

Antenna

YE0003AA Datasheet

Antenna Services

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Status: Released



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About the Document

Revision History

Version	Date	Author	Note
1.0	2020-06-04	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.

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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
- High efficiency
- Excellent performance



3 Product Specifications

Passive Electrical Specifications

Frequency Range	699–5000 MHz
Input Impedance	50 Ω
VSWR	≤ 5.0
Gain	≤ 2 dBi
Polarization Type	Linear

Mechanical Specifications

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

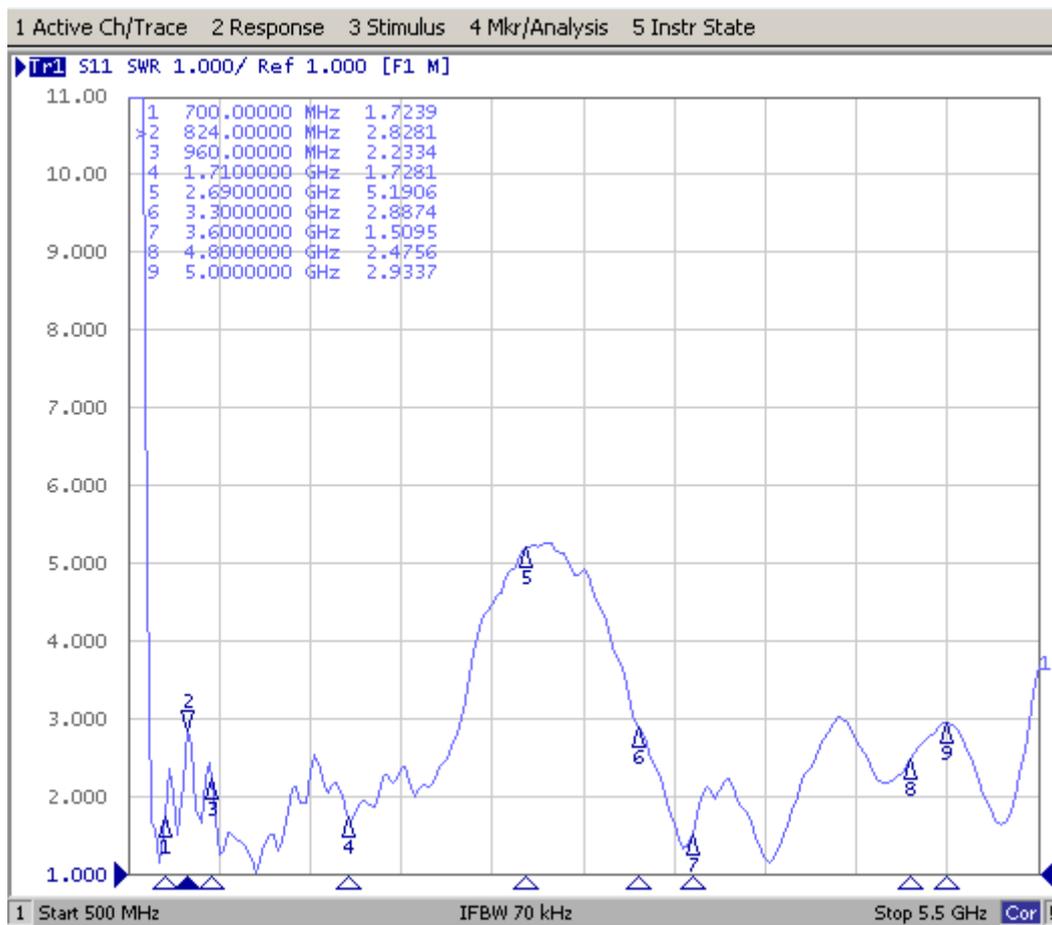
4 Overall Performance

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.

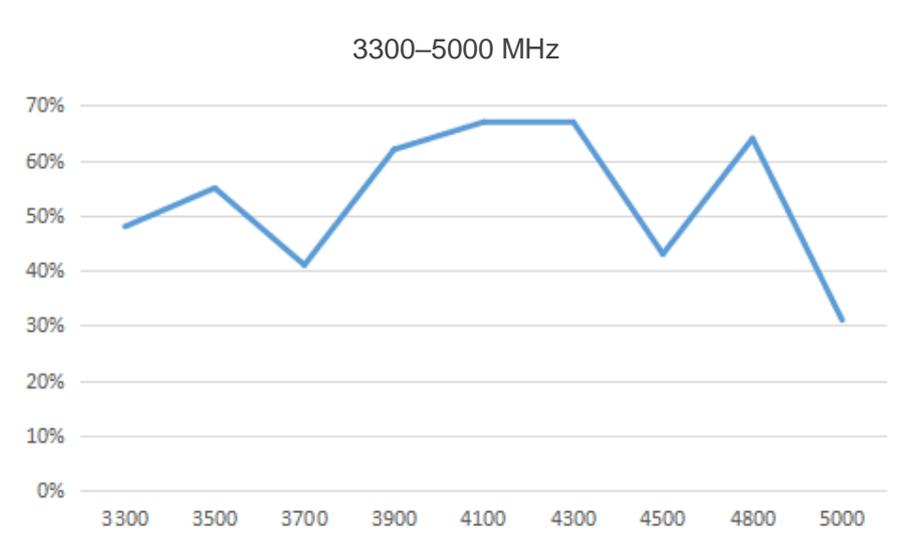
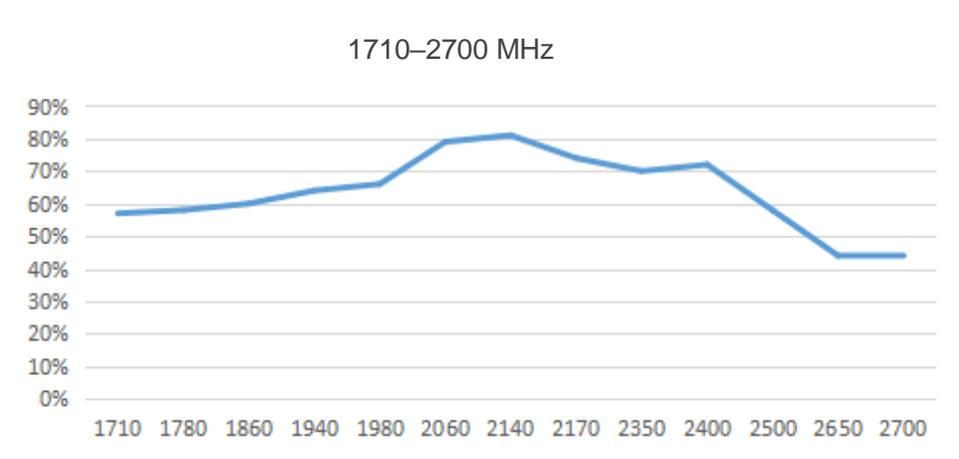
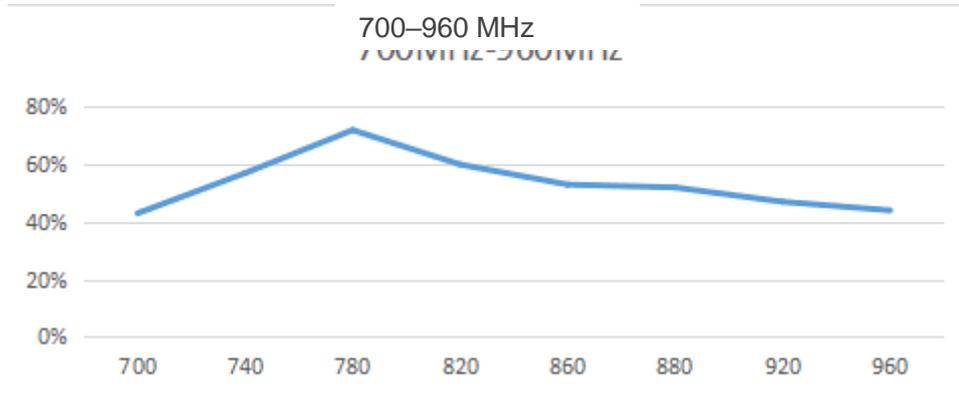


4.2 VSWR



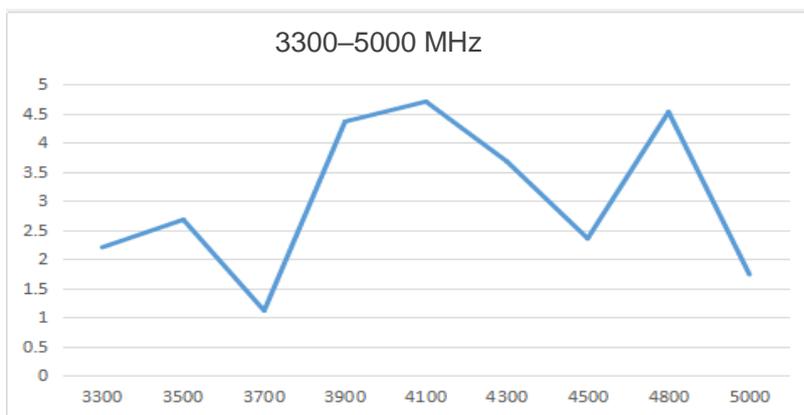
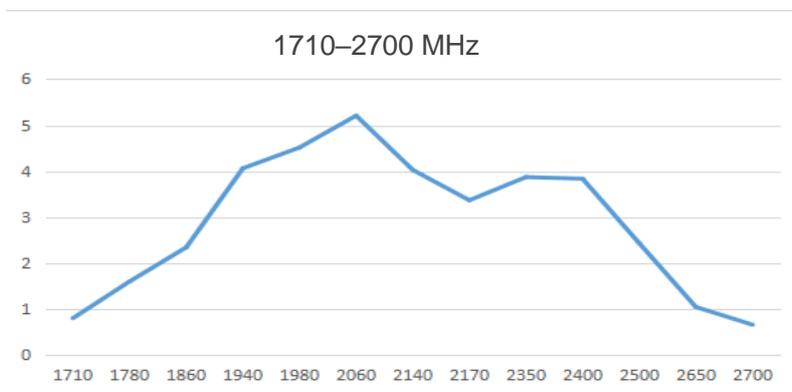
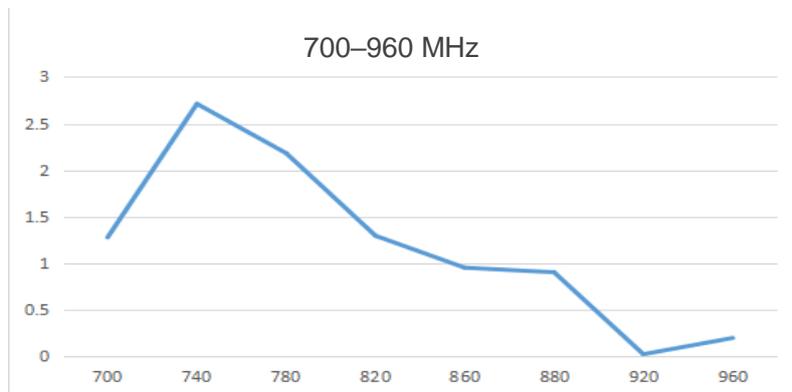
Frequency (MHz)	700	824	960	1710	2690	3300	3600	4800	5000
VSWR	1.7	2.8	2.2	1.7	5.1	2.8	1.5	2.4	2.9

4.3 Efficiency



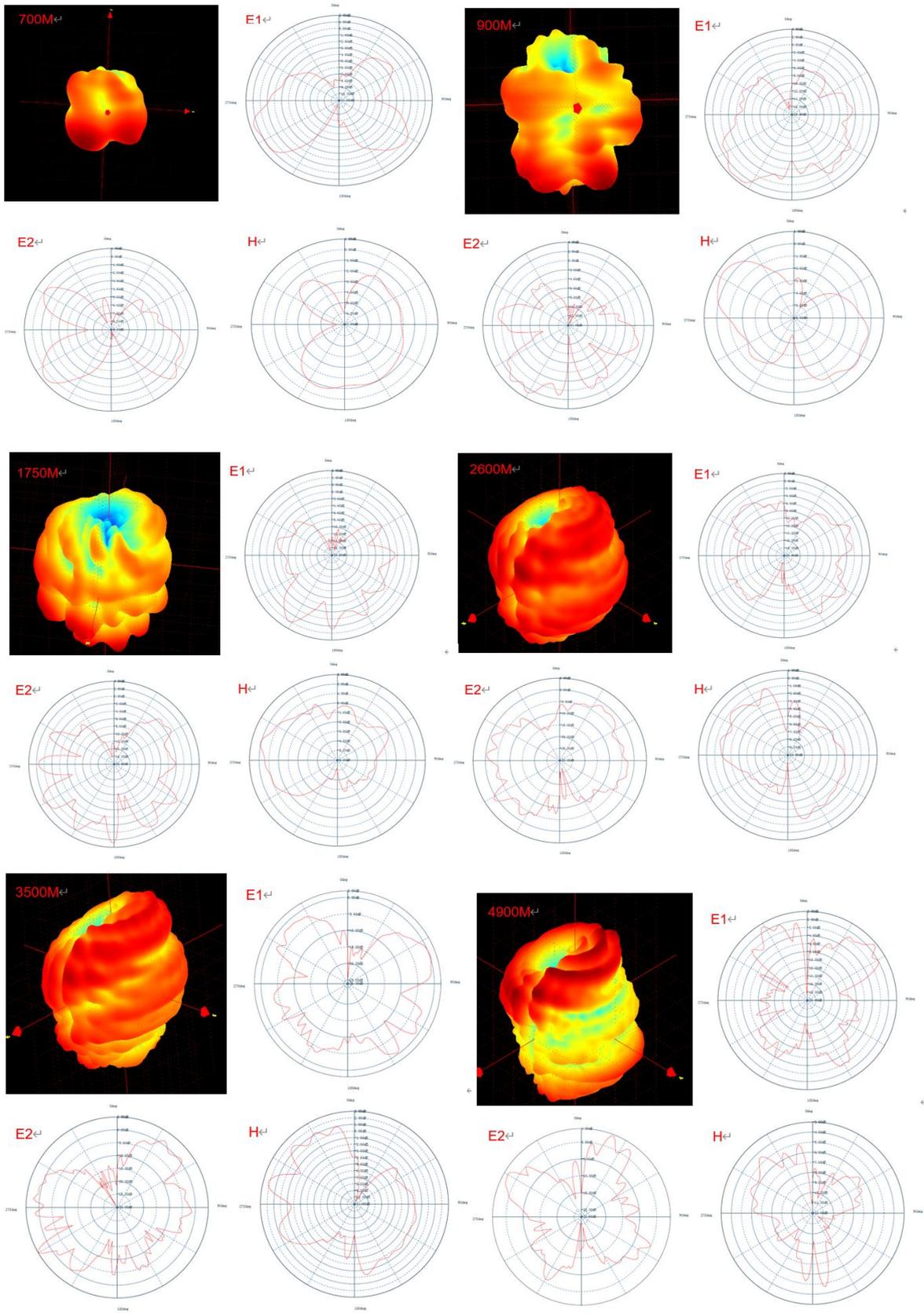
Frequency (MHz)	700	824	960	1710	2690	3300	3600	4800	5000
Efficiency (%)	43	60	47	57	44	48	42	64	31

4.4 Gain



Frequency (MHz)	700	824	960	1710	2690	3300	3600	4800	5000
Gain	1.2	1.2	0.1	0.8	0.6	2.2	1.9	4.5	1.7

4.5 Radiation Patterns



5 Product Size

