



SWG003

PN: SW19019IB93

Features

- Antenna for 1559 MHz, 1575.42MHz, 1602MHz.
- High gain.
- Impedance 50 Ohm.

Applications:

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

1. Electrical Specification

Standards	GPS/GLONASS/GALILEO/BEIDOU		
Frequency range (MHz)	1559	1575	1602
Peak Gain (dBi)	2.13	2.11	2.91
Average Gain (dB)	-2.03	-2.72	-2.61
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		
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

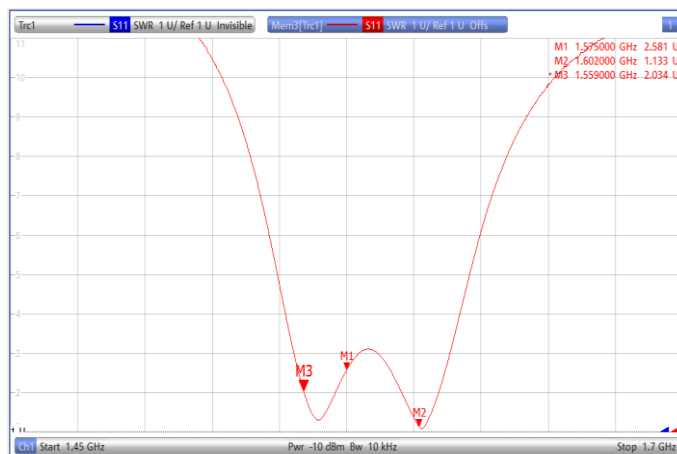
Mounting Type	Adhesive
Adhesive Type	3M9448A
Connector Type	IPEX MHF1
Antenna size(mm)	25mm (L) x25 mm (W) x 5.1mm (H)
Material	Ceramic
Cable length(mm)	43.0mm
Operating Temperature (°C)	-40 °C ~ +85 °C
Storage Temperature(°C)	-40 °C ~ +85 °C

3. Antenna parameters

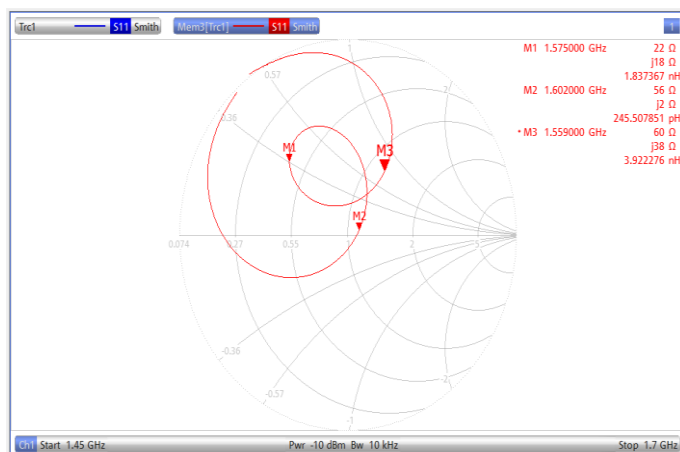
3.1 General Specification

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

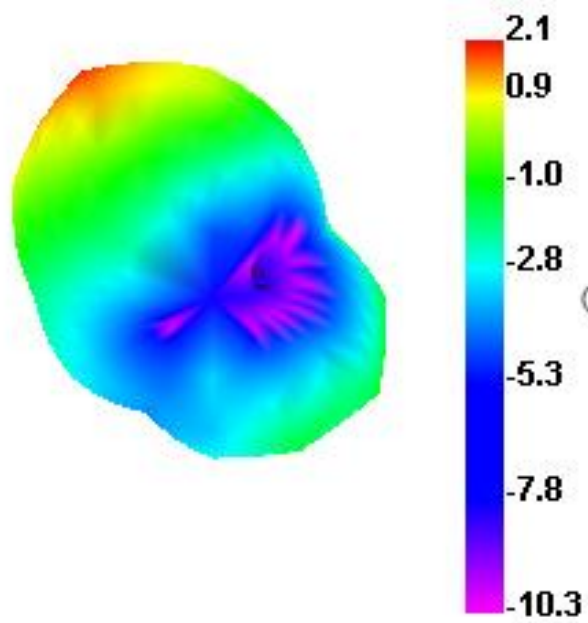
3.2 VSWR and Return loss



3.4 SMITH



3.4 Directional Pattern



4. Antenna Drawing(Unit:mm)

