Antenna

YG0005AA Datasheet

Antenna Services

Version: 1.1

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Status: Released

Our aim is to provide customers with timely and comprehensive service. For any assistance, please contact our company headquarters:

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About the Document

Revision History

Version	Date	Author	Note
-	2020-08-04	Kenny YIN	Creation of the document
1.0	2020-08-04	Kenny YIN	First official release
1.1	2021-01-05	Kenny YIN	Updated the antenna image and size description.

Contents

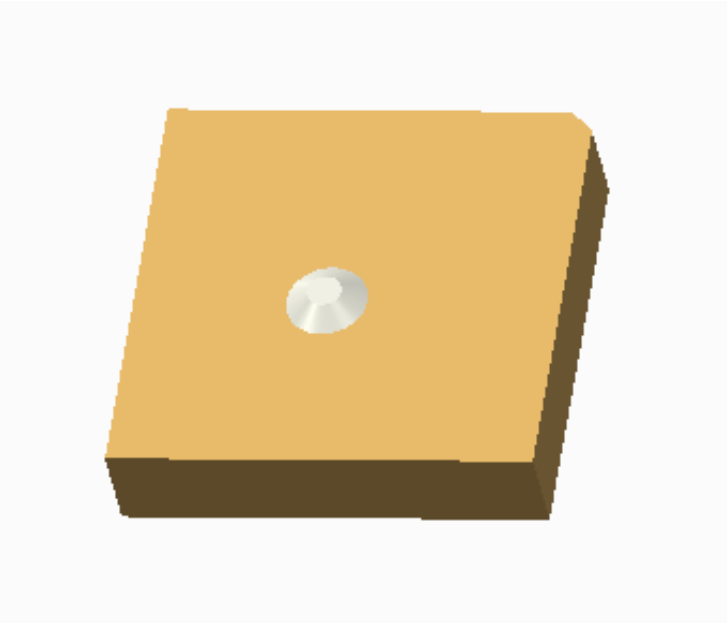
1 Product Description

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
- High efficiency
- Excellent performance



3 Product Specifications

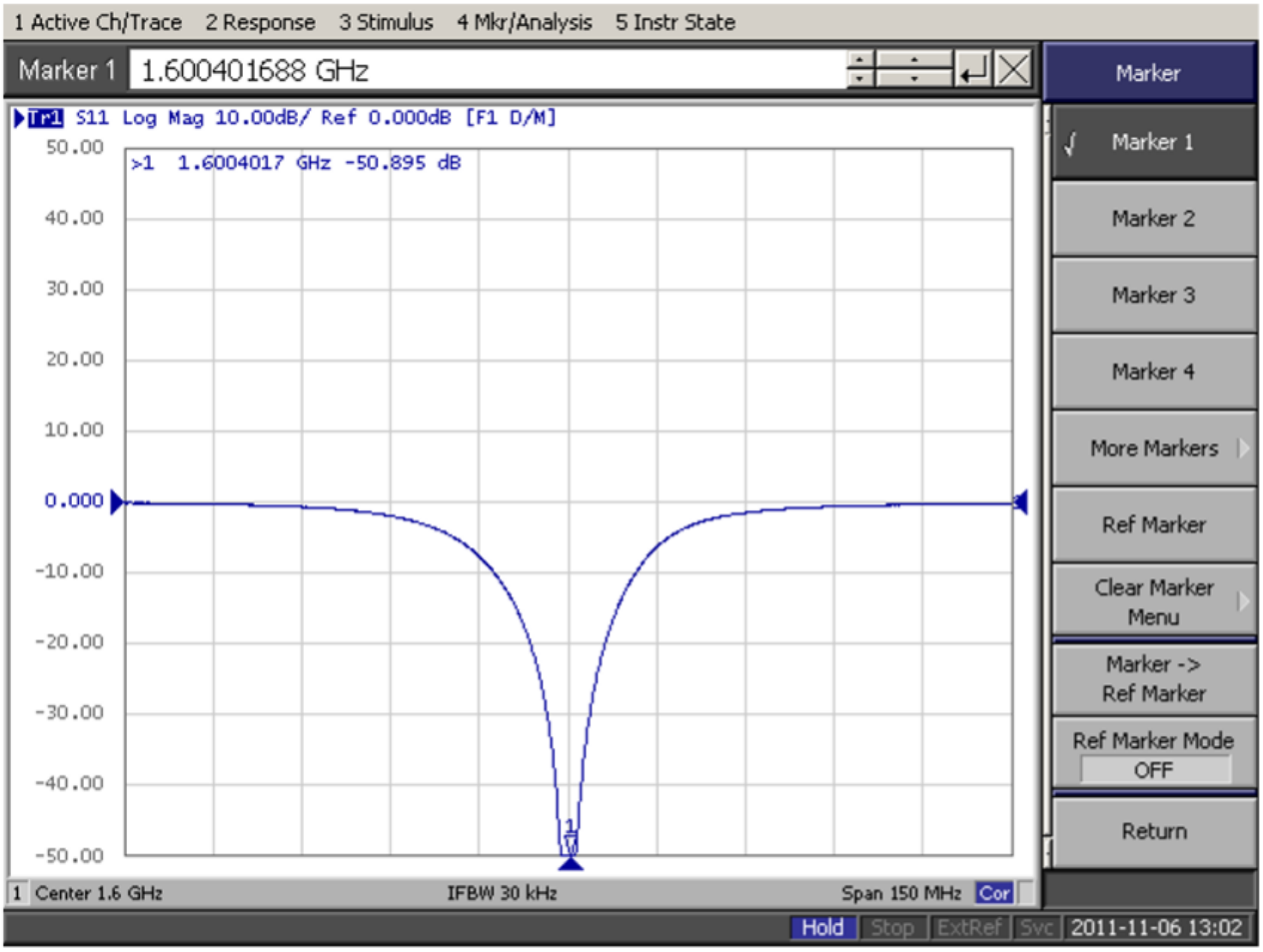
Passive Electrical Specifications		
Frequency Range	1600.4 ±3 MHz 1575.42 MHz	By Test Ground Plane In Customer's Model
Input Impendence	50 Ω	
Return Loss	≤ -20 dB	By Test Ground Plane
Gain	/	
Efficiency	/	
Polarization Type	RHCP	
Mechanical Specifications		
Antenna Size (mm)	18.4 mm × 18.4 mm × 4 mm	
Casing	Ceramics	
Connector Type	/	
Working Temperature	-40 °C to +85 °C	
Radome Color	/	

4 Overall Performance

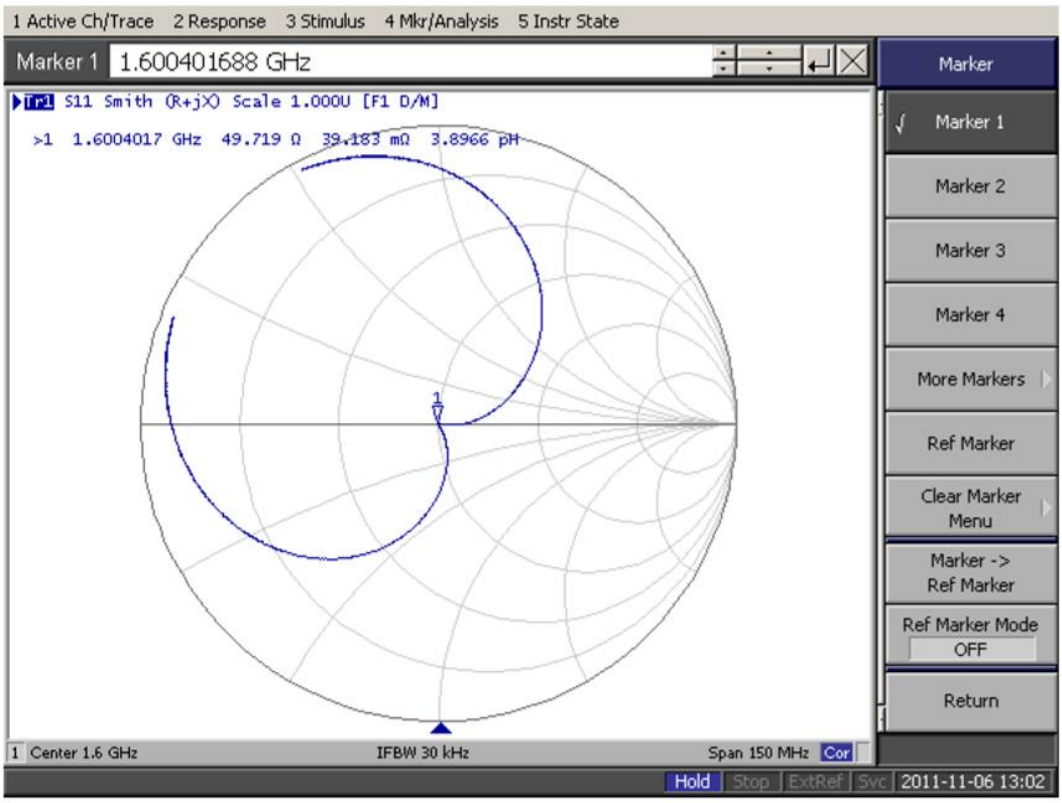
4.1. Test Environment

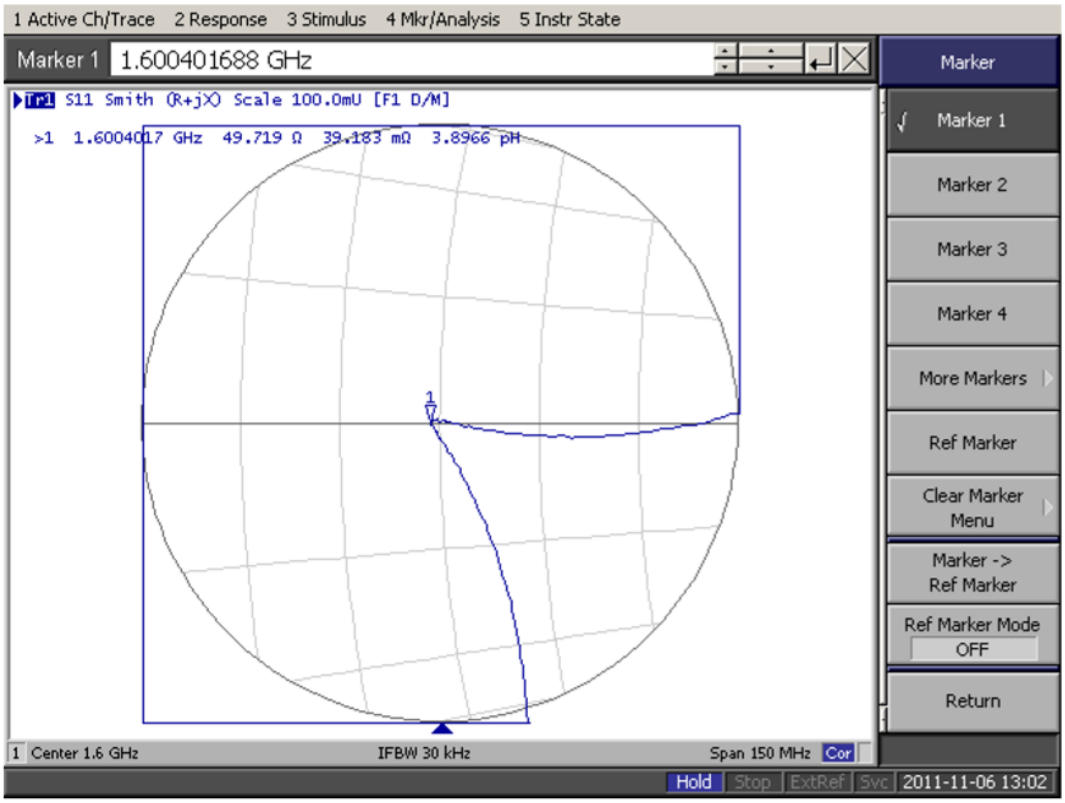
- KEYSIGHT VNA Network Analyzer E5063A 100 kHz – 6.5 GHz
- RayZone® 2800 Chamber 5G (FR1) SISO/MIMO, 400 MHz – 6.0 GHz

4.2. Return Loss (By Test Ground Plane)

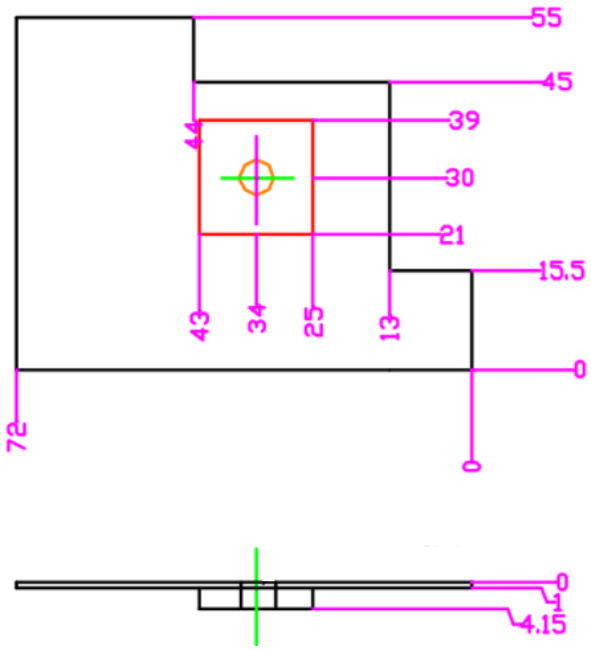


4.3. Measured Input Impedance on a Smith Chart (By Test Ground Plane)



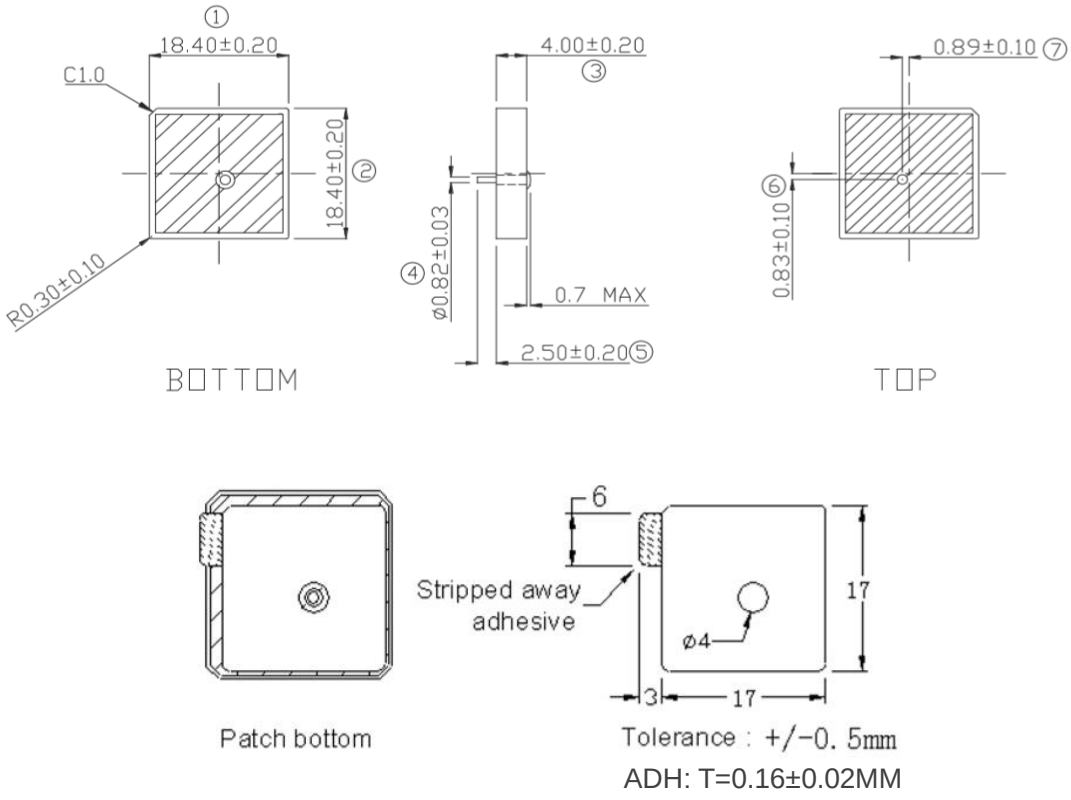


4.4. Test Condition Ground Plane (Unit: mm)



5. Product Size

RoHS



Adhesive Tape