SUNNYWAY

SWG005

PN: SW19021IB93



Sunnyway Technology

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1. Electrical Specifications

Standards	GPS/GLONASS/GALILEO/BEIDOU		
Frequency range (MHz)	1559MHz	1575MHz	1602MHz
Peak Gain (dBi)	2.33dBi	2.24dBi	2.98dBi
Average Gain (dB)	--1.99dB	-2.24dB	-2.04dB
VSWR	1.74	2.97	1.04
Return Loss	-11.32	-6.08	-34.24
Efficiency (%)	63.2%	59.7%	62.4%
Polarization mode	Circular polarization	Circular polarization	Circular polarization
Radiation pattern	Hemispherical	Hemispherical	Hemispherical
Voltage Range (V)	3.0 - 5.0	3.0 - 5.0	3.0 - 5.0
Active Gain (dB)	25 @ 5.0 V	25 @ 5.0 V	25 @ 5.0 V
Noise Figure (dB)	2.5 @ 5.0 V	2.5 @ 5.0 V	2.5 @ 5.0 V
Current Consumption (mA)	20 @ 5.0 V	20 @ 5.0 V	20 @ 5.0 V
Power Consumption (mW)	100 @ 5.0 V	100 @ 5.0 V	100 @ 5.0 V

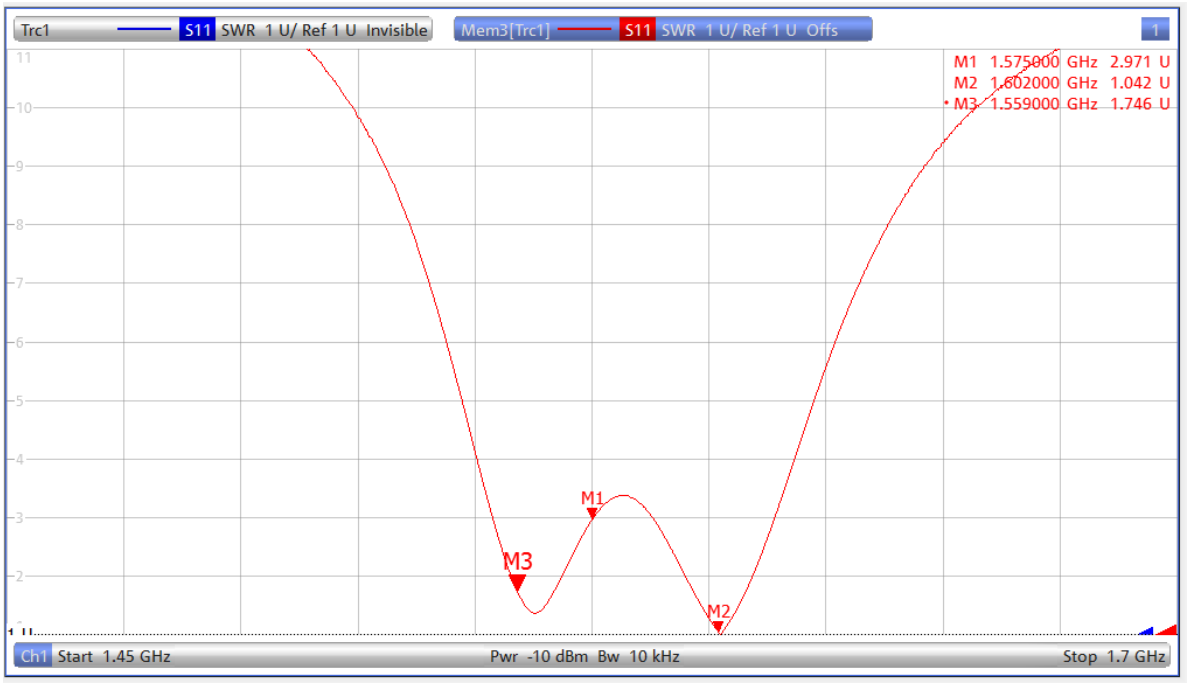
2. Mechanical and Environmental Specification

Mounting Type	Adhesive
Adhesive Type	3M9448A
Connector Type	U.FL Standard
Antenna size(mm)	35mm (L) x35 mm (W) x 7.1mm (H)

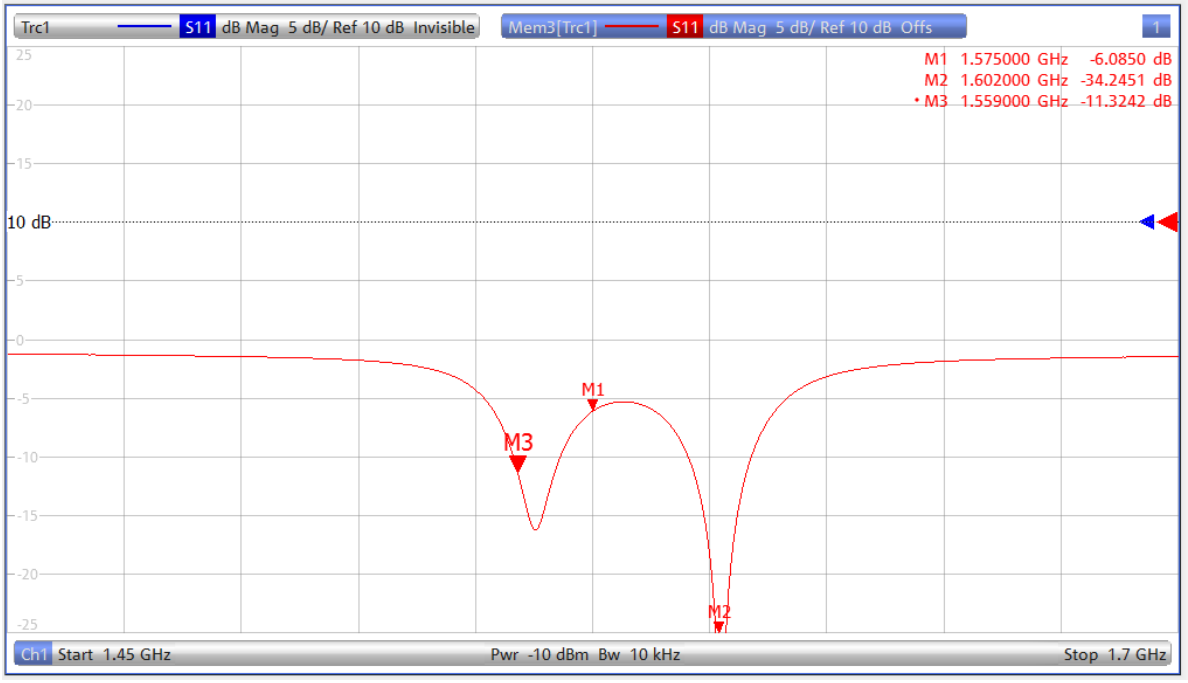
Material	ceramic
Cable length(mm)	100.0mm
Operating Temperature (˚C)	-40 ˚C ~ +85 ˚C
Storage Temperature(˚C)	-40 ˚C ~ +85 ˚C

3. Antenna parameters

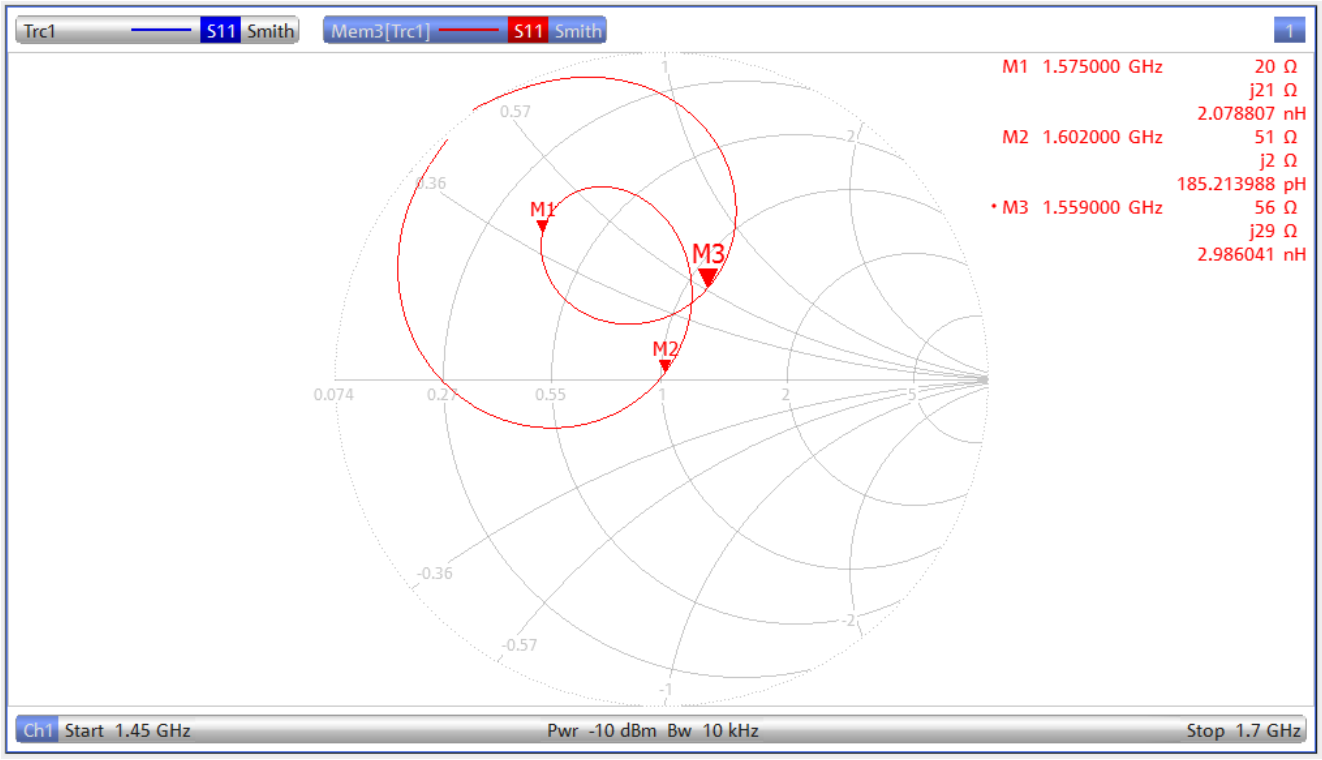
FRE（MHz）	1559	1575	1602
VSWR	1.74	2.97	1.04
Return Loss	-11.32	-6.08	-34.24
UEff(%)	63.2	59.7	62.4
PEAK Gain (dBi)	2.33	2.24	2.98



VSWR

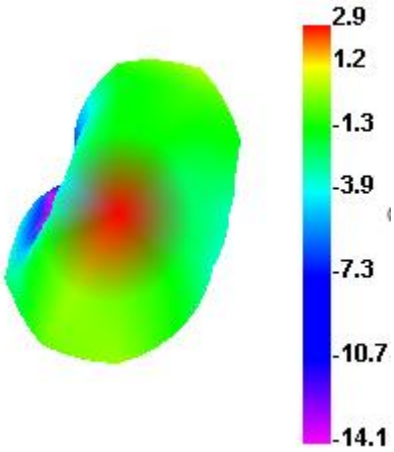


Return Loss



Smith

Directional pattern



4. Antenna Drawings

