



SWG010

PN:SW19062EB93

Features

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

Applications:

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

1. Electrical Specifications

Standards	GPS/GLONASS/GALILEO/BEIDOU		
Frequency range (MHz)	1559	1575	1602
Peak Gain (dBi)	2.23	2.27	2.84
Average Gain (dB)	-2.12	-2.56	-2.27
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		
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

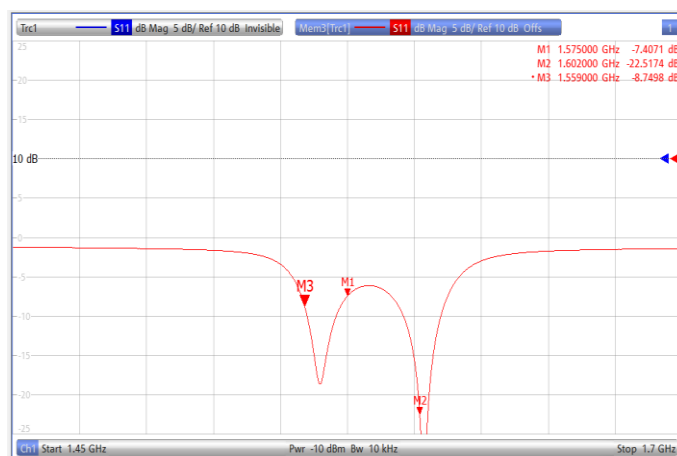
Mounting Type	Magnet + Back Glue
Connector Type	FAKRA
Antenna size(mm)	50.9mm (L) x38.6 mm (W) x 18.0mm (H)
Material	Ceramic
RG174(mm)	5000mm
Operating Temperature (°C)	-40 °C ~ +85 °C
Storage Temperature(°C)	-40 °C ~ +85 °C

3. Antenna parameters

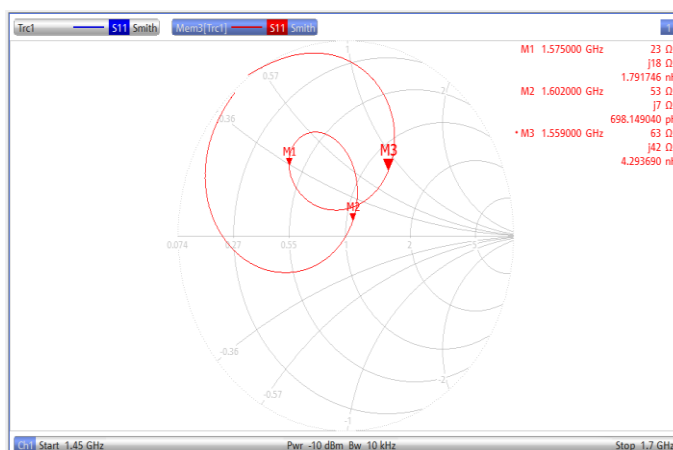
3.1 General Specification

FRE (MHz)	1559	1575	1602
VSWR	2.15	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

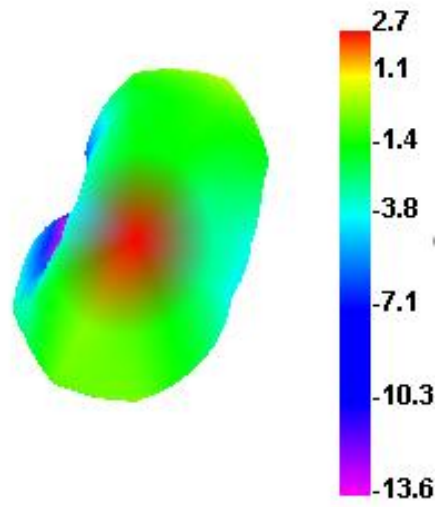
3.2 VSWR and Return Loss



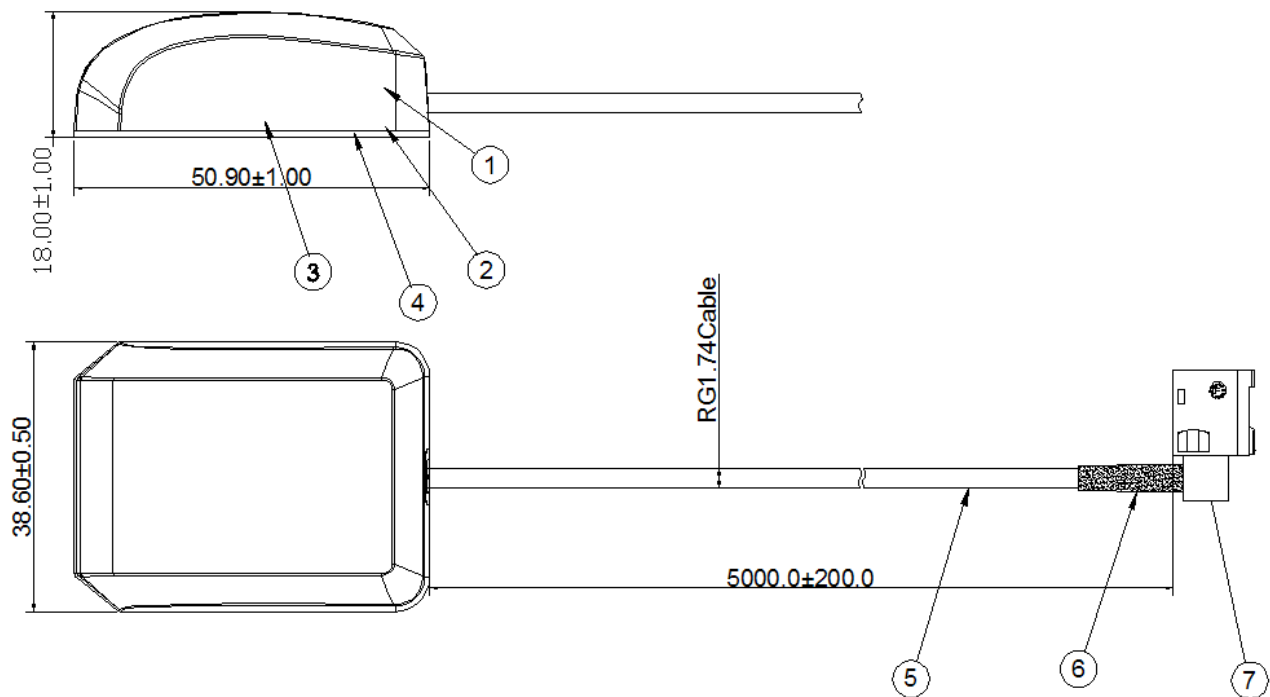
3.3 SMITH



3.4 Directional Pattern



4. Antenna Drawing(Unit:mm)



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