SWD016

PN: SW20278IA93



Features:

- Frequency bands: 1575.42/1602MHz.
- Ceramic patch antenna.
- 2.5dBi+ GPS/GLONASS/GALILEO.
- Impedance 50 ohm.
- Size: 18.0 x 18.0 x 4.0mm.

Applications:

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

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1. Electrical Specifications

Standards	GPS/GLONASS/GALILEO	
Frequency range(MHz)	1575.42MHz	1602MHz
Peak Gain (dBi)	2.7	2.5
Average Gain (dB)	-1.8	-2.0
VSWR	1.09	1.46
Return Loss (dB)	-26.95	-14.50
Efficiency (%)	66.5	63.5
Polarization mode	RHCP	
Output impedance (Ω)	50	
Ground plane (mm)	50x50	

Note: All parameters are measured with Sunnyway's EVK which size is 50*50mm

2. Mechanical and Environmental Specification

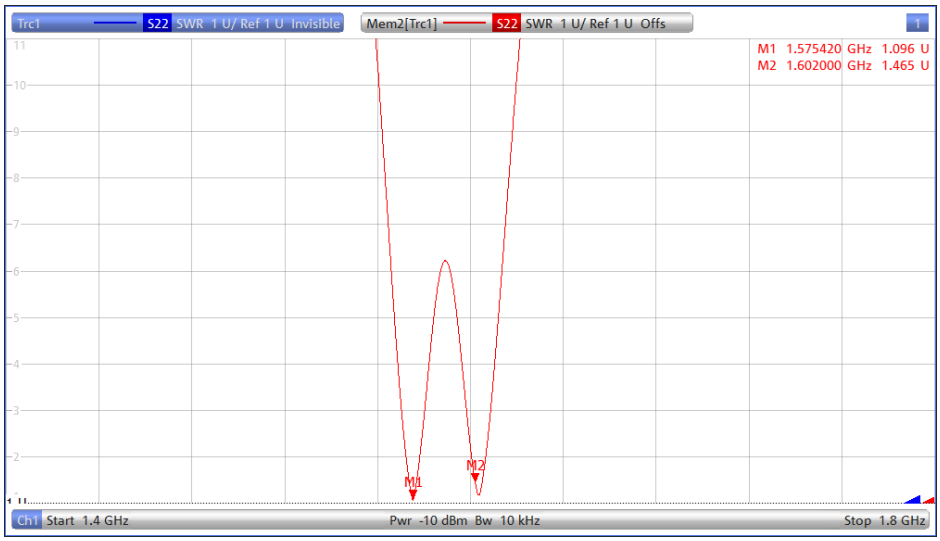
Mounting Type	SMD
Adhesive Type	/
Connector Type	/
Antenna size(mm)	18mm (L) x18mm (W) x 4mm (H)
Material	Ceramic
Operating Temperature (˚C)	-40 ˚C ~ +85 ˚C
Storage Temperature(˚C)	-40 ˚C ~ +85 ˚C

3. Antenna parameters

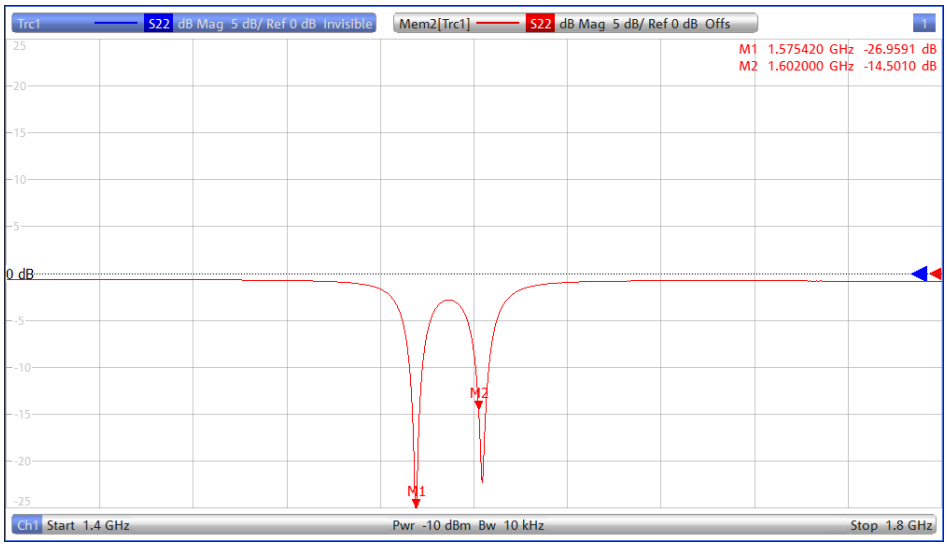
3.1 General Data

FRE (MHz)	1575.42	1602
VSWR	1.09	1.46
Return Loss **(dB)**	-26.95	-14.50
Eff (%)	66.5	63.5
Average Gain(dB)	-1.8	-2.0

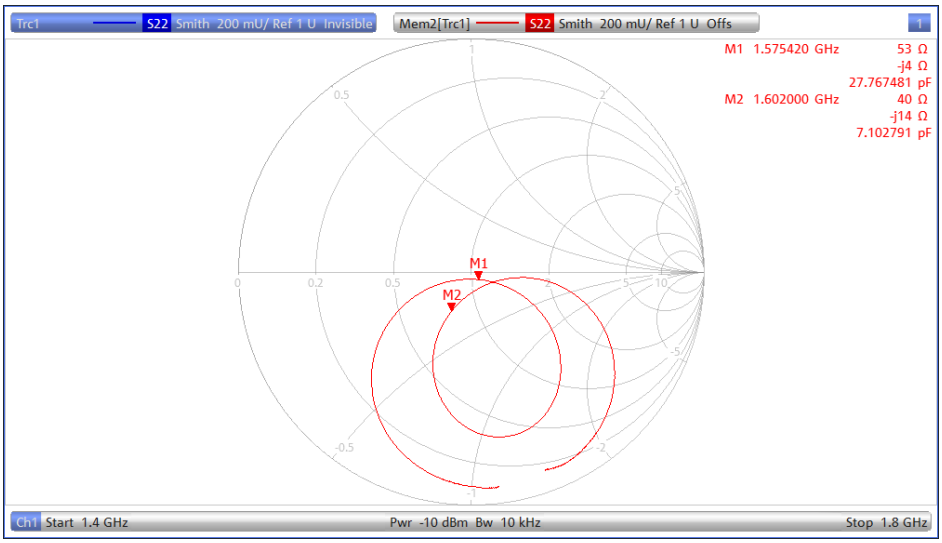
3.2 VSWR



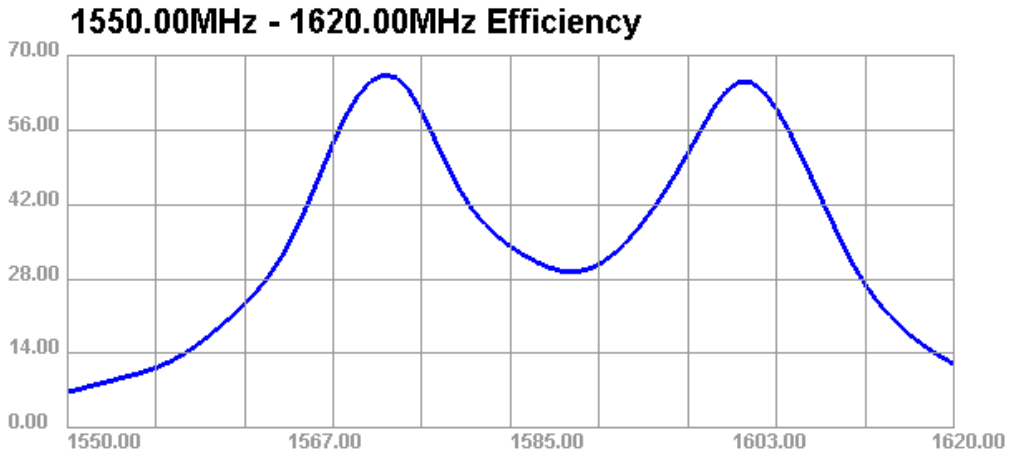
3.3 Return Loss



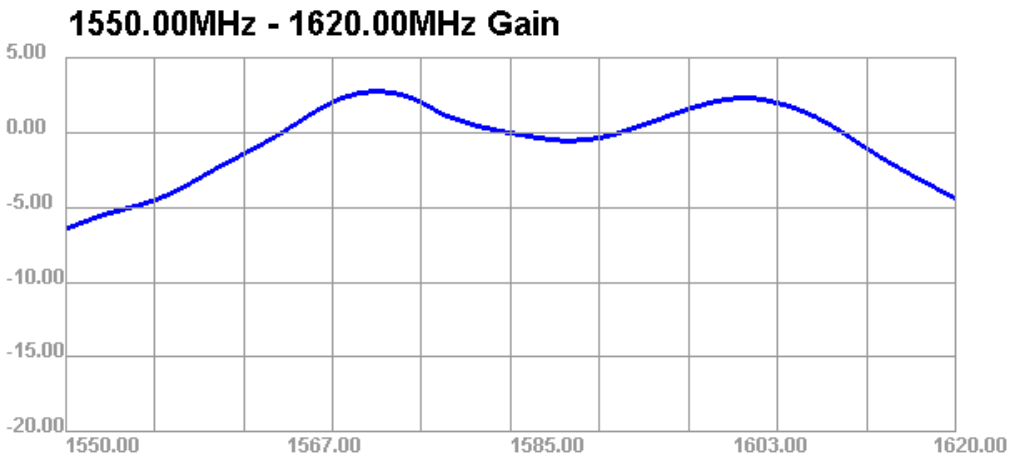
3.4 Smith



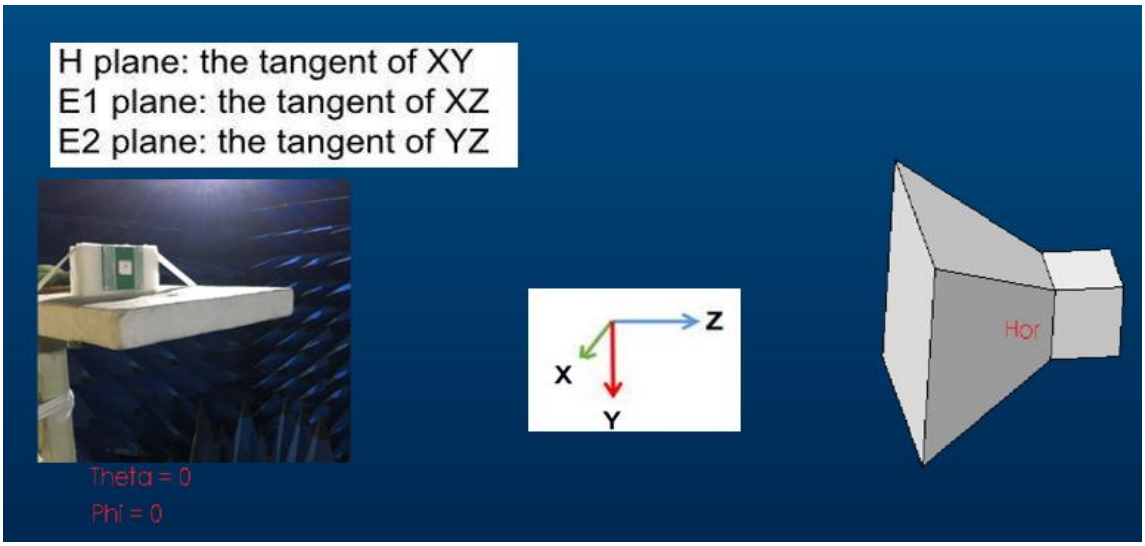
3.5 Efficiency

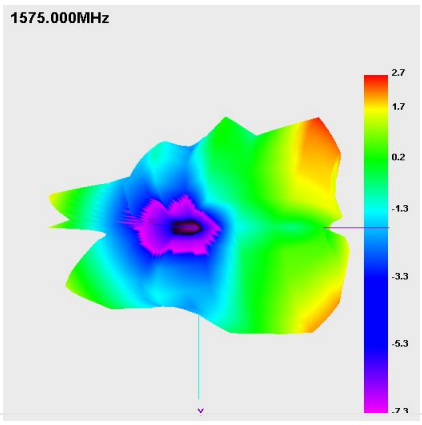


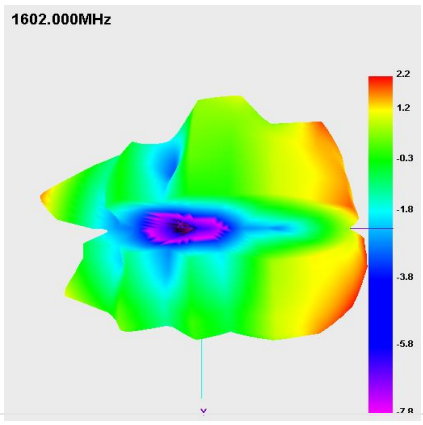
3.6 Gain

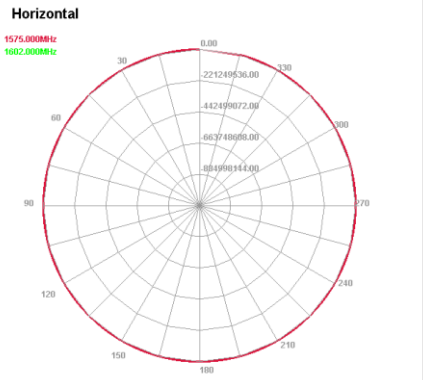


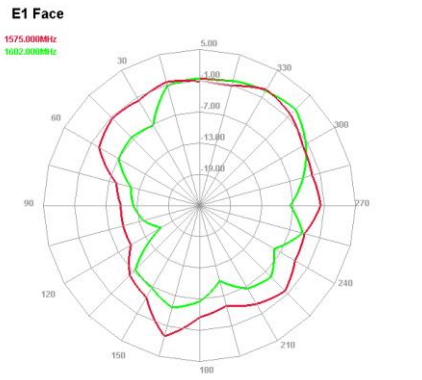
3.7 Directional pattern

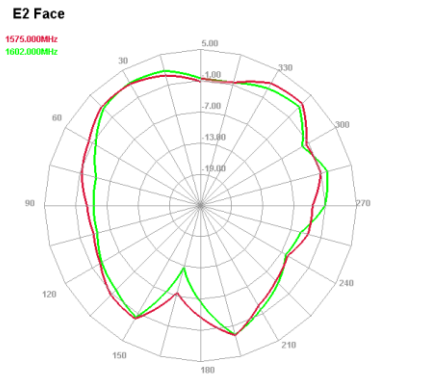




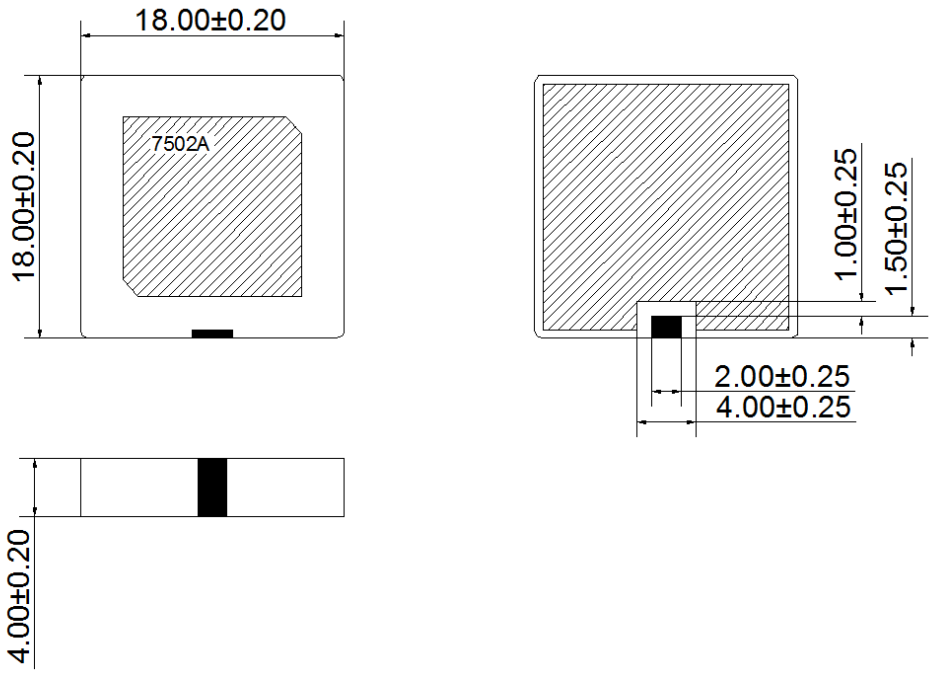








4.Antenna Drawing



Evaluation Board (unit: mm)

