

Antenna

YGL001AA Datasheet

Antenna Services

Version: 1.2

Date: 2021-01-27

Status: Released



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About the Document

Revision History

Version	Date	Author	Note
-	2020-06-17	Kenny YIN	Creation of the document
1.0	2020-08-05	Kenny YIN	First official release
1.1	2020-12-17	Kenny YIN	Updated the picture of the antenna in Chapter 2.
1.2	2021-01-27	Kenny YIN	Added IP rating description.

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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 LTE
- High efficiency
- Excellent performance



3 Product Specifications

Passive Electrical Specifications

Frequency Range	700–960 MHz, 1710–2690 MHz
Input Impedance	50 Ω
VSWR	≤ 5.0
Gain	≤ 3 dBi
Polarization Type	Linear

Mechanical Specifications

Antenna Size	196.2 mm × 16 mm × 13 mm
Casing	ABS
Connector Type	SMA Male (center pin)
Working Temperature	-30 °C to +65 °C
Radome Color	White
IP rating	IP55

4 Overall Performance

4.1. Test Environment

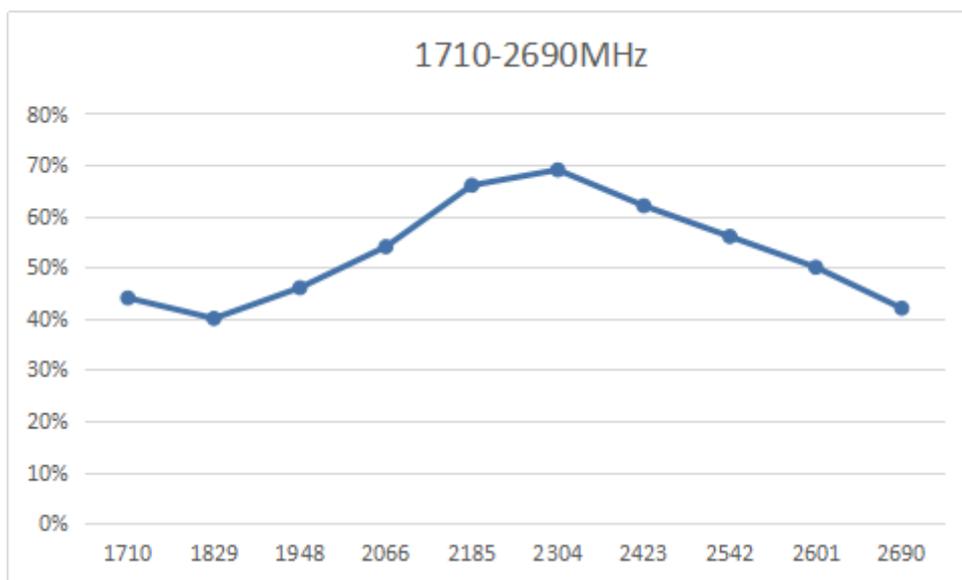
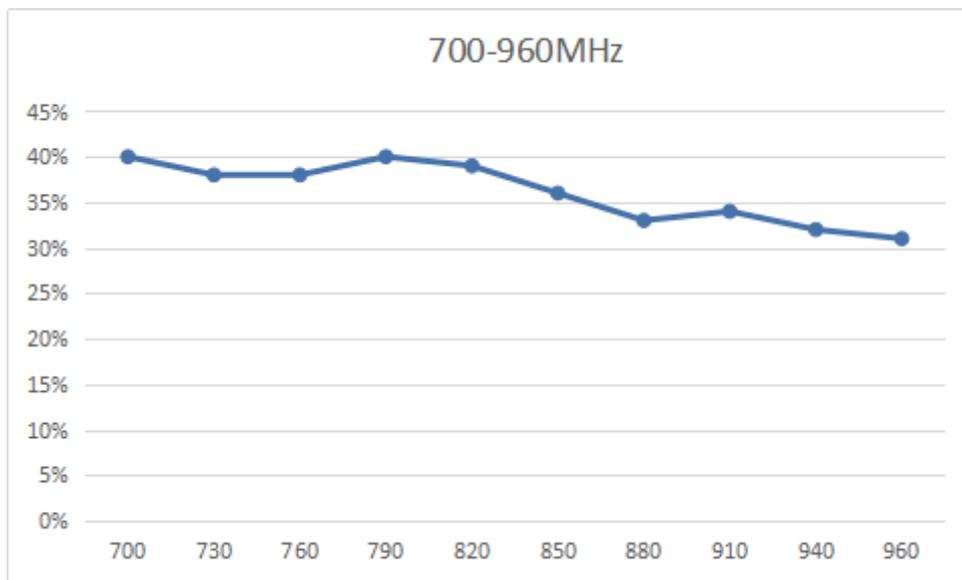
- KEYSIGHT VNA Network Analyzer E5063A, 100 kHz – 6.5 GHz.
- RayZone®2800 Chamber 5G (FR1) SISO/MIMO, 400 MHz – 6.0 GHz.



4.2. VSWR

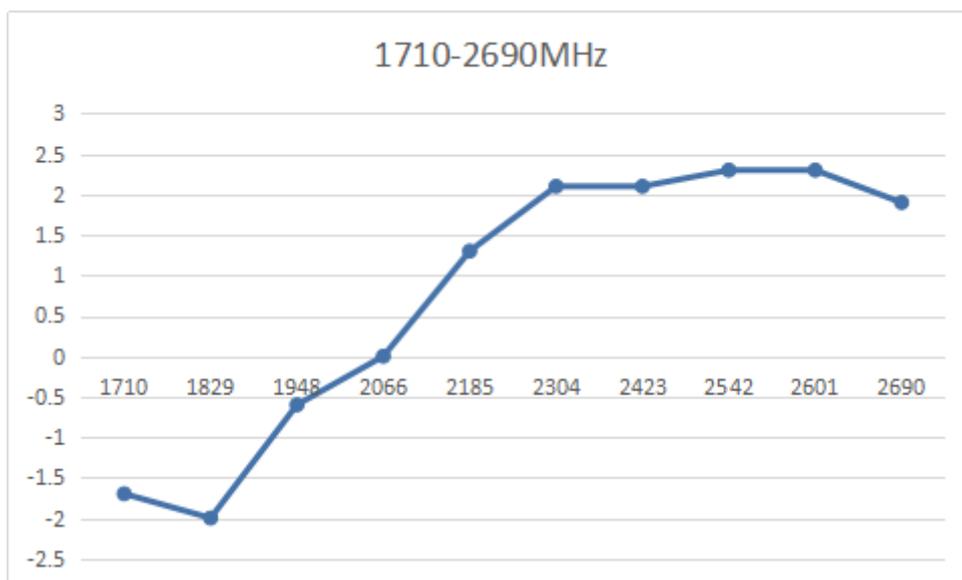
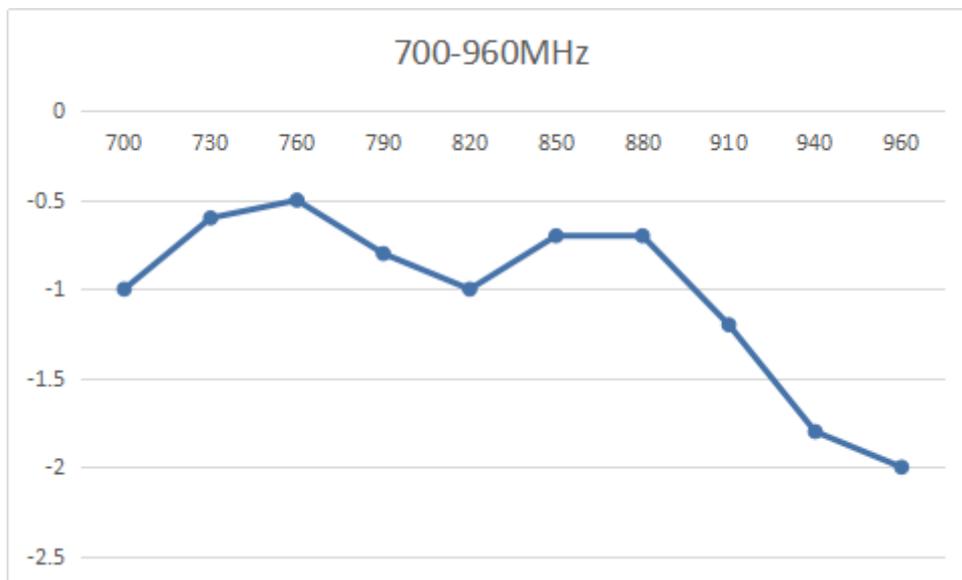


4.3. Efficiency



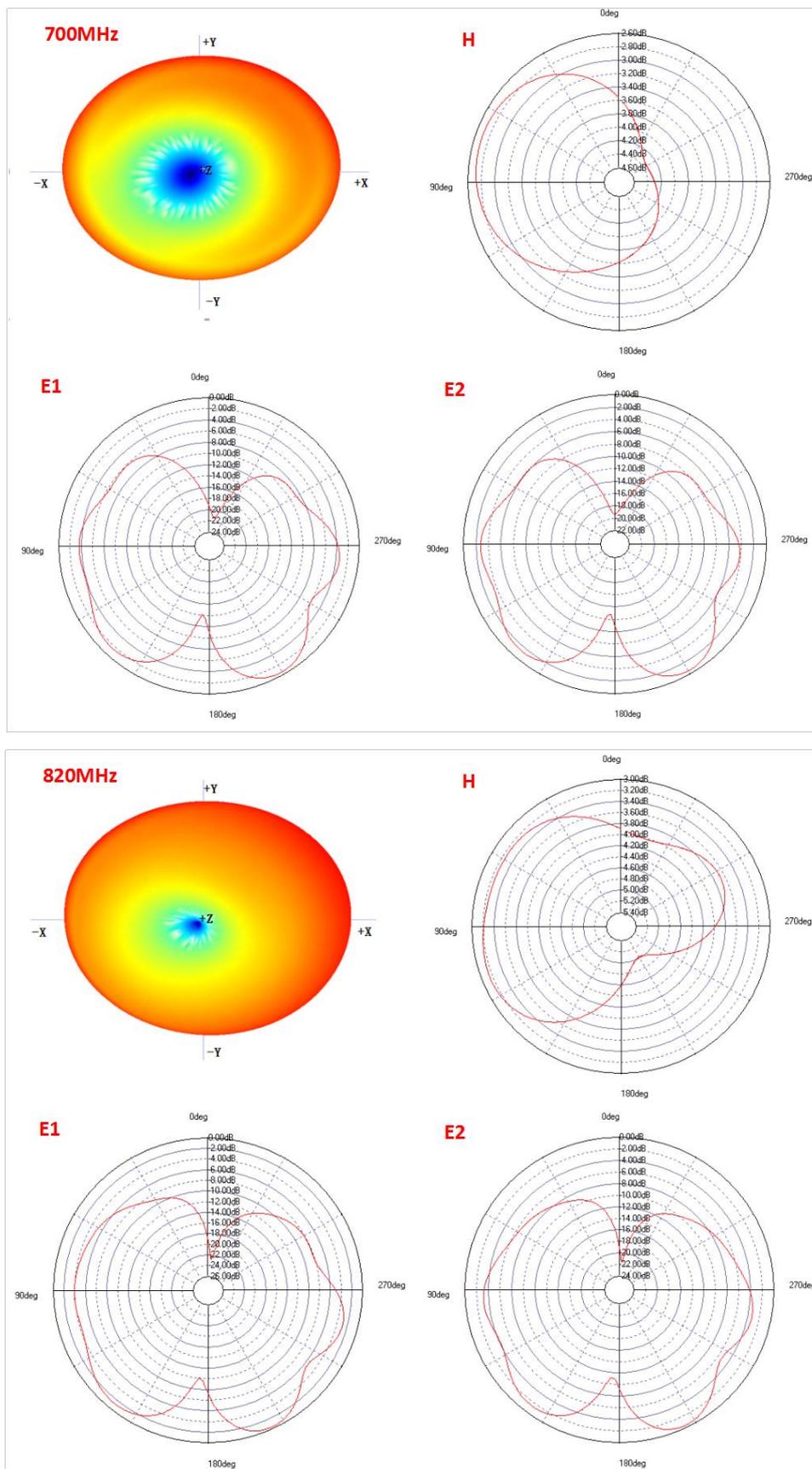
Frequency (MHz)	700	760	820	910	960	1710	1948	2185	2542	2690
Efficiency	40%	38%	39%	34%	31%	44%	46%	66%	56%	42%

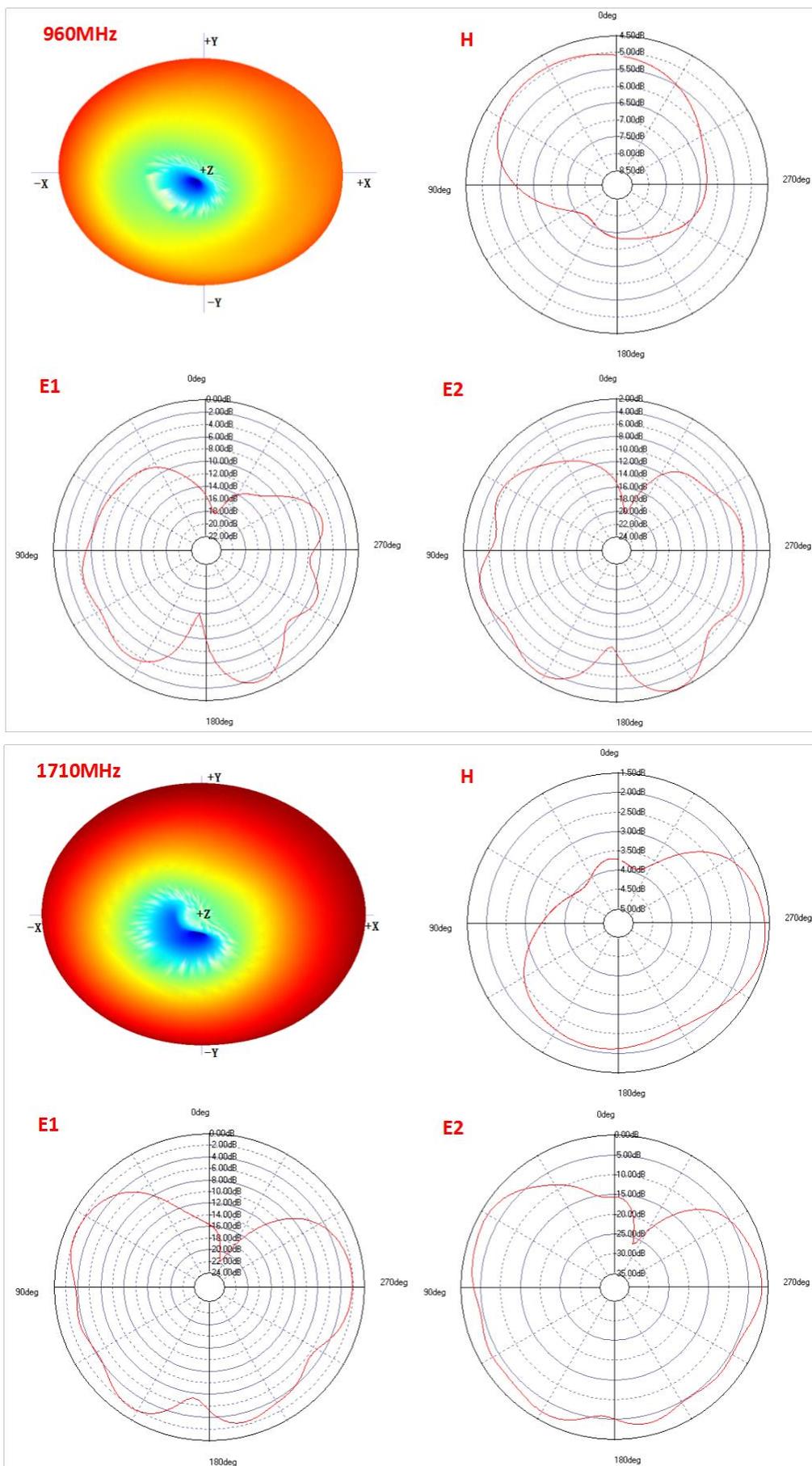
4.4. Gain

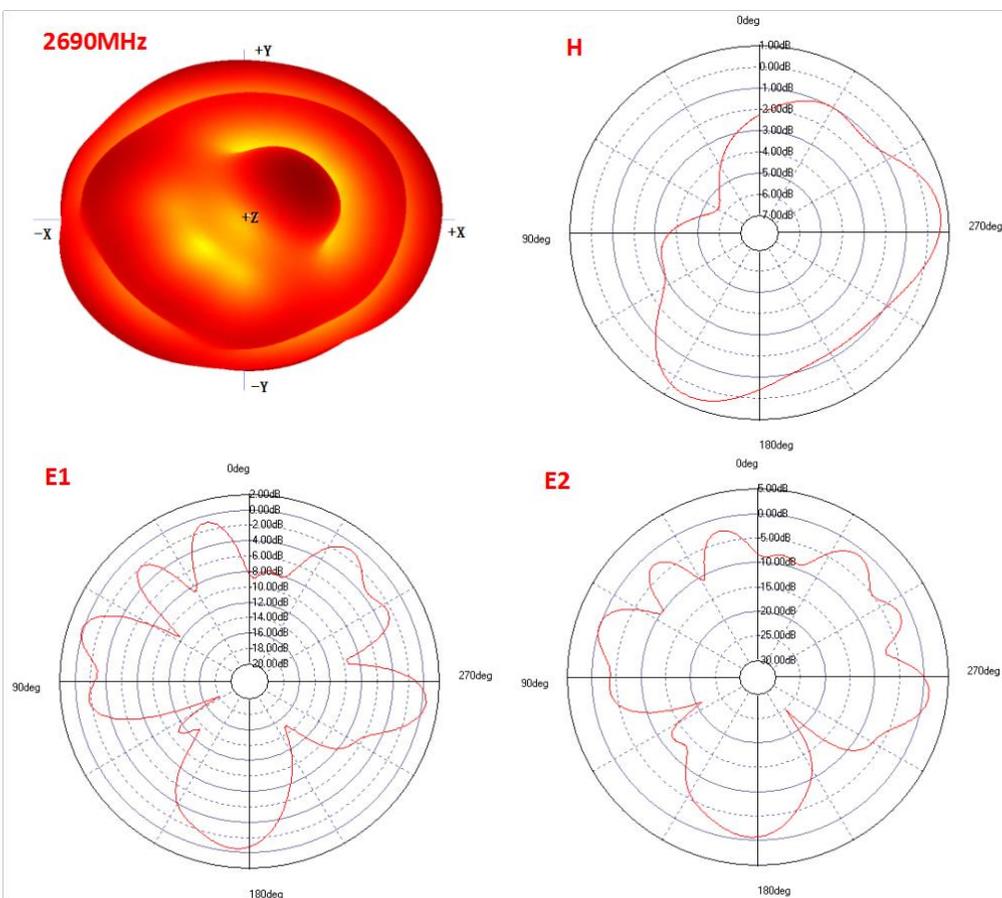
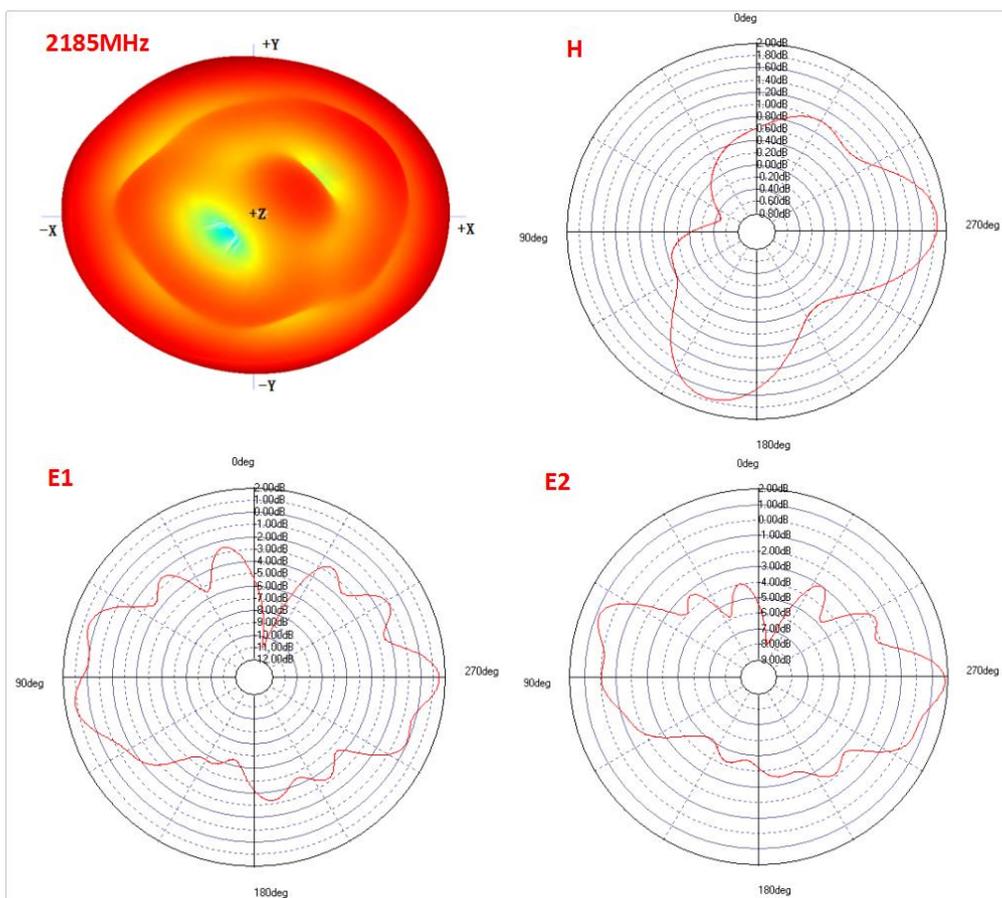


Frequency (MHz)	700	760	820	910	960	1710	1948	2185	2542	2690
Gain (dB)	-1	-0.5	-1	-1.2	-2	-1.7	-0.6	1.3	2.3	1.9

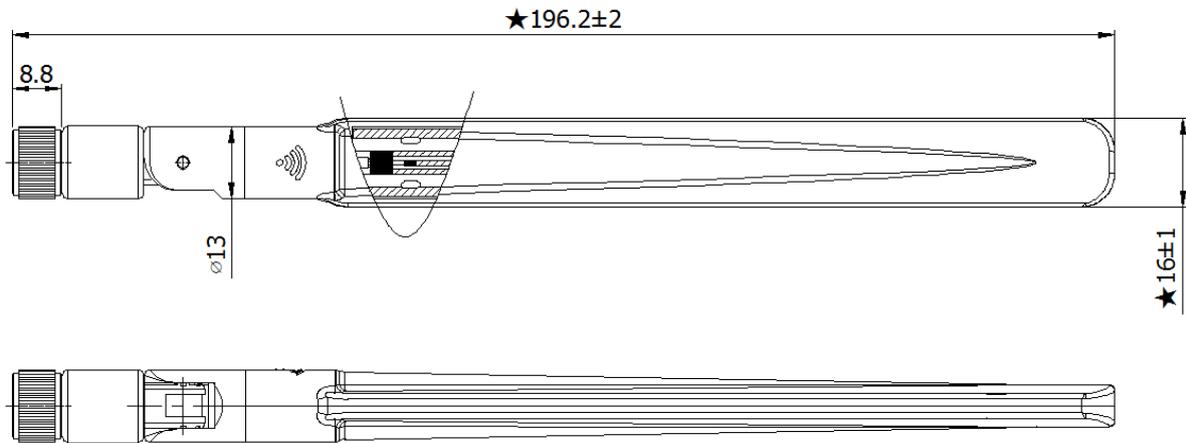
4.5. Radiation Patterns







5 Product Size



ROHS

