

# Antenna

# YF0002CA Datasheet

OC: YF0002CA



Version	Date	Author	Note
1.0	2020-06-08	Kenny YIN	Initial

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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	1710–2700 MHz/3300–5000 MHz
Input Impedance	50 $\Omega$
VSWR	$\leq 5.0$
Gain	$\leq 3$ dBi
Polarization Type	Linear

#### Mechanical Specifications

Antenna Size	37.25 mm $\times$ 9.6 mm $\times$ 10.1 mm
Casing	ABS
Radiator	Cuprum
Working Temperature	-40 $^{\circ}$ C to +75 $^{\circ}$ C
Radome Color	Black

## 4 Overall Performance

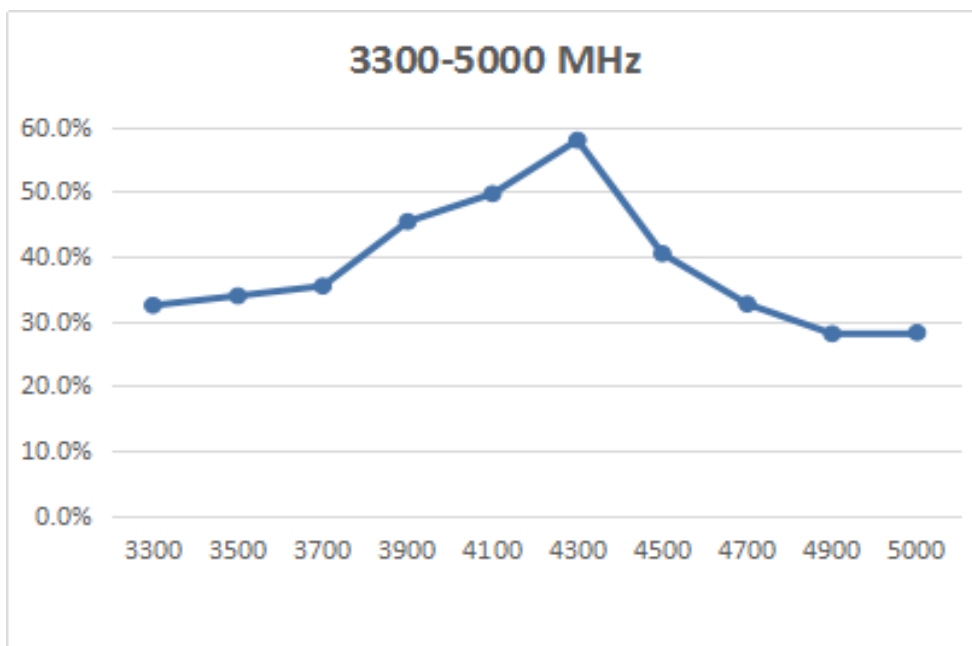
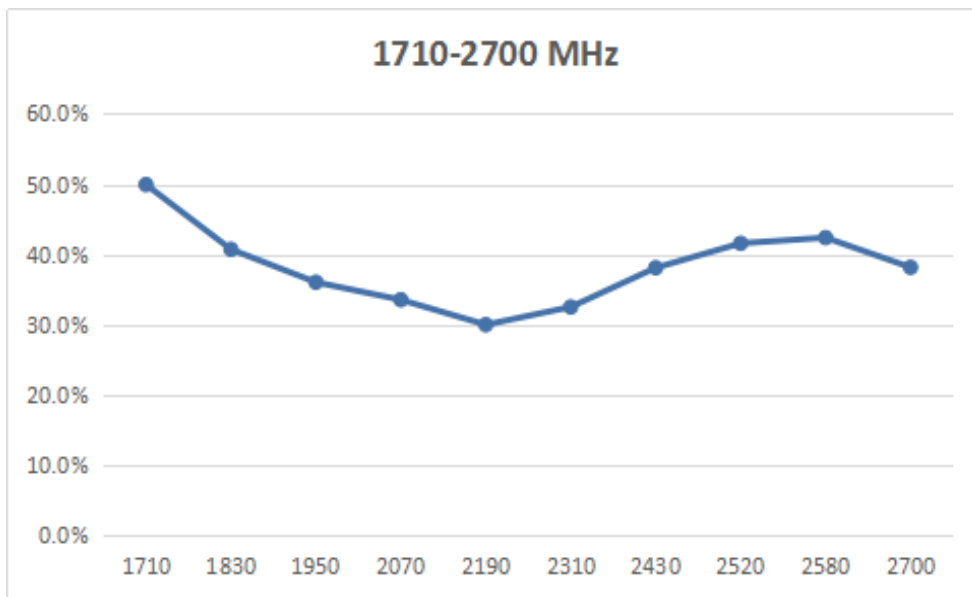
- Test Environment
  - KEYSIGHT VNA Network Analyzer E5063A 100 kHz – 6.5 GHz
  - RayZone® 2800 Chamber 5G (FR1) SISO/MIMO 400 MHz – 6.0 GHz



- VSWR

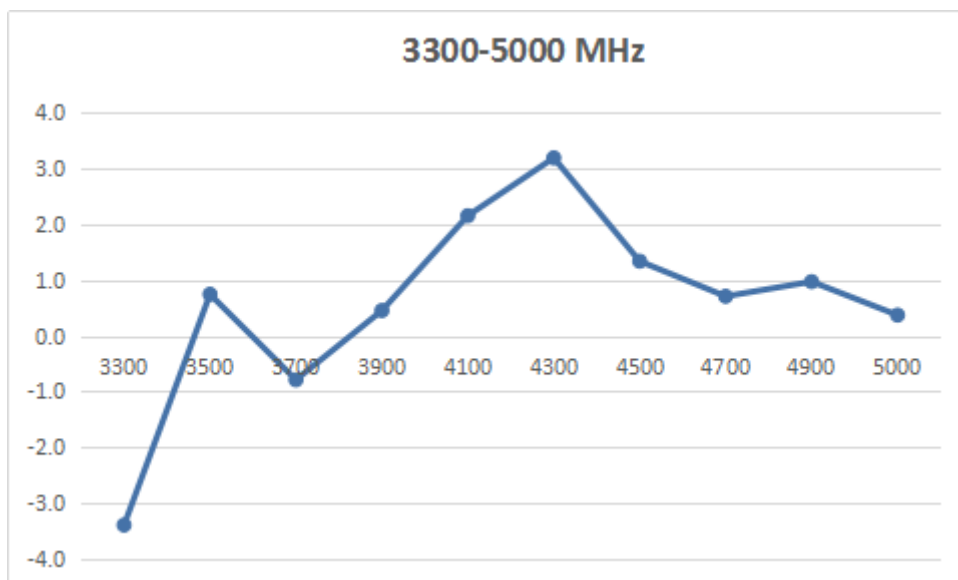
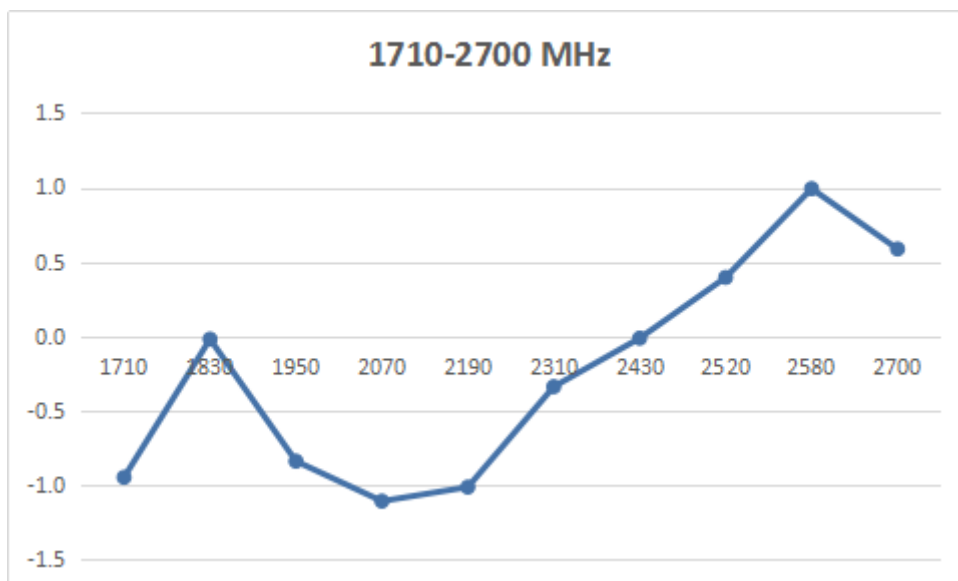


- Efficiency



<b>Frequency(MHz)</b>	1710	2190	2700	3300	4100	5000
<b>Efficiency(%)</b>	49.9	30.0	38.2	32.4	49.6	28.2

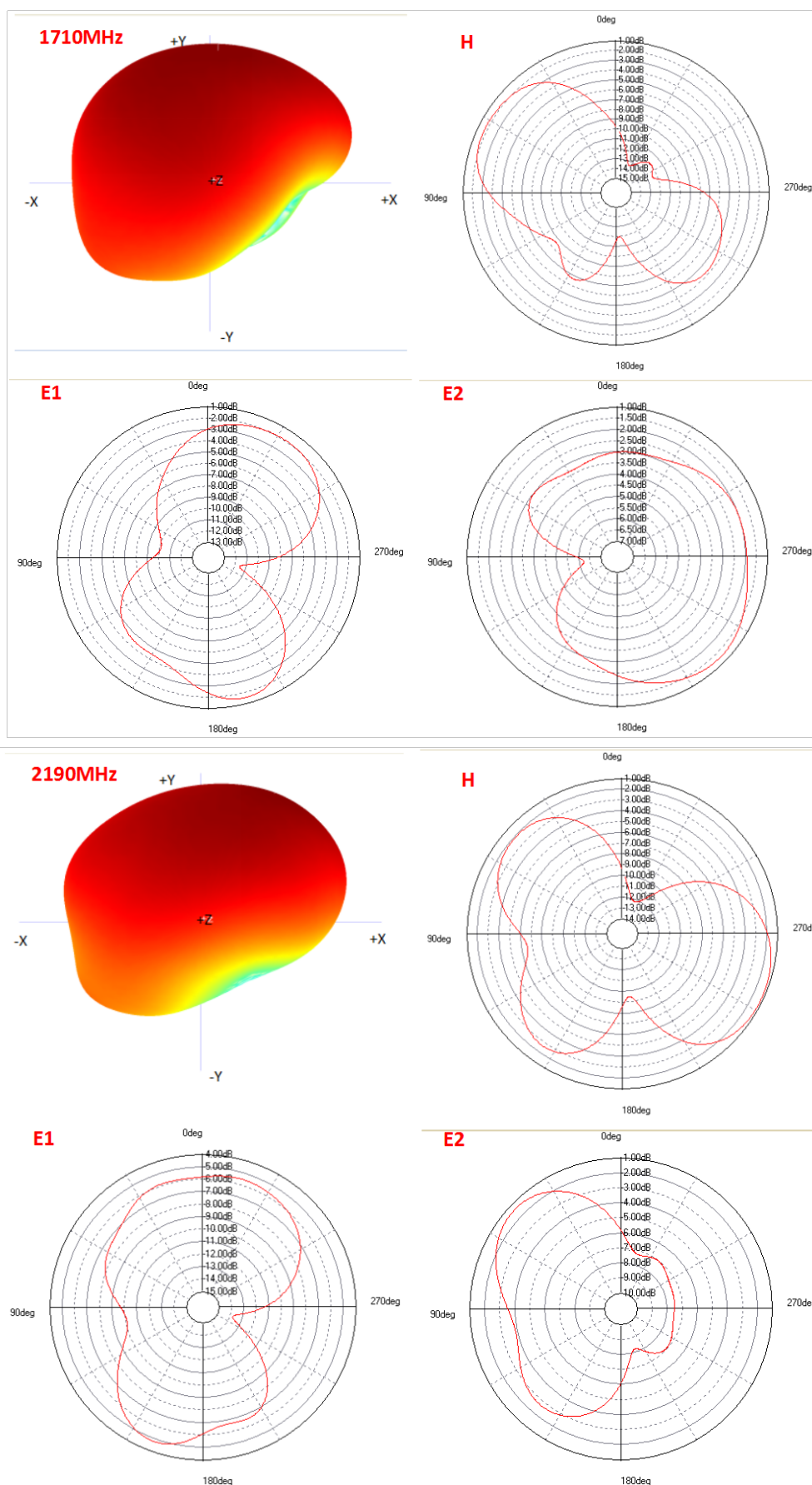
● Gain

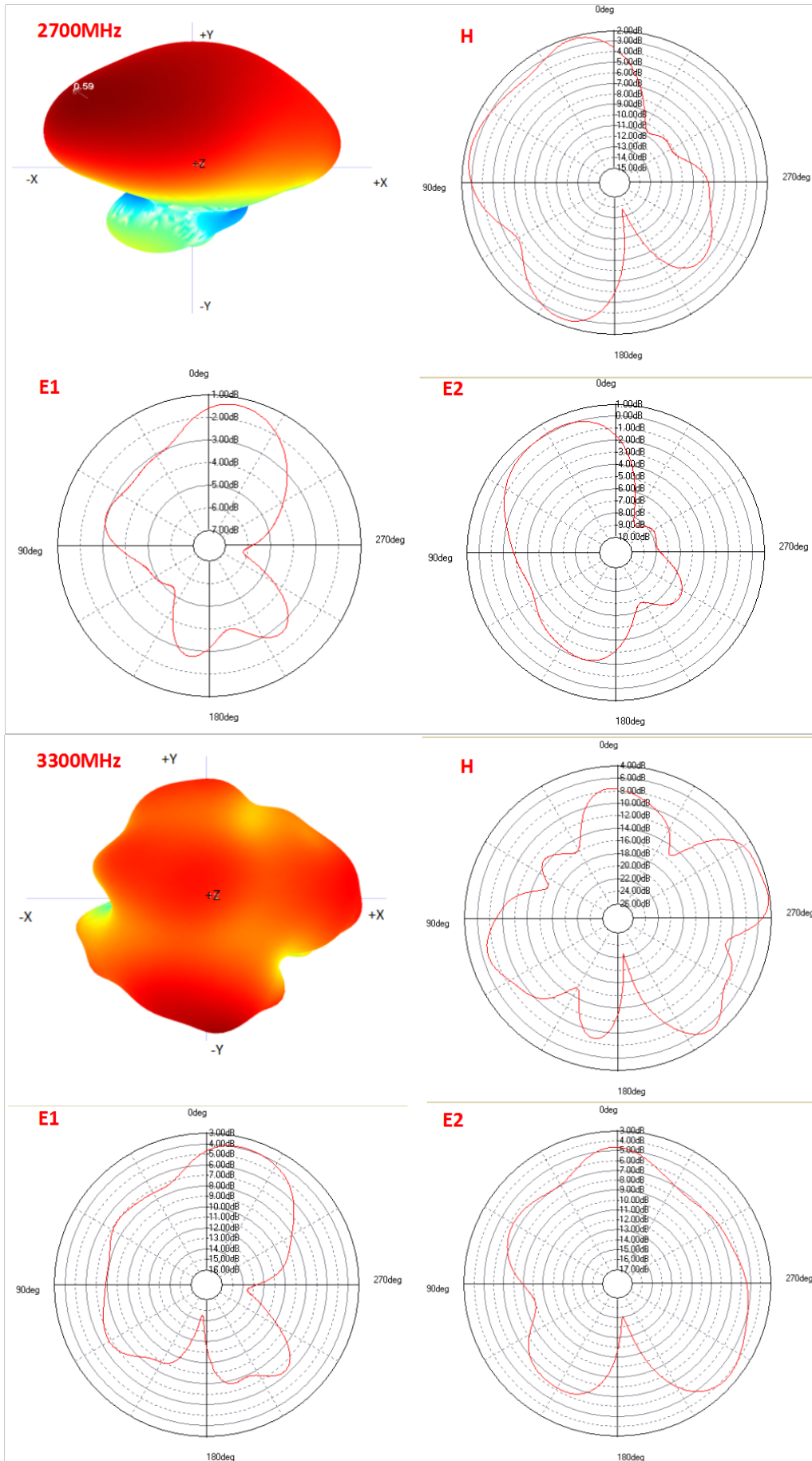


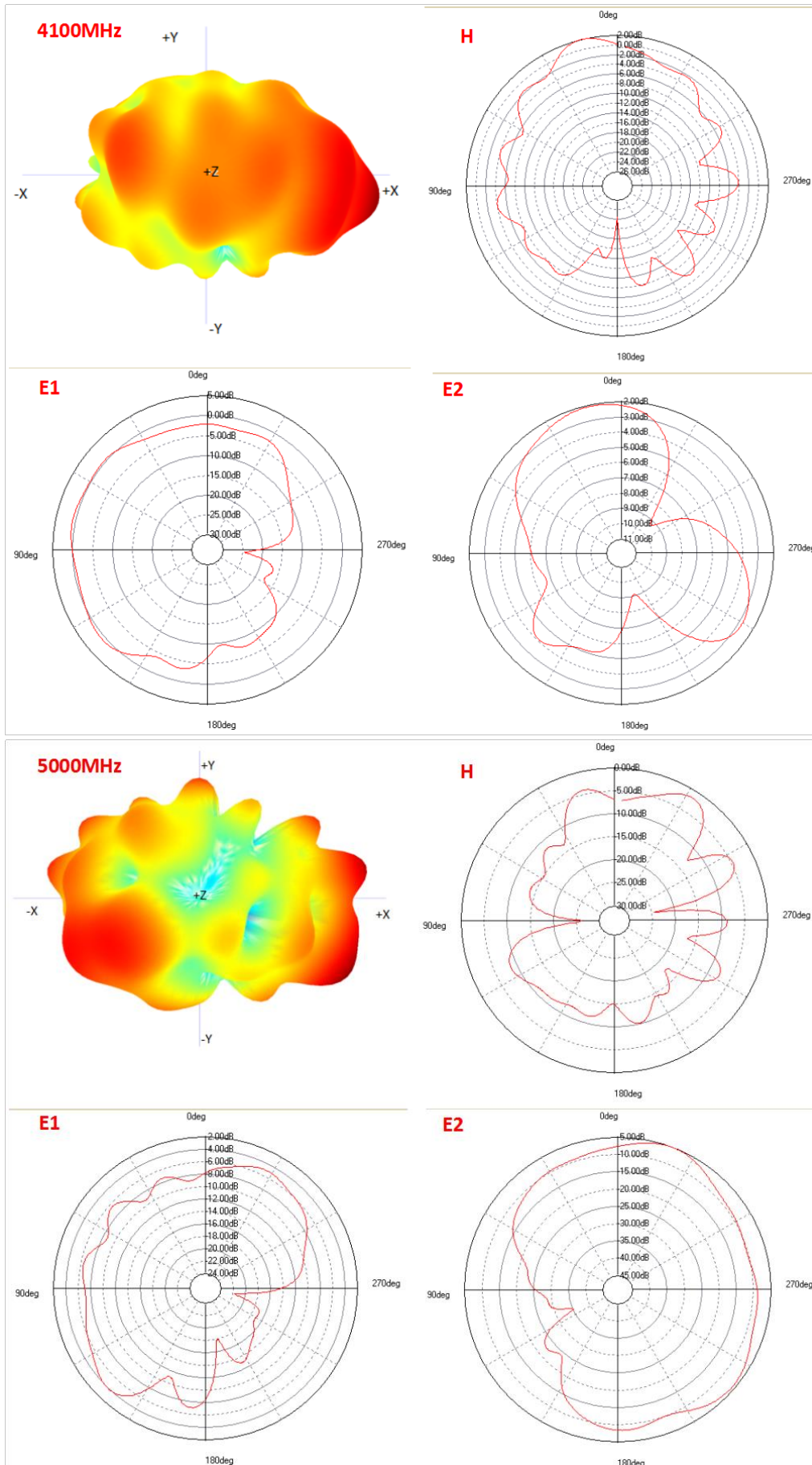
<b>Frequency(MHz)</b>	1710	2190	2700	3300	4100	5000
<b>Gain(dBi)</b>	-1.0	-1.0	0.6	-3.4	2.2	0.4



● Radiation Patterns







## 5 Product Size

