

SWG017

PN: SW20264IB93

Features:

- Frequency bands: 1575.42MHz,1602MHz,1608MHz.
- 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.



1. Electrical Specification

Standards	GPS/GLONASS/GALILEO/BEIDOU		
Frequency range(MHz)	1575.42	1602	1608
Peak Gain (dBi)	5.2	4.3	4.0
Average Gain (dB)	-1.0	-1.0	-1.4
VSWR	1.3	1.3	1.3
Return Loss	-17.4	-16.4	-15.9
Efficiency (%)	79.1%	79.6%	73.1%
Polarization mode	RHCP		
Radiation pattern	Hemispherical		
Output impedance (Ω)	50		
Ground plane (mm)	70x70		

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

2. Mechanical and Environmental Specification

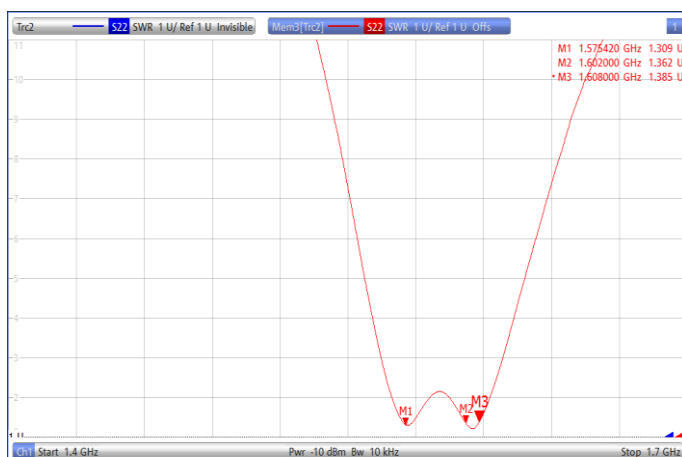
Mounting Type	Adhesive
Adhesive Type	NITTO5000NS
Connector Type	Welding
Antenna size(mm)	25mm (L) x25 mm (W) x 4mm (H)
Material	Ceramic
Operating Temperature (°C)	-40 °C ~ +85 °C
Storage Temperature(°C)	-40 °C ~ +85 °C

3. Antenna parameters

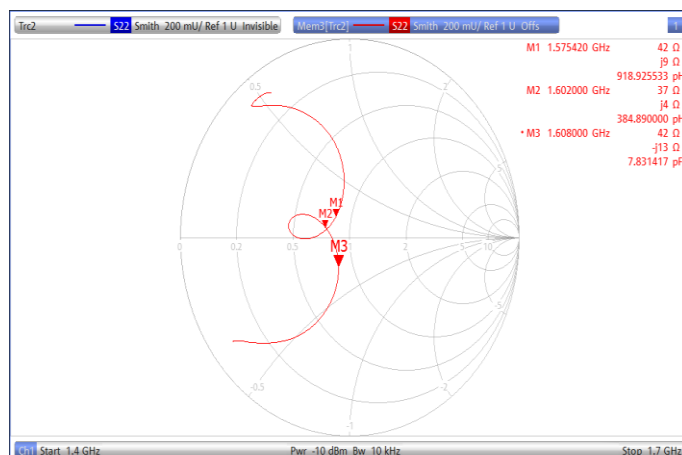
3.1 General Data

FRE (MHz)	1575.42	1602	1608
VSWR	1.3	1.3	1.3
Return Loss	-17.4	-16.4	-15.9
Eff (%)	79.1	79.6	73.1
Average Gain(dB)	-1.0	-1.0	-1.4

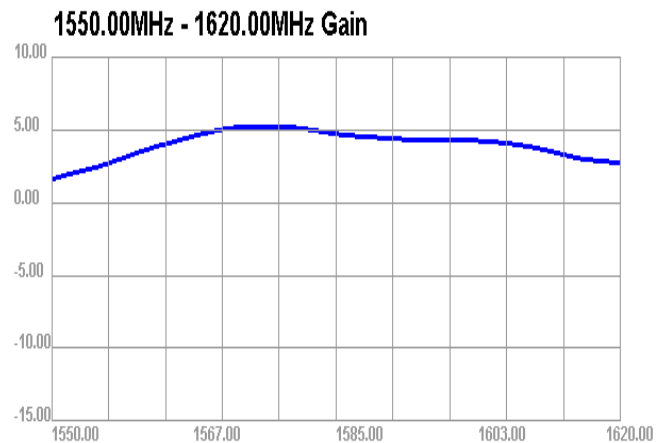
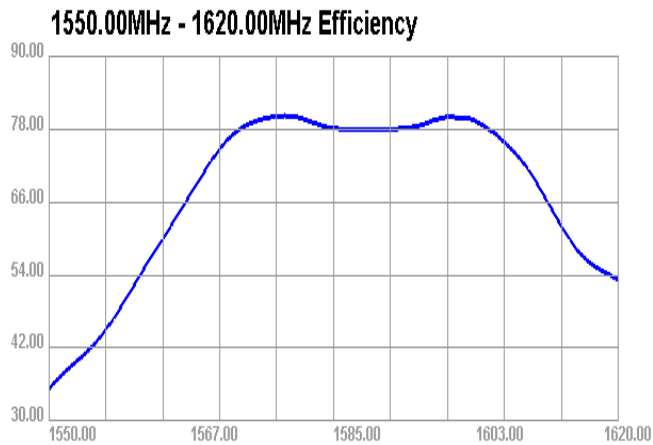
3.2 VSWR and Return Loss



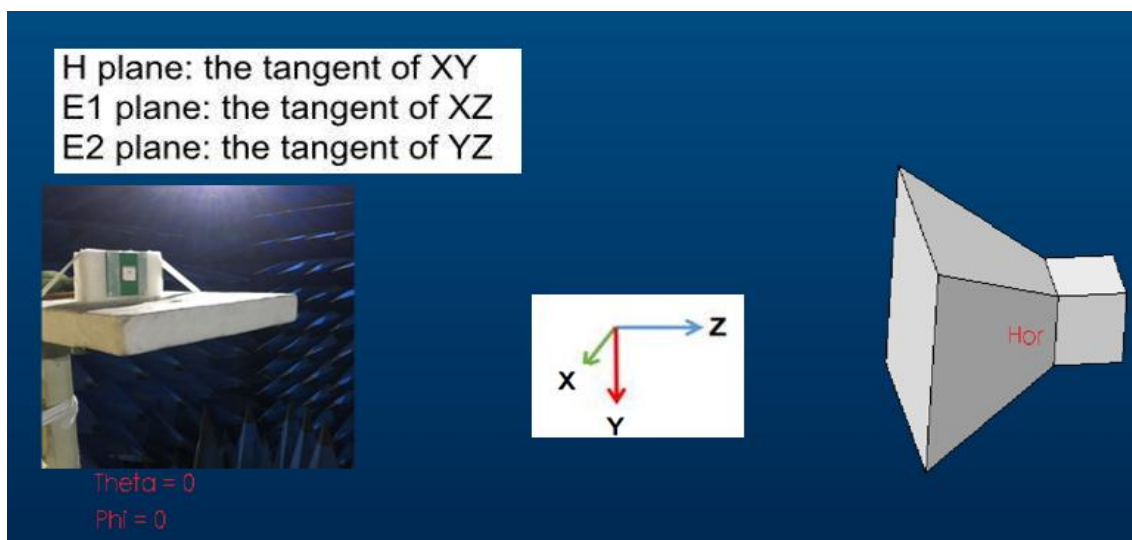
3.3 Smith



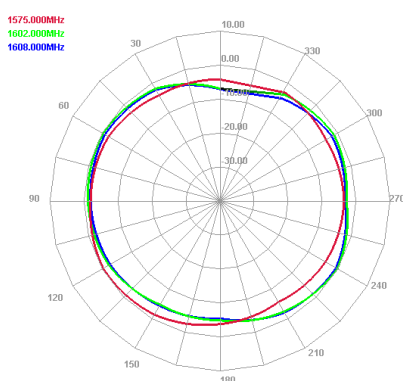
3.4 Efficiency and Gain



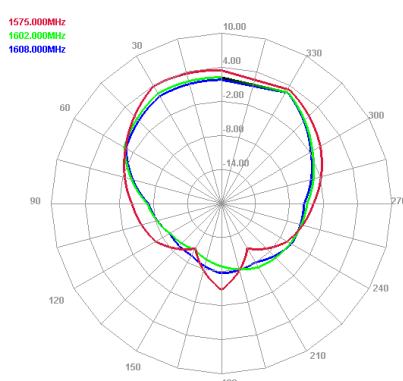
3.5 Directional pattern



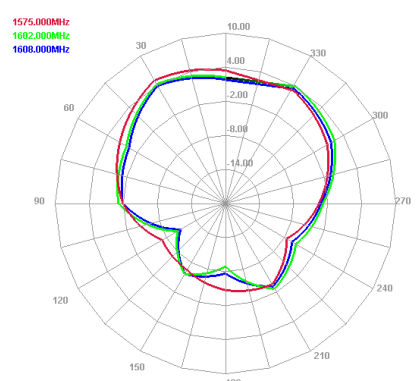
Horizontal



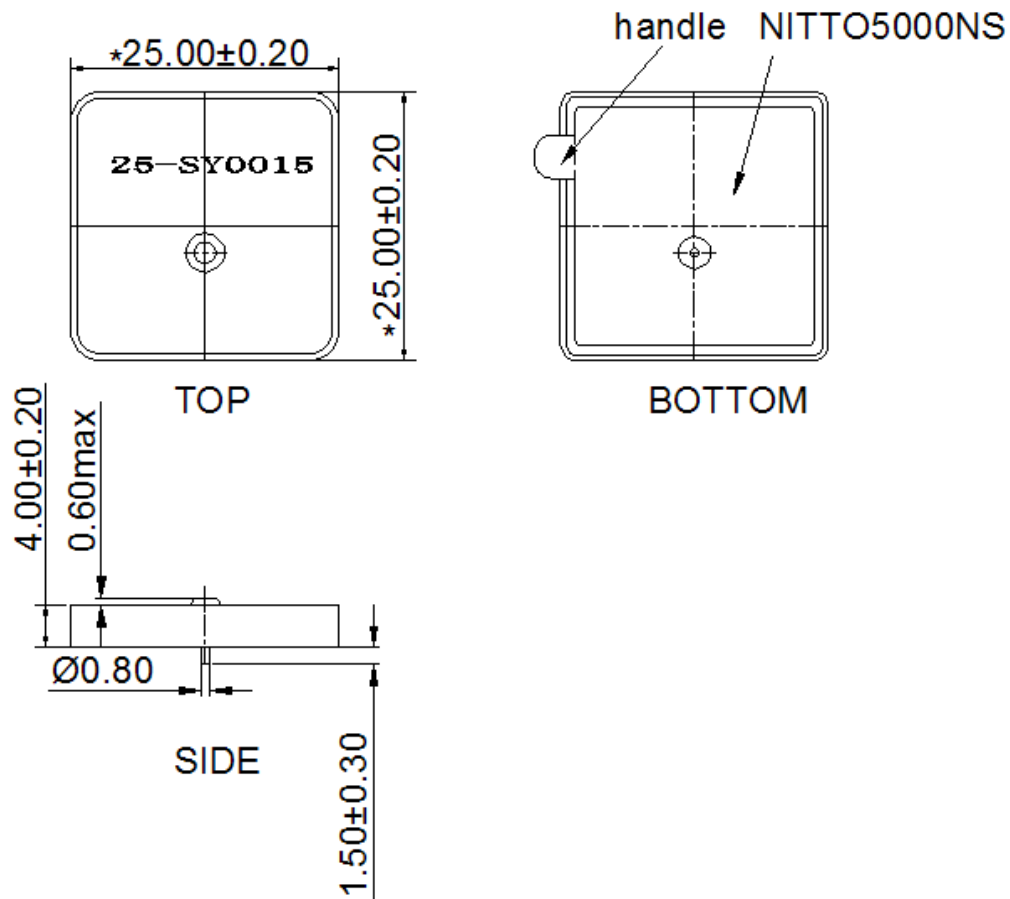
E1 Face



E2 Face



4. Antenna Drawing (Unit:mm)



Evaluation Board (unit: mm)

