

Antenna

YE0009AA Datasheet

Antenna Services

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Status: Released



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About the Document

Revision History

Version	Date	Author	Note
1.0	2020-06-10	Kenny YIN	Initial
1.1	2021-01-12	Kenny YIN	Updated images in Efficiency and Gain (Chapter 4).
1.2	2021-01-27	Kenny YIN	Added IP rating description.

Contents

About the Document	3
Contents	4
1 Product Description.....	5
2 Product Features	5
3 Product Specifications	6
4 Overall Performance.....	7
4.1. Test Environment	7
4.2. VSWR.....	8
4.3. Efficiency	9
4.4. Gain.....	10
4.5. Radiation Patterns.....	11
5 Product Size	17

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	824–2700 MHz
Input Impedence	50 Ω
VSWR	≤ 3.0
Gain	≤ 3 dBi
Polarization Type	Linear

Mechanical Specifications

Antenna Size	190 mm x 16 mm
Casing	ABS
Connector Type	SMA Male (center pin)
Working Temperature	-20 °C to +80 °C
Radome Color	Black
IP rating	IP55

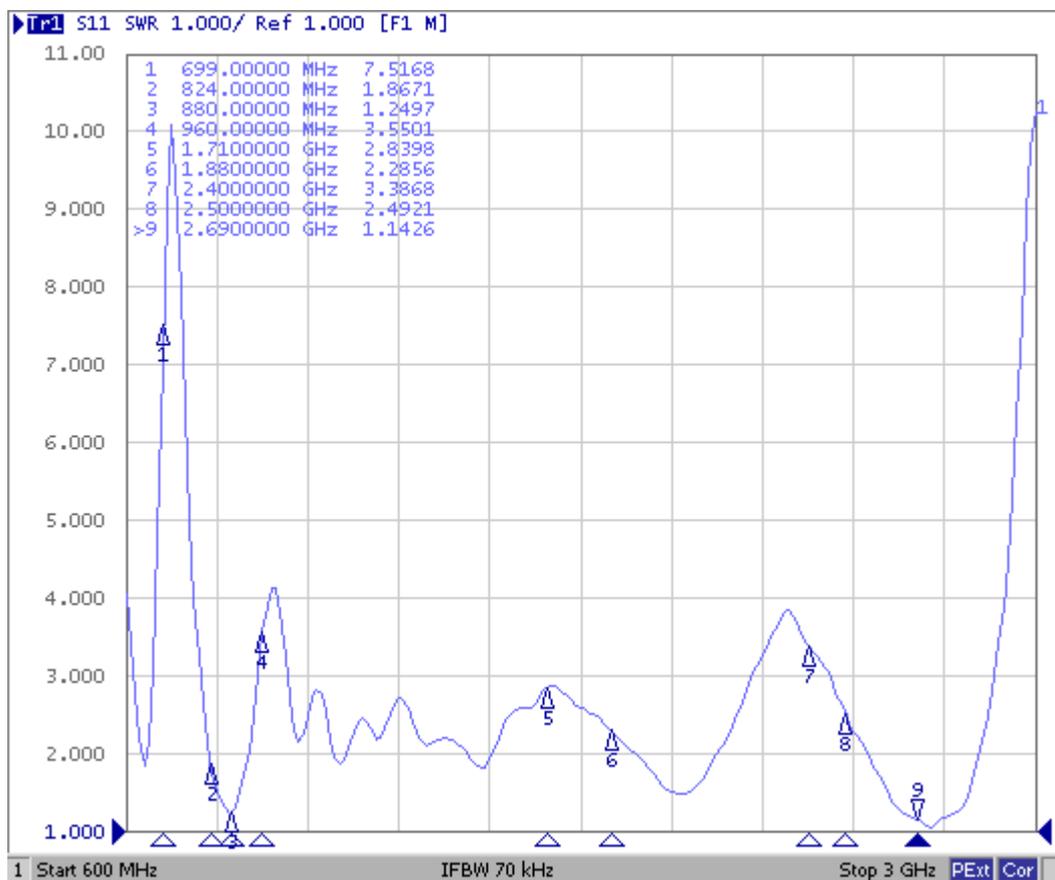
4 Overall Performance

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.

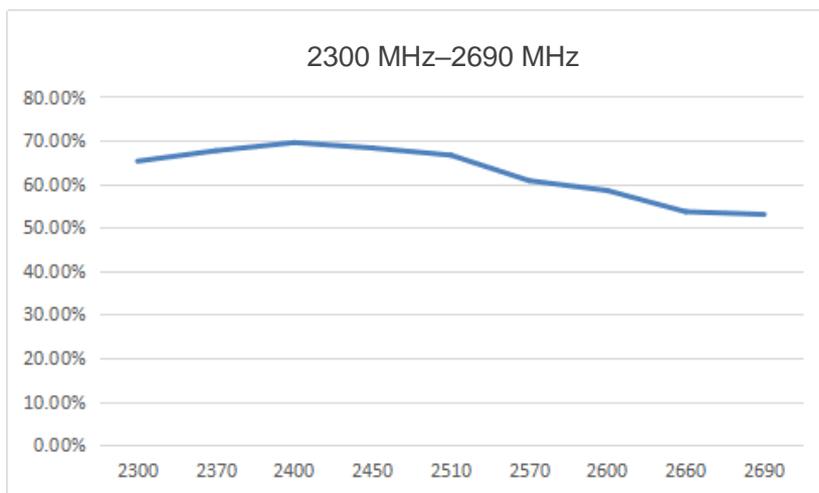
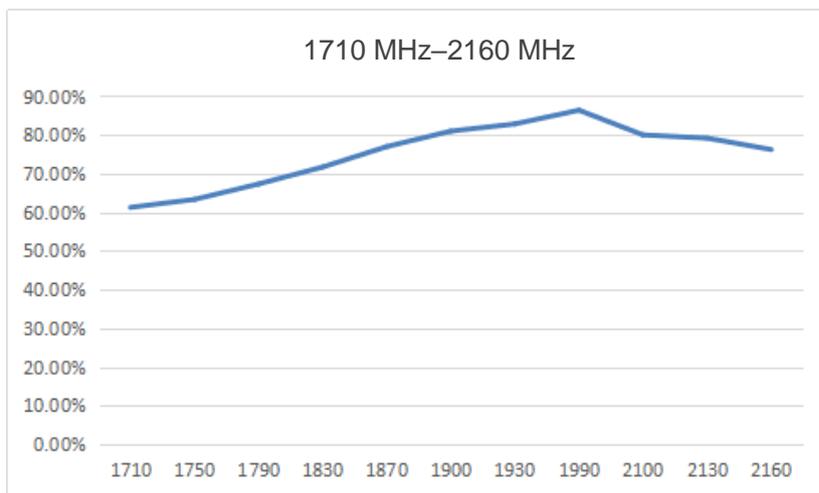
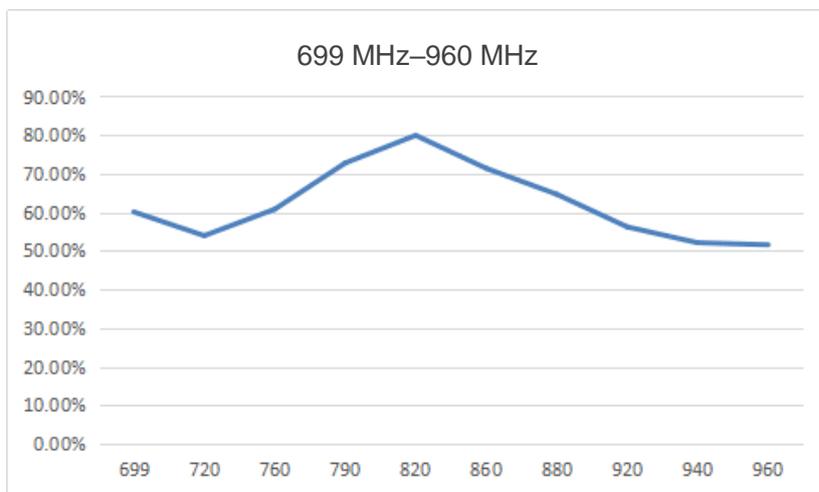


4.2. VSWR



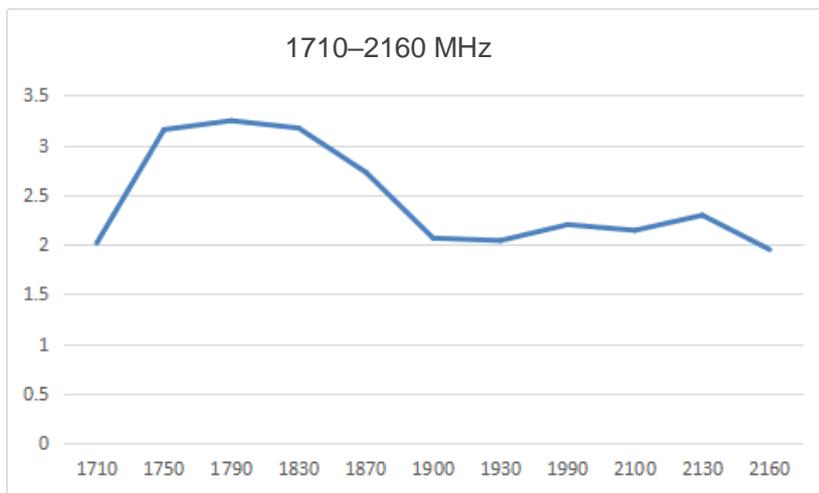
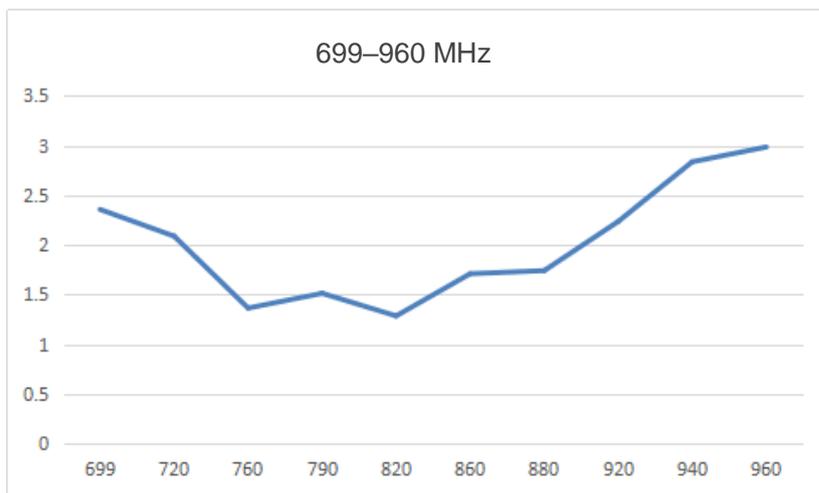
Frequency (MHz)	824	880	960	1710	1880	2400	2500	2690
VSWR	1.8	1.2	3.5	2.8	2.2	3.3	2.4	1.1

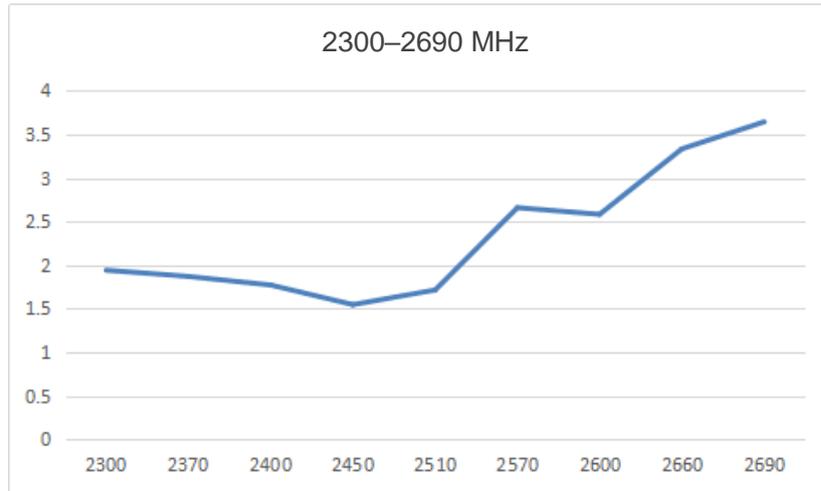
4.3. Efficiency



Frequency (MHz)	824	880	960	1710	1880	2400	2500	2690
Efficiency (%)	79%	64%	51%	61%	77%	69%	66%	53%

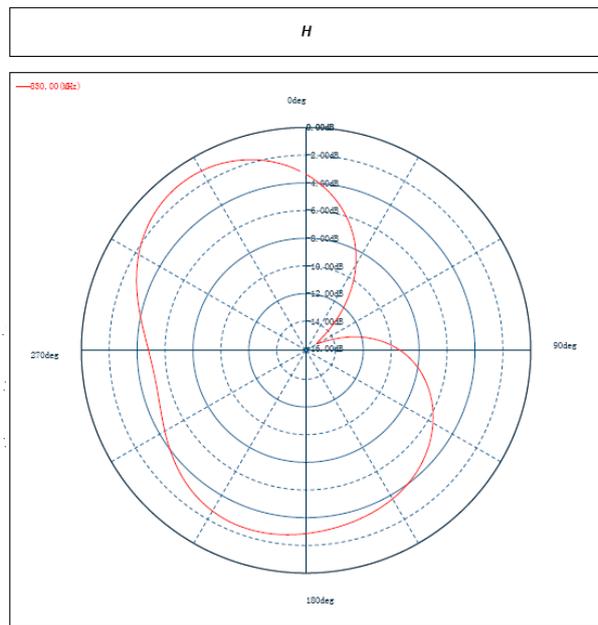
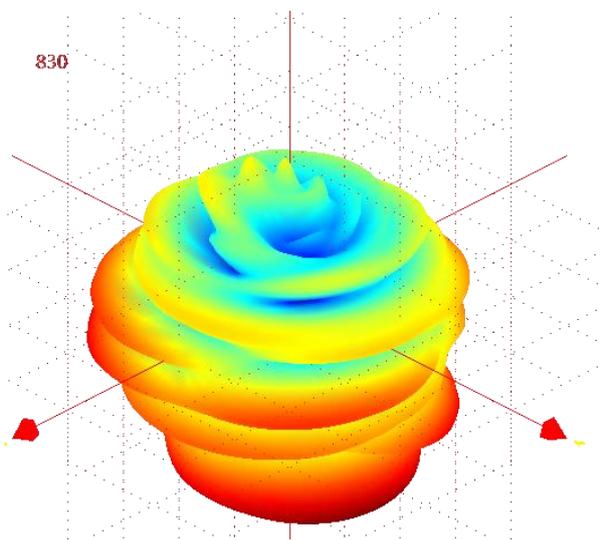
4.4. Gain

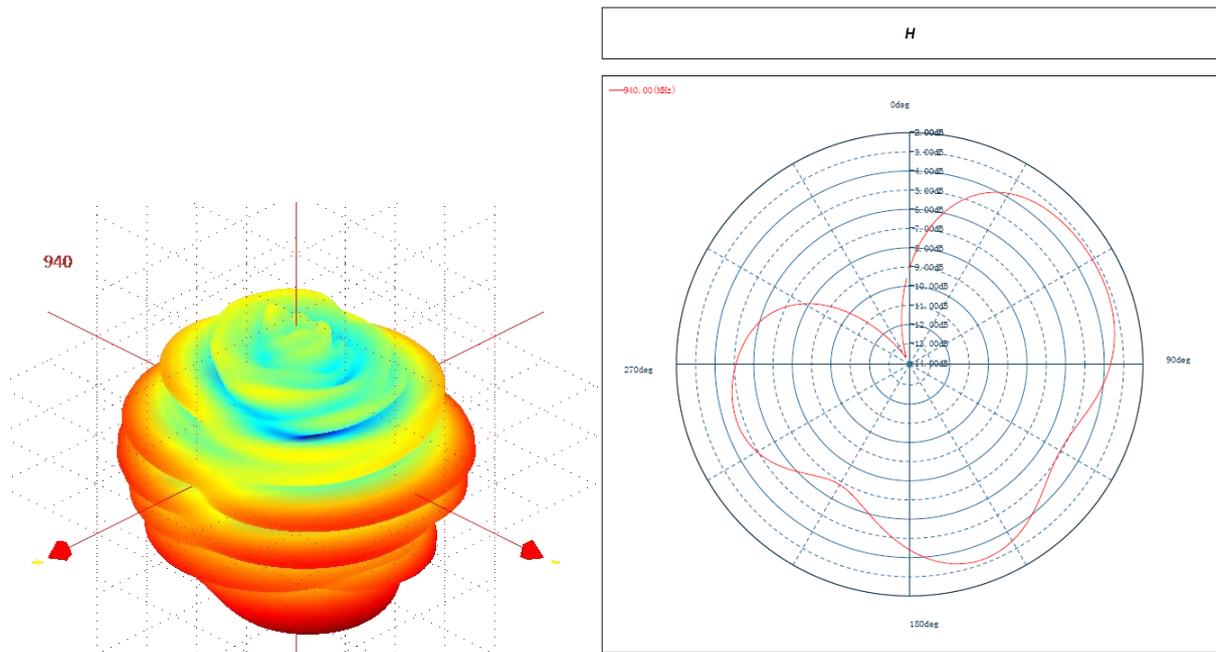
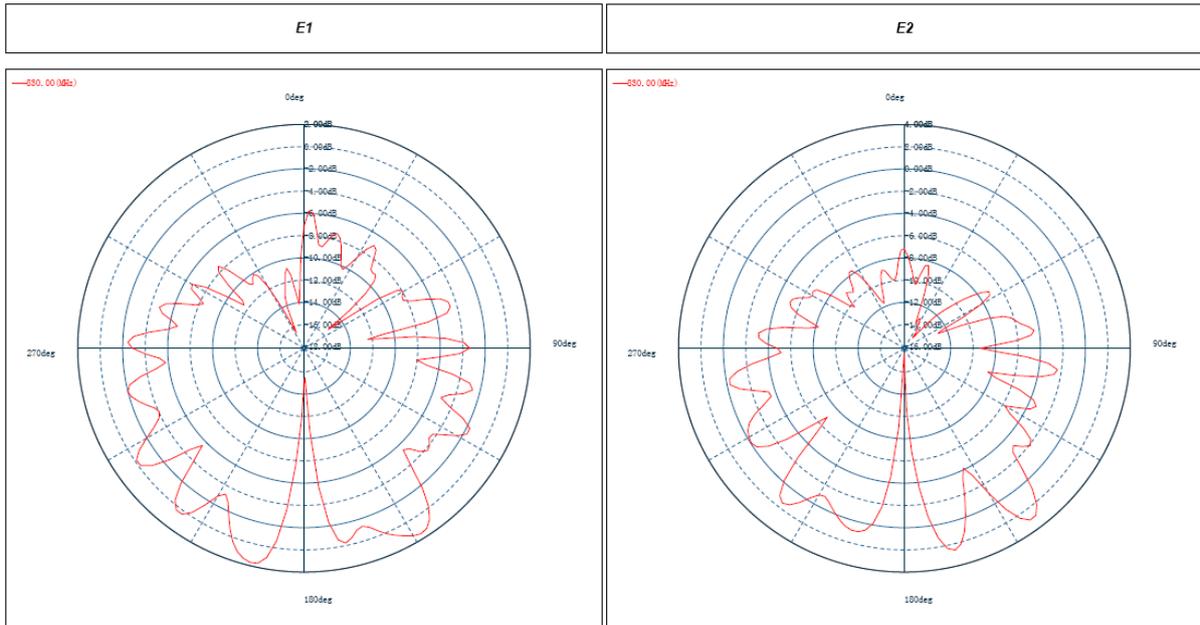




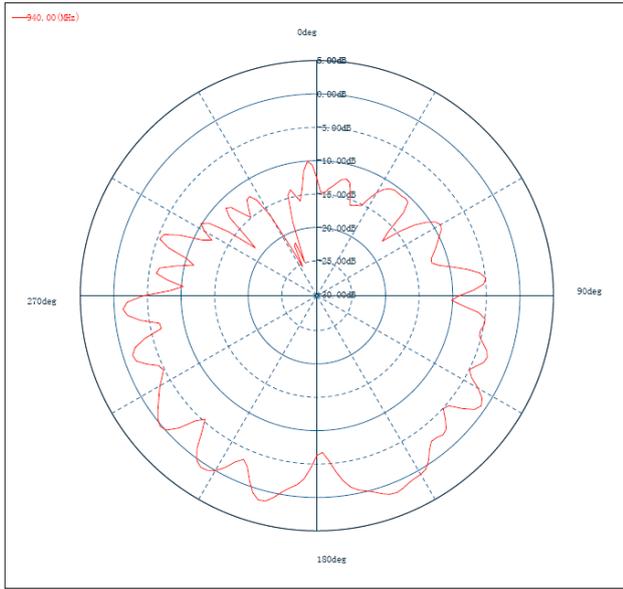
Frequency (MHz)	824	880	960	1710	1880	2400	2500	2690
Gain	1.2	1.7	2.9	2.0	2.7	1.7	1.7	3.6

4.5. Radiation Patterns

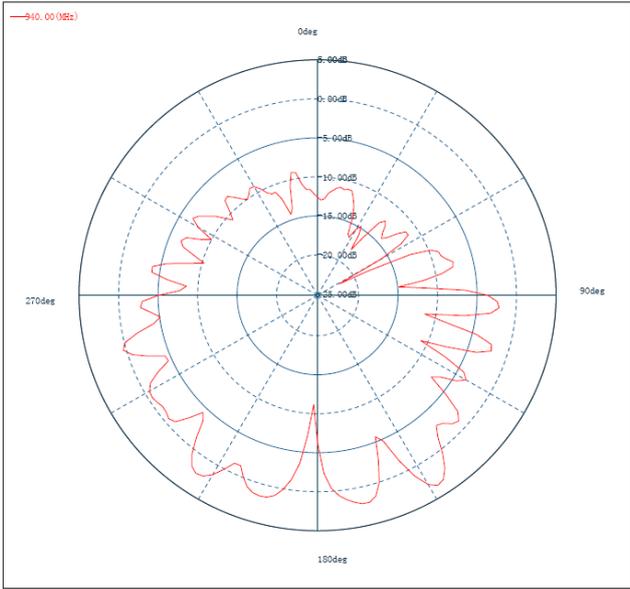




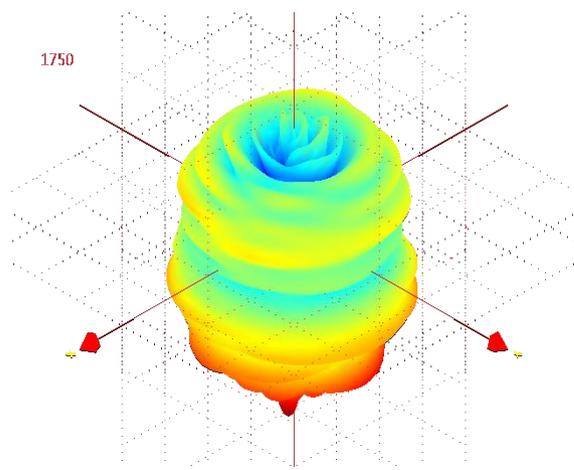
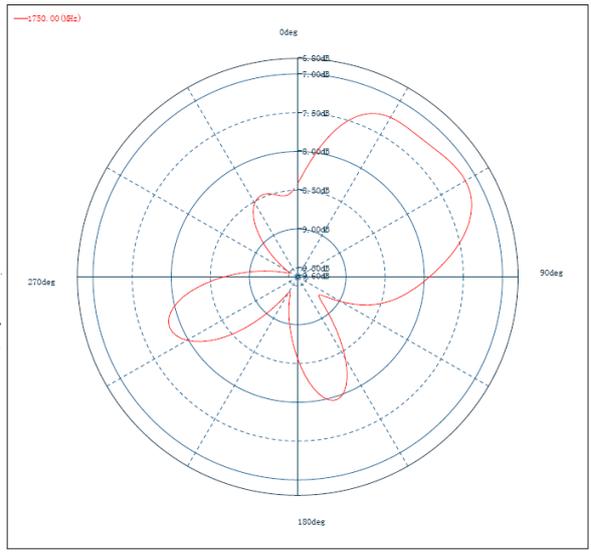
E1

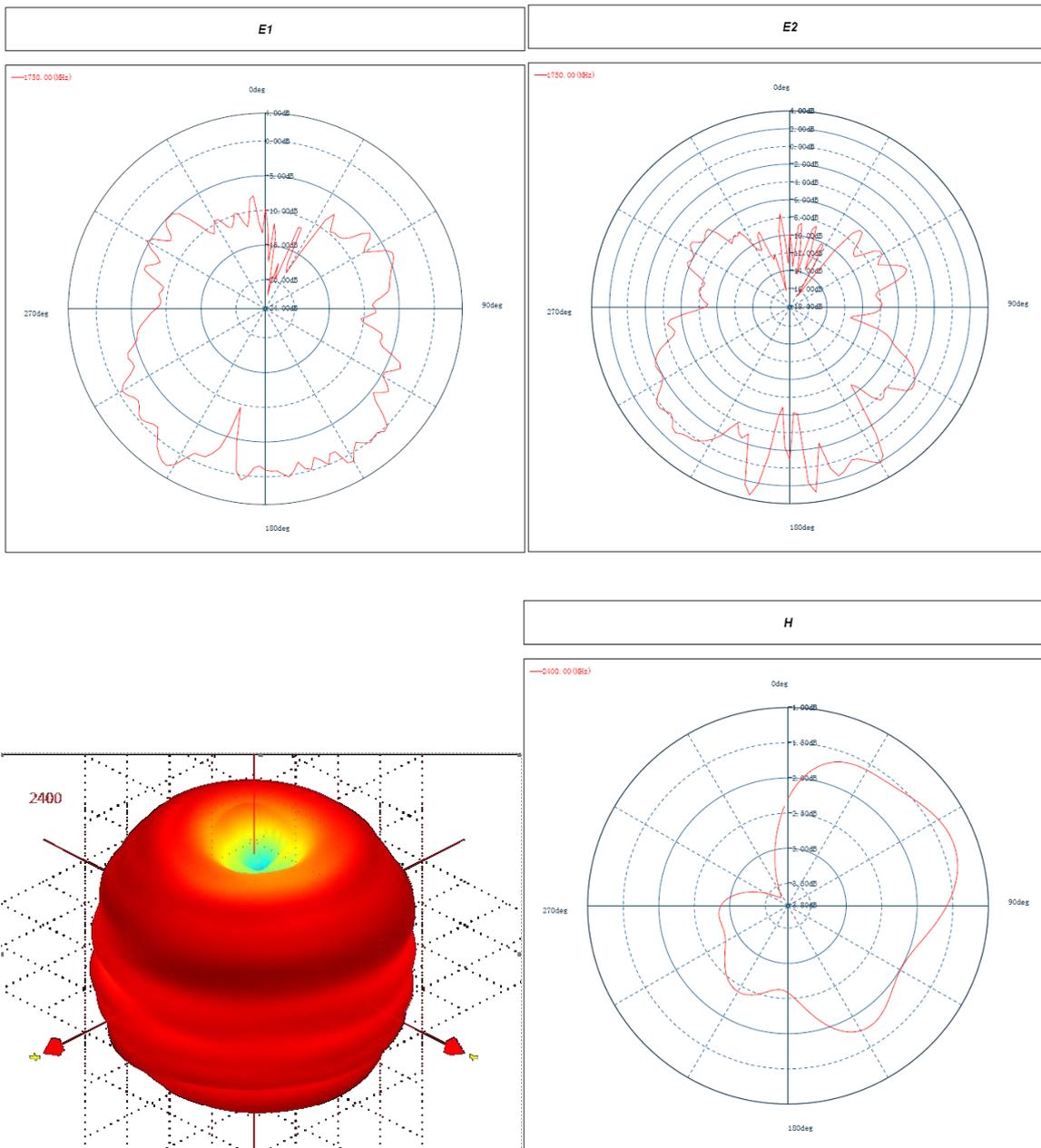


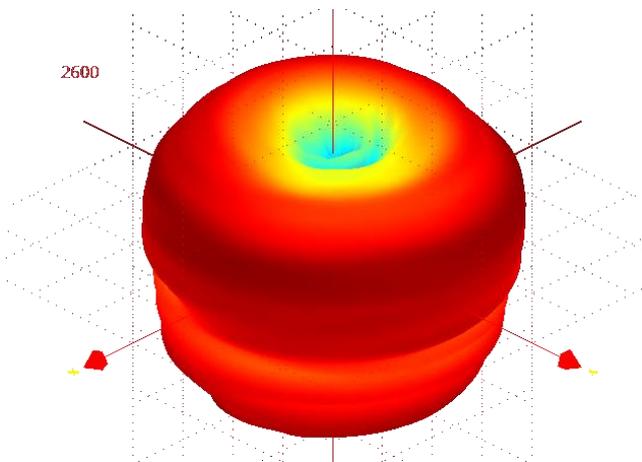
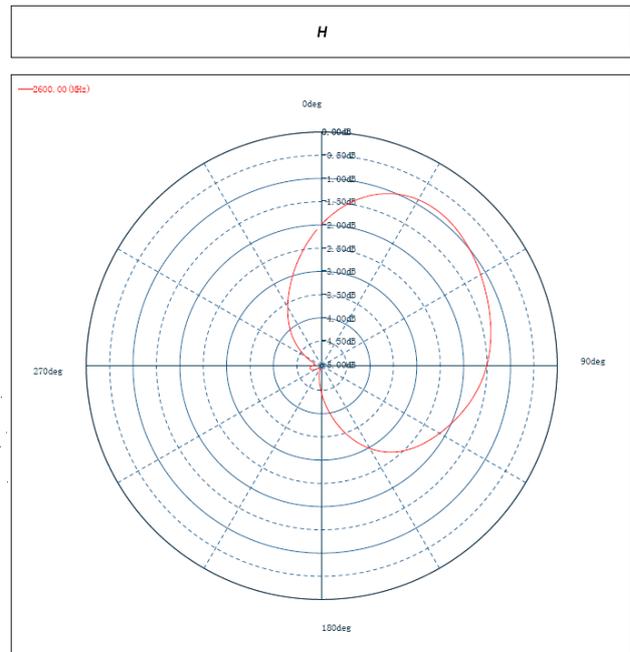
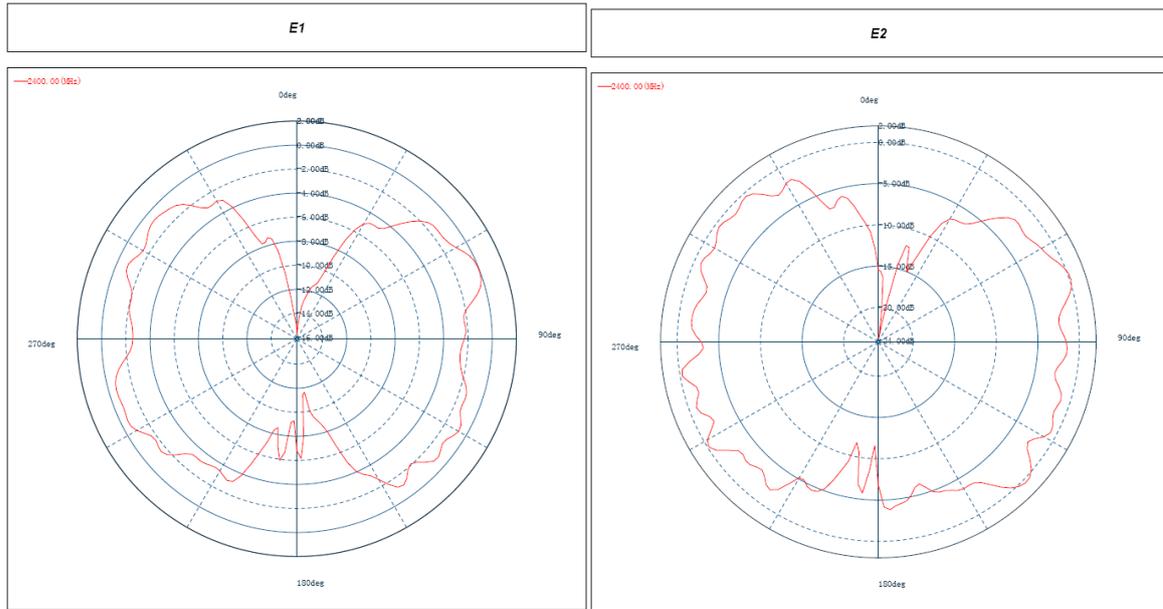
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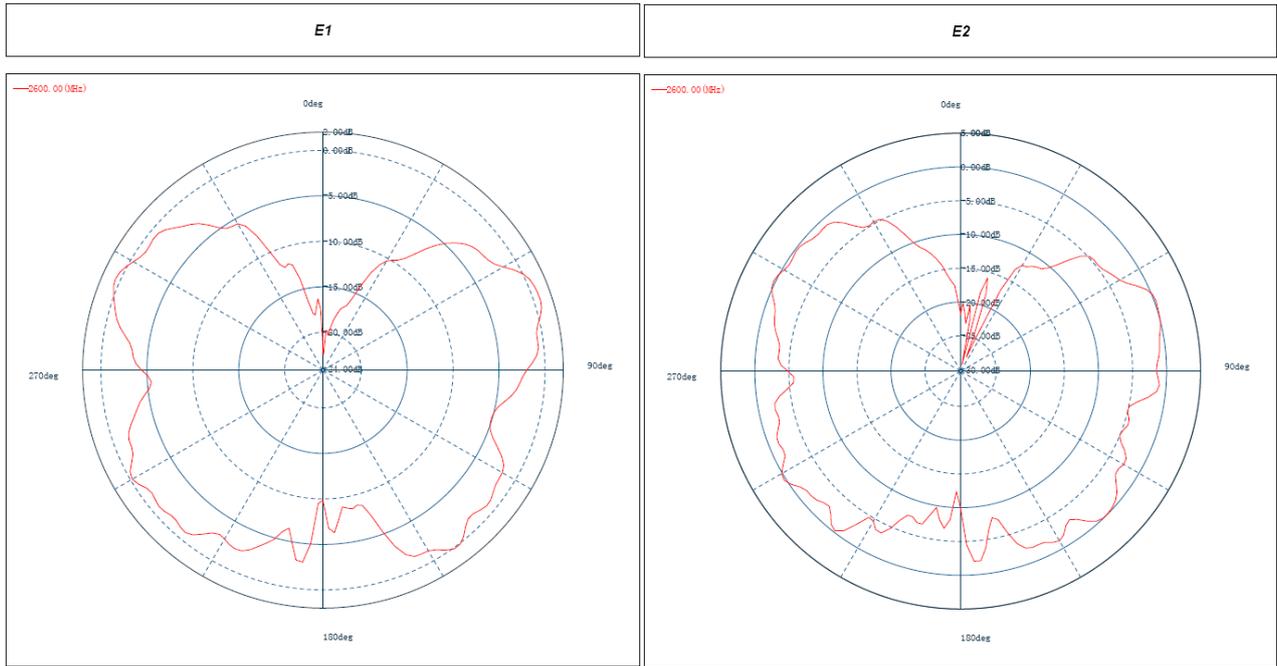


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5 Product Size

