

Antenna YE0021AA Datasheet

Antenna Services

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About the Document

Revision History

Version	Date	Author	Note
1.0	2020-08-20	Kenny YIN	Initial
1.1	2020-12-11	Kenny YIN	Updated the antenna image in Chapter 2.
1.2	2021-01-27	Kenny YIN	Added IP rating description and installation method.



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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

- 4G Antenna
- High efficiency
- Excellent performance





3 Product Specifications

Passive Electrical Specifications	
Frequency Range	690–960 MHz, 1710–2690 MHz
Input Impendence	50 Ω
VSWR	≤ 2.0
Gain	≤ 6 dBi
Polarization Type	Vertical
Mechanical Specifications	
Antenna Size	112 mm × 29.8 mm
Casing	ABS
Connector Type	SMA Male (with center pin)
Working Temperature	-20 °C to +80 °C
Radome Color	Black
IP rating	IP65
Installation method	Magnet



4 Overall Performance

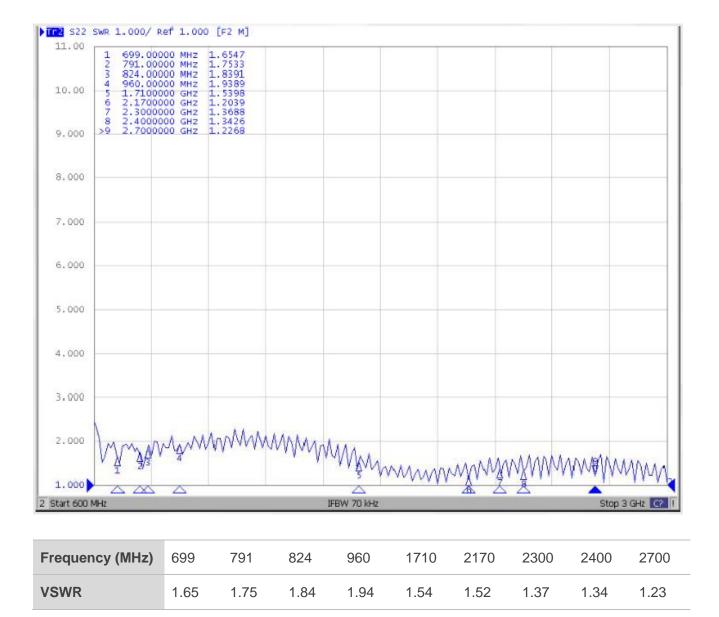
4.1. Test Environment

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



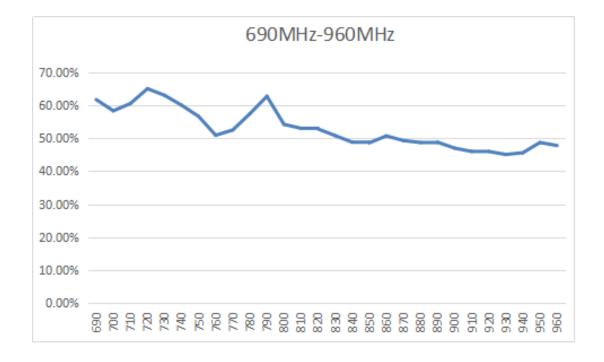


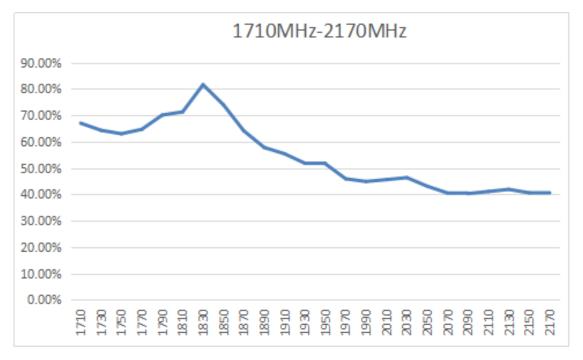
4.2. VSWR



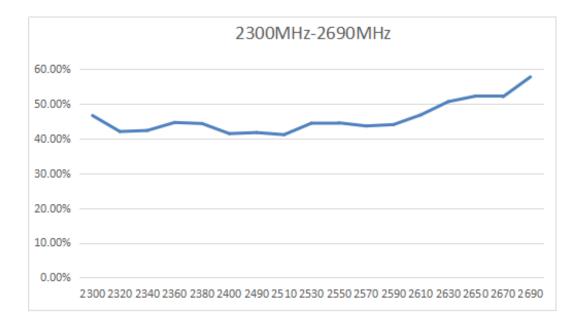


4.3. Efficiency



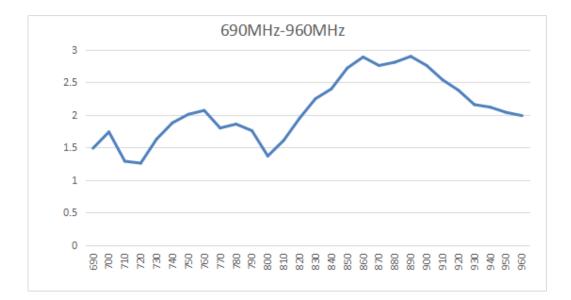




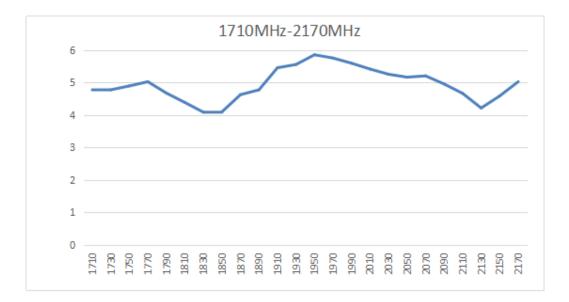


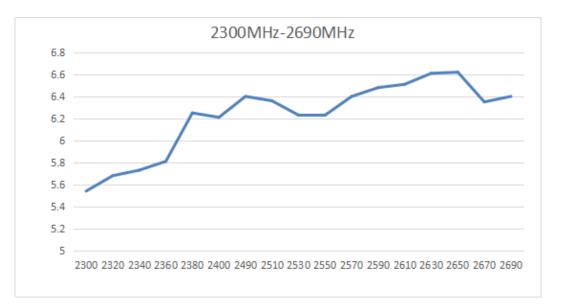
Frequency(MHz)	690	790	820	960	1710	2170	2300	2400	2690
Eff.(%)	61.7	62.7	52.8	47.8	67	40.8	46.6	41.4	57.7

4.4. Gain





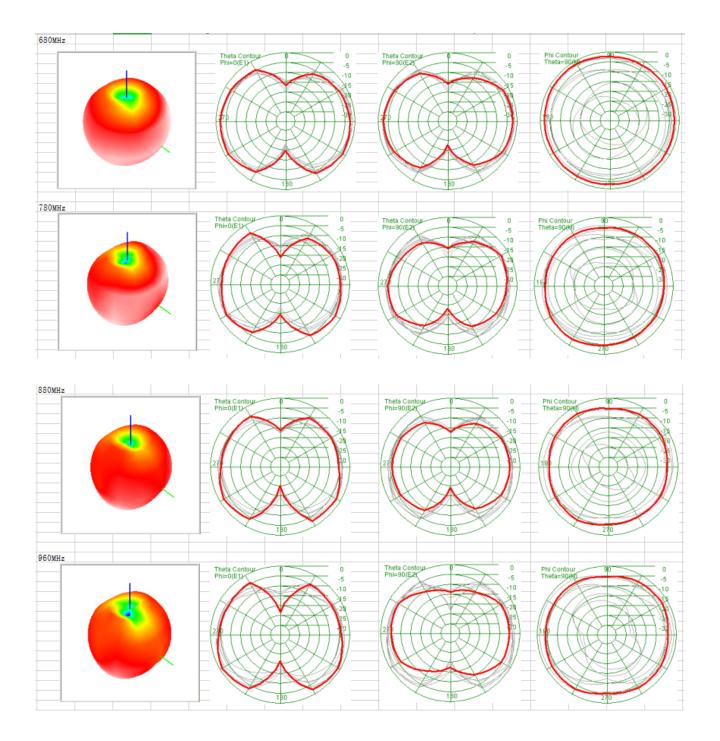




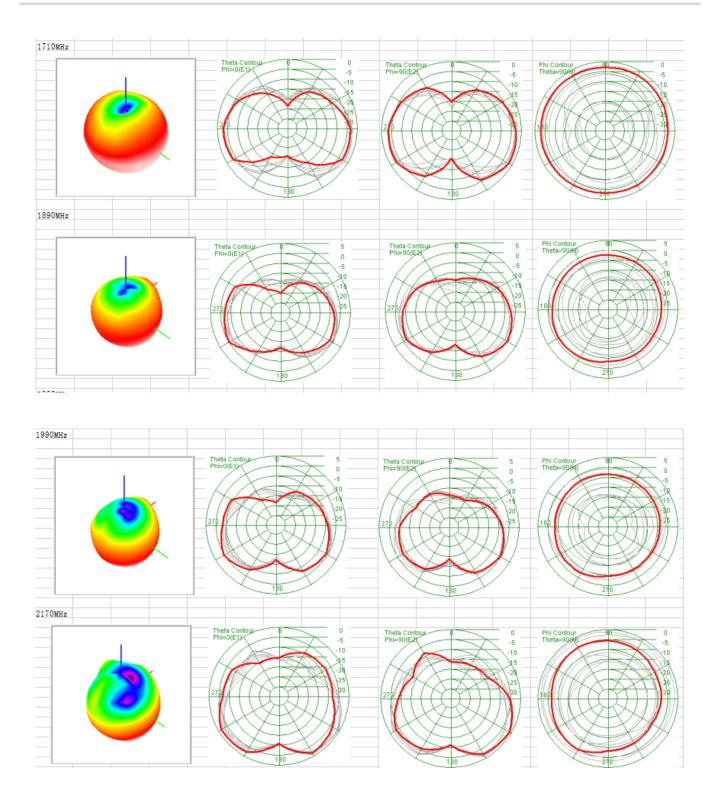
Frequency(MHz)	690	790	820	960	1710	2170	2300	2400	2690
Gain.(dBi)	1.49	1.76	1.95	1.99	4.78	5.03	5.54	6.21	6.4



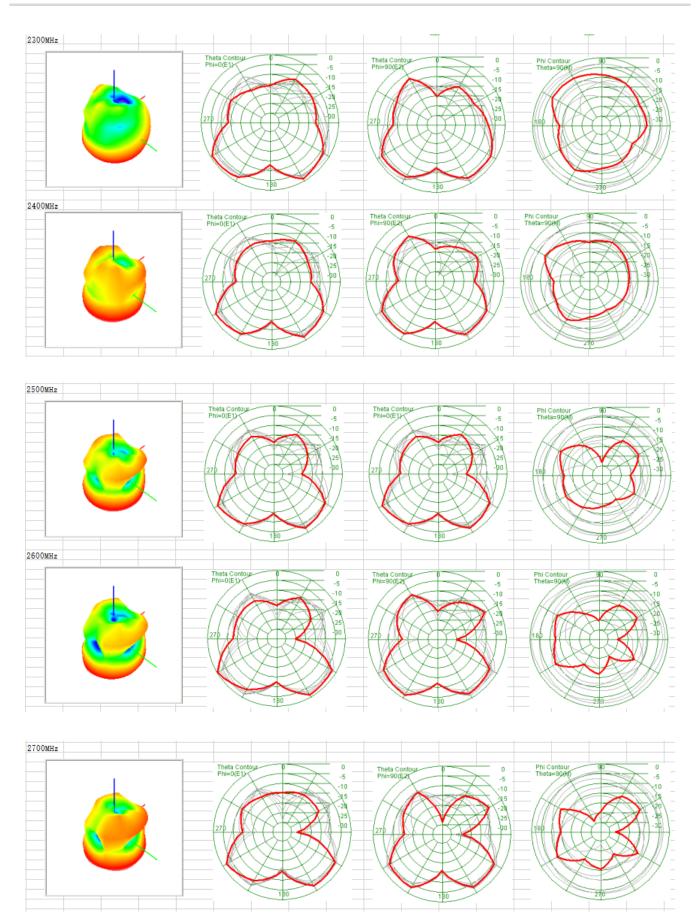
4.5. Radiation Patterns













5 Product Size

