

Antenna

YE0028AA Datasheet

Antenna Services

Version: 1.1

Date: 2020-12-16

Status: Released



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About the Document

Revision History

Version	Date	Author	Note
-	2020-10-15	Kenny YIN	Creation of the document
1.0	2020-10-15	Kenny YIN	First official release
1.1	2020-12-16	Kenny YIN	Update picture of product

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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 & LTE
- High efficiency
- Excellent performance



3 Product Specifications

Passive Electrical Specifications

Frequency Range	700–2700 MHz 3300–5000 MHz
Input Impedence	50 Ω
VSWR	≤ 3.0
Gain	≤ 3.5 dBi
Polarization Type	Linear

Mechanical Specifications

Antenna Size	234 mm × Ø 60 mm, 1.5DS, L = 1500 mm
Casing	ABS
Connect Type	SMA (Male pin with internal thread)
Working Temperature	-20 °C to +70 °C
Radome Color	Black
Fixed mode	Magnet

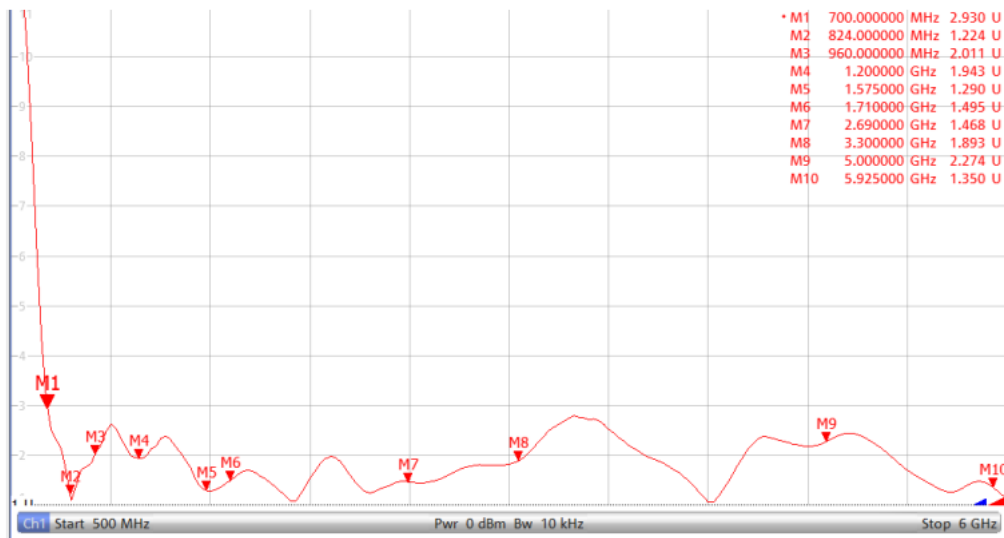
4 Overall Performance

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.

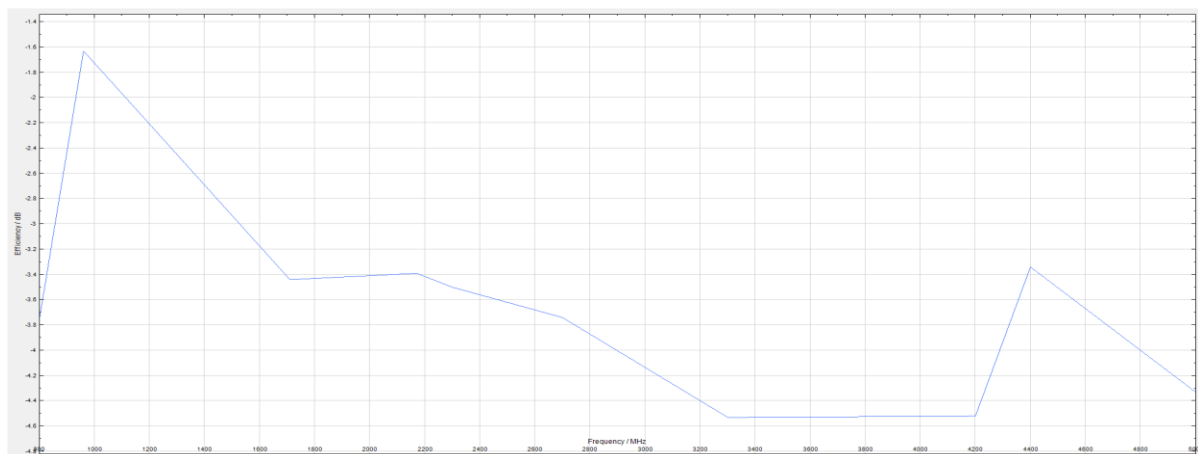


4.2. VSWR



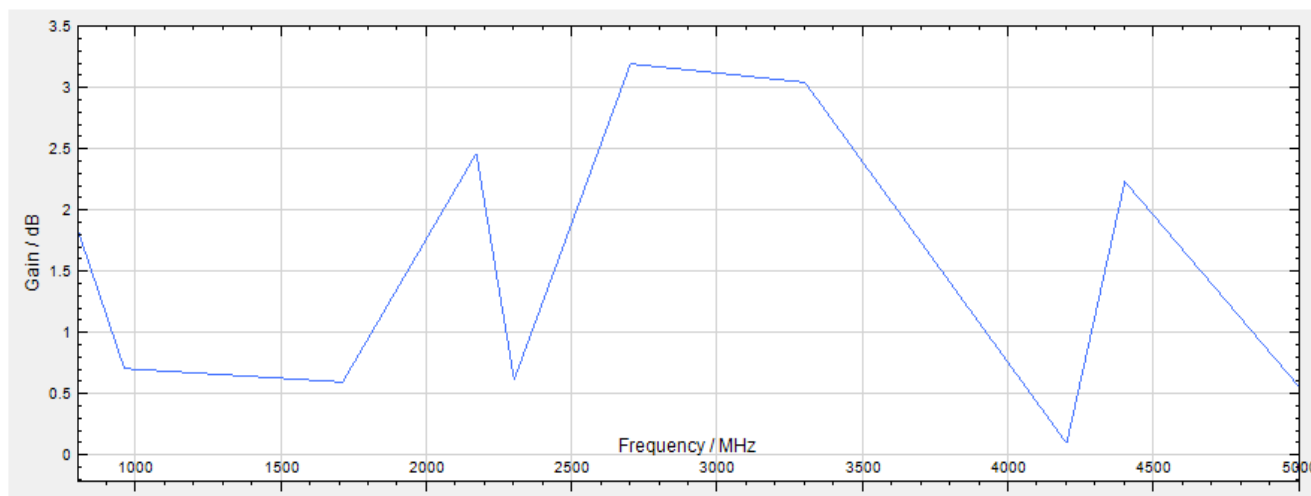
Frequency (MHz)	700	960	1710	2170	2300	2700	3300	5000
VSWR	2.9	2.0	1.495	1.30	1.27	1.47	1.893	2.74

4.3. Efficiency



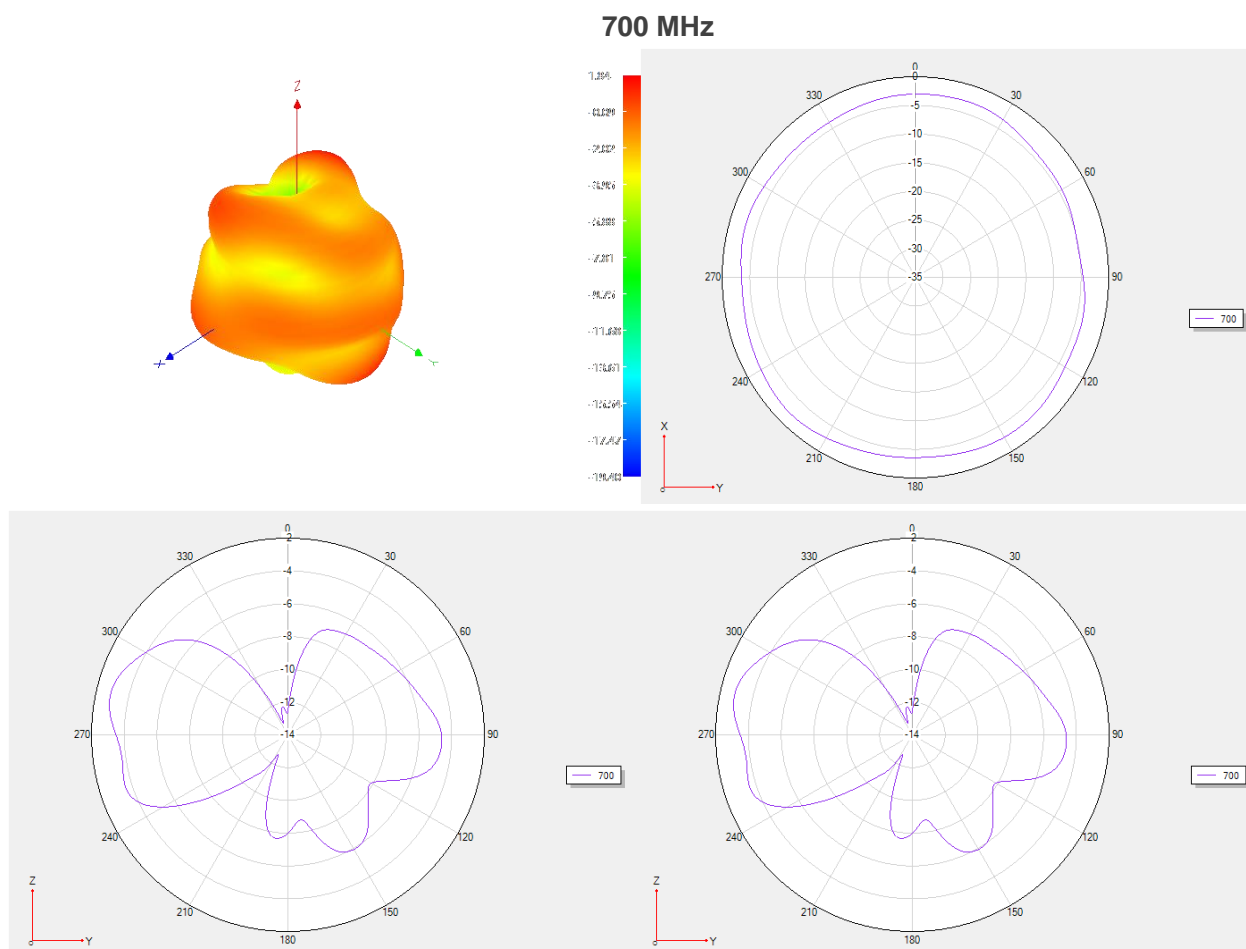
Frequency (MHz)	700	960	1710	2170	2300	2700	3300	4200	4400	5000
Efficiency (%)	42.17	68.71	45.29	45.81	44.67	42.27	35.24	35.32	46.34	36.9

4.4. Gain

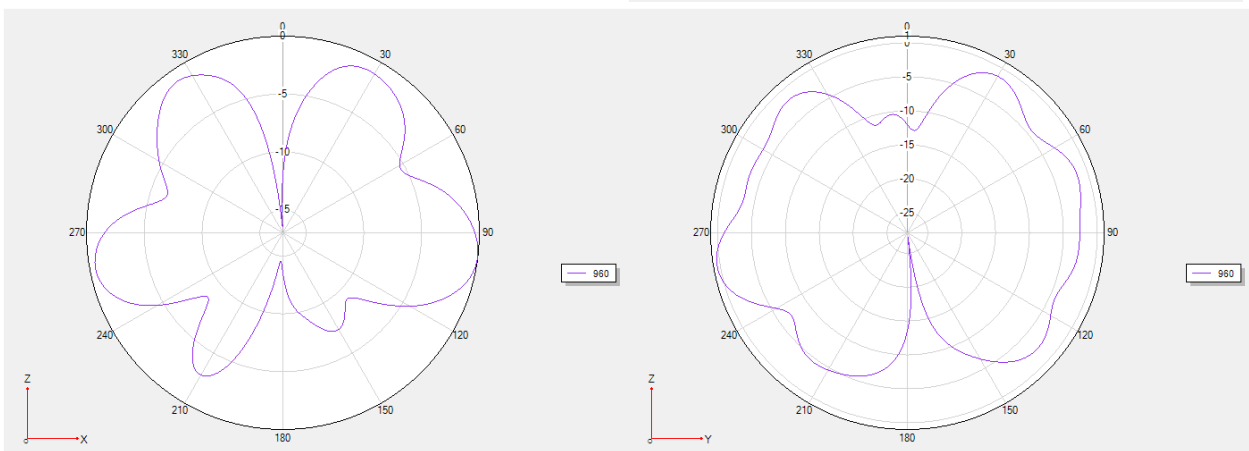
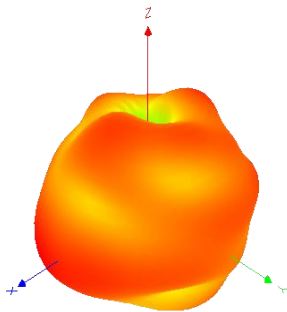


Frequency (MHz)	700	960	1710	2170	2300	2700	3300	4200	4400	5000
Gain (dBi)	1.84	0.71	0.6	2.47	0.62	3.2	3.05	0.1	2.24	0.56

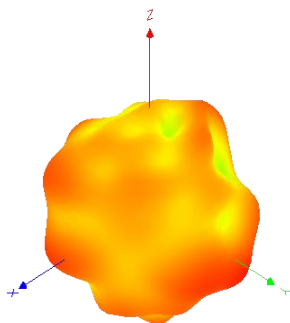
4.5. Radiation Patterns



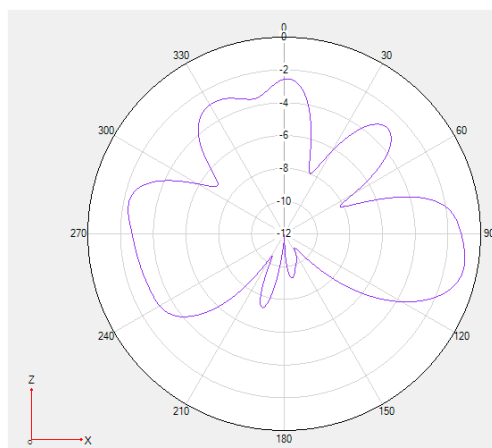
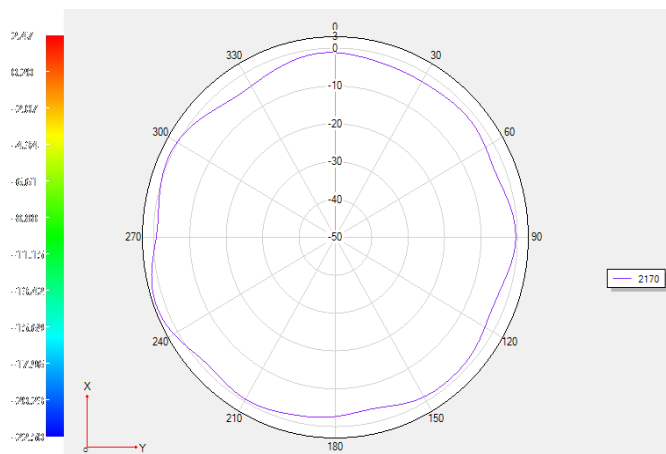
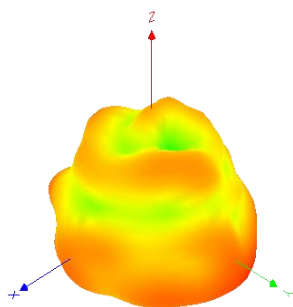
960MHz



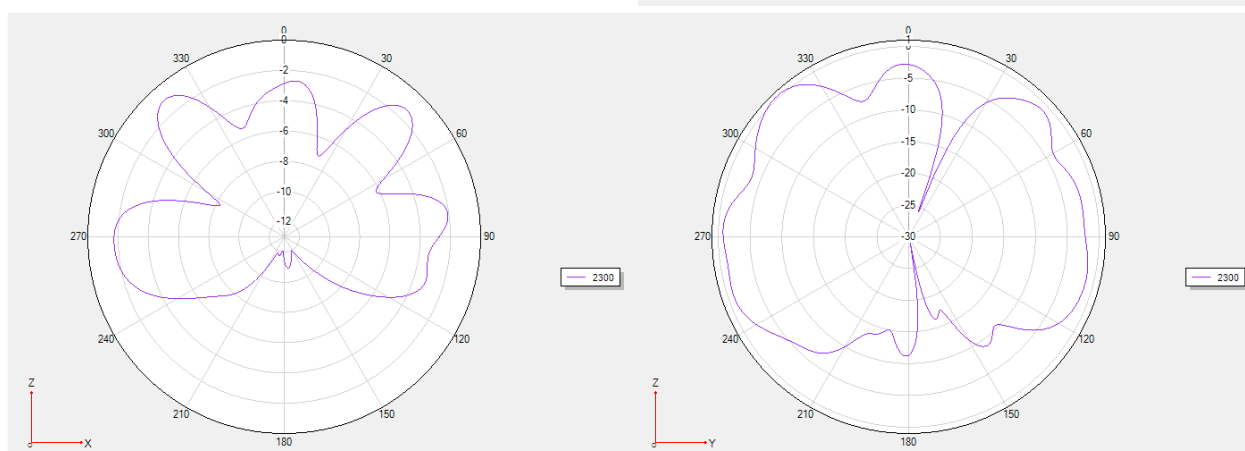
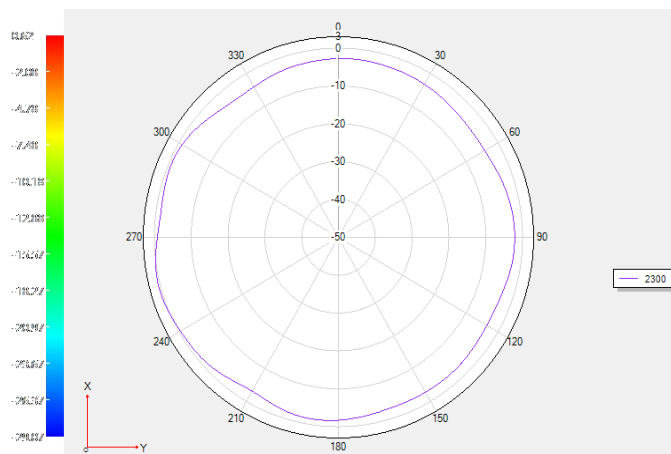
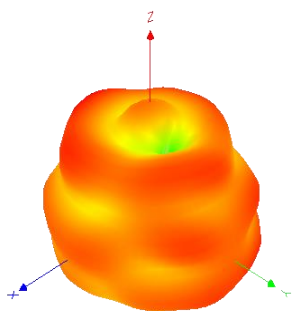
1710 MHz



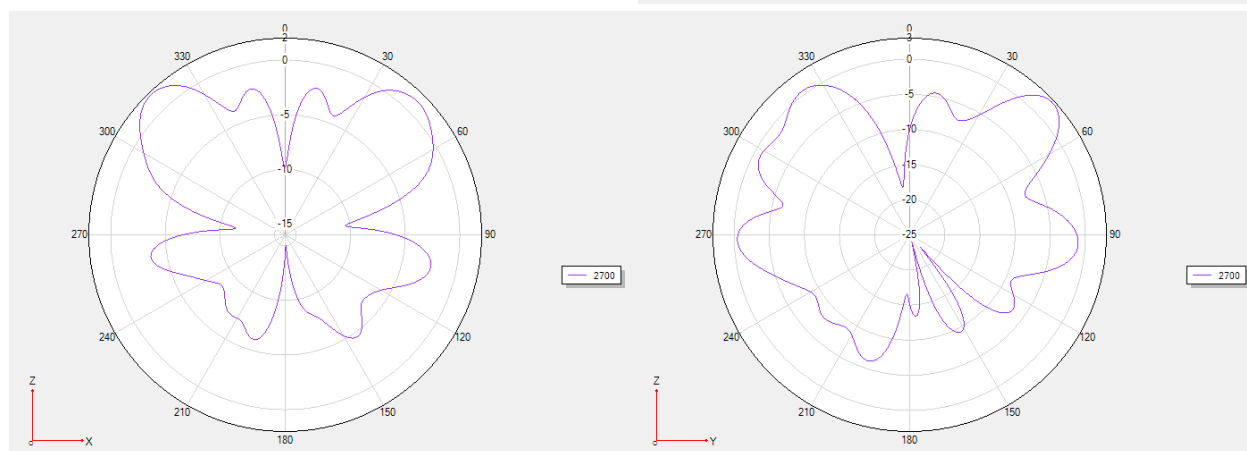
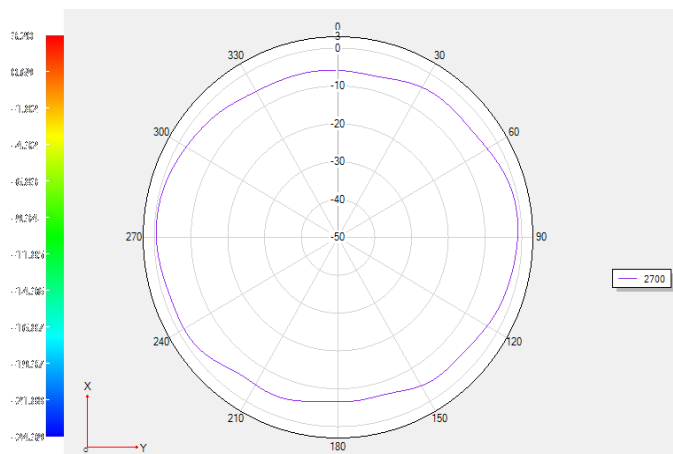
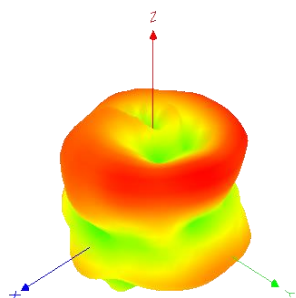
2170 MHz



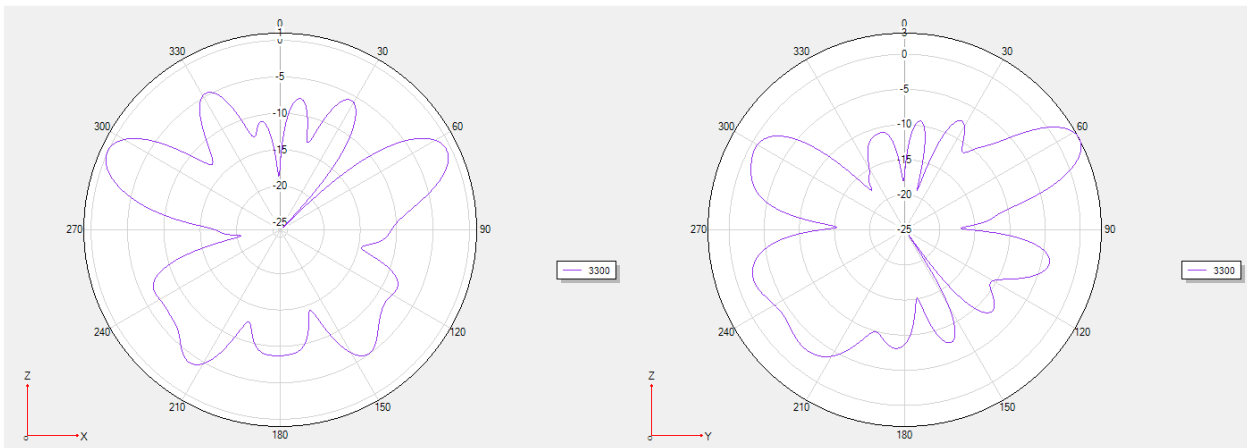
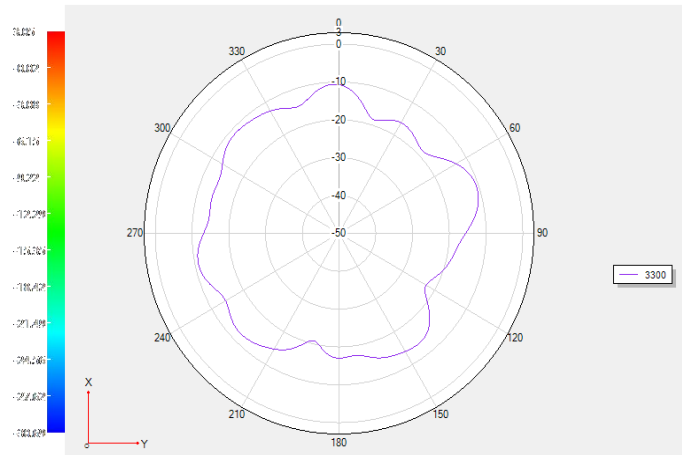
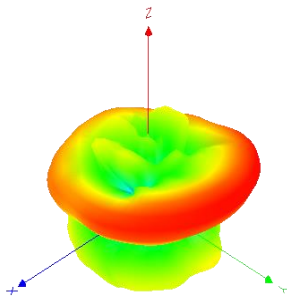
2300 MHz



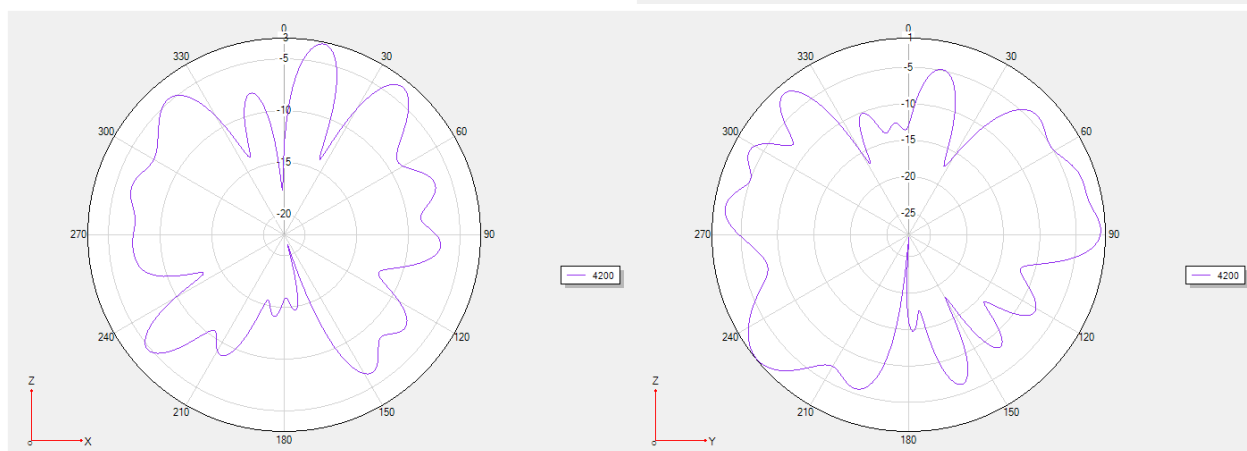
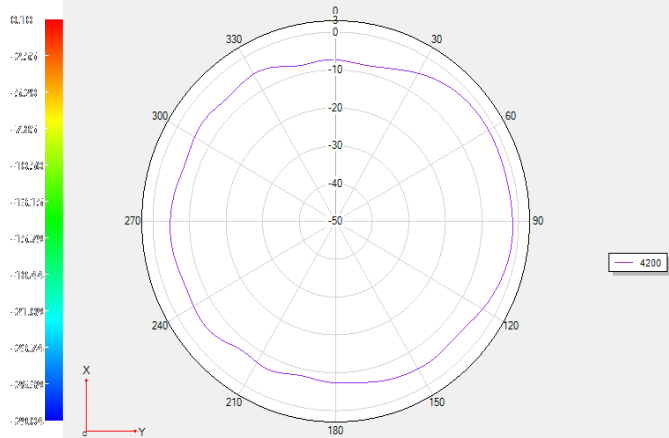
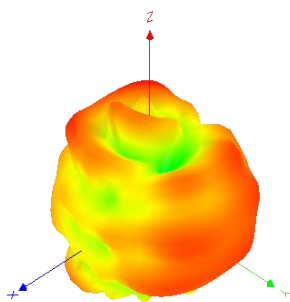
2700 MHz



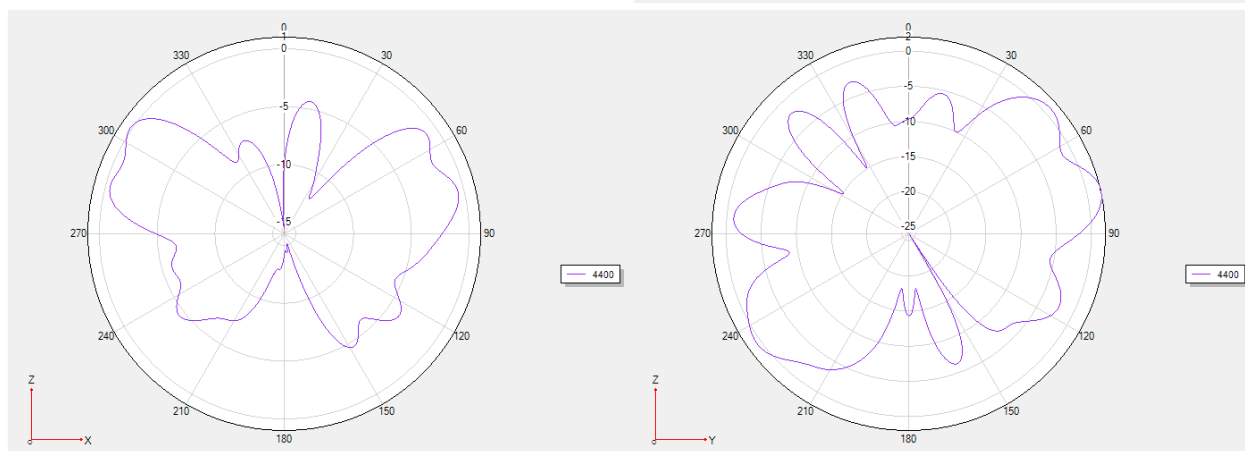
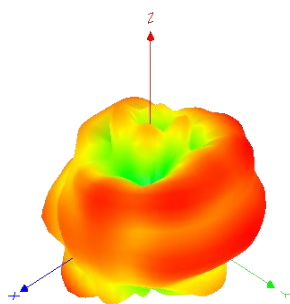
3300 MHz



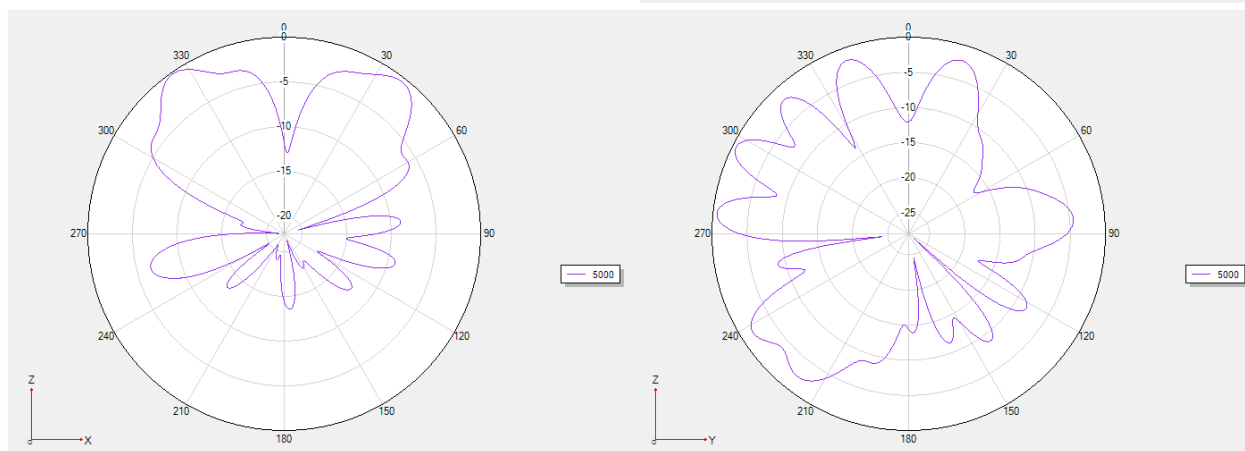
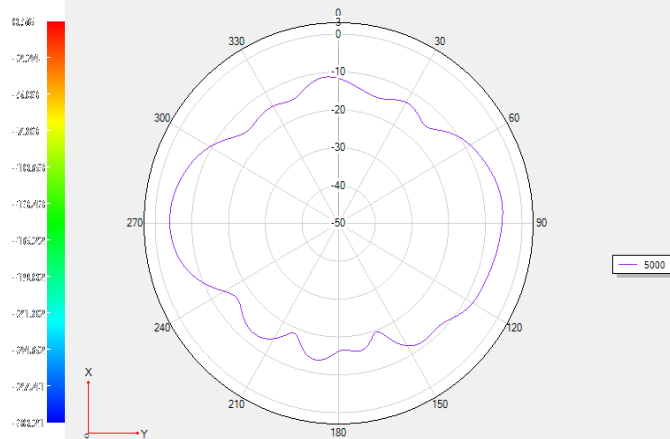
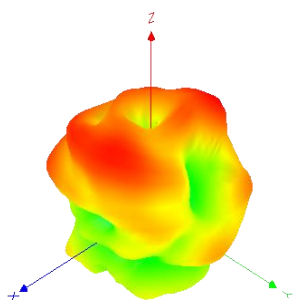
4200MHz



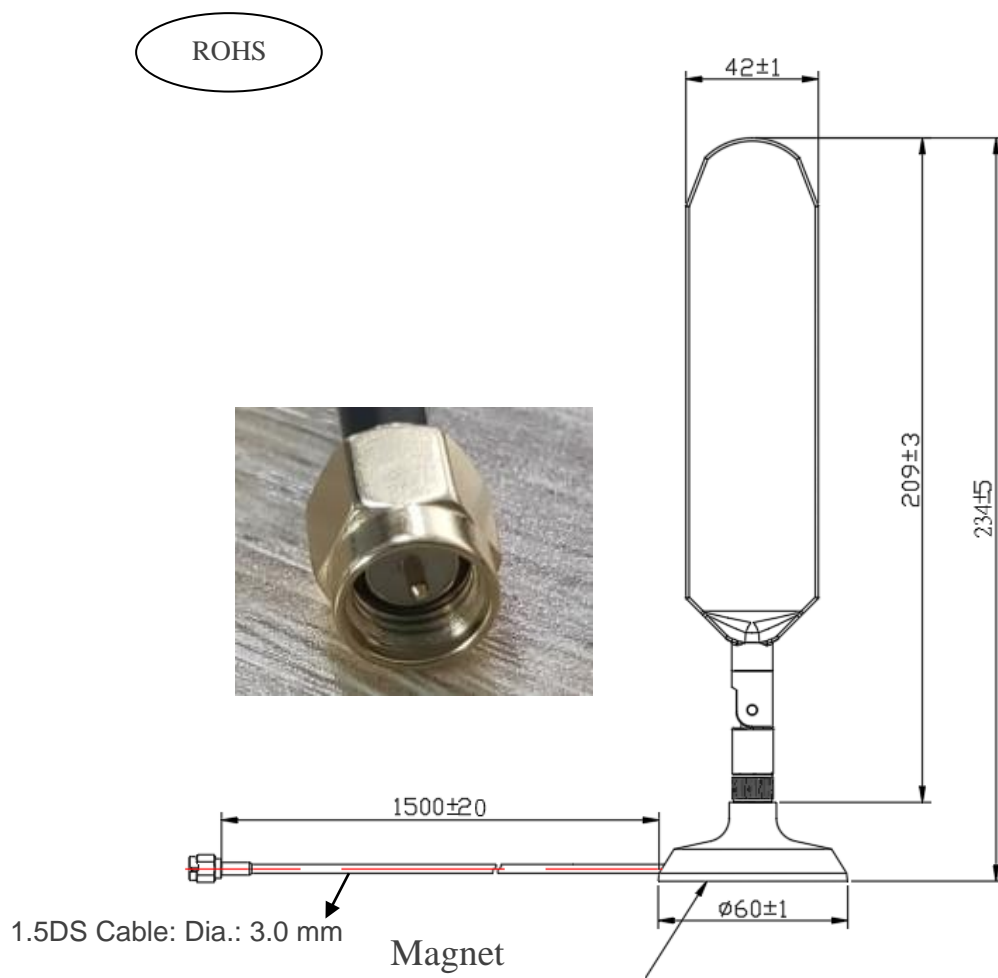
4400 MHz



5000 MHz



5 Product Size



Mouser Electronics

Authorized Distributor

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