SUNNYWAY

SWG010

PN: SW19062EB93



Sunnyway Technology

Add: Building 65-302, No.421 Hongcao Road, Xuhui District, Shanghai
Tel: +86-021-6484 2326 Fax: +86-021-6484 2328
Email: sales@sunny-way.com Web: www.sunny-way.com

1. Electrical Specifications

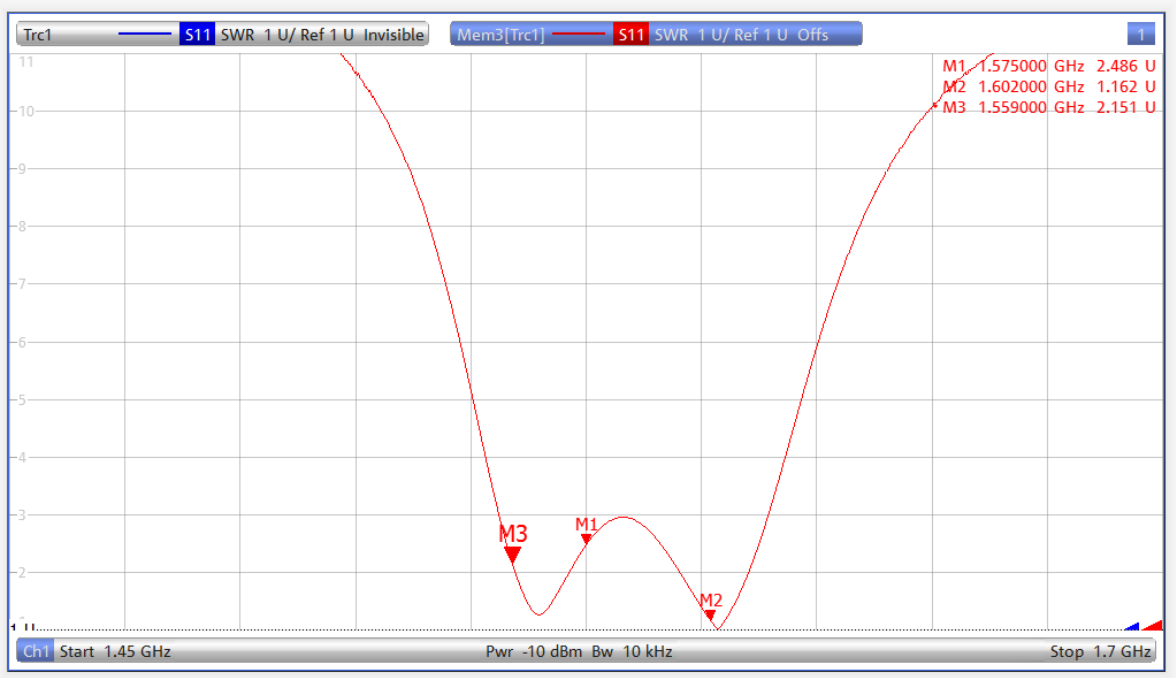
Standards	GPS/GLONASS/GALILEO/BEIDOU		
Frequency range (MHz)	1559MHz	1575MHz	1602MHz
Peak Gain (dBi)	2.23dBi	2.27dBi	2.84dBi
Average Gain (dB)	-2.12dB	-2.56dB	-2.27dB
VSWR	2.15	2.48	1.16
Return Loss	-8.74	-7.40	-22.51
Efficiency (%)	61.3%	55.4%	59.2%
Polarization mode	Circular polarization	Circular polarization	Circular polarization
Radiation pattern	Hemispherical	Hemispherical	Hemispherical
Voltage Range (V)	1.8~3.6	1.8~3.6	1.8~3.6
Active Gain (dB)	25	25	25
Noise Figure (dB)	2.5	2.5	2.5
Current Consumption (mA)	20	20	20
Power Consumption (mW)	100	100	100

2. Mechanical and Environmental Specification

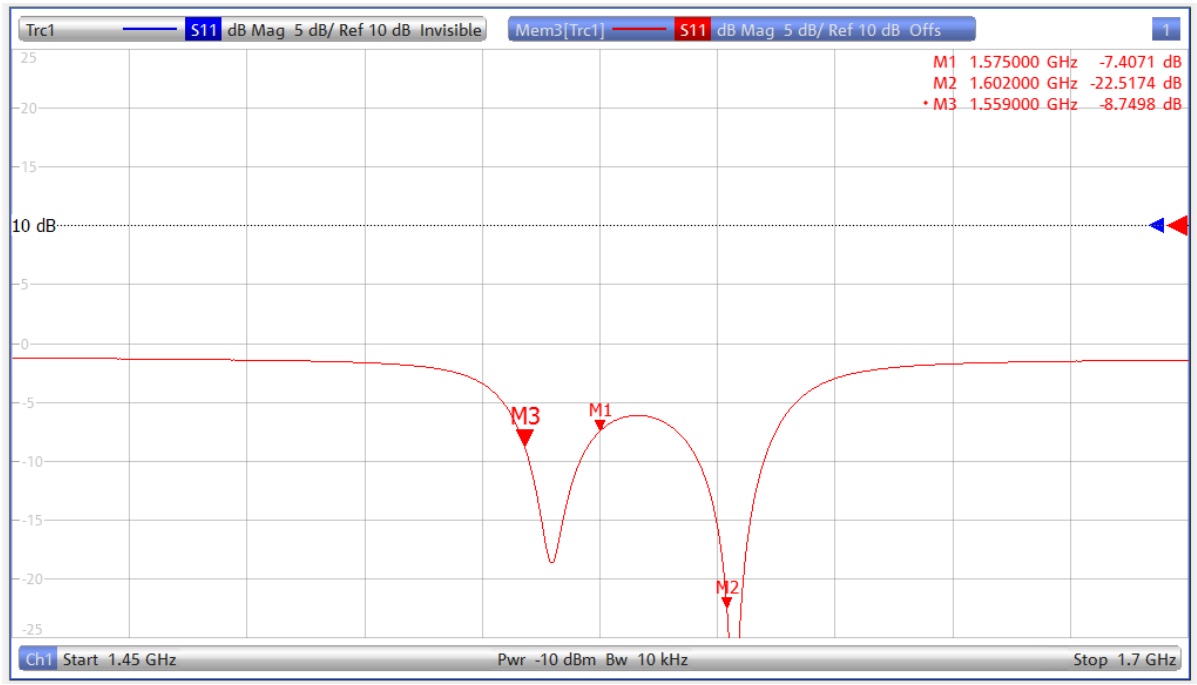
Mounting Type	Magnet + Back Glue
Connector Type	FAKRA
Antenna size(mm)	38.3mm (L) x45.54 mm (W) x 13.0mm (H)
Material	Ceramic
RG174(mm)	5m
Operating Temperature (˚C)	-40 ˚C ~ +85 ˚C
Storage Temperature(˚C)	-40 ˚C ~ +85 ˚C

3. Antenna parameters

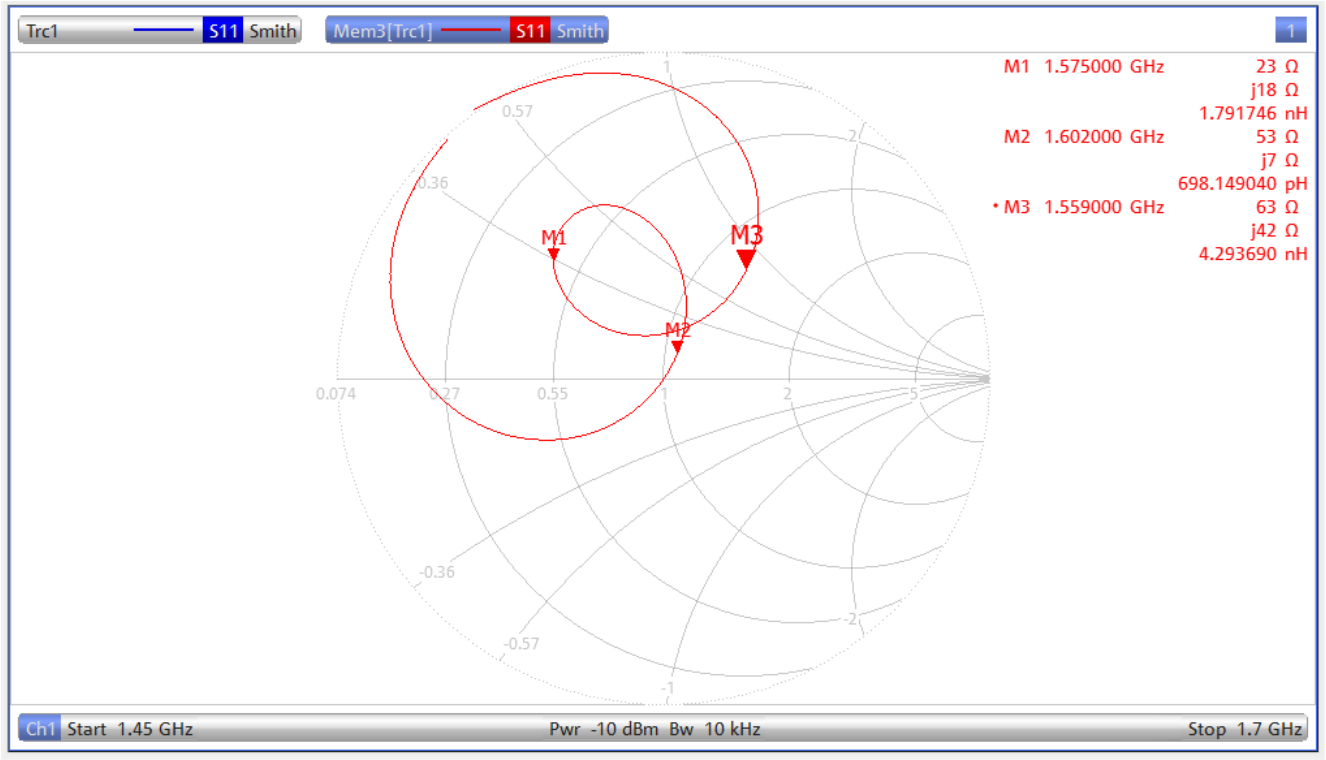
FRE（MHz）	1559	1575	1602
VSWR	2.15	2.48	1.60
Return Loss	-8.74	-7.40	-22.5
Eff (%)	61.3	55.4	59.2
PEAK Gain (dBi)	2.23	2.27	2.84



VSWR

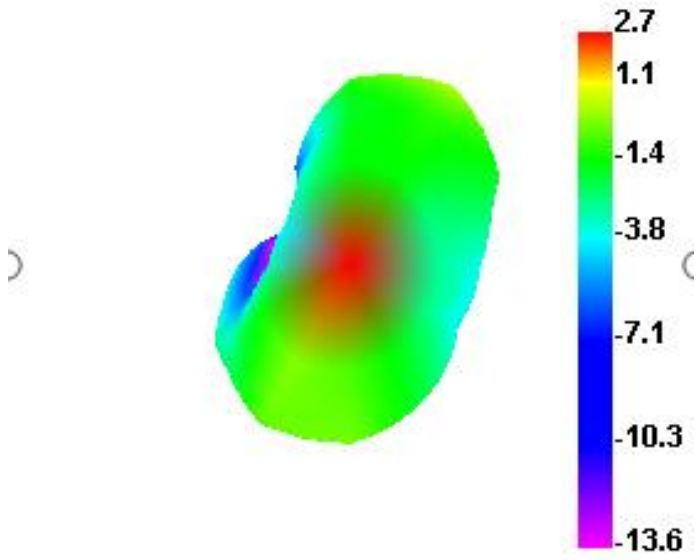


Return Loss



Smith

Directional pattern



4. Antenna Drawings

Series	Component name	Specification	Color	Quantity
1	Upper shell	ABS	black	1
2	Lower shell	ABS	black	1
3	magnet	Ø15x2	black	1
4	Back Glue	45x38x1	True color	1
5	RG174cable	RG174 cable, 5000mm	black	1
6	heat shrink tubing		black	1
7	FAKRA	Type C	blue	1

