



Features:

- GNSS RHCP active antenna
- Beidou, GPS, Glonass
- LNA gain 30dBi
- 2pcs integrated band pass filters
- Module stage line-up:
 - Ant-Fil1-LNA-Fil2
- RoHS compliant

Applications:

- Base station timing antenna
- Navigation
- Tracking
- Location Bases Services

All dimensions are in mm / inches

Issue: 1821

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Series: Active GNSS

Description: GNSS IP67 Active 30dB RHCP
Antenna

PART NUMBER: GNSSDM26B0500

ELECTRICAL SPECIFICATIONS

Frequency	1561.098 \pm 2.046/ 1575.42 \pm 1.023/ 1602.5625 \pm 4 MHz
Nominal Impedance	50 Ω
VSWR	<2.5:1
Gain (Radiating element)	1 dBic \pm 1 dB
Gain (LNA gain)	30 dB \pm 2 dB
Polarization	RHCP
Out of Band Rejection	
698 MHz	>70 dB
960MHz	>65 dB
1710MHz	>60 dB
2170MHz	>65 dB
2400MHz	>65 dB
2700MHz	>65 dB
Noise Figure	<2.4 dB
Operating Voltage	3.3-5 Vdc \pm 0.5V
Current Consumption	<10 mA

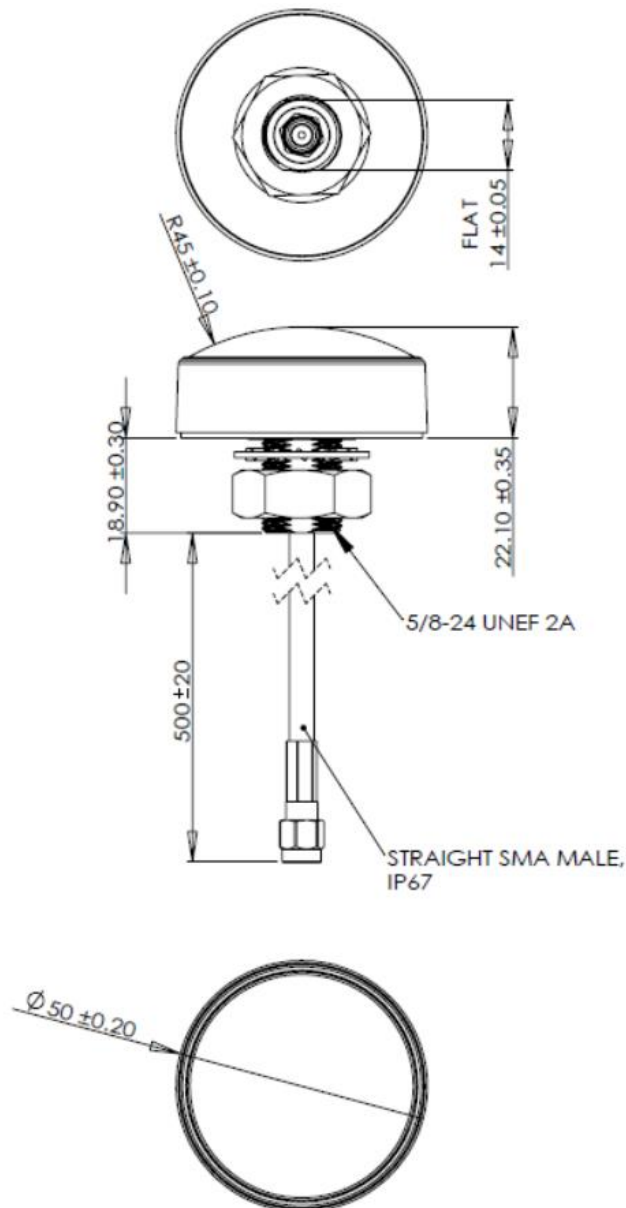
MECHANICAL SPECIFICATIONS

Plastic radome	PC/ABS
Color	Pantone 427C Gray
Ingress Protection	IP67
Weight	130g
Overall Length	541/21.3 MM/INCHES
Cable retention: Pull off	7-35 N mini
Installation torque	38-42 N/LBS
Cable Type	LMR-195 or equivalent
Connector	SMA Male

ENVIRONMENTAL SPECIFICATIONS

Operating temperature	-40/+85 ° C
Temperature shock	Per EDCS 1180288, Sec 3.3.13.2 Rate 5°C/min
Humidity	Per EDCS 1180288, Sec 3.3.13.3
Operational altitude	Per EDCS 1180288, Sec 3.3.13.4
Non operational altitude	Per EDCS 1180288, Sec 3.3.13.2
Mechanical shock	Per EDCS 1180288, Sec 3.3.13.6
Mechanical vibration	Per EDCS 1180288, Sec 3.3.13.8
Salt mist	Per EDCS 1180288, Sec 3.3.13.1
Drop test	Uncontrolled 10 times 42.0 inches

MECHANICAL DRAWING



Series: Active GNSS

Description: GNSS IP67 Active 30dB RHCP
Antenna

PART NUMBER: GNSSDM26B0500

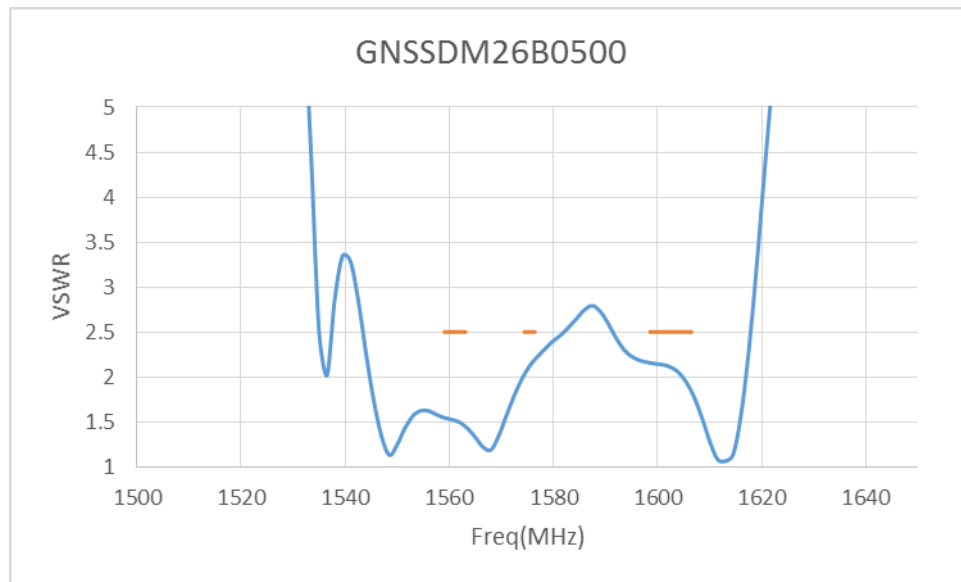
TEST SETUP

VSWR is tested in free space.

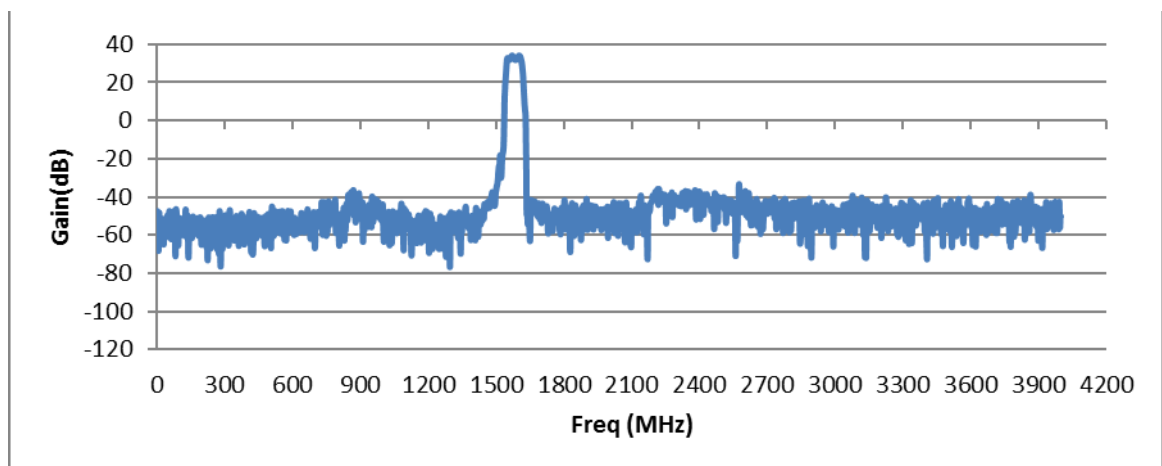
Radiation Element is test on 70X70mm ground plane.

CHARTS

VSWR



LNA Gain and out-of-band rejection



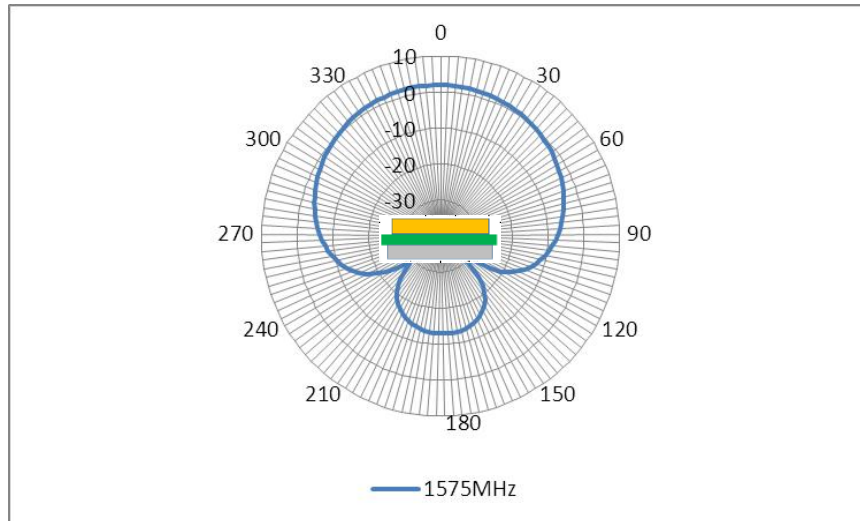
Series: Active GNSS

Description: GNSS IP67 Active 30dB RHCP
Antenna

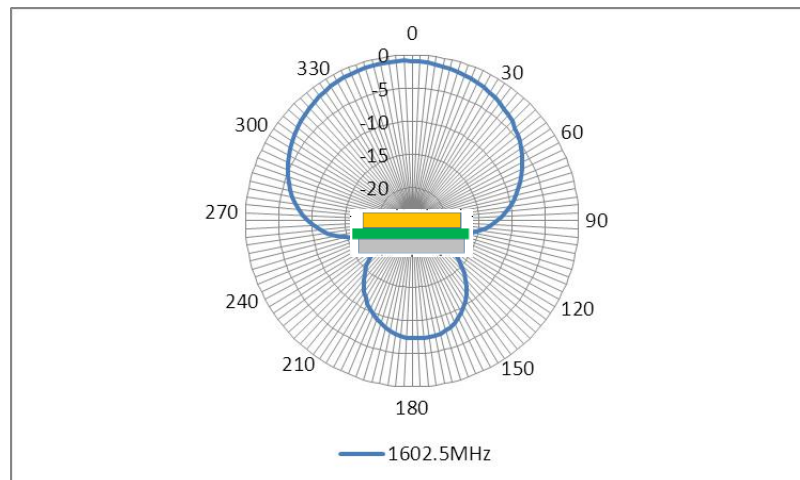
PART NUMBER: GNSSDM26B0500

CHARTS

Radiation Pattern (70mm x 70mm ground plane) GPS & Galileo



Radiation Pattern (70mm x 70mm ground plane) GLONASS



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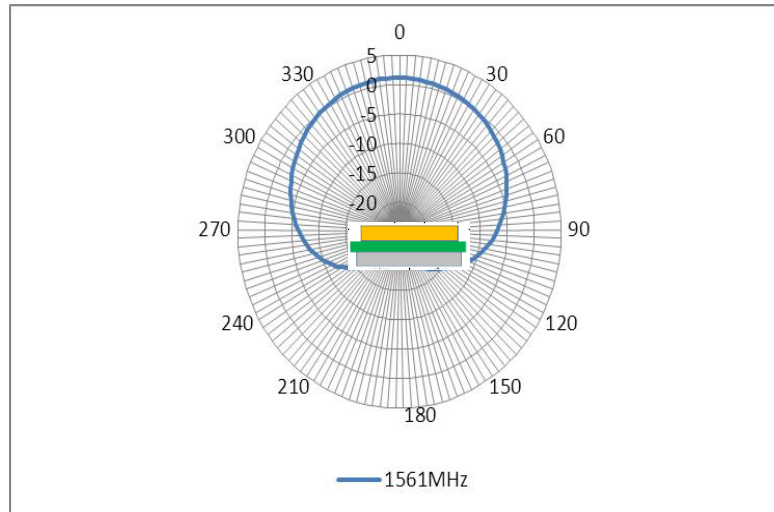
Series: Active GNSS

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CHARTS

Radiation Pattern (70mm x 70mm ground plane) BeiDou



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Series: Active GNSS

TECHNICAL DATA SHEET

Description: GNSS IP67 Active 30dB RHCP
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PACKAGING

Label on cable



1PCS/PE bag
21PCS/Carton box



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