

Antenna

YG0034AA Datasheet

OC: YG0034AA



About the Document

Revision History

Version	Date	Author	Note
1.0	2020-10-28	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

- GPS 1575 MHz
- High efficiency
- Excellent performance

3 Product Specifications

Electrical Specifications

Nominal Frequency	1575 MHz
Bandwidth (10 dB return loss)	Min. 10 MHz
Output VSWR	≤ 2.0
Polarization Type	RHCP
Axial Ratio	Typ. 3.0 dB (for PDA mechanical & ground 13 mm × 13 mm)
Impedance	50 Ω

LNA Electrical Properties

Center Frequency	1575 MHz
Gain (DC = 3.0 V)	21 $\pm$ 3 dB
Noise Figure (DC = 3.0 V)	Typ. 1.5 dB
Output VSWR (DC = 3.0 V)	Max. 2.0
Current (DC = 3.0 $\pm$ 0.01 V)	3.5 $\pm$ 1 mA
Impedance	50 Ω

Mechanical Specifications

Antenna Size	13 mm × 13 mm × 6.8 mm
Casing	-
Connector Type	IPEX MHF I
Working Temperature	-40 °C to +80 °C
Radom Color	-

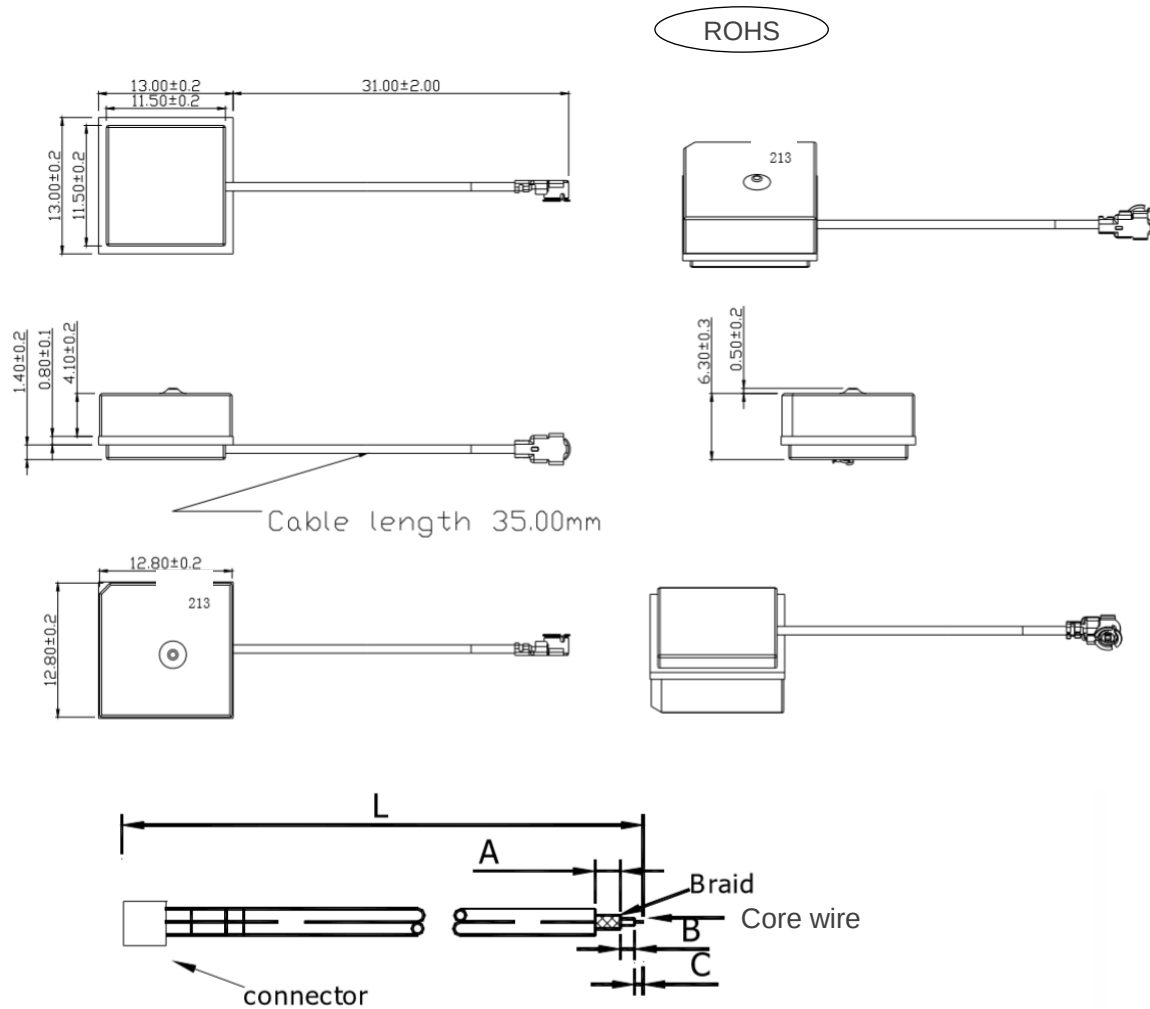
4 Overall Performance

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



Connector : I-PEX MHF , Cable : RF Cable $\phi 0.8$ Gray

L : 35±2mm A : 1.5±0.5mm B : 1±0.3mm C : 1±0.3mm

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