

# Antenna YG0062AA Datasheet

#### **Antenna Services**

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#### Quectel Wireless Solutions Co., Ltd.

Building 5, Shanghai Business Park Phase III (Area B), No.1016 Tianlin Road, Minhang District, Shanghai 200233, China

Tel: +86 21 5108 6236 Email: info@quectel.com

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# **About the Document**

# **Revision History**

Version	Date	Author	Note
-	2020-06-02	Kenny YIN	Creation of the document
1.0	2020-06-02	Kenny YIN	First official release
2.0	2021-04-28	Aria CHU	Updated all test data in the datasheets.
2.1	2020-06-17	Kenny YIN	Updated working temperature

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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

- GNSS
- High efficiency
- Excellent performance



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# 3 Product Specifications

Passive Electrical Specifications			
Frequency Range	1575.42 ±3 MHz, 1602 ±3 MHz		
Input Impendence	50 Ω		
VSWR	≤ 2.0		
Gain	≤ 2.0 dBi		
Polarization Type	RHCP		
Mechanical Specifications			
Antenna Size	25 mm × 25 mm × 4 mm		
Casing	Ceramics		
Connector Type	-		
Working Temperature	-40 °C to +85 °C		
Radome Color	-		

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## **4 Overall Performance**

#### 4.1. Test Environment

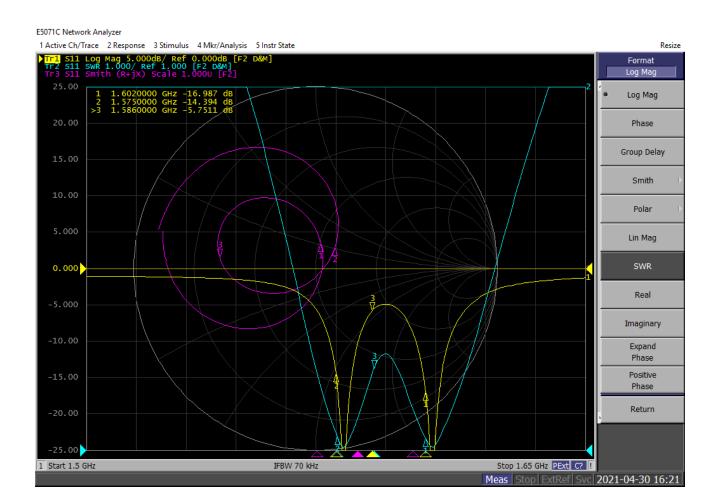
- KEYSIGHT VNA Network Analyzer E5063A 100 kHz 8.5 GHz
- RayZone® 2800 Chamber 5G (FR1) SISO/MIMO, 400 MHz 8.0 GHz



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#### **4.2. VSWR**

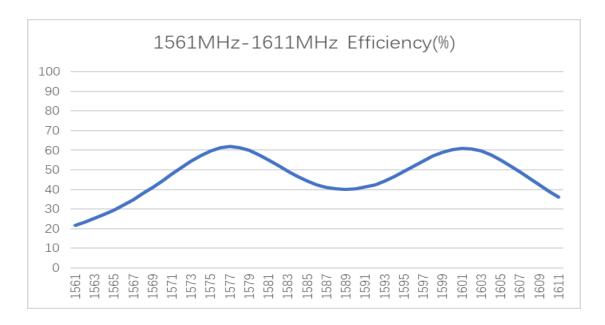


Frequency (MHz)	1575	1602
RL	-14.39	-16.98

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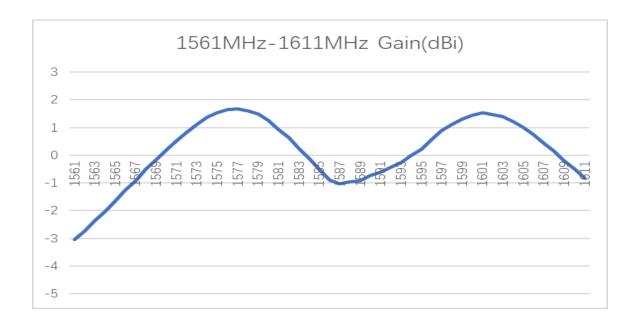


## 4.3. Efficiency



Frequency (MHz)	1575	1602
Efficiency (%)	59.81	60.60

#### 4.4. Gain

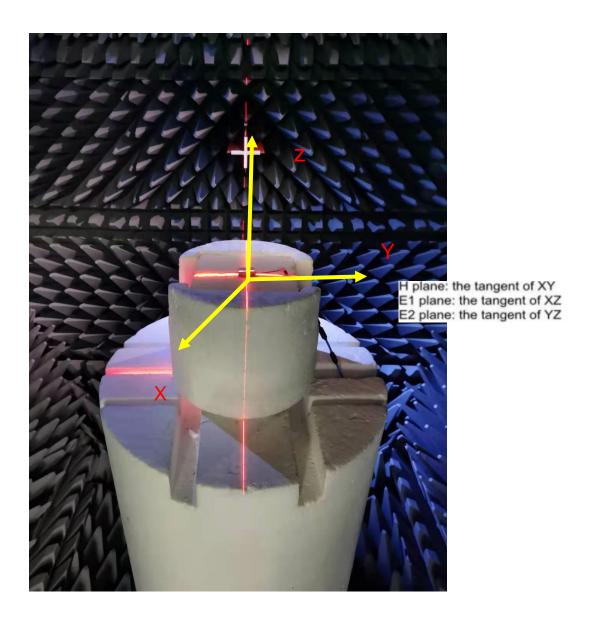


Frequency (MHz)	1575	1602
Gain (dBi)	1.54	1.46

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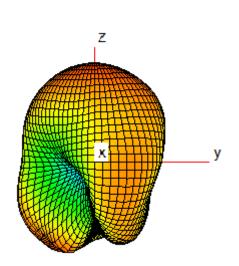
## 4.5. Radiation Patterns

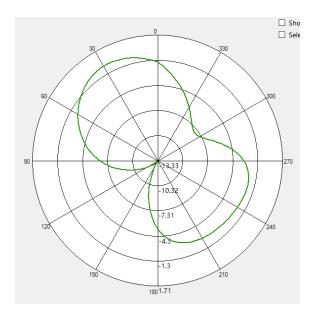


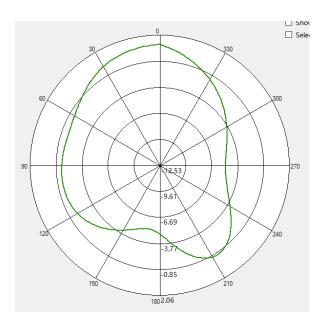
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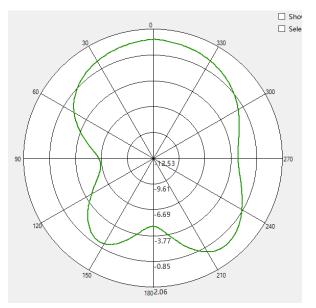


#### 4.5.1. 1575 MHz





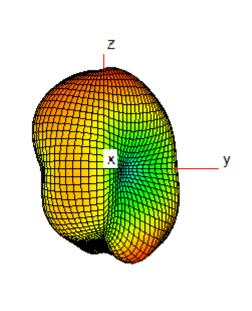


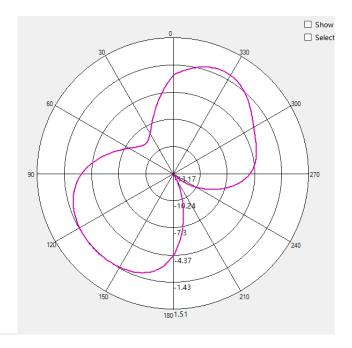


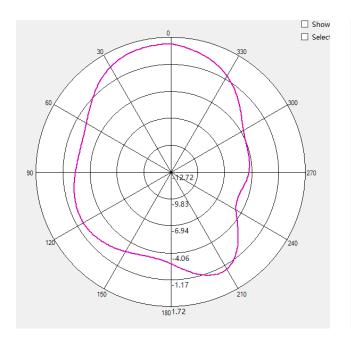
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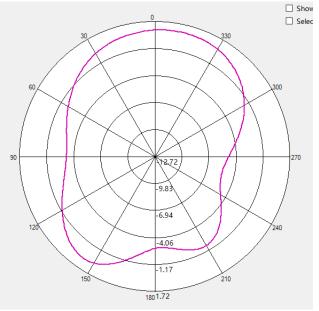


#### 4.5.2. 1602 MHz





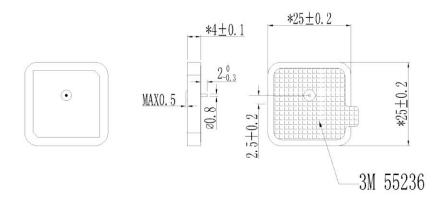




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# 5 Product Size



Unit:mm

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