

Antenna

YGL001AA Datasheet

Antenna Services

Version: 1.1

Date: 2020-12-17

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.

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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 (MHz)	700–960/1710–2690
Input Impedance (Ω)	50
VSWR	≤ 5.0
Gain (dBi)	≤ 3
Polarization Type	Linear

Mechanical Specifications

Antenna Size (mm)	196.2 × 16 × 13
Casing	ABS
Radiator	Cuprum
Connect Type	SMA (Male pin with internal thread)
Working Temperature (°C)	-30 to +65
Radome Color	White

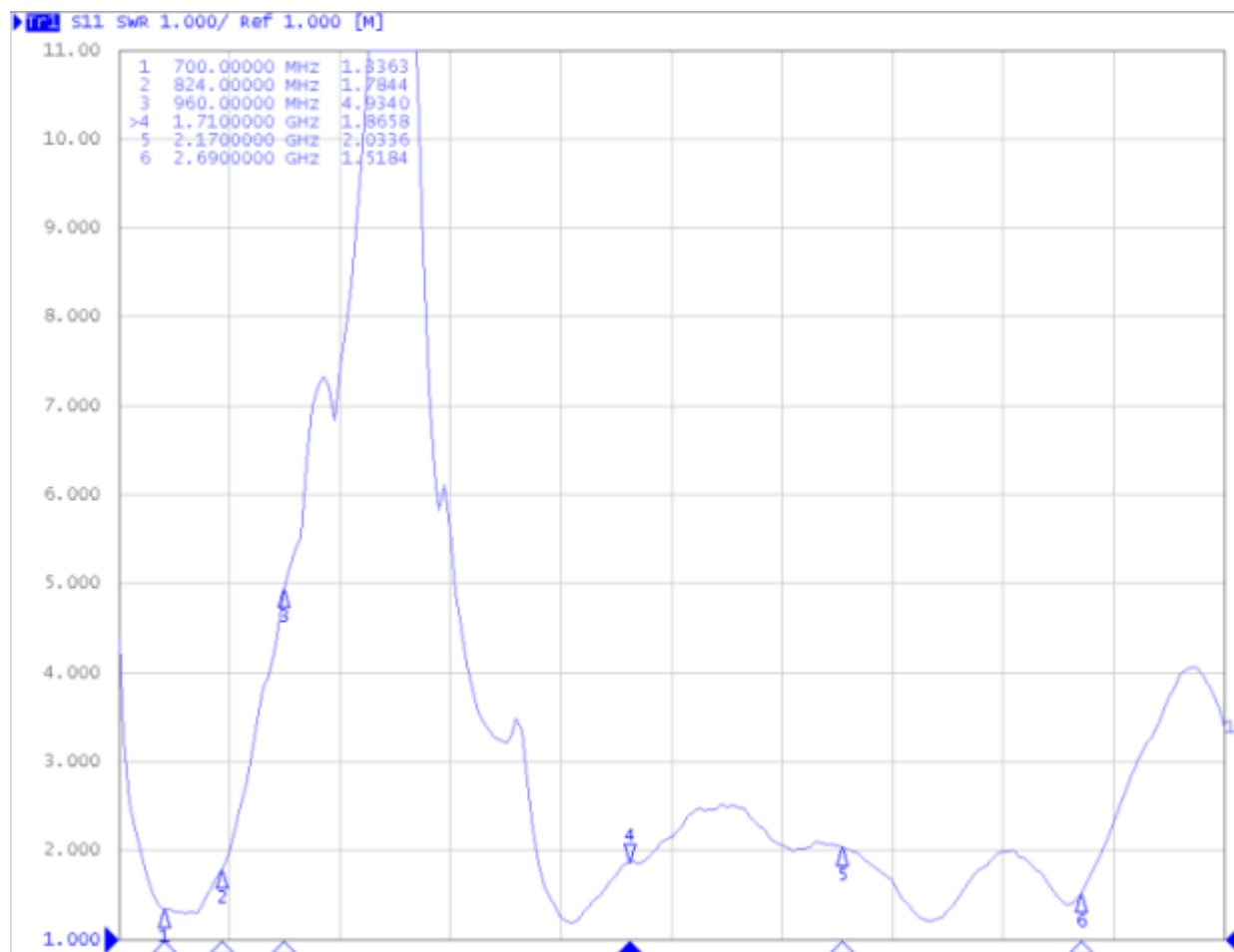
4 Overall Performance

4.1. Test Environment

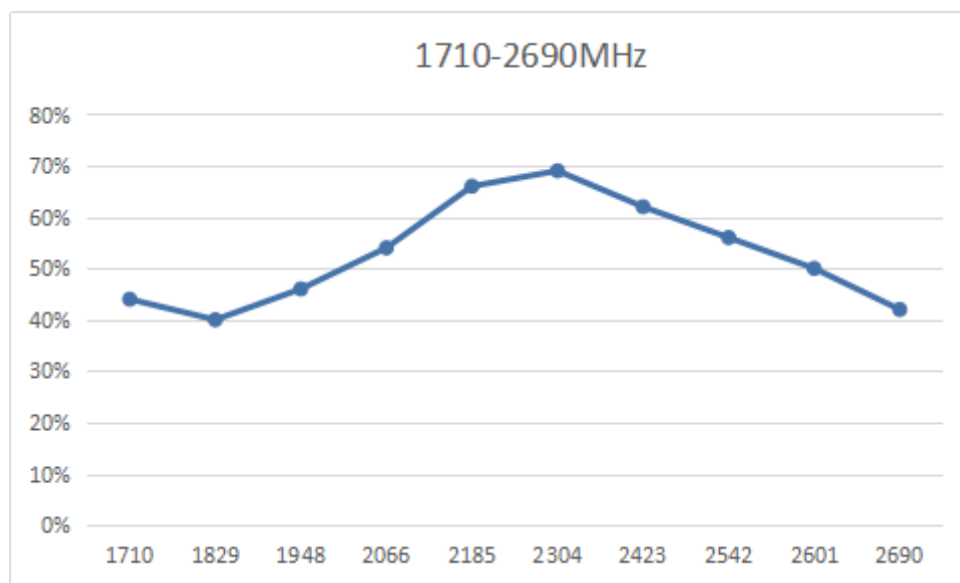
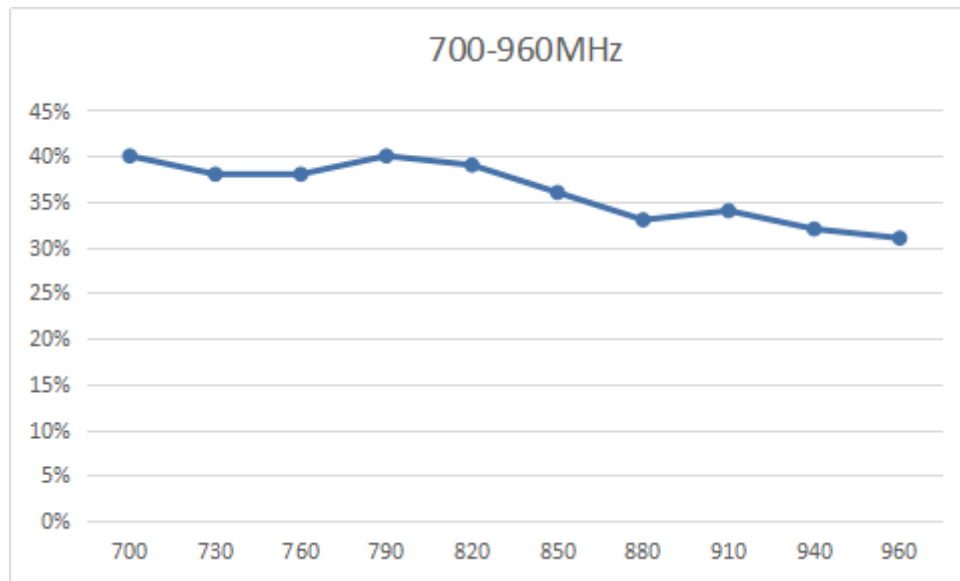
- KEYSIGHT VNA Network Analyzer E5063A, 100 kHz – 6.5 GHz
- RayZone® 2800 Chamber 5G (FR1) SISO/MIMO, 400 MHz – 6.0 GHz



4.2. VSWR

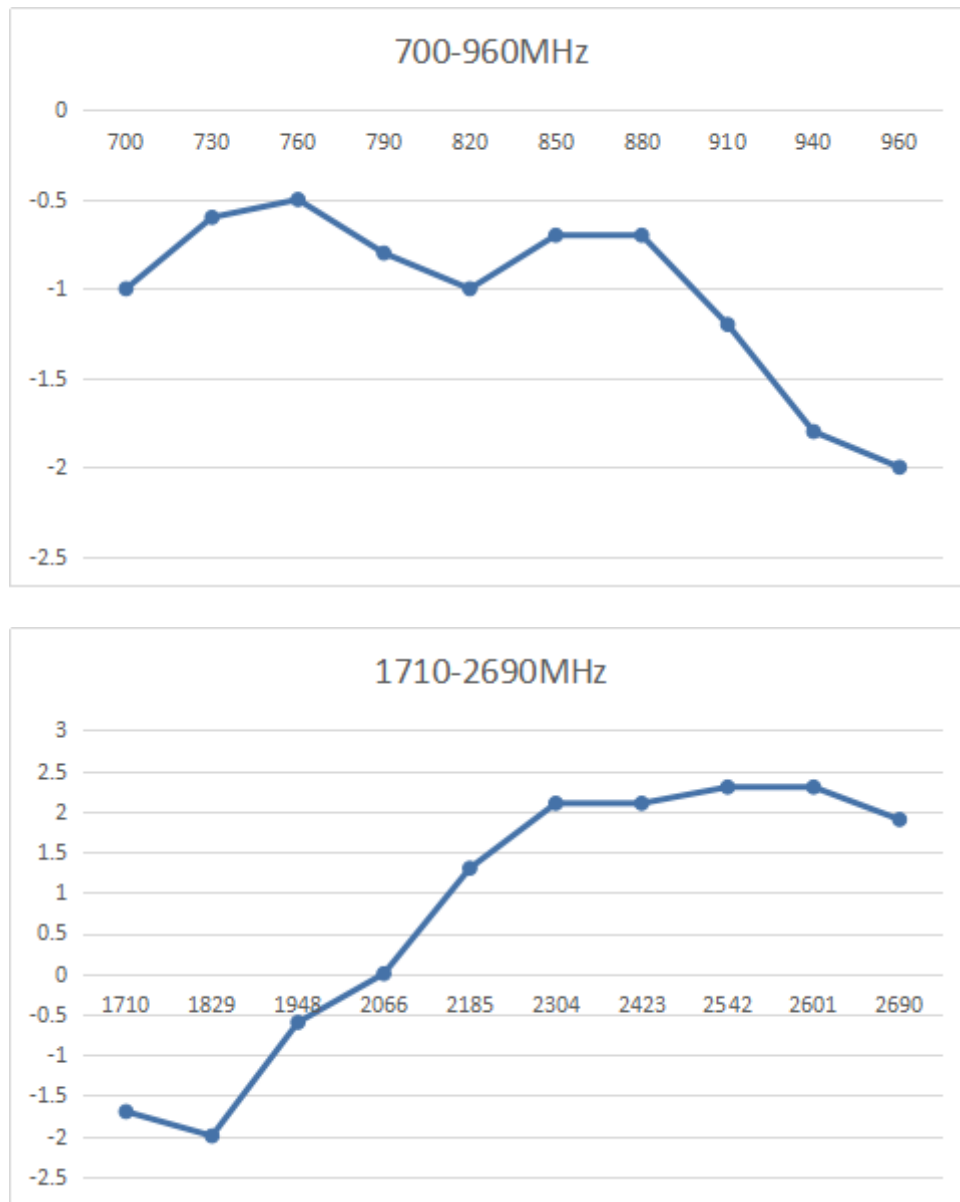


4.3. Efficiency



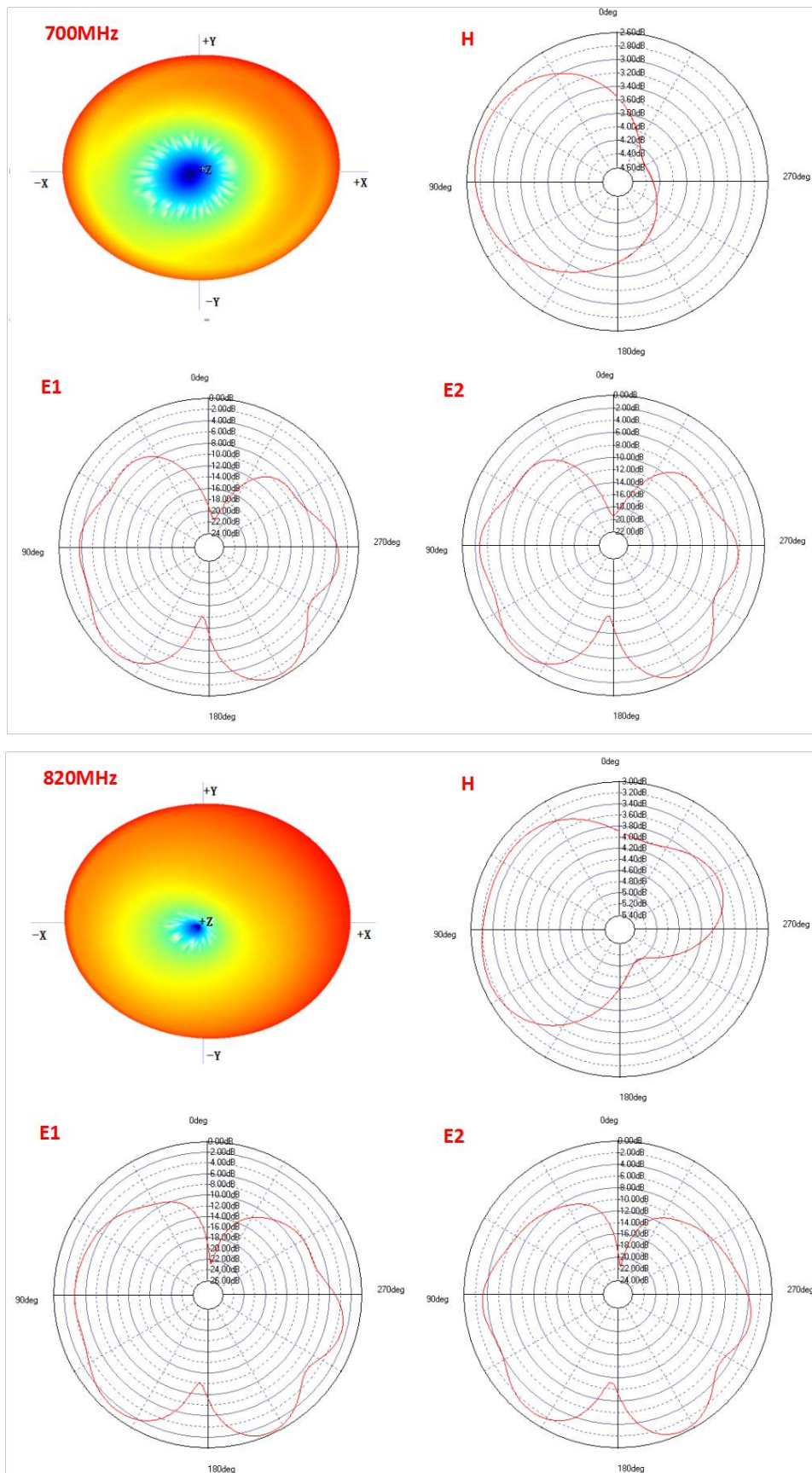
Frequency (MHz)	700	760	820	910	960	1710	1948	2185	2542	2690
Efficiency	40%	38%	39%	34%	31%	44%	46%	66%	56%	42%

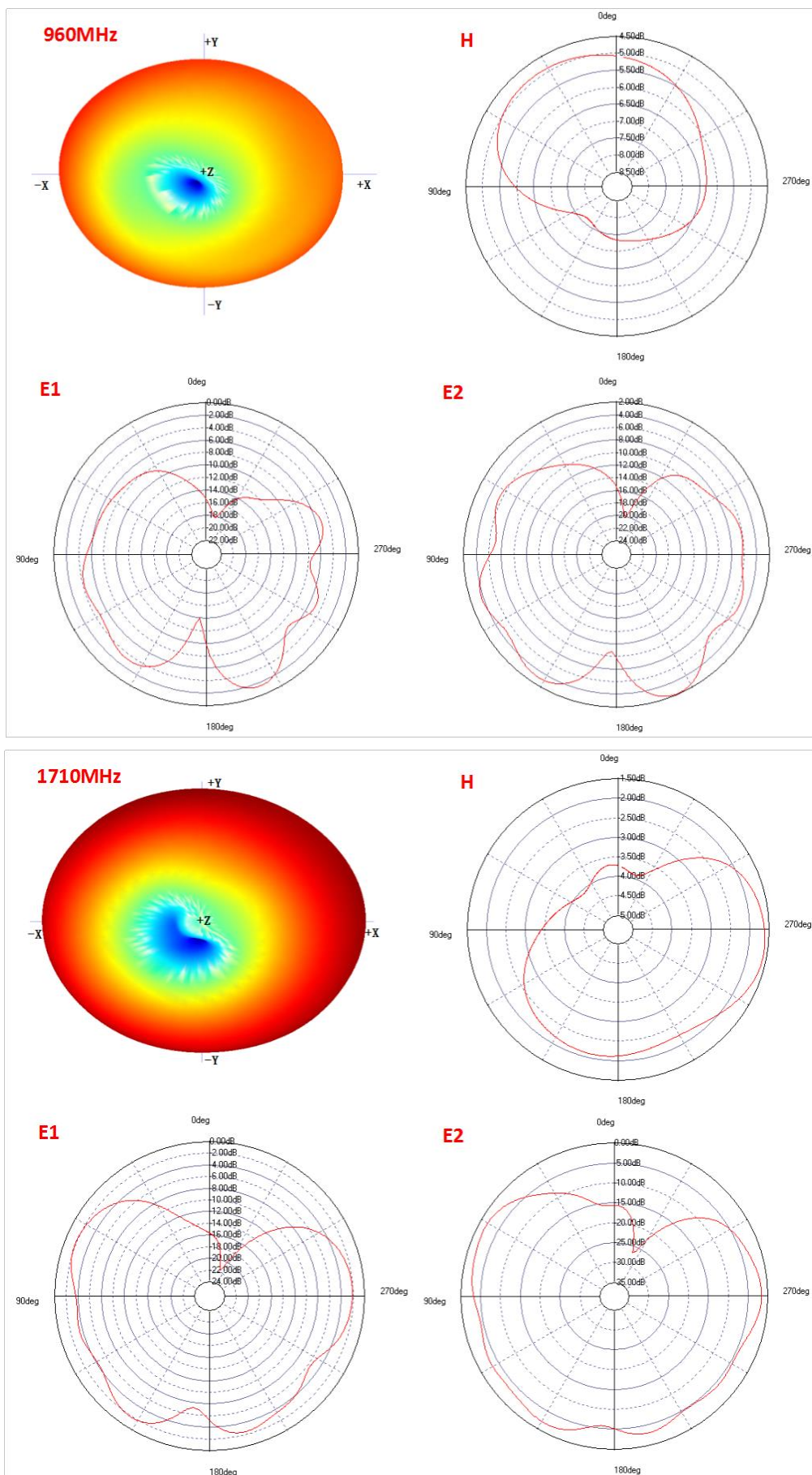
4.4. Gain

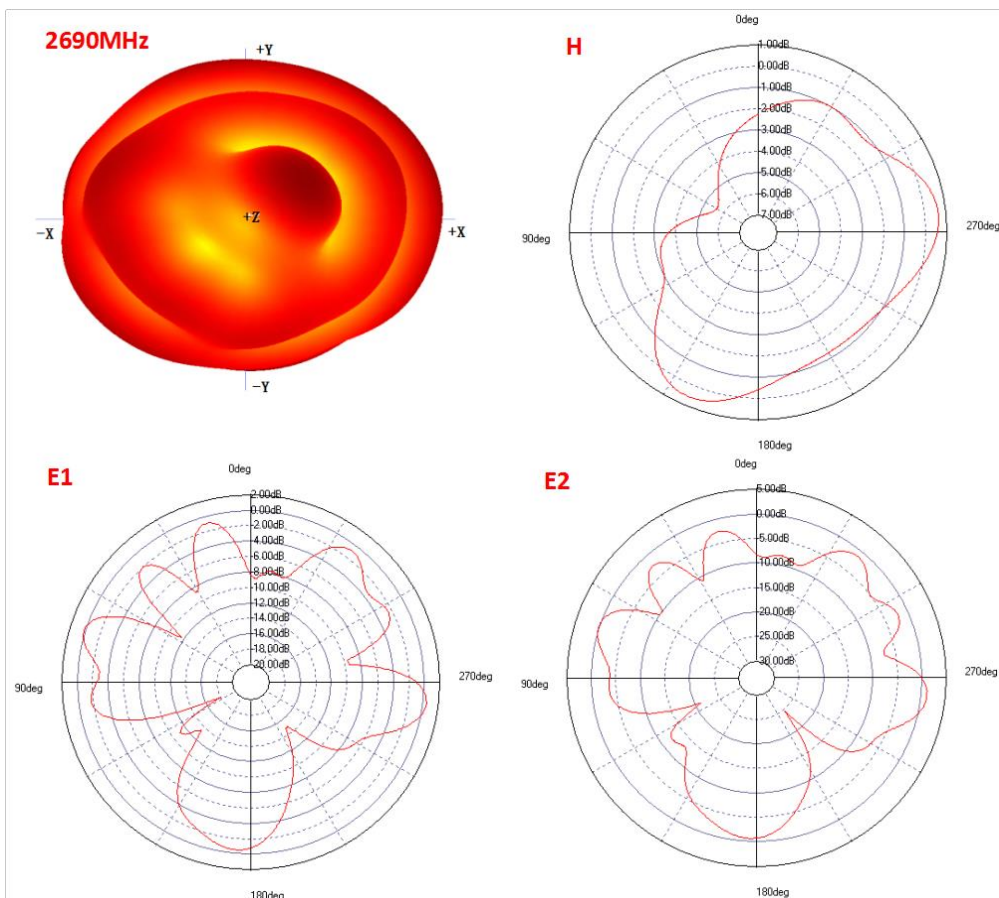
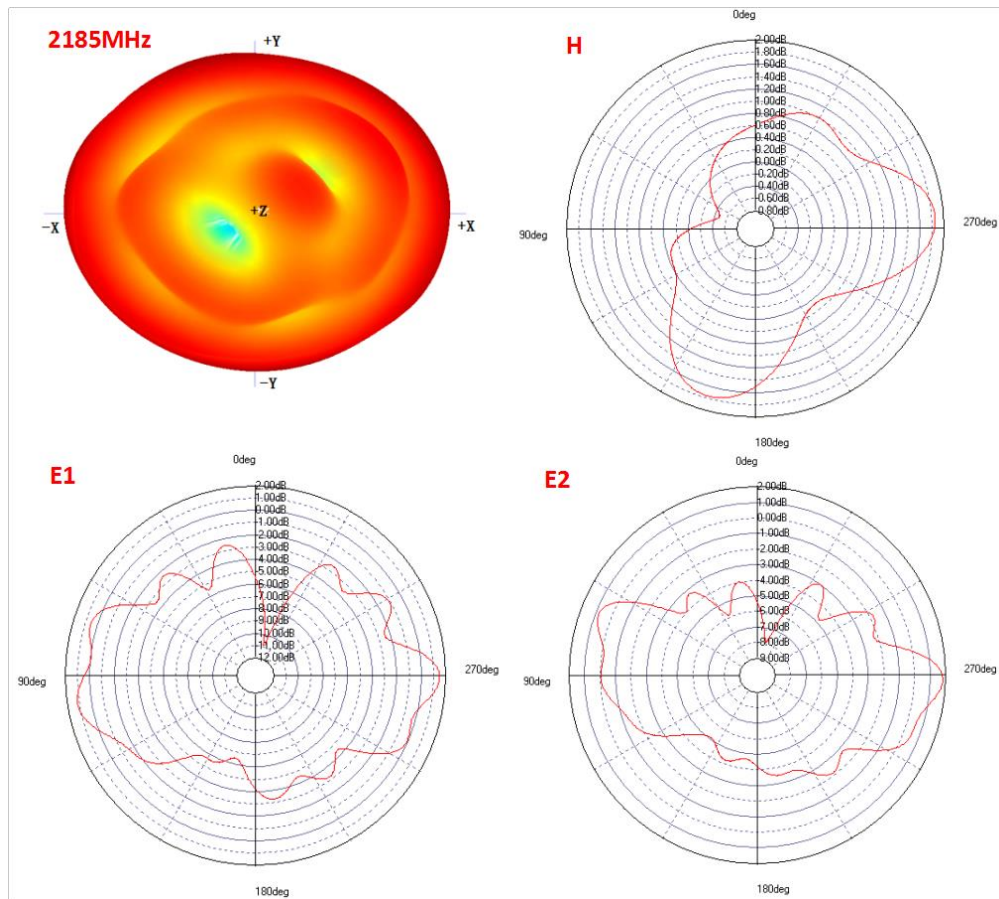


Frequency (MHz)	700	760	820	910	960	1710	1948	2185	2542	2690
Gain (dB)	-1	-0.5	-1	-1.2	-2	-1.7	-0.6	1.3	2.3	1.9

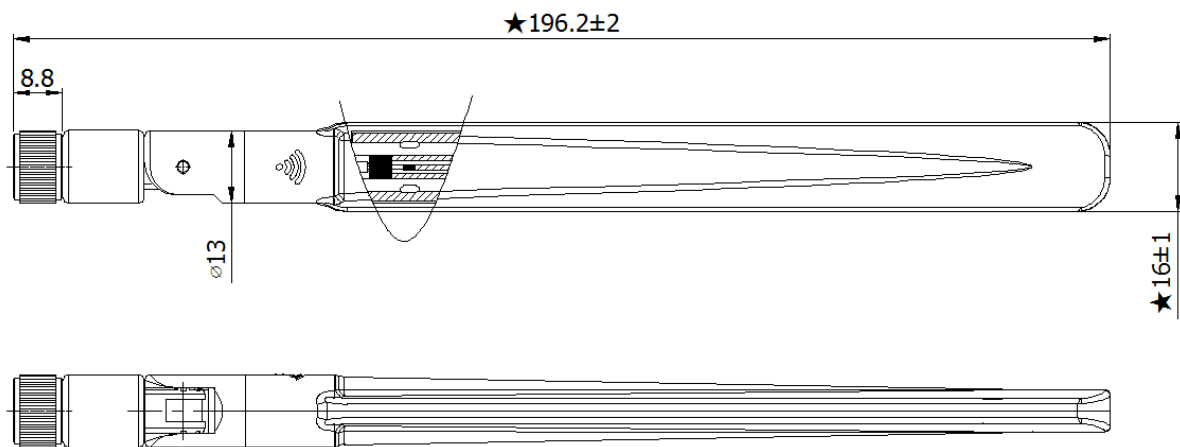
4.5. Radiation Patterns







5 Product Size



ROHS

