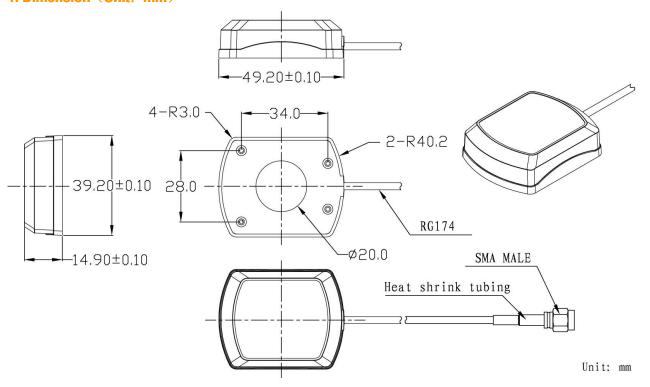
: PRODUCT GPS+Glonass antenna APG01/GL



- ➤ Size: 43x33x14mm
- > Cable RG174 5m / 3m / or others
- > Connector SMA / SMB / MCX / or others
- Housing Black or others
- Dieletric Antenna

PRODUCT FEATURE

1. Dimension (Unit: mm)



2. Electrical Characteristics

Dielectric Antenna		
Frequency	1575MHZ - 1610MHz	
Center Frequency	1590MHz	
V.S.W.R	1.5:1	
Band Width	50 MHz Min. at -10dB	
Impendence	50 ohm	
Peak Gain	5dBic Min/1575MHz 4dBic Min/1602~1616MHz	
Gain Coverage	≥- 4dBic at -90°~90°(over75% volume)	
Power Handling	1 watt	
Polarization	RHCP	

2.1 LNA/Filter

LNA Gain(Without cable)	32dB Typical
Noise Figure	1.5dB
V.S.W.R	2.0
DC Voltage	3.0V to 5.0V
DC Current	11mA Max

2.2 Mechanical

Weight Less than 110gram Size 44×38×13mm

Cable RG174, 3meters or other

Connector SMA(male)

Magnetic base

Housing Black

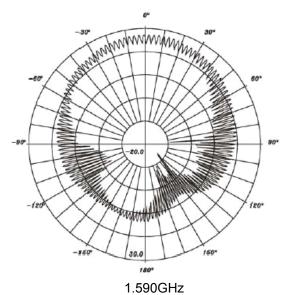
3. Reliability

Condition: Temperature: 40 ±5 °C

Load: DC=5V±0.5 V Quantity: 2000pcs Sustained Time: 480h GPS / GLONASS (Voltage: 3.3V)

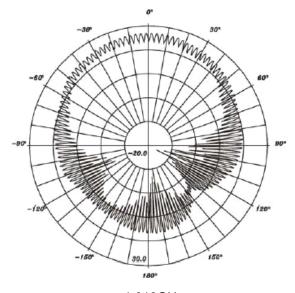
1.573GHz Gain:25.5dB

Ellipticity of polarization(AR):2.91

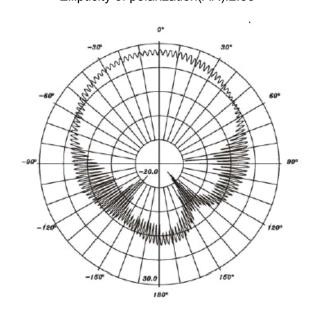


Gain:26.8dB

Ellipticity of polarization(AR):2.78



1.610GHz
Gain:27.1dB
Ellipticity of polarization(AR):2.56



5. Environmental Specifications

Condition:

Post Environmental Tolerance (Refer to the form 1)

Temperature range 25±3℃

Relative Humidity range 55~75%RH

Operating Temperature range -40°C~+85°C

Storage Temperature range -40°C~+100°C

5.1 Moisture Proof

The device should satisfy the electrical characteristics specified in form 1 after exposed to the temperature $40\pm2^{\circ}$ C and the relative humidity $90\sim95\%$ RH for 96 hours and $1\sim2$ hours recovery time under normal condition.

5.2 Vibration Resist

The device should satisfy the electrical characteristics specified in form 1 after applied to the vibration of 10 to 55Hz with amplitude of 1.5mm for 2 hours each in X , Y and Z directions.

5.3 Drop Shock

The device should satisfy the electrical characteristics specified in form 1 after dropping onto the hard wooden board from the height of 30cm for 3 times each facet of the 3 dimensions of the device.

5.4 High Temperature Endurance

The device should satisfy the electrical characteristics specified in form 1 after exposed to temperature 80 ± 5 °C for 24±2 hours and 1~2 hours recovery time under normal temperature.

5.5 Low Temperature Endurance

The device should also satisfy the electrical characteristics specified in form 1 after exposed to the temperature -40°C \pm 5°C for 24 \pm 2 hours and to 2 hours recovery time under normal temperature.

5.6 Temperature Cycle Test

The device should also satisfy the electrical characteristics specified in form 1 after exposed to the low temperature -25°C and high temperature +85°C for 30 ± 2 min each by 5 cycles and 1 to 2 hours recovery time under normal temperature.

6. Weatherproof

Put the antennas in 1m deep water for 12h, and find 100% waterproof.