SUNNYWAY

SWG013

PN: SW20020IB93



Sunnyway Technology

Add: Building 65-302, No.421 Hongcao Road, Xuhui District, Shanghai
Tel: +86-021-6484 2326 Fax: +86-021-6484 2328
Email: sales@sunny-way.com Web: www.sunny-way.com

1. Electrical Specifications

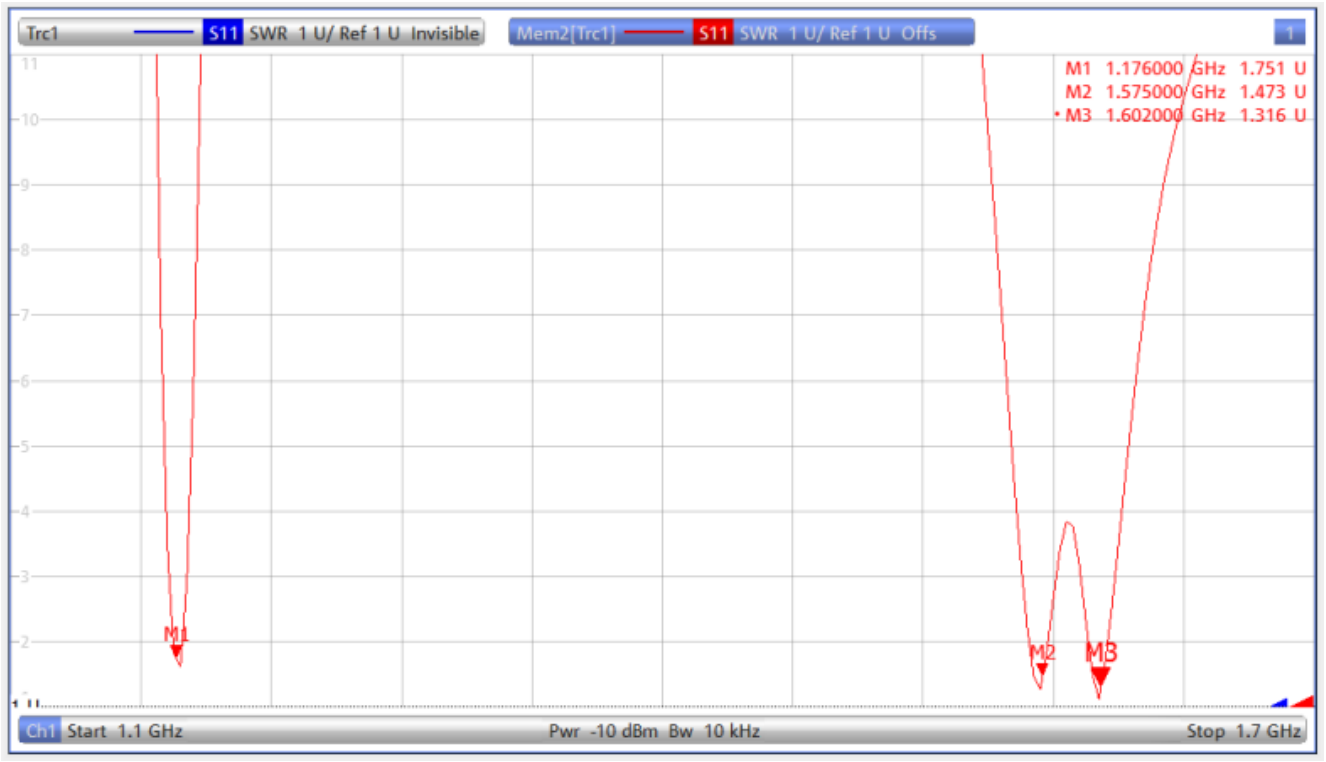
Standards	L1+L5 GNSS	
Frequency range (MHz)	1176.45MHz	1575.42MHz
Peak Gain (dBi)	2.13dB	-0.23dBi
Average Gain (dB)	-4.96dB	-5.57dB
VSWR	1.75	1.47
Return Loss	-11.34	-15.68
Efficiency (%)	31.9%	27.7%
Polarization mode	Circular polarization	Circular polarization
Radiation pattern	Hemispherical	Hemispherical

2. Mechanical and Environmental Specification

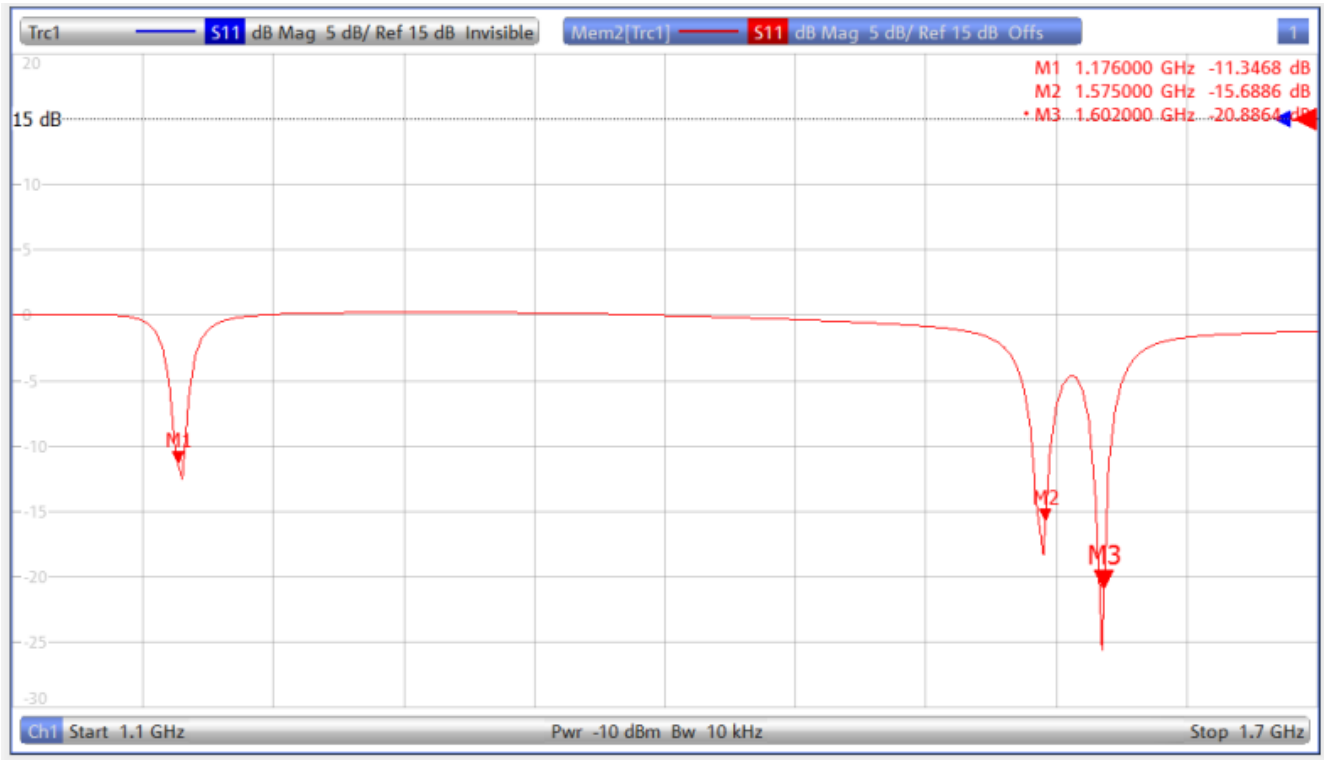
Mounting Type	SMD + Adhesive
Adhesive Type	NITTO5000NS
Connector Type	Welding
Antenna size(mm)	25mm (L) x25 mm (W) x 4mm (H) 18mm (L) x18 mm (W) x 2mm (H)
Material	Ceramic
Operating Temperature (˚C)	-40 ˚C ~ +85 ˚C
Storage Temperature(˚C)	-40 ˚C ~ +85 ˚C

3. Antenna parameters

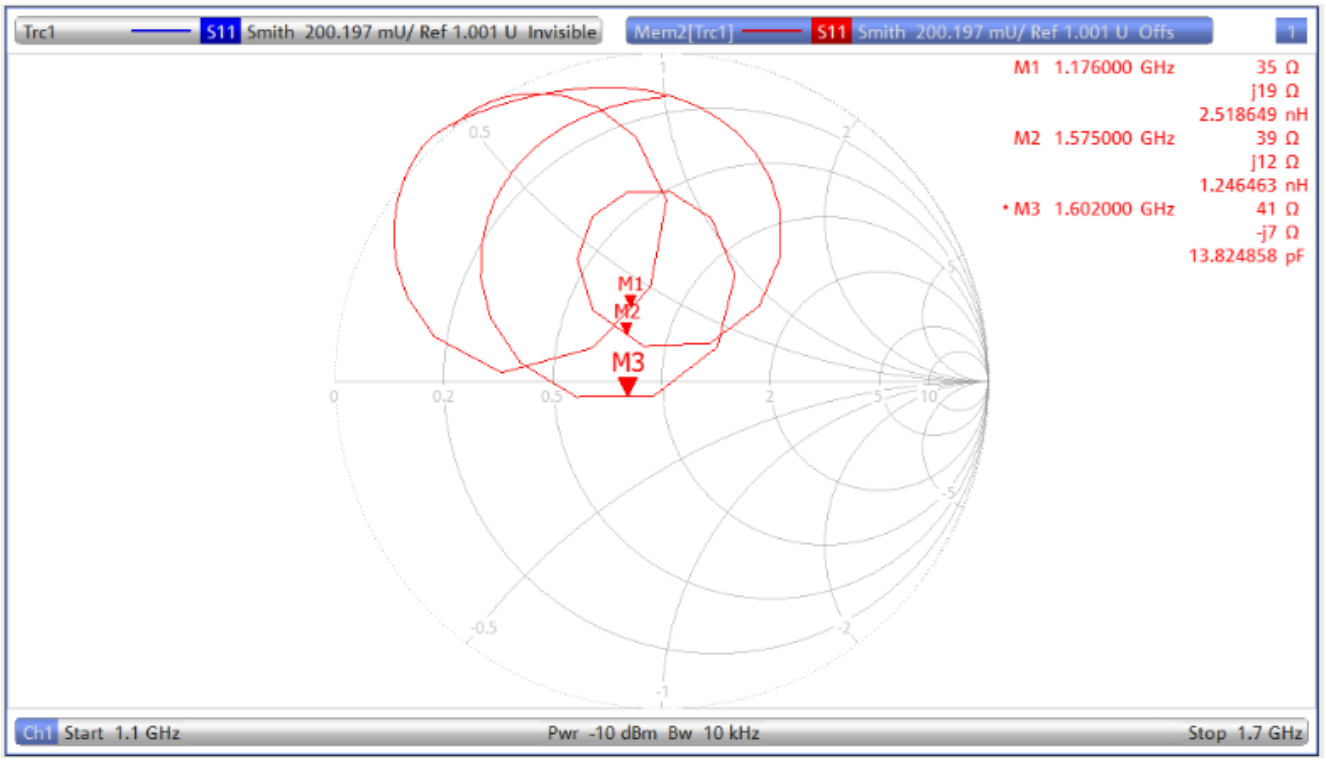
FRE (MHz)	1176	1575
VSWR	1.75	1.47
Return Loss	-11.34	-15.68
Eff (%)	31.9	27.7
PEAK Gain (dBi)	2.13	-0.23



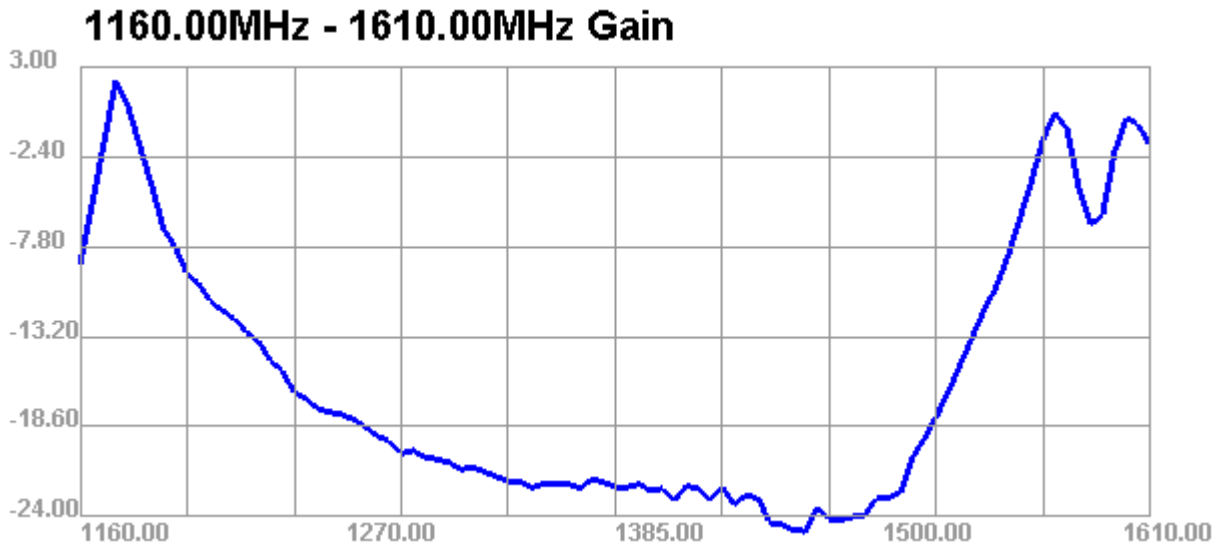
VSWR

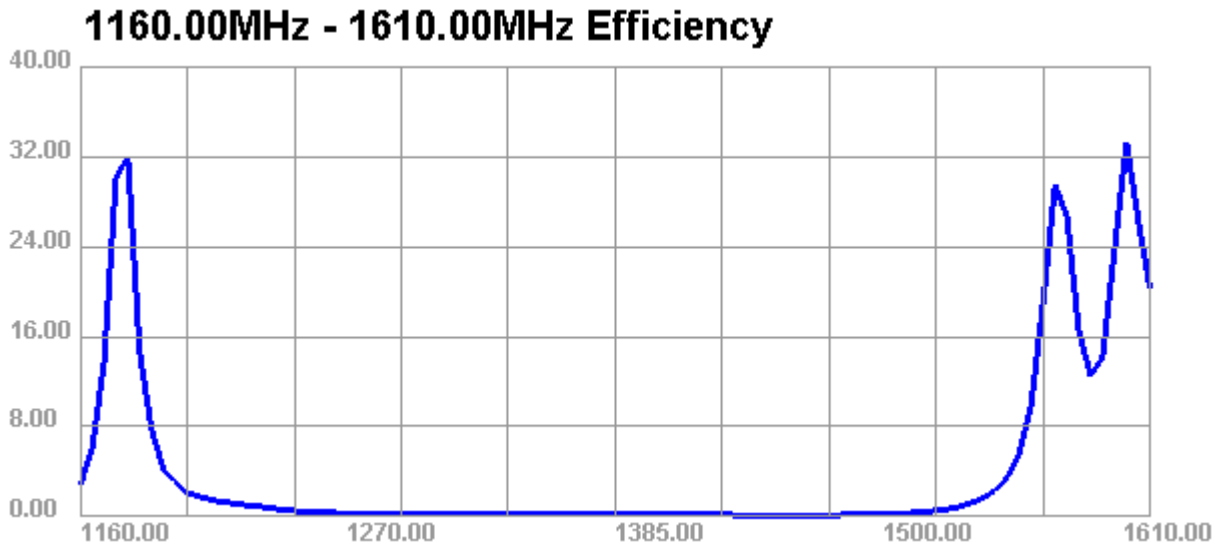


Return Loss

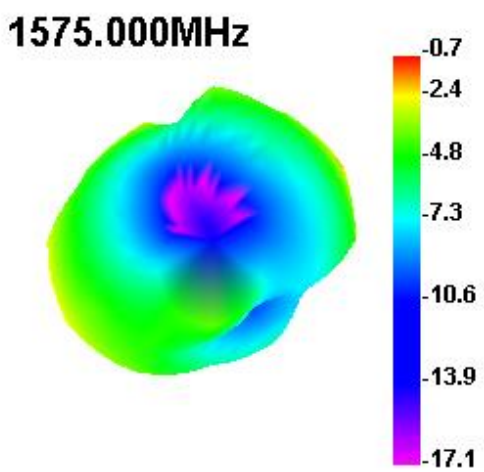


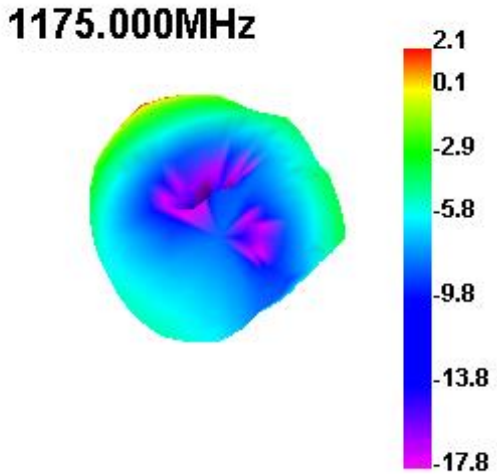
Smith


1160.00MHz - 1610.00MHz Gain
3.00
-2.40
-7.80
-13.20
-18.60
-24.00
1160.00
1270.00
1385.00
1500.00
1610.00


1160.00MHz - 1610.00MHz Efficiency
40.00
32.00
24.00
16.00
8.00
0.00
1160.00
1270.00
1385.00
1500.00
1610.00

Directional Pattern





4. Antenna Drawings

