

Antenna

YLY001CA Datasheet

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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 & BD
- High efficiency
- Excellent performance



3 Product Specifications

Electrical Specifications

Nominal Frequency	1568 ±10 MHz
10 dB Bandwidth	≥ 20 MHz
Output VSWR	≤ 2.0
Efficiency	≥ 60 %
Elevation 0° Gain	3 dBi type
Elevation 100° Gain	-5 dBi type
Polarization Polarization	RHCP
Axial Ratio	≤ 5
Impedance	50 Ω

LNA Electrical Properties

Center Frequency	1568 MHz
Gain	28 ±2 dBi
Noise Figure	≤ 1.5 dB
Output VSWR	≤ 1.5
Passband Ripple	≤ 1 dB
Voltage	DC 3.3 ±0.3 V
Current	≤ 15 mA
Impedance	50 Ω

Mechanical Specifications

Antenna Size	45.5 mm × 38 mm × 13.5 mm
Casing	Plastic PC + ABS

Connect Type	SMA (Male connector with threads on the inside)
Working Temperature	-20 °C to +85 °C
Radom Color	Black
Mounting Method	Magnetic mount

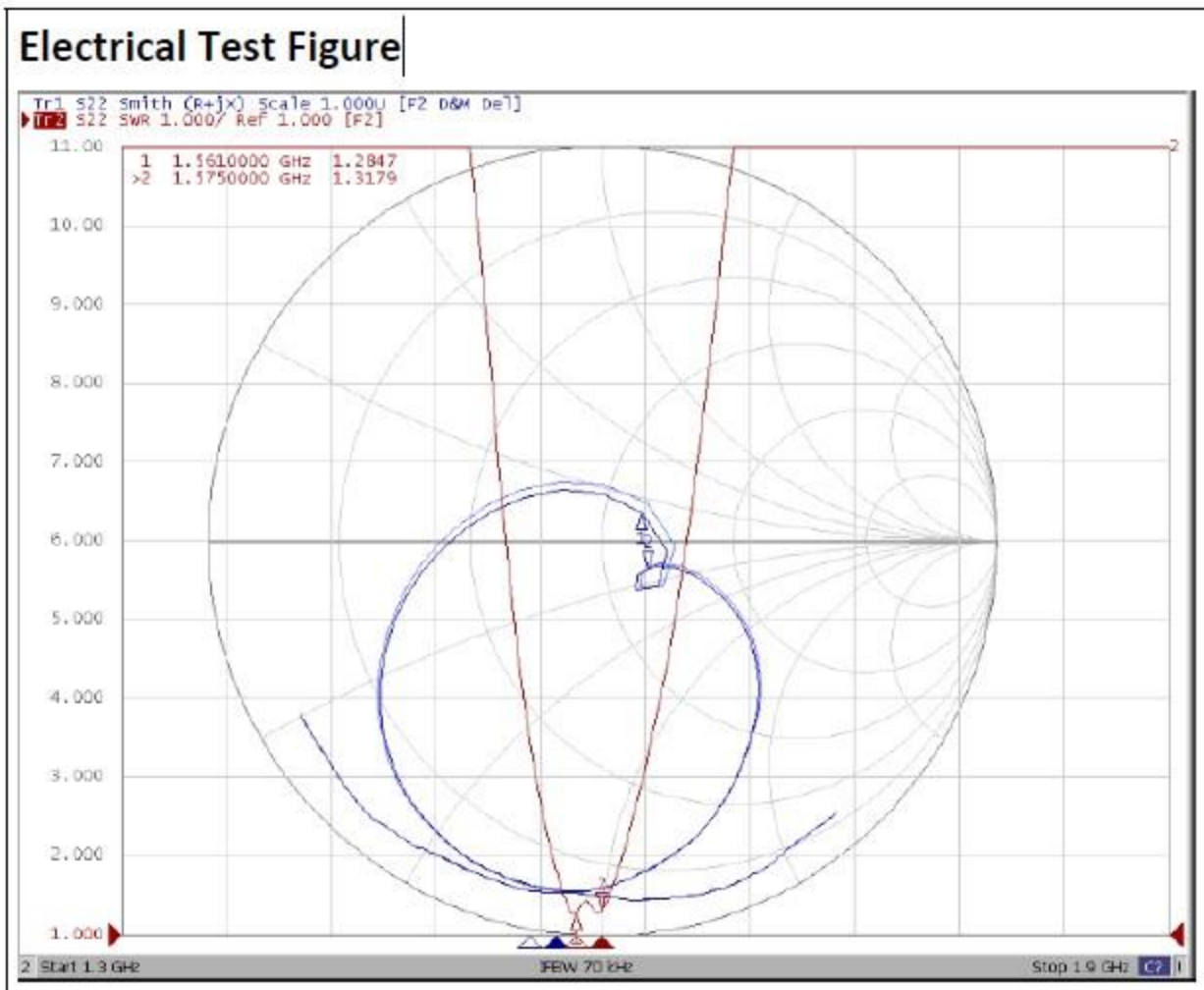
4 Overall Performance

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. VSWR



5 Product Size

ROHS

