

Antenna YCG0006AA Datasheet

Antenna Services

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About the Document

Revision History

Version	Date	Author	Note
-	2021-05-18	Kenny YIN/ Aria CHU	Creation of the document
1.0	2021-05-18	Kenny YIN/ Aria CHU	First official release

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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

- GPS L1 & BD B1
- High efficiency
- Excellent performance



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3 Product Specifications

Passive Electrical Specifications			
Frequency	1559–1577 MHz		
Input Impendence	50 Ω		
VSWR	≤ 2		
Gain	≤ 2.0 dBi		
Polarization Type	RHCP		
Mechanical Specifications			
Antenna Size	18 mm × 18 mm × 6.3 mm		
Casing	Ceramics		
Connector Type	IPEX MHF 1		
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**

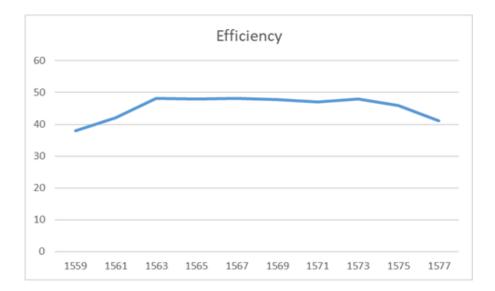


Frequency (MHz)	1561	1575
VSWR	1.2	1.16

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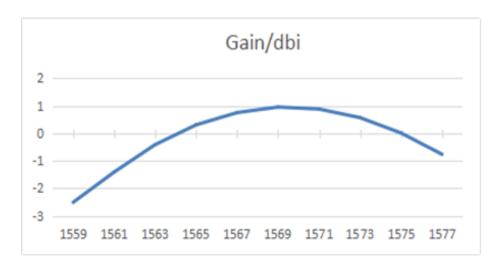


4.3. Efficiency



Frequency (MHz)	1561	1575
Efficiency (%)	42	46

4.4. Gain

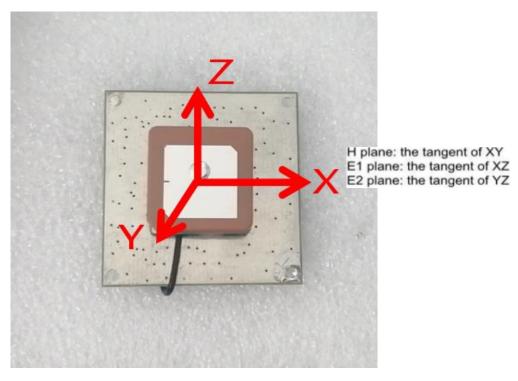


Frequency (MHz)	1561	1575
Gain (dBi)	-1.4	0.1

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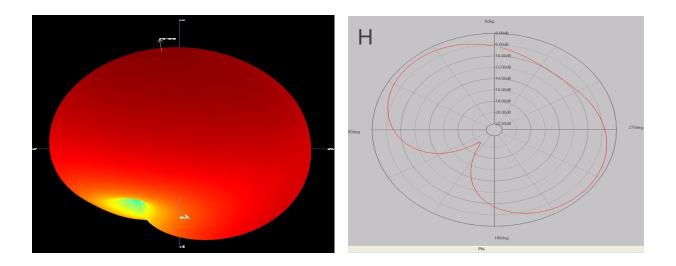


4.5. Radiation Patterns



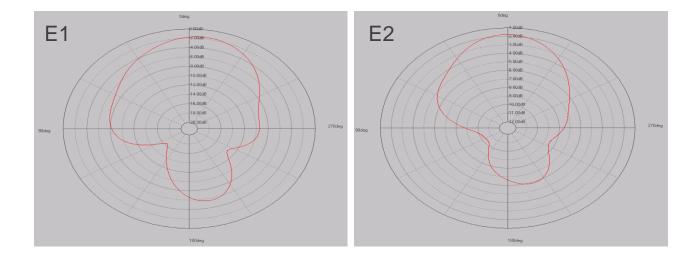
• Note: By 40 mm square ground plane.

4.5.1. 1561 MHz

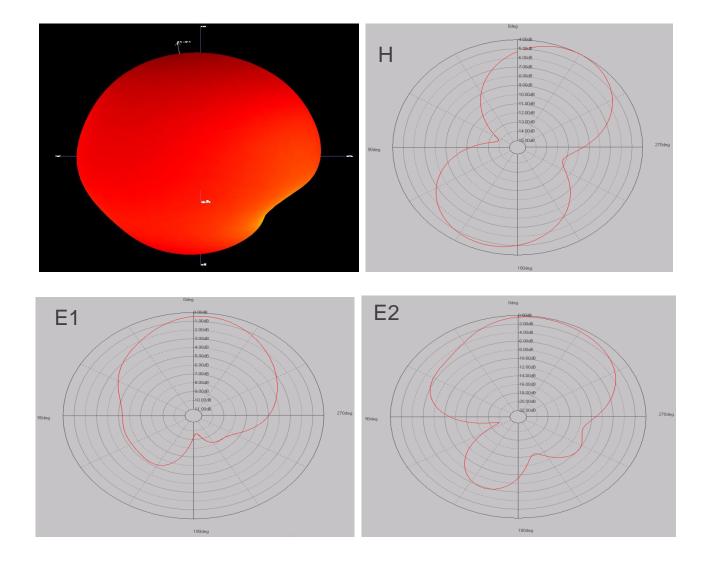


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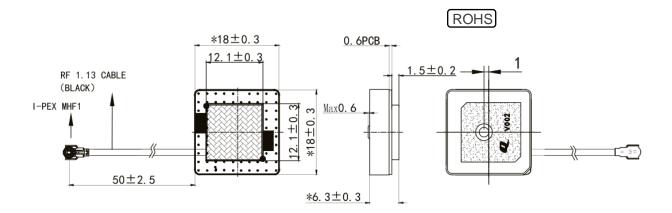
4.5.2. 1575 MHz



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5 Product Size



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