SUNNYWAY

SWF005

PN: SW19013IB77



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1. Electrical Specifications

Standards	GPS L1+L2+L5/Glonass/Galileo/Beidou				
Frequency range (MHz)	1176MHz	1227MHz	1559MHz	1575MHz	1602MHz
Peak Gain (dBi)	2.0dBi	1.6dBi	2.8dBi	3.0dBi	3.5dBi
Average Gain (dB)	-4.3dB	-3.9dB	-2.4dB	-2.8dB	-2.5dB
VSWR	1.97	1.80	1.76	1.60	1.47
Return Loss	-9.68	-10.8	-11.1	-12.7	-14.3
Efficiency (%)	37.1%	40.1%	57.5%	52.2%	56.1%
Polarization mode	Linear				
Radiation pattern	Omni-Directional				
Output impedance (Ω)	50				
Max. Input Power(W)	25				

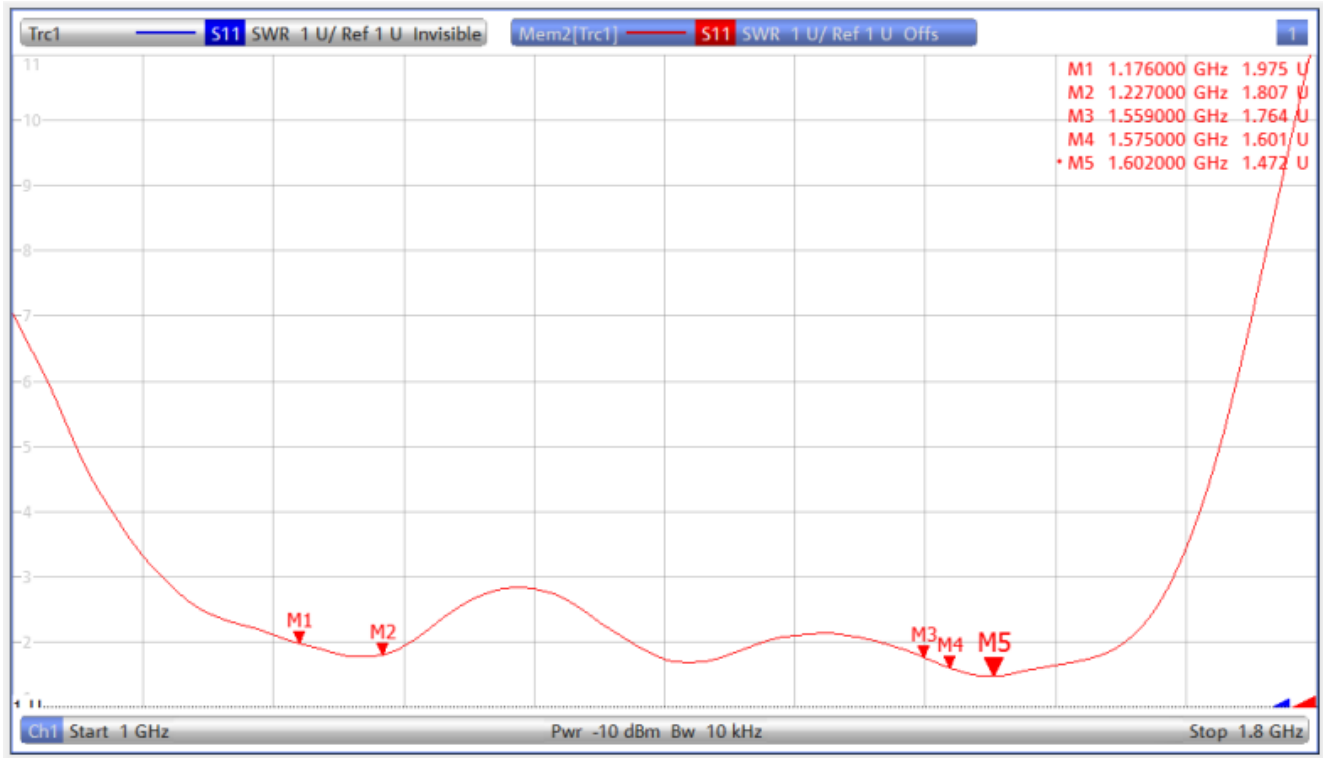
2. Mechanical and Environmental Specification

Mounting Type	Adhesive
Adhesive Type	3M9471
Connector Type	U.FL Standard
Antenna size(mm)	39mm (L) x 6.5mm (W) x 0.12mm (H)
Material	FPC

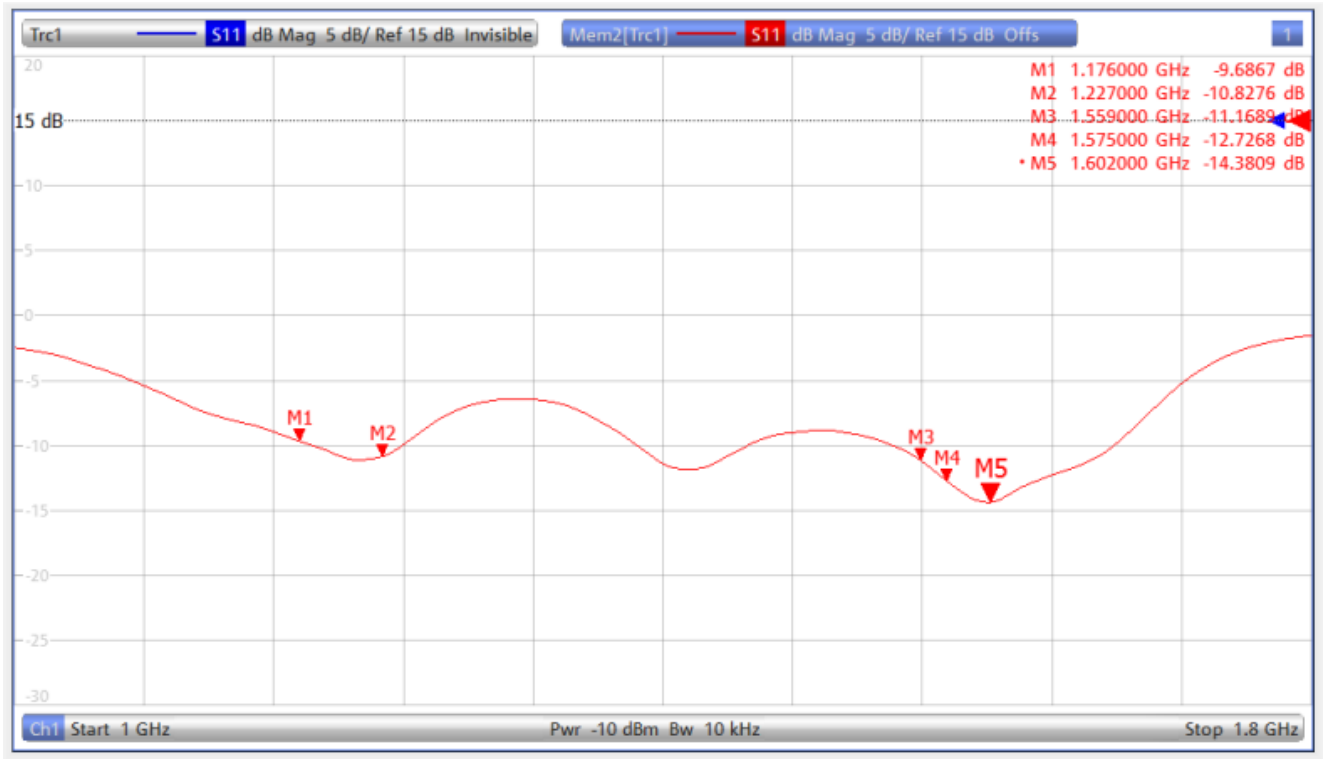
Cable length(mm)	220mm
Operating Temperature (˚C)	- 40 ˚C ~ + 85 ˚C
Storage Temperature(˚C)	- 40 ˚C ~ + 85 ˚C

3. Antenna parameters

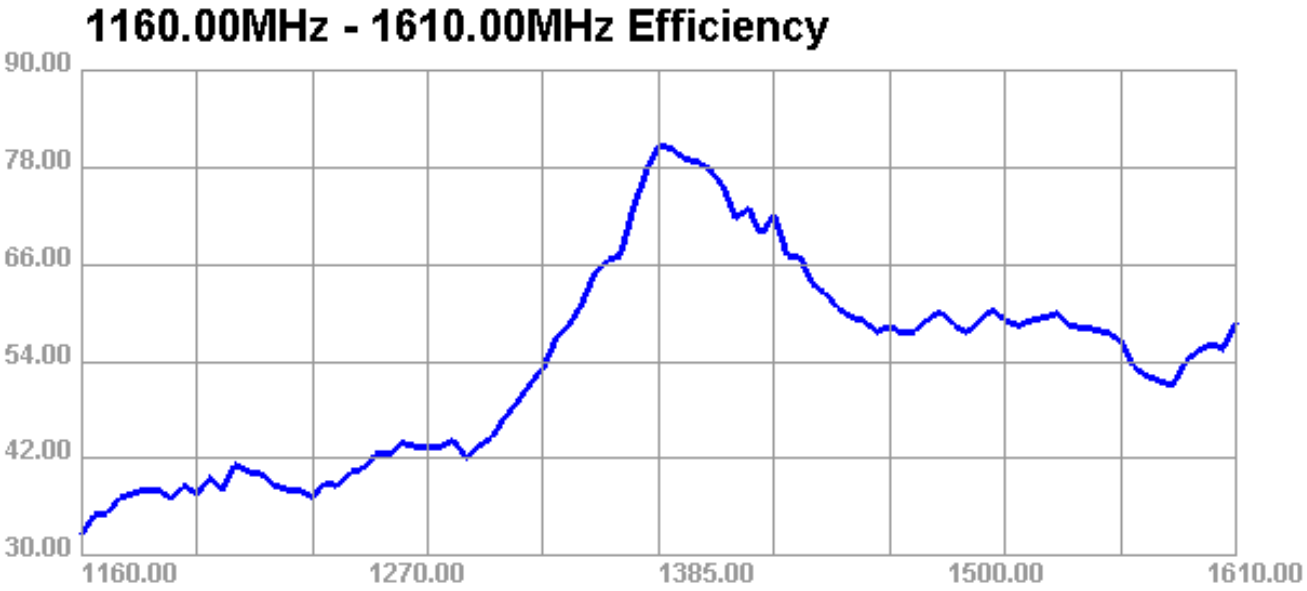
FRE（MHz）	1176	1227	1559	1575	1602
VSWR	1.97	1.80	1.76	1.60	1.47
Return Loss	-9.68	-10.8	-11.1	-12.7	-14.3
Eff (%)	37.1	40.1	57.5	52.2	56.1
Average Gain(dB)	-4.30	-3.96	-2.40	-2.82	-2.50

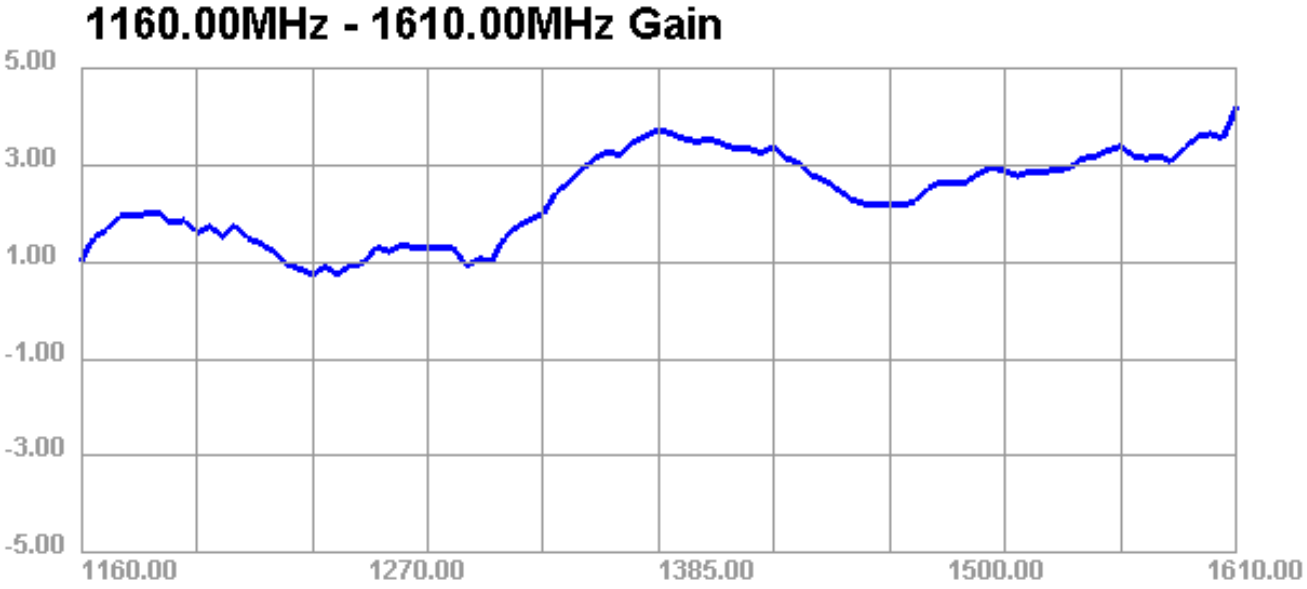


VSWR

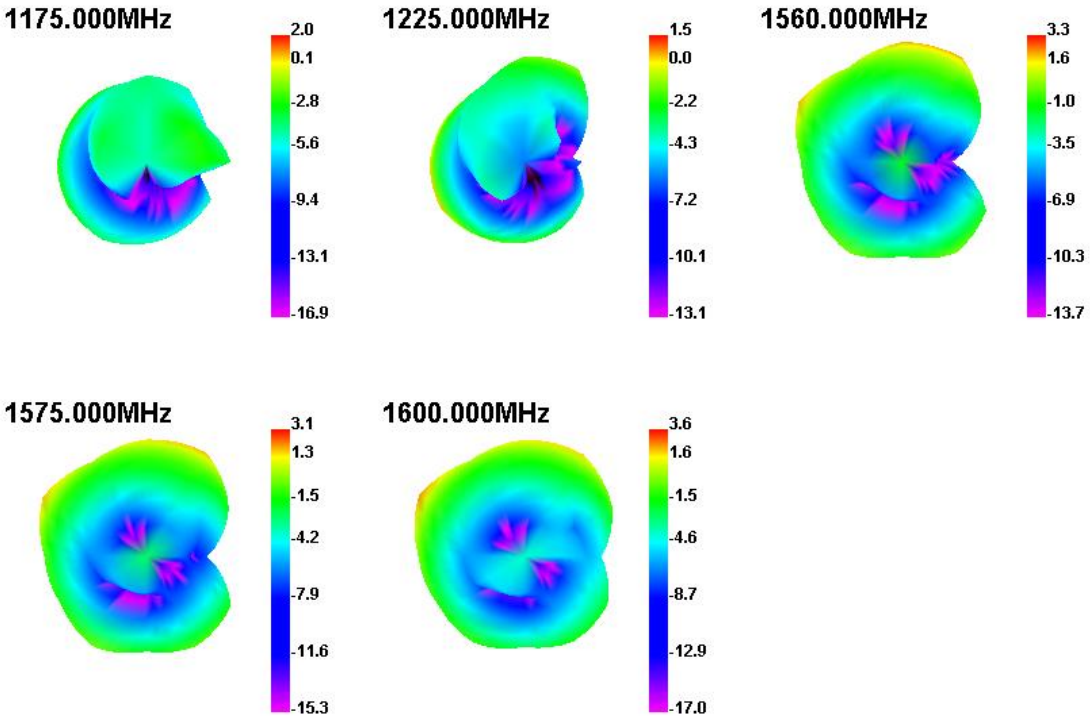


Return Loss


1160.00MHz - 1610.00MHz Efficiency
90.00
78.00
66.00
54.00
42.00
30.00
1160.00
1270.00
1385.00
1500.00
1610.00


1160.00MHz - 1610.00MHz Gain
5.00
3.00
1.00
-1.00
-3.00
-5.00
1160.00
1270.00
1385.00
1500.00
1610.00

Directional pattern



4. Antenna Drawings

