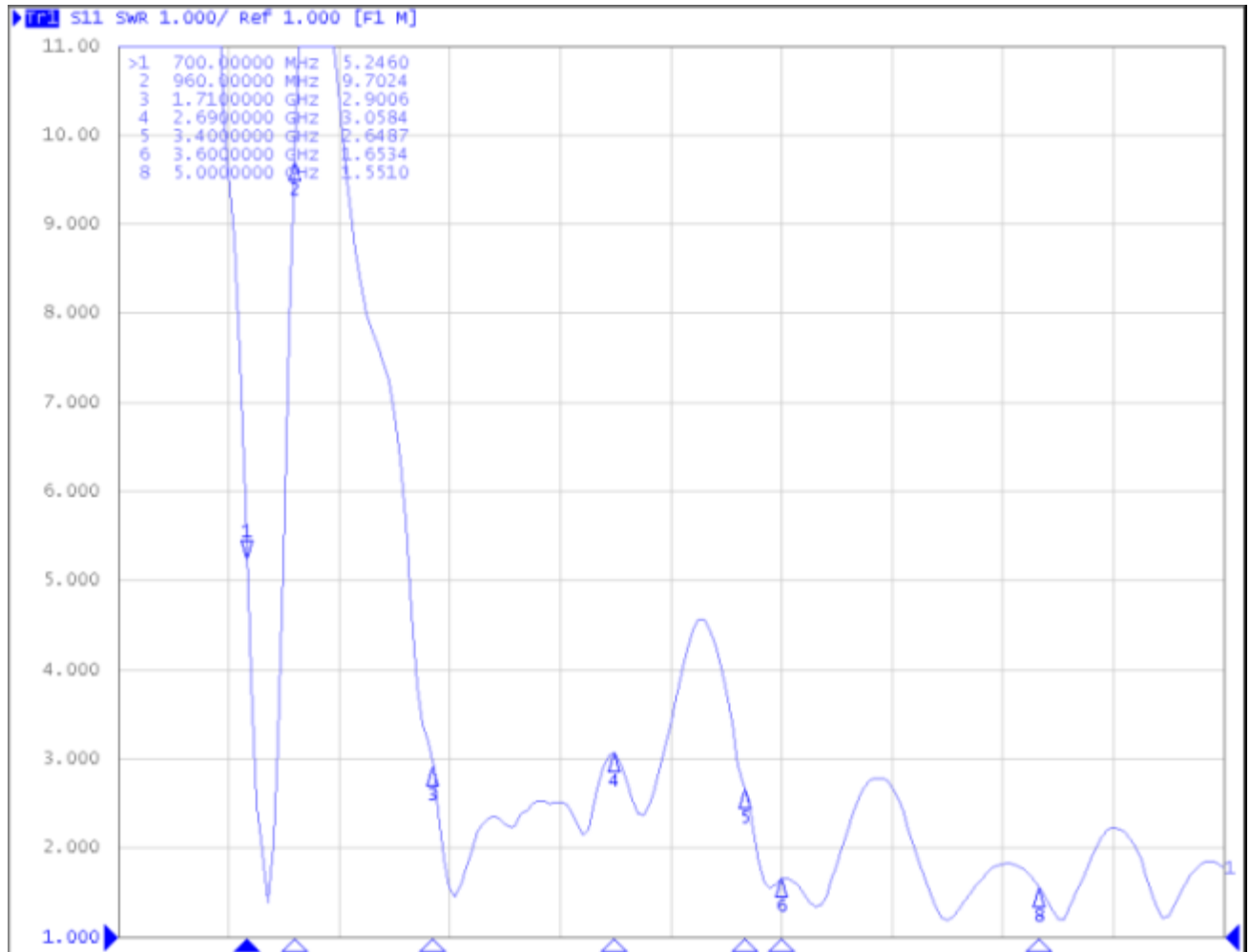
### 4.1. Test Environment

- KEYSIGHT VNA Network Analyzer E5063A 100 kHz – 6.5 GHz
- RayZone® 2800 Chamber 5G (FR1) SISO/MIMO 400 MHz – 6.0 GHz

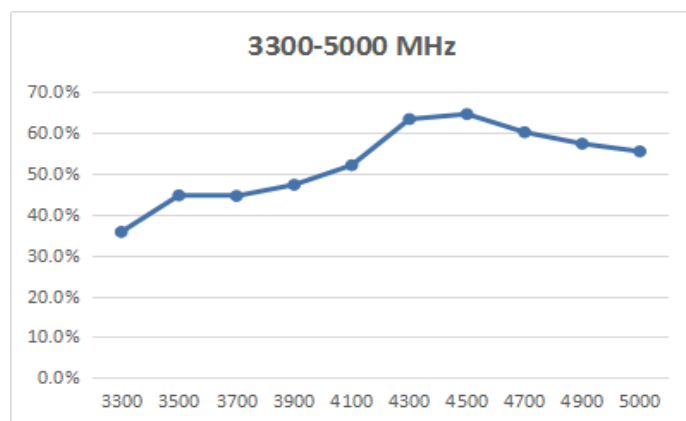
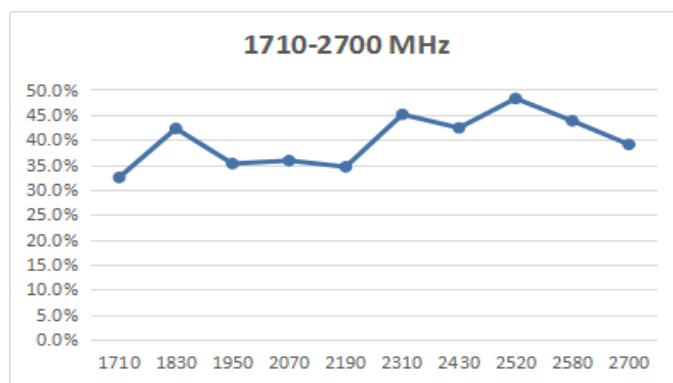
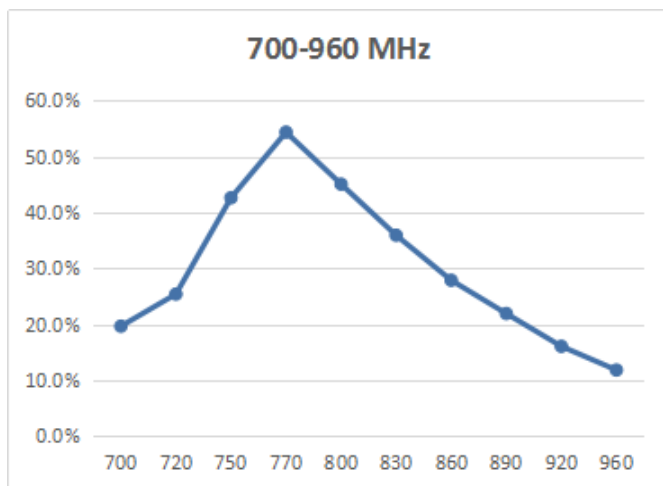




## 4.2. VSWR

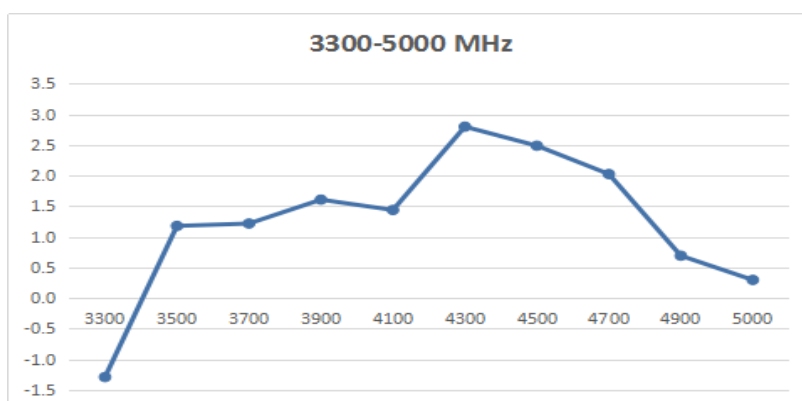
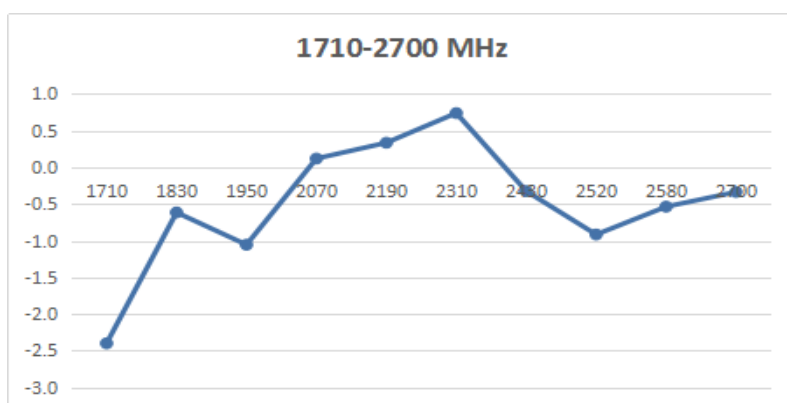
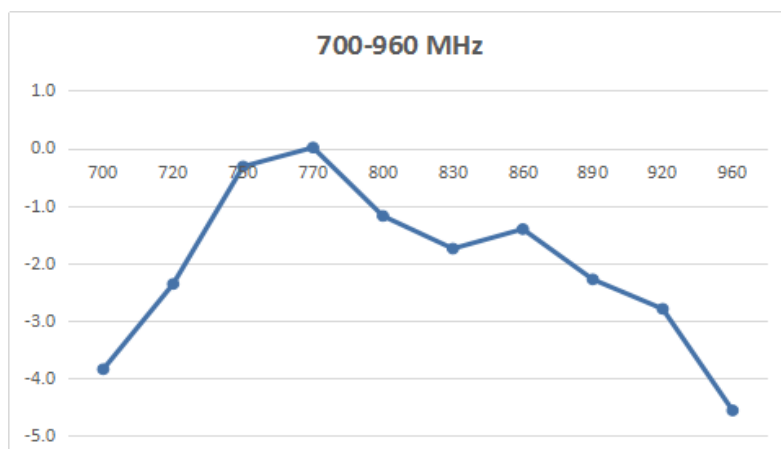


### 4.3. Efficiency



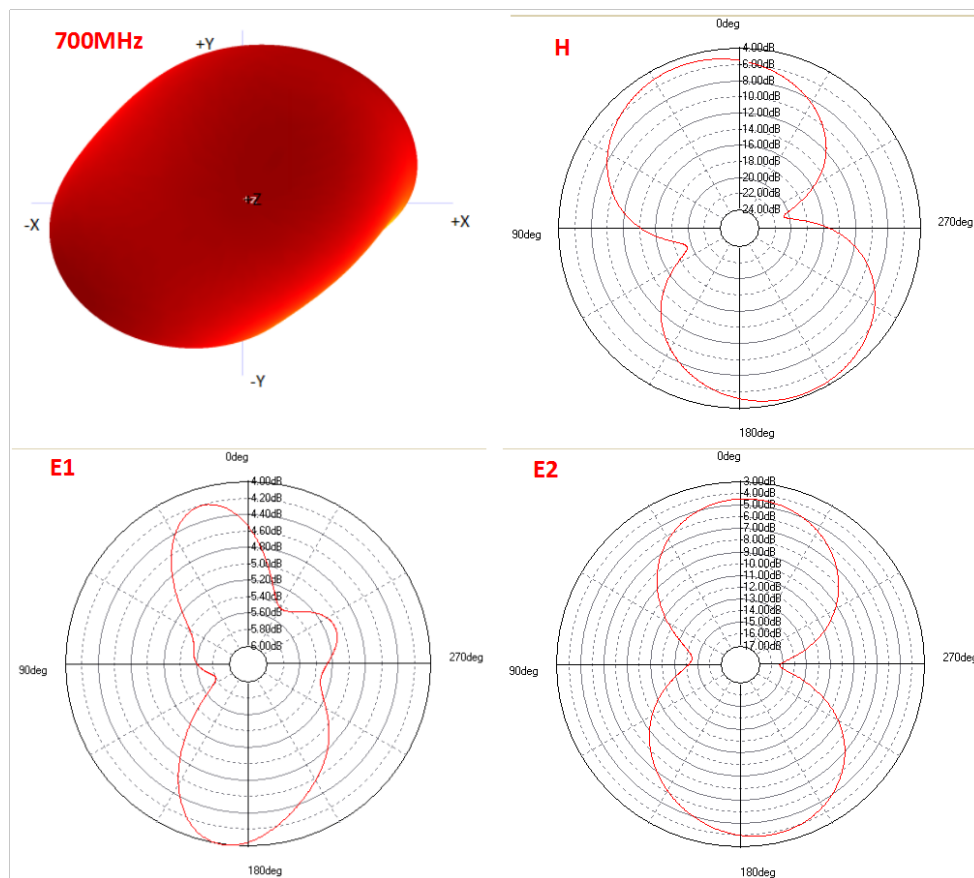
Frequency (MHz)	700	830	960	1710	2190	2700	3300	4100	5000
Efficiency (%)	19.7	35.9	11.8	32.5	34.6	39.0	35.7	52.1	55.5

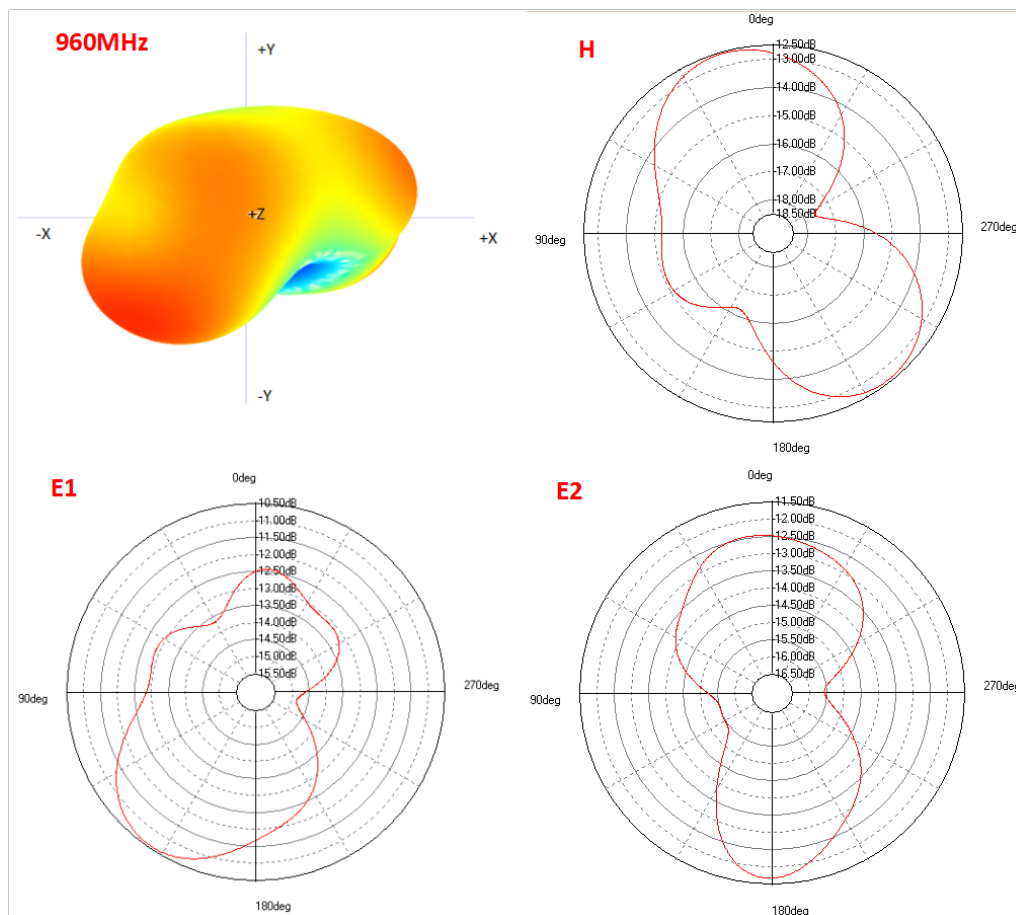
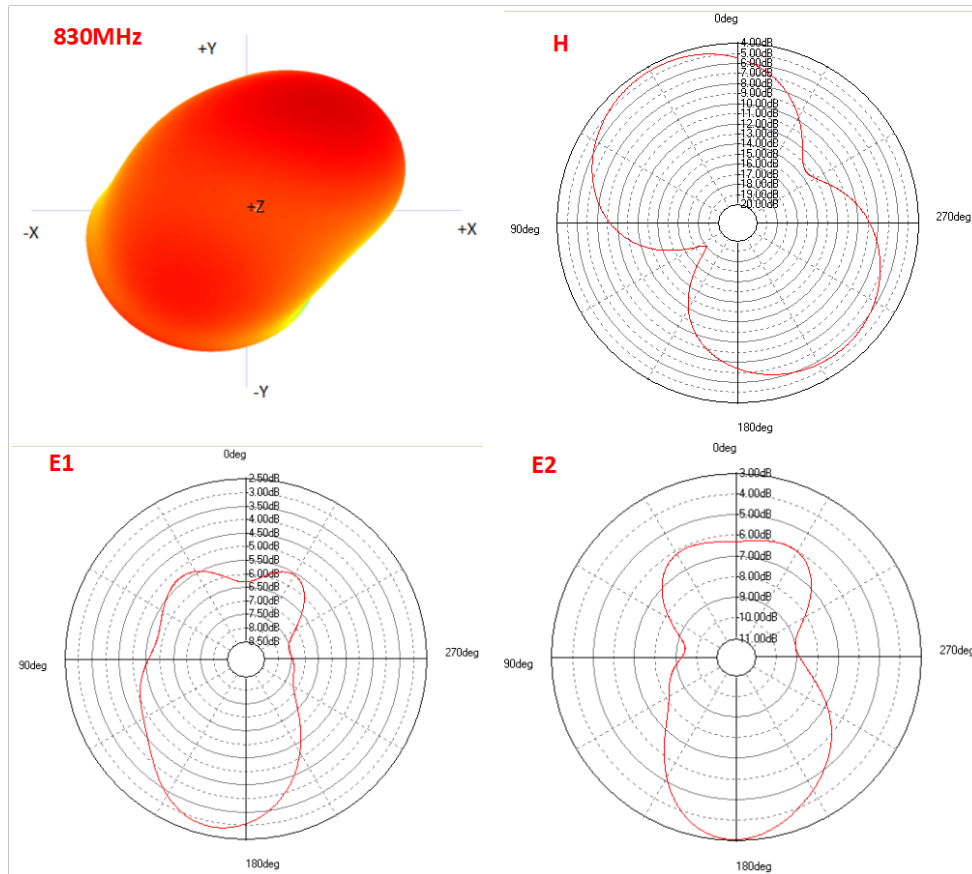
## 4.4. Gain

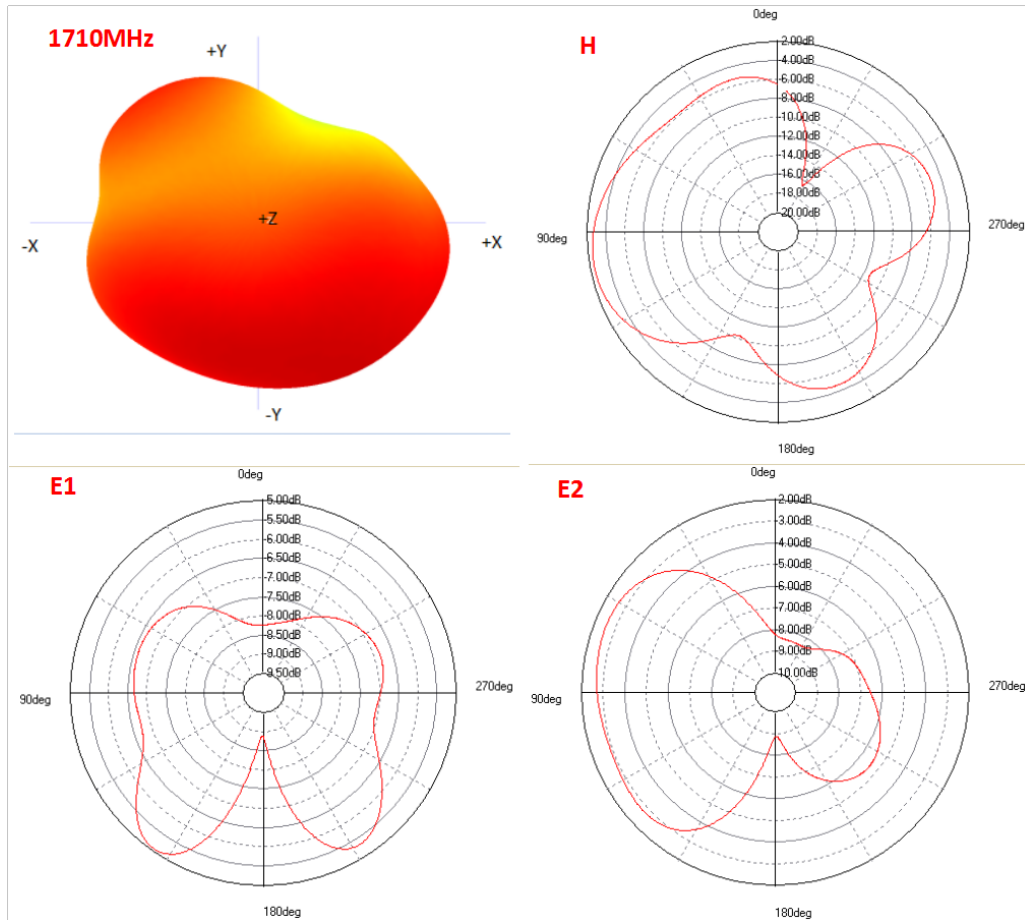


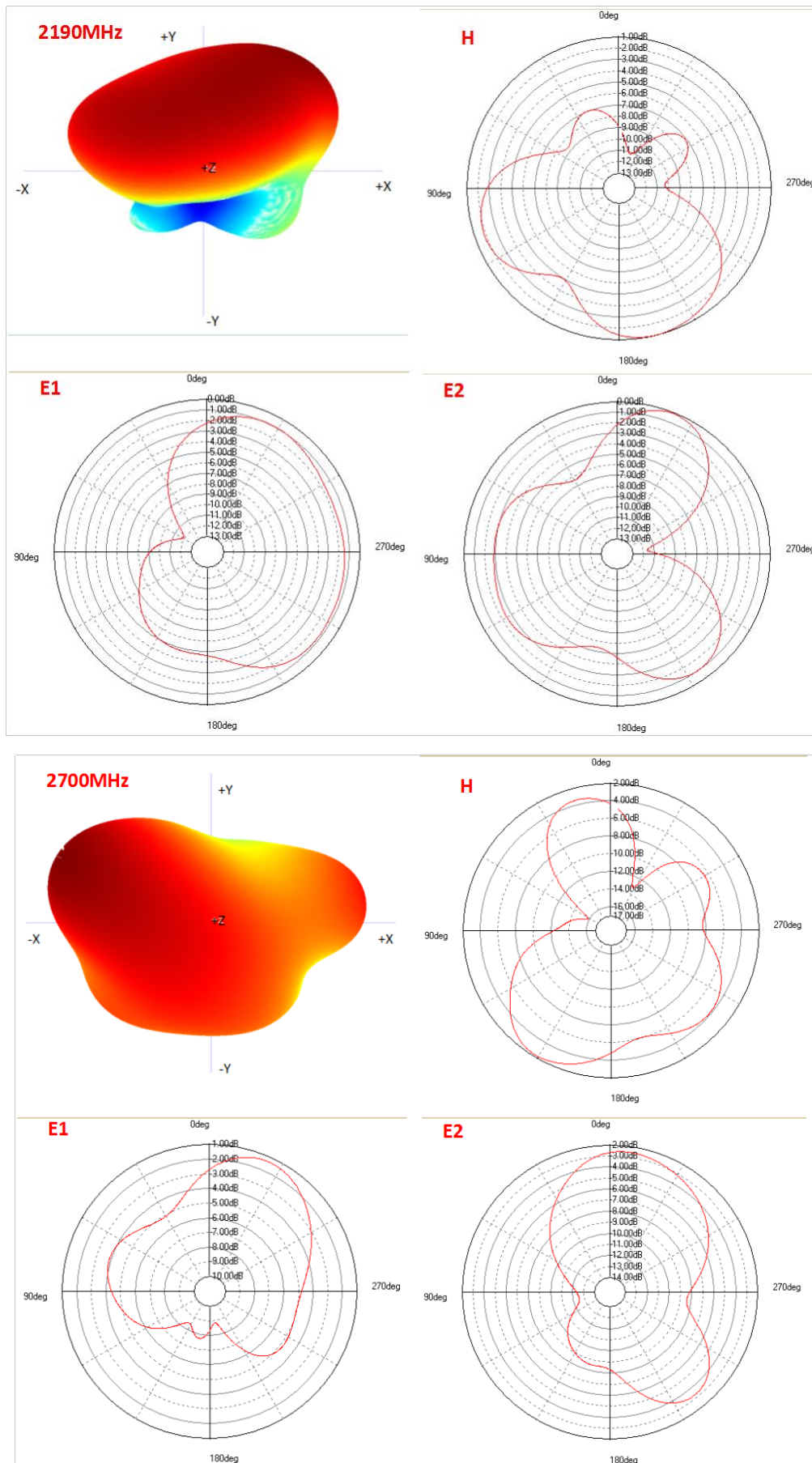
Frequency (MHz)	700	830	960	1710	2190	2700	3300	4100	5000
Gain(dBi)	-3.9	-1.8	-4.6	-2.4	0.3	-0.3	-1.3	1.4	0.3

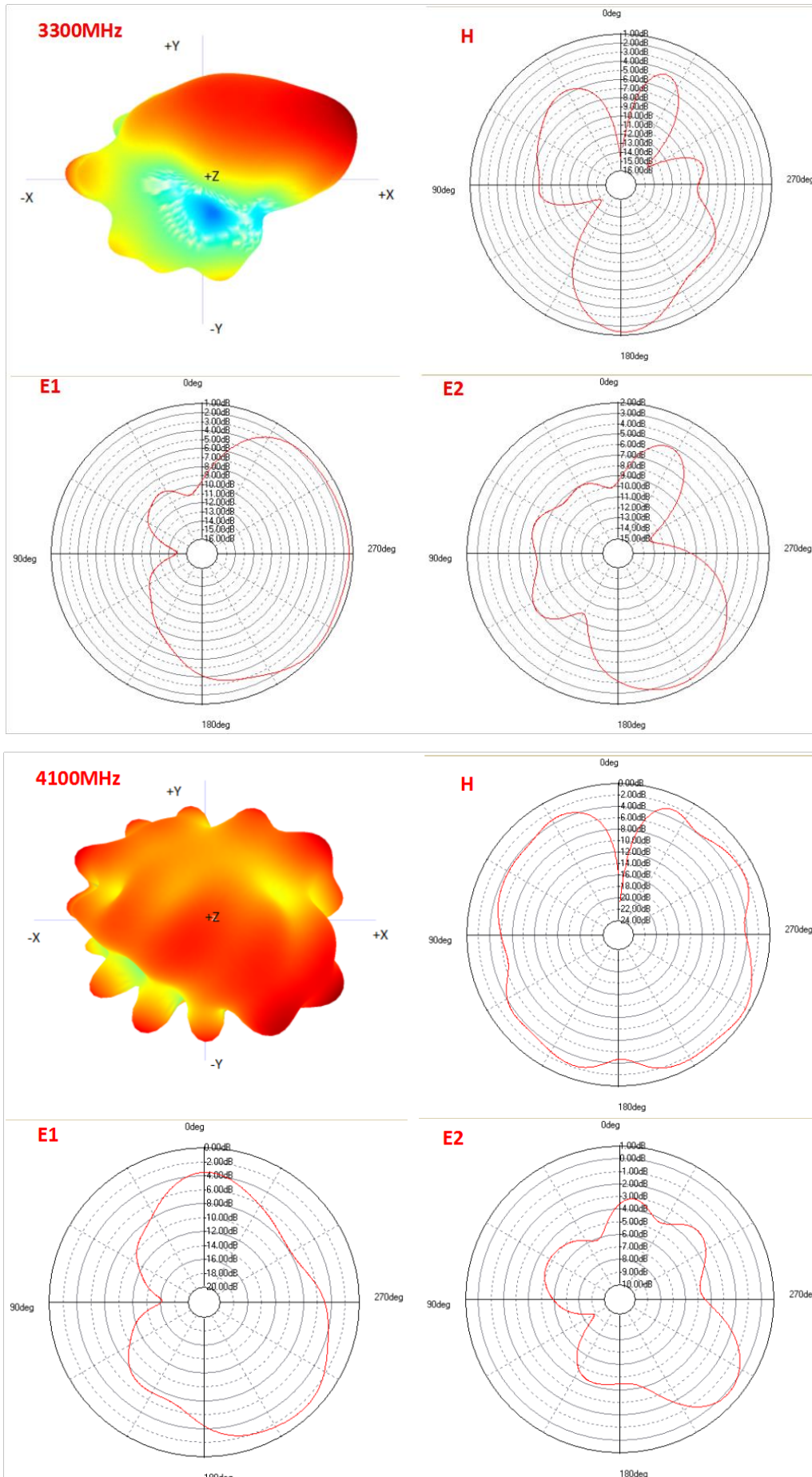
## 4.5. Radiation Patterns



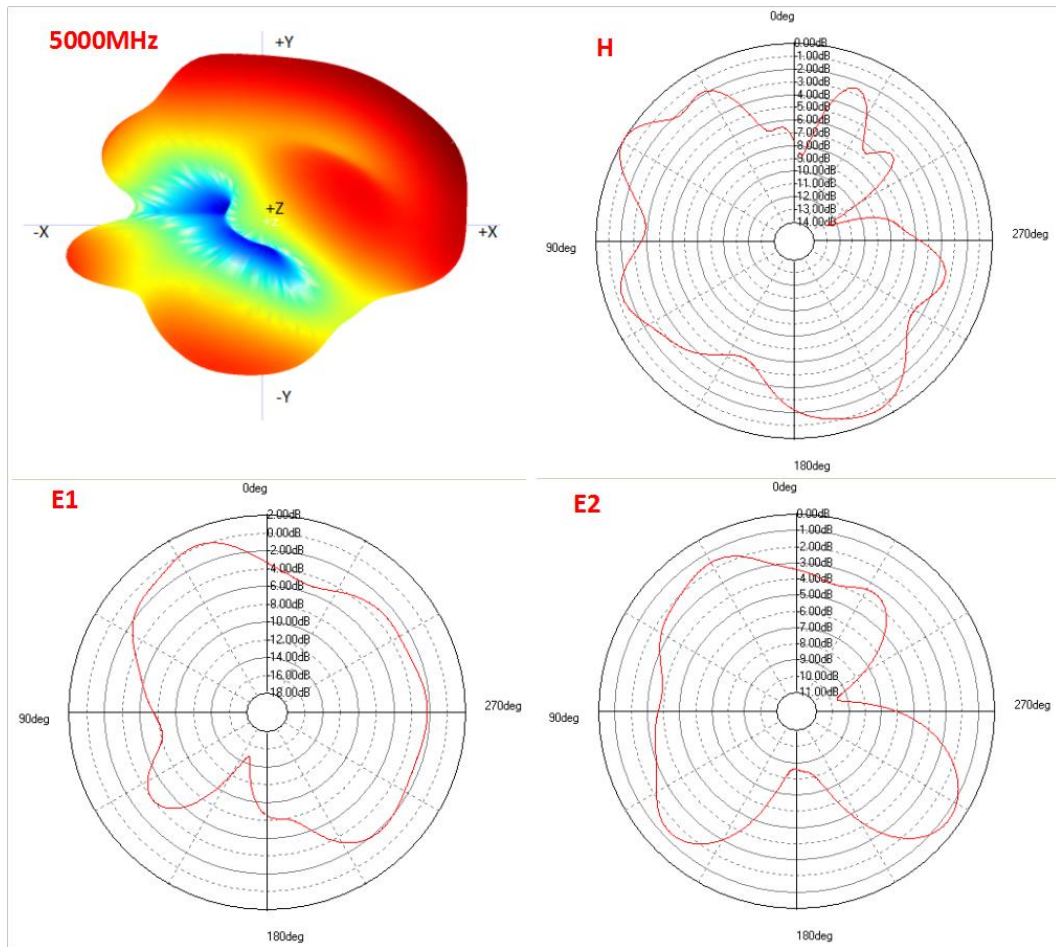




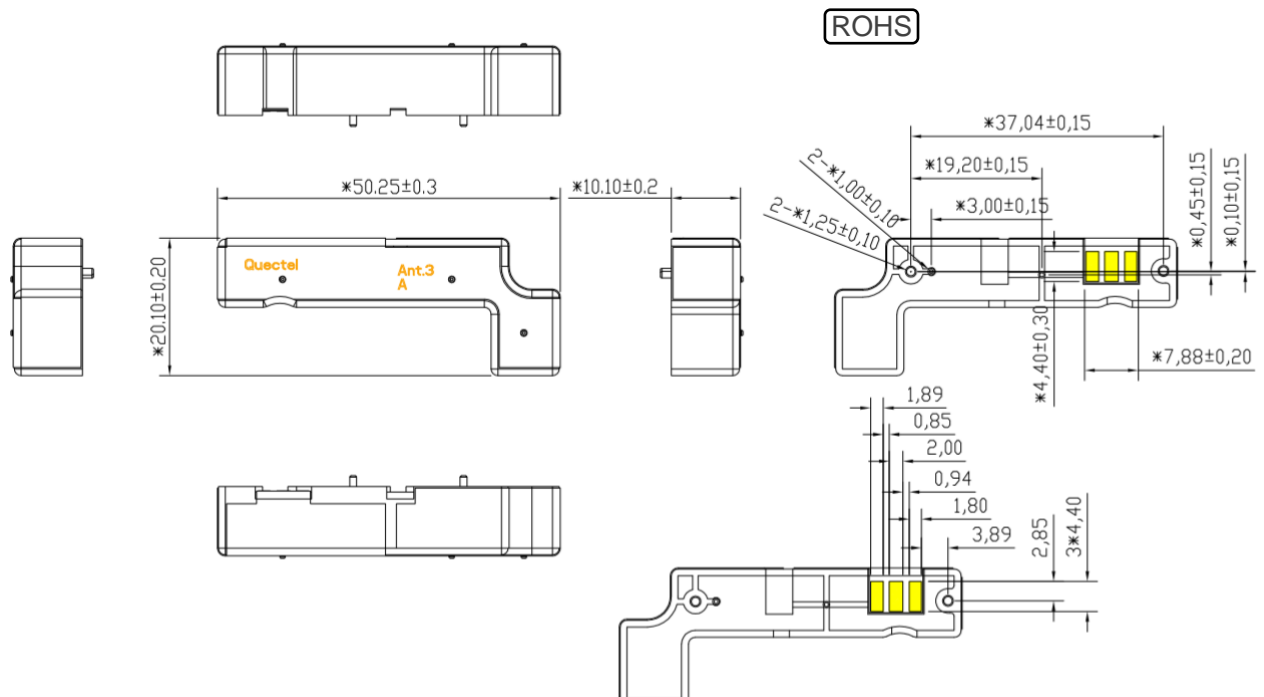








## 5 Product Size



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