
GPS/2*LTE/WIFI Antenna Sepcification

(Model NO.: RY-GPS/2*LTE/WIFI-01)



Product Overview

(1) Dielectric Antenna GPS

Center Frequency (MHz): 1575.42

VSWR: 1.5:1

Bandwidth (MHz): ± 5

Impedance (Ω): 50

Peak Gain $> 3\text{dBi}$ Based on $7\text{cm} \times 7\text{cm}$ ground plane

Gain Coverage $> -4\text{dBi}$ at $-90^\circ < \theta < +90^\circ$ (over 75% Volume)

Polarization: RHCP

(2) 2*LTE Antenna

Center Frequency (MHz): 698-960/1710-2170/2500-2700

VSWR: 2.0:1

Impedance (Ω): 50

Typical Gain: $2\text{dBi} \pm 1\text{dBi}$ @ 850MHz ; $2\text{dBi} \pm 1\text{dBi}$ @ 900MHz

$1\text{dBi} \pm 1\text{dBi}$ @ 1800MHz; $1\text{dBi} \pm 1\text{dBi}$ @ 1900MHz; $2\text{dBi} \pm 1\text{dBi}$ @ 2100MHz

$3\text{dBi} \pm 1\text{dBi}$ @ 2600MHz

Power (W): 50

Polarization: Vertical

(3) **Wifi Antenna 2.4ghz**

Frequency (MHz): 2400-2500

VSWR \leq 1.5

Gain (dBi): 2.15

Impedance (Ω): 50

Power (W): 50

Polarization: Vertical

(4) **LNA/Filter For GPS**

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

(5) **Mechanical**

Weight (gram) $<$ 300

Size (mm): 107x86x17.5

Cable GPS (m): RG174 2 etc.

LTE (m): 2*RG174 2 etc.

Wifi (m): RG174 2 etc.

Connector GPS: SMA male etc.

LTE: 2*SMA male etc.

Wifi: SMA rp male etc.

Mounting: Screw(Hole/Roof)

Housing: Black

(6) **Environmental**

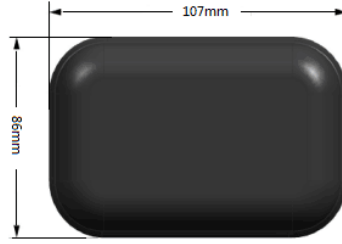
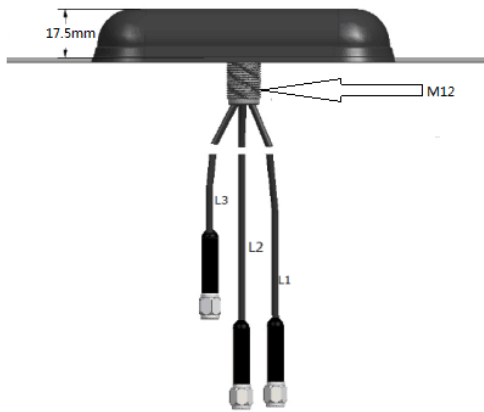
Working Temp: -40°C~+85°C

Storage Temp: -45°C~+100°C

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

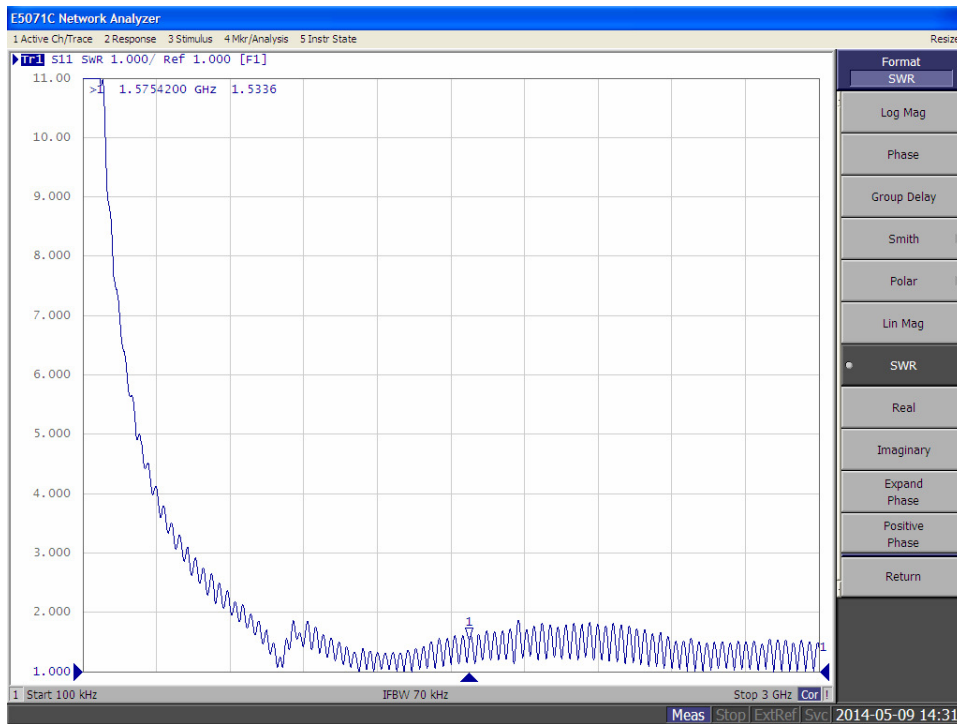
Humidity: Humidity95%~100%RH

Weatherproof: 100%Waterproof

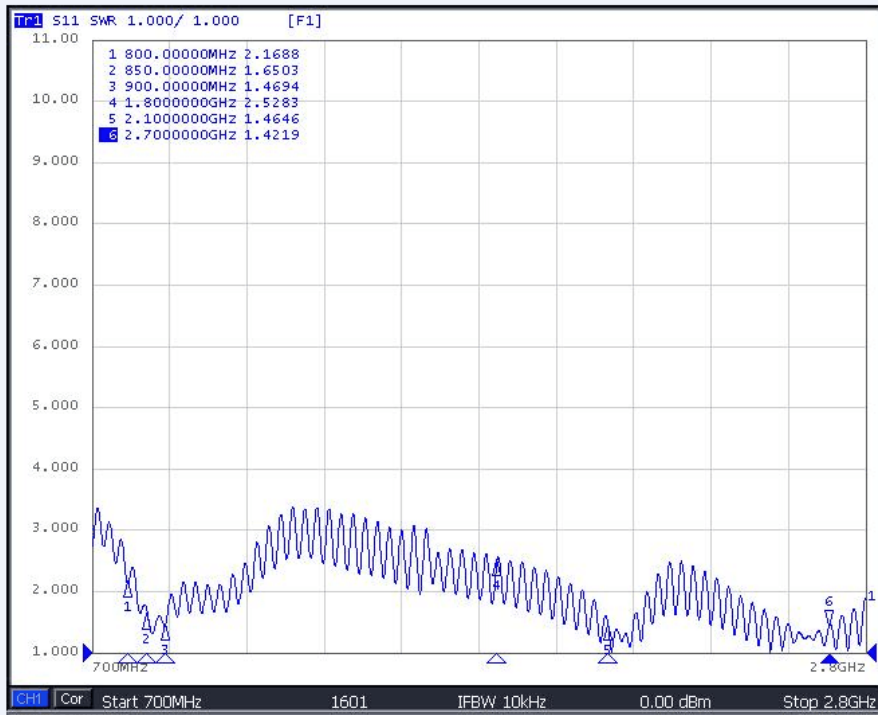


VSWR

GPS



LTE



WIFI 2.4GHZ

