SWG018

PN: SW20265IB93



Features:

- Frequency bands : 1561/1575.42/1602MHz.
- Ceramic patch antenna.
- 4dBi+ GPS/GLONASS/GALILEO/BEIDOU.
- Impedance 50 Ohm .
- Size 25.0 x 25.0 x 4.0mm .

Applications:

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

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1. Electrical Specifications

Standards	GPS/GLONASS/GALILEO/BEIDOU		
Frequency range(MHz)	1561MHz	1575.42MHz	1602MHz
Peak Gain (dBi)	4.8	5.0	4.7
Average Gain (dB)	-1.5	-1.4	-1.0
VSWR	1.8	1.9	1.5
Return Loss	-10.6	-10.0	-12.9
Efficiency (%)	71.2	73.2	79.0
Polarization mode	RHCP		
Radiation pattern	Hemispherical		
Output impedance (Ω)	50		
Ground plane (mm)	70x70		

Note: All parameters are measured with Sunnyway's EVK which size is 70*70mm

2. Mechanical and Environmental Specification

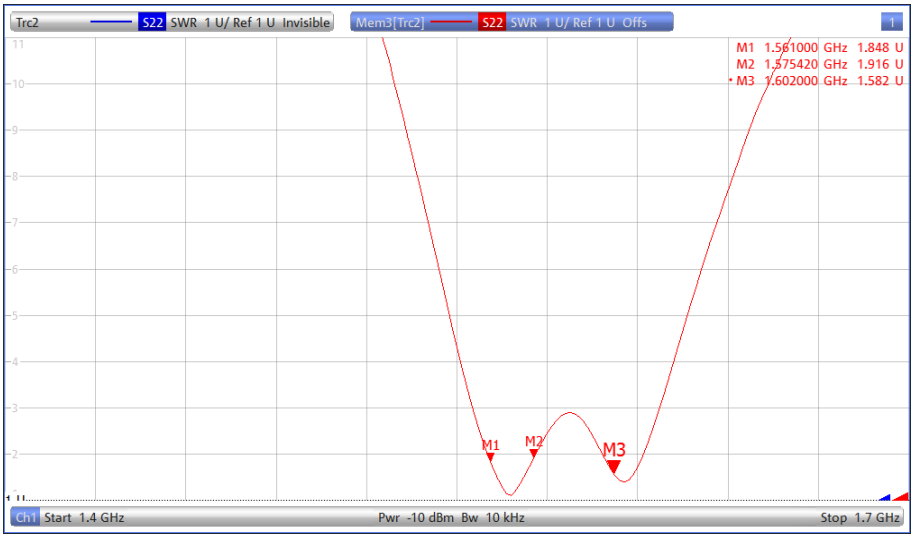
Mounting Type	Adhesive
Adhesive Type	3M9448A
Connector Type	Welding
Antenna size(mm)	25mm (L) x25 mm (W) x 4mm (H)
Material	Ceramic
Operating Temperature (˚C)	-40 ˚C ~ +85 ˚C
Storage Temperature(˚C)	-40 ˚C ~ +85 ˚C

3. Antenna parameters

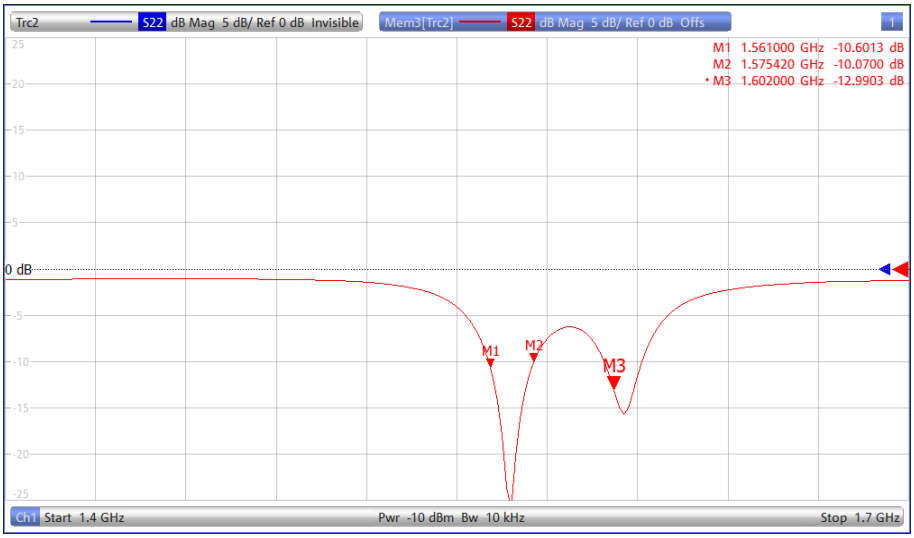
3.1 General Data

FRE (MHz)	1561	1575.42	1602
VSWR	1.8	1.9	1.5
Return Loss	-10.6	-10.0	-12.9
Eff (%)	71.2	73.2	79.0
Average Gain(dB)	-1.5	-1.4	-1.0

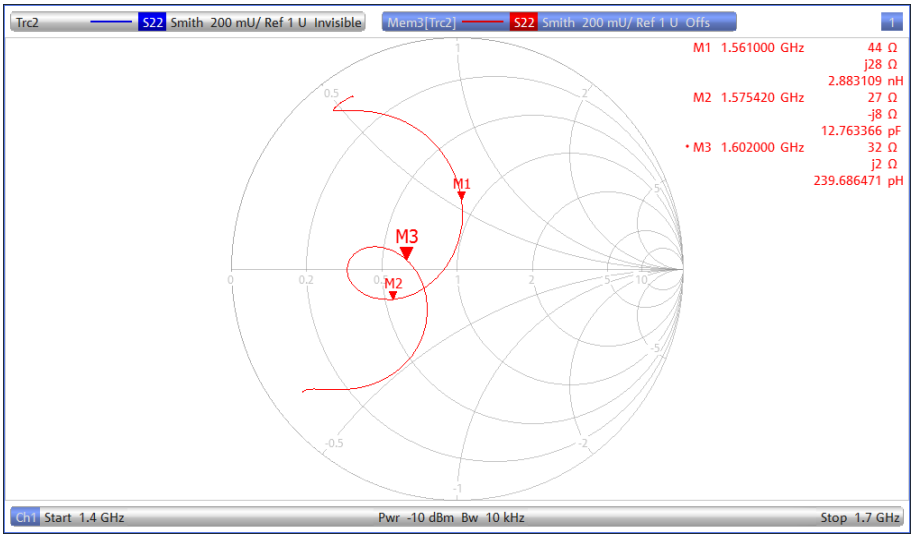
3.2 VSWR



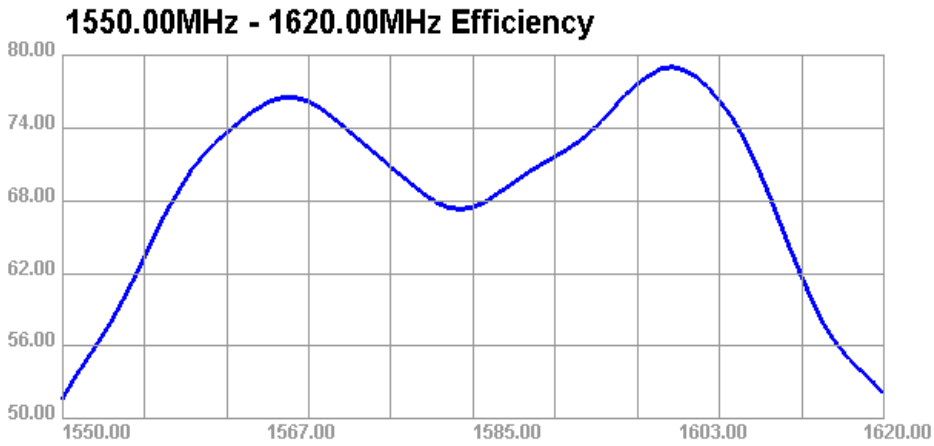
3.3 Return Loss



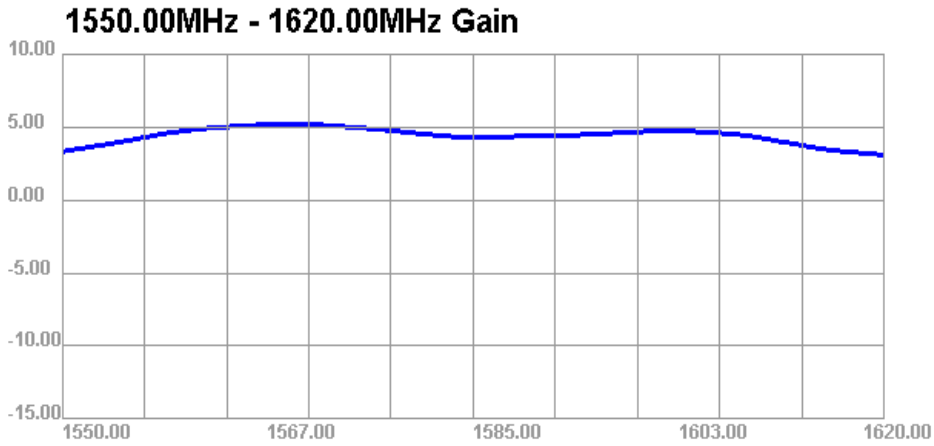
3.4 Smith



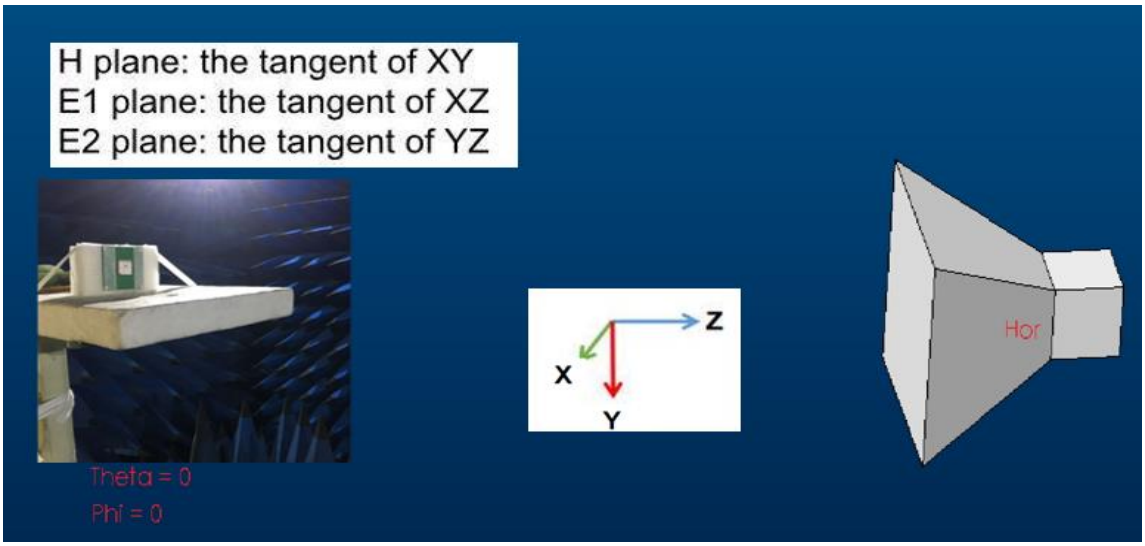
3.5 Efficiency

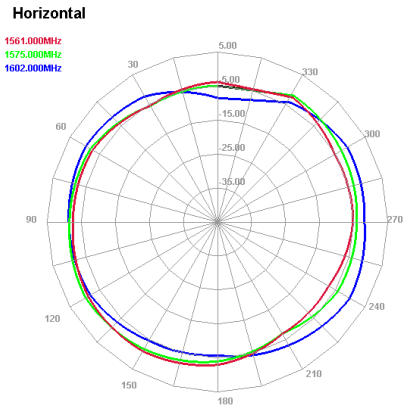


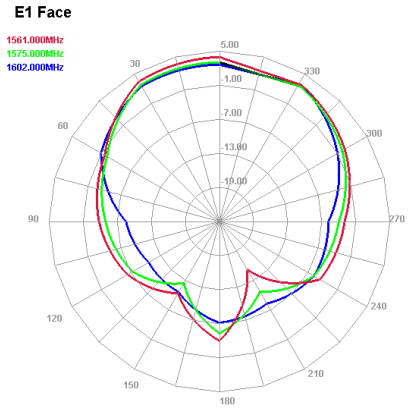
3.6 Gain

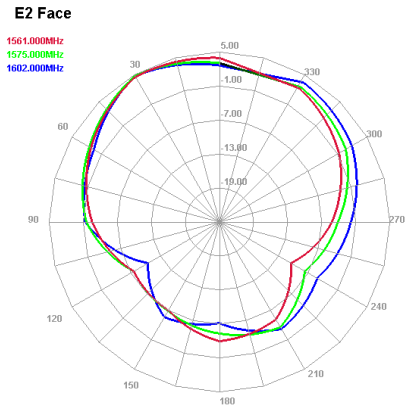


3.7 Directional pattern

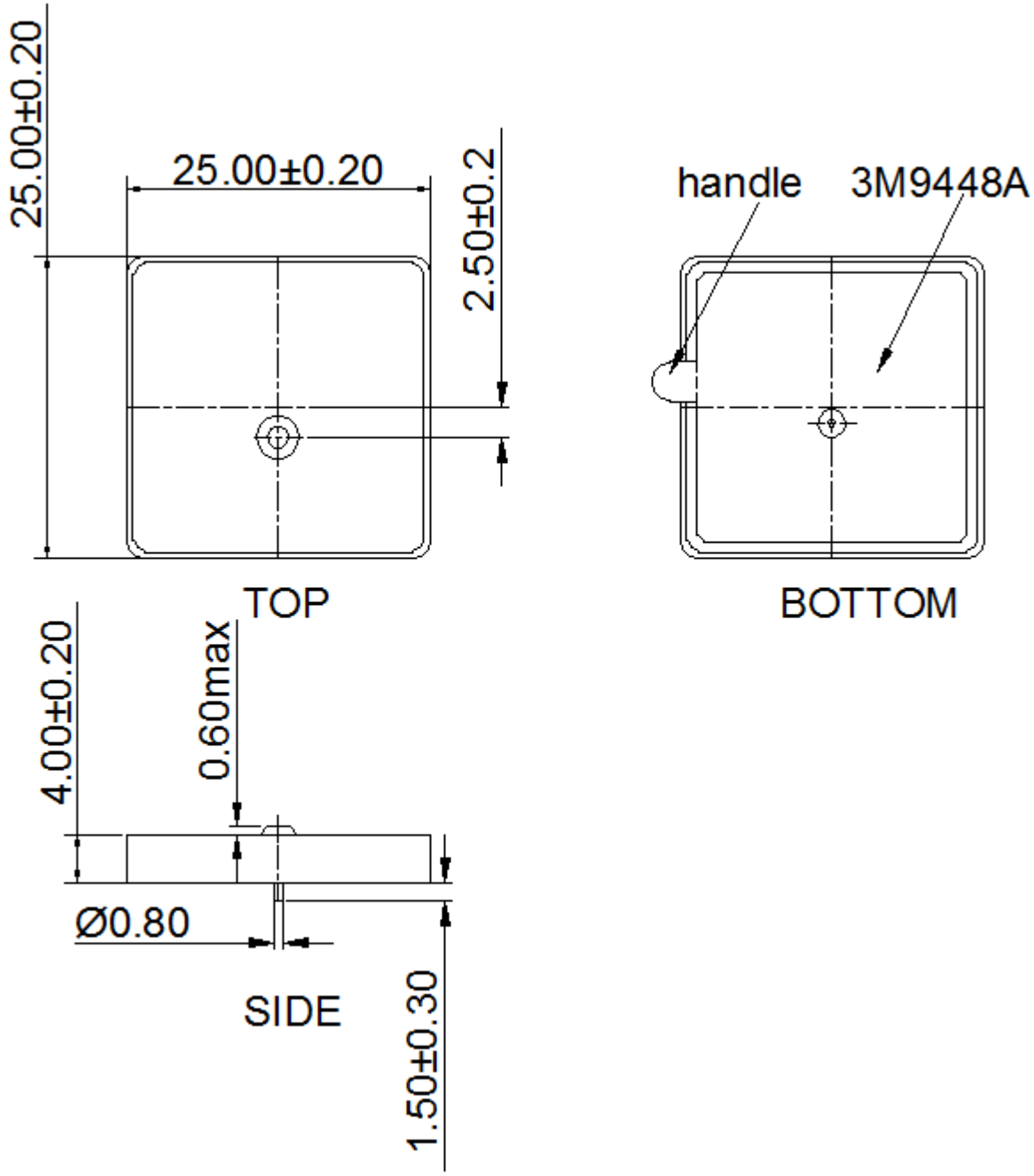








4.Antenna Drawing



Evaluation Board (unit: mm)

