SUNNYWAY

SWG003

PN: SW19019IB93



Sunnyway Technology

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1. Electrical Specifications

Standards	GPS/GLONASS/GALILEO/BEIDOU		
Frequency range (MHz)	1559MHz	1575MHz	1602MHz
Peak Gain (dBi)	2.13dBi	2.11dBi	2.91dBi
Average Gain (dB)	-2.03dB	-2.72dB	-2.61dB
VSWR	2.03	2.58	1.13
Return Loss	-9.35	-7.10	-24.10
Efficiency (%)	62.6%	53.4%	54.8%
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

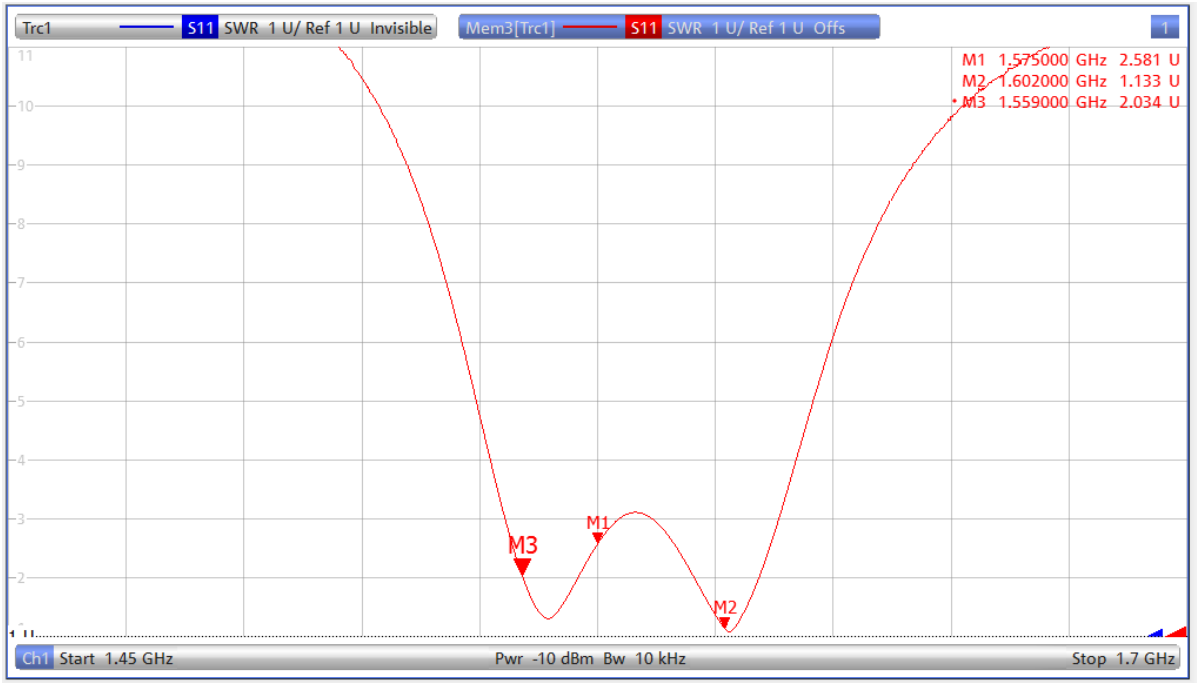
2. Mechanical and Environmental Specification

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

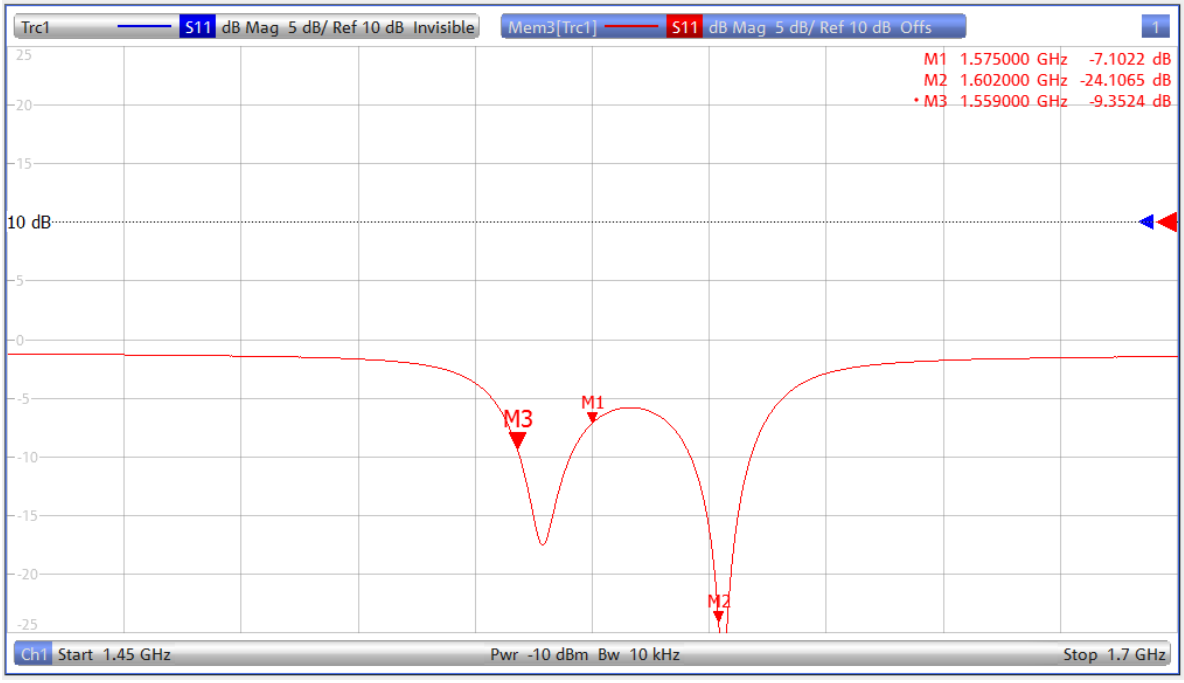
Antenna size(mm)	25mm (L) x25 mm (W) x 5.1mm (H)
Material	ceramic
Cable length(mm)	43.0mm
Operating Temperature (˚C)	-40 ˚C ~ +85 ˚C
Storage Temperature(˚C)	-40 ˚C ~ +85 ˚C

3. Antenna parameters

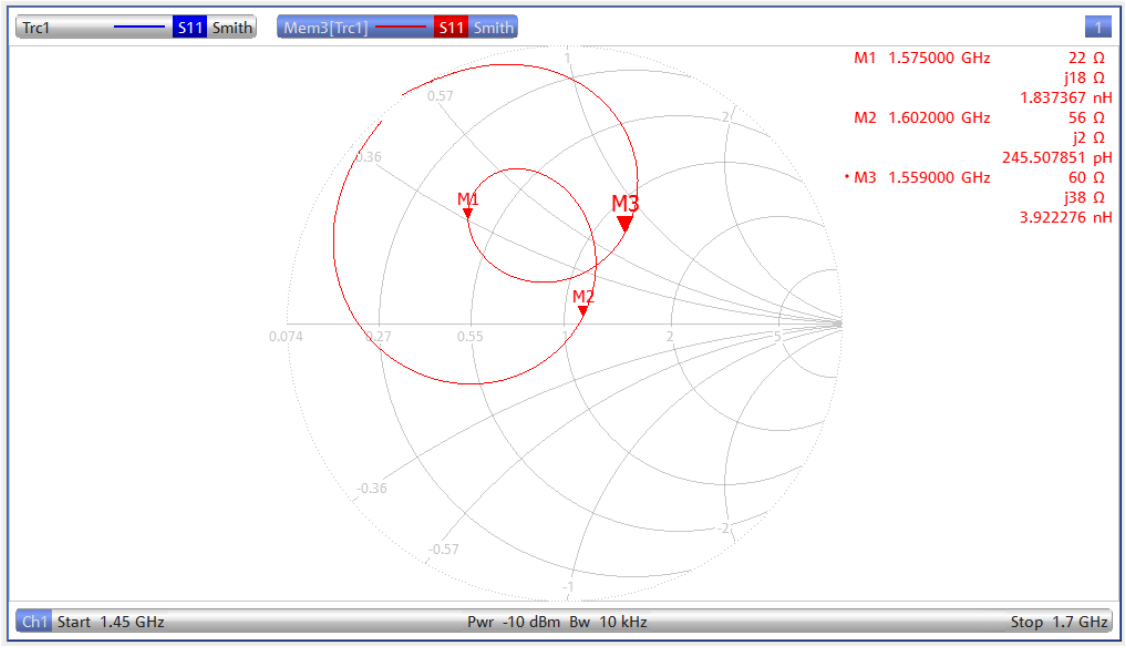
FRE（MHz）	1559	1575	1602
VSWR	2.03	2.58	1.13
Return Loss	-9.35	-7.10	-24.10
UEff (%)	62.6	53.4	54.8
PEAK Gain(dBi)	2.13	2.11	2.91



VSWR

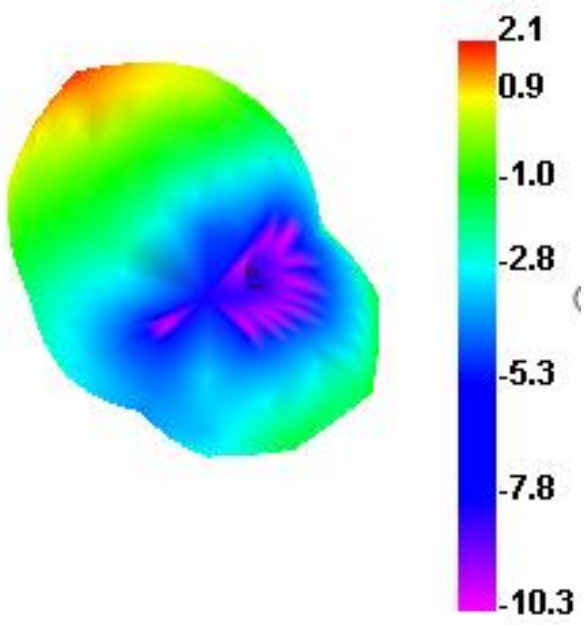


Return Loss



Smith

Directional pattern



4. Antenna Drawings

