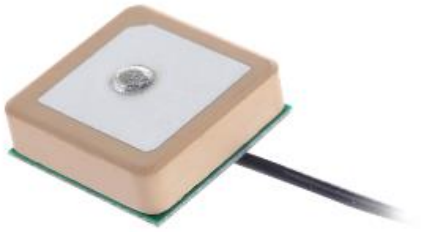
SUNNYWAY

SWG001

PN: SW19017IB93



Sunnyway Technology

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1. Electrical Specifications

Standards	GPS/Glonass/Galileo	
Frequency range (MHz)	1575MHz	1602MHz
Peak Gain (dBi)	2.13dBi	2.07dBi
Average Gain (dB)	-2.89dB	-2.76dB
VSWR	1.13	1.82
Return Loss	-23.84	-10.73
Efficiency (%)	51.3%	52.9%
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	25 @ 5.0 V
Noise Figure (dB)	2.5 @ 5.0 V	2.5 @ 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

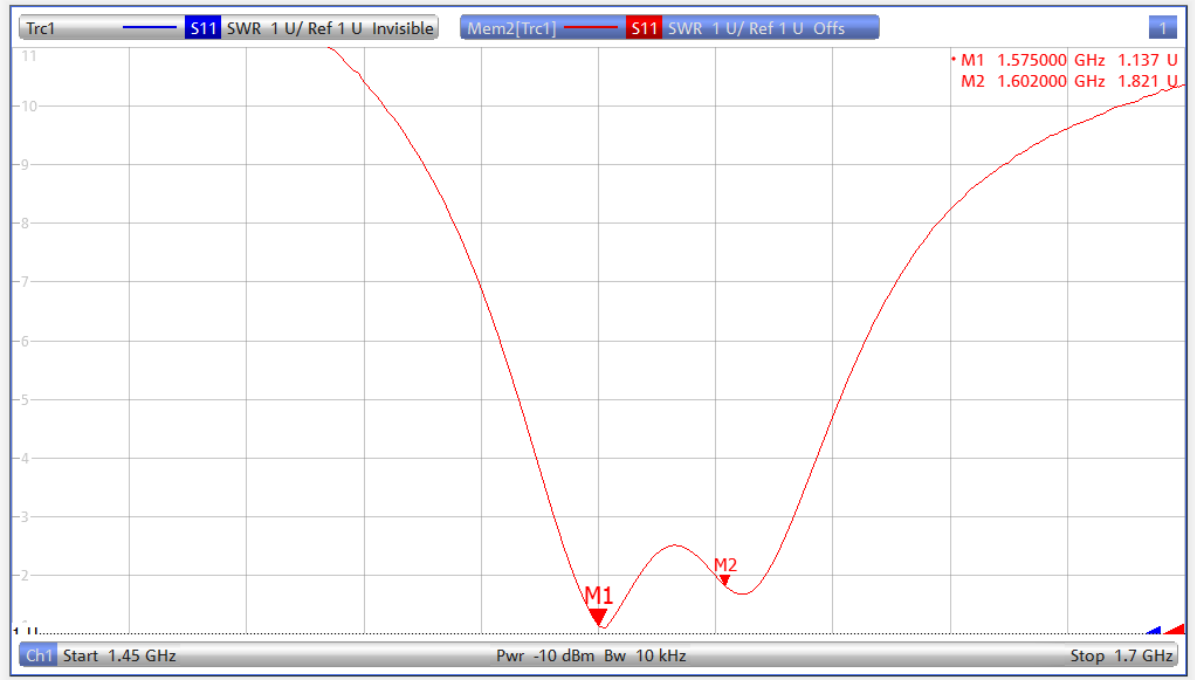
2. Mechanical and Environmental Specification

Mounting Type	Adhesive
Adhesive Type	3M9448A
Connector Type	U.FL Standard

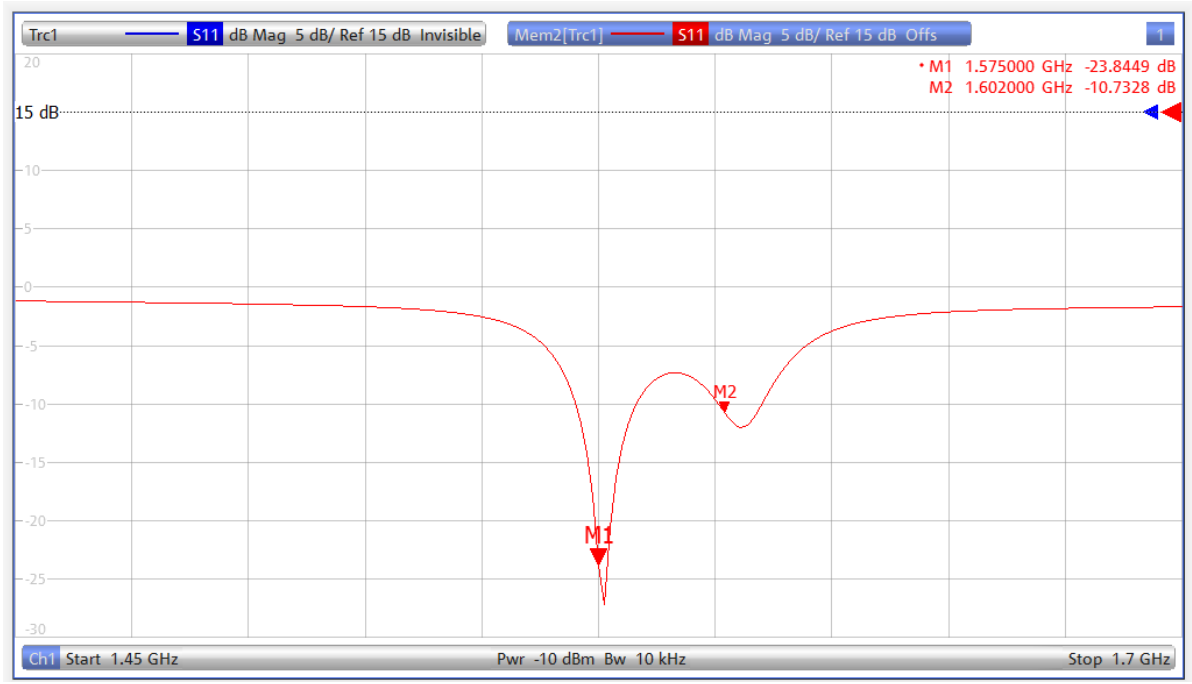
Antenna size(mm)	15mm (L) x15 mm (W) x 6.9mm (H)
Material	Ceramic
Cable length(mm)	17.6mm
Operating Temperature (˚C)	-40 ˚C ~ +85 ˚C
Storage Temperature(˚C)	-40 ˚C ~ +85 ˚C

3. Antenna parameters

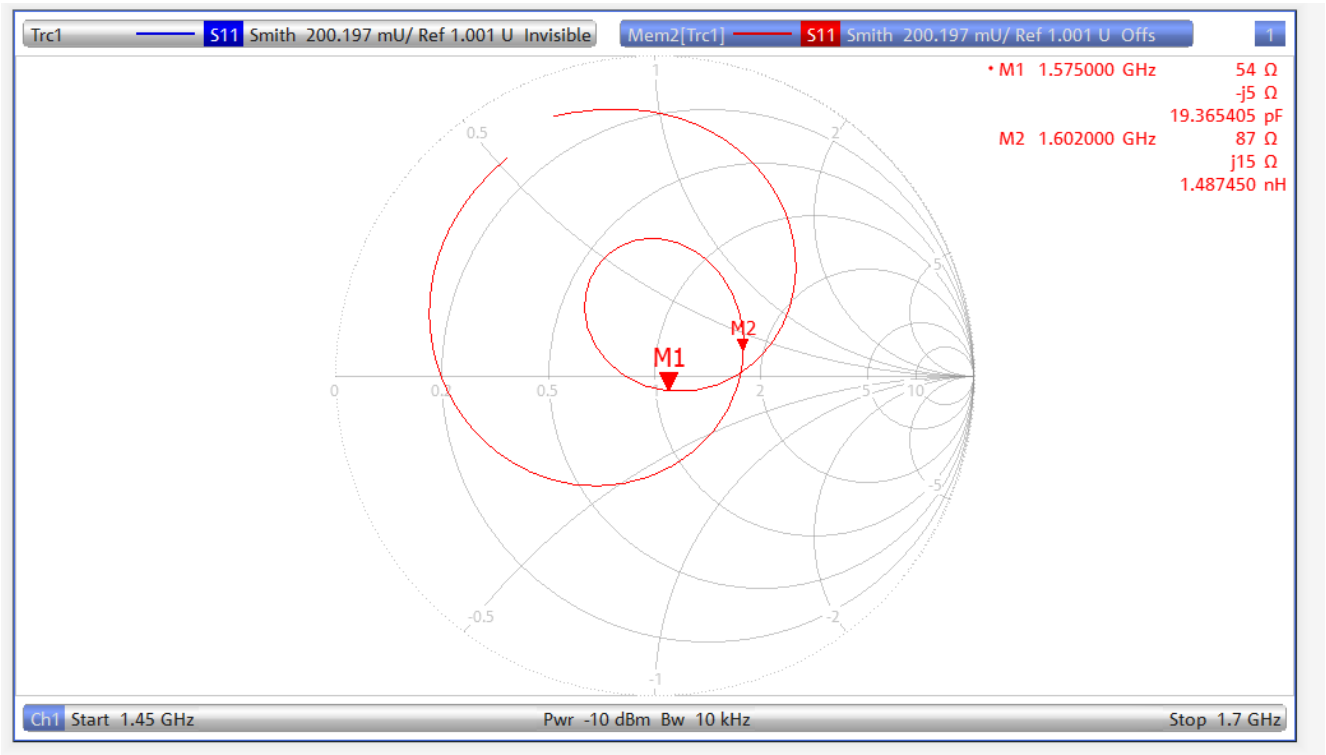
FRE（MHz）	1575	1602
VSWR	1.13	1.82
Return Loss	-23.84	-10.73
Eff(%)	51.3	52.9
PEAK Gain(dBi)	2.13	2.07



VSWR

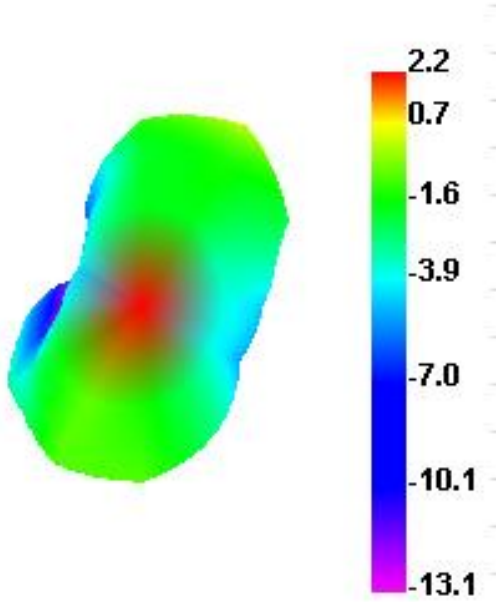


Return Loss



Smith

Directional pattern



4. Antenna Drawings

