SUNNYWAY

SWG004

PN: SW19020IB93



Sunnyway Technology
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1. Electrical Specifications

Standards	GPS/GLONASS/GALILEO/BEIDOU		
Frequency range (MHz)	1559MHz	1575MHz	1602MHz
Peak Gain (dBi)	2.23dBi	2.27dBi	2.84dBi
Average Gain (dB)	-2.12dB	-2.56dB	-2.27dB
VSWR	2.15	2.48	1.16
Return Loss	-8.74	-7.40	-22.51
Efficiency (%)	61.3%	55.4%	59.2%
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

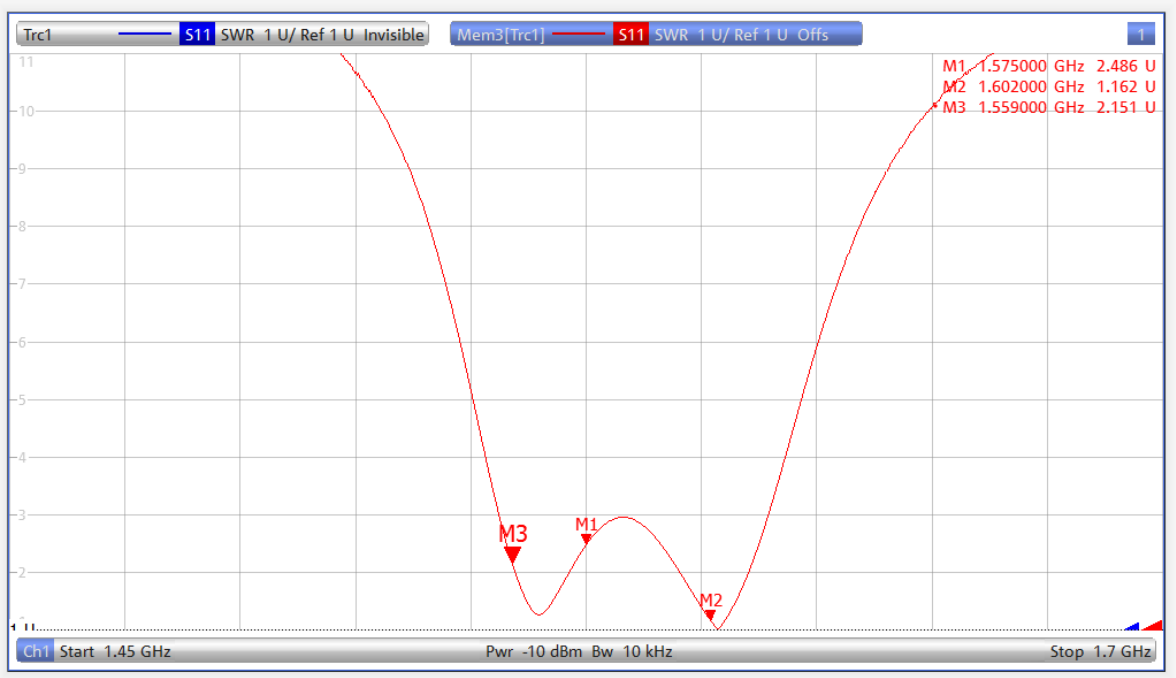
2. Mechanical and Environmental Specification

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

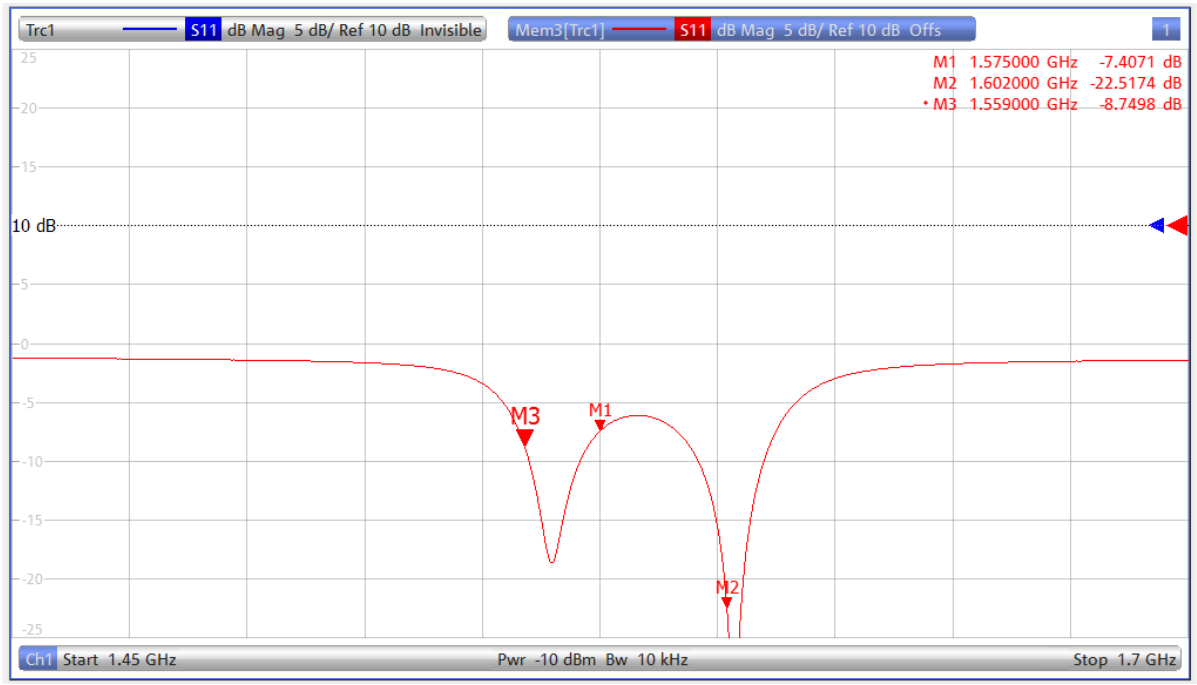
Antenna size(mm)	25mm (L) x25 mm (W) x 6.5mm (H)
Material	ceramic
Cable length(mm)	43.0mm
Operating Temperature (˚C)	-40 ˚C ~ +85 ˚C
Storage Temperature(˚C)	-40 ˚C ~ +85 ˚C

3. Antenna parameters

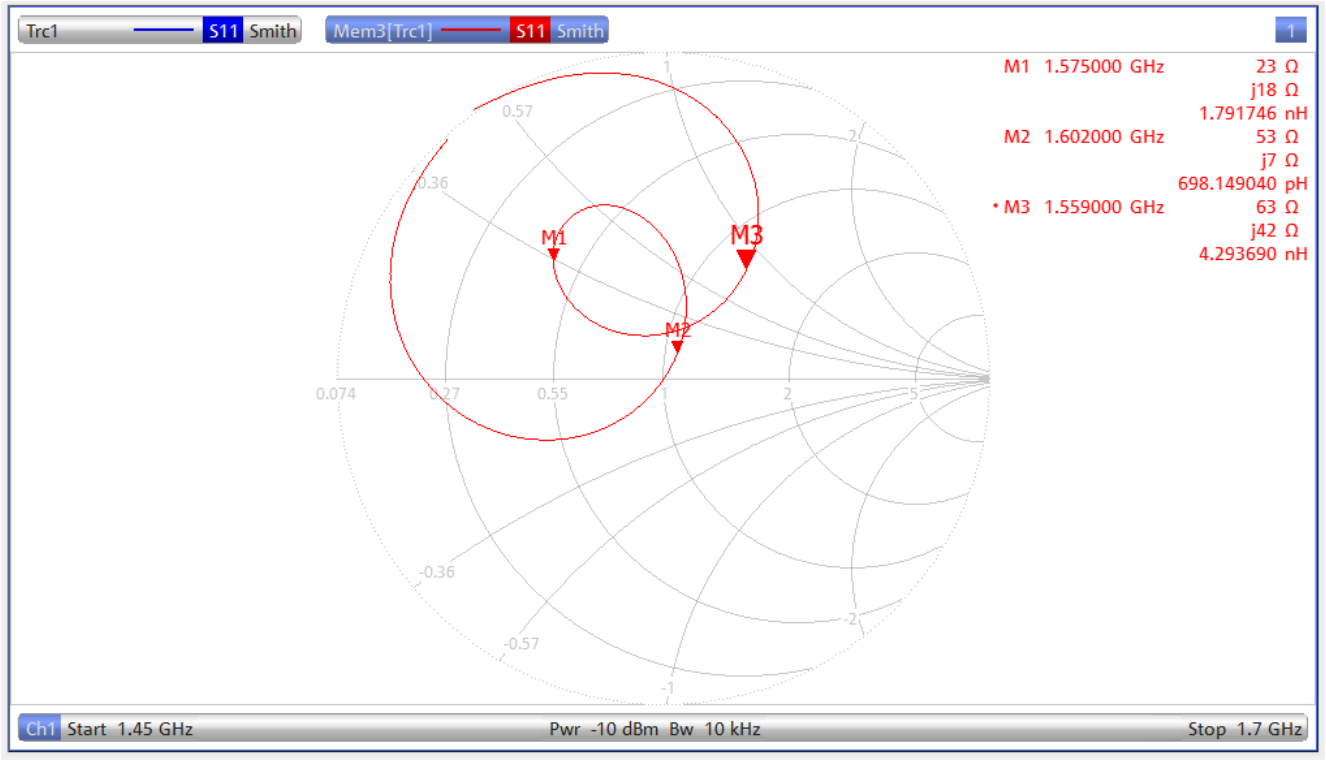
FRE（MHz）	1559	1575	1602
VSWR	2.15	2.48	1.16
Return Loss	-8.74	-7.40	-22.51
UEff (%)	61.3	55.4	59.2
PEAK Gain (dBi)	2.23	2.27	2.84



VSWR

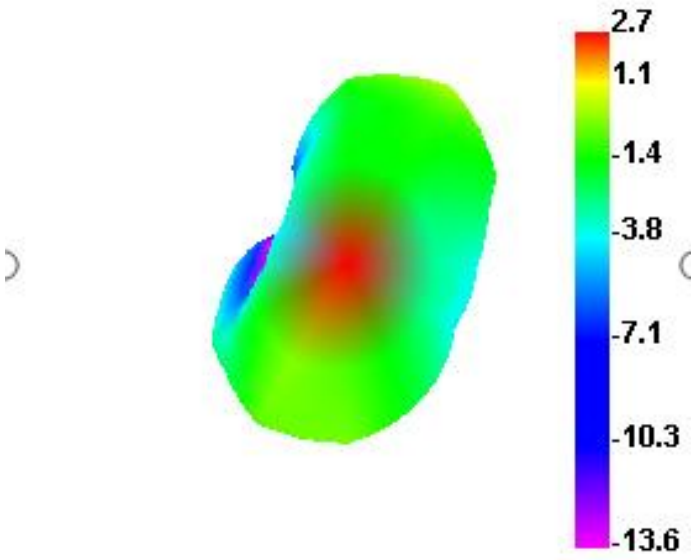


Return Loss



Smith

Directional pattern



4. Antenna Drawings

