

# Antenna YG0021AA Datasheet

#### **Antenna Services**

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# **About the Document**

# **Revision History**

Version	Date	Author	Note
1.0	2020-09-15	Kenny YIN	Initial
1.1	2020-12-21	Kenny YIN	Updated the antenna image in Chapter 2.



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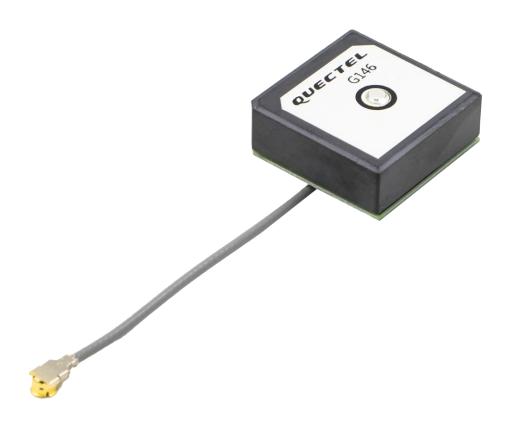
## **1 Product Description**

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	1560–1605 MHz (when covered with a radome on LNA ground plane)
Input Impendence	50
VSWR	-
Gain	Typ. 2.5 dBic
Polarization Type	R.H.C.P
LNA Electrical Properties	
Frequency Range	1560–1605 MHz (when covered with a radome on LNA ground plane)
Gain	19 ±3 dB (DC = 3.0 V)
Noise Figure	2 dB typ. (DC = 3.0 V)
Output VSWR	2.0 max (DC = 3.0 V)
Passband Ripple	≤ 1 dB
Voltage	DC 3.0 ±0.1 V
Current	4.5 ±1.5 mA
Impedance	50 Ω
Mechanical Specifications	
Antenna Size	18.4 mm × 18.4 mm × 8.86 mm
Casing	Ceramic
Radiator	Silver
Connector Type	IPEX I
Working Temperature	-40 °C to +85 °C
Radome Color	-

#### Notes:

- All value are defined at 25 ±15 °C, 65 ±20 % RH, power handling 1 μW, air pressure 960 ±100 hPa unless otherwise noted.
- Patch characteristics are measured with test ground plane in an anechoic chamber.



#### **4** Overall Performance

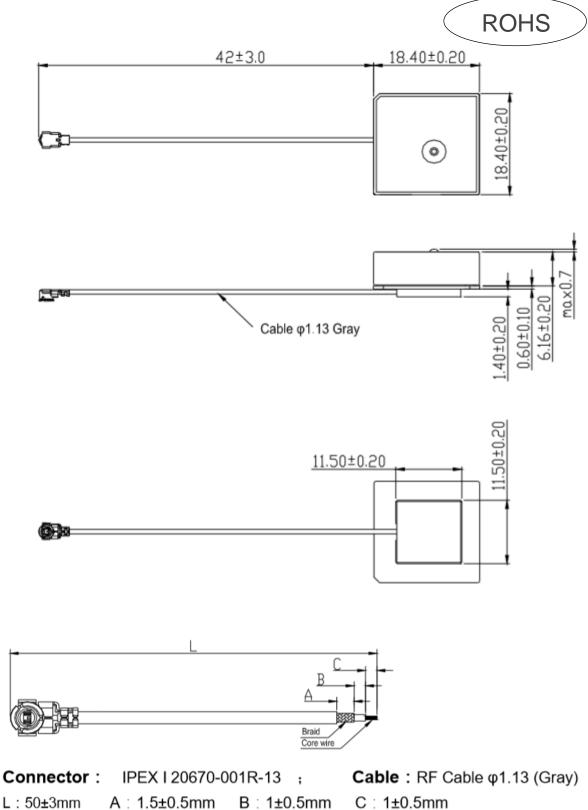
#### 4.1. Test Environment

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





#### 5 Product Size



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