

GPS/4G Antenna with Rubber Pad Specification

RY-GPS/4G-10



(I) Product Overview

(i) Dielectric Antenna

Center Frequency (MHz) : 1575.42±3

VSWR: 1.5:1

Bandwidth (MHz) : ±5

Impedance (Ω) : 50

Peak Gain >3dBi Based on 7cm×7cm ground plane

Gain Coverage >-4dBi at -90° <0 <+90° (over 75% Volume)

Polarization: RHCP

(ii) LNA/Filter

LNA Gain(Without Cable) : 28 dBi Typical

Noise Figure (dB) : 1.5

Filter Out Band Attenuation (f0=1575.42 MHz)

7dB Min f0+/-20MHz ;

20dB Min f0+/-50MHz;

30dB Min f0+/-100MHz

VSWR <2.0

DC Voltage (V) : 2.7/3.0/3.3/5.0/3.0 to 5.0 etc.

DC Current (mA) : 11 Max

(iii) **4G Antenna**

Center Frequency (MHz) : 850/900/1800/1900/2100/2300/2700

VSWR: 2.0:1

Impedance (Ω) : 50

Typical Gain: 2dBi

(iv) **Mechanical**

Weight (gram) <150

Size (mm) : Φ 75x16

Cable (m) : RG174 etc.

Connector : SMA/SMB/SMC/BNC/FME/TNC/MCX/MMCX etc.

Mounting: Screw(Hole/Roof) with Rubber Pad

Housing: Black

(v) **Environmental**

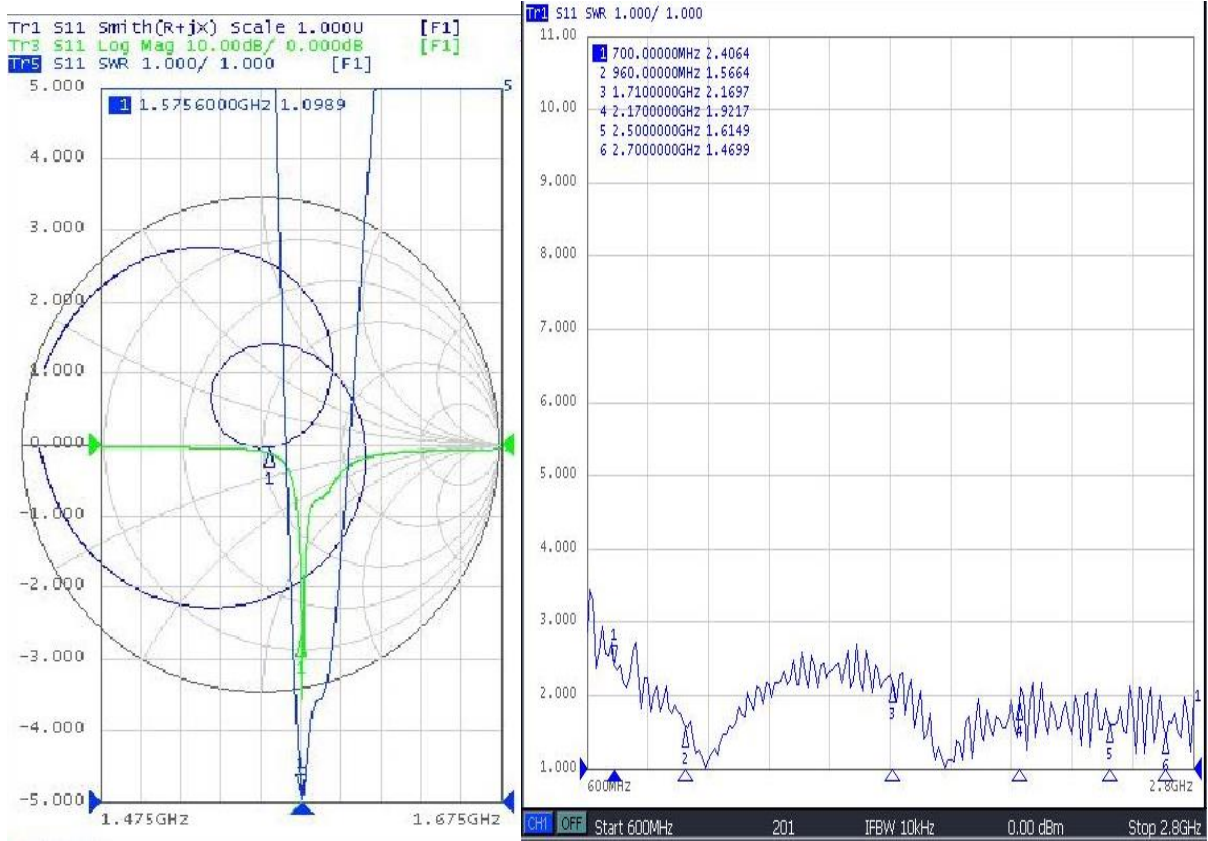
Working Temp: -40°C~+85°C

Storage Temp: -45°C~+100°C

Vibration: Sine sweep 1g(0-p)10~50~10Hz each axis

Humidity: Humidity95%~100%RH

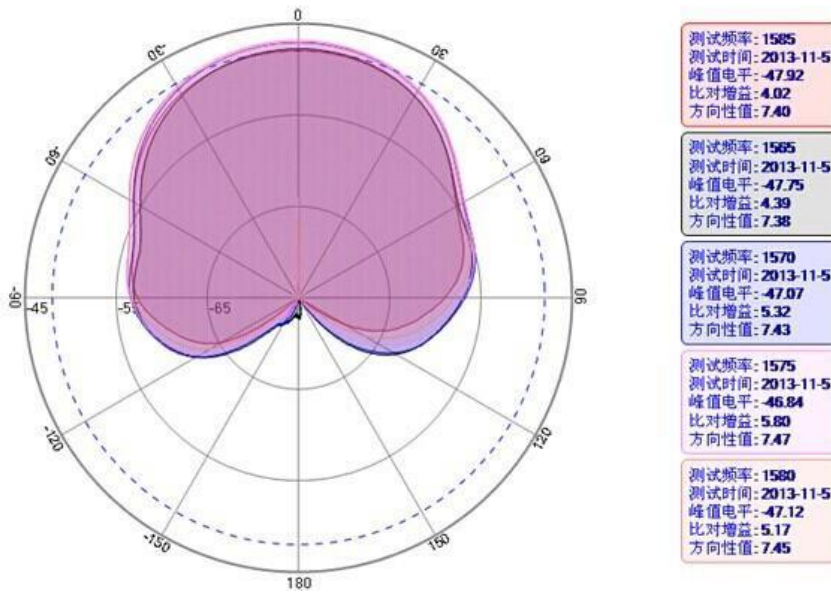
Weatherproof: 100%Waterproof



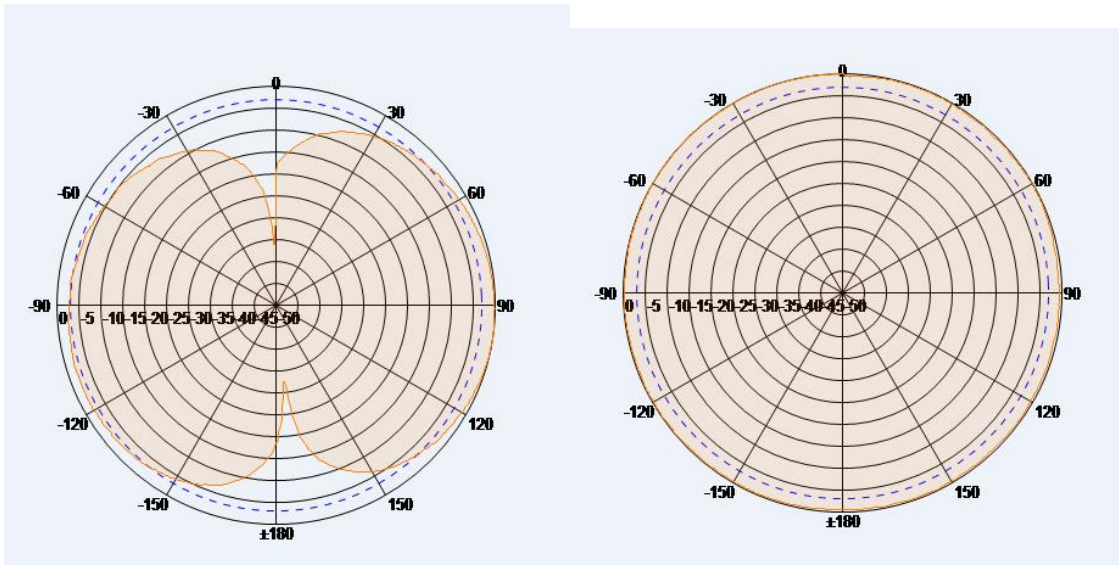
Radiation Pattern:

GPS:

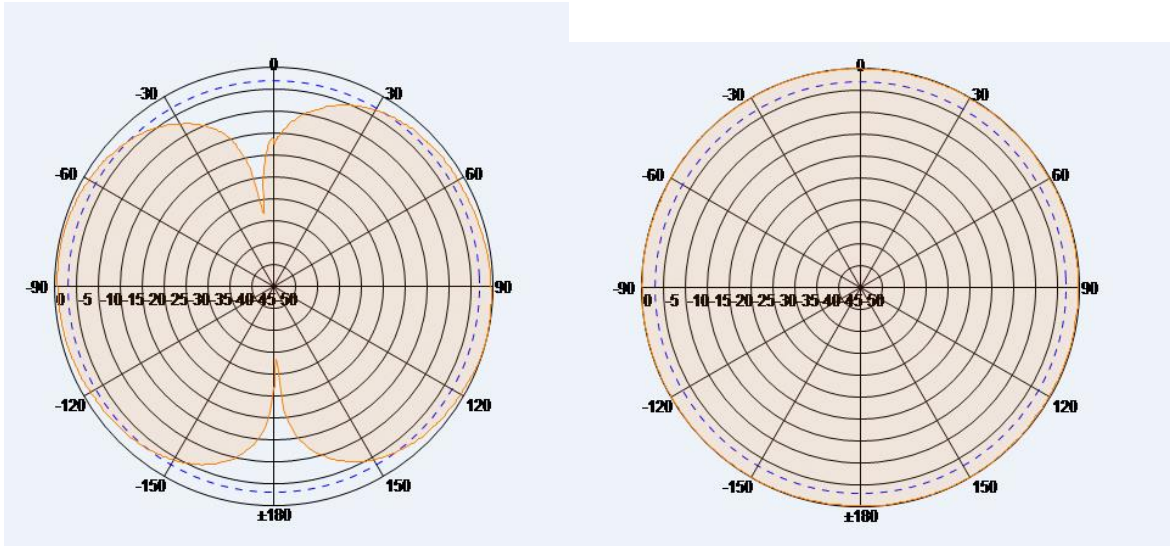
Patch Directional diagram



800-960MHZ:



1710-2500MHZ



2500-2700MHZ

