SUNNYWAY

SWG002

PN: SW19018IB93



Sunnyway Technology
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1. Electrical Specifications

Standards	GPS/GLONASS/GALILEO/BEIDOU		
Frequency range (MHz)	1559MHz	1575MHz	1602MHz
Peak Gain (dBi)	2.04dBi	2.14dBi	3.02dBi
Average Gain (dB)	-2.41dB	-2.66dB	-2.34dB
VSWR	1.80	2.98	1.11
Return Loss	-10.83	-6.06	-25.42
Efficiency (%)	57.3%	54.2%	58.3%
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

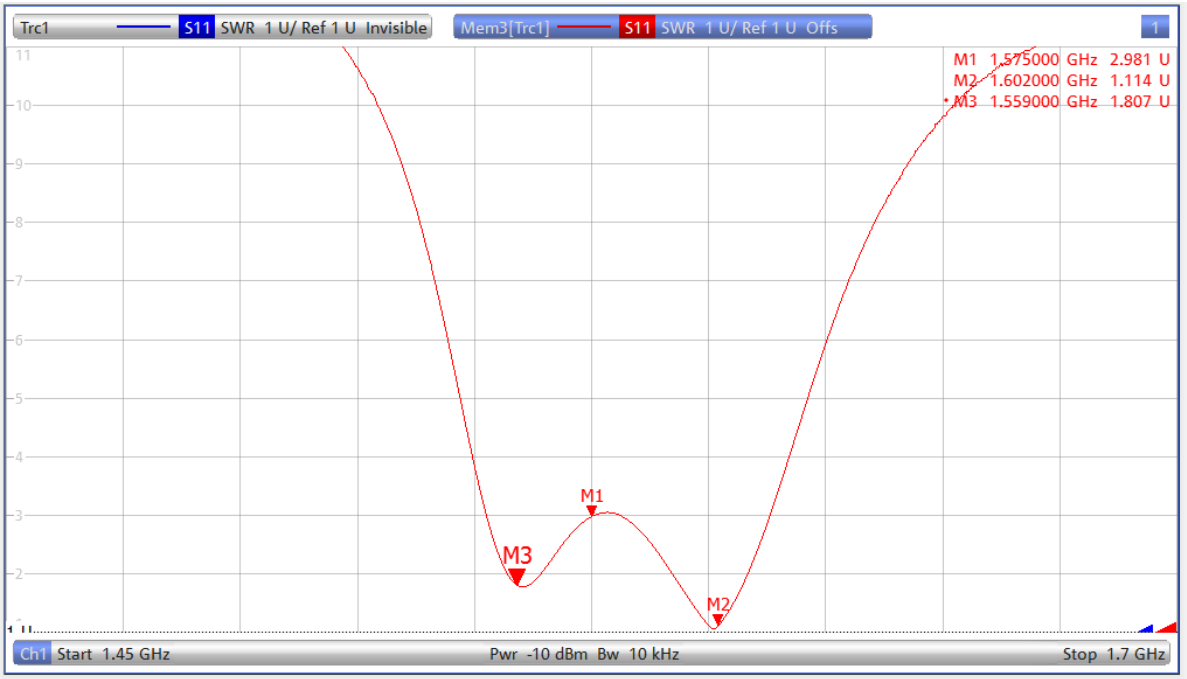
2. Mechanical and Environmental Specification

Mounting Type	Adhesive
Adhesive Type	3M9448A
Connector Type	U.FL Standard
Antenna size(mm)	18mm (L) x18 mm (W) x 6.7mm (H)

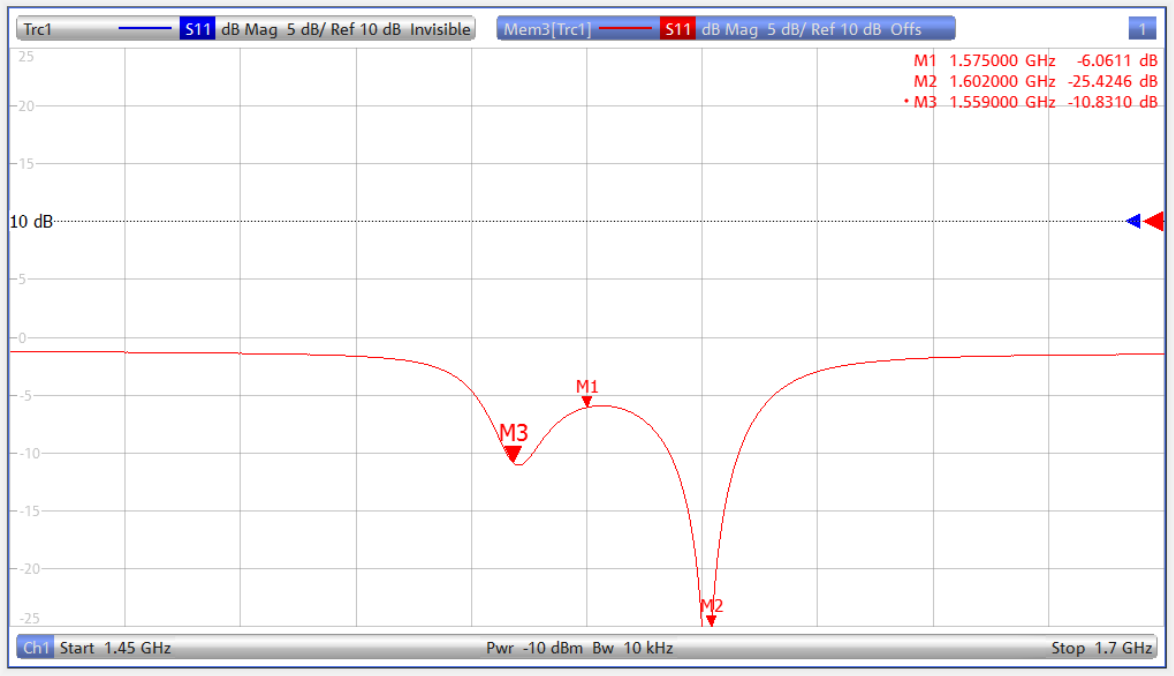
Material	Ceramic
Cable length(mm)	66.0mm
Operating Temperature (˚C)	-40 ˚C ~ +85 ˚C
Storage Temperature (˚C)	-40 ˚C ~ +85 ˚C

3. Antenna parameters

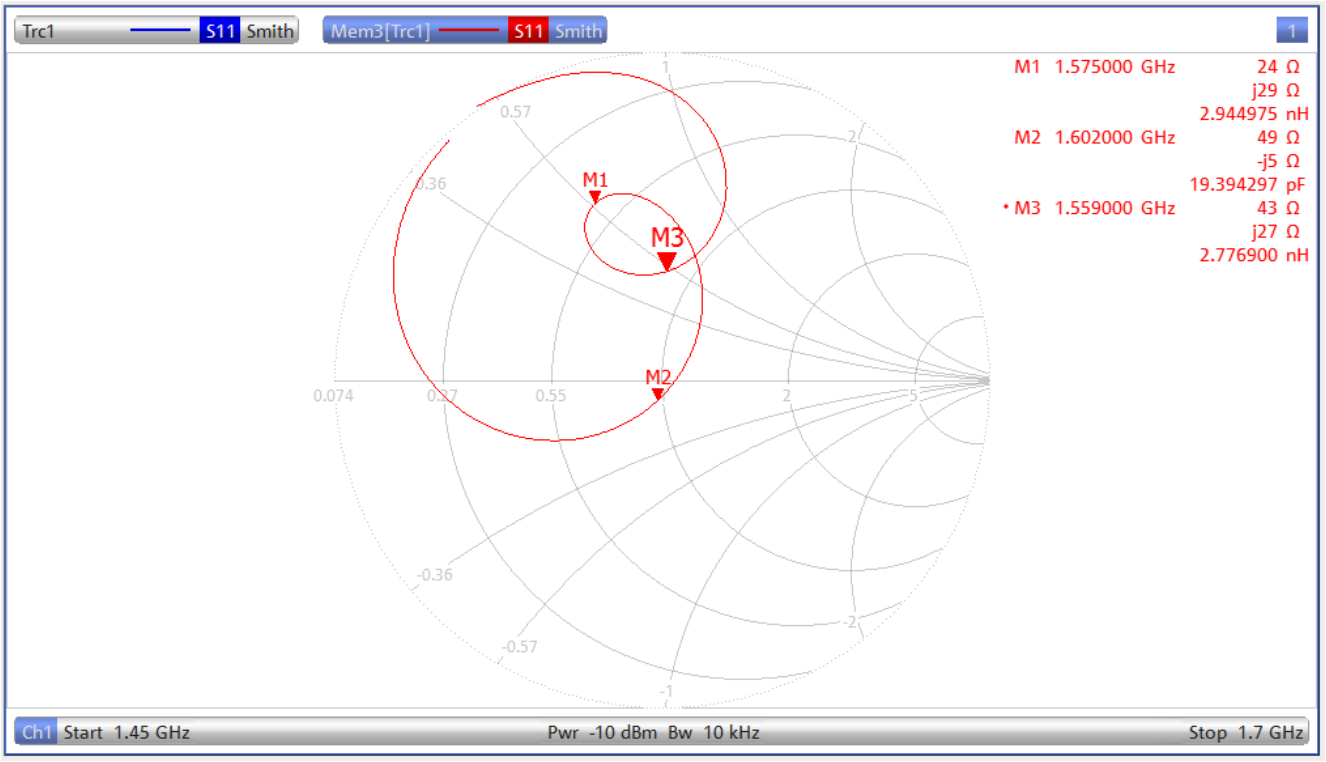
FRE（MHz）	1559	1575	1602
VSWR	1.80	2.98	1.11
Return Loss	-10.8	-6.06	-25.4
UEff (%)	57.3	54.2	58.3
Peak Gain (dBi)	2.04	2.14	3.02



VSWR

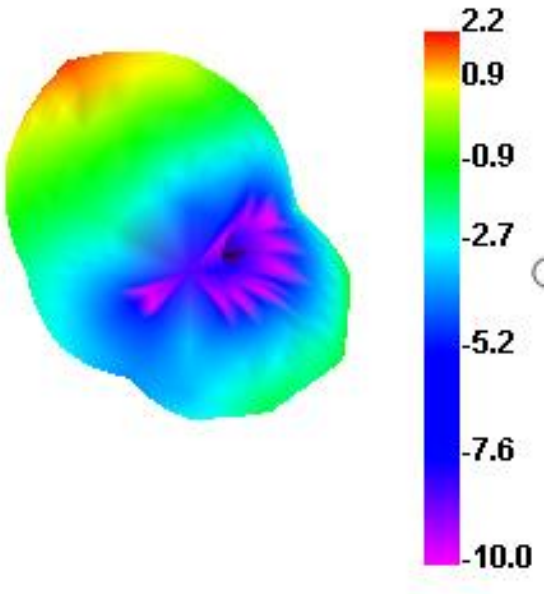


Return Loss



Smith

Directional pattern



4. Antenna Drawings

