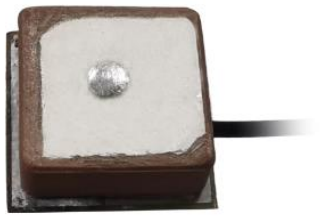
SUNNYWAY

SWG011

PN: SW19075IB93



Sunnyway Technology

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1. Electrical Specifications

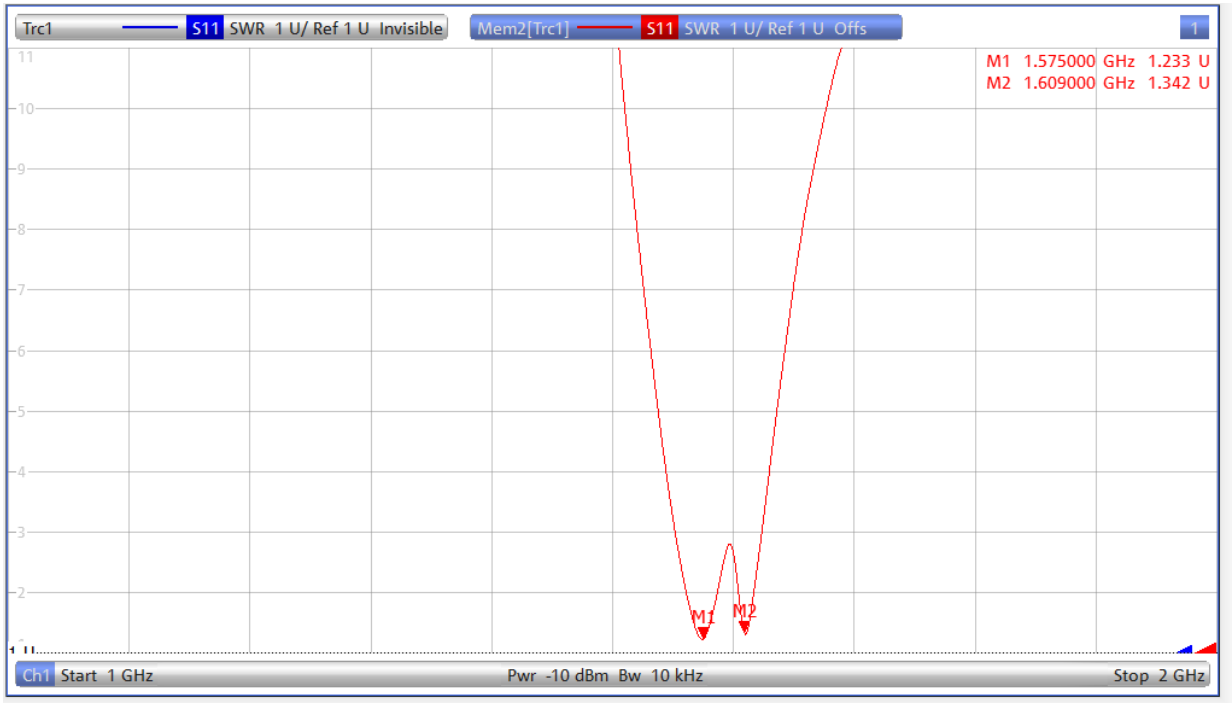
Standards	GPS/GLONASS	
Frequency range (MHz)	1575MHz	1609MHz
Peak Gain (dBi)	2.04dBi	2.23dBi
Average Gain (dB)	-3.6dB	-3.4dB
VSWR	1.23	1.34
Return Loss	-19.61	-16.73
Efficiency (%)	43.3%	45.7%
Polarization mode	Circular polarization	Circular polarization
Radiation pattern	Hemispherical	Hemispherical
Voltage Range (V)	3.0 - 5.0	3.0 - 5.0
Active Gain (dB)	25 @ 5.0 V	26 @ 5.0 V
Noise Figure (dB)	1.5 @ 5.0 V	1.5 @ 5.0 V
Current Consumption (mA)	20 @ 5.0 V	20 @ 5.0 V
Power Consumption (mW)	100 @ 5.0 V	100 @ 5.0 V

2. Mechanical and Environmental Specification

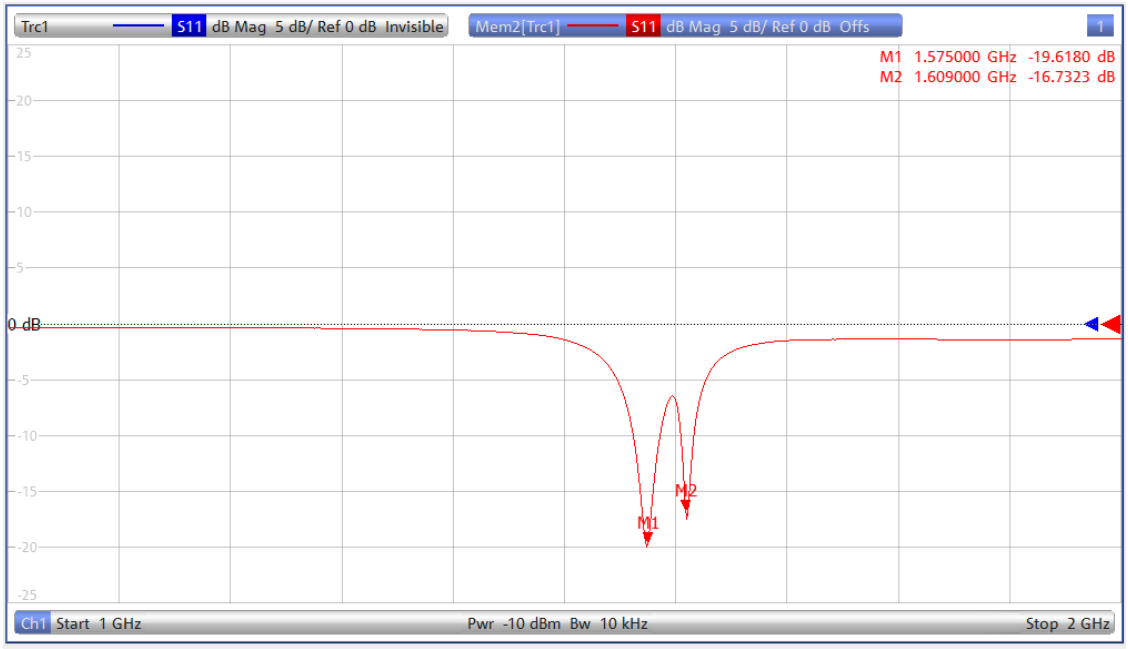
Mounting Type	Adhesive
Adhesive Type	3M9448A
Connector Type	U.FL Standard
Antenna size(mm)	12mm (L) x12 mm (W) x 4.4mm (H)
Material	ceramic
Cable length(mm)	150.0mm
Operating Temperature (˚C)	-40 ˚C ~ +85 ˚C
Storage Temperature(˚C)	-40 ˚C ~ +85 ˚C

3. Antenna parameters

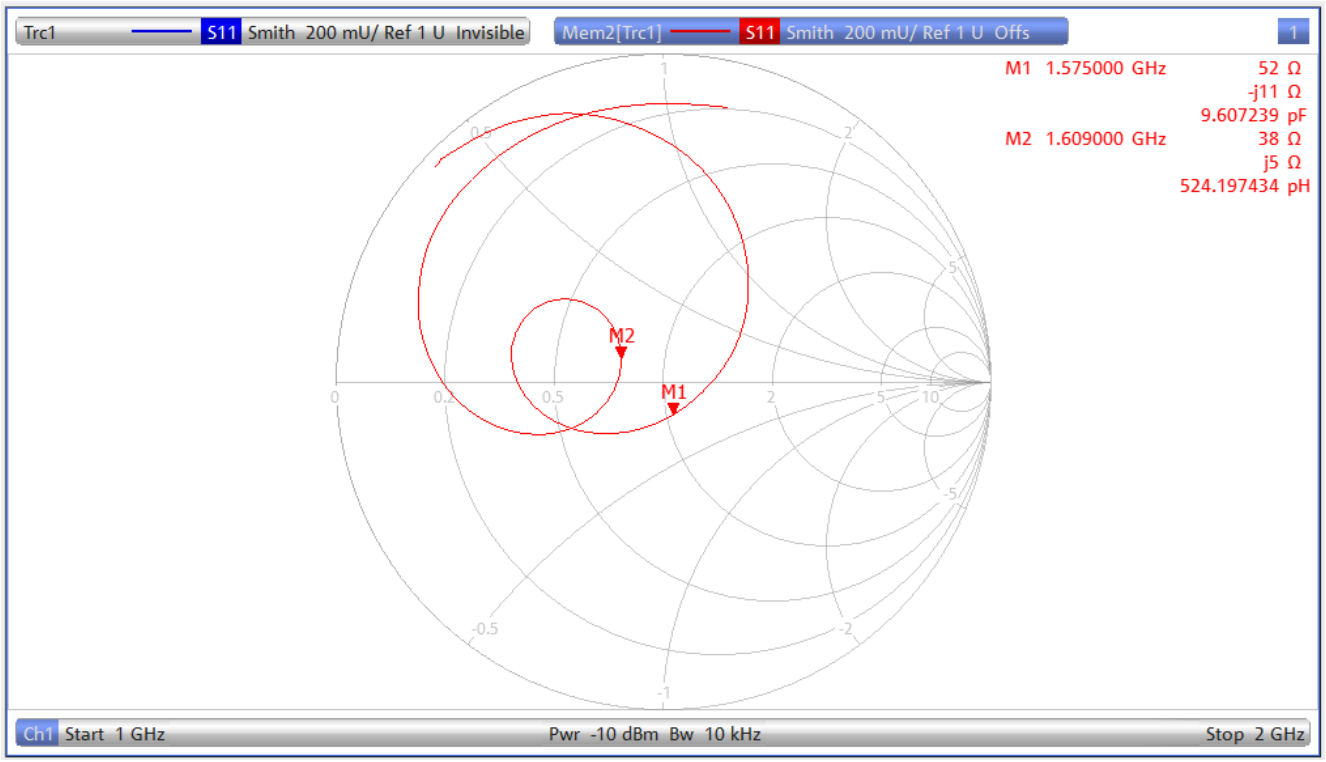
FRE（MHz）	1575	1609
VSWR	1.23	1.34
Return Loss	-19.61	-16.73
UEff (%)	43.3	45.7
PEAK Gain (dBi)	2.04	2.23



VSWR

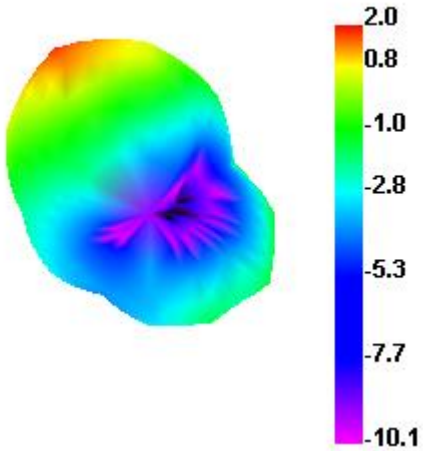


Return Loss



Smith

Directional pattern



4. Antenna Drawings

