

## SWG001

PN:SW19017IB93

### Features

- Antenna for 1575.42MHz,1602MHz.
- High gain.
- Impedance 50Ohm.

### Applications:

- Solution for global public constellations:  
GPS/GLONASS/GALILEO.

## 1. Electrical Specification

Standards	GPS/GLONASS/GALILEO	
Frequency range (MHz )	1575	1602
Peak Gain (dBi )	2.13	2.07
Average Gain (dB )	-2.89	-2.76
VSWR	1.13	1.82
Return Loss	-23.84	-10.73
Efficiency (%)	51.3%	52.9%
Polarization mode	Circular polarization	
Radiation pattern	Hemispherical	
Voltage Range (V)	1.8~3.6	
Active Gain (dB)	25	
Noise Figure (dB)	2.5	
Current Consumption (mA)	20	
Power Consumption (mW)	100	

## 2. Mechanical and Environmental Specification

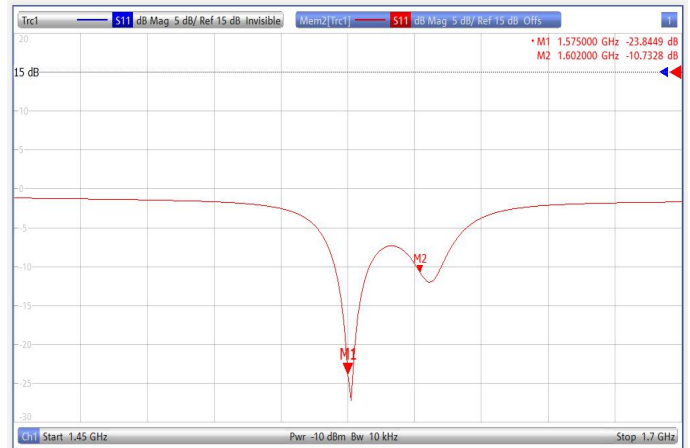
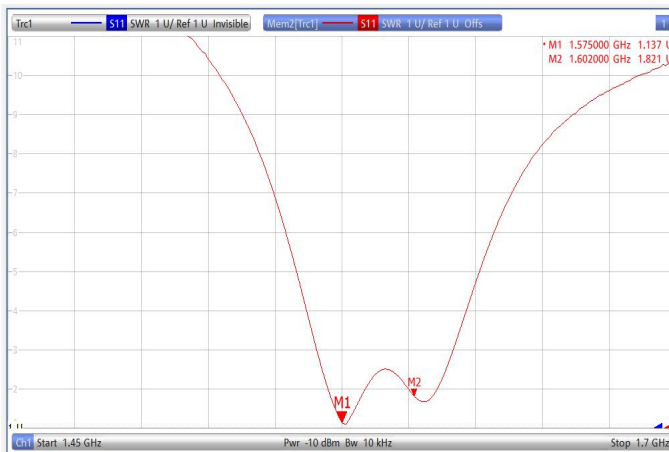
Mounting Type	Adhesive
Adhesive Type	3M9448A
Connector Type	IPEX MHF1
Antenna size(mm)	15mm (L) x15 mm (W) x 6.9mm (H)
Material	Ceramic
Cable length(mm)	17.6mm
Operating Temperature (°C)	-40 °C ~ +85 °C
Storage Temperature(°C)	-40 °C ~ +85 °C

# 3. Antenna parameters

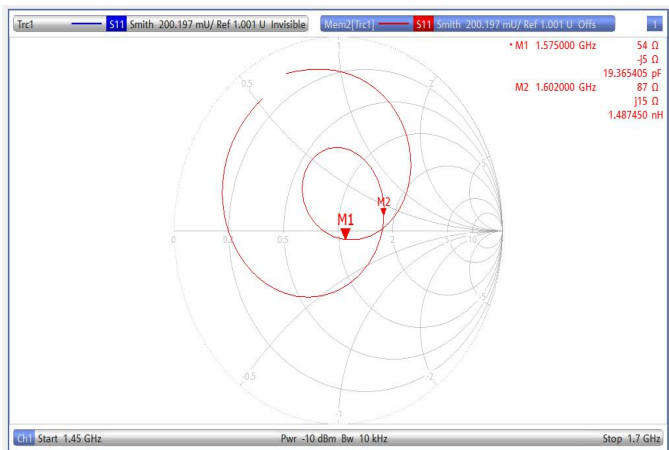
## 3.1 General Specification

FRE ( MHz )	1575	1602
VSWR	1.13	1.82
Return Loss	-23.84	-10.73
Eff(%)	51.3	52.9
PEAK Gain (dBi)	2.13	2.07

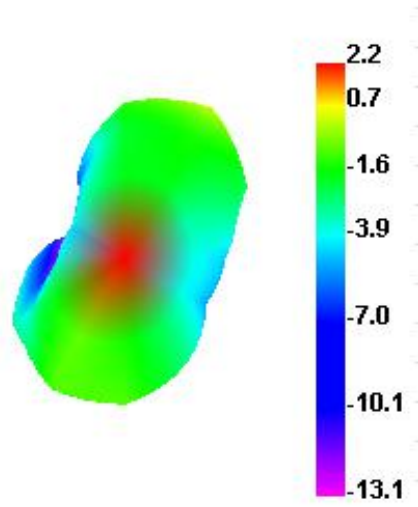
## 3.2 VSWR and Gain



## 3.3 SMITH



### 3.4 Directional Pattern



**4. Antenna Drawing(Unit:mm)**

