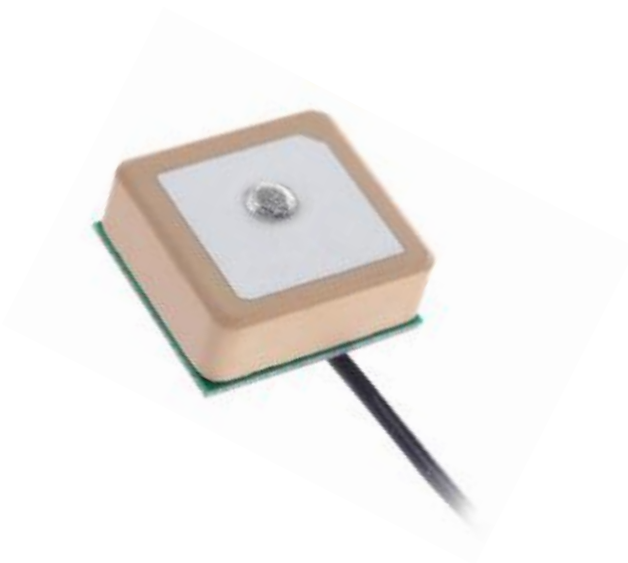




SWG001

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

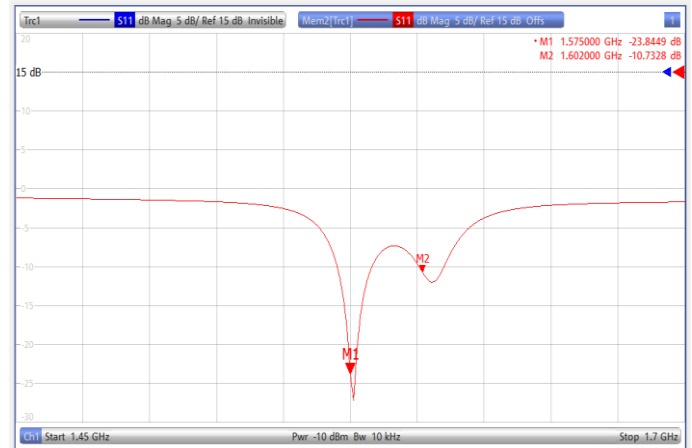
Mounting Type	Adhesive
Adhesive Type	3M9448A
Connector Type	IPEX MHF1
Antenna size(mm)	15mm (L) x15 mm (W) x 6.9mm (H)
Material	Ceramic
Cable length(mm)	17.6mm
Operating Temperature (°C)	-40 °C ~ +85 °C
Storage Temperature(°C)	-40 °C ~ +85 °C

3. Antenna parameters

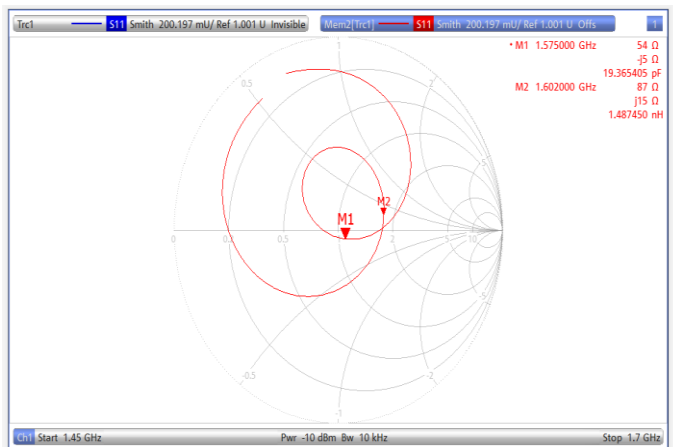
3.1 General Specification

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

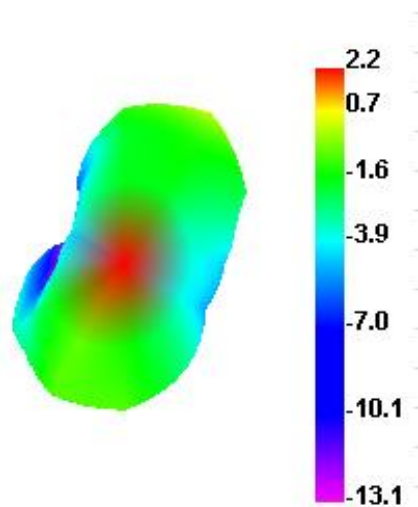
3.2 VSWR and Gain



3.3 SMITH



3.4 Directional Pattern



4. Antenna Drawing(Unit:mm)

