

# Antenna

# YG0016AA Datasheet

OC: YG0016AA



# About the Document

## Revision History

Version	Date	Author	Note
1.0	2020-09-02	Kenny YIN	Initial

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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

### 3 Product Specifications

#### Passive Electrical Specifications

Frequency Range	1561 MHz 1575 MHz 1602 MHz 1606 MHz		
Input Impedence	50 Ω		
Return Loss	<-10		
Gain	1561 MHz	4.7 dBic typ.	
	1575 MHz	4.8 dBic typ.	
	1602 MHz	4.65 dBic typ.	
	1606 MHz	4.54 dBic typ.	
Polarization Type	R.H.C.P		

#### LNA Electrical Properties

Frequency Range	1561 MHz 1575 MHz 1602 MHz 1606 MHz		
Gain	1561 MHz	25±3 dB (at 3.3 ±0.1 V)	
	1575 MHz	27±3 dB (at 3.3 ±0.1 V)	
	1602 MHz	27±3 dB (at 3.3 ±0.1 V)	
	1606 MHz	27±3 dB (at 3.3 ±0.1 V)	
Noise Figure	2.0 dB typ		
Output VSWR	2.0 max.		
Filter Outband attenuation (at 3.0±0.1 V)	32 dB typ.	fo ±50 MHz	
	45 dB typ.	fo ±100 MHz	
Voltage	3.3 ±0.6 V		
Current	10 ±3 mA (at 3.3 ±0.1 V)		
Impedance	50 Ω		

#### Mechanical Specifications

Antenna Size	36.1 mm × 36.1 mm × 10.25 mm, RG174 L=130mm		
Casing	Ceramics		
Radiator	Silver		
Connect Type	SMA (Male pin with internal thread)		
Working Temperature	-40 °C to +85 °C		
Radom Color	-		

## 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.



## 5 Product Size

