

# 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.

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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 Impedence	50 $\Omega$
VSWR	$\leq 5.0$
Gain	$\leq 2$ dBi
Polarization Type	Linear

#### Mechanical Specifications

Antenna Size	190 mm x 16 mm
Casing	PC + ABS
Radiator	Cuprum
Connect Type	SMA (Male pin with internal thread)
Working Temperature	-20 °C to +80 °C
Radome Color	Black

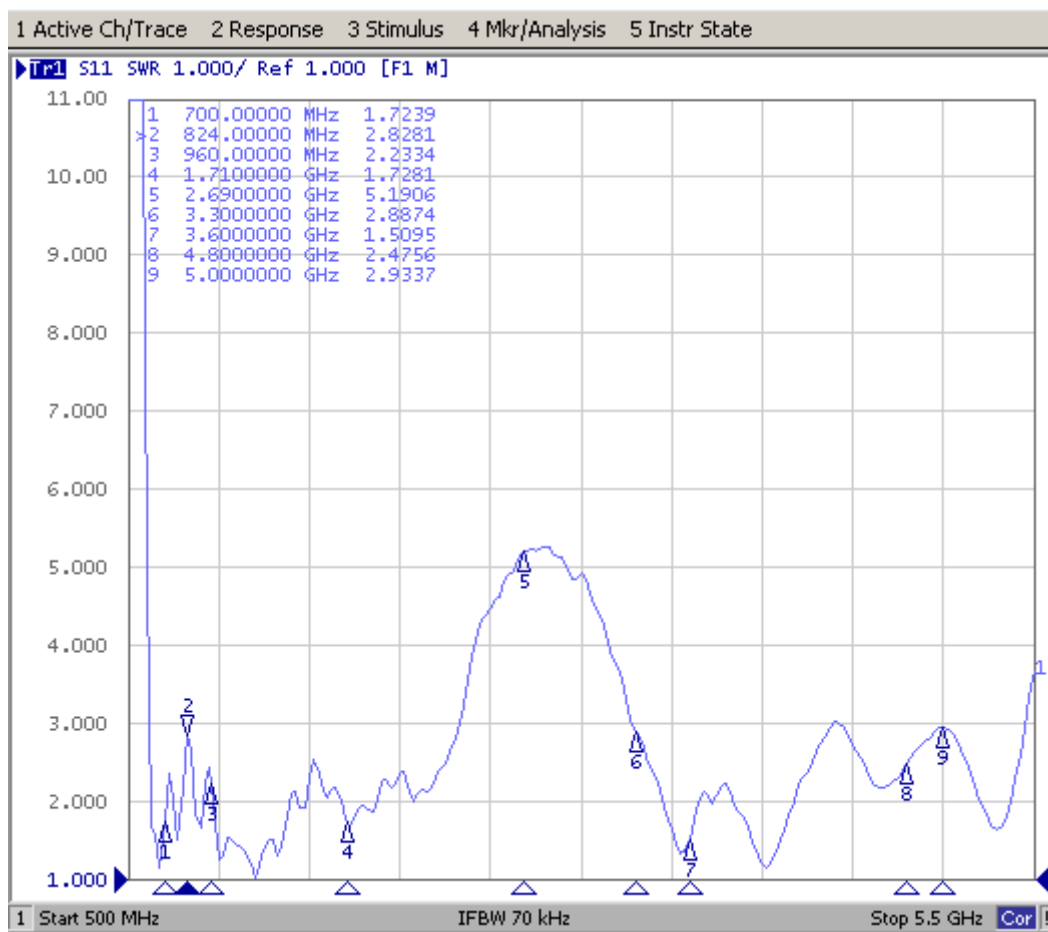
## 4 Overall Performance

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



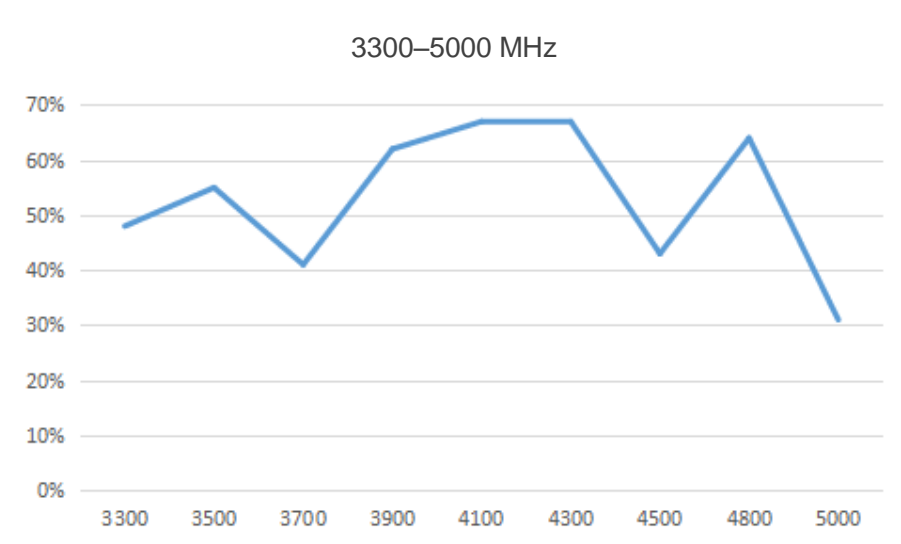
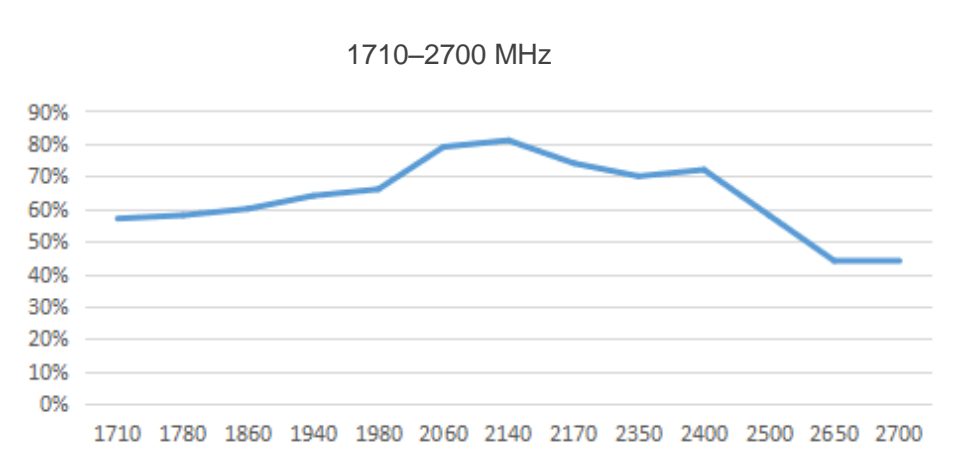
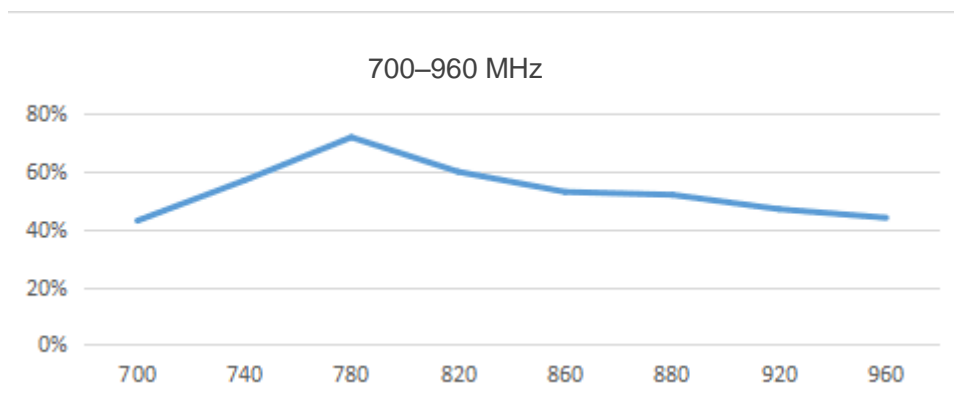


● VSWR



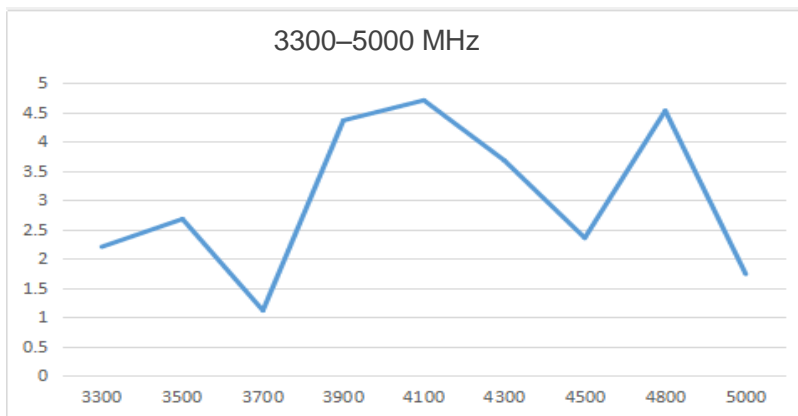
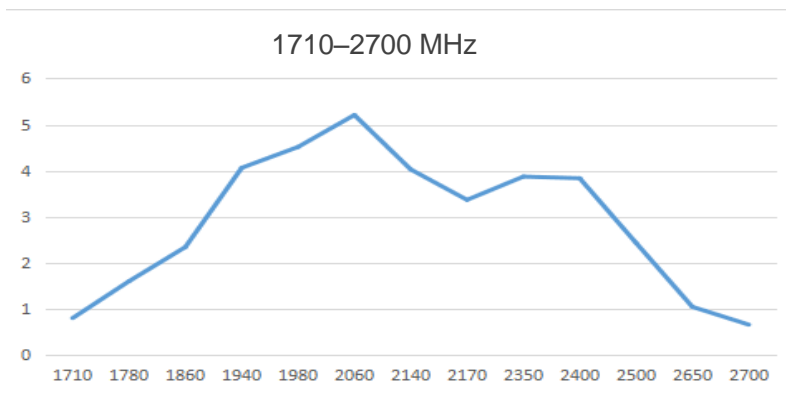
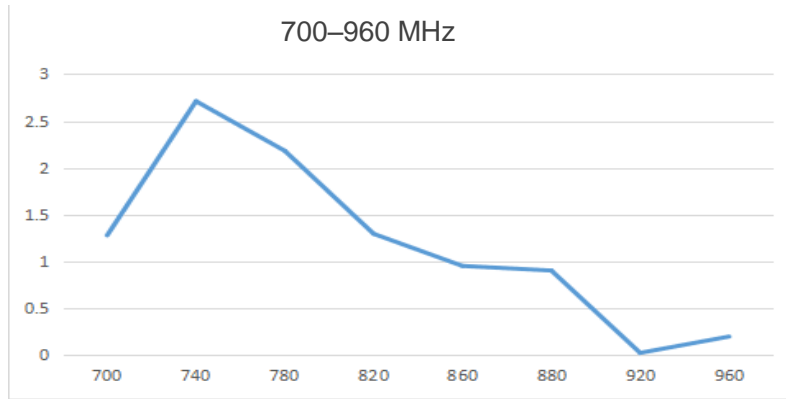
Frequency (MHz)	700	824	960	1710	2690	3300	3600	4800	5000
VSWR	1.7	2.8	2.2	1.7	5.1	2.8	1.5	2.4	2.9

● Efficiency



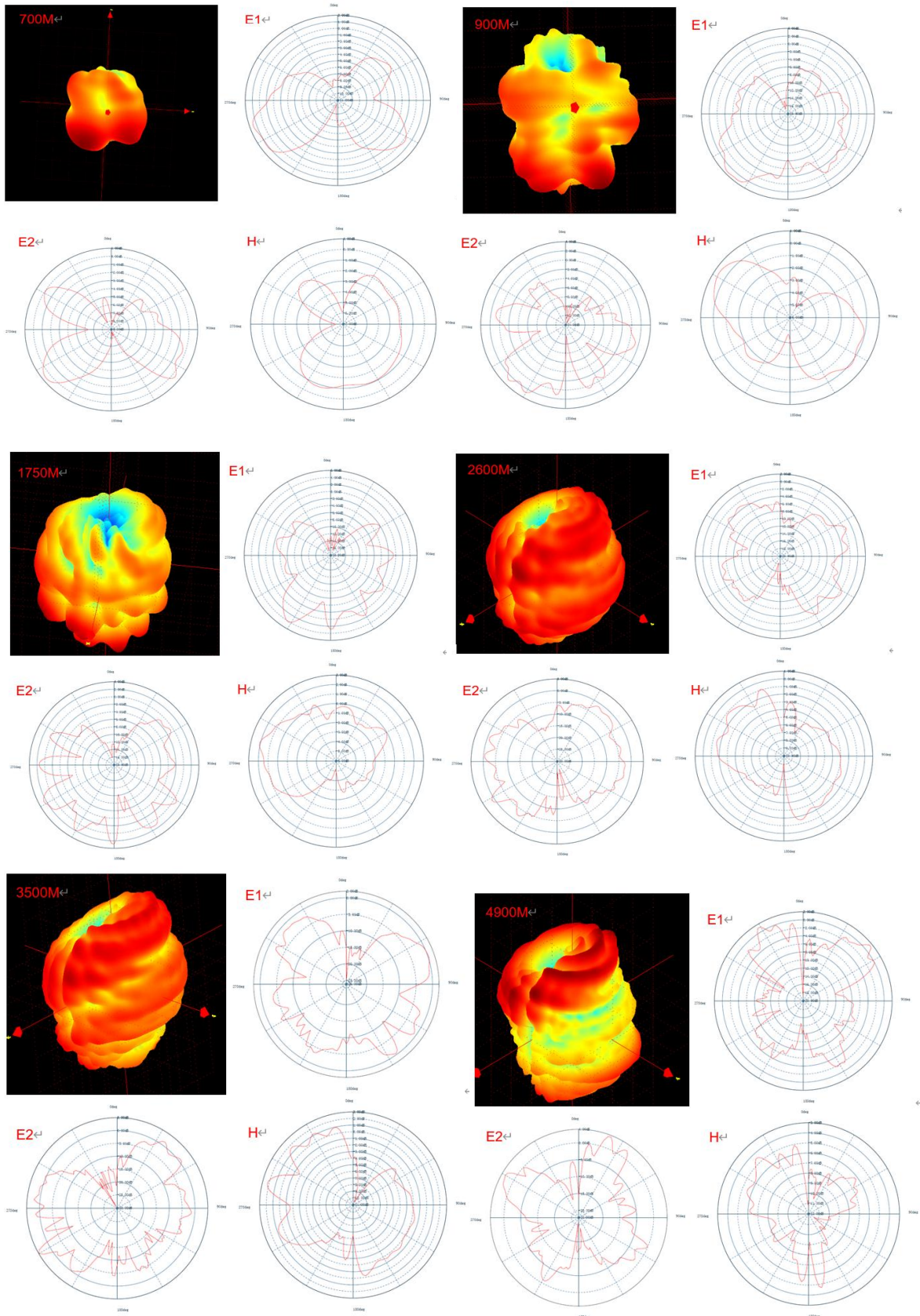
<b>Frequency (MHz)</b>	700	824	960	1710	2690	3300	3600	4800	5000
<b>Efficiency (%)</b>	43	60	47	57	44	48	42	64	31

● Gain

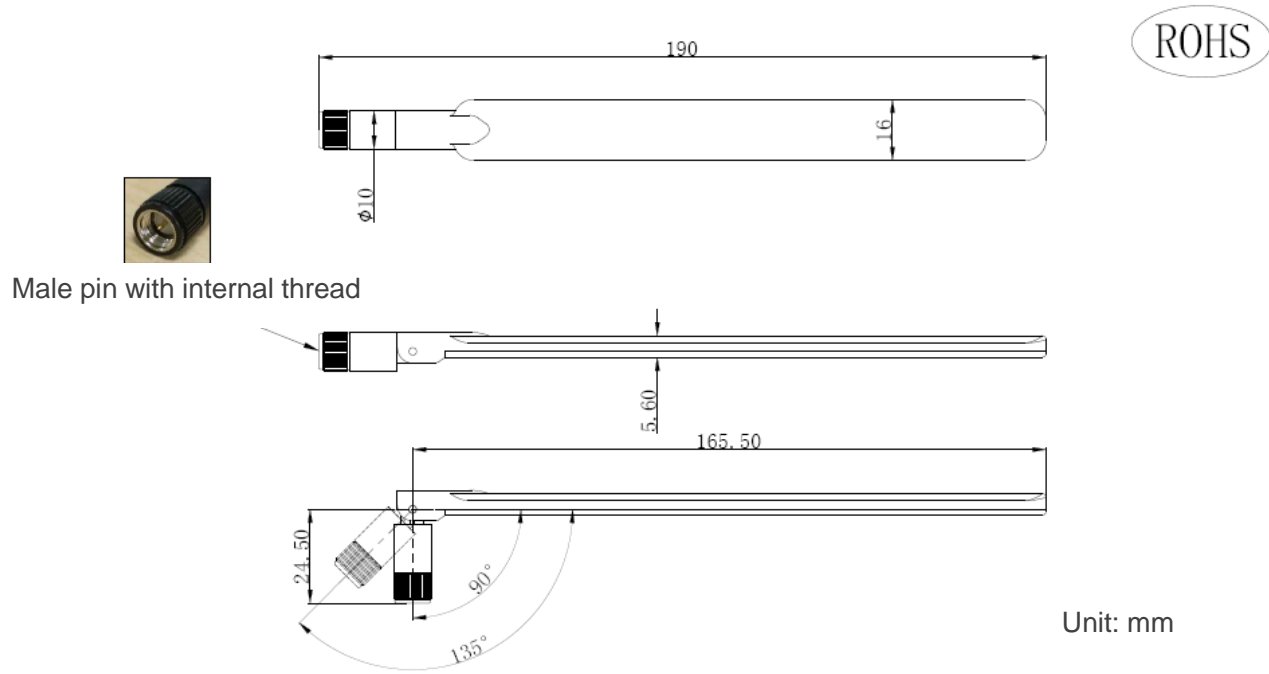


Frequency (MHz)	700	824	960	1710	2690	3300	3600	4800	5000
Gain	1.2	1.2	0.1	0.8	0.6	2.2	1.9	4.5	1.7

● Radiation Patterns



## 5 Product Size



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