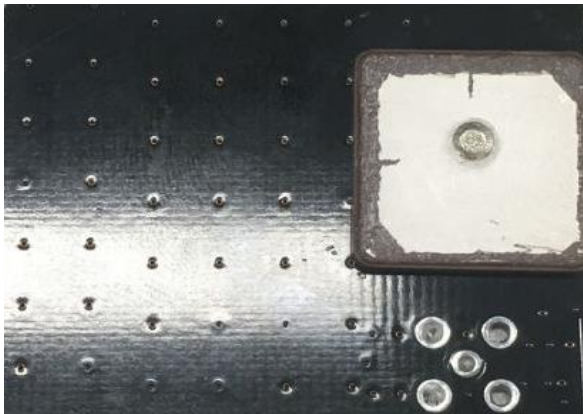
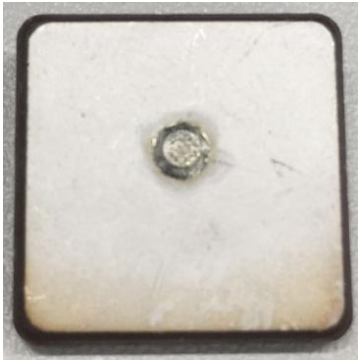




SUNNYWAY



SWG021

PN: SW20292IA93

Features

- Antenna for 1575.42MHz、1602MHz.
- High gain.
- Impedance 50 Ohm.

Applications:

- Solution for global public constellations:
GPS/GLONASS/GALILEO.

1. Electrical Specifications

Standards	GPS/GLONASS/GALILEO	
Frequency range (MHz)	1575.42	1602
Peak Gain (dBi)	2.5	3.1
Average Gain (dB)	-3.2	-3.2
VSWR	1.1	1.2
Return Loss	22.5	18.0
Efficiency (%)	47.4	48.1
Polarization mode	RHCP	
Radiation pattern	Hemispherical	
Output impedance (Ω)	50	
Ground plane (mm)	35x45	

Note: All parameters are measured with Sunnyway's EVK which size is 35*45mm

2. Mechanical and Environmental Specification

Mounting Type	Adhesive
Adhesive Type	3M9448A
Connector Type	Welding
Antenna size(mm)	18mm (L) x18 mm (W) x 2mm (H)
Material	Ceramic
Operating Temperature (°C)	-40 °C ~ +85 °C
Storage Temperature(°C)	-40 °C ~ +85 °C

3. Antenna parameters

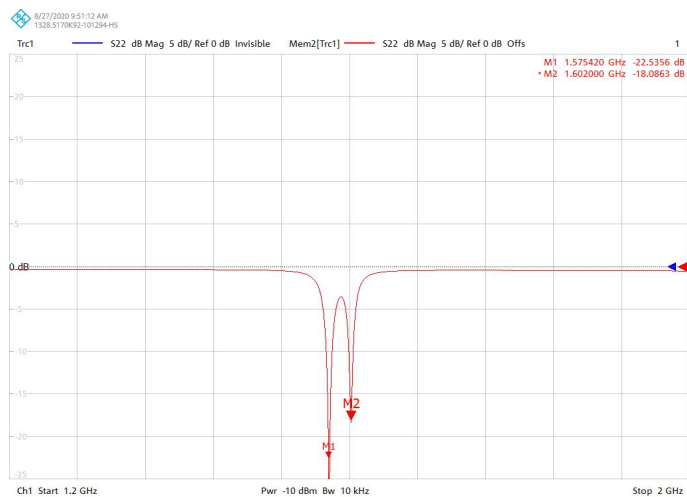
3.1 General Data

FRE (MHz)	1575.42	1602
VSWR	1.1	1.2
Return Loss	-22.5	-18.0
Eff (%)	47.4	48.1
Average Gain(dB)	-3.2	-3.2

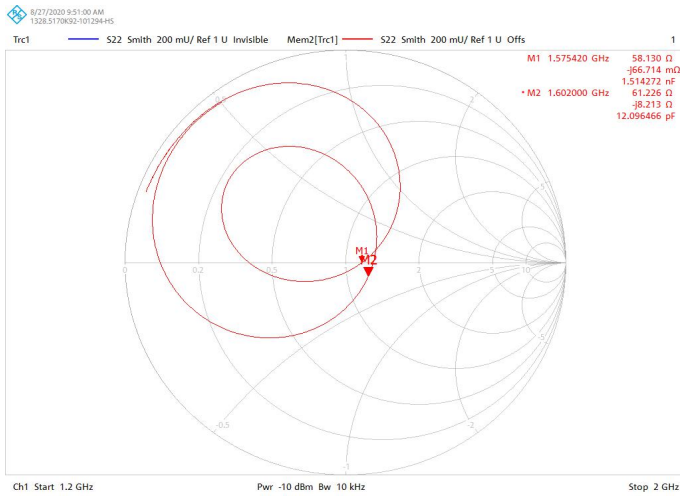
3.2 VSWR



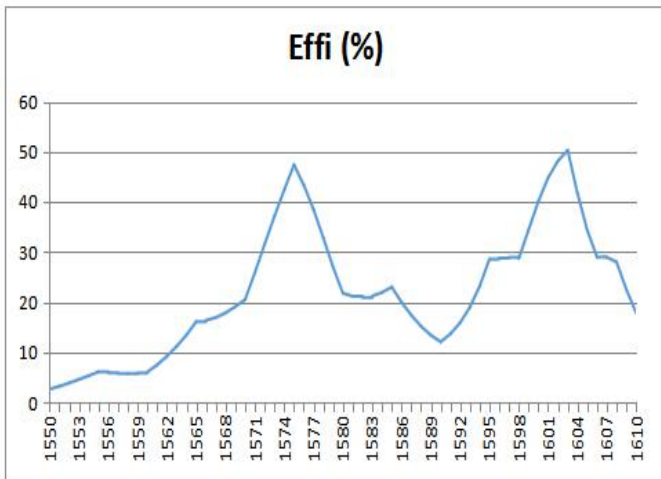
3.3 Return Loss



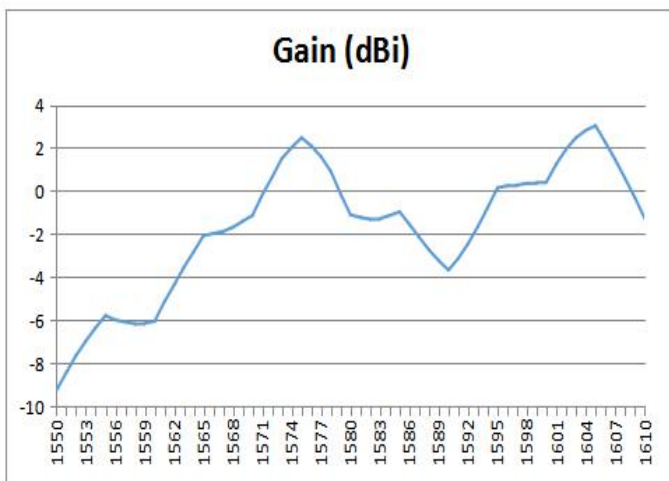
3.4 Smith



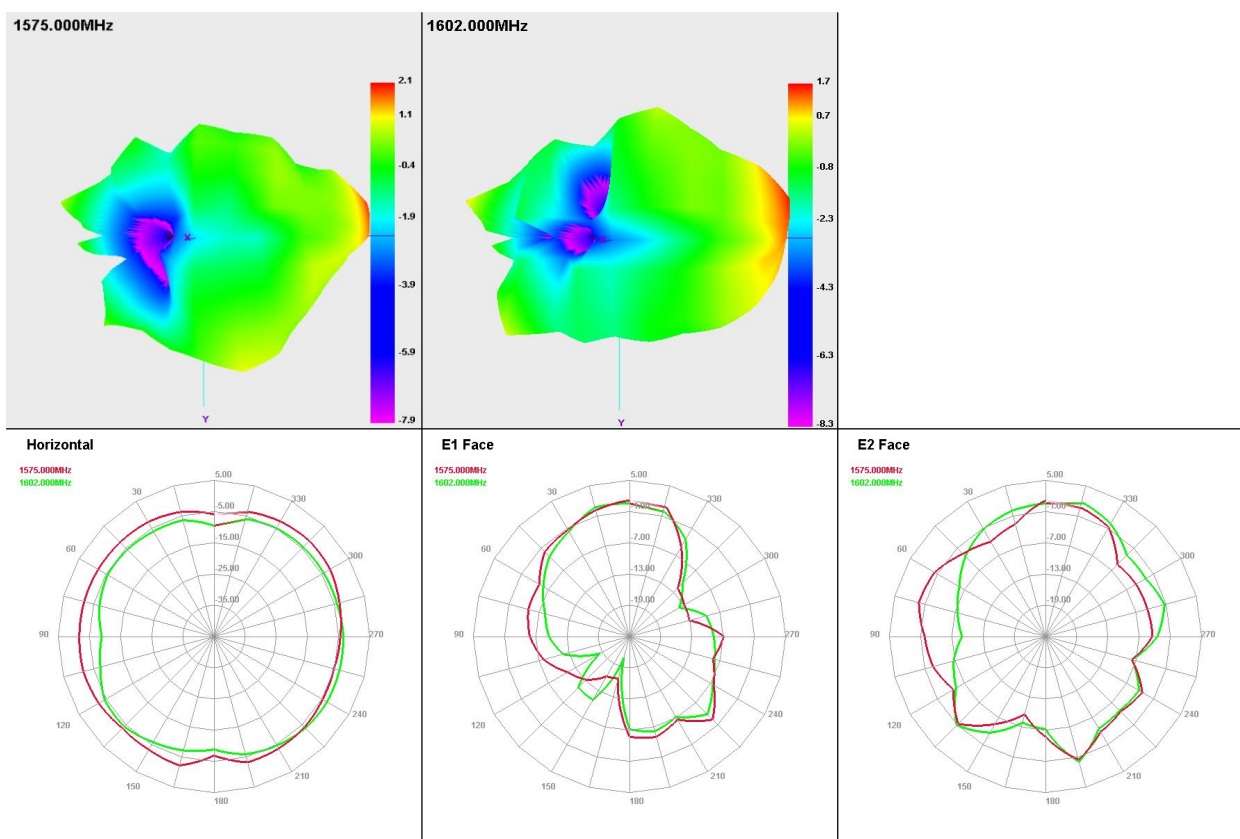
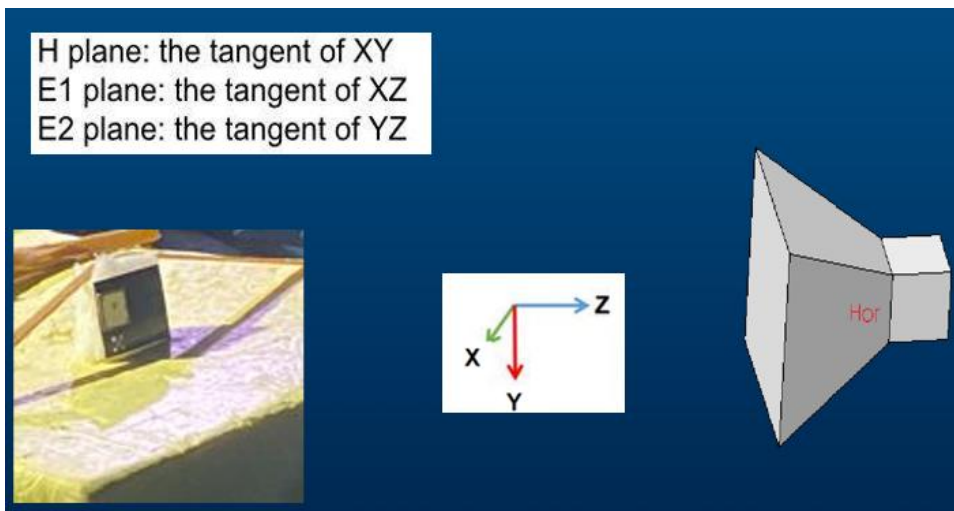
3.5 Efficiency



3.6 Gain

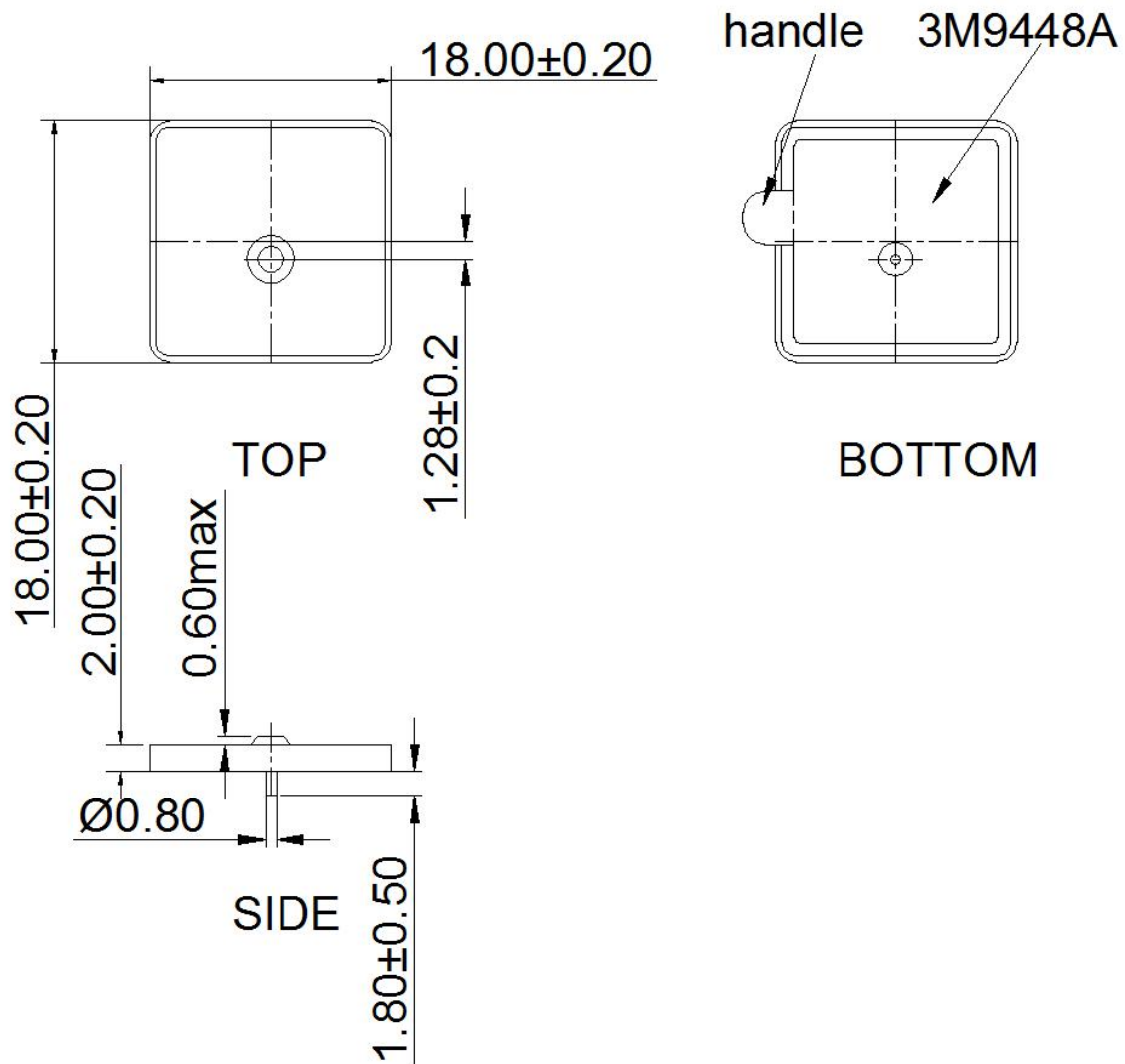


3.7 Directional Pattern





4. Antenna Drawing



Evaluation Board(unit:mm)

