SUNNYWAY

SWG022

PN: SW21013IB93



1. Electrical Specification

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	Adhesive
Adhesive Type	3M9448A
Connector Type	IPEX1 Standard
Antenna size(mm)	25mm (L) x25 mm (W) x 4mm (H) 18mm (L) x18 mm (W) x 2mm (H)
Material	Ceramic
Cable length(mm)	100.0mm
Operating Temperature (˚C)	-40 ˚C ~ +85 ˚C

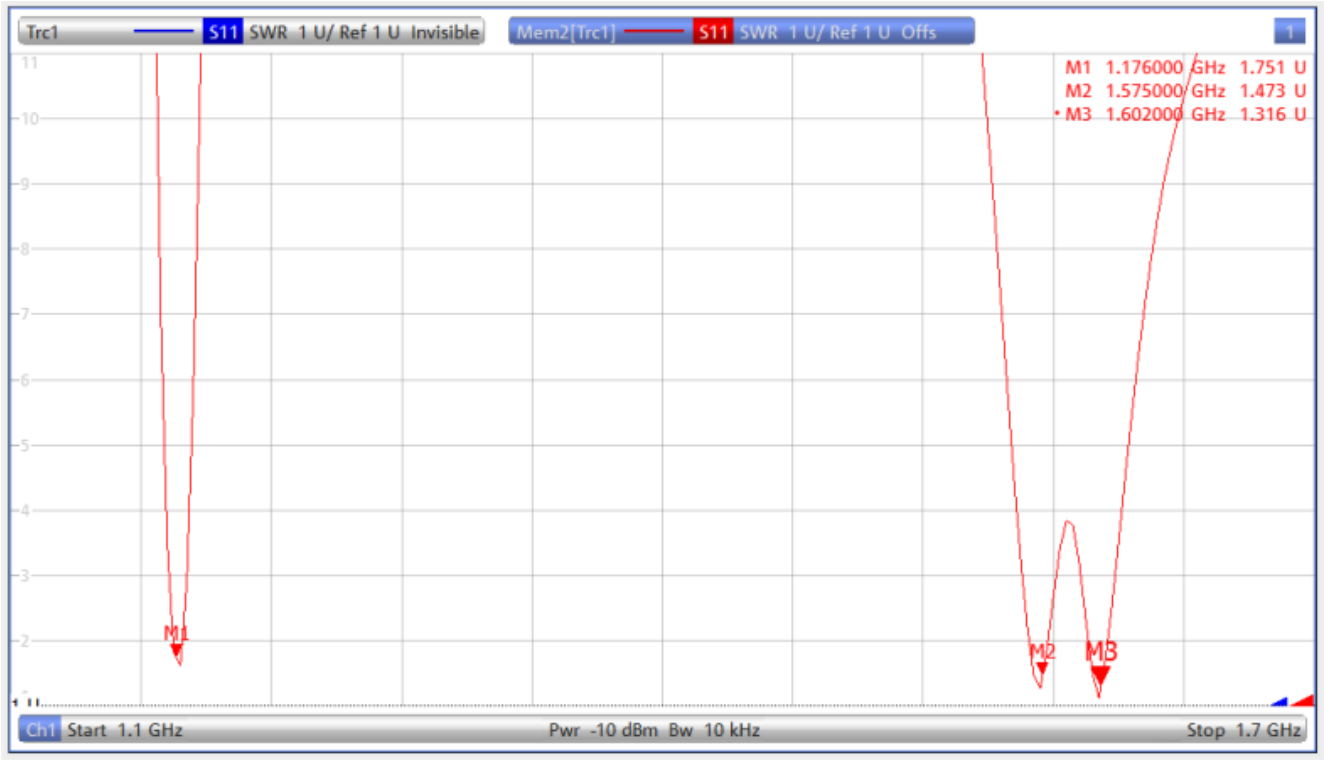
3. Antenna parameters

Storage Temperature(˚C)	-40 ˚C ~ +85 ˚C

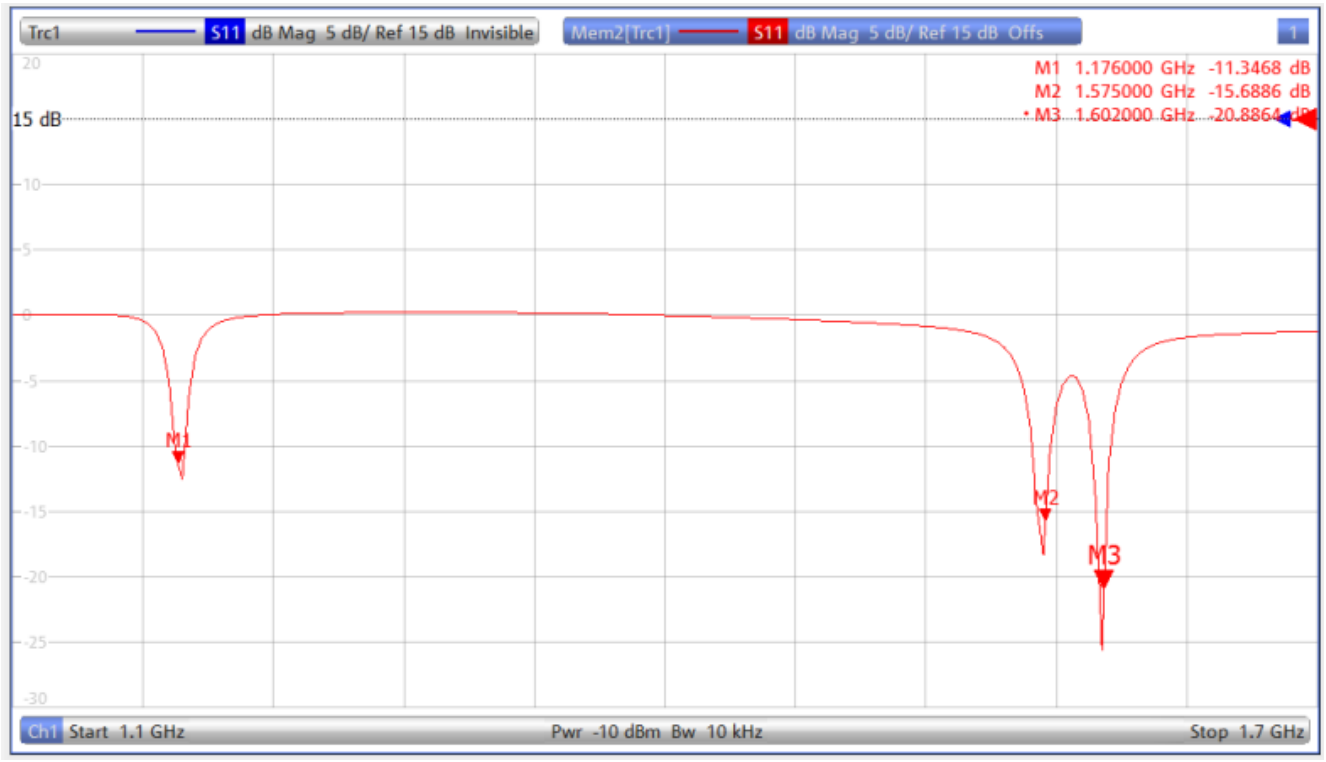
3.1 General Specification

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

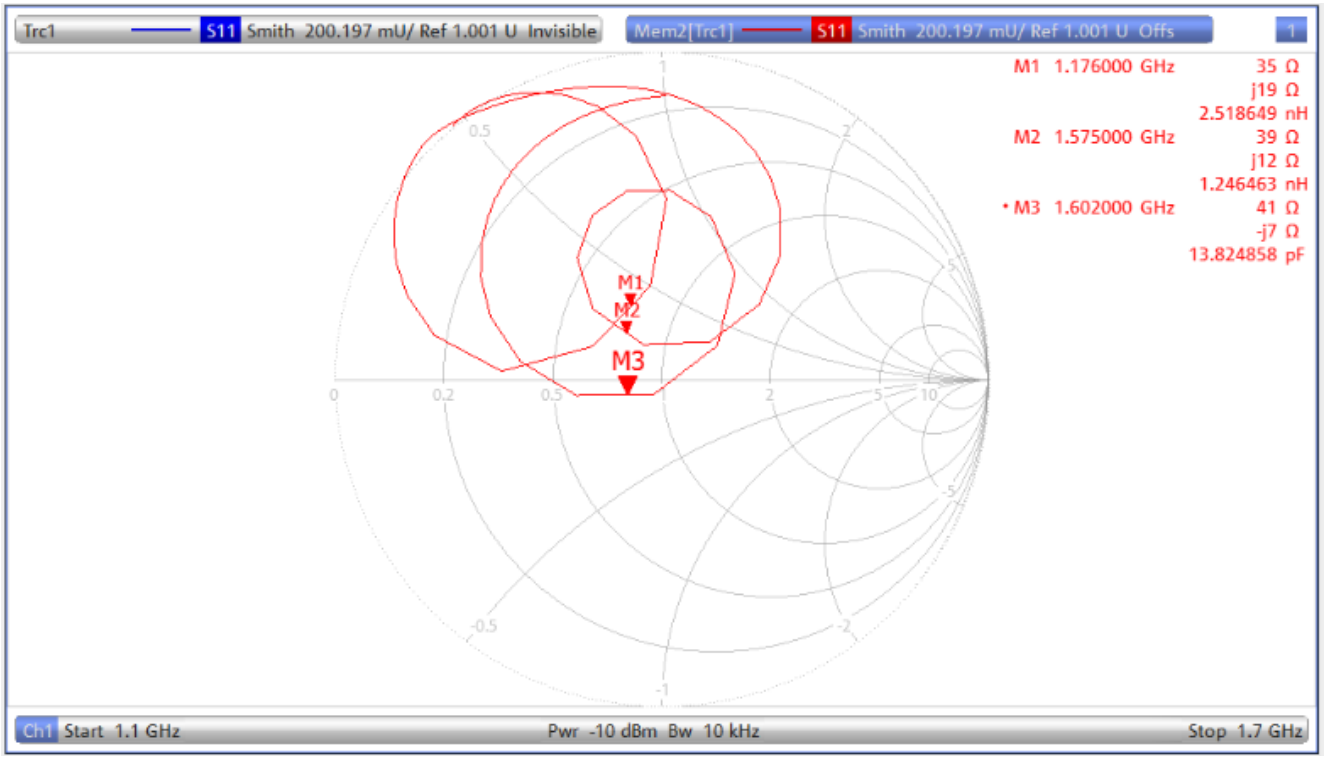
3.2 VSWR



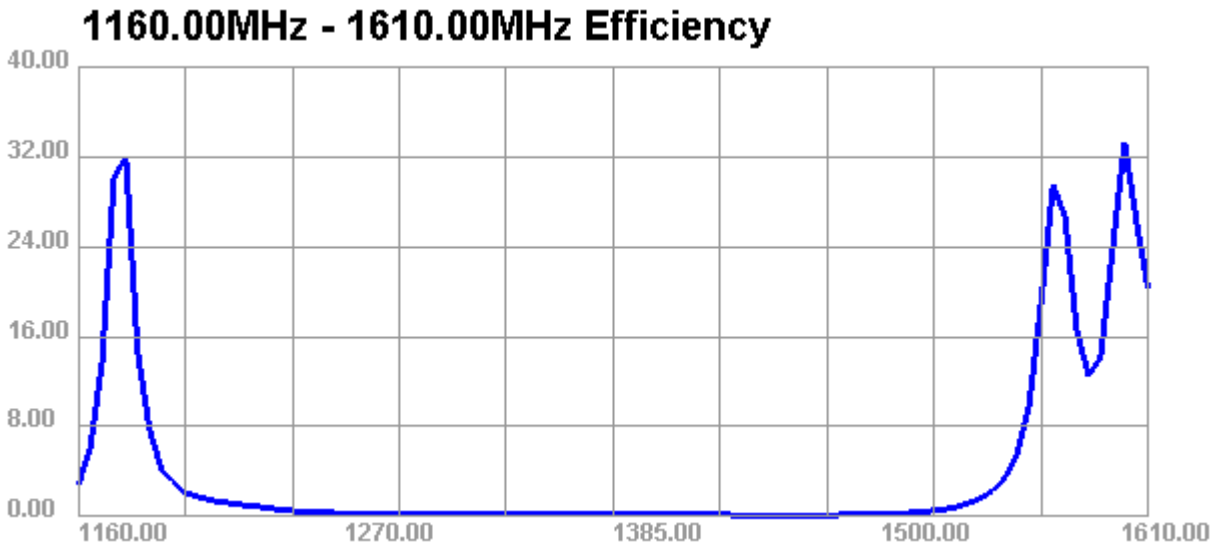
3.3 Return Loss



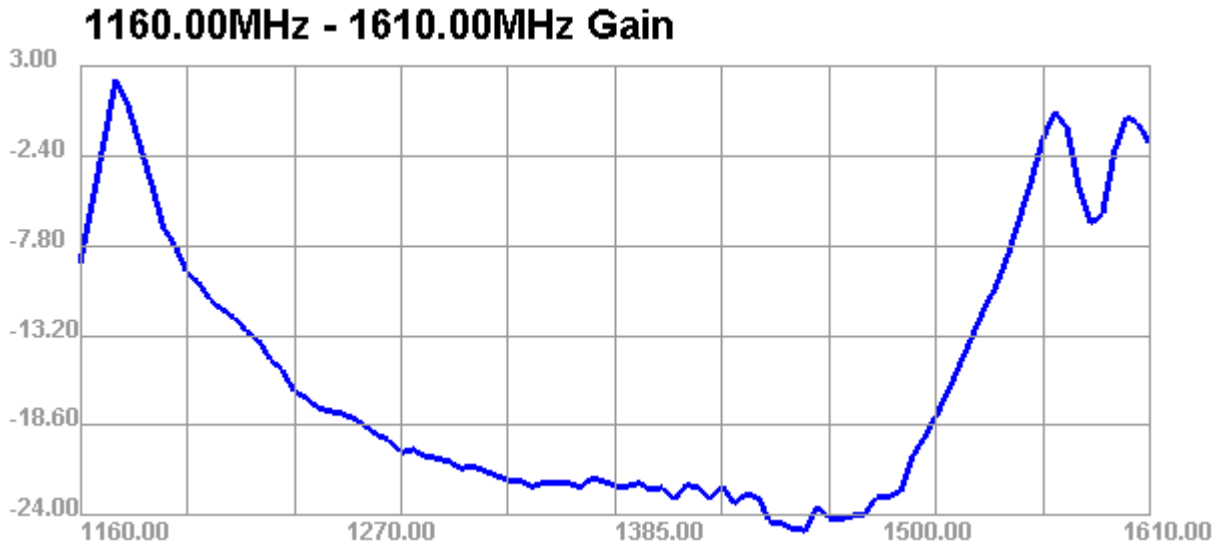
3.4 SMITH



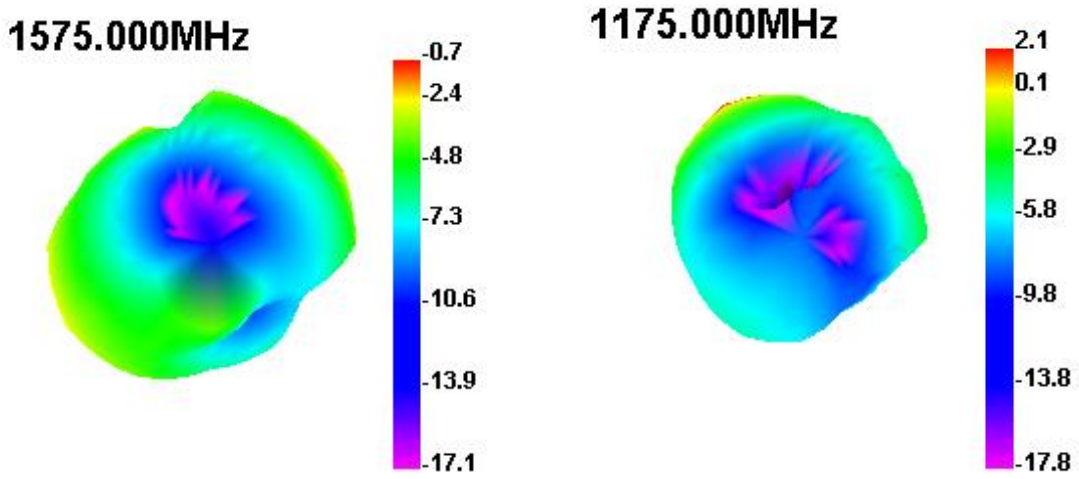
3.5 Efficiency


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

3.6 Gain


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

3.7 Directional Pattern



4. Antenna Drawing(Unit:mm)

